

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ 2025

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q2841

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2841

Project ID : Former Schlumberger Site Princeton NJ 2025

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q2841-01

Client Sample Number

MW-06-6.5-081225

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: 10/27/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ 2025

Project # N/A

Order ID # Q2841

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

1 Water sample was received on 08/12/2025.

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 were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Sample #MW-06-6.5-081225 was diluted as per past history of the sample having high amounts of Trichloroethene.

Sample MW-06-6.5-081225 was diluted due to high concentration

E. Additional Comments:

This Data Package has been revised due to client ID and Data Package type changed.

This data package has been revised due to parameter added.



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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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2841

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 met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

This Data Package has been revised due to client ID and Data Package type changed.

This data package has been revised due to parameter added.

Sample #MW-06-6.5-081225 was diluted as per past history of the sample having high amounts of Trichloroethene.

Sample MW-06-6.5-081225 was diluted due to high concentration

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 #: Q2841

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: 10/27/2025

LAB CHRONICLE

OrderID:	Q2841	OrderDate:	8/13/2025 8:15:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ 2025
Contact:	Mary I. Murphy	Location:	D31,VOA Lab,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2841-01	MW-06-6.5-081225	Water	VOCMS Group3	8260-Low	08/12/25		08/19/25	08/12/25
Q2841-01DL	MW-06-6.5-081225DL	Water	VOCMS Group3	8260-Low	08/12/25		08/19/25	08/12/25

Hit Summary Sheet
SW-846

SDG No.: Q2841

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: MW-06-6.5-081225								
Q2841-01	MW-06-6.5-081225	Water	cis-1,2-Dichloroethene	950		38.0	200	ug/L
Q2841-01	MW-06-6.5-081225	Water	Trichloroethene	61500	E	18.6	200	ug/L
Q2841-01	MW-06-6.5-081225	Water	Tetrachloroethene	380		46.0	200	ug/L
			Total Voc :	62800				
			Total Concentration:	62800				
Client ID: MW-06-6.5-081225DL								
Q2841-01DL	MW-06-6.5-081225	Water	cis-1,2-Dichloroethene	910	JD	190	1000	ug/L
Q2841-01DL	MW-06-6.5-081225	Water	Trichloroethene	55200	D	93.0	1000	ug/L
Q2841-01DL	MW-06-6.5-081225	Water	Tetrachloroethene	340	JD	230	1000	ug/L
			Total Voc :	56500				
			Total Concentration:	56500				



QC SUMMARY

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Surrogate Summary

SDG No.: **Q2841**

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

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2841-01	MW-06-6.5-081225	1,2-Dichloroethane-d4	50	56.9	114		70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102		70 (75)	130 (124)
		Toluene-d8	50	49.3	99		70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.3	111		70 (77)	130 (121)
Q2841-01DL	MW-06-6.5-081225DL	1,2-Dichloroethane-d4	50	60.2	120		70 (74)	130 (125)
		Dibromofluoromethane	50	52.3	105		70 (75)	130 (124)
		Toluene-d8	50	50.6	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	58.0	116		70 (77)	130 (121)
VX0819WBL01	VX0819WBL01	1,2-Dichloroethane-d4	50	57.3	114		70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102		70 (75)	130 (124)
		Toluene-d8	50	49.5	99		70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.1	112		70 (77)	130 (121)
VX0819WBS01	VX0819WBS01	1,2-Dichloroethane-d4	50	54.3	109		70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104		70 (75)	130 (124)
		Toluene-d8	50	50.5	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.8	106		70 (77)	130 (121)
VX0819WBSD0	VX0819WBSD01	1,2-Dichloroethane-d4	50	54.2	108		70 (74)	130 (125)
		Dibromofluoromethane	50	52.0	104		70 (75)	130 (124)
		Toluene-d8	50	50.7	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.7	107		70 (77)	130 (121)

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() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2841</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VX047403.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0819WBS01	Vinyl chloride	20	16.6	ug/L	83			70 (65)	130 (117)	
	1,1-Dichloroethene	20	17.3	ug/L	86			70 (74)	130 (110)	
	1,1-Dichloroethane	20	18.6	ug/L	93			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	18.5	ug/L	93			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			70 (80)	130 (108)	
	Benzene	20	18.0	ug/L	90			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.7	ug/L	94			70 (80)	130 (115)	
	Trichloroethene	20	17.2	ug/L	86			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			70 (83)	130 (112)	
	Tetrachloroethene	20	16.7	ug/L	84			70 (67)	130 (123)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2841</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VX047405.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0819WBSD01	Vinyl chloride	20	16.4	ug/L	82	1		70 (65)	130 (117)	20 (19)
	1,1-Dichloroethene	20	16.5	ug/L	83	4		70 (74)	130 (110)	20 (20)
	1,1-Dichloroethane	20	17.9	ug/L	90	3		70 (78)	130 (112)	20 (20)
	cis-1,2-Dichloroethene	20	17.8	ug/L	89	4		70 (77)	130 (110)	20 (20)
	1,1,1-Trichloroethane	20	17.5	ug/L	88	2		70 (80)	130 (108)	20 (20)
	Benzene	20	17.6	ug/L	88	2		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	19.0	ug/L	95	1		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	17.1	ug/L	86	0		70 (77)	130 (113)	20 (15)
	1,1,2-Trichloroethane	20	19.2	ug/L	96	2		70 (83)	130 (112)	20 (20)
	Tetrachloroethene	20	16.4	ug/L	82	2		70 (67)	130 (123)	20 (15)

() = LABORATORY INHOUSE LIMIT

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0819WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q2841

Lab File ID: VX047402.D

Lab Sample ID: VX0819WBL01

Date Analyzed: 08/19/2025

Time Analyzed: 10:55

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
VX0819WBS01	VX0819WBS01	VX047403.D	08/19/2025
VX0819WBSD01	VX0819WBSD01	VX047405.D	08/19/2025
MW-06-6.5-081225	Q2841-01	VX047410.D	08/19/2025
MW-06-6.5-081225DL	Q2841-01DL	VX047411.D	08/19/2025

COMMENTS: _____



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q2841

Lab File ID: VX047347.D

BFB Injection Date: 08/15/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:28

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	19.3
75	30.0 - 60.0% of mass 95	51.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	6.1 (8.2) 1
176	95.0 - 101.0% of mass 174	71.9 (96.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VX047349.D	08/15/2025	09:40
VSTDIC020	VSTDIC020	VX047350.D	08/15/2025	10:01
VSTDIC050	VSTDIC050	VX047351.D	08/15/2025	10:22
VSTDIC100	VSTDIC100	VX047352.D	08/15/2025	10:43
VSTDIC150	VSTDIC150	VX047353.D	08/15/2025	11:05
VSTDIC001	VSTDIC001	VX047356.D	08/15/2025	12:30



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VX047399.D
Instrument ID: MSVOA_X
GC Column: DB-624UI ID: 0.18 (mm)

Contract: JACO05
SDG NO.: Q2841
BFB Injection Date: 08/19/2025
BFB Injection Time: 08:38
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19
75	30.0 - 60.0% of mass 95	50.5
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	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72.1
175	5.0 - 9.0% of mass 174	5.3 (7.4) 1
176	95.0 - 101.0% of mass 174	70.3 (97.6) 1
177	5.0 - 9.0% of mass 176	5 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047400.D	08/19/2025	09:37
VX0819WBL01	VX0819WBL01	VX047402.D	08/19/2025	10:55
VX0819WBS01	VX0819WBS01	VX047403.D	08/19/2025	11:55
VX0819WBSD01	VX0819WBSD01	VX047405.D	08/19/2025	12:37
MW-06-6.5-081225	Q2841-01	VX047410.D	08/19/2025	14:29
MW-06-6.5-081225DL	Q2841-01DL	VX047411.D	08/19/2025	14:50

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05
Lab Code: ACE SDG NO.: Q2841
Lab File ID: VX047400.D Date Analyzed: 08/19/2025
Instrument ID: MSVOA_X Time Analyzed: 09:37
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	203851	5.56	365078	6.76	334051	10.06
UPPER LIMIT	407702	6.062	730156	7.263	668102	10.555
LOWER LIMIT	101926	5.062	182539	6.263	167026	9.555
EPA SAMPLE NO.						
MW-06-6.5-081225	210753	5.57	423890	6.77	415490	10.06
MW-06-6.5-081225DL	214007	5.57	430805	6.77	440552	10.06
VX0819WBL01	204625	5.56	410508	6.76	416324	10.06
VX0819WBS01	225610	5.56	400778	6.76	370967	10.05
VX0819WBSD01	228746	5.57	395063	6.77	371284	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: Alliance Contract: JACO05
 Lab Code: ACE SDG NO.: Q2841
 Lab File ID: VX047400.D Date Analyzed: 08/19/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:37
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	167955	12.018				
UPPER LIMIT	335910	12.518				
LOWER LIMIT	83977.5	11.518				
EPA SAMPLE NO.						
MW-06-6.5-081225	214606	12.02				
MW-06-6.5-081225DL	231200	12.02				
VX0819WBL01	212865	12.02				
VX0819WBS01	189862	12.02				
VX0819WBSD01	189413	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

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Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger Site Princeton NJ 2025
 Client Sample ID: MW-06-6.5-081225
 Lab Sample ID: Q2841-01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected: 08/12/25
 Date Received: 08/12/25
 SDG No.: Q2841
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	52.0	U	200	52.0	200	ug/L	08/19/25 14:29	VX081925
75-35-4	1,1-Dichloroethene	46.0	U	200	46.0	200	ug/L	08/19/25 14:29	VX081925
75-34-3	1,1-Dichloroethane	46.0	U	200	46.0	200	ug/L	08/19/25 14:29	VX081925
156-59-2	cis-1,2-Dichloroethene	950		200	38.0	200	ug/L	08/19/25 14:29	VX081925
71-55-6	1,1,1-Trichloroethane	40.0	U	200	40.0	200	ug/L	08/19/25 14:29	VX081925
71-43-2	Benzene	30.0	U	200	30.0	200	ug/L	08/19/25 14:29	VX081925
107-06-2	1,2-Dichloroethane	44.0	U	200	44.0	200	ug/L	08/19/25 14:29	VX081925
79-01-6	Trichloroethene	61500	E	200	18.6	200	ug/L	08/19/25 14:29	VX081925
79-00-5	1,1,2-Trichloroethane	42.0	U	200	42.0	200	ug/L	08/19/25 14:29	VX081925
127-18-4	Tetrachloroethene	380		200	46.0	200	ug/L	08/19/25 14:29	VX081925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.9			70 (74) - 130 (125)	114%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.9			70 (75) - 130 (124)	102%	SPK: 50		
2037-26-5	Toluene-d8	49.3			70 (86) - 130 (113)	99%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.3			70 (77) - 130 (121)	111%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	211000							
540-36-3	1,4-Difluorobenzene	424000							
3114-55-4	Chlorobenzene-d5	415000							
3855-82-1	1,4-Dichlorobenzene-d4	215000							

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\VX081925\
 Data File : VX047410.D
 Acq On : 19 Aug 2025 14:29
 Operator : JC/MD
 Sample : Q2841-01 200X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-06-6.5-081225

Quant Time: Aug 19 14:46:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

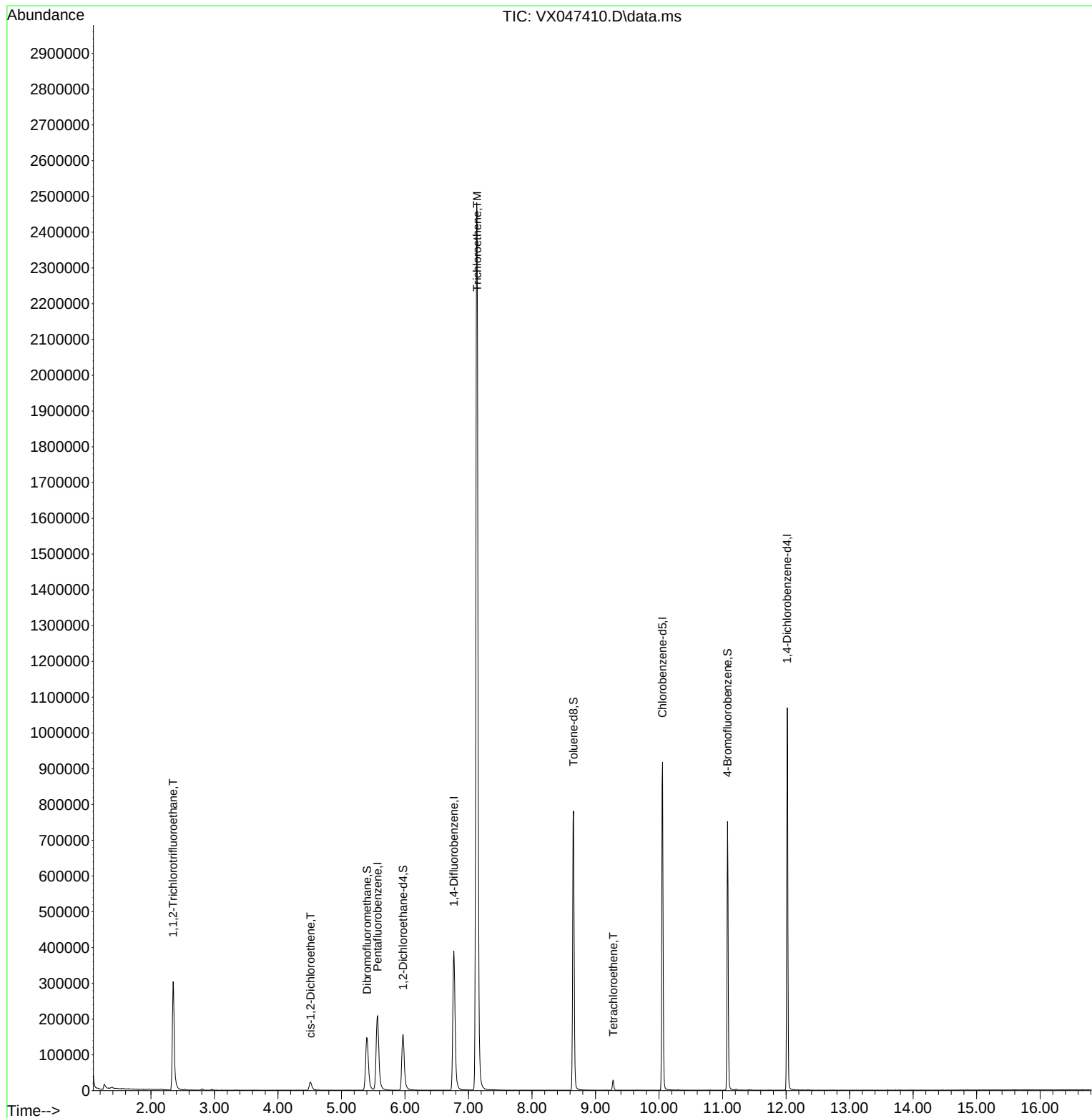
Internal Standards						
1) Pentafluorobenzene	5.568	168	210753	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	423890	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	415490	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	214606	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	167838	56.903	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	113.800%
35) Dibromofluoromethane	5.404	113	140086	50.920	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.840%
50) Toluene-d8	8.653	98	484493	49.272	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.540%
62) 4-Bromofluorobenzene	11.079	95	200479	55.250	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	110.500%
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.349	101	140414	53.946	ug/l	99
27) cis-1,2-Dichloroethene	4.513	96	15656	4.773	ug/l	93
44) Trichloroethene	7.135	130	1023656	307.552	ug/l	98
64) Tetrachloroethene	9.281	164	5773	1.921	ug/l #	89

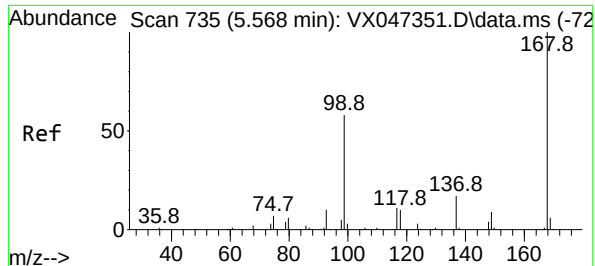
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047410.D
Acq On : 19 Aug 2025 14:29
Operator : JC/MD
Sample : Q2841-01 200X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-081225

Quant Time: Aug 19 14:46:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

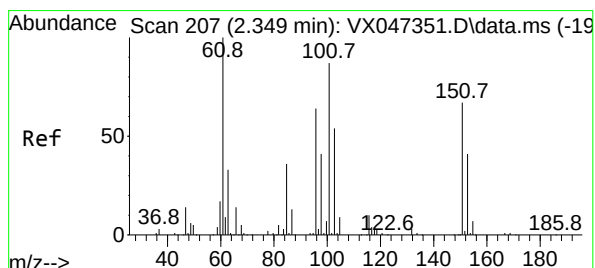
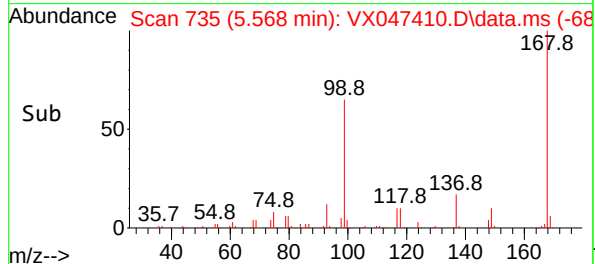
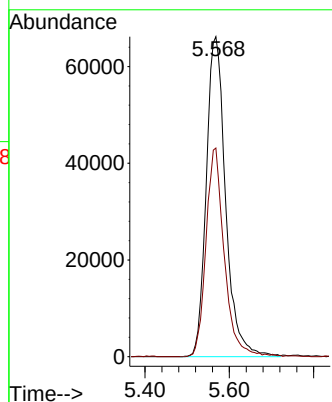
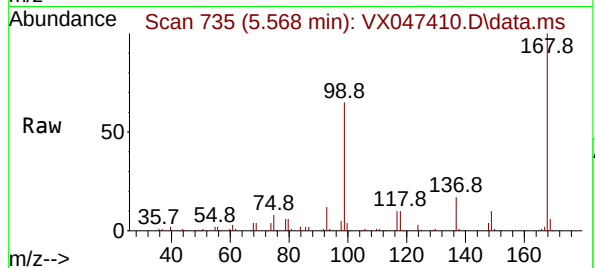




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047410.D
Acq: 19 Aug 2025 14:29

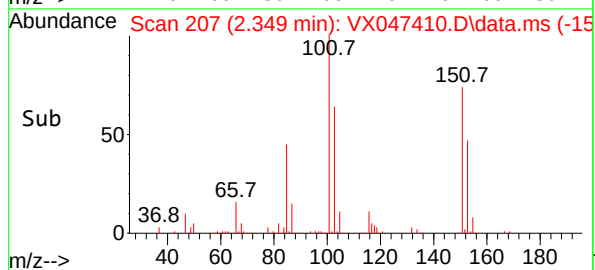
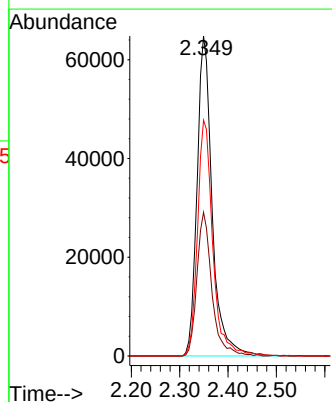
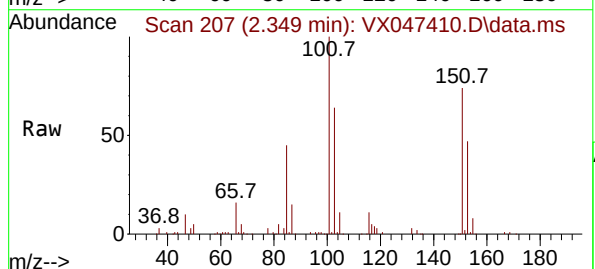
Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-081225

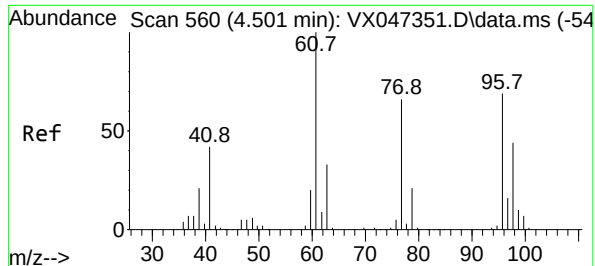
Tgt Ion:168 Resp: 210753
Ion Ratio Lower Upper
168 100
99 65.2 47.9 71.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.946 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047410.D
Acq: 19 Aug 2025 14:29

Tgt Ion:101 Resp: 140414
Ion Ratio Lower Upper
101 100
85 44.4 34.3 51.5
151 74.6 59.2 88.8





#27

cis-1,2-Dichloroethene

Concen: 4.773 ug/l

RT: 4.513 min Scan# 50

Delta R.T. 0.012 min

Lab File: VX047410.D

Acq: 19 Aug 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-081225

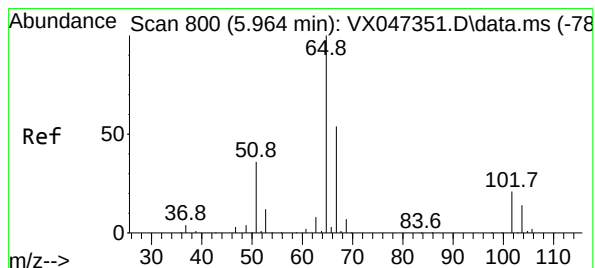
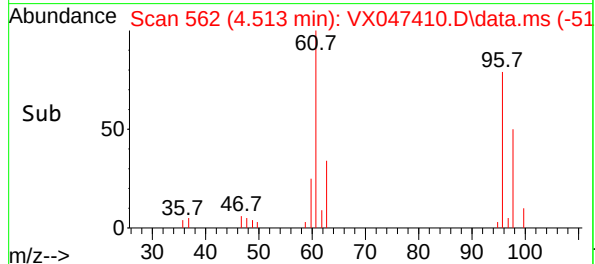
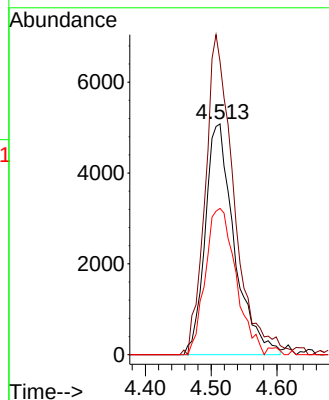
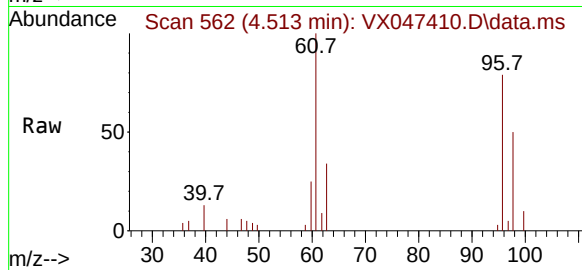
Tgt Ion: 96 Resp: 15656

Ion Ratio Lower Upper

96 100

61 136.3 0.0 296.6

98 66.4 0.0 130.4



#33

1,2-Dichloroethane-d4

Concen: 56.903 ug/l

RT: 5.971 min Scan# 801

Delta R.T. 0.006 min

Lab File: VX047410.D

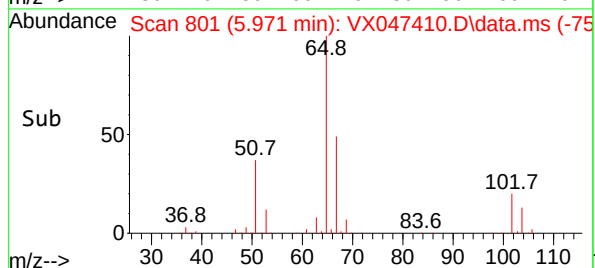
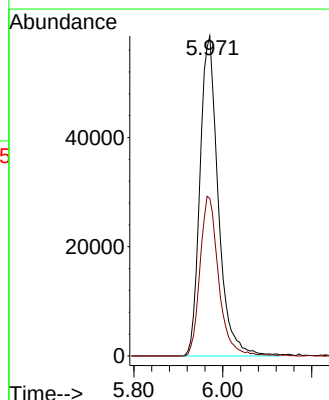
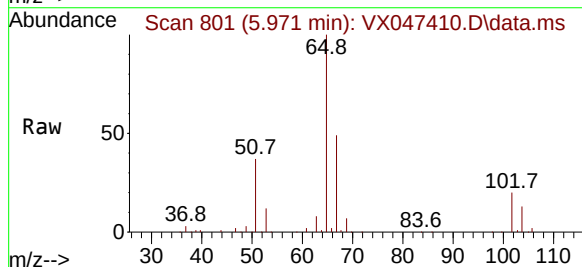
Acq: 19 Aug 2025 14:29

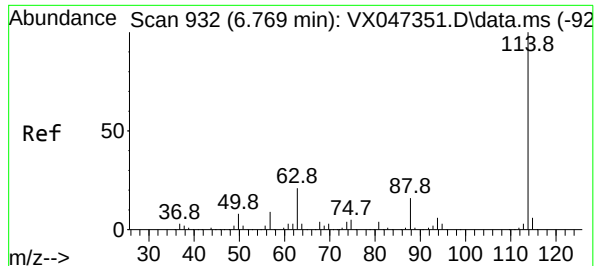
Tgt Ion: 65 Resp: 167838

Ion Ratio Lower Upper

65 100

67 50.7 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047410.D

Acq: 19 Aug 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-081225

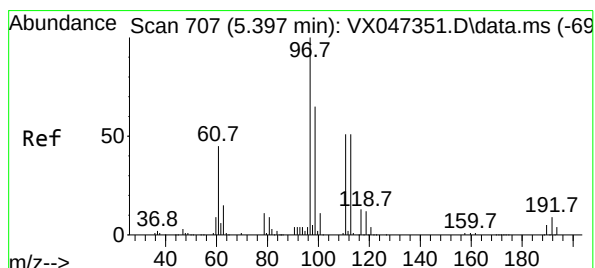
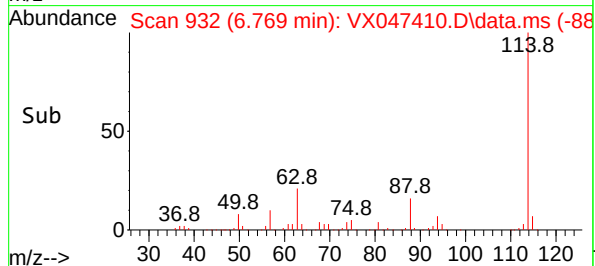
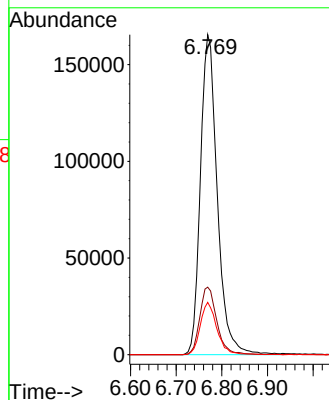
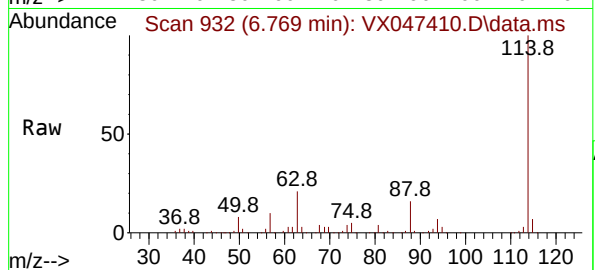
Tgt Ion:114 Resp: 423890

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.4

88 16.4 0.0 33.0



#35

Dibromofluoromethane

Concen: 50.920 ug/l

RT: 5.404 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX047410.D

Acq: 19 Aug 2025 14:29

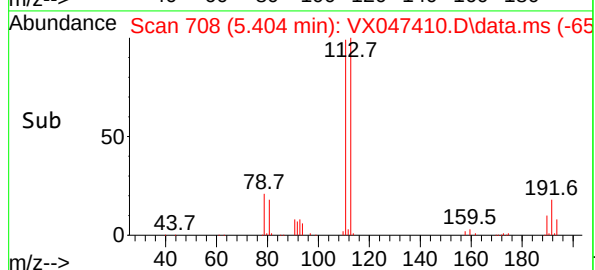
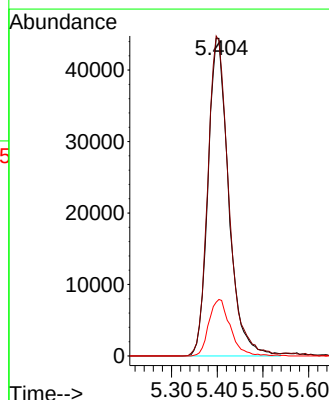
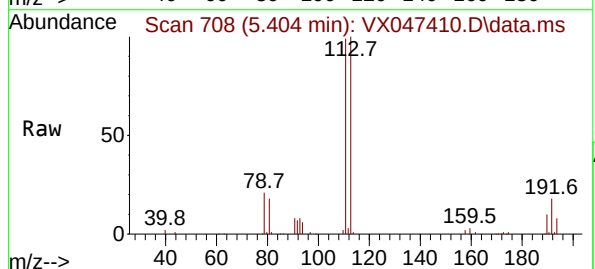
Tgt Ion:113 Resp: 140086

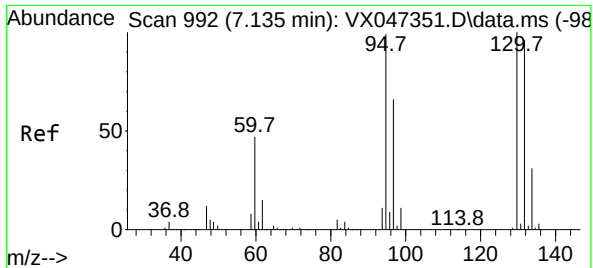
Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.2

192 18.4 14.1 21.1





#44

Trichloroethene

Concen: 307.552 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX047410.D

Acq: 19 Aug 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

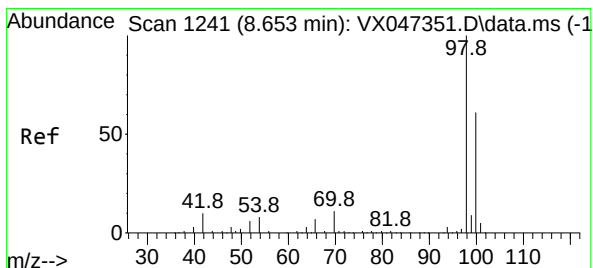
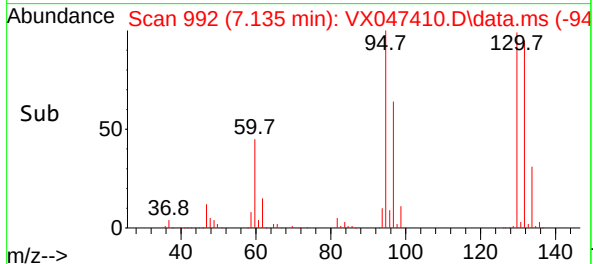
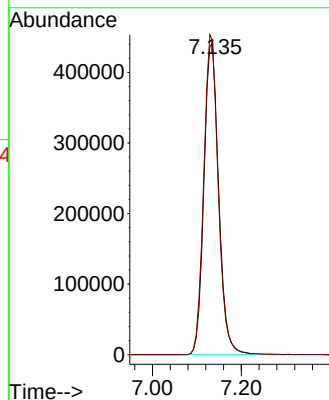
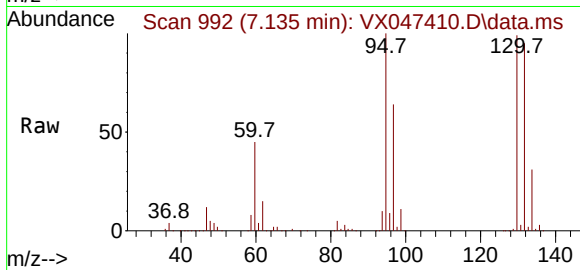
MW-06-6.5-081225

Tgt Ion:130 Resp: 1023656

Ion Ratio Lower Upper

130 100

95 101.1 0.0 198.6



#50

Toluene-d8

Concen: 49.272 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047410.D

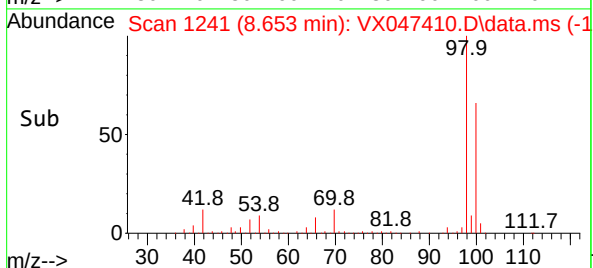
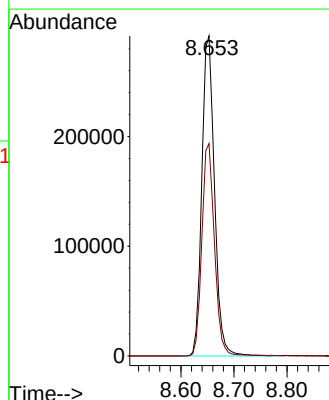
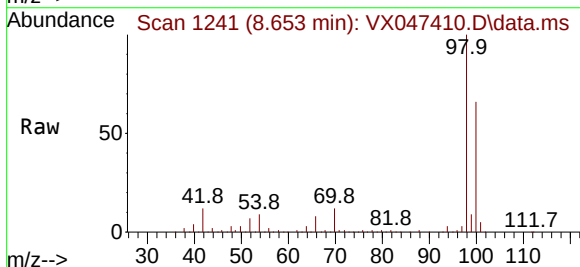
Acq: 19 Aug 2025 14:29

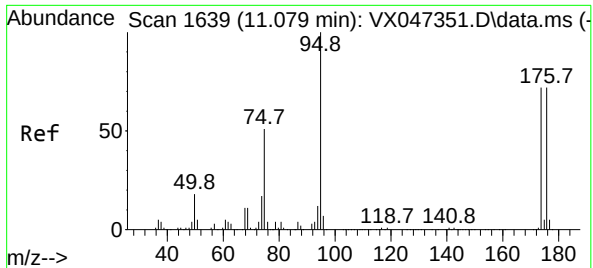
Tgt Ion: 98 Resp: 484493

Ion Ratio Lower Upper

98 100

100 66.1 53.9 80.9

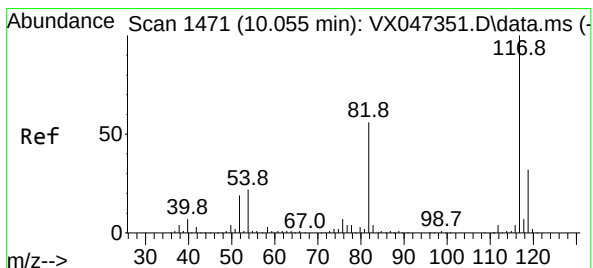
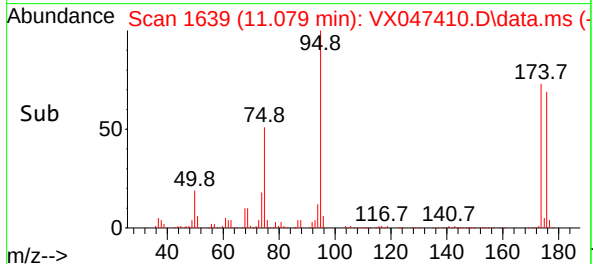
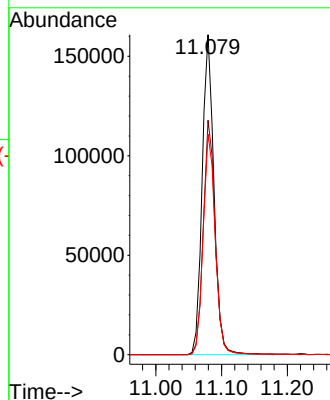
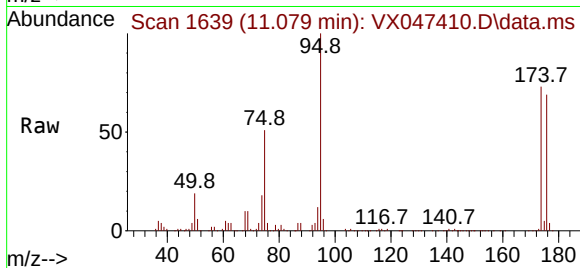




#62
4-Bromofluorobenzene
Concen: 55.250 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047410.D
Acq: 19 Aug 2025 14:29

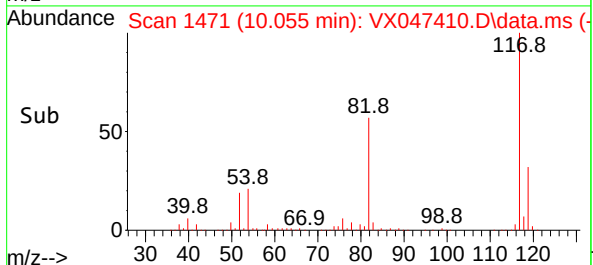
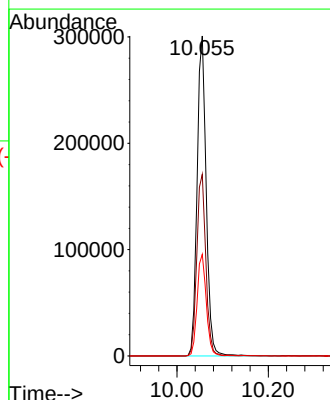
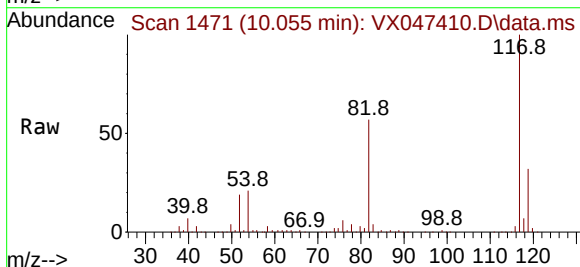
Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-081225

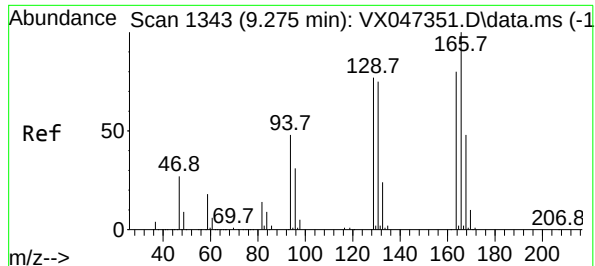
Tgt Ion: 95 Resp: 200479
Ion Ratio Lower Upper
95 100
174 74.0 0.0 148.0
176 70.7 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047410.D
Acq: 19 Aug 2025 14:29

Tgt Ion: 117 Resp: 415490
Ion Ratio Lower Upper
117 100
82 56.8 45.0 67.4
119 31.8 25.8 38.8





#64

Tetrachloroethene

Concen: 1.921 ug/l

RT: 9.281 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047410.D

Acq: 19 Aug 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-081225

Tgt Ion:164 Resp: 5773

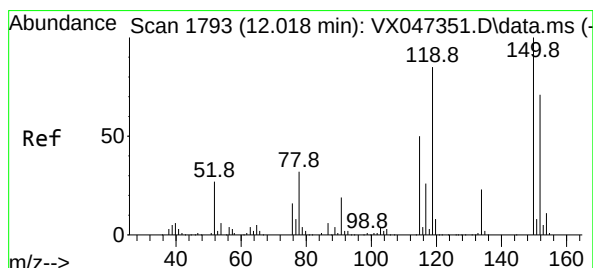
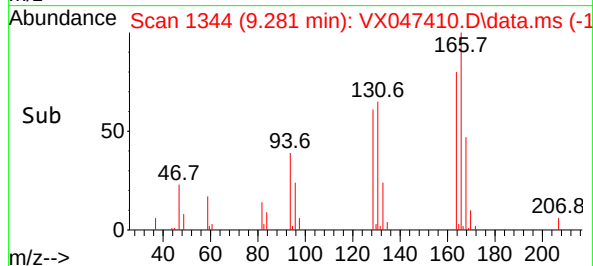
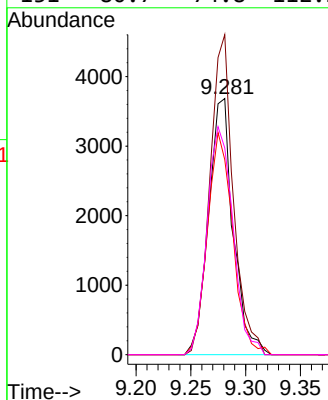
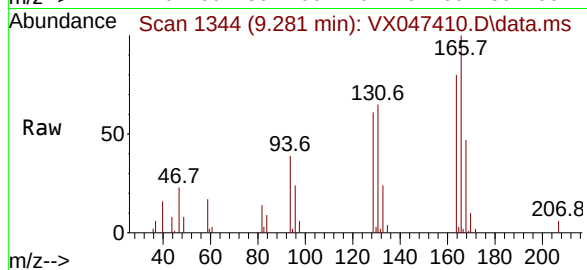
Ion Ratio Lower Upper

164 100

166 127.0 100.3 150.5

129 76.1 77.7 116.5#

131 80.7 74.8 112.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047410.D

Acq: 19 Aug 2025 14:29

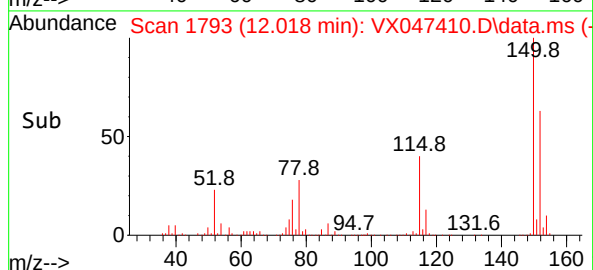
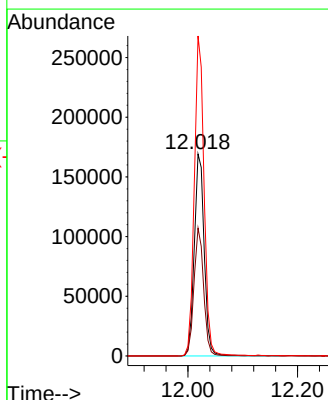
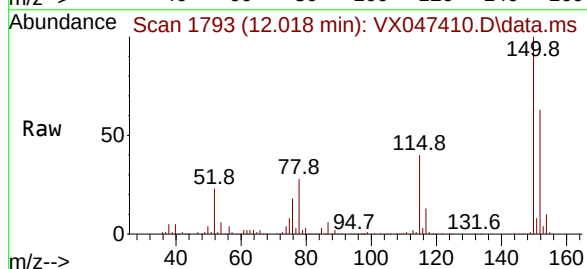
Tgt Ion:152 Resp: 214606

Ion Ratio Lower Upper

152 100

115 61.7 44.6 133.8

150 155.0 0.0 349.8



Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger Site Princeton NJ 2025
 Client Sample ID: MW-06-6.5-081225DL
 Lab Sample ID: Q2841-01DL
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 08/12/25
 Date Received: 08/12/25
 SDG No.: Q2841
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	260	UD	1000	260	1000	ug/L	08/19/25 14:50	VX081925
75-35-4	1,1-Dichloroethene	230	UD	1000	230	1000	ug/L	08/19/25 14:50	VX081925
75-34-3	1,1-Dichloroethane	230	UD	1000	230	1000	ug/L	08/19/25 14:50	VX081925
156-59-2	cis-1,2-Dichloroethene	910	JD	1000	190	1000	ug/L	08/19/25 14:50	VX081925
71-55-6	1,1,1-Trichloroethane	200	UD	1000	200	1000	ug/L	08/19/25 14:50	VX081925
71-43-2	Benzene	150	UD	1000	150	1000	ug/L	08/19/25 14:50	VX081925
107-06-2	1,2-Dichloroethane	220	UD	1000	220	1000	ug/L	08/19/25 14:50	VX081925
79-01-6	Trichloroethene	55200	D	1000	93.0	1000	ug/L	08/19/25 14:50	VX081925
79-00-5	1,1,2-Trichloroethane	210	UD	1000	210	1000	ug/L	08/19/25 14:50	VX081925
127-18-4	Tetrachloroethene	340	JD	1000	230	1000	ug/L	08/19/25 14:50	VX081925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.2			70 (74) - 130 (125)	120%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.3			70 (75) - 130 (124)	105%	SPK: 50		
2037-26-5	Toluene-d8	50.6			70 (86) - 130 (113)	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	58.0			70 (77) - 130 (121)	116%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	214000							
540-36-3	1,4-Difluorobenzene	431000							
3114-55-4	Chlorobenzene-d5	441000							
3855-82-1	1,4-Dichlorobenzene-d4	231000							

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\VX081925\
 Data File : VX047411.D
 Acq On : 19 Aug 2025 14:50
 Operator : JC/MD
 Sample : Q2841-01DL 1000X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-06-6.5-081225DL

Quant Time: Aug 20 01:27:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

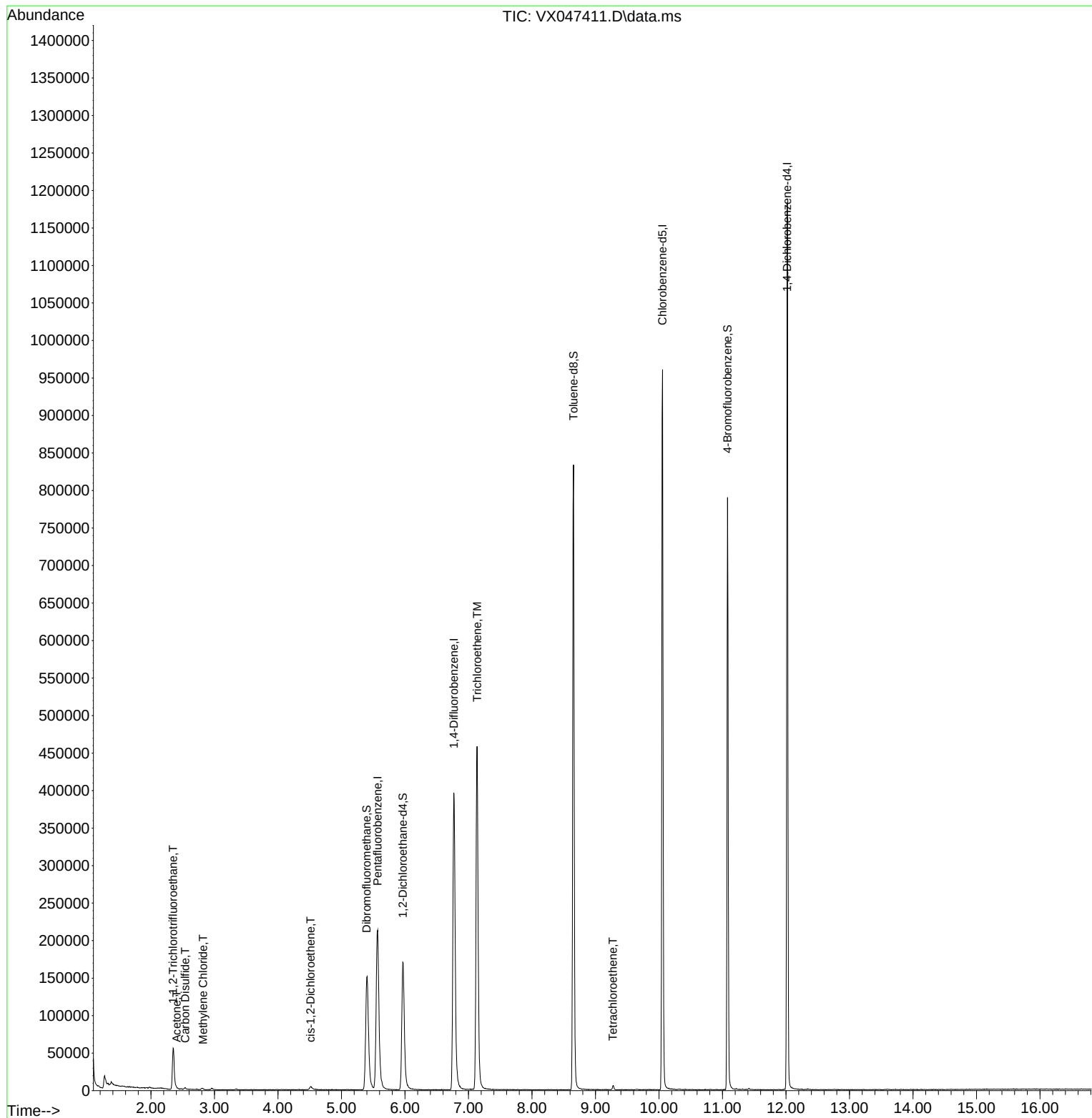
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	214007	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	430805	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	440552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	231200	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	180305	60.200	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 120.400%#		
35) Dibromofluoromethane	5.397	113	146221	52.297	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.600%		
50) Toluene-d8	8.653	98	505562	50.589	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 101.180%		
62) 4-Bromofluorobenzene	11.079	95	214011	58.032	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 116.060%		
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.349	101	25483	9.642	ug/l	99
16) Acetone	2.404	43	2334	2.073	ug/l #	87
17) Carbon Disulfide	2.538	76	2678	0.329	ug/l #	89
20) Methylene Chloride	2.819	84	895	0.300	ug/l #	60
27) cis-1,2-Dichloroethene	4.513	96	3036	0.911	ug/l	81
44) Trichloroethene	7.135	130	186641	55.175	ug/l	99
64) Tetrachloroethene	9.275	164	1084	0.340	ug/l #	80

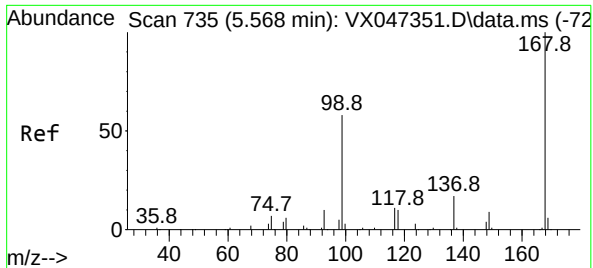
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047411.D
Acq On : 19 Aug 2025 14:50
Operator : JC/MD
Sample : Q2841-01DL 1000X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-081225DL

Quant Time: Aug 20 01:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

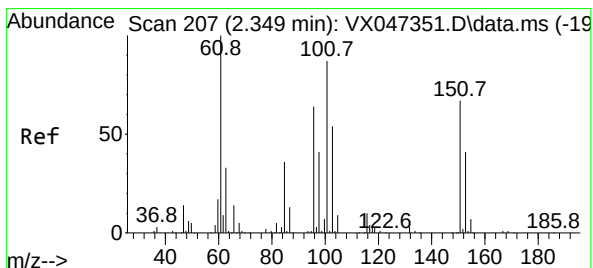
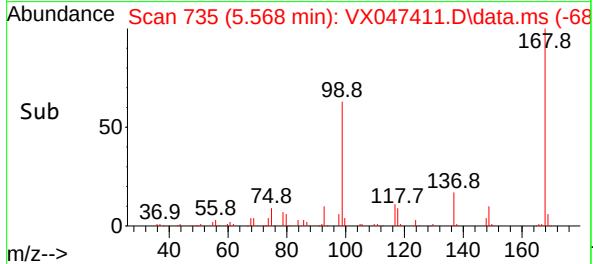
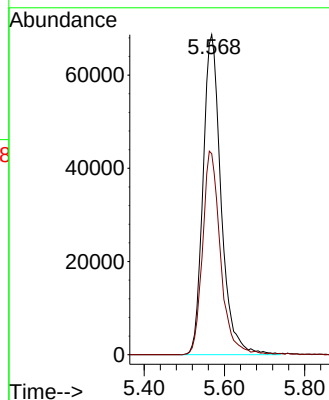
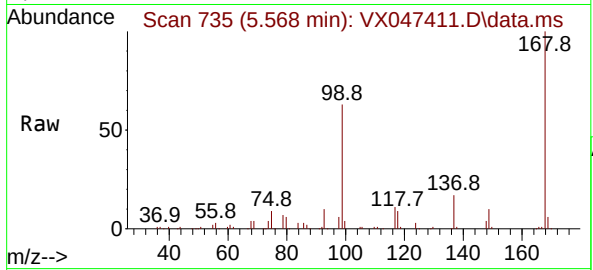




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047411.D
Acq: 19 Aug 2025 14:50

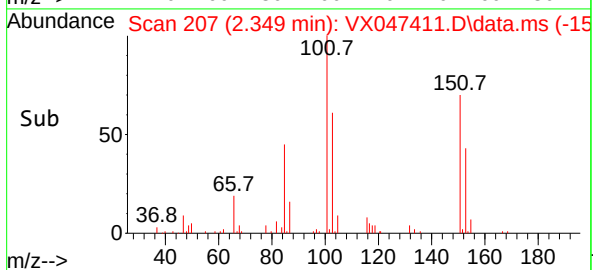
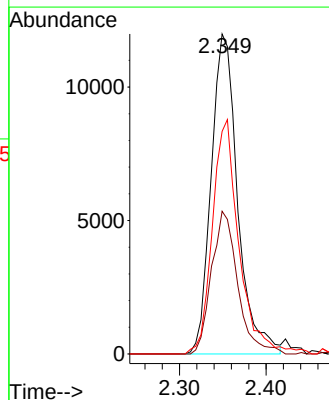
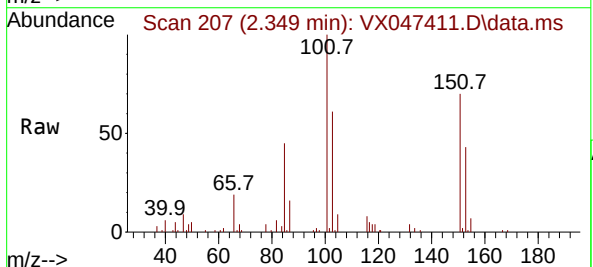
Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-081225DL

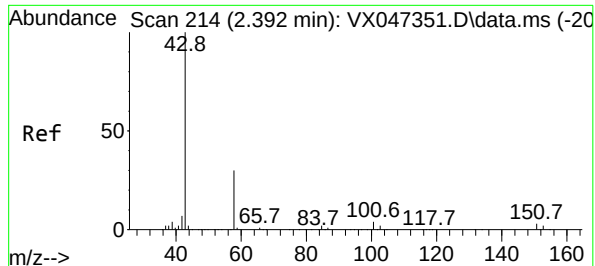
Tgt Ion:168 Resp: 214007
Ion Ratio Lower Upper
168 100
99 62.8 47.9 71.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.642 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047411.D
Acq: 19 Aug 2025 14:50

Tgt Ion:101 Resp: 25483
Ion Ratio Lower Upper
101 100
85 44.2 34.3 51.5
151 73.6 59.2 88.8





#16

Acetone

Concen: 2.073 ug/l

RT: 2.404 min Scan# 216

Delta R.T. 0.012 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

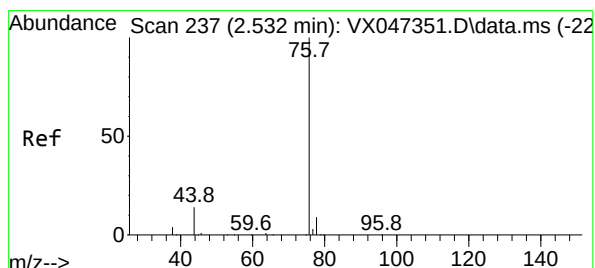
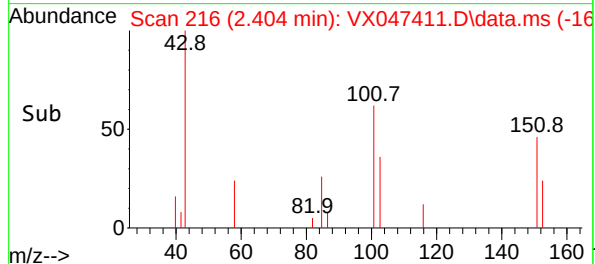
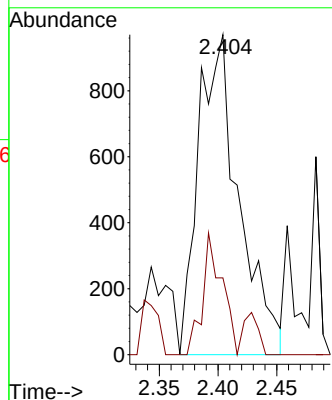
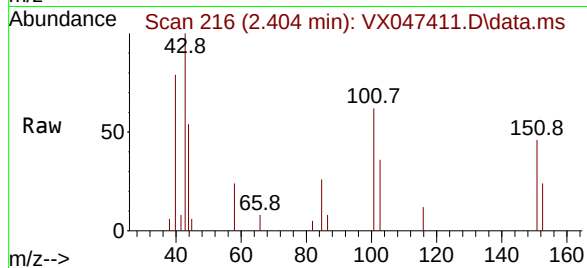
MW-06-6.5-081225DL

Tgt Ion: 43 Resp: 2334

Ion Ratio Lower Upper

43 100

58 24.0 24.8 37.2#



#17

Carbon Disulfide

Concen: 0.329 ug/l

RT: 2.538 min Scan# 238

Delta R.T. 0.006 min

Lab File: VX047411.D

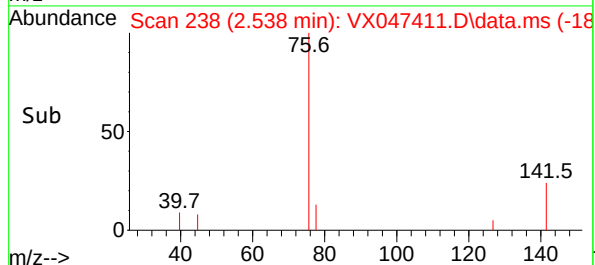
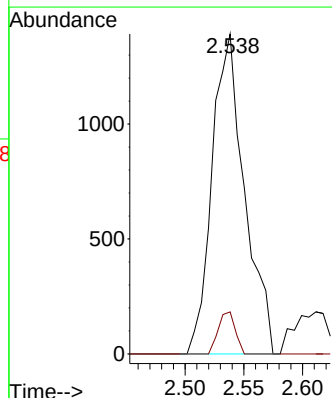
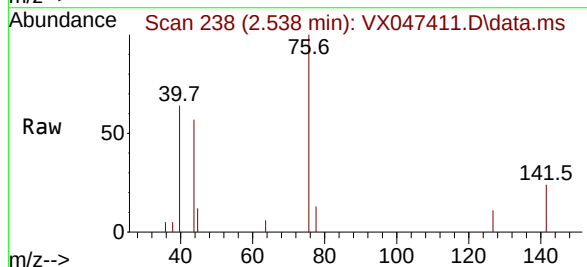
Acq: 19 Aug 2025 14:50

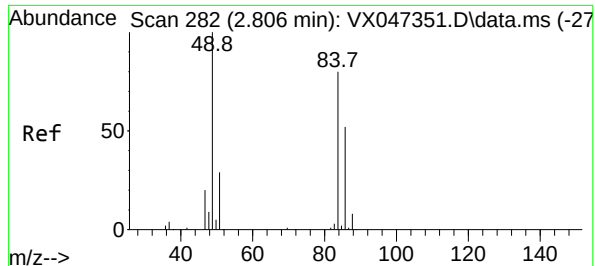
Tgt Ion: 76 Resp: 2678

Ion Ratio Lower Upper

76 100

78 13.1 7.2 10.8#





#20

Methylene Chloride

Concen: 0.300 ug/l

RT: 2.819 min Scan# 21

Delta R.T. 0.012 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-081225DL

Tgt Ion: 84 Resp: 895

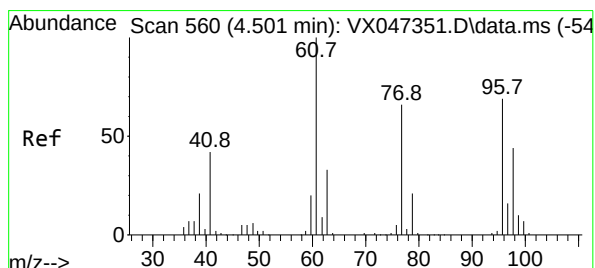
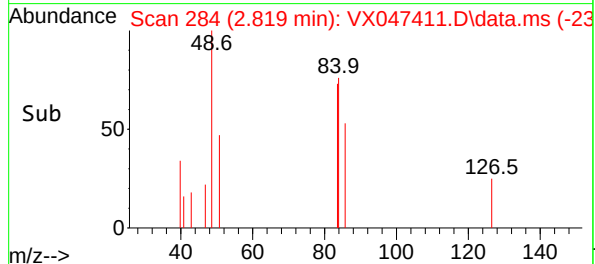
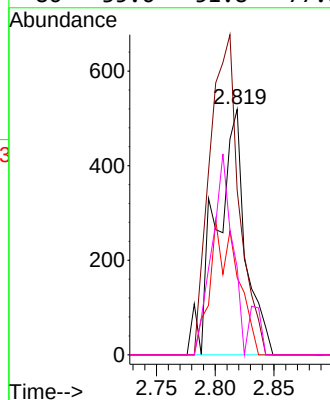
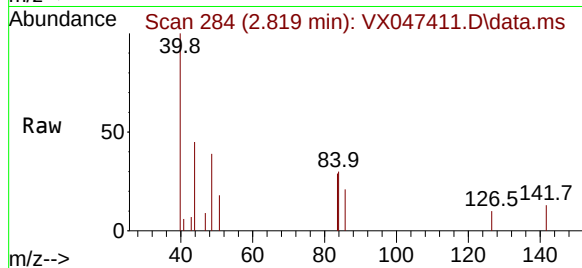
Ion Ratio Lower Upper

84 100

49 67.1 100.1 150.1#

51 31.4 29.5 44.3

86 35.6 51.8 77.8#



#27

cis-1,2-Dichloroethene

Concen: 0.911 ug/l

RT: 4.513 min Scan# 562

Delta R.T. 0.012 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

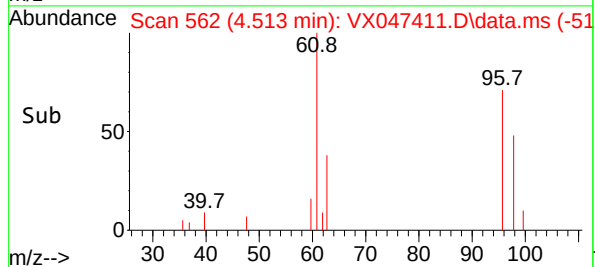
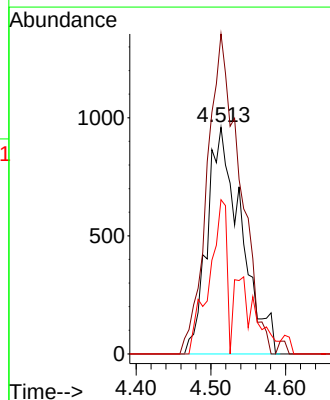
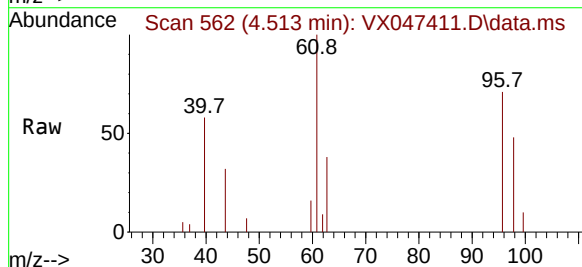
Tgt Ion: 96 Resp: 3036

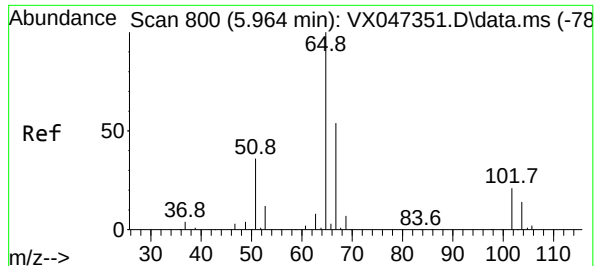
Ion Ratio Lower Upper

96 100

61 135.7 0.0 296.6

98 35.0 0.0 130.4





#33

1,2-Dichloroethane-d4

Concen: 60.200 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

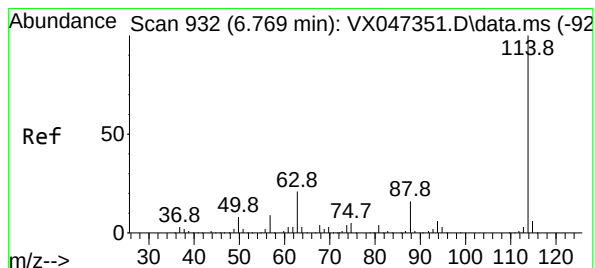
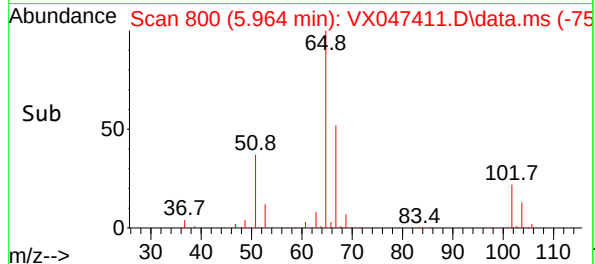
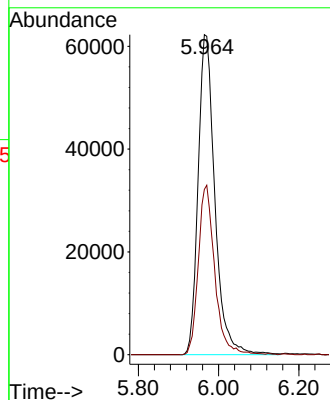
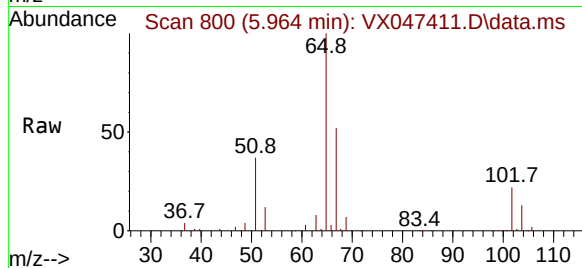
MW-06-6.5-081225DL

Tgt Ion: 65 Resp: 180305

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

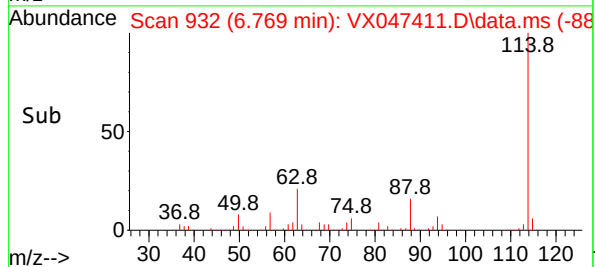
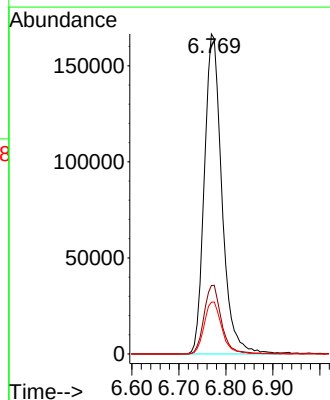
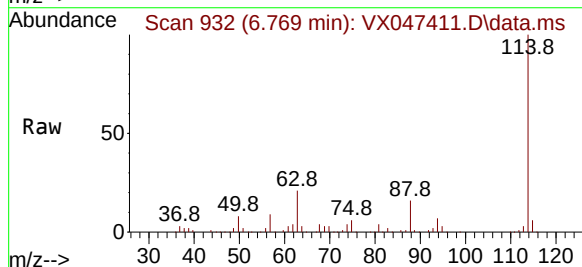
Tgt Ion: 114 Resp: 430805

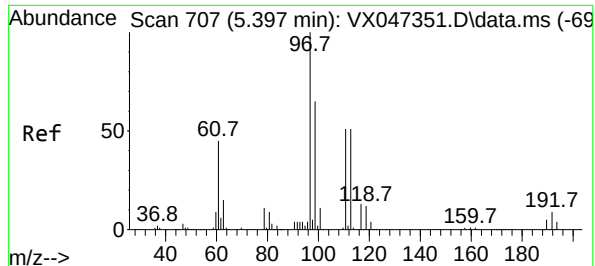
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.4

88 16.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 52.297 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047411.D

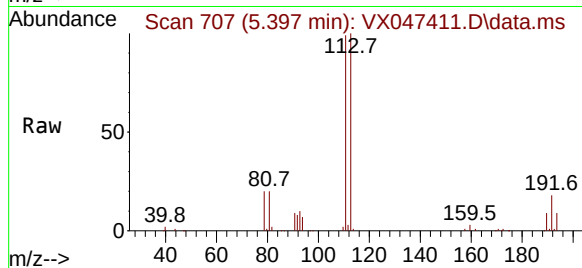
Acq: 19 Aug 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-081225DL



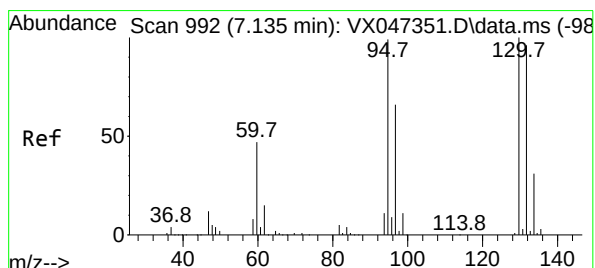
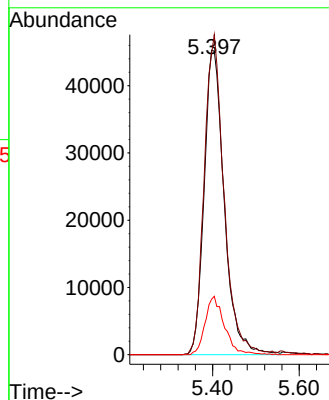
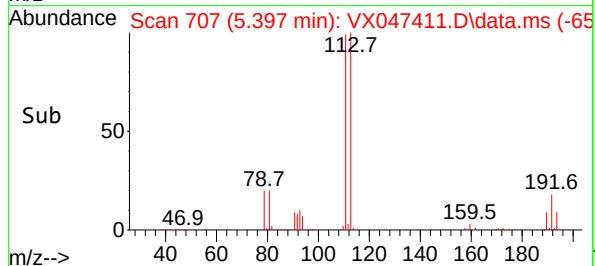
Tgt Ion:113 Resp: 146221

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.2

192 18.4 14.1 21.1



#44

Trichloroethene

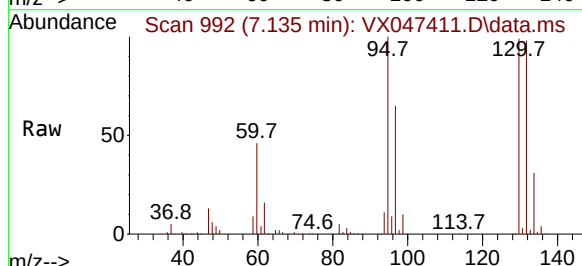
Concen: 55.175 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

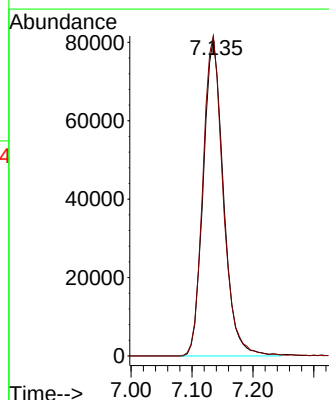
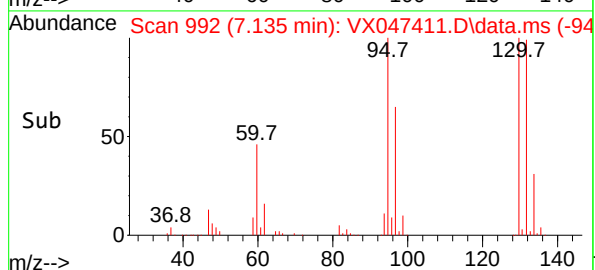


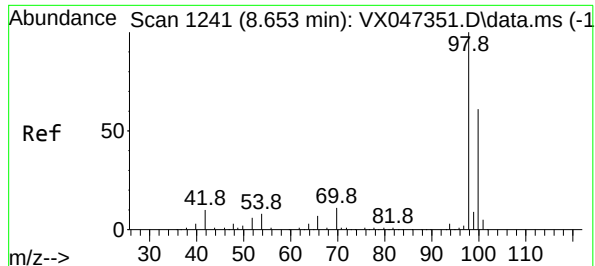
Tgt Ion:130 Resp: 186641

Ion Ratio Lower Upper

130 100

95 100.6 0.0 198.6





#50

Toluene-d8

Concen: 50.589 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

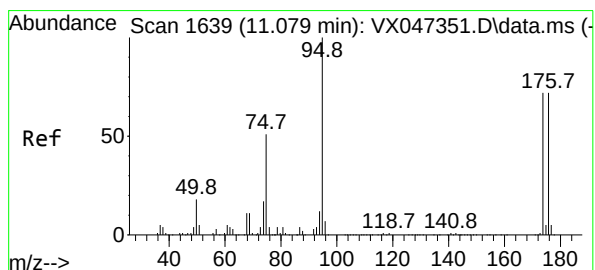
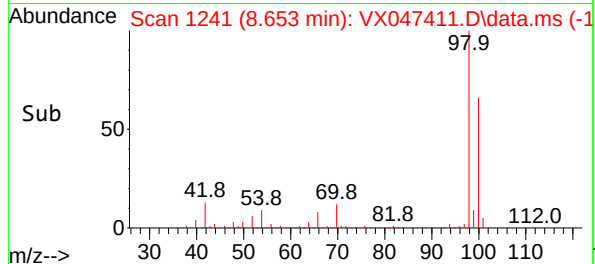
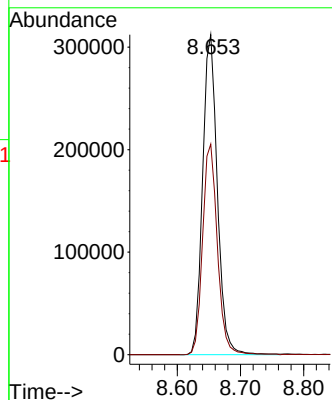
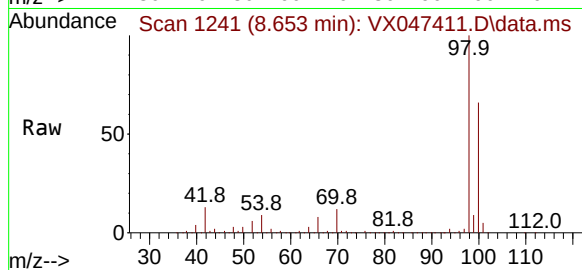
MW-06-6.5-081225DL

Tgt Ion: 98 Resp: 505562

Ion Ratio Lower Upper

98 100

100 66.1 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 58.032 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

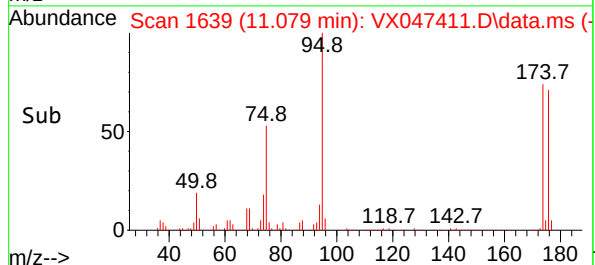
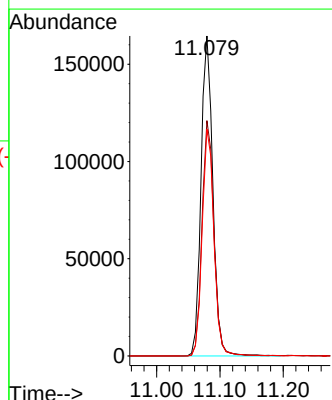
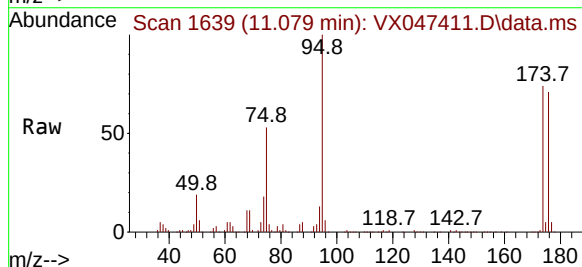
Tgt Ion: 95 Resp: 214011

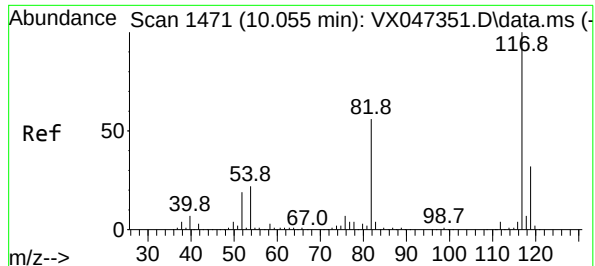
Ion Ratio Lower Upper

95 100

174 74.2 0.0 148.0

176 70.8 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-081225DL

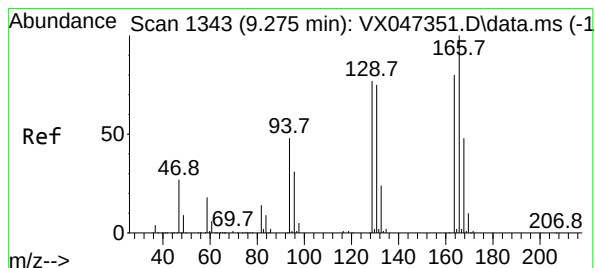
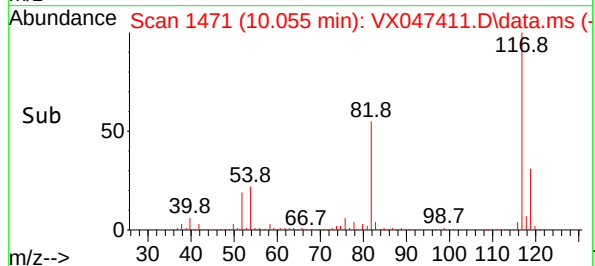
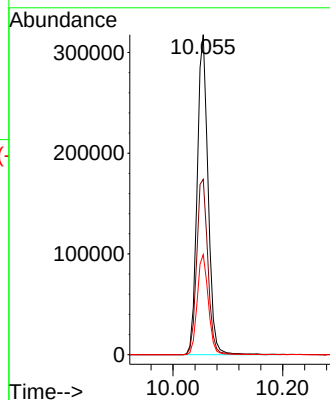
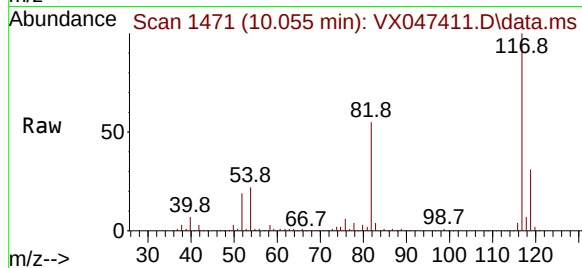
Tgt Ion:117 Resp: 440552

Ion Ratio Lower Upper

117 100

82 54.8 45.0 67.4

119 31.3 25.8 38.8



#64

Tetrachloroethene

Concen: 0.340 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VX047411.D

Acq: 19 Aug 2025 14:50

Tgt Ion:164 Resp: 1084

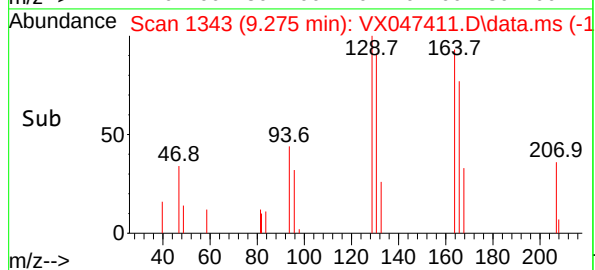
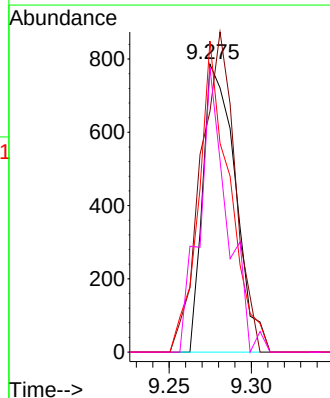
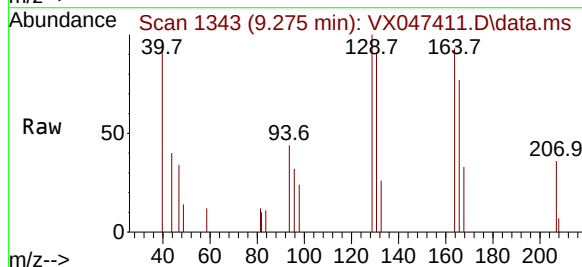
Ion Ratio Lower Upper

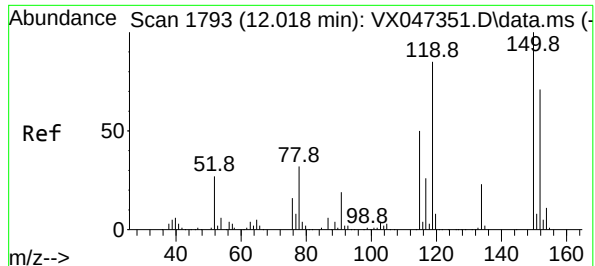
164 100

166 83.6 100.3 150.5#

129 108.0 77.7 116.5

131 98.7 74.8 112.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047411.D

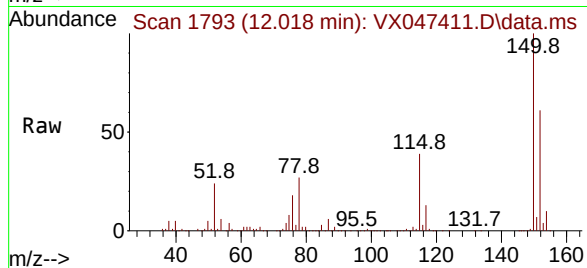
Acq: 19 Aug 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-081225DL



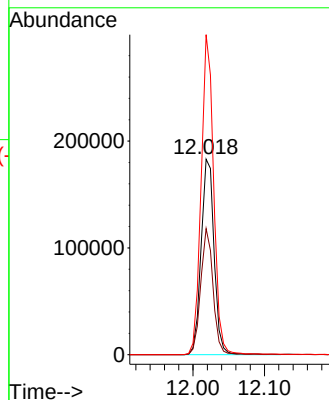
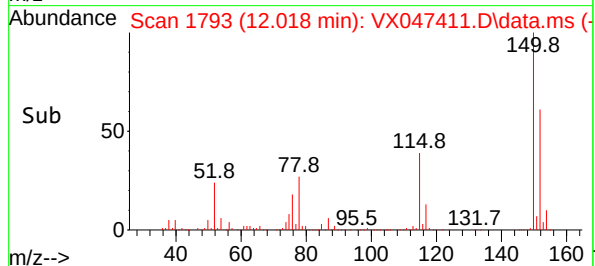
Tgt Ion:152 Resp: 231200

Ion Ratio Lower Upper

152 100

115 61.2 44.6 133.8

150 157.5 0.0 349.8





CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG No.: Q2841
 Instrument ID: MSVOA_X Calibration Date(s): 08/15/2025 08/15/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:40 12:30
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF005 = VX047349.D		RRF020 = VX047350.D		RRF050 = VX047351.D			
		RRF100 = VX047352.D		RRF150 = VX047353.D		RRF001 = VX047356.D			
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	RRF	% RSD	
Vinyl Chloride	0.651	0.751	0.800	0.729	0.757	0.630	0.720	9.2	
1,1-Dichloroethene	0.575	0.664	0.697	0.635	0.651	0.555	0.630	8.6	
1,1-Dichloroethane	1.180	1.294	1.356	1.210	1.238	1.052	1.222	8.5	
cis-1,2-Dichloroethene	0.758	0.826	0.846	0.769	0.779	0.692	0.778	7	
1,1,1-Trichloroethane	1.043	1.151	1.195	1.081	1.106	0.863	1.073	10.8	
Benzene	1.502	1.665	1.701	1.516	1.504	1.312	1.533	9.1	
1,2-Dichloroethane	0.521	0.594	0.600	0.532	0.528	0.484	0.543	8.3	
Trichloroethene	0.383	0.423	0.432	0.390	0.391	0.336	0.393	8.6	
1,1,2-Trichloroethane	0.358	0.393	0.396	0.352	0.347	0.313	0.360	8.6	
Tetrachloroethene	0.351	0.384	0.398	0.360	0.360	0.316	0.362	7.8	
1,2-Dichloroethane-d4	0.709	0.581	0.700	0.747	0.762		0.700	10.2	
Dibromofluoromethane	0.310	0.278	0.331	0.354	0.349		0.325	9.6	
Toluene-d8	1.157	0.994	1.171	1.246	1.232		1.160	8.7	
4-Bromofluorobenzene	0.441	0.371	0.428	0.452	0.448		0.428	7.8	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X081525W.M
 Title : SW846 8260
 Last Update : Mon Aug 18 04:18:28 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX047356.D 5 =VX047349.D 20 =VX047350.D 50 =VX047351.D 100 =VX047352.D 150 =VX047353.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.546	0.558	0.638	0.731	0.671	0.680	0.637	11.38
3) P	Chloromethane	0.549	0.539	0.568	0.624	0.567	0.594	0.573	5.41
4) C	Vinyl Chloride	0.630	0.651	0.751	0.800	0.729	0.757	0.720	9.16#
5) T	Bromomethane	0.251	0.296	0.336	0.309	0.261	0.291	0.291	11.94
6) T	Chloroethane	0.515	0.392	0.440	0.463	0.410	0.422	0.440	10.01
7) T	Trichlorofluor...	0.938	1.012	1.121	1.188	1.060	1.069	1.065	8.10
8) T	Diethyl Ether	0.340	0.351	0.387	0.415	0.370	0.385	0.375	7.21
9) T	1,1,2-Trichlor...	0.494	0.589	0.664	0.697	0.624	0.637	0.618	11.41
10) T	Methyl Iodide	0.820	0.912	1.163	1.181	1.215	1.058	1.058	16.96
11) T	Tert butyl alc...	0.052	0.059	0.068	0.062	0.063	0.061	0.061	9.76
12) CM	1,1-Dichloroet...	0.555	0.575	0.664	0.697	0.635	0.651	0.630	8.61#
13) T	Acrolein	0.130	0.122	0.132	0.127	0.131	0.129	0.129	3.22
14) T	Allyl chloride	0.951	1.023	1.143	1.211	1.109	1.124	1.093	8.47
15) T	Acrylonitrile	0.248	0.260	0.314	0.340	0.299	0.303	0.294	11.64
16) T	Acetone	0.249	0.259	0.310	0.280	0.240	0.240	0.263	10.48
17) T	Carbon Disulfide	2.069	1.747	1.916	1.993	1.819	1.854	1.900	6.21
18) T	Methyl Acetate	0.621	0.620	0.661	0.769	0.689	0.728	0.682	8.75
19) T	Methyl tert-bu...	1.554	1.768	2.019	2.175	1.962	2.014	1.915	11.49
20) T	Methylene Chlo...	0.691	0.645	0.732	0.757	0.669	0.684	0.697	5.94
21) T	trans-1,2-Dich...	0.621	0.638	0.705	0.725	0.655	0.664	0.668	5.98
22) T	Diisopropyl ether	1.735	2.035	2.372	2.460	2.180	2.186	2.161	11.92
23) T	Vinyl Acetate	1.412	1.596	1.919	2.040	1.821	1.841	1.772	12.91
24) P	1,1-Dichloroet...	1.052	1.180	1.294	1.356	1.210	1.238	1.222	8.53
25) T	2-Butanone	0.287	0.328	0.378	0.389	0.342	0.343	0.344	10.56
26) T	2,2-Dichloropr...	0.776	0.864	0.976	1.017	0.940	0.960	0.922	9.49
27) T	cis-1,2-Dichlo...	0.692	0.758	0.826	0.846	0.769	0.779	0.778	6.99
28) T	Bromochloromet...	0.481	0.543	0.402	0.540	0.560	0.525	0.508	11.55
29) T	Tetrahydrofuran	0.219	0.206	0.227	0.246	0.219	0.219	0.223	5.97
30) C	Chloroform	1.091	1.236	1.328	1.368	1.214	1.243	1.247	7.75#
31) T	Cyclohexane	1.024	1.202	1.210	1.082	1.112	1.126	1.126	7.05
32) T	1,1,1-Trichlor...	0.863	1.043	1.151	1.195	1.081	1.106	1.073	10.80
33) S	1,2-Dichloroet...	0.709	0.581	0.700	0.747	0.762	0.700	0.700	10.19
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.310	0.278	0.331	0.354	0.349	0.325	0.325	9.56
36) T	1,1-Dichloropr...	0.474	0.475	0.551	0.562	0.509	0.502	0.512	7.25
37) T	Ethyl Acetate	0.492	0.491	0.568	0.590	0.528	0.523	0.532	7.57
38) T	Carbon Tetrach...	0.515	0.536	0.596	0.607	0.549	0.554	0.560	6.31
39) T	Methylcyclohexane	0.595	0.589	0.673	0.695	0.640	0.642	0.639	6.55
40) TM	Benzene	1.312	1.502	1.665	1.701	1.516	1.504	1.533	9.07
41) T	Methacrylonitrile	0.175	0.192	0.244	0.258	0.245	0.231	0.224	14.75
42) TM	1,2-Dichloroet...	0.484	0.521	0.594	0.600	0.532	0.528	0.543	8.33
43) T	Isopropyl Acetate	0.645	0.660	0.811	0.868	0.798	0.802	0.764	11.82
44) TM	Trichloroethene	0.336	0.383	0.423	0.432	0.390	0.391	0.393	8.64
45) C	1,2-Dichloropr...	0.357	0.349	0.415	0.421	0.381	0.382	0.384	7.60#
46) T	Dibromomethane	0.248	0.272	0.302	0.302	0.273	0.276	0.279	7.34
47) T	Bromodichlorom...	0.513	0.548	0.621	0.635	0.578	0.573	0.578	7.81
48) T	Methyl methacr...	0.352	0.335	0.419	0.445	0.412	0.417	0.397	10.89
49) T	1,4-Dioxane	0.003	0.004	0.004	0.004	0.004	0.004	0.004	14.33
50) S	Toluene-d8	1.157	0.994	1.171	1.246	1.232	1.160	1.160	8.66
51) T	4-Methyl-2-Pen...	0.346	0.408	0.479	0.509	0.451	0.444	0.440	12.98
52) CM	Toluene	0.802	0.920	1.043	1.057	0.936	0.927	0.947	9.87#
53) T	t-1,3-Dichloro...	0.371	0.444	0.537	0.584	0.541	0.550	0.505	15.92
54) T	cis-1,3-Dichlo...	0.451	0.531	0.608	0.642	0.592	0.602	0.571	12.05
55) T	1,1,2-Trichlor...	0.313	0.358	0.393	0.396	0.352	0.347	0.360	8.61
56) T	Ethyl methacry...	0.405	0.466	0.562	0.617	0.563	0.569	0.530	14.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X081525W.M

57)	T	1,3-Dichloropr...	0.553	0.591	0.672	0.670	0.600	0.592	0.613	7.78
58)	T	2-Chloroethyl ...	0.103	0.191	0.184	0.274	0.256	0.259	0.211	30.82
59)	T	2-Hexanone	0.239	0.284	0.338	0.347	0.310	0.306	0.304	12.89
60)	T	Dibromochlorom...	0.382	0.412	0.461	0.464	0.426	0.420	0.428	7.31
61)	T	1,2-Dibromoethane	0.336	0.358	0.397	0.409	0.365	0.361	0.371	7.24
62)	S	4-Bromofluorob...	0.441	0.371	0.428	0.452	0.448	0.428		7.78
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.316	0.351	0.384	0.398	0.360	0.360	0.362	7.79
65)	PM	Chlorobenzene	1.073	1.163	1.268	1.286	1.163	1.175	1.188	6.58
66)	T	1,1,1,2-Tetrac...	0.345	0.389	0.423	0.441	0.403	0.409	0.402	8.27
67)	C	Ethyl Benzene	1.718	1.941	2.216	2.277	2.062	2.056	2.045	9.81#
68)	T	m/p-Xylenes	0.642	0.722	0.831	0.858	0.765	0.759	0.763	10.18
69)	T	o-Xylene	0.651	0.679	0.793	0.813	0.735	0.732	0.734	8.55
70)	T	Styrene	0.909	1.186	1.397	1.411	1.271	1.266	1.240	14.80
71)	P	Bromoform	0.241	0.294	0.322	0.335	0.306	0.313	0.302	10.89
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.211	3.547	4.192	4.399	4.048	4.080	3.913	11.36
74)	T	N-amyl acetate	1.047	1.230	1.539	1.729	1.658	1.712	1.486	19.05
75)	P	1,1,2,2-Tetrac...	1.044	1.077	1.208	1.269	1.142	1.152	1.149	7.19
76)	T	1,2,3-Trichlor...	0.818	0.888	0.941	1.014	0.919	0.921	0.917	6.98
77)	T	Bromobenzene	0.797	0.909	1.017	1.053	0.978	0.977	0.955	9.54
78)	T	n-propylbenzene	3.905	4.263	5.031	5.179	4.817	4.844	4.673	10.45
79)	T	2-Chlorotoluene	2.545	2.612	3.039	3.096	2.828	2.830	2.825	7.80
80)	T	1,3,5-Trimethy...	2.716	2.909	3.463	3.588	3.311	3.329	3.219	10.44
81)	T	trans-1,4-Dich...	0.089	0.141	0.199	0.215	0.246	0.178		35.26
82)	T	4-Chlorotoluene	3.043	3.128	3.542	3.630	3.299	3.338	3.330	6.83
83)	T	tert-Butylbenzene	2.658	2.867	3.451	3.619	3.334	3.342	3.212	11.48
84)	T	1,2,4-Trimethy...	2.516	2.990	3.521	3.645	3.318	3.326	3.219	12.74
85)	T	sec-Butylbenzene	3.273	3.630	4.323	4.417	4.101	4.142	3.981	11.07
86)	T	p-Isopropyltol...	2.961	3.071	3.569	3.726	3.416	3.469	3.369	8.75
87)	T	1,3-Dichlorobe...	1.710	1.719	1.907	1.983	1.811	1.823	1.825	5.82
88)	T	1,4-Dichlorobe...	1.936	1.788	1.952	1.986	1.788	1.814	1.877	4.81
89)	T	n-Butylbenzene	2.816	2.796	3.309	3.444	3.208	3.227	3.133	8.52
90)	T	Hexachloroethane	0.529	0.505	0.584	0.653	0.618	0.657	0.591	10.74
91)	T	1,2-Dichlorobe...	1.631	1.617	1.851	1.862	1.705	1.729	1.733	6.06
92)	T	1,2-Dibromo-3-...	0.191	0.182	0.225	0.247	0.238	0.249	0.222	13.01
93)	T	1,2,4-Trichlor...	1.144	1.030	1.168	1.234	1.191	1.204	1.161	6.16
94)	T	Hexachlorobuta...	0.562	0.367	0.387	0.404	0.376	0.383	0.413	17.91
95)	T	Naphthalene	2.674	2.705	3.401	3.779	3.639	3.717	3.319	15.20
96)	T	1,2,3-Trichlor...	1.075	0.919	1.109	1.174	1.132	1.160	1.095	8.48

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047349.D
 Acq On : 15 Aug 2025 09:40
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:52:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	281608	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	479446	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	434591	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	224159	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	19963	5.065	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	10.140%#		
35) Dibromofluoromethane	5.397	113	14862	4.776	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	9.560%#		
50) Toluene-d8	8.653	98	55469	4.987	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	9.980%#		
62) 4-Bromofluorobenzene	11.079	95	21138	5.150	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.300%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	15718	4.378	ug/l	97
3) Chloromethane	1.313	50	15170	4.697	ug/l	92
4) Vinyl Chloride	1.392	62	18322	4.520	ug/l	94
5) Bromomethane	1.624	94	7076	4.322	ug/l	94
6) Chloroethane	1.709	64	11042	4.452	ug/l	96
7) Trichlorofluoromethane	1.904	101	28485	4.751	ug/l	93
8) Diethyl Ether	2.148	74	9891	4.685	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.343	101	16582	4.768	ug/l	99
10) Methyl Iodide	2.471	142	23080	3.872	ug/l	97
11) Tert butyl alcohol	2.965	59	7340	21.408	ug/l #	89
12) 1,1-Dichloroethene	2.337	96	16204	4.570	ug/l	92
13) Acrolein	2.252	56	18274	25.248	ug/l	97
14) Allyl chloride	2.678	41	28797	4.676	ug/l	100
15) Acrylonitrile	3.087	53	36613	22.099	ug/l	97
16) Acetone	2.392	43	36440	24.598	ug/l	94
17) Carbon Disulfide	2.532	76	49197	4.598	ug/l	99
18) Methyl Acetate	2.721	43	17456	4.547	ug/l	93
19) Methyl tert-butyl Ether	3.130	73	49799	4.617	ug/l	100
20) Methylene Chloride	2.806	84	18175	4.633	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	17974	4.776	ug/l	88
22) Diisopropyl ether	3.776	45	57311	4.708	ug/l	96
23) Vinyl Acetate	3.739	43	224747	22.525	ug/l	100
24) 1,1-Dichloroethane	3.623	63	33241	4.831	ug/l	99
25) 2-Butanone	4.581	43	46235	23.830	ug/l	97
26) 2,2-Dichloropropane	4.489	77	24325	4.684	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	21338	4.868	ug/l	96
28) Bromochloromethane	4.916	49	15283	5.338	ug/l	98
29) Tetrahydrofuran	5.038	42	28938m	23.076	ug/l	
30) Chloroform	5.105	83	34798	4.955	ug/l	97
31) Cyclohexane	5.483	56	28847	4.548	ug/l	91
32) 1,1,1-Trichloroethane	5.404	97	29367	4.859	ug/l	99
36) 1,1-Dichloropropene	5.702	75	22796	4.641	ug/l	96
37) Ethyl Acetate	4.739	43	23521	4.613	ug/l	99
38) Carbon Tetrachloride	5.690	117	25718	4.791	ug/l	96
39) Methylcyclohexane	7.385	83	28242	4.609	ug/l	98
40) Benzene	6.050	78	72021	4.899	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047349.D
 Acq On : 15 Aug 2025 09:40
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Aug 18 02:52:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.958	41	9185	4.271	ug/l #	91
42) 1,2-Dichloroethane	6.099	62	24979	4.796	ug/l	99
43) Isopropyl Acetate	6.361	43	31621	4.316	ug/l	97
44) Trichloroethene	7.135	130	18386	4.884	ug/l	99
45) 1,2-Dichloropropane	7.434	63	16729	4.542	ug/l	95
46) Dibromomethane	7.592	93	13062	4.885	ug/l	97
47) Bromodichloromethane	7.824	83	26280	4.741	ug/l	95
48) Methyl methacrylate	7.702	41	16053	4.222	ug/l	99
49) 1,4-Dioxane	7.696	88	3959m	109.635	ug/l	
51) 4-Methyl-2-Pentanone	8.580	43	97891	23.221	ug/l	97
52) Toluene	8.720	92	44099	4.854	ug/l	98
53) t-1,3-Dichloropropene	8.982	75	21300	4.403	ug/l	94
54) cis-1,3-Dichloropropene	8.373	75	25475	4.652	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	17150	4.972	ug/l #	83
56) Ethyl methacrylate	9.122	69	22362	4.397	ug/l	97
57) 1,3-Dichloropropane	9.311	76	28336	4.821	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.245	63	45735	26.559	ug/l	98
59) 2-Hexanone	9.433	43	68164	23.375	ug/l	96
60) Dibromochloromethane	9.519	129	19760	4.820	ug/l	97
61) 1,2-Dibromoethane	9.610	107	17154	4.823	ug/l	97
64) Tetrachloroethene	9.275	164	15266	4.856	ug/l	91
65) Chlorobenzene	10.080	112	50559	4.896	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.165	131	16894	4.839	ug/l	96
67) Ethyl Benzene	10.195	91	84363	4.746	ug/l	98
68) m/p-Xylenes	10.299	106	62714	9.462	ug/l	97
69) o-Xylene	10.640	106	29488	4.623	ug/l	100
70) Styrene	10.653	104	51543	4.783	ug/l	98
71) Bromoform	10.799	173	12769	4.869	ug/l #	94
73) Isopropylbenzene	10.964	105	79512	4.533	ug/l	99
74) N-amyl acetate	10.842	43	27565	4.138	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	24139	4.687	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	19912m	4.843	ug/l	
77) Bromobenzene	11.195	156	20380	4.758	ug/l	96
78) n-propylbenzene	11.305	91	95550	4.561	ug/l	100
79) 2-Chlorotoluene	11.366	91	58544	4.623	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	65210	4.518	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	1992	9.640	ug/l	87
82) 4-Chlorotoluene	11.451	91	70117	4.697	ug/l	98
83) tert-Butylbenzene	11.713	119	64267	4.463	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	67032	4.644	ug/l	98
85) sec-Butylbenzene	11.890	105	81375	4.559	ug/l	99
86) p-Isopropyltoluene	12.006	119	68849	4.559	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	38531	4.709	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	40089	4.763	ug/l	93
89) n-Butylbenzene	12.329	91	62666	4.461	ug/l	99
90) Hexachloroethane	12.536	117	11325	4.274	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	36248	4.667	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	4081	4.097	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	23080	4.432	ug/l	96
94) Hexachlorobutadiene	13.725	225	8221	4.436	ug/l	94
95) Naphthalene	13.774	128	60645	4.076	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	20611	4.199	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047349.D
Acq On : 15 Aug 2025 09:40
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:52:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

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

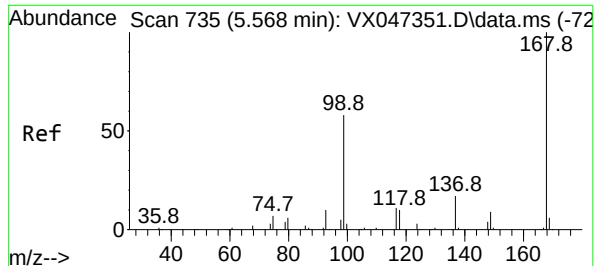
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations

Reviewed By :John Carlone 08/18/2025
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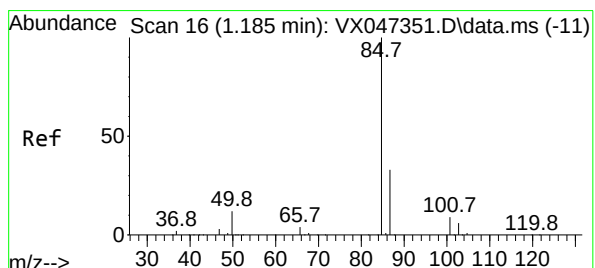
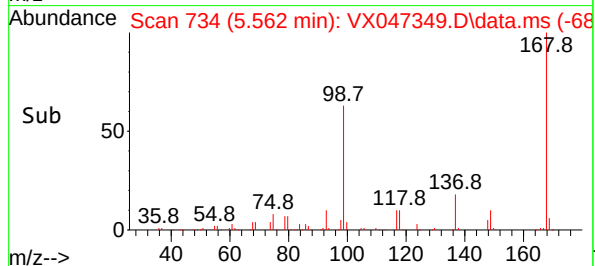
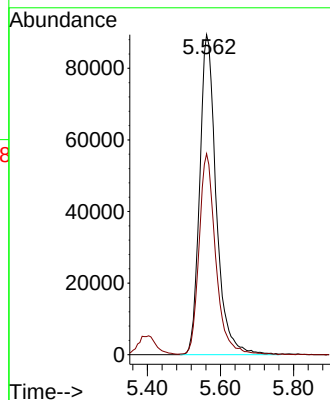
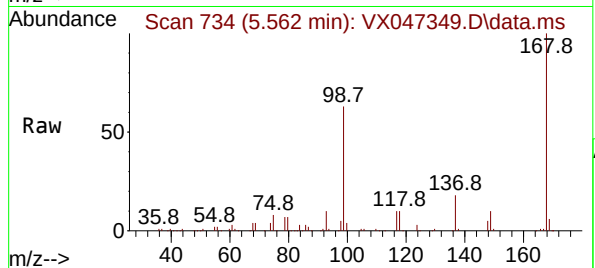
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 281608
Ion Ratio Lower Upper
168 100
99 62.6 47.9 71.9

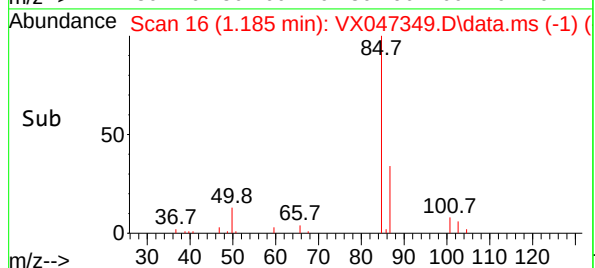
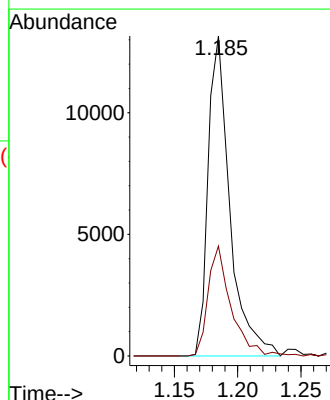
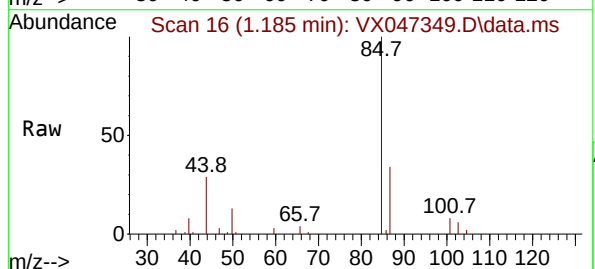
Manual Integrations
APPROVED

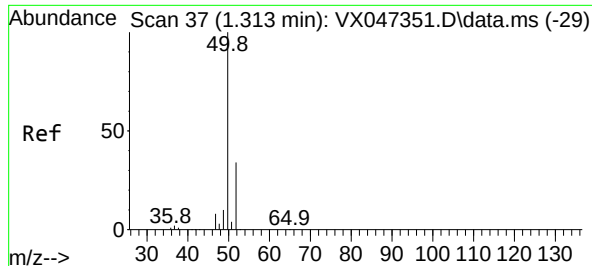
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#2
Dichlorodifluoromethane
Concen: 4.378 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 85 Resp: 15718
Ion Ratio Lower Upper
85 100
87 34.4 16.4 49.1





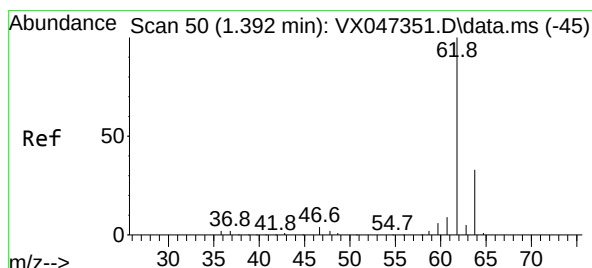
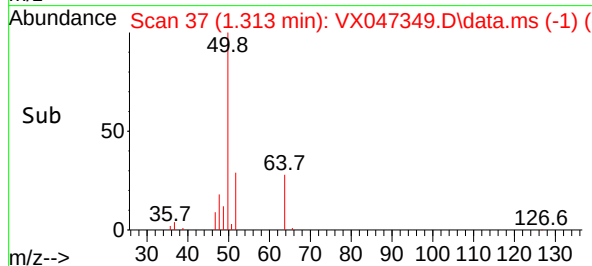
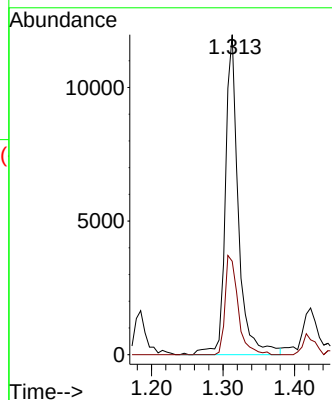
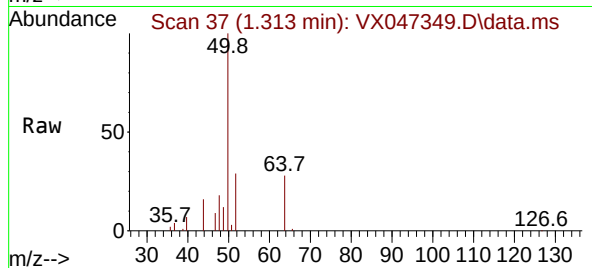
#3
Chloromethane
Concen: 4.697 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 15170
Ion Ratio Lower Upper
50 100
52 29.2 27.0 40.4

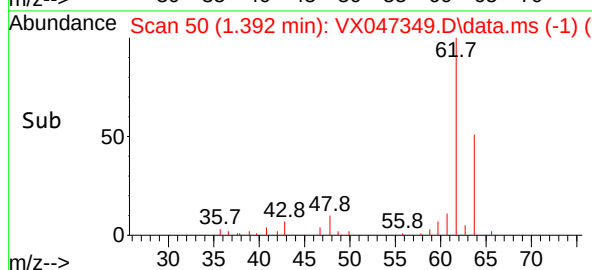
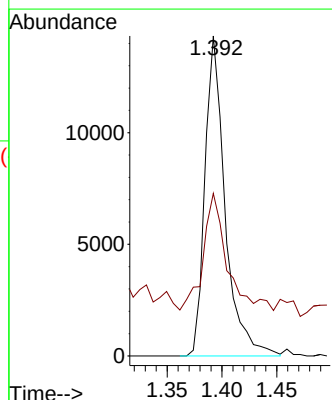
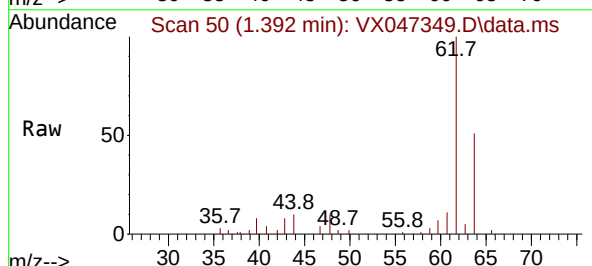
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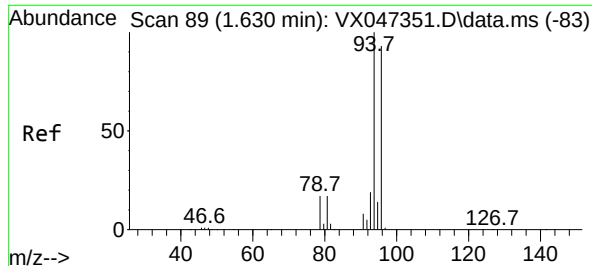
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#4
Vinyl Chloride
Concen: 4.520 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 62 Resp: 18322
Ion Ratio Lower Upper
62 100
64 36.4 26.5 39.7





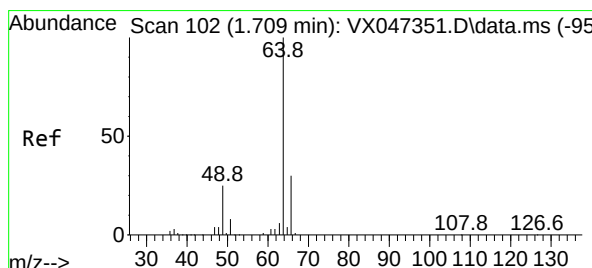
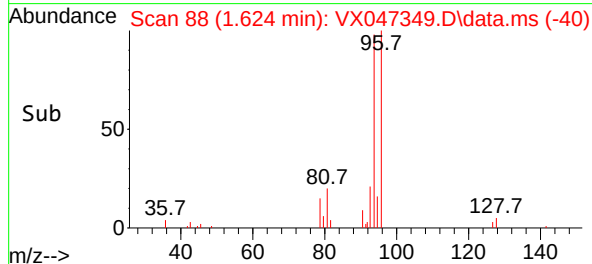
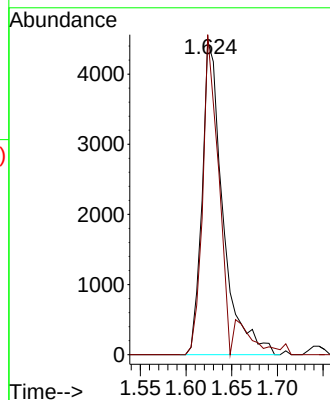
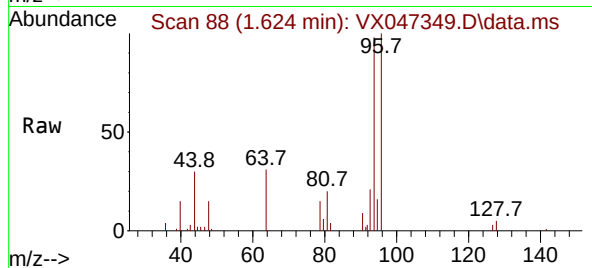
#5
Bromomethane
Concen: 4.322 ug/l
RT: 1.624 min Scan# 89
Delta R.T. -0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 7070
Ion Ratio Lower Upper
94 100
96 87.8 74.7 112.1

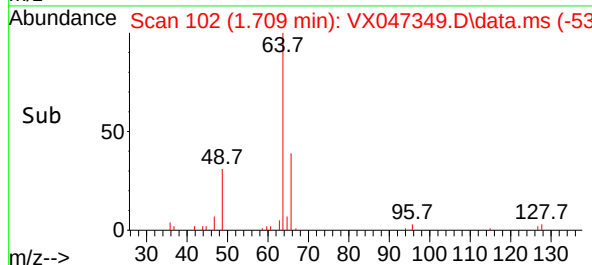
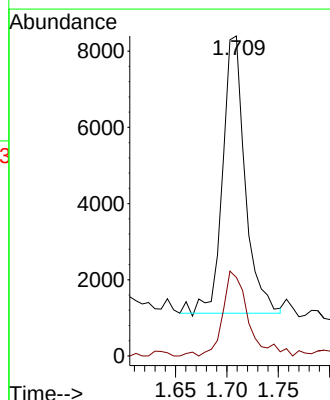
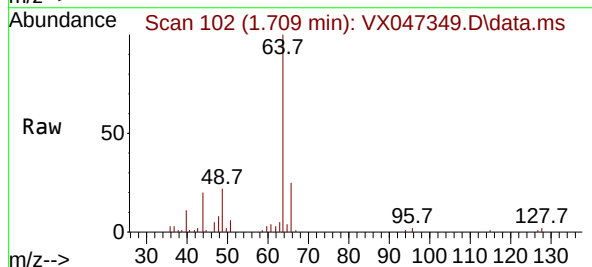
Manual Integrations
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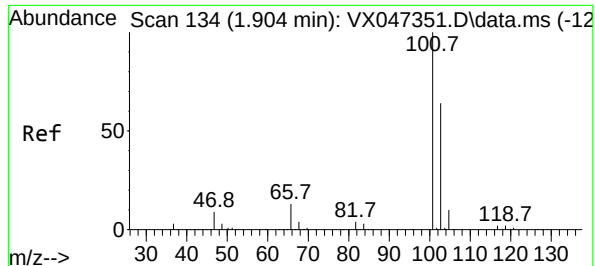
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#6
Chloroethane
Concen: 4.452 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 64 Resp: 11042
Ion Ratio Lower Upper
64 100
66 28.4 24.4 36.6





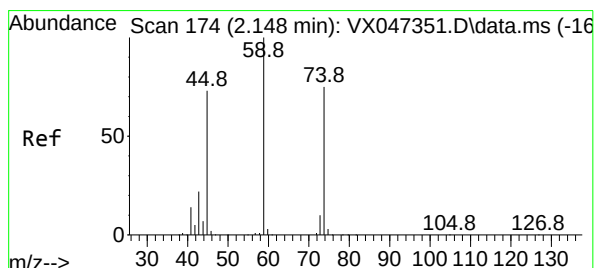
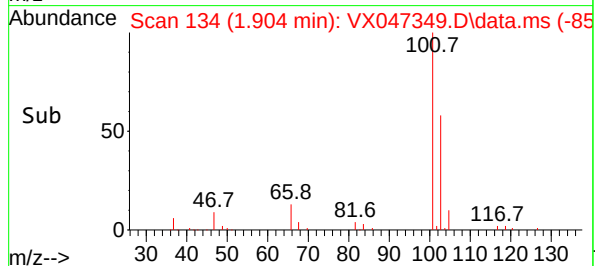
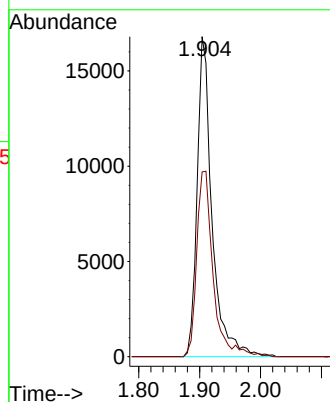
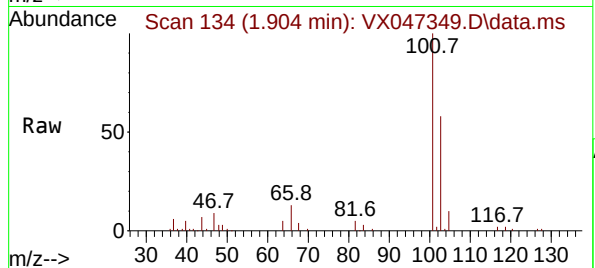
#7
Trichlorofluoromethane
Concen: 4.751 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 2848
Ion Ratio Lower Upper
101 100
103 57.8 50.9 76.3

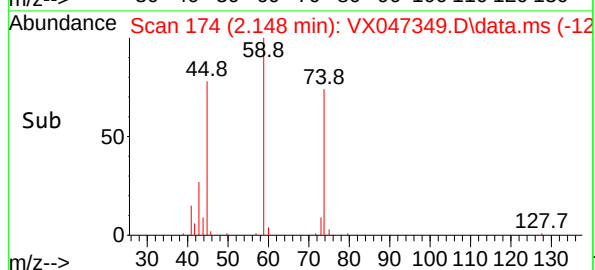
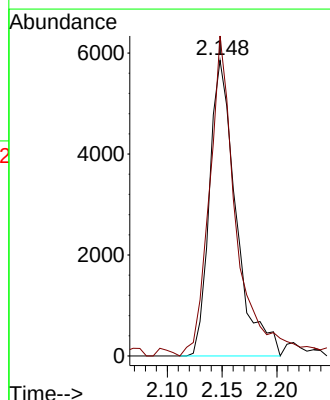
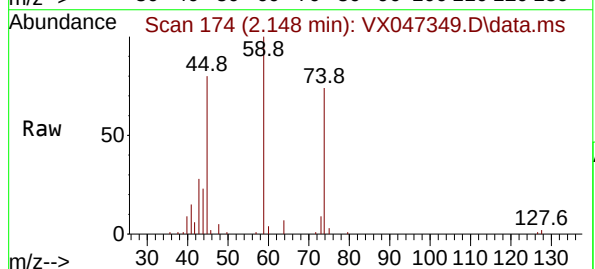
Manual Integrations
APPROVED

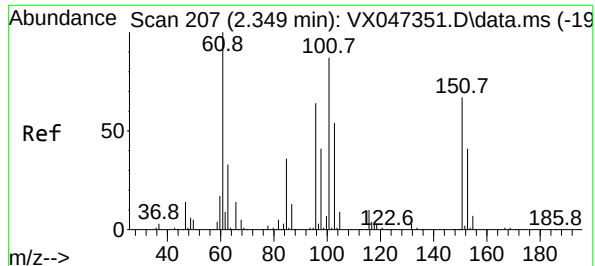
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#8
Diethyl Ether
Concen: 4.685 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 74 Resp: 9891
Ion Ratio Lower Upper
74 100
45 111.2 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.768 ug/l

RT: 2.343 min Scan# 206

Delta R.T. -0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

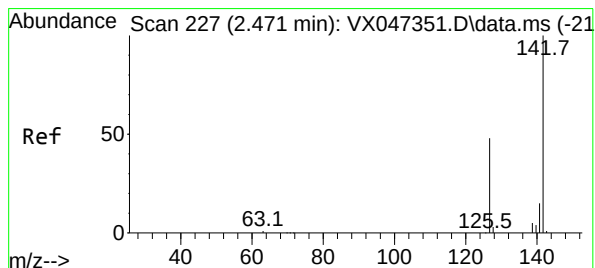
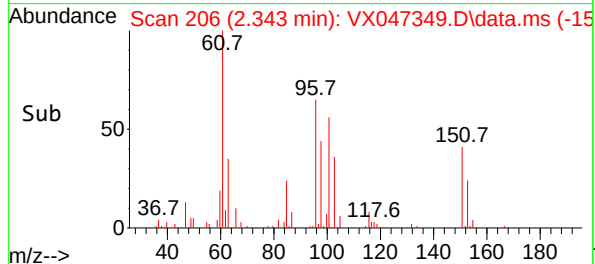
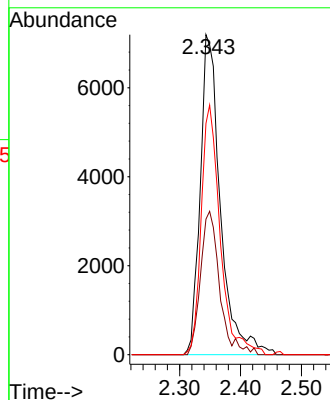
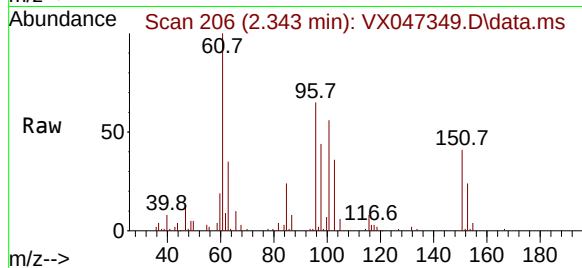
Tgt Ion:	101	Resp:	1658
Ion	Ratio	Lower	Upper
101	100		
85	42.4	34.3	51.5
151	73.3	59.2	88.8

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#10

Methyl Iodide

Concen: 3.872 ug/l

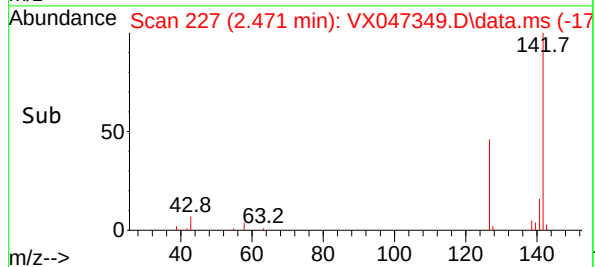
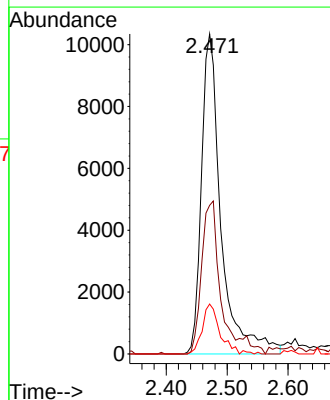
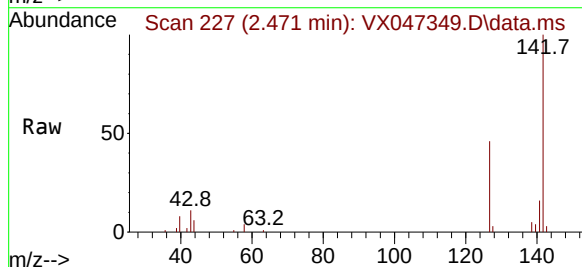
RT: 2.471 min Scan# 227

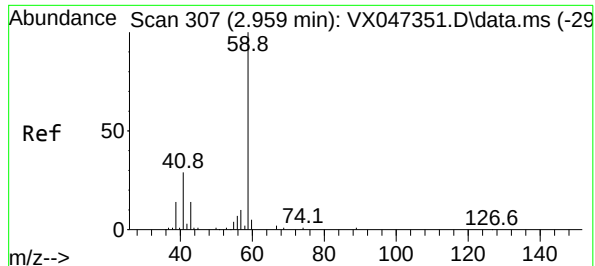
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	142	Resp:	23080
Ion	Ratio	Lower	Upper
142	100		
127	47.1	36.1	54.1
141	14.2	11.1	16.7





#11

Tert butyl alcohol

Concen: 21.408 ug/l

RT: 2.965 min Scan# 307

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 7340

Ion Ratio Lower Upper

59 100

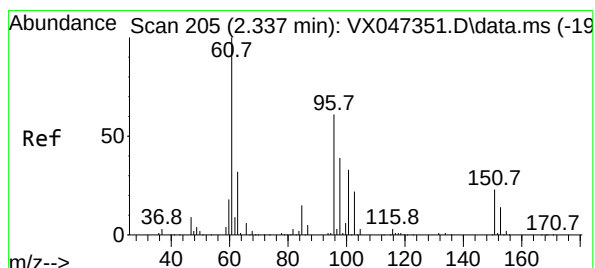
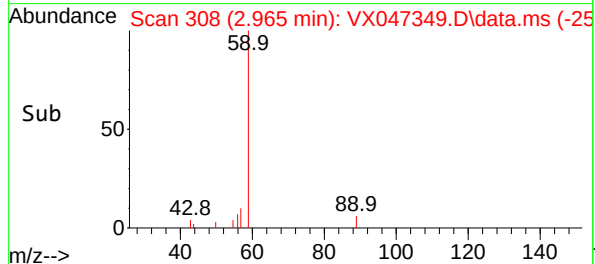
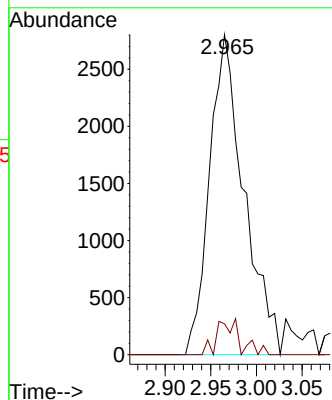
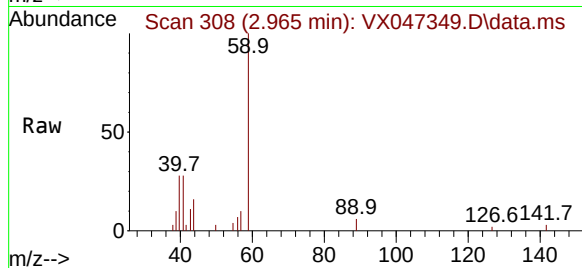
57 6.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#12

1,1-Dichloroethene

Concen: 4.570 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

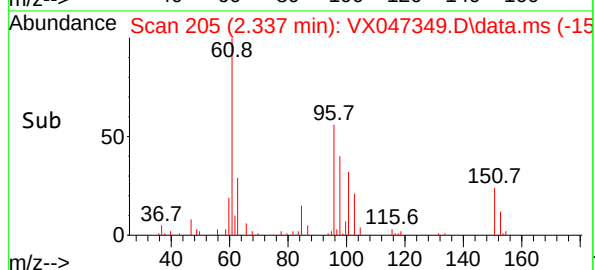
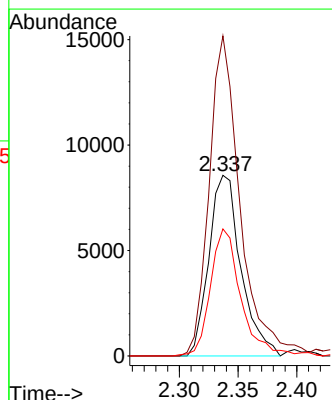
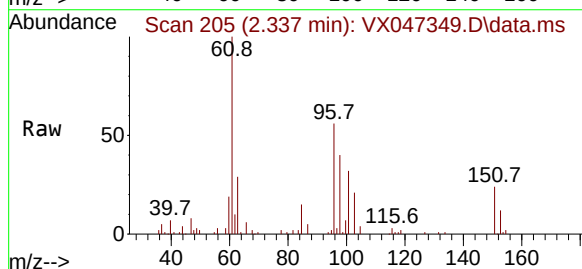
Tgt Ion: 96 Resp: 16204

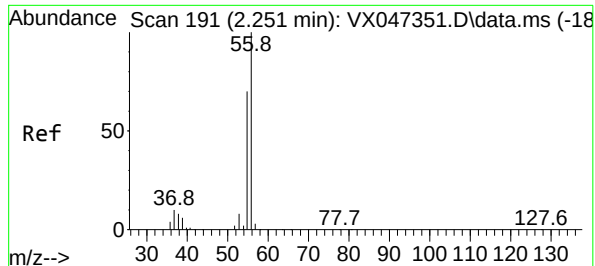
Ion Ratio Lower Upper

96 100

61 177.1 132.2 198.2

98 69.6 51.2 76.8





#13

Acrolein

Concen: 25.248 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 18274

Ion Ratio Lower Upper

56 100

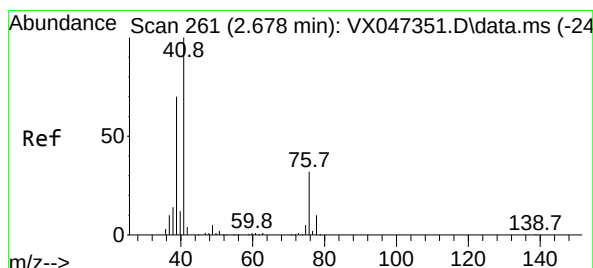
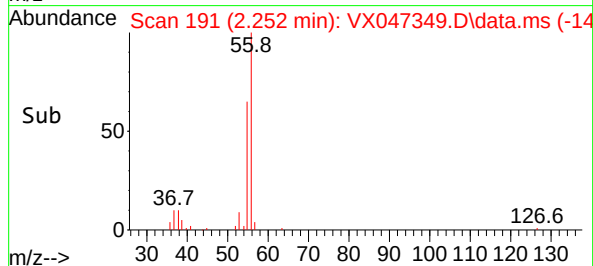
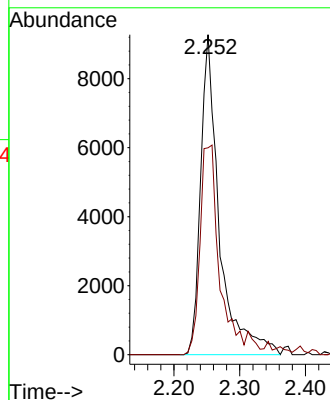
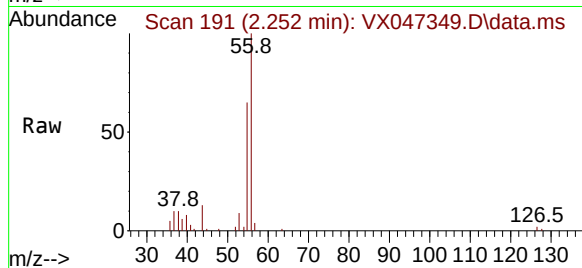
55 66.8 55.5 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#14

Allyl chloride

Concen: 4.676 ug/l

RT: 2.678 min Scan# 261

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

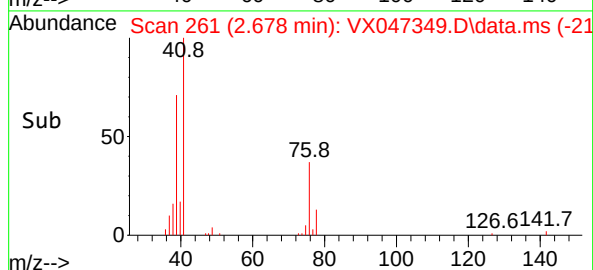
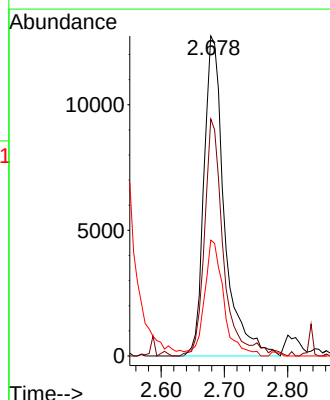
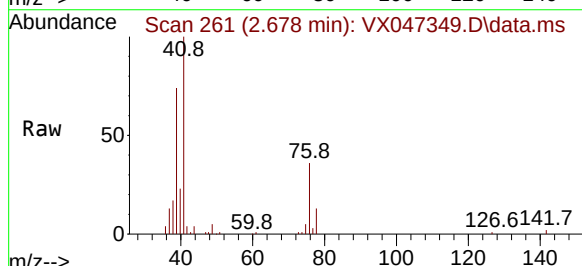
Tgt Ion: 41 Resp: 28797

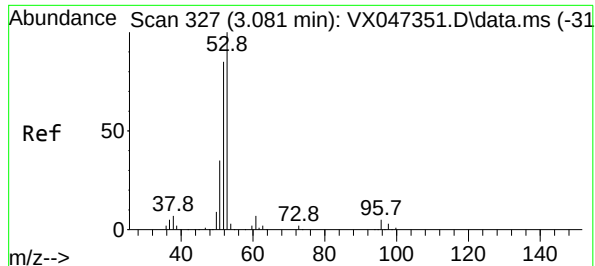
Ion Ratio Lower Upper

41 100

39 68.3 54.6 81.8

76 34.0 27.6 41.4





#15

Acrylonitrile

Concen: 22.099 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

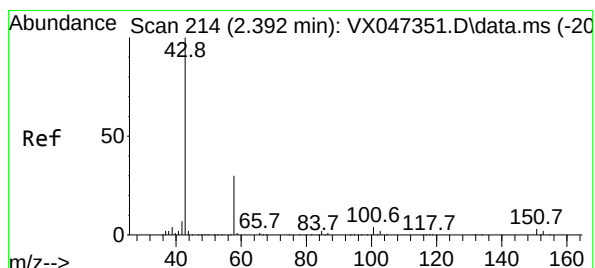
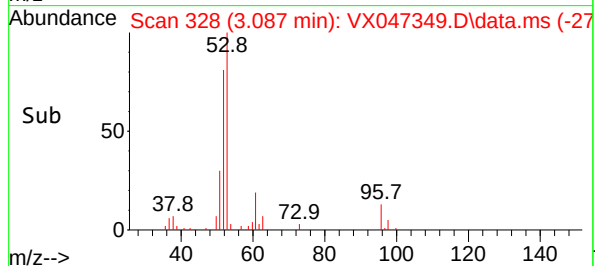
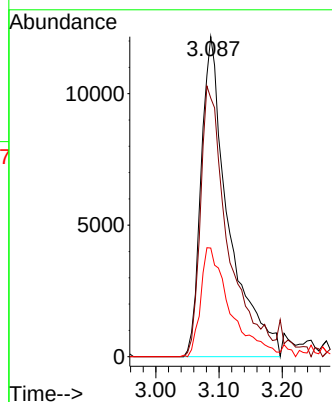
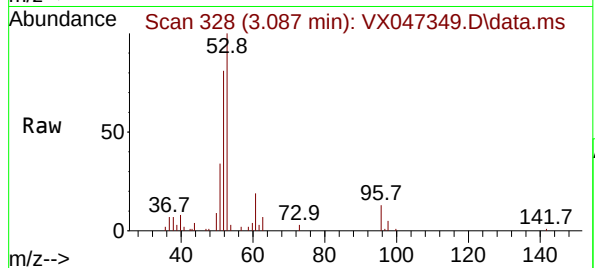
VSTDIC005

Tgt Ion: 53	Resp: 3661
Ion Ratio	Lower Upper
53	100
52	84.8 65.8 98.6
51	36.7 28.2 42.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#16

Acetone

Concen: 24.598 ug/l

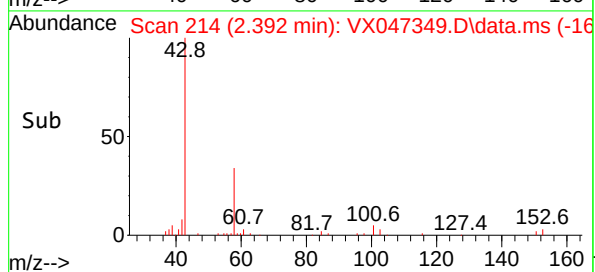
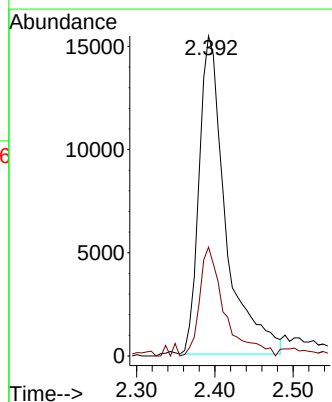
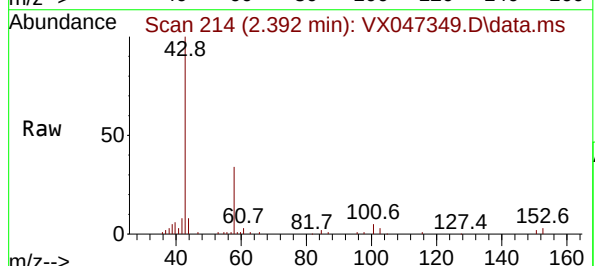
RT: 2.392 min Scan# 214

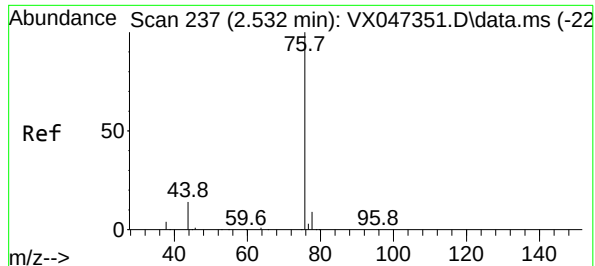
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion: 43	Resp: 36440
Ion Ratio	Lower Upper
43	100
58	34.2 24.8 37.2





#17

Carbon Disulfide

Concen: 4.598 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 4919

Ion Ratio Lower Upper

76 100

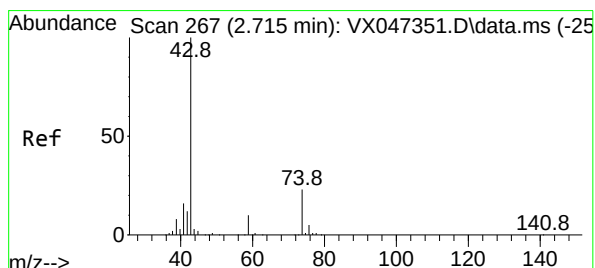
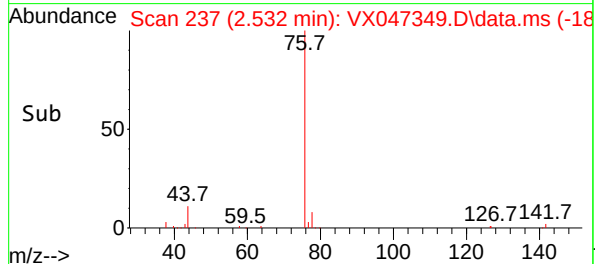
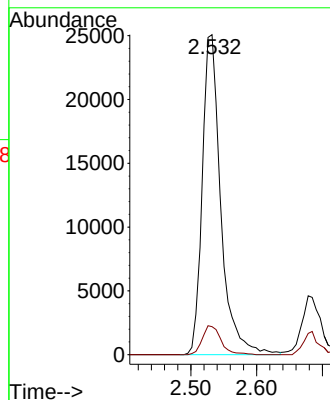
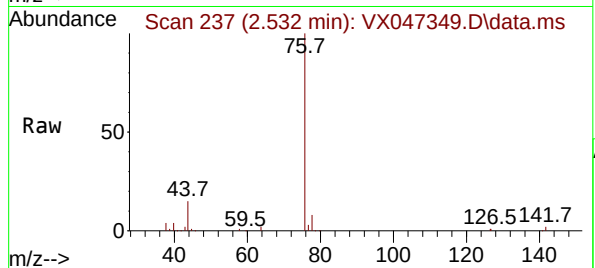
78 8.8 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#18

Methyl Acetate

Concen: 4.547 ug/l

RT: 2.721 min Scan# 268

Delta R.T. 0.006 min

Lab File: VX047349.D

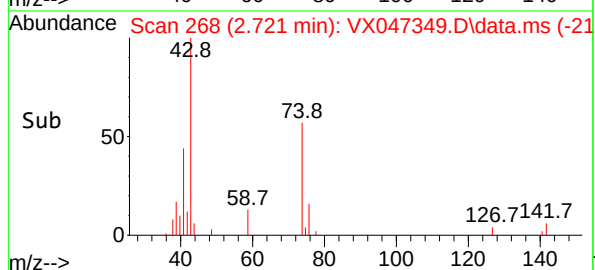
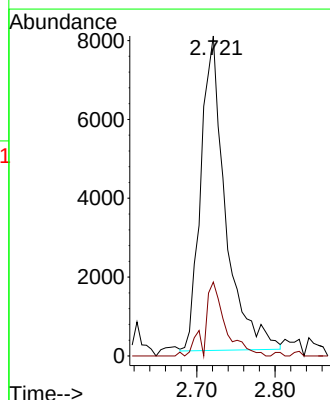
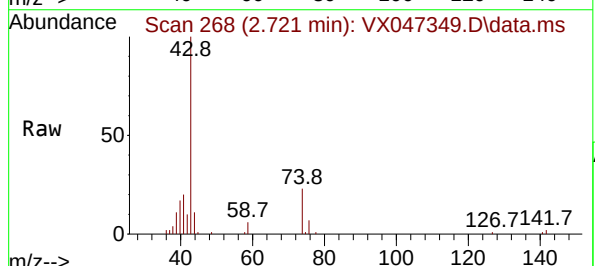
Acq: 15 Aug 2025 09:40

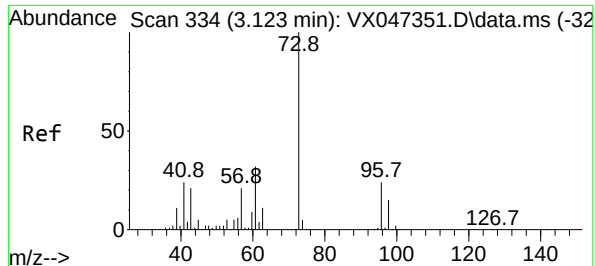
Tgt Ion: 43 Resp: 17456

Ion Ratio Lower Upper

43 100

74 19.6 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 4.617 ug/l

RT: 3.130 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 73 Resp: 4979

Ion Ratio Lower Upper

73 100

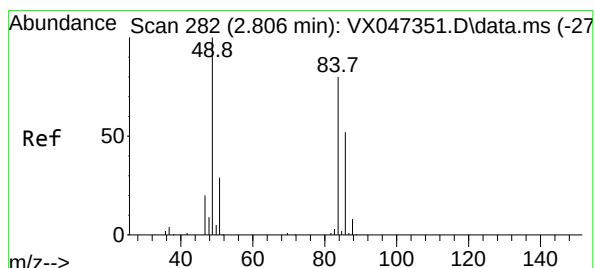
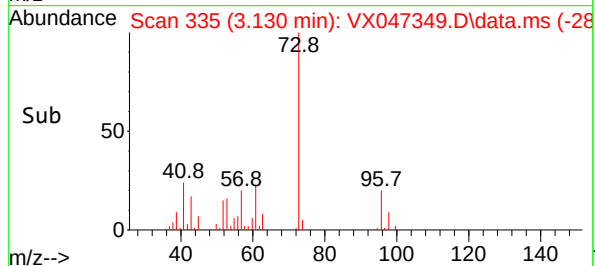
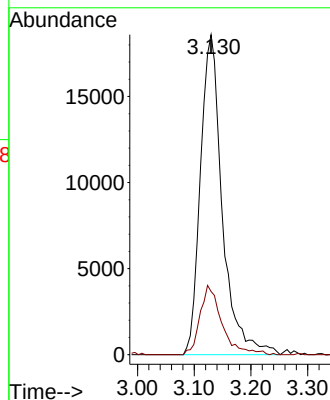
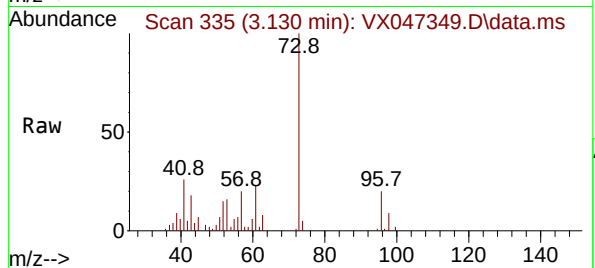
57 21.5 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#20

Methylene Chloride

Concen: 4.633 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion: 84 Resp: 18175

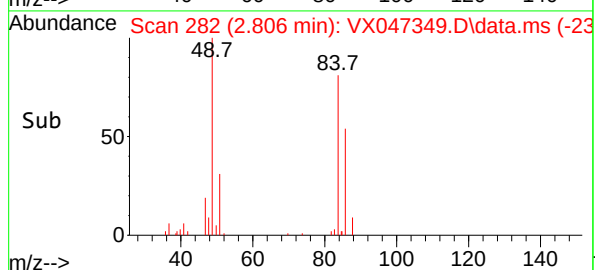
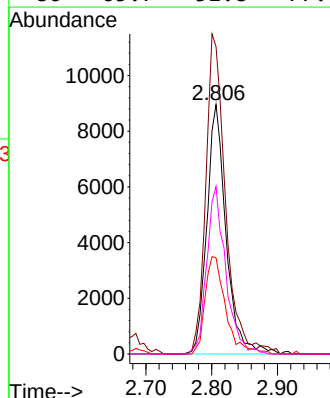
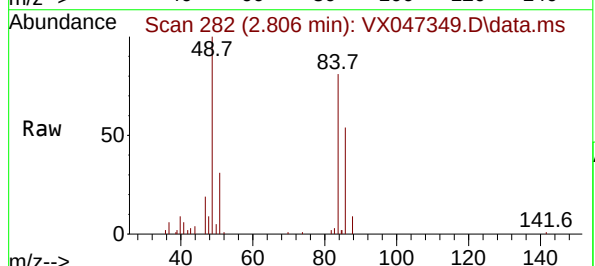
Ion Ratio Lower Upper

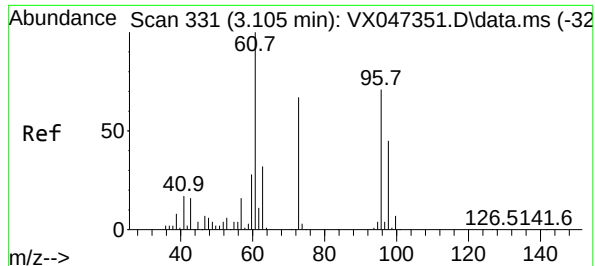
84 100

49 120.7 100.1 150.1

51 37.7 29.5 44.3

86 65.7 51.8 77.8





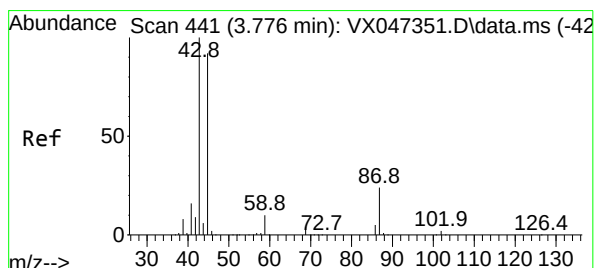
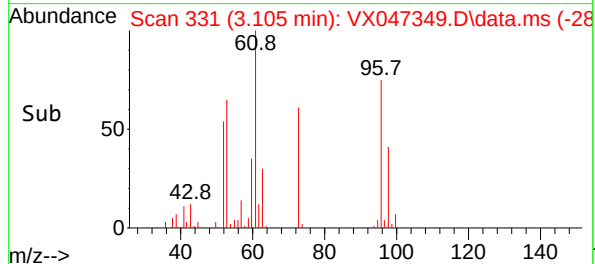
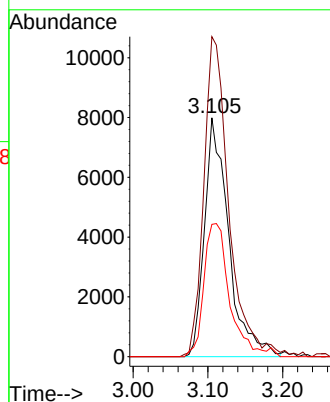
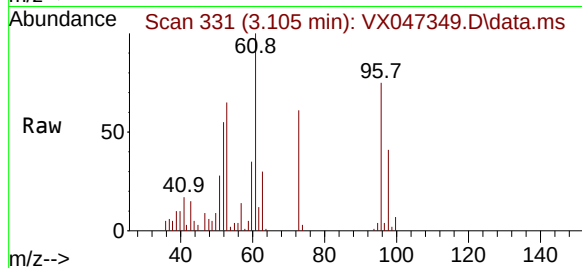
#21
trans-1,2-Dichloroethene
Concen: 4.776 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 17974
Ion Ratio Lower Upper
96 100
61 127.0 112.6 169.0
98 52.5 50.9 76.3

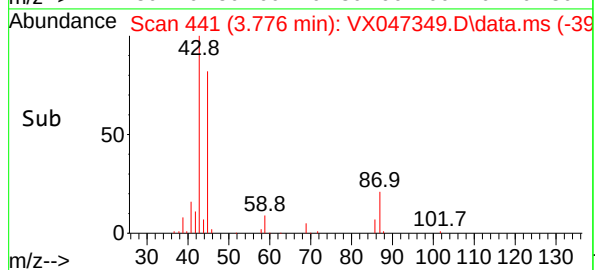
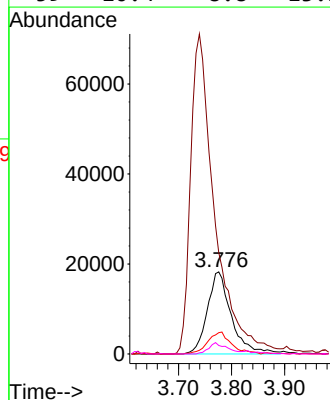
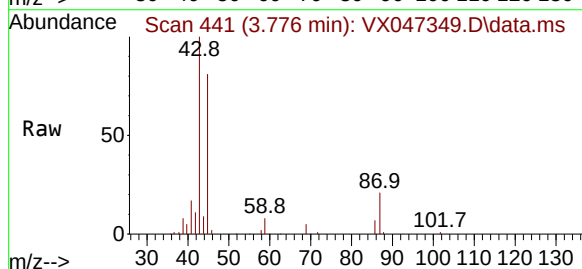
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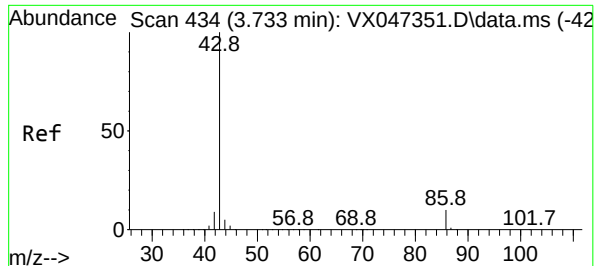
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#22
Diisopropyl ether
Concen: 4.708 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 45 Resp: 57311
Ion Ratio Lower Upper
45 100
43 113.8 86.8 130.2
87 25.9 20.4 30.6
59 10.4 8.8 13.2





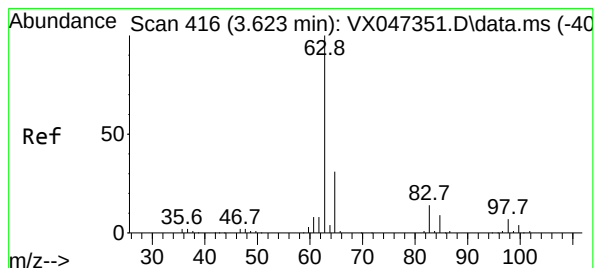
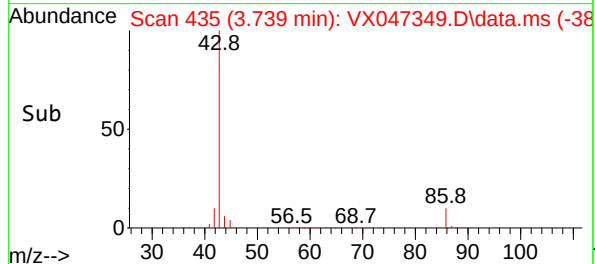
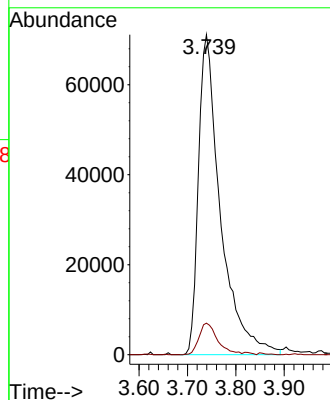
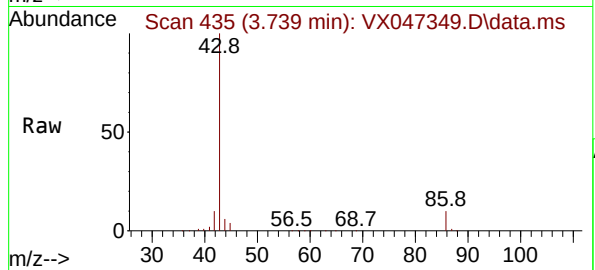
#23
Vinyl Acetate
Concen: 22.525 ug/l
RT: 3.739 min Scan# 41
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 22474
Ion Ratio Lower Upper
43 100
86 9.9 7.9 11.9

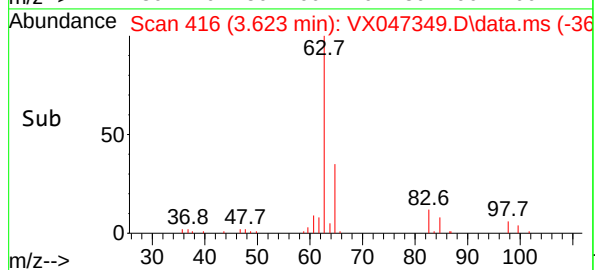
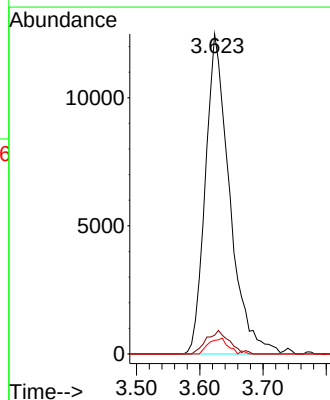
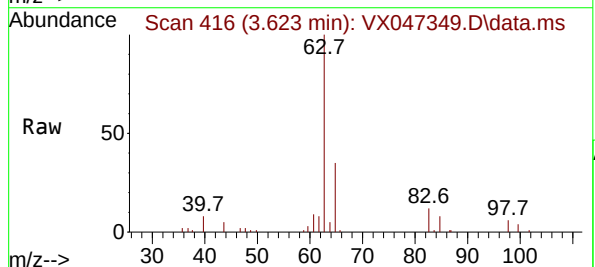
Manual Integrations
APPROVED

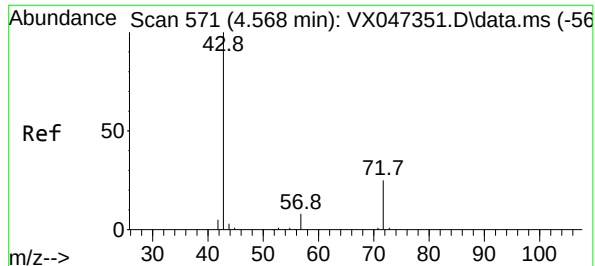
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#24
1,1-Dichloroethane
Concen: 4.831 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 63 Resp: 33241
Ion Ratio Lower Upper
63 100
98 5.8 3.3 9.9
100 4.3 2.1 6.3





#25

2-Butanone

Concen: 23.830 ug/l

RT: 4.581 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 4623

Ion Ratio Lower Upper

43 100

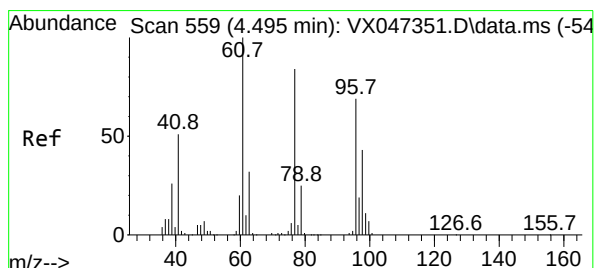
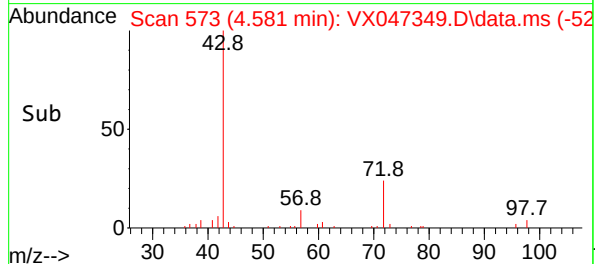
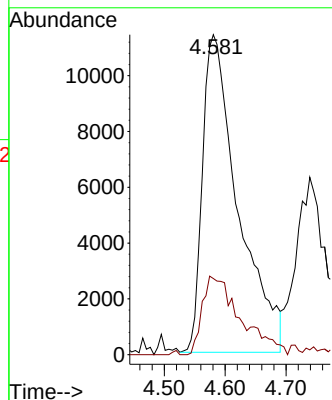
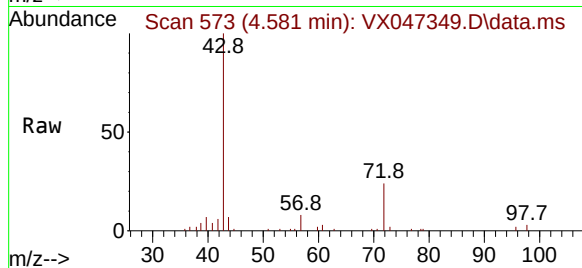
72 23.1 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#26

2,2-Dichloropropane

Concen: 4.684 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX047349.D

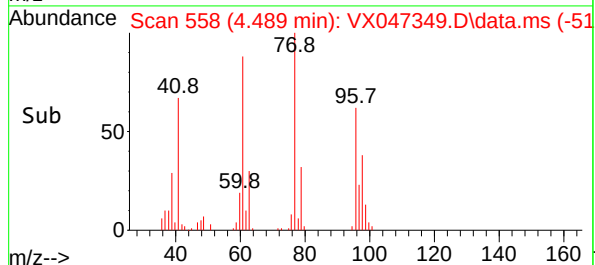
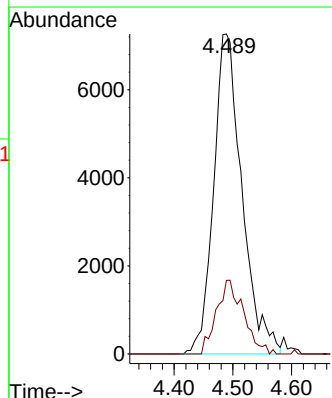
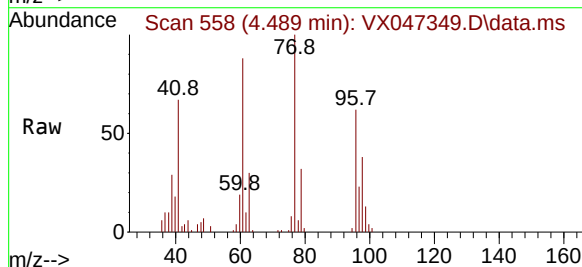
Acq: 15 Aug 2025 09:40

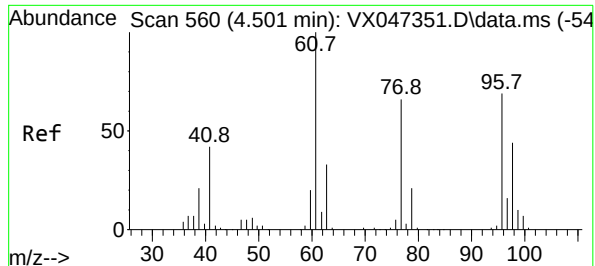
Tgt Ion: 77 Resp: 24325

Ion Ratio Lower Upper

77 100

97 22.0 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 4.868 ug/l

RT: 4.501 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 21338

Ion Ratio Lower Upper

96 100

61 143.6 0.0 296.6

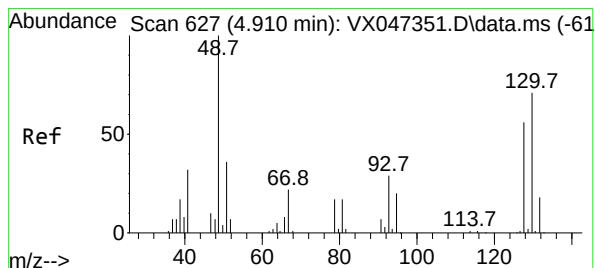
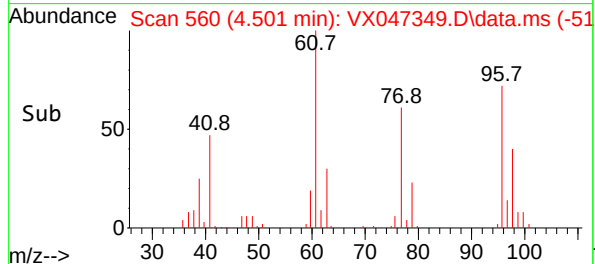
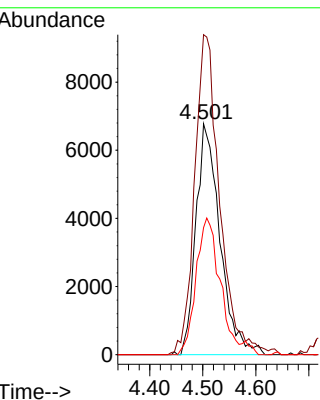
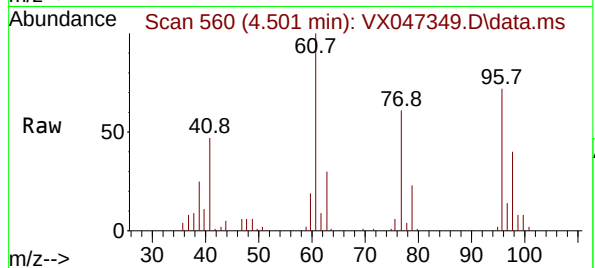
98 60.7 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#28

Bromochloromethane

Concen: 5.338 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

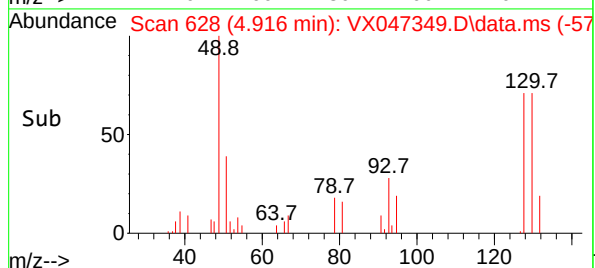
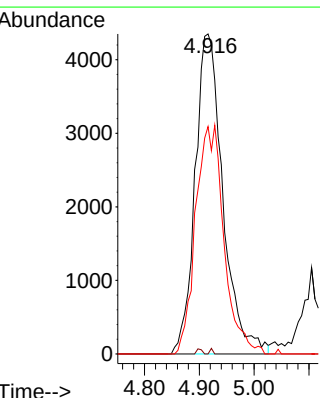
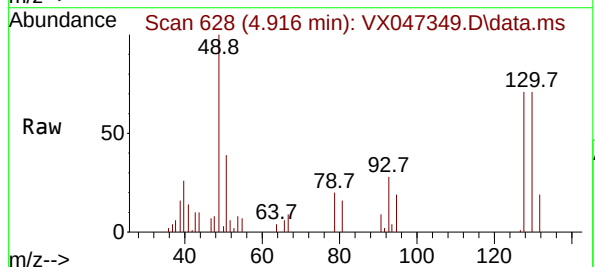
Tgt Ion: 49 Resp: 15283

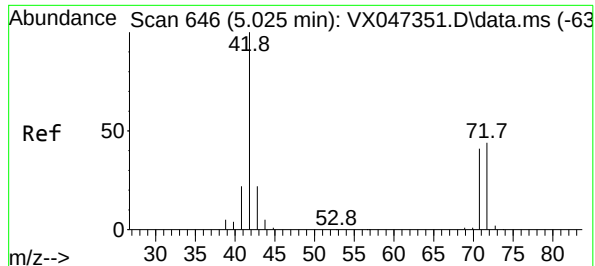
Ion Ratio Lower Upper

49 100

129 0.2 0.0 4.0

130 72.9 59.8 89.6





#29

Tetrahydrofuran

Concen: 23.076 ug/l m

RT: 5.038 min Scan# 64

Delta R.T. 0.012 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

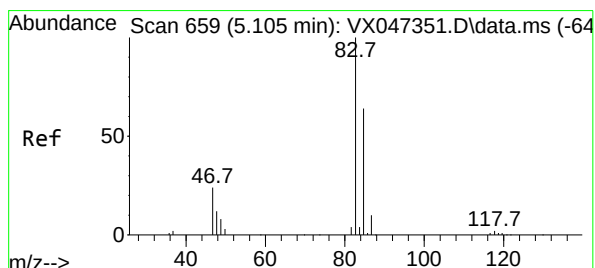
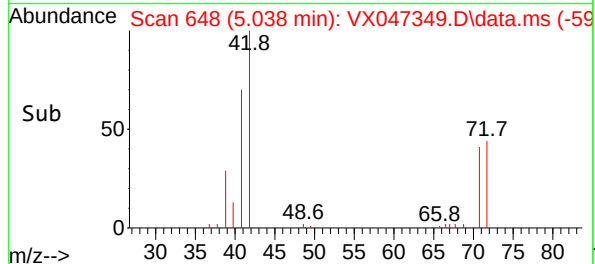
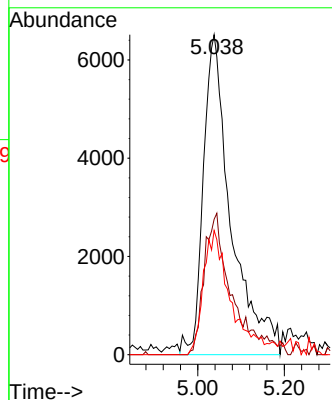
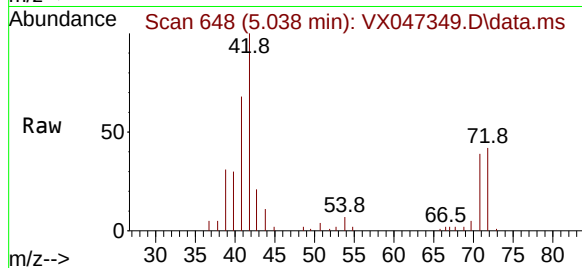
VSTDICC005

Tgt Ion:	42	Resp:	28938
Ion	Ratio	Lower	Upper
42	100		
72	41.4	34.6	51.8
71	38.1	32.6	49.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#30

Chloroform

Concen: 4.955 ug/l

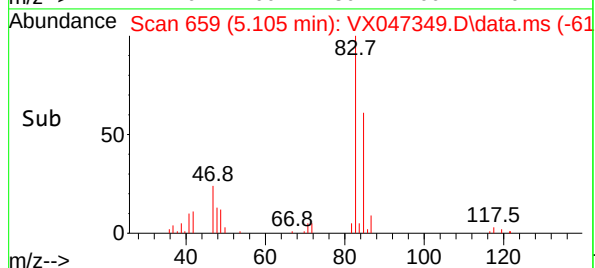
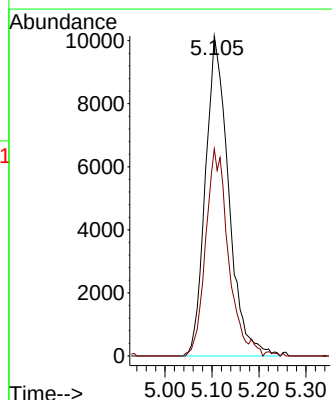
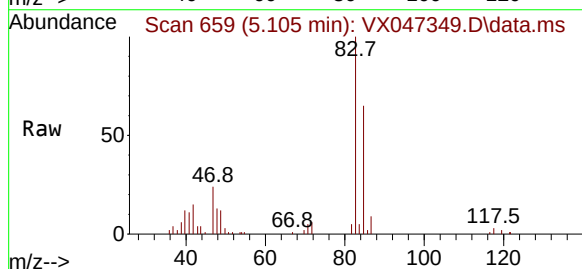
RT: 5.105 min Scan# 659

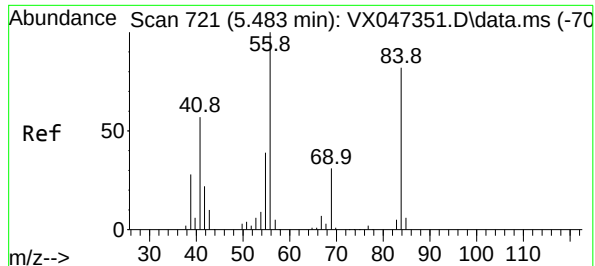
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	83	Resp:	34798
Ion	Ratio	Lower	Upper
83	100		
85	61.9	51.2	76.8





#31

Cyclohexane

Concen: 4.548 ug/l

RT: 5.483 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 2884

Ion Ratio Lower Upper

56 100

69 29.2 24.3 36.5

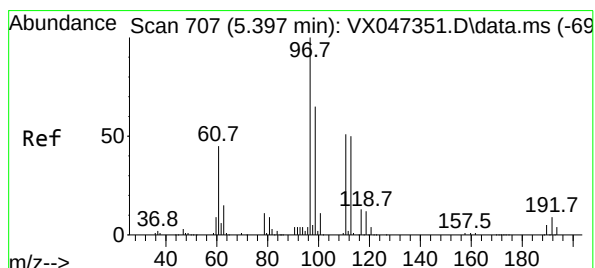
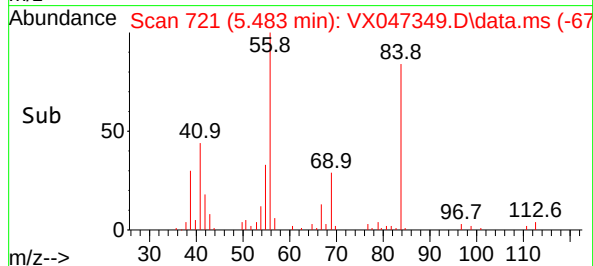
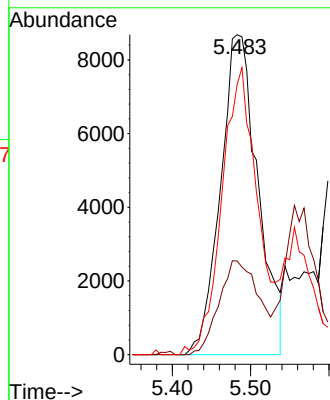
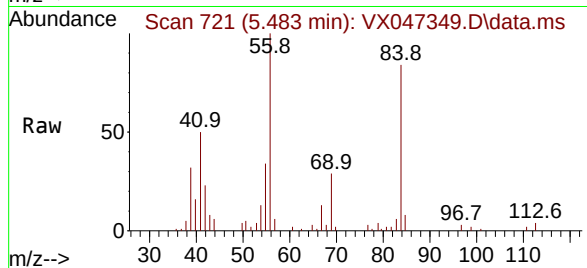
84 92.0 65.3 97.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#32

1,1,1-Trichloroethane

Concen: 4.859 ug/l

RT: 5.404 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

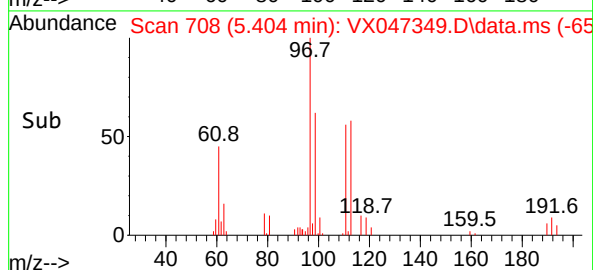
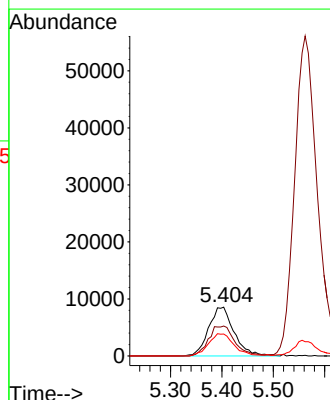
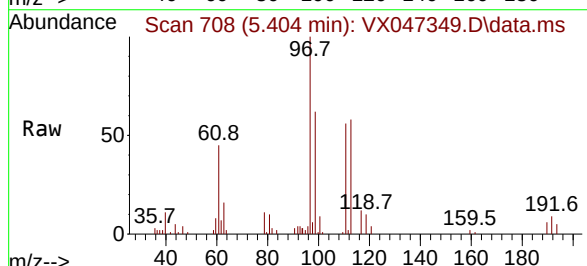
Tgt Ion: 97 Resp: 29367

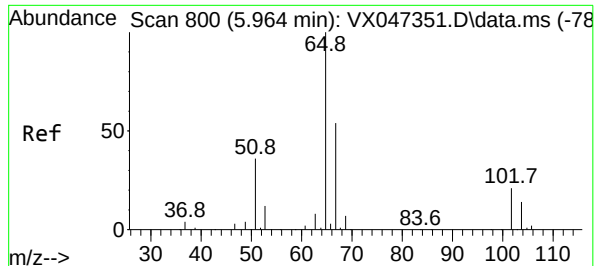
Ion Ratio Lower Upper

97 100

99 63.0 51.4 77.0

61 45.2 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 5.065 ug/l

RT: 5.971 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 1996

Ion Ratio Lower Upper

65 100

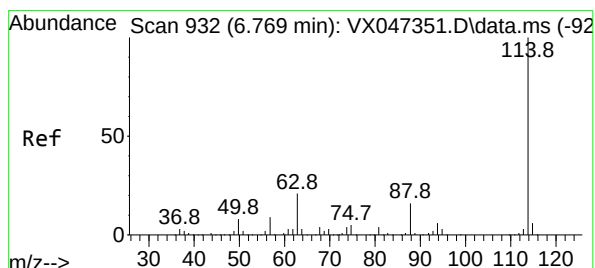
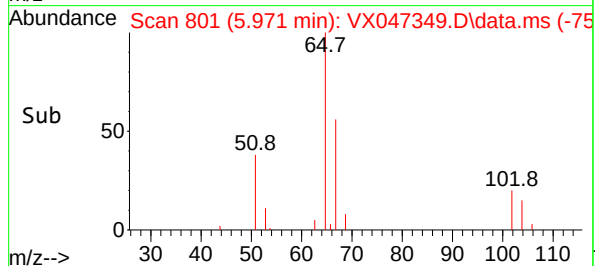
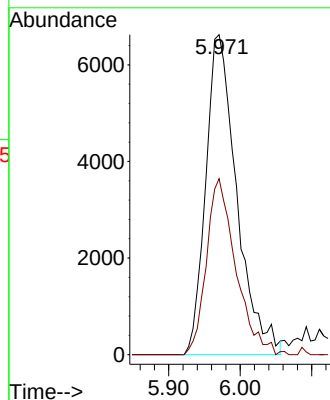
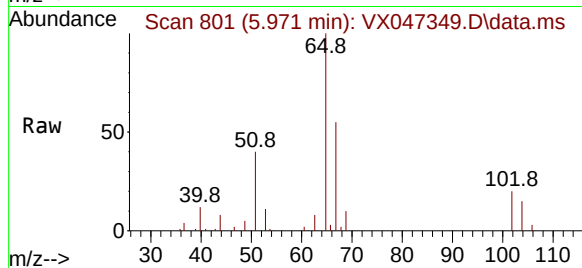
67 52.2 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

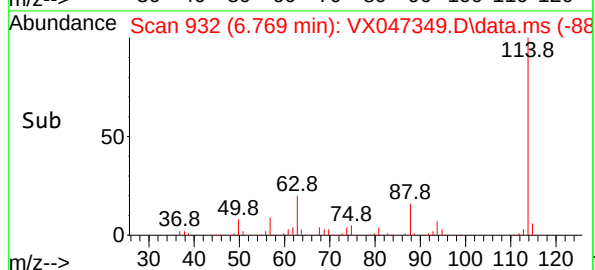
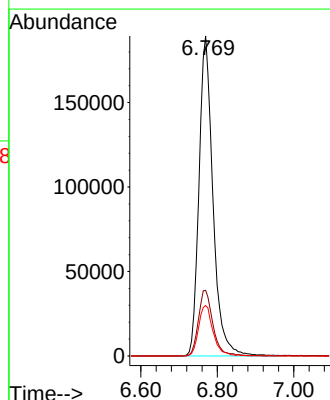
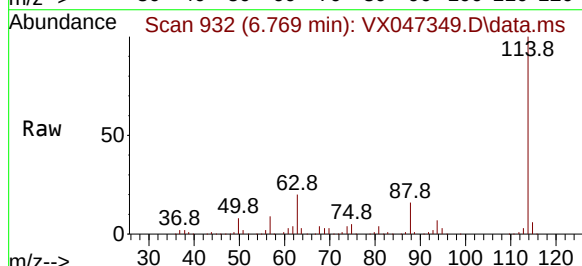
Tgt Ion:114 Resp: 479446

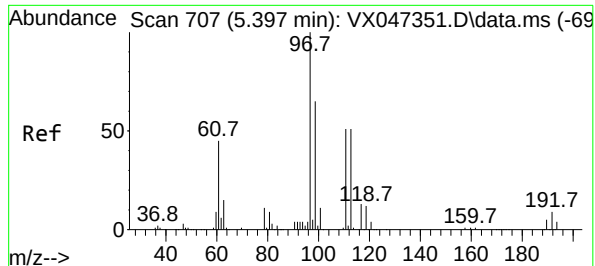
Ion Ratio Lower Upper

114 100

63 23.9 0.0 42.4

88 15.7 0.0 33.0





#35

Dibromofluoromethane

Concen: 4.776 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:113 Resp: 1486

Ion Ratio Lower Upper

113 100

111 106.7 81.4 122.2

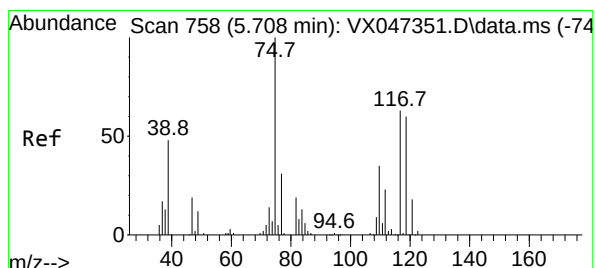
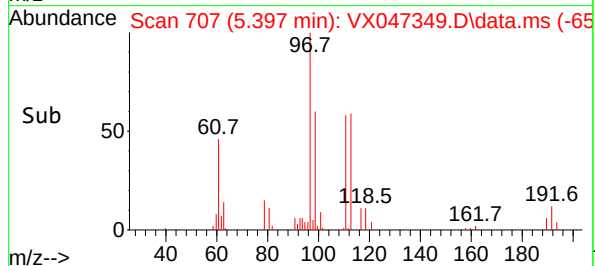
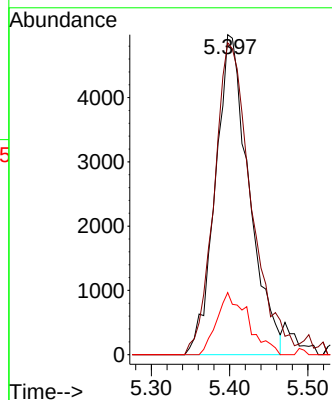
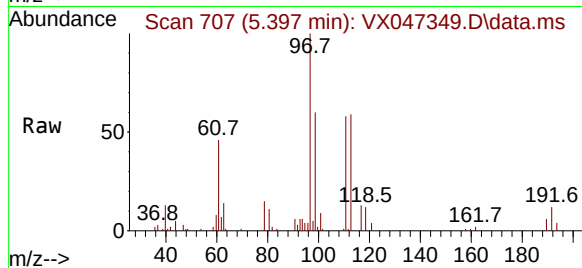
192 18.2 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#36

1,1-Dichloropropene

Concen: 4.641 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

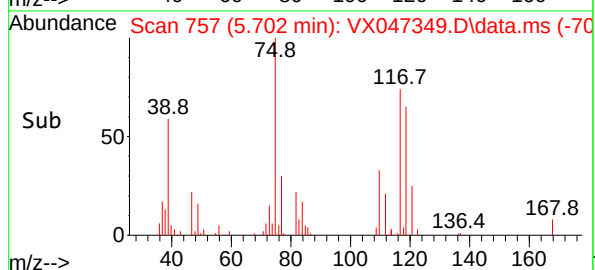
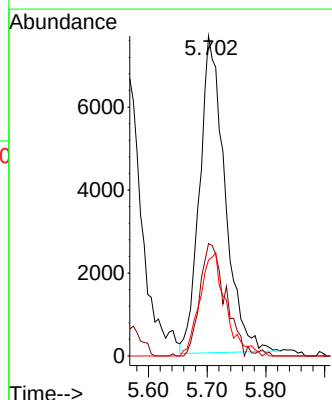
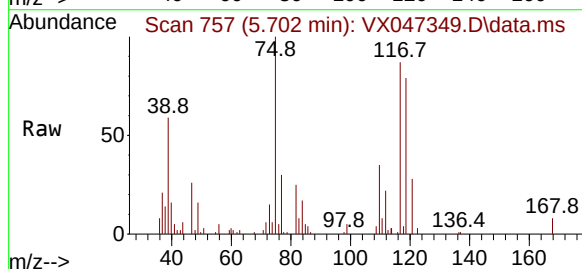
Tgt Ion: 75 Resp: 22796

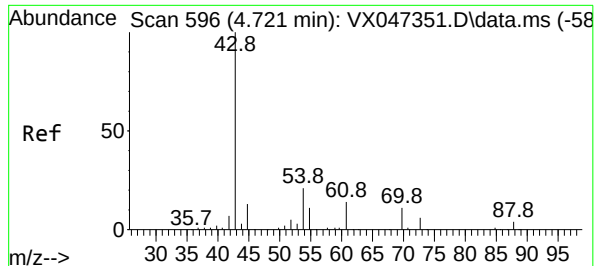
Ion Ratio Lower Upper

75 100

110 36.1 17.4 52.2

77 33.8 24.4 36.6





#37

Ethyl Acetate

Concen: 4.613 ug/l

RT: 4.739 min Scan# 599

Delta R.T. 0.019 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

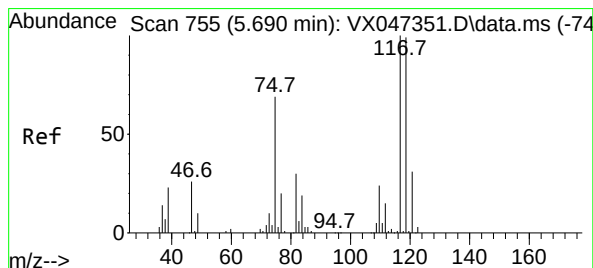
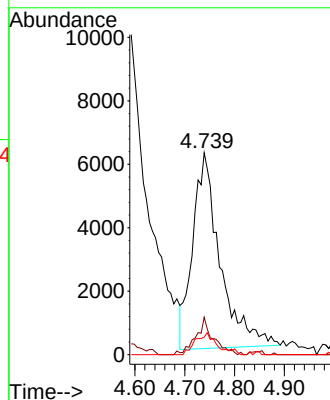
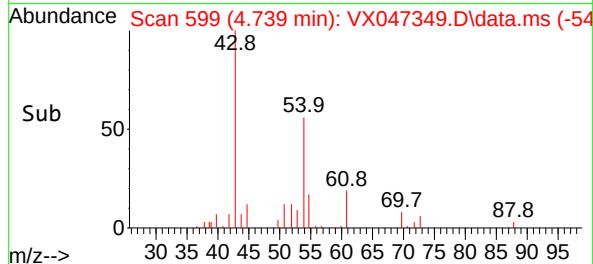
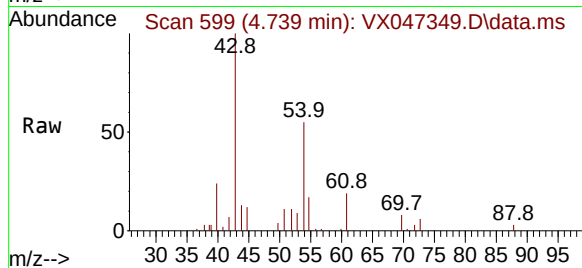
VSTDICC005

Tgt Ion:	43	Resp:	2352
Ion	Ratio	Lower	Upper
43	100		
61	12.2	9.4	14.2
70	8.9	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#38

Carbon Tetrachloride

Concen: 4.791 ug/l

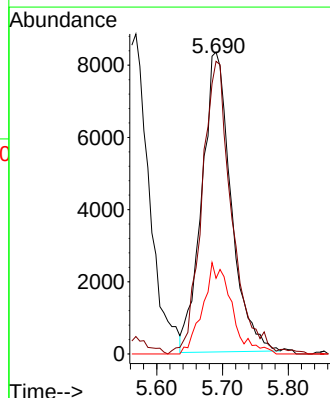
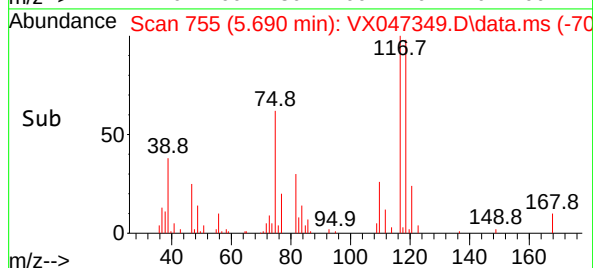
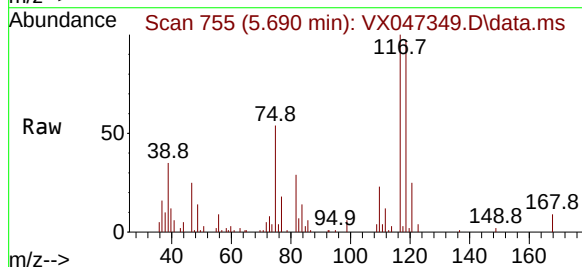
RT: 5.690 min Scan# 755

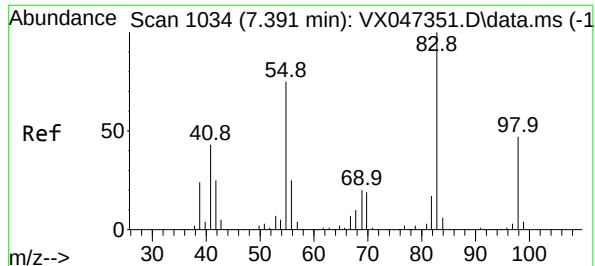
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	117	Resp:	25718
Ion	Ratio	Lower	Upper
117	100		
119	96.4	78.5	117.7
121	25.3	24.7	37.1





#39

Methylcyclohexane

Concen: 4.609 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

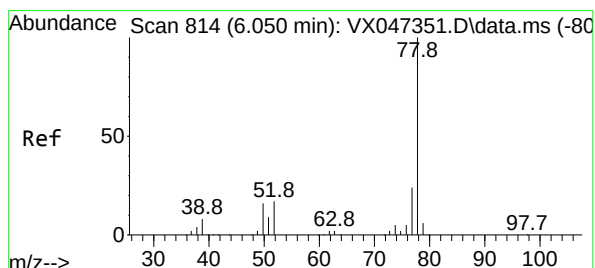
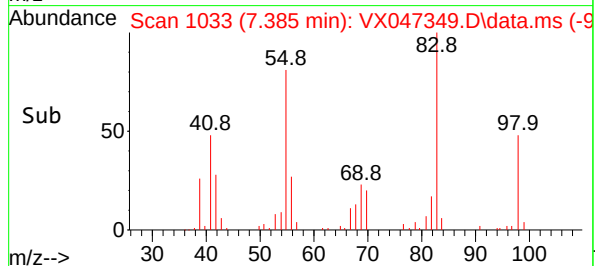
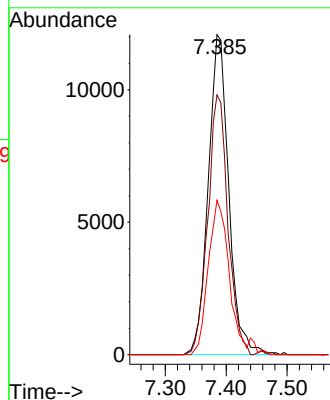
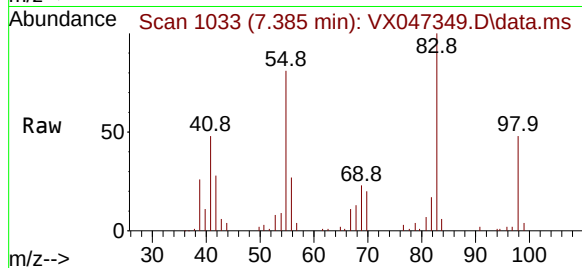
VSTDICC005

Tgt Ion:	83	Resp:	2824
Ion	Ratio	Lower	Upper
83	100		
55	76.5	60.0	90.0
98	45.5	37.2	55.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#40

Benzene

Concen: 4.899 ug/l

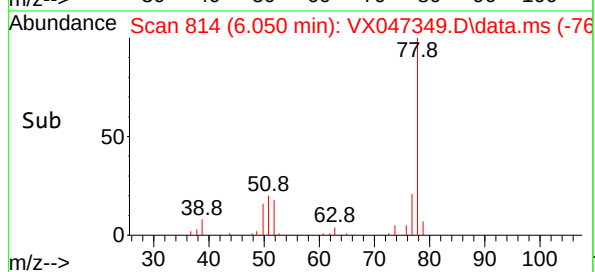
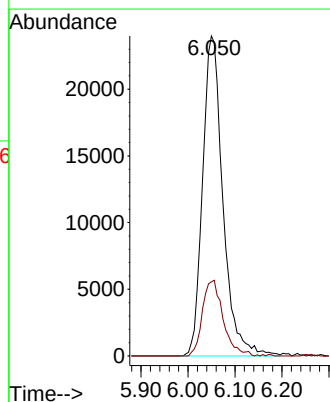
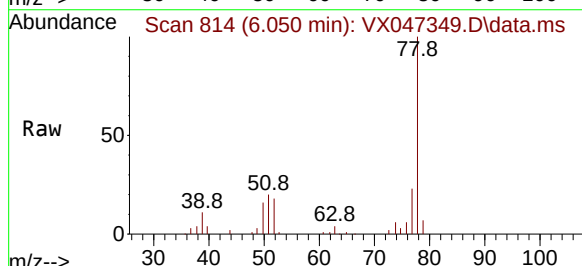
RT: 6.050 min Scan# 814

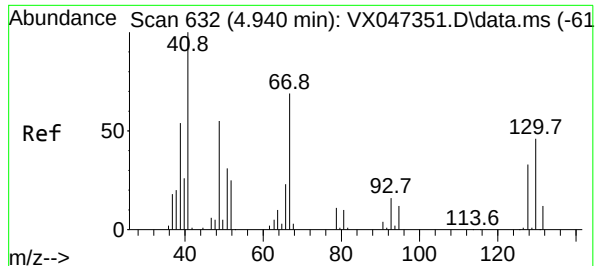
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

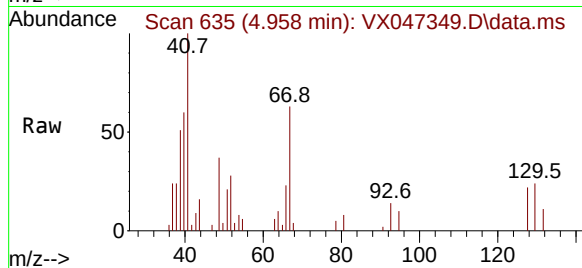
Tgt Ion:	78	Resp:	72021
Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.4





#41
Methacrylonitrile
Concen: 4.271 ug/l
RT: 4.958 min Scan# 61
Delta R.T. 0.018 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

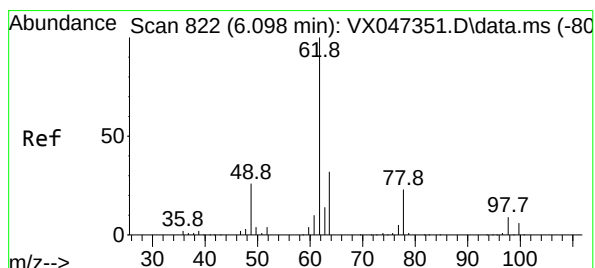
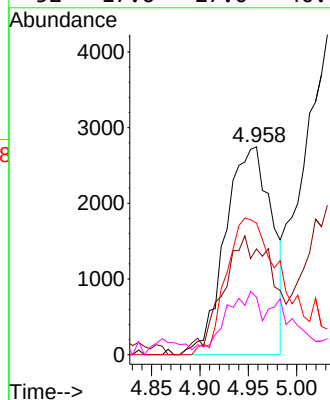
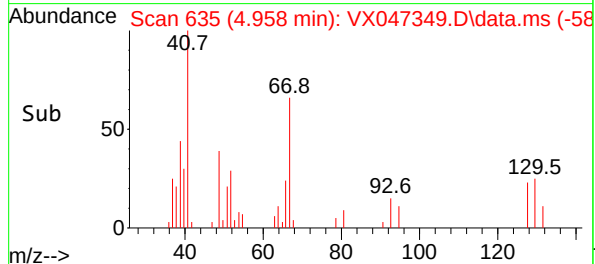
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 41 Resp: 918
Ion Ratio Lower Upper
41 100
39 61.5 45.4 68.2
67 77.7 64.0 96.0
52 17.6 27.0 40.6#

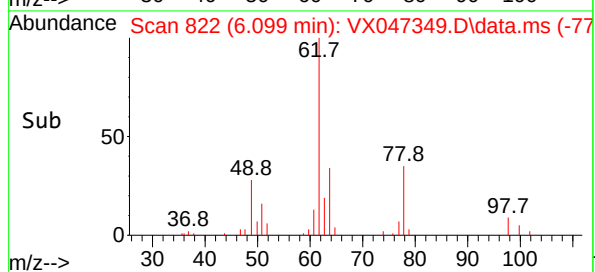
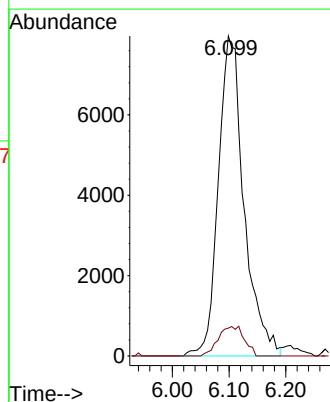
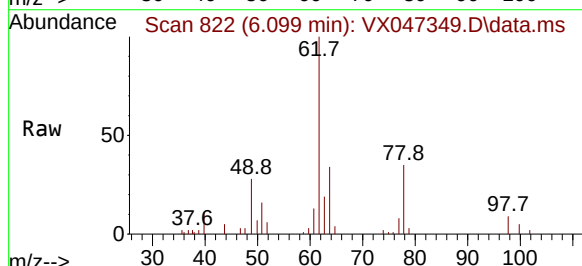
Manual Integrations
APPROVED

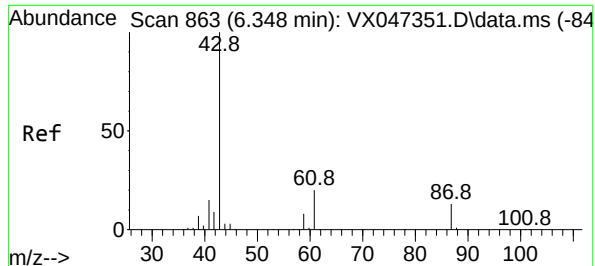
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#42
1,2-Dichloroethane
Concen: 4.796 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 62 Resp: 24979
Ion Ratio Lower Upper
62 100
98 9.4 0.0 18.0





#43

Isopropyl Acetate

Concen: 4.316 ug/l

RT: 6.361 min Scan# 865

Delta R.T. 0.012 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

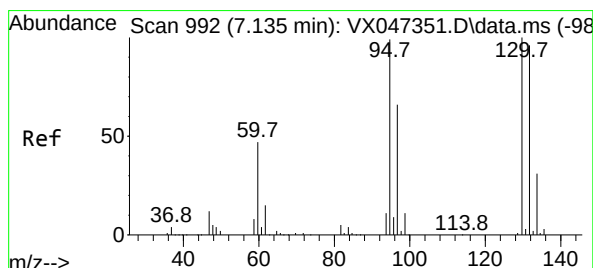
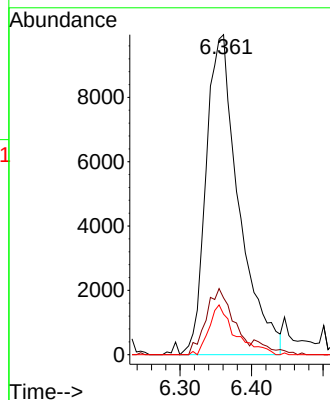
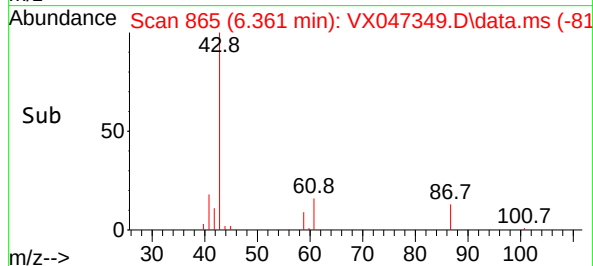
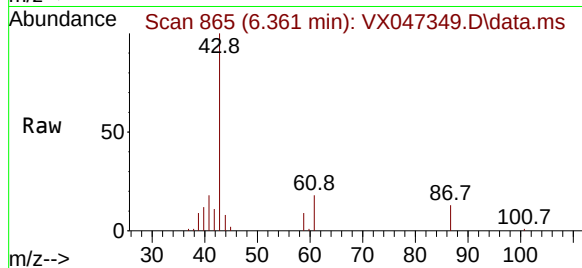
VSTDICC005

Tgt Ion:	43	Resp:	3162
Ion	Ratio	Lower	Upper
43	100		
61	17.1	15.4	23.0
87	12.4	10.2	15.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#44

Trichloroethene

Concen: 4.884 ug/l

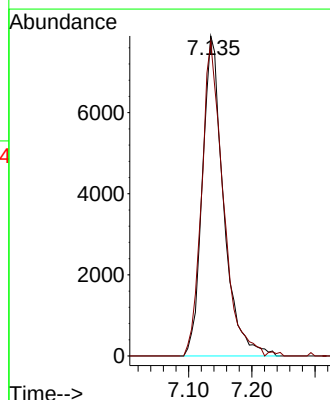
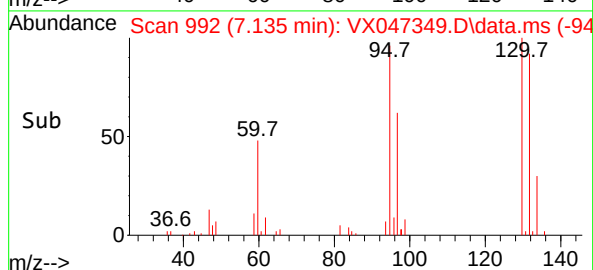
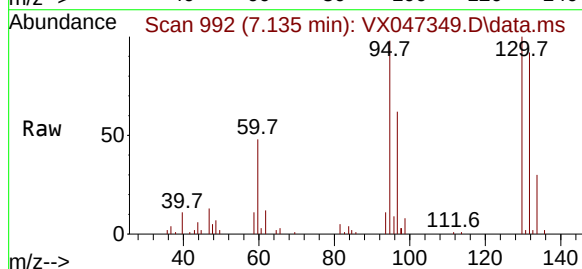
RT: 7.135 min Scan# 992

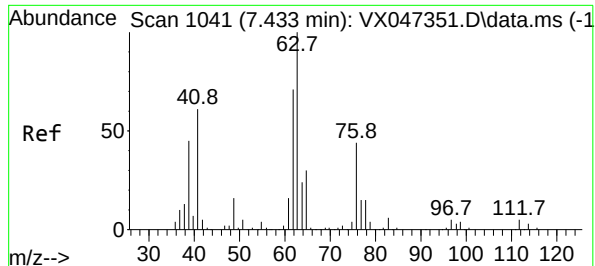
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	130	Resp:	18386
Ion	Ratio	Lower	Upper
130	100		
95	98.2	0.0	198.6





#45

1,2-Dichloropropane

Concen: 4.542 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 16729

Ion Ratio Lower Upper

63 100

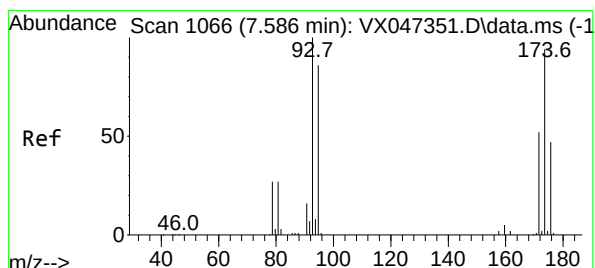
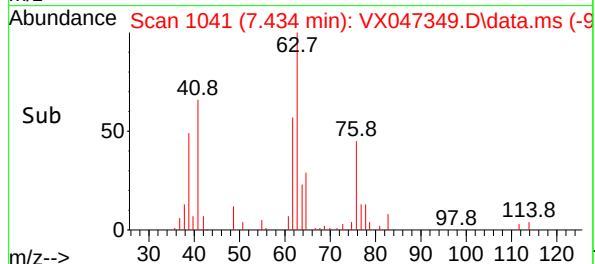
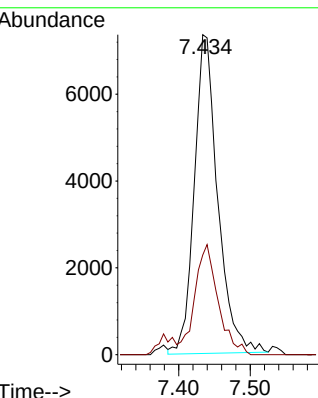
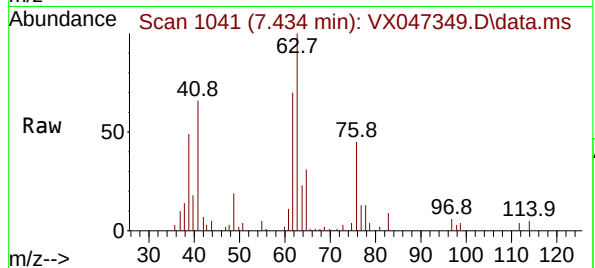
65 32.3 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#46

Dibromomethane

Concen: 4.885 ug/l

RT: 7.592 min Scan# 1067

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

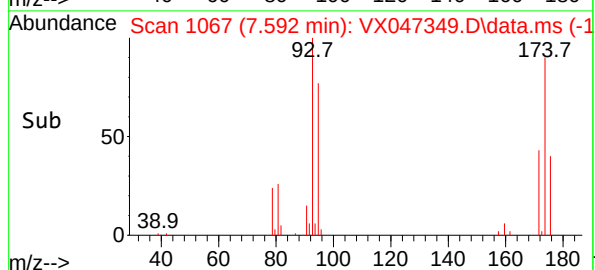
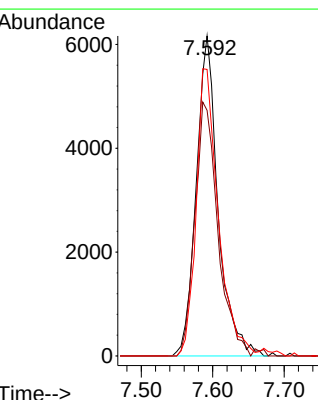
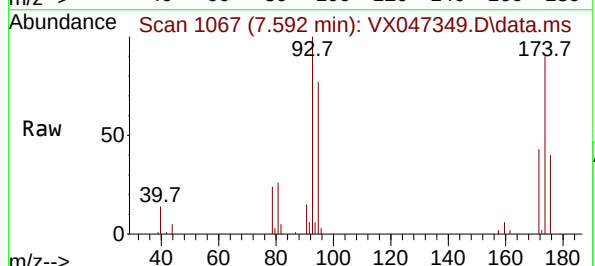
Tgt Ion: 93 Resp: 13062

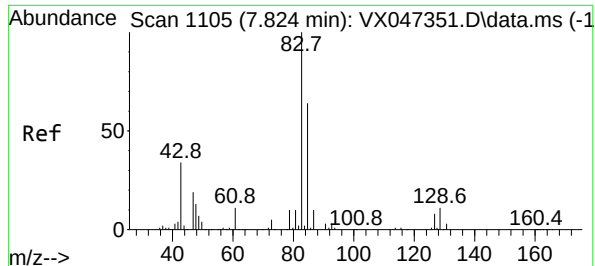
Ion Ratio Lower Upper

93 100

95 83.7 68.0 102.0

174 91.2 75.8 113.6





#47

Bromodichloromethane

Concen: 4.741 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

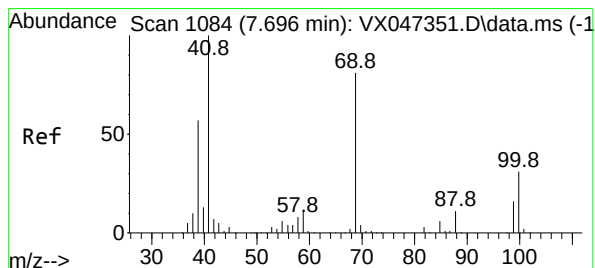
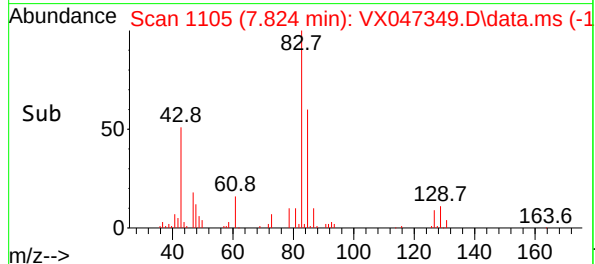
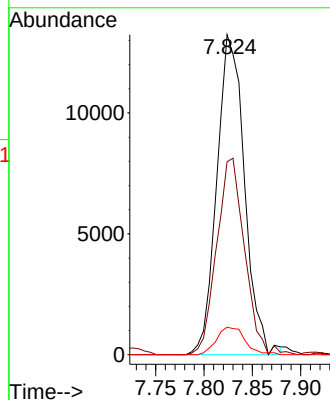
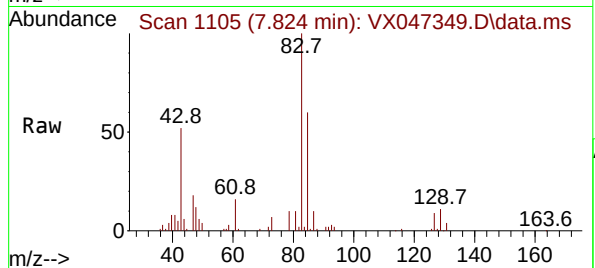
VSTDIC005

Tgt Ion:	83	Resp:	26280
Ion	Ratio	Lower	Upper
83	100		
85	59.8	51.0	76.6
127	8.4	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#48

Methyl methacrylate

Concen: 4.222 ug/l

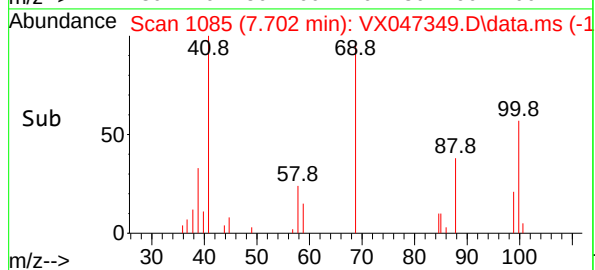
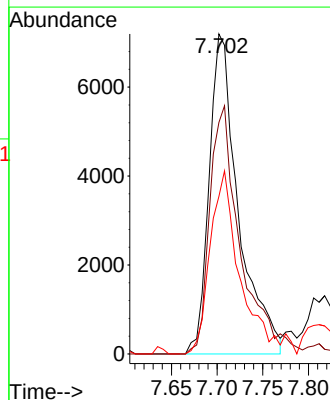
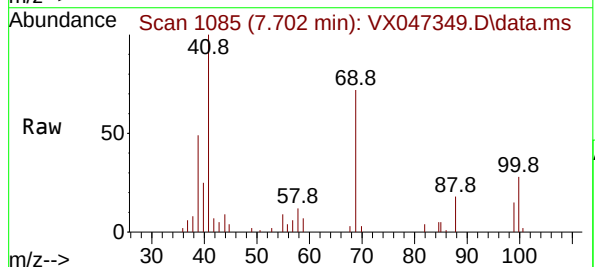
RT: 7.702 min Scan# 1085

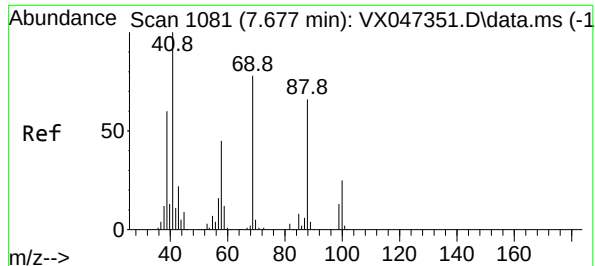
Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	41	Resp:	16053
Ion	Ratio	Lower	Upper
41	100		
69	81.0	65.0	97.4
39	58.8	45.7	68.5





#49

1,4-Dioxane

Concen: 109.635 ug/l m

RT: 7.696 min Scan# 1084

Delta R.T. 0.018 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

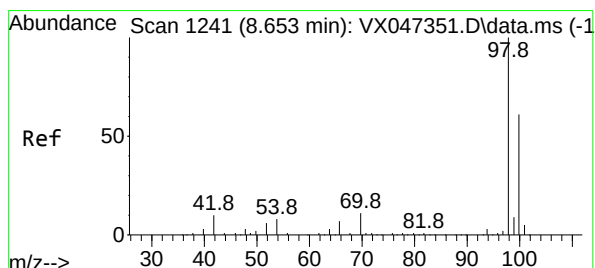
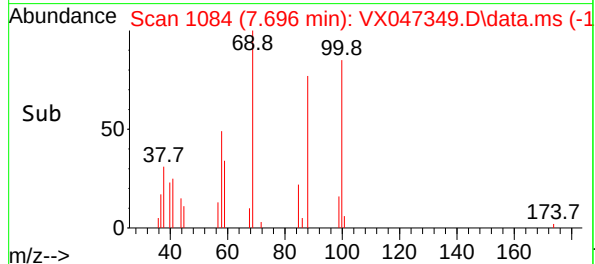
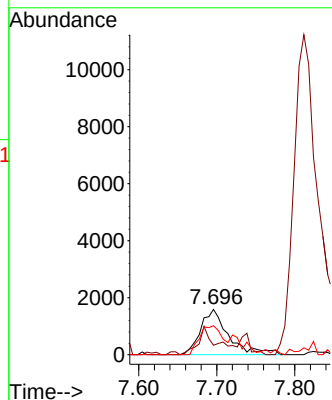
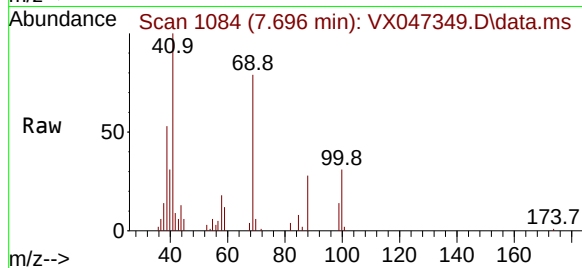
Tgt Ion:	88	Resp:	395
Ion	Ratio	Lower	Upper
88	100		
43	36.5	32.4	48.6
58	52.5	56.9	85.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#50

Toluene-d8

Concen: 4.987 ug/l

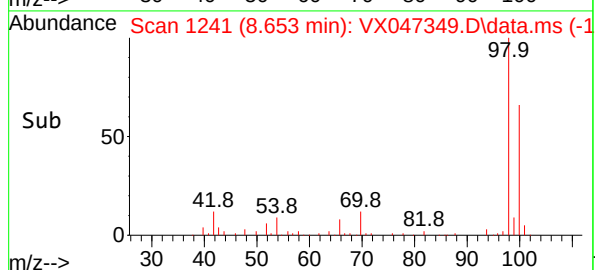
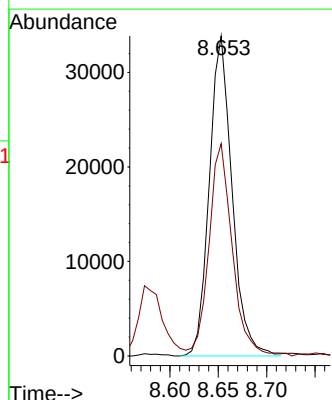
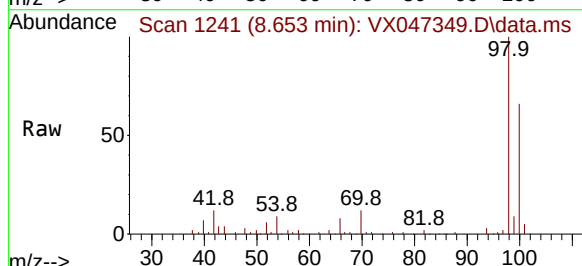
RT: 8.653 min Scan# 1241

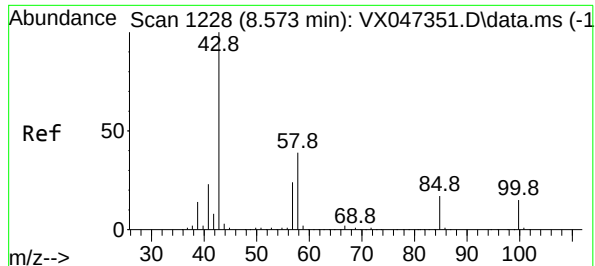
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	98	Resp:	55469
Ion	Ratio	Lower	Upper
98	100		
100	68.1	53.9	80.9





#51

4-Methyl-2-Pentanone

Concen: 23.221 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 9789

Ion Ratio Lower Upper

43 100

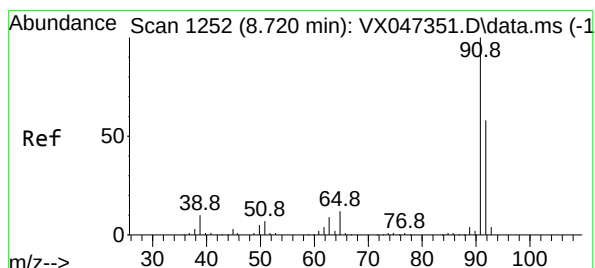
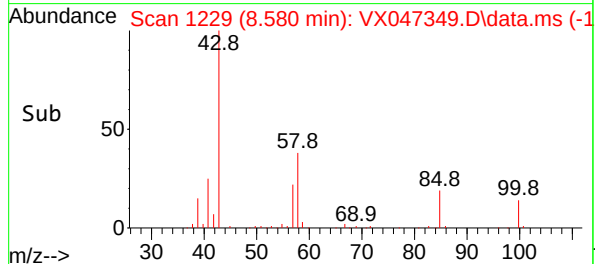
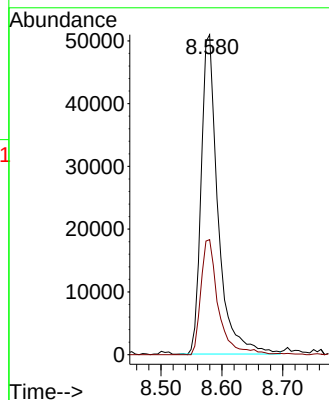
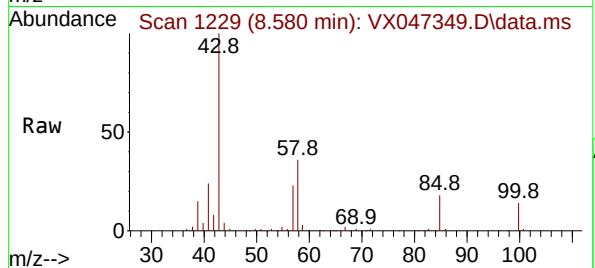
58 37.3 31.2 46.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#52

Toluene

Concen: 4.854 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX047349.D

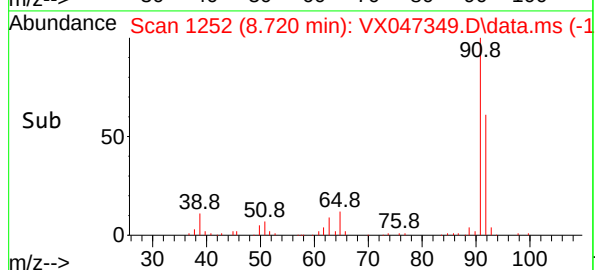
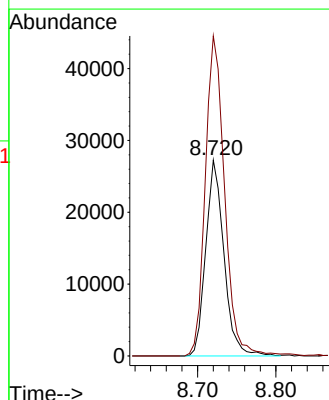
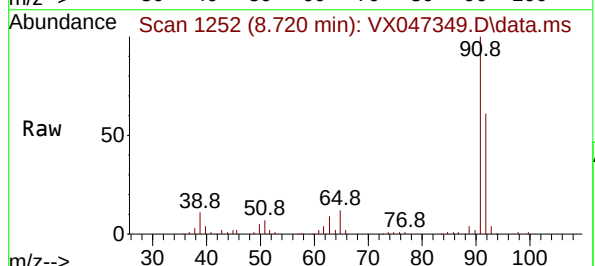
Acq: 15 Aug 2025 09:40

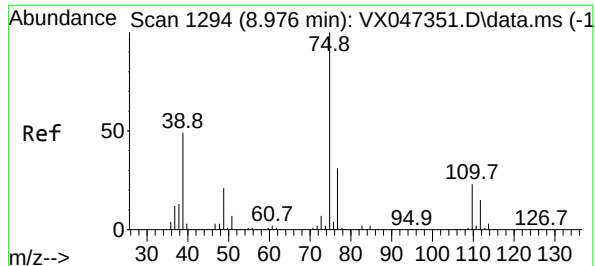
Tgt Ion: 92 Resp: 44099

Ion Ratio Lower Upper

92 100

91 173.0 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 4.403 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 21300

Ion Ratio Lower Upper

75 100

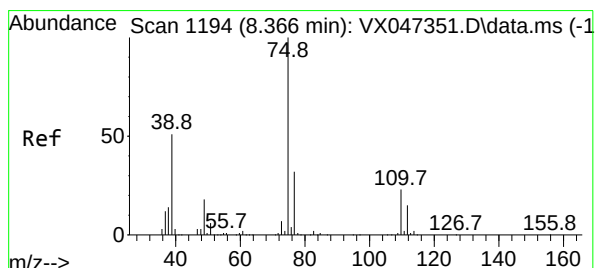
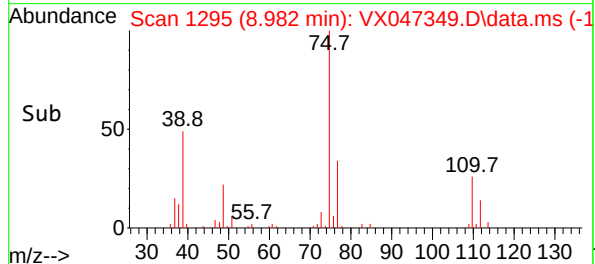
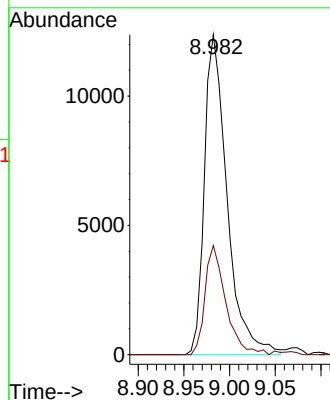
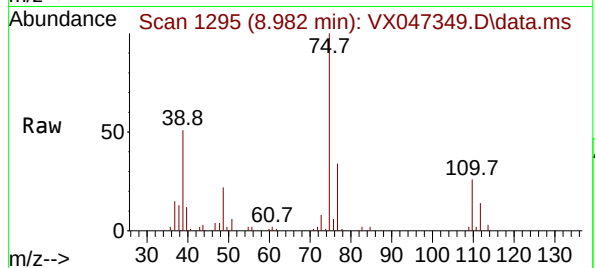
77 34.1 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#54

cis-1,3-Dichloropropene

Concen: 4.652 ug/l

RT: 8.373 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

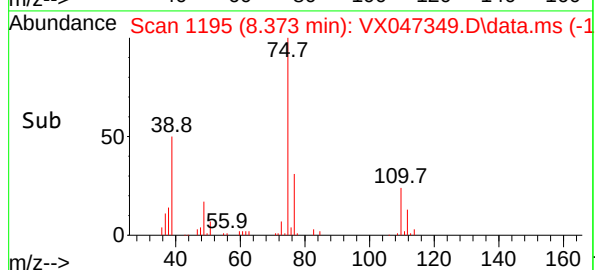
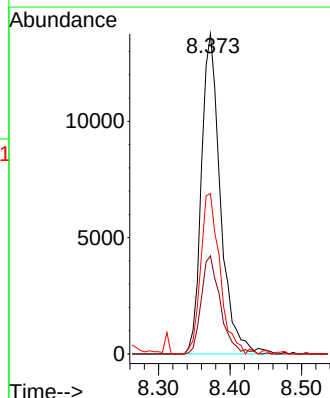
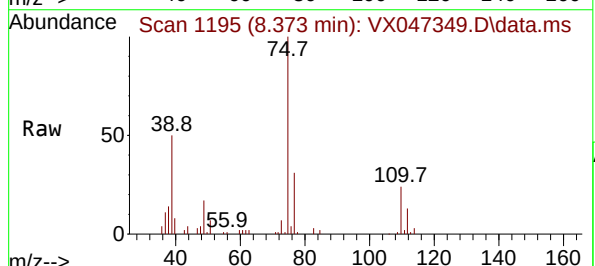
Tgt Ion: 75 Resp: 25475

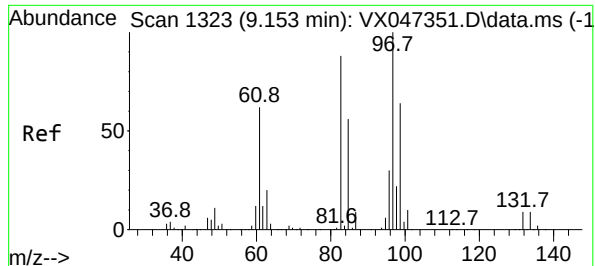
Ion Ratio Lower Upper

75 100

77 30.6 25.6 38.4

39 57.4 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 4.972 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 97 Resp: 17150

Ion Ratio Lower Upper

97 100

83 67.7 70.6 106.0

85 47.4 44.7 67.1

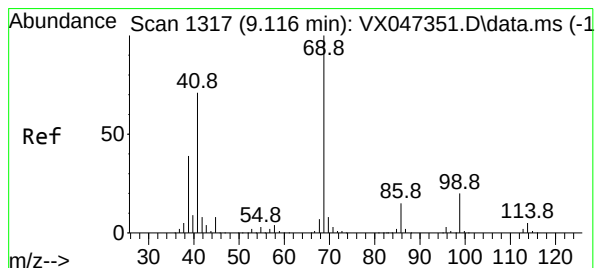
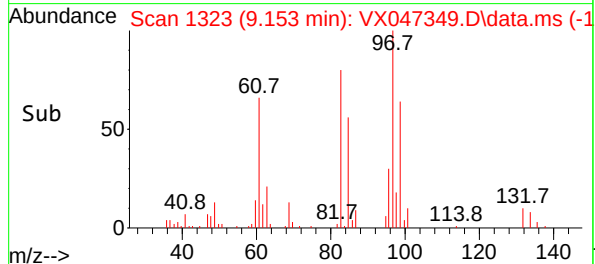
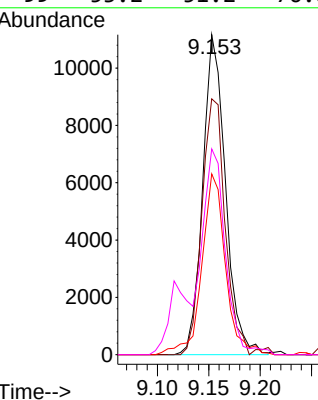
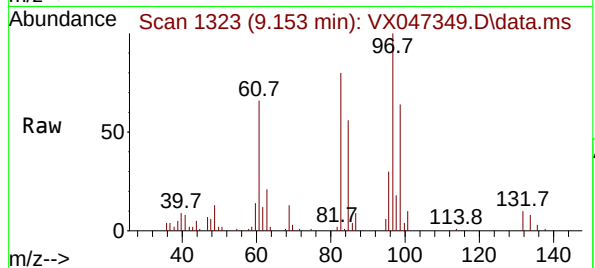
99 53.2 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#56

Ethyl methacrylate

Concen: 4.397 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

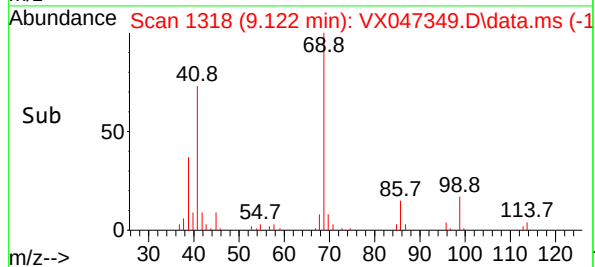
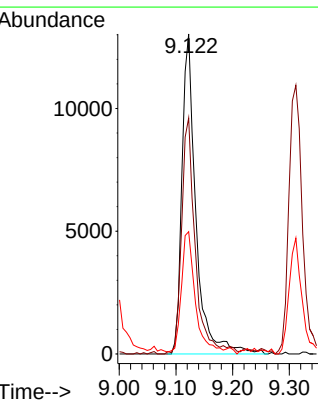
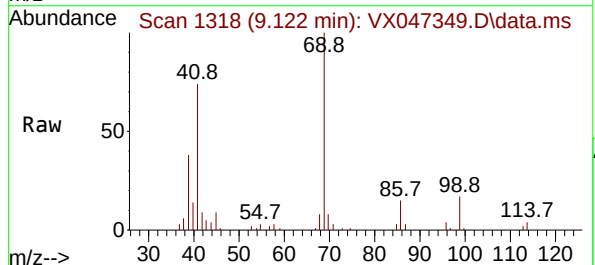
Tgt Ion: 69 Resp: 22362

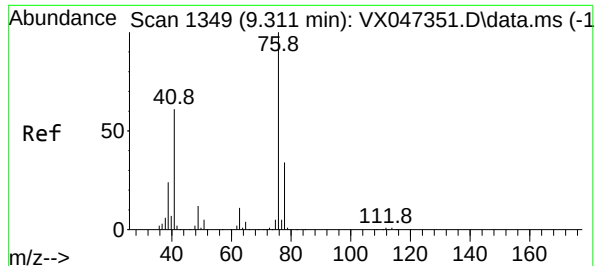
Ion Ratio Lower Upper

69 100

41 72.2 55.3 82.9

39 36.4 30.2 45.2





#57

1,3-Dichloropropane

Concen: 4.821 ug/l

RT: 9.311 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 2833

Ion Ratio Lower Upper

76 100

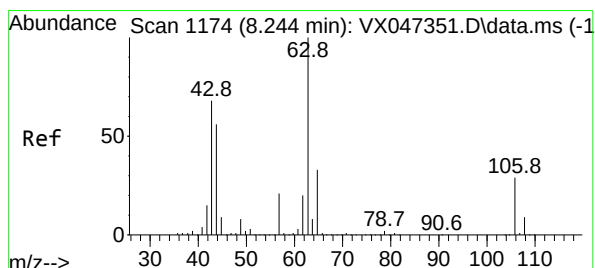
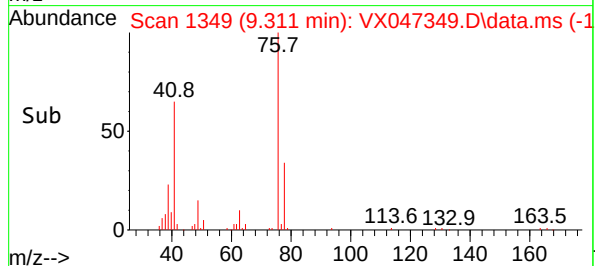
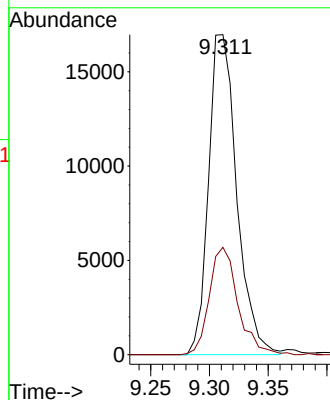
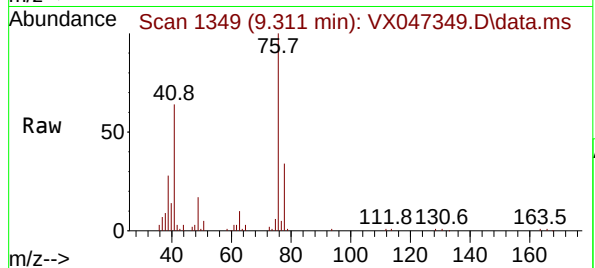
78 34.0 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 26.559 ug/l

RT: 8.245 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047349.D

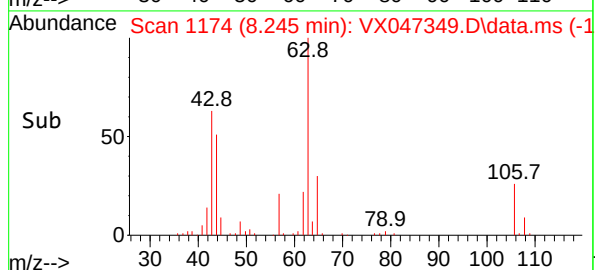
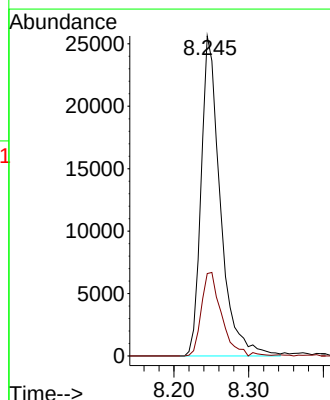
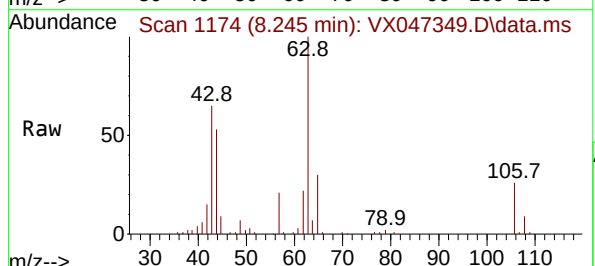
Acq: 15 Aug 2025 09:40

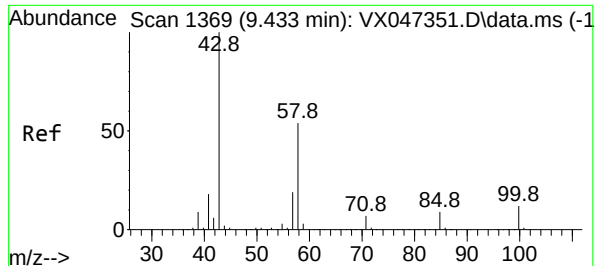
Tgt Ion: 63 Resp: 45735

Ion Ratio Lower Upper

63 100

106 27.6 22.8 34.2





#59

2-Hexanone

Concen: 23.375 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 68164

Ion Ratio Lower Upper

43 100

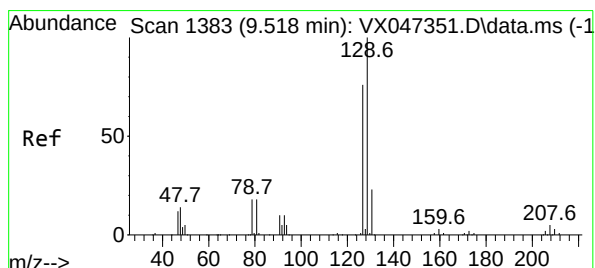
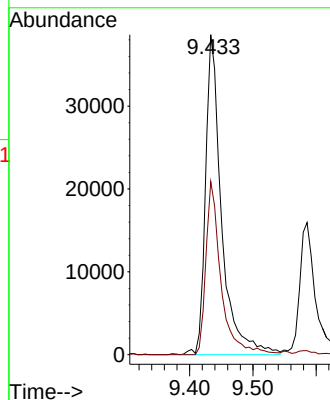
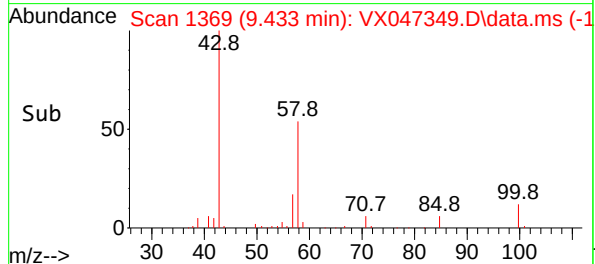
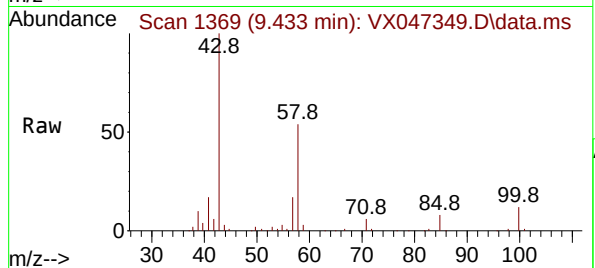
58 50.9 26.9 80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#60

Dibromochloromethane

Concen: 4.820 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047349.D

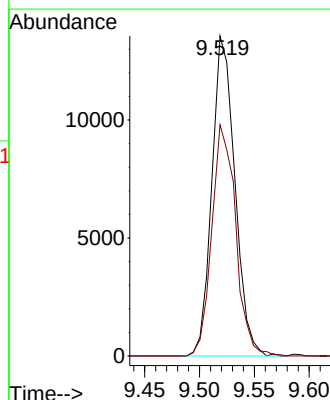
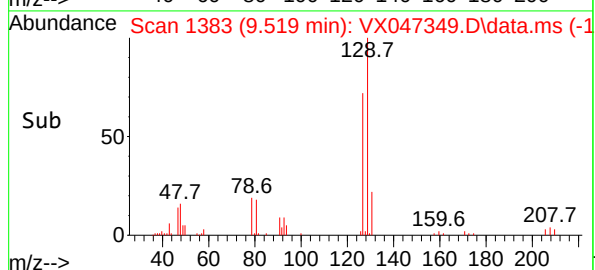
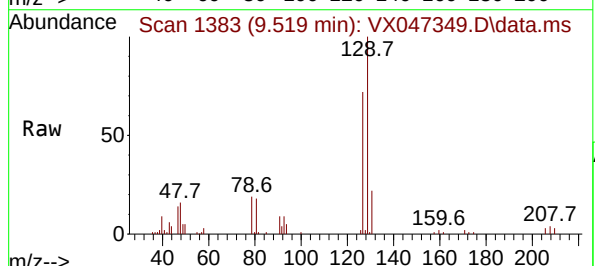
Acq: 15 Aug 2025 09:40

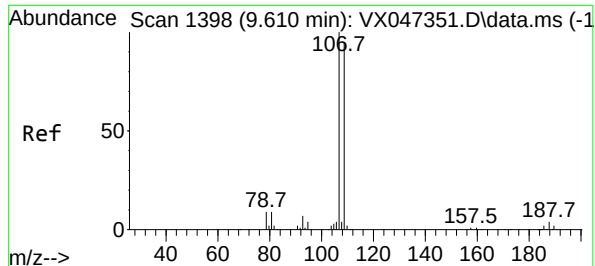
Tgt Ion:129 Resp: 19760

Ion Ratio Lower Upper

129 100

127 75.1 38.9 116.6





#61

1,2-Dibromoethane

Concen: 4.823 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:107 Resp: 17154

Ion Ratio Lower Upper

107 100

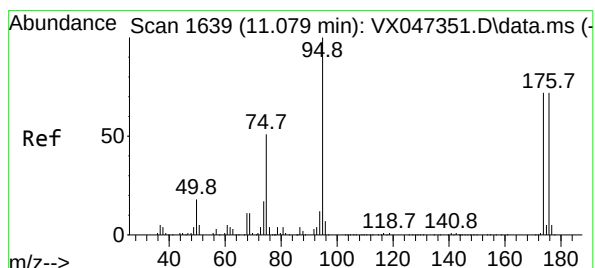
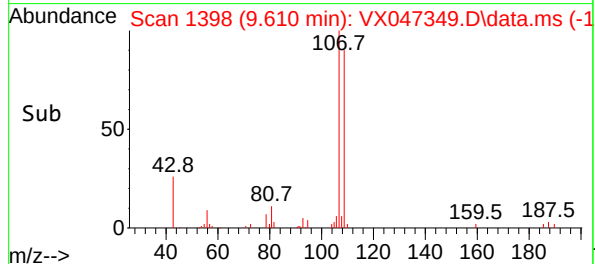
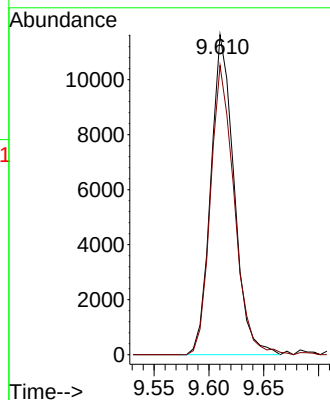
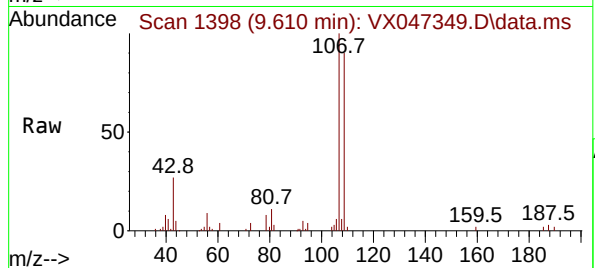
109 92.2 76.2 114.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#62

4-Bromofluorobenzene

Concen: 5.150 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

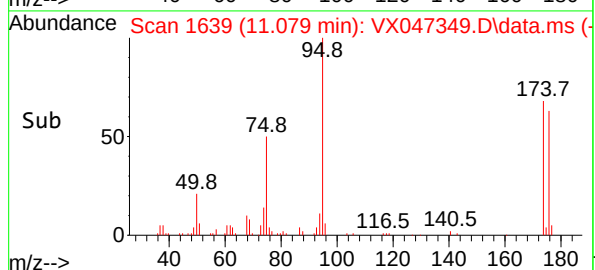
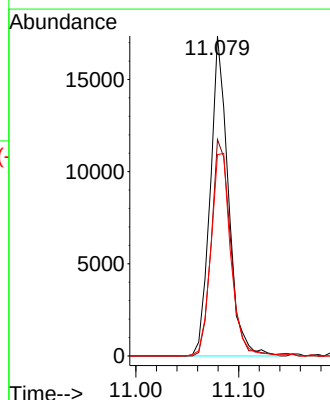
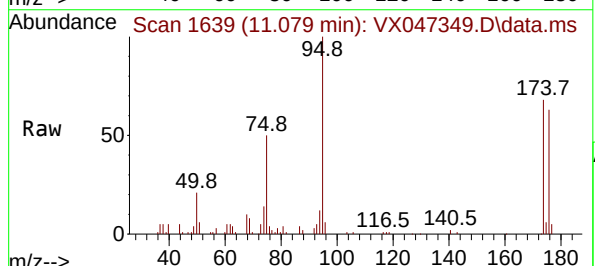
Tgt Ion: 95 Resp: 21138

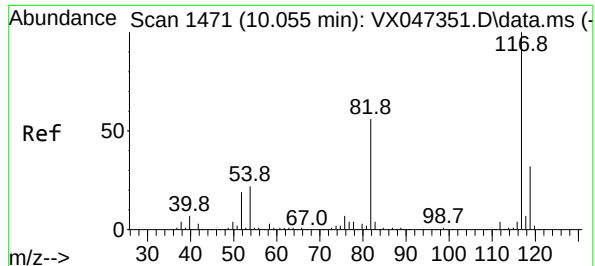
Ion Ratio Lower Upper

95 100

174 72.1 0.0 148.0

176 70.5 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:117 Resp: 43459

Ion Ratio Lower Upper

117 100

82 55.3 45.0 67.4

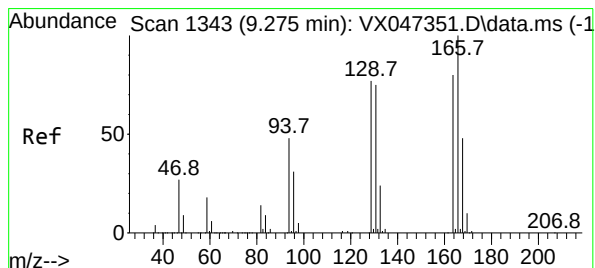
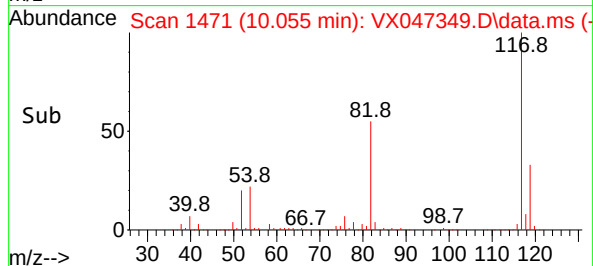
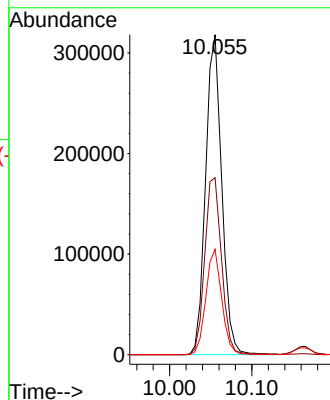
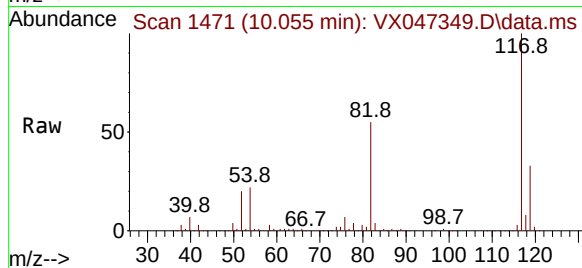
119 33.0 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#64

Tetrachloroethene

Concen: 4.856 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:164 Resp: 15266

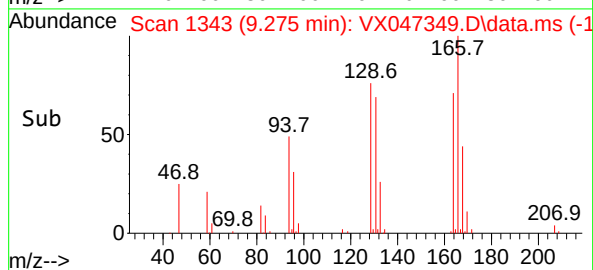
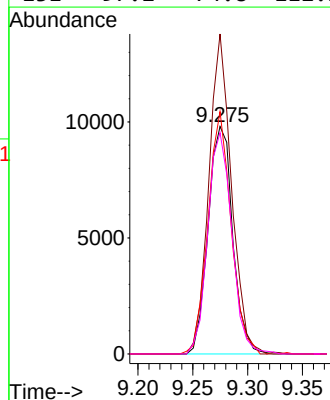
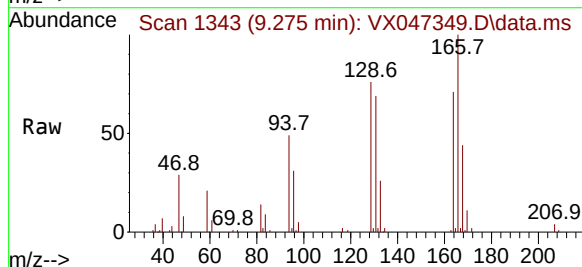
Ion Ratio Lower Upper

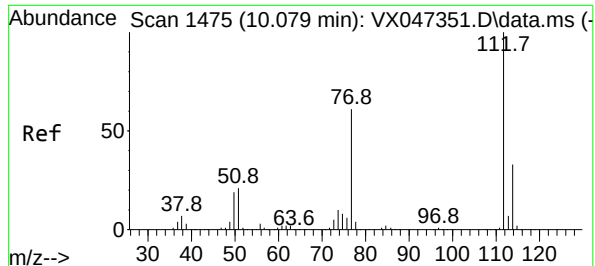
164 100

166 140.7 100.3 150.5

129 106.6 77.7 116.5

131 97.2 74.8 112.2





#65

Chlorobenzene

Concen: 4.896 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 5055

Ion Ratio Lower Upper

112 100

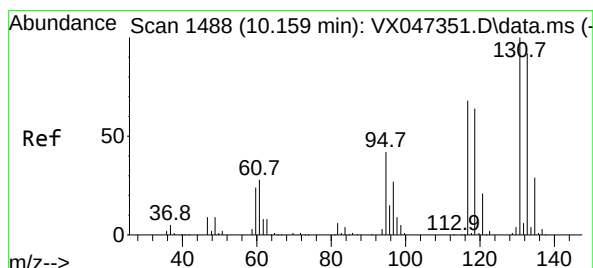
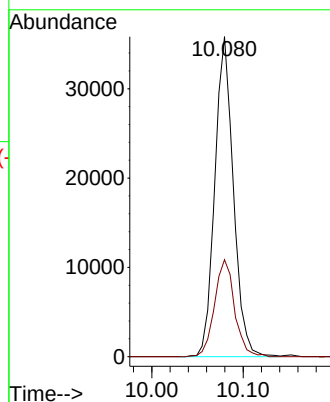
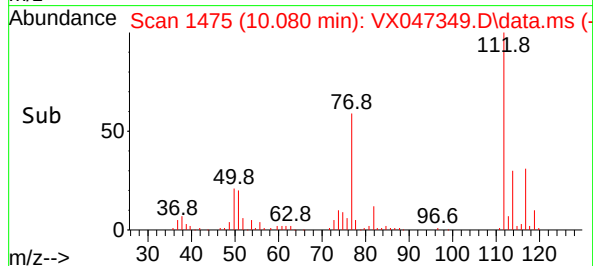
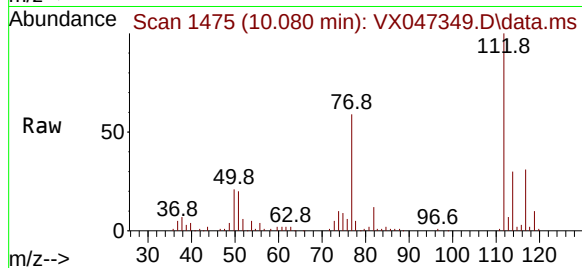
114 30.3 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 4.839 ug/l

RT: 10.165 min Scan# 1489

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

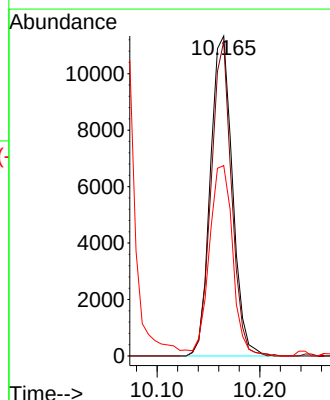
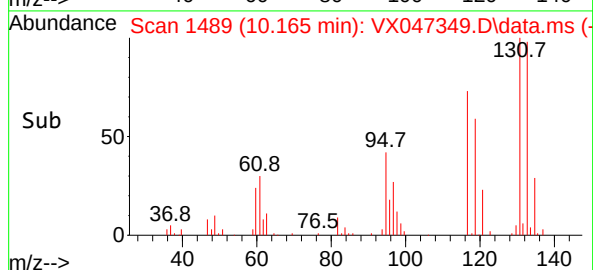
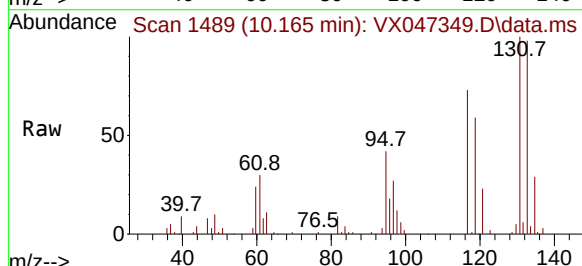
Tgt Ion:131 Resp: 16894

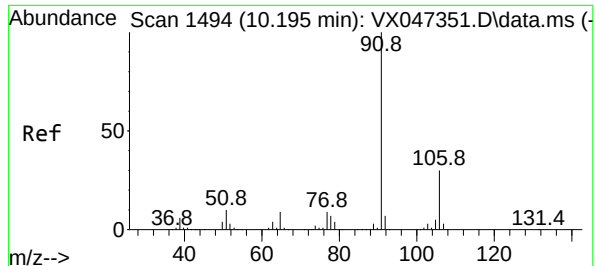
Ion Ratio Lower Upper

131 100

133 90.8 47.6 142.9

119 62.5 32.3 96.8





#67

Ethyl Benzene

Concen: 4.746 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 91 Resp: 8436

Ion Ratio Lower Upper

91 100

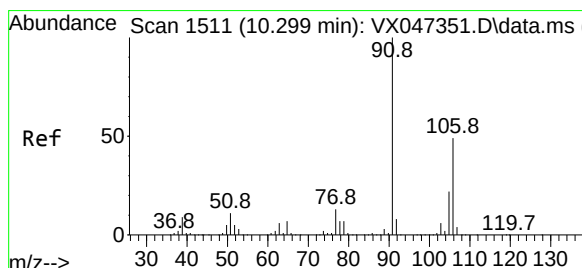
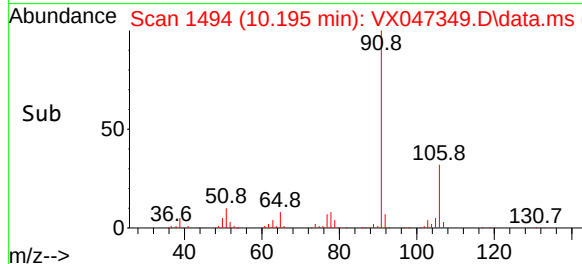
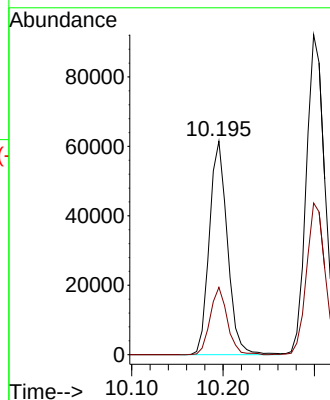
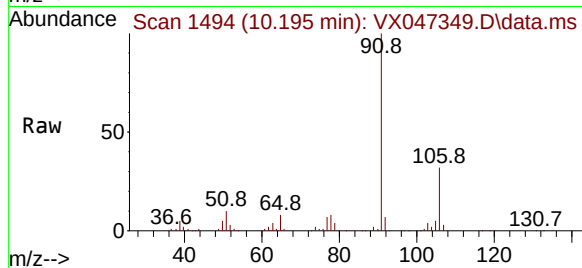
106 31.6 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#68

m/p-Xylenes

Concen: 9.462 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX047349.D

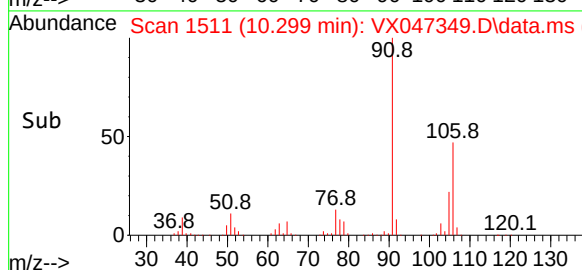
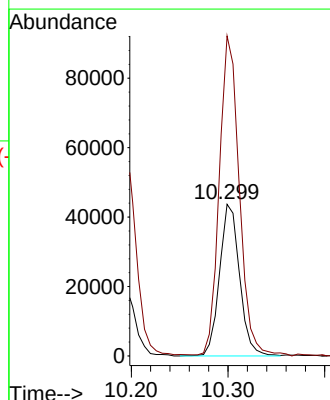
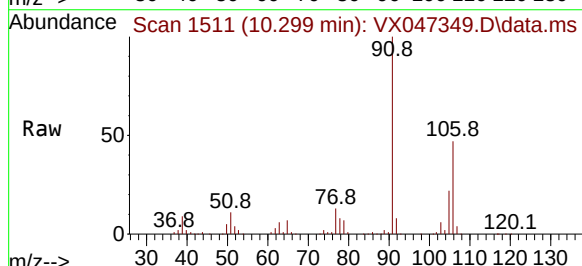
Acq: 15 Aug 2025 09:40

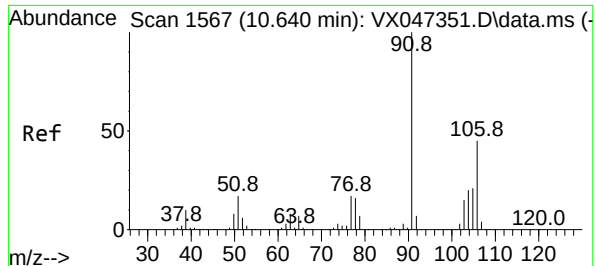
Tgt Ion:106 Resp: 62714

Ion Ratio Lower Upper

106 100

91 211.3 164.7 247.1





#69

o-Xylene

Concen: 4.623 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 2948

Ion Ratio Lower Upper

106 100

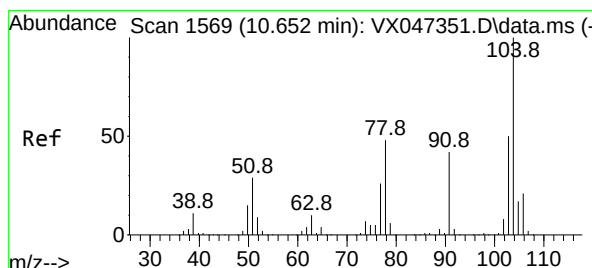
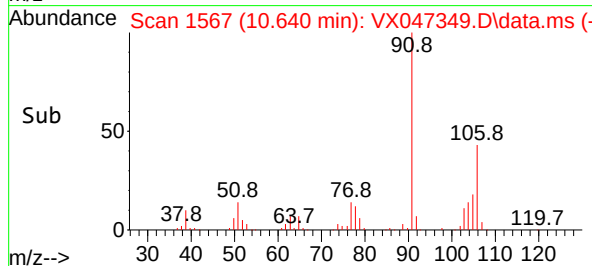
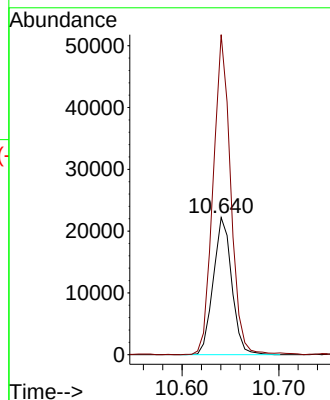
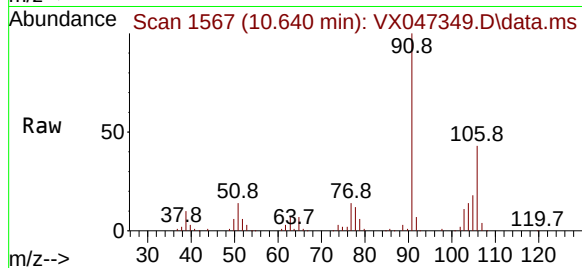
91 221.8 110.6 331.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#70

Styrene

Concen: 4.783 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

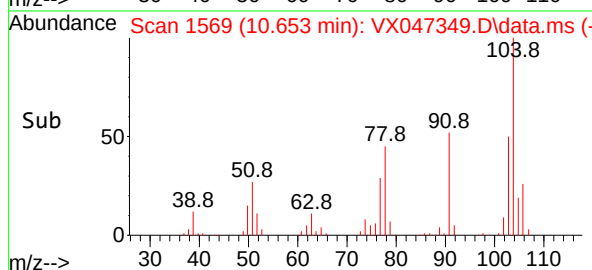
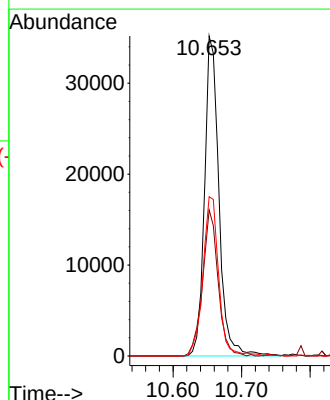
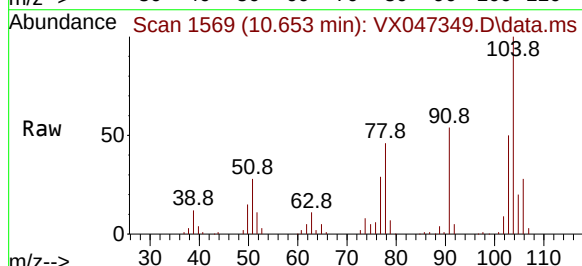
Tgt Ion:104 Resp: 51543

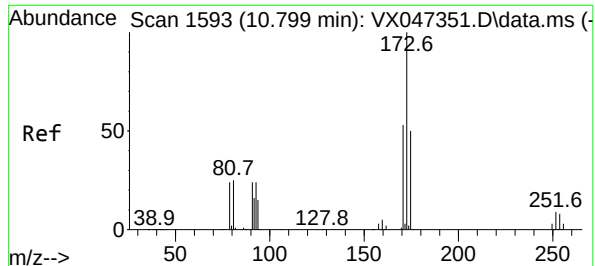
Ion Ratio Lower Upper

104 100

78 49.1 41.8 62.8

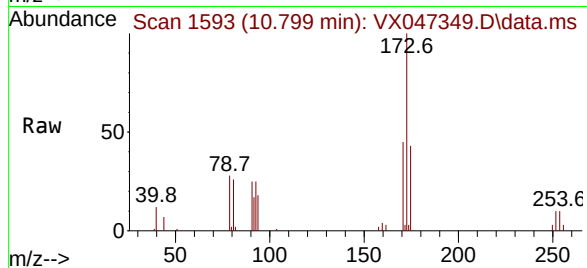
103 54.2 43.6 65.4





#71
Bromoform
Concen: 4.869 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

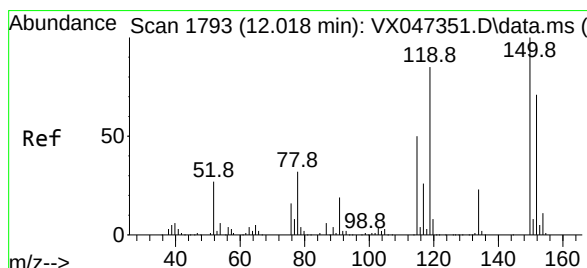
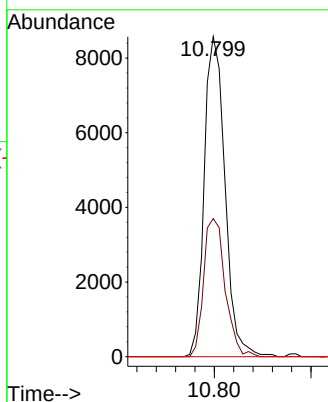
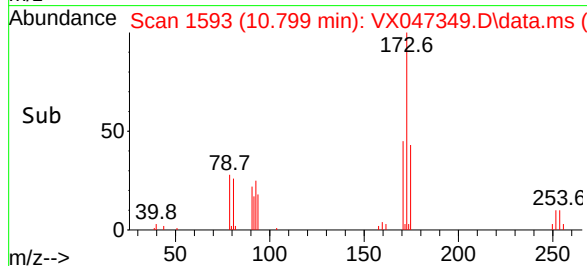
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



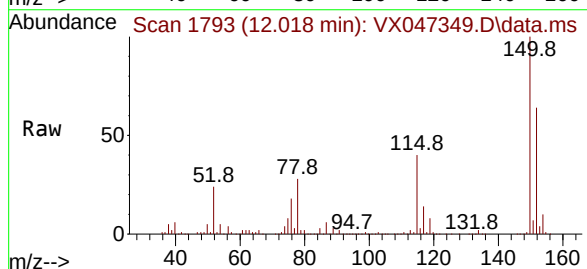
Tgt Ion:173 Resp: 12769
Ion Ratio Lower Upper
173 100
175 44.7 24.4 73.4
254 0.0 0.1 0.1

Manual Integrations
APPROVED

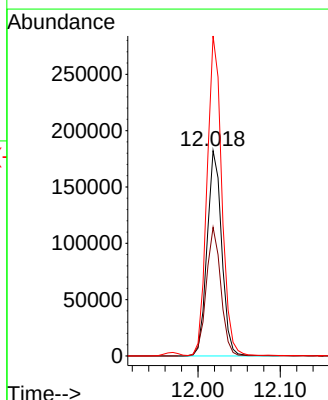
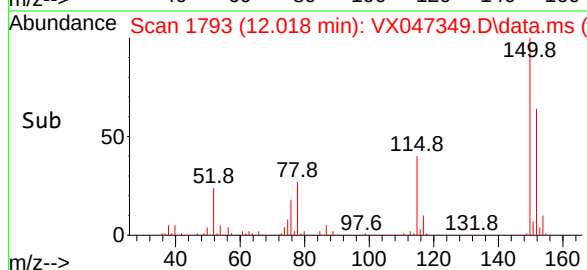
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

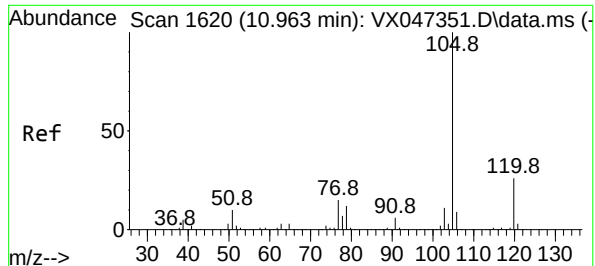


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40



Tgt Ion:152 Resp: 224159
Ion Ratio Lower Upper
152 100
115 63.0 44.6 133.8
150 156.6 0.0 349.8





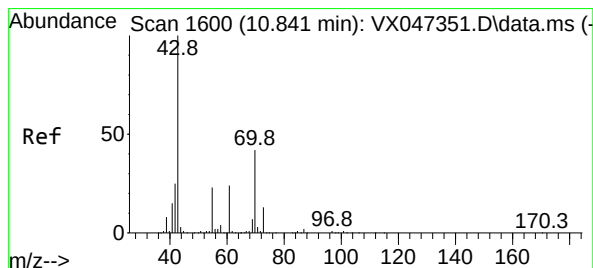
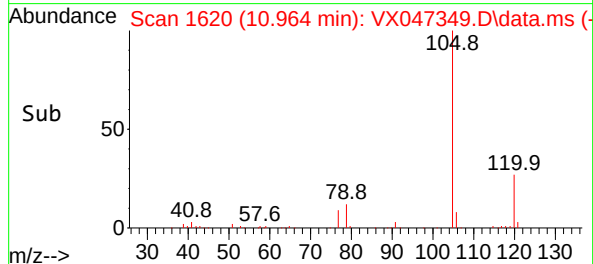
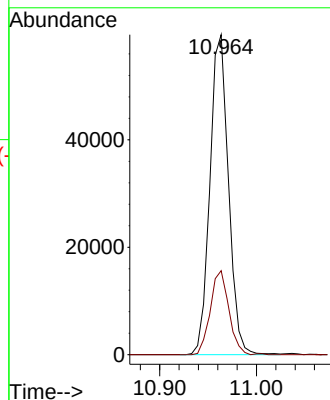
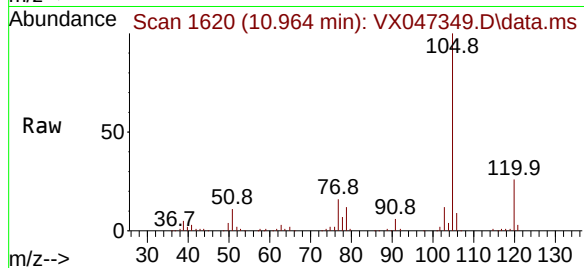
#73
Isopropylbenzene
Concen: 4.533 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 79512
Ion Ratio Lower Upper
105 100
120 26.3 12.9 38.6

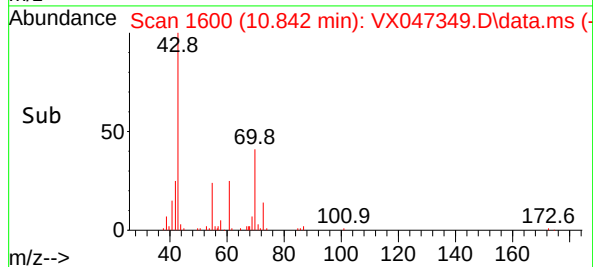
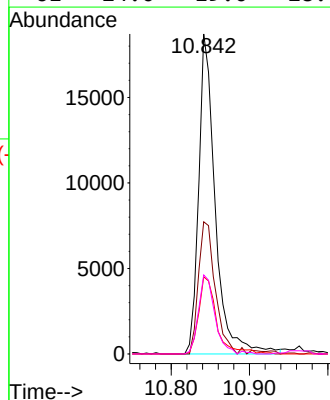
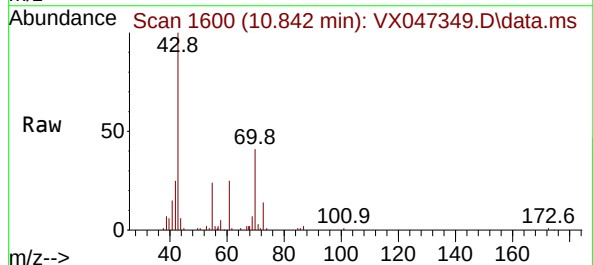
Manual Integrations
APPROVED

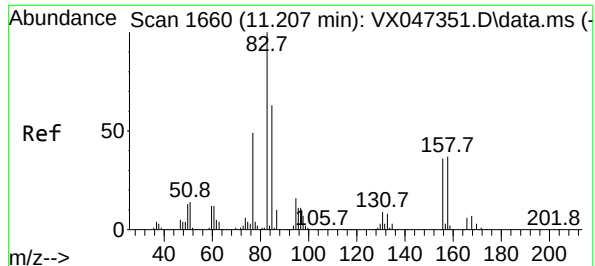
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#74
N-ethyl acetate
Concen: 4.138 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 43 Resp: 27565
Ion Ratio Lower Upper
43 100
70 41.5 33.1 49.7
55 26.0 19.0 28.6
61 24.0 19.0 28.6





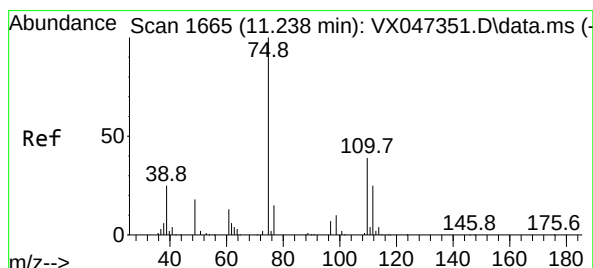
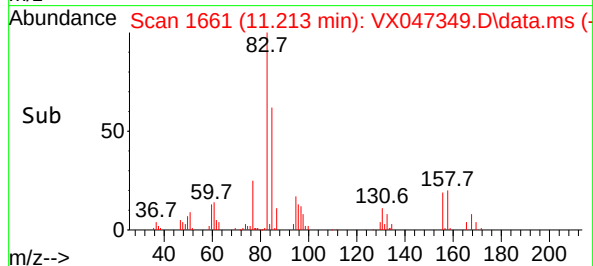
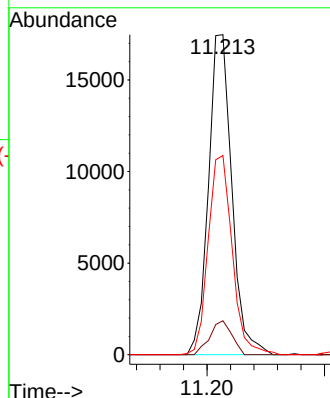
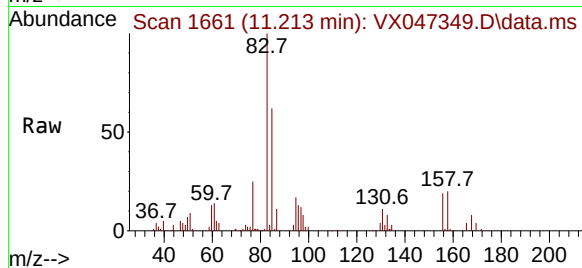
#75
1,1,2,2-Tetrachloroethane
Concen: 4.687 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 24139
Ion Ratio Lower Upper
83 100
131 10.0 5.0 15.0
85 64.0 31.7 95.1

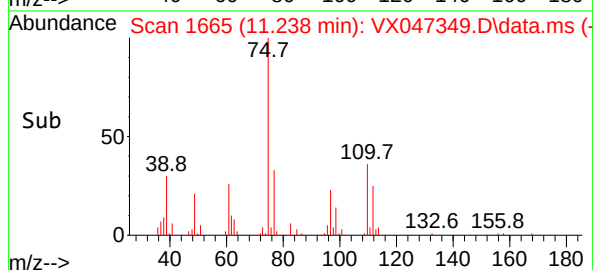
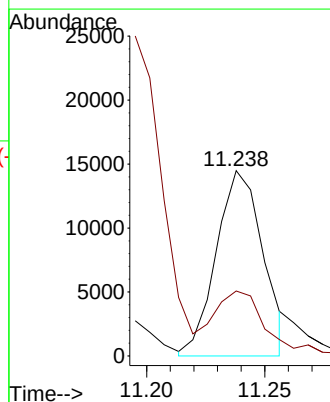
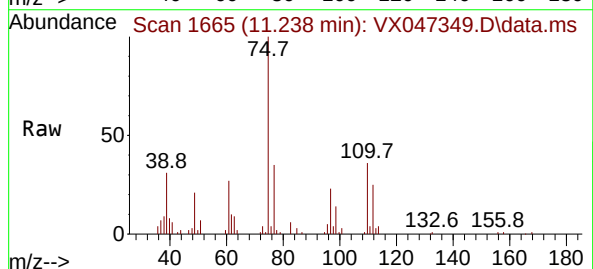
Manual Integrations
APPROVED

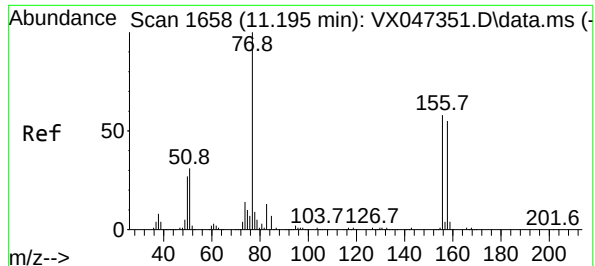
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#76
1,2,3-Trichloropropane
Concen: 4.843 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 75 Resp: 19912
Ion Ratio Lower Upper
75 100
77 40.2 19.4 58.2





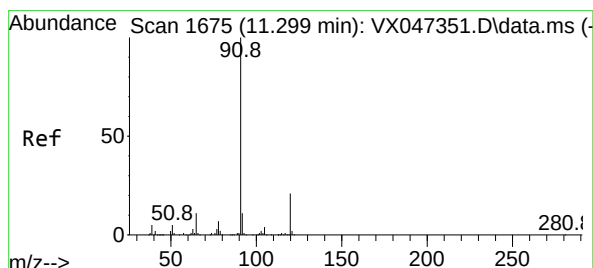
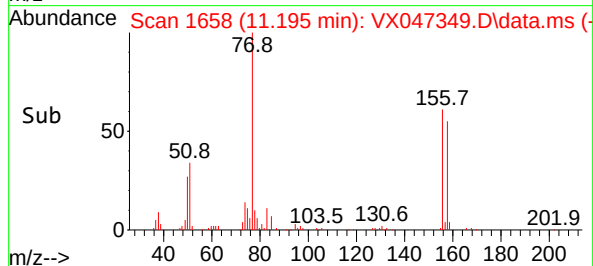
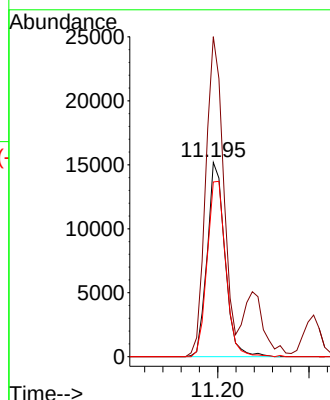
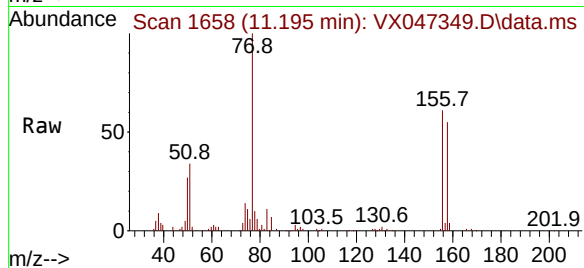
#77
Bromobenzene
Concen: 4.758 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 156 Resp: 20380
Ion Ratio Lower Upper
156 100
77 165.6 86.3 258.9
158 94.8 48.0 144.2

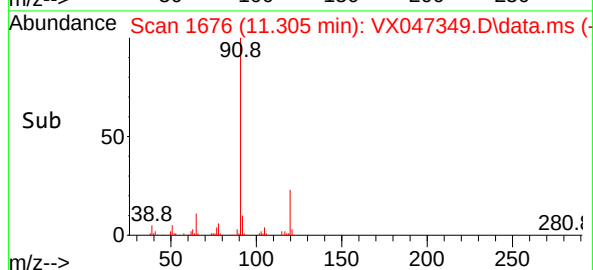
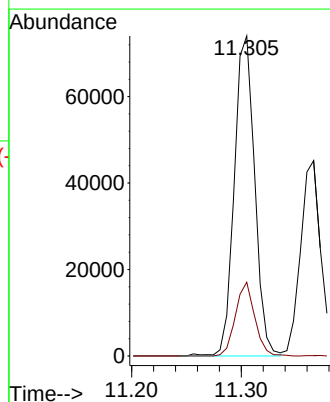
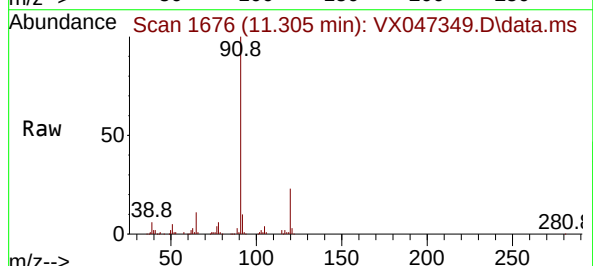
Manual Integrations
APPROVED

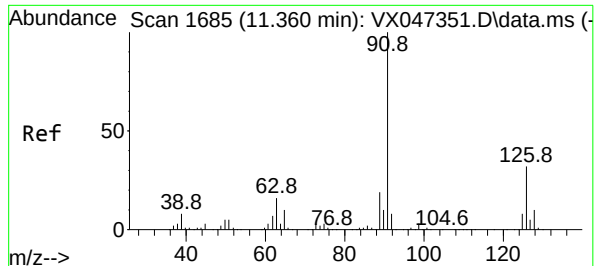
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#78
n-propylbenzene
Concen: 4.561 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion: 91 Resp: 95550
Ion Ratio Lower Upper
91 100
120 21.8 11.0 33.0





#79

2-Chlorotoluene

Concen: 4.623 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 91 Resp: 5854

Ion Ratio Lower Upper

91 100

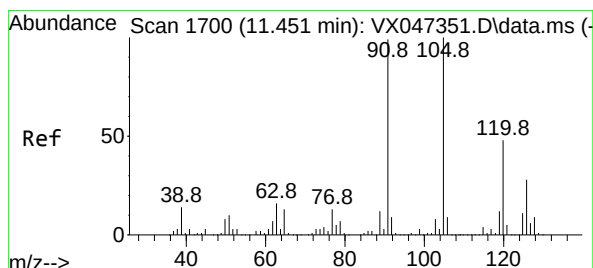
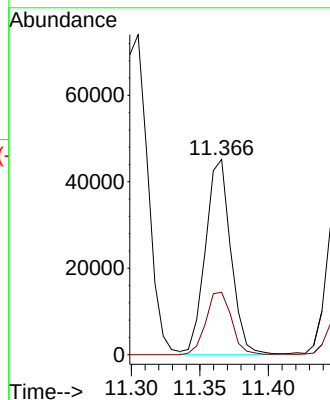
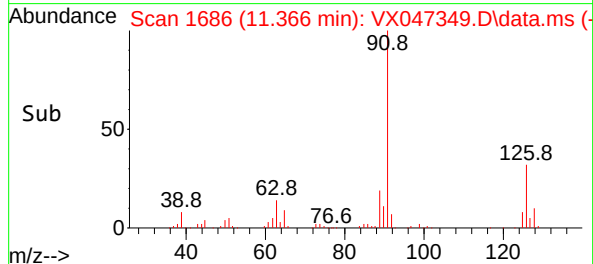
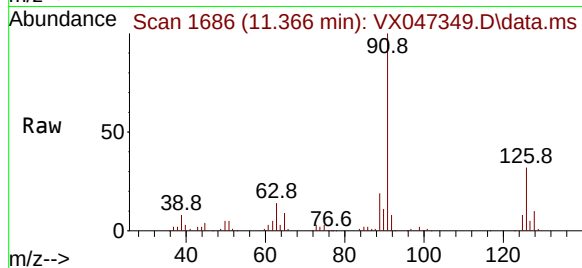
126 32.4 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.518 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX047349.D

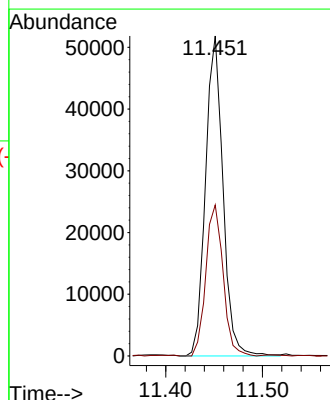
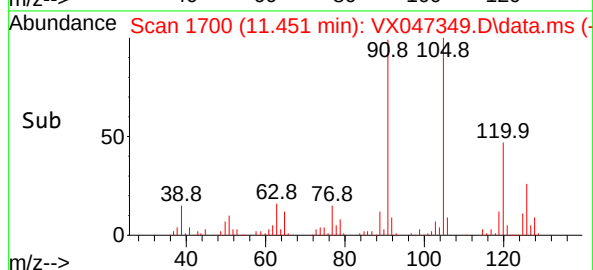
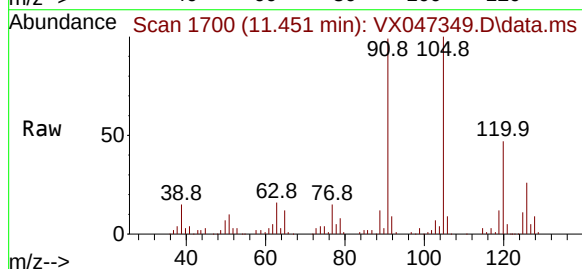
Acq: 15 Aug 2025 09:40

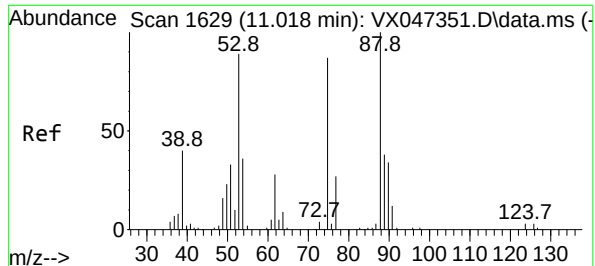
Tgt Ion:105 Resp: 65210

Ion Ratio Lower Upper

105 100

120 46.7 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 9.640 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

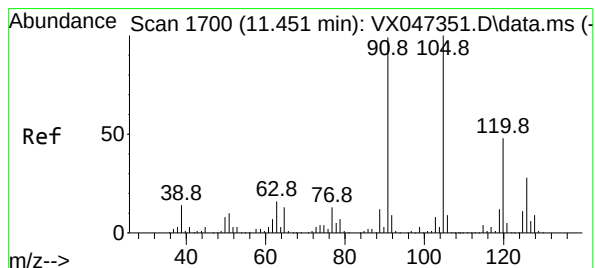
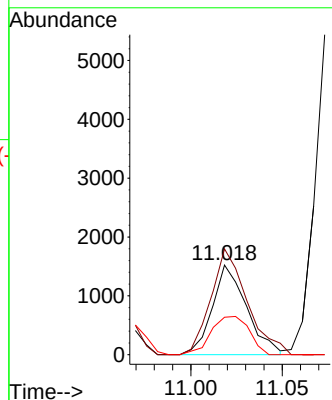
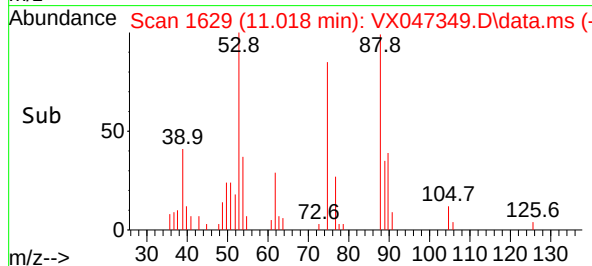
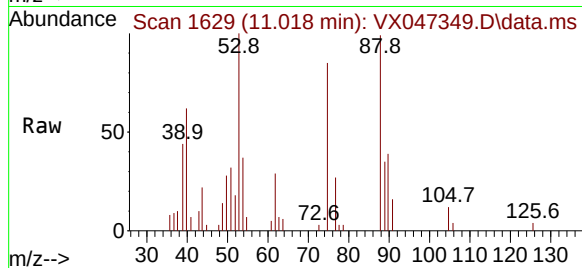
VSTDIC005

Tgt Ion:	75	Resp:	199
Ion	Ratio	Lower	Upper
75	100		
53	124.7	85.2	127.8
89	47.4	36.7	55.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#82

4-Chlorotoluene

Concen: 4.697 ug/l

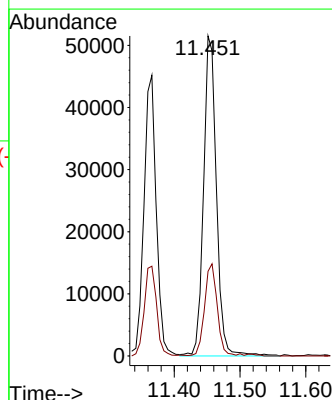
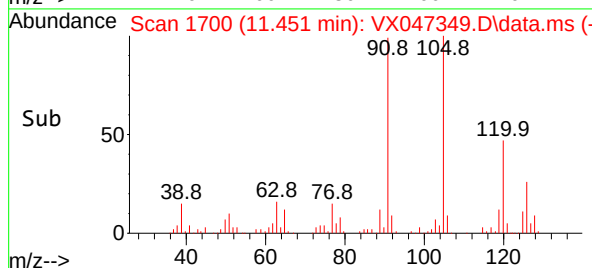
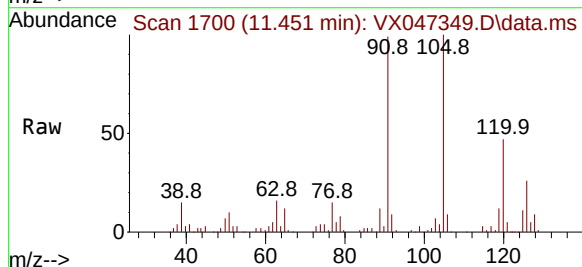
RT: 11.451 min Scan# 1700

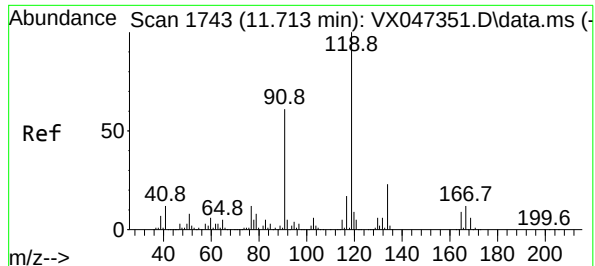
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	91	Resp:	70117
Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.4	43.0





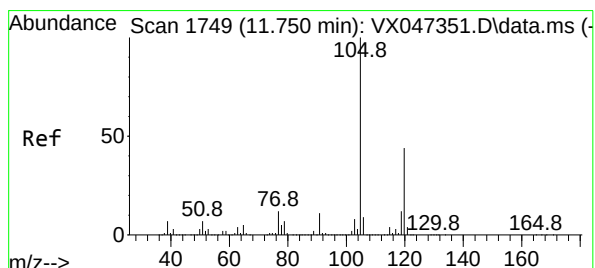
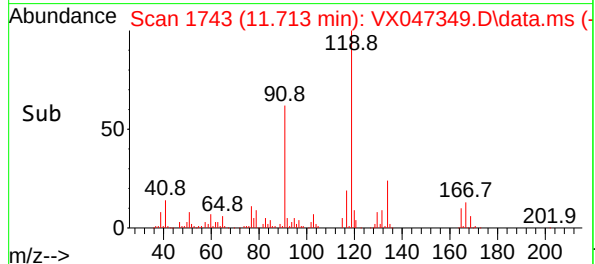
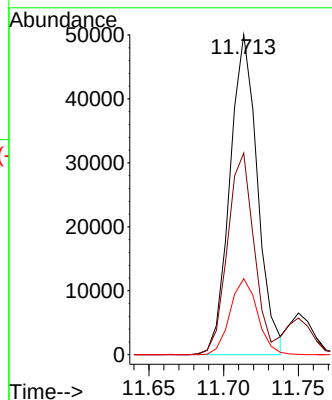
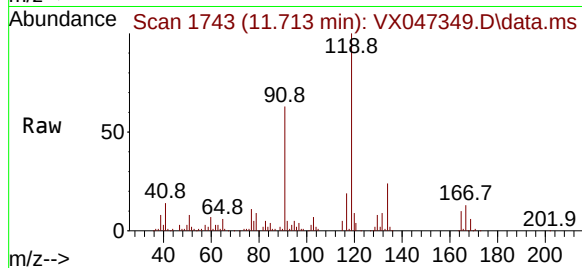
#83
tert-Butylbenzene
Concen: 4.463 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:119 Resp: 6426
Ion Ratio Lower Upper
119 100
91 60.5 29.1 87.4
134 23.6 11.3 33.9

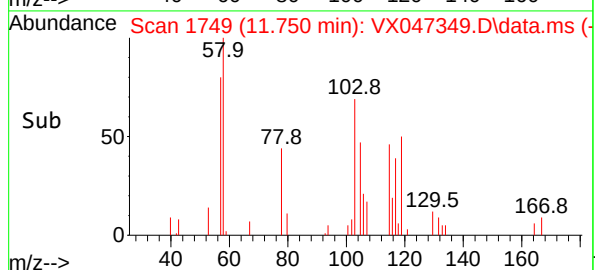
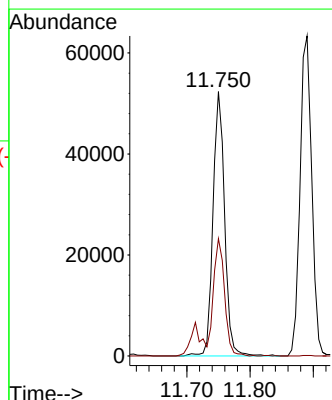
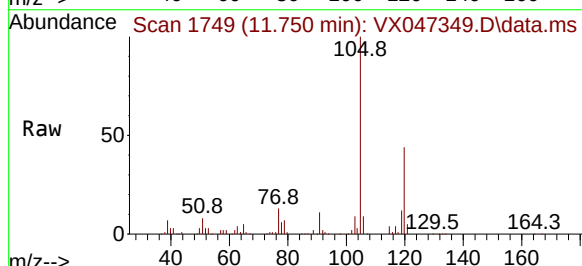
Manual Integrations
APPROVED

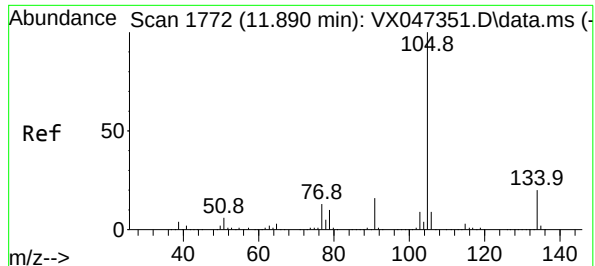
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#84
1,2,4-Trimethylbenzene
Concen: 4.644 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

Tgt Ion:105 Resp: 67032
Ion Ratio Lower Upper
105 100
120 42.2 21.9 65.7





#85

sec-Butylbenzene

Concen: 4.559 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 8137

Ion Ratio Lower Upper

105 100

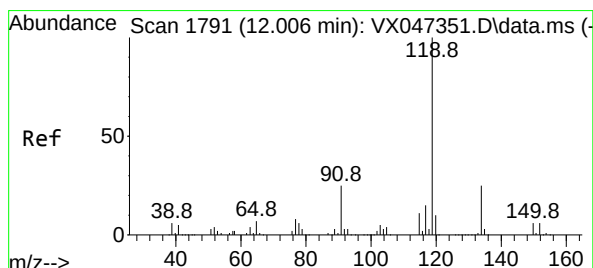
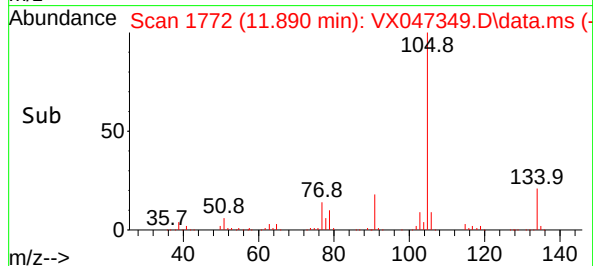
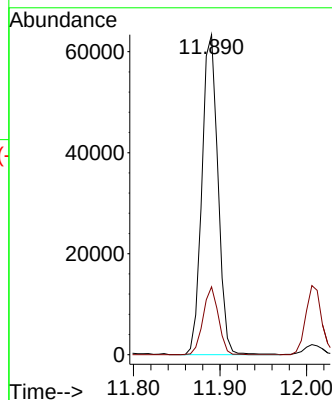
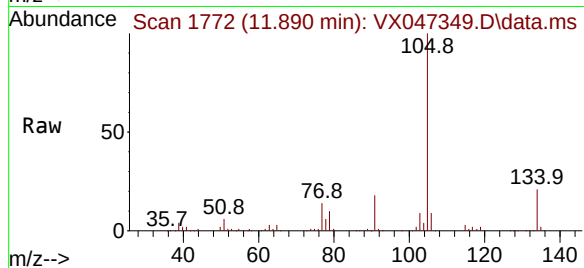
134 20.3 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#86

p-Isopropyltoluene

Concen: 4.559 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

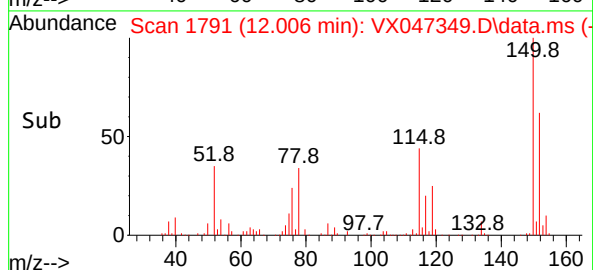
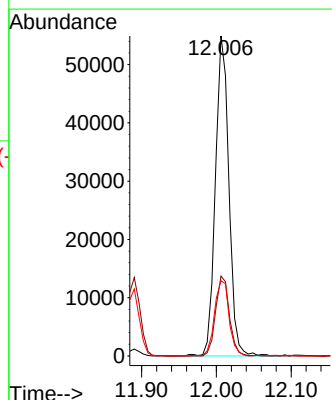
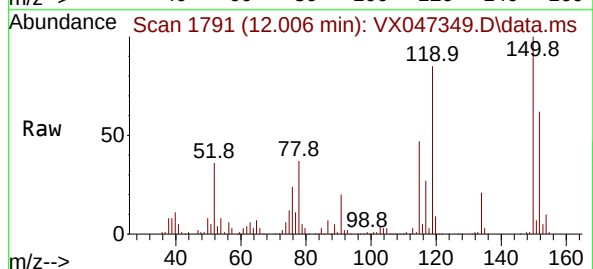
Tgt Ion:119 Resp: 68849

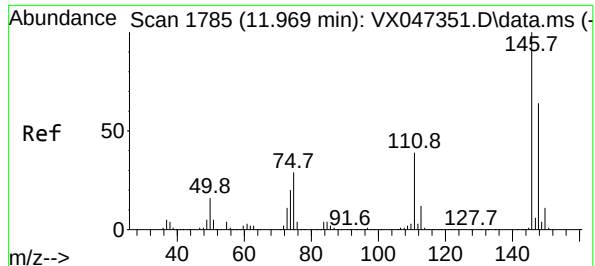
Ion Ratio Lower Upper

119 100

134 25.4 12.8 38.4

91 25.4 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 4.709 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 3853

Ion Ratio Lower Upper

146 100

111 42.5 20.6 61.8

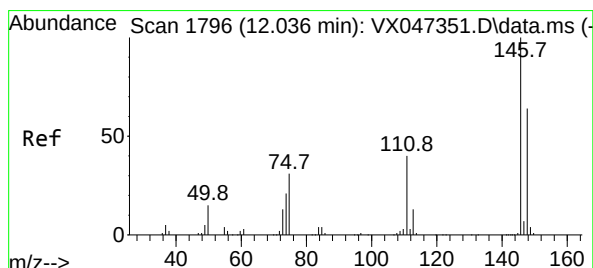
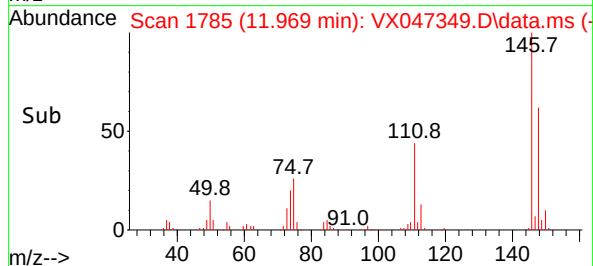
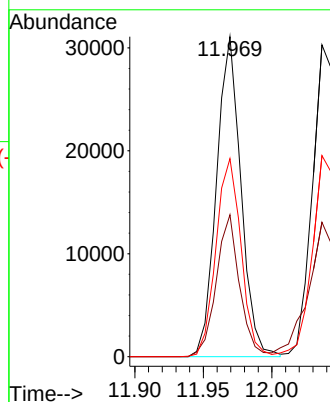
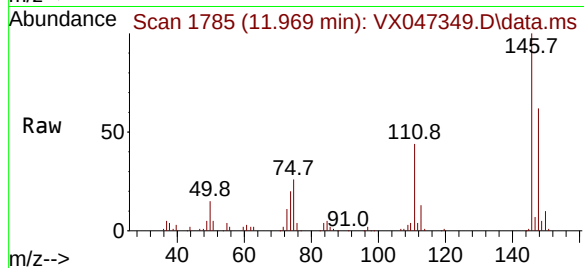
148 63.6 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#88

1,4-Dichlorobenzene

Concen: 4.763 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

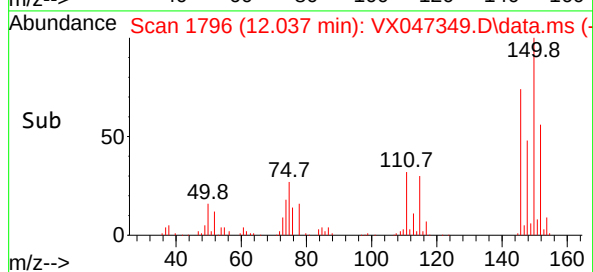
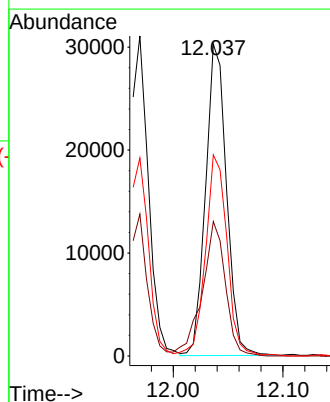
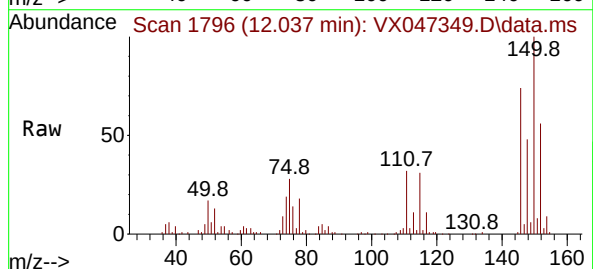
Tgt Ion:146 Resp: 40089

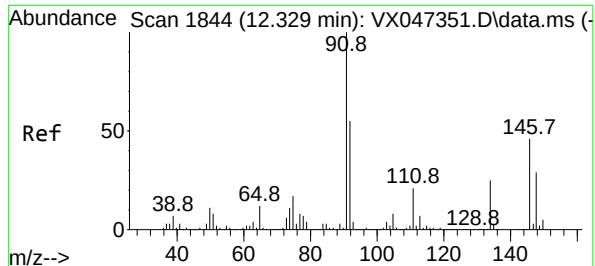
Ion Ratio Lower Upper

146 100

111 47.8 20.4 61.2

148 66.7 31.7 95.1





#89

n-Butylbenzene

Concen: 4.461 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 6266

Ion Ratio Lower Upper

91 100

92 53.6 27.2 81.5

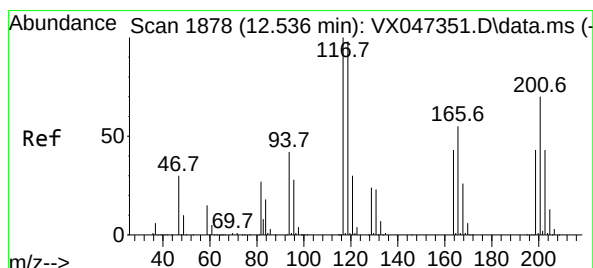
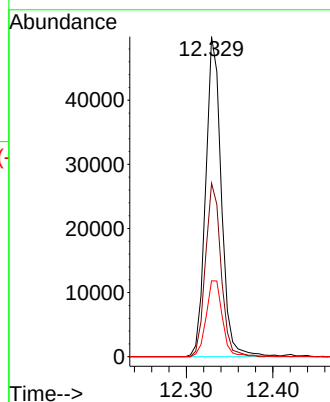
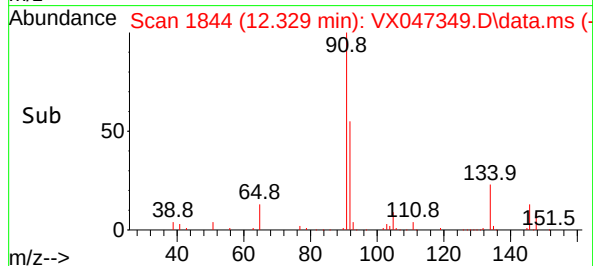
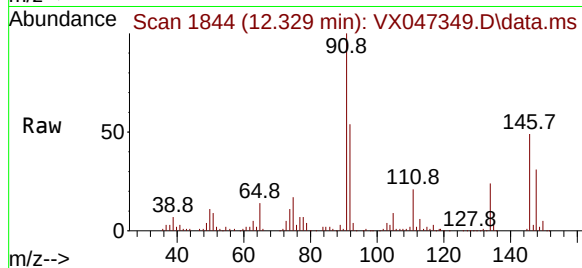
134 24.6 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#90

Hexachloroethane

Concen: 4.274 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047349.D

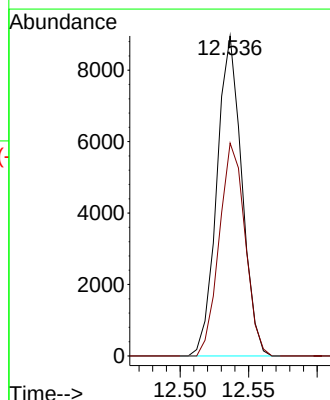
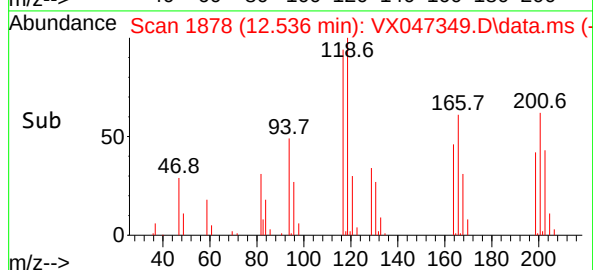
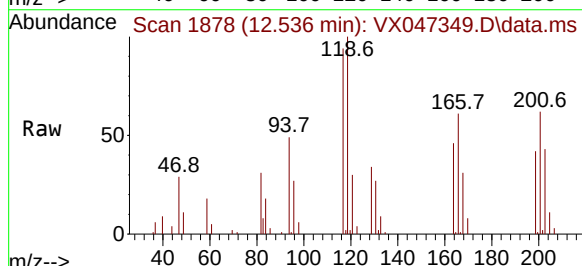
Acq: 15 Aug 2025 09:40

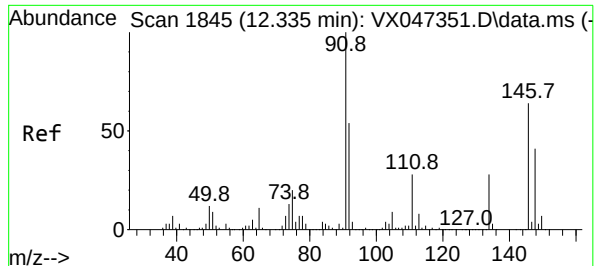
Tgt Ion:117 Resp: 11325

Ion Ratio Lower Upper

117 100

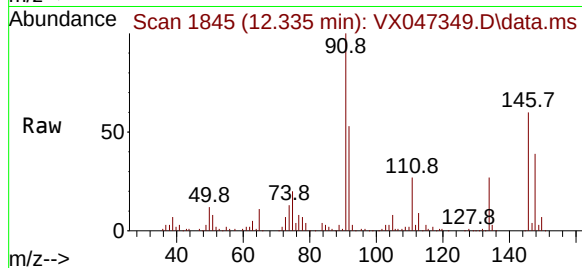
201 68.9 35.1 105.3





#91
1,2-Dichlorobenzene
Concen: 4.667 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40

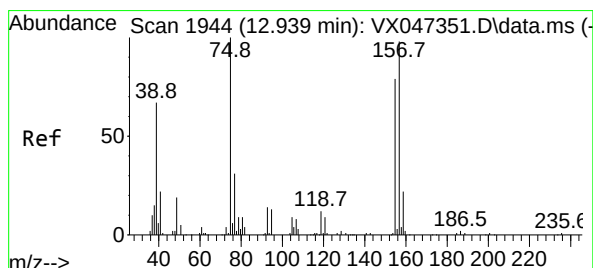
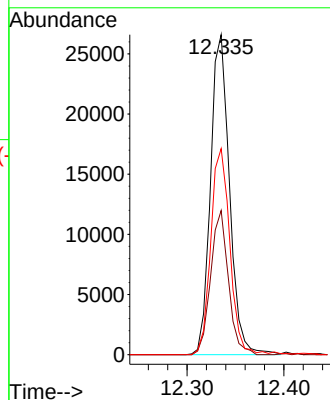
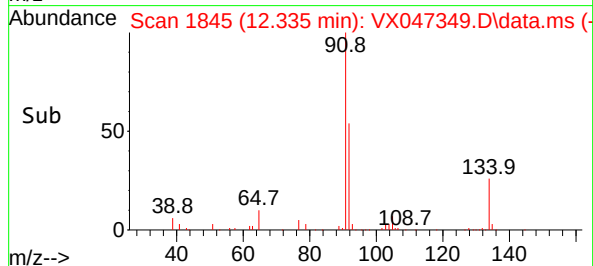
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



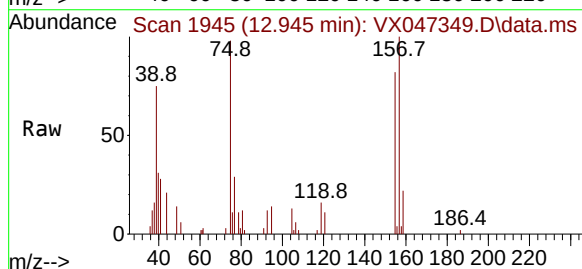
Tgt Ion:146 Resp: 3624
Ion Ratio Lower Upper
146 100
111 42.3 22.1 66.1
148 65.2 31.9 95.5

Manual Integrations
APPROVED

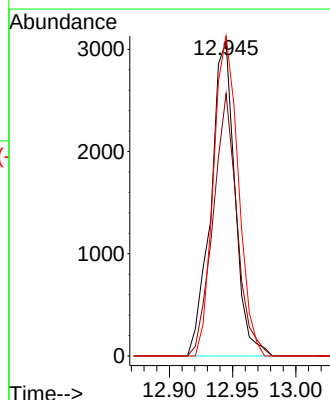
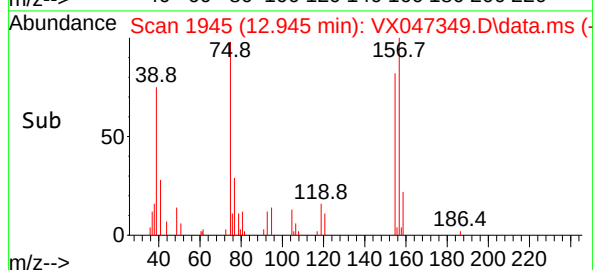
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

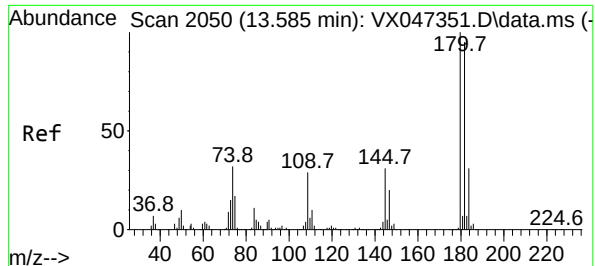


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.097 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX047349.D
Acq: 15 Aug 2025 09:40



Tgt Ion: 75 Resp: 4081
Ion Ratio Lower Upper
75 100
155 82.5 41.3 123.7
157 104.4 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 4.432 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

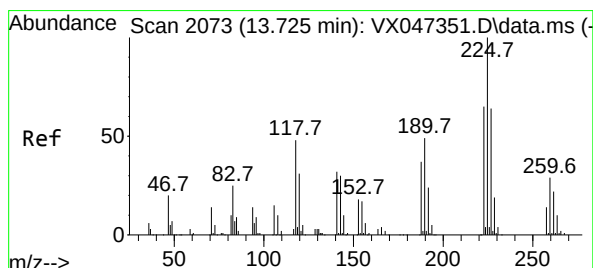
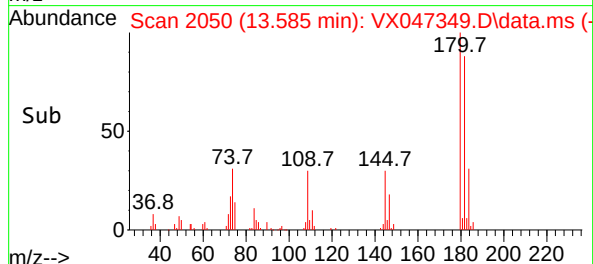
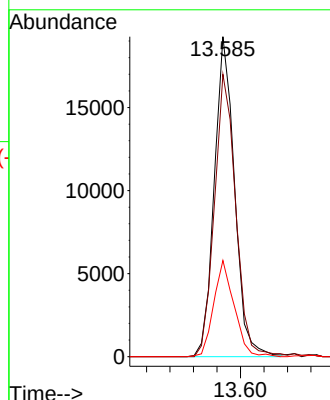
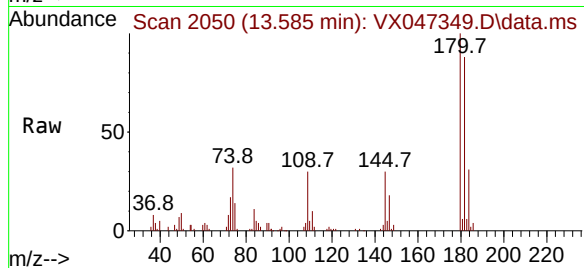
VSTDIC005

Tgt Ion:	180	Resp:	23080
Ion Ratio	Lower	Upper	
180	100		
182	92.4	48.1	144.4
145	30.4	16.2	48.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#94

Hexachlorobutadiene

Concen: 4.436 ug/l

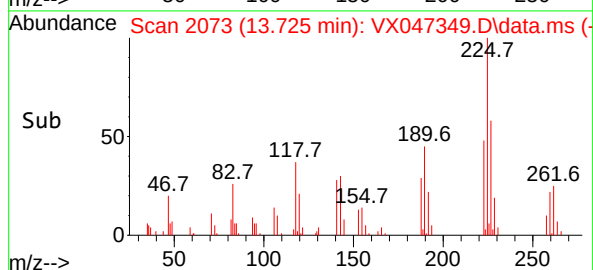
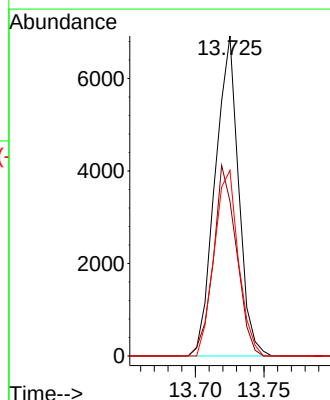
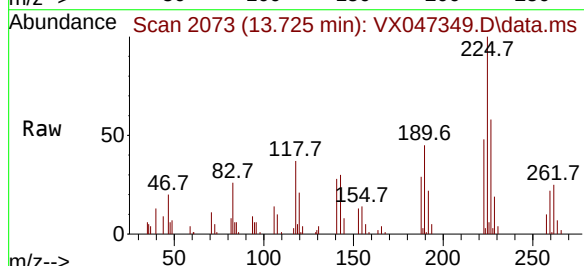
RT: 13.725 min Scan# 2073

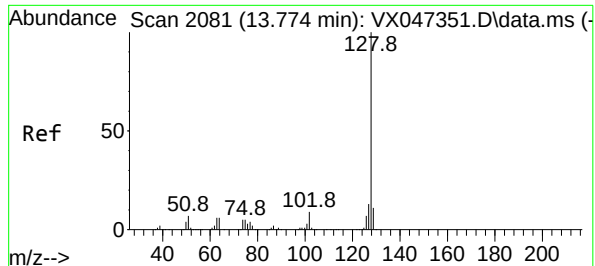
Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	225	Resp:	8221
Ion Ratio	Lower	Upper	
225	100		
223	58.6	32.2	96.6
227	60.0	31.6	95.0





#95

Naphthalene

Concen: 4.076 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Instrument :

MSVOA_X

ClientSampleId :

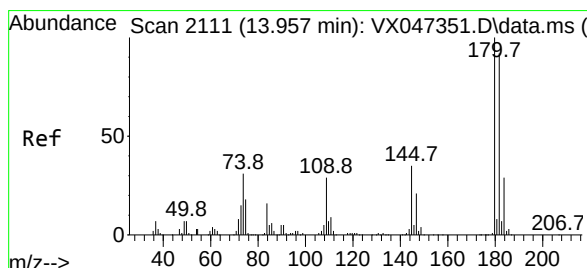
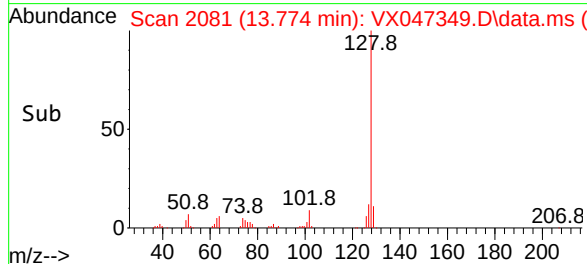
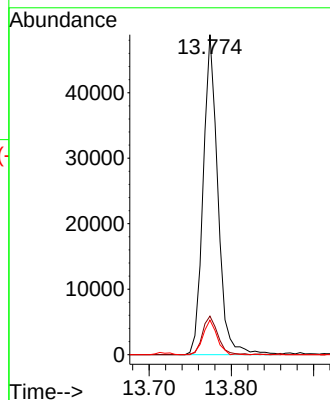
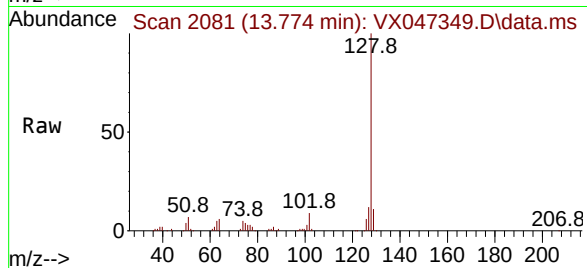
VSTDIC005

Tgt Ion:	128	Resp:	6064
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.1	15.1
129	10.3	8.7	13.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.199 ug/l

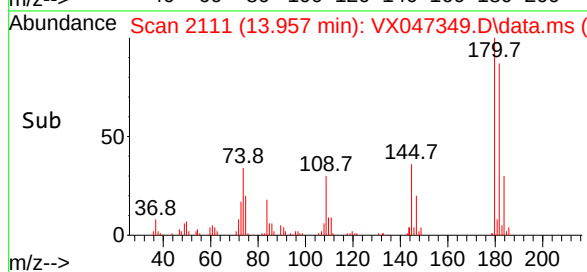
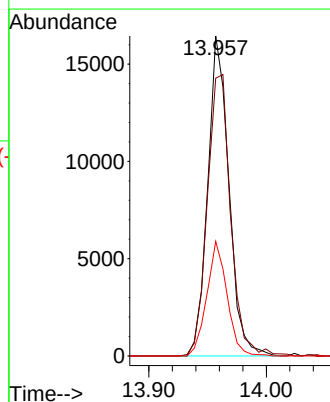
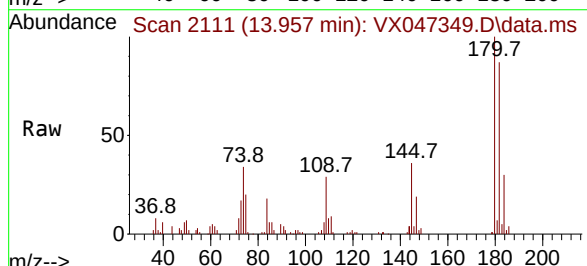
RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX047349.D

Acq: 15 Aug 2025 09:40

Tgt Ion:	180	Resp:	20611
Ion Ratio	Lower	Upper	
180	100		
182	97.0	48.0	144.2
145	34.3	17.4	52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047350.D
 Acq On : 15 Aug 2025 10:01
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Aug 18 02:53:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	259497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	434596	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	392362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	196732	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	60290	16.601	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	33.200%#
35) Dibromofluoromethane	5.397	113	48382	17.153	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	34.300%#
50) Toluene-d8	8.653	98	172730	17.133	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	34.260%#
62) 4-Bromofluorobenzene	11.079	95	64433	17.320	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	34.640%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	66192	20.010	ug/l	96
3) Chloromethane	1.313	50	58950	19.810	ug/l	96
4) Vinyl Chloride	1.392	62	77968	20.874	ug/l	99
5) Bromomethane	1.624	94	30761	20.389	ug/l	89
6) Chloroethane	1.703	64	45658	19.979	ug/l	100
7) Trichlorofluoromethane	1.904	101	116366	21.062	ug/l	96
8) Diethyl Ether	2.148	74	40131	20.629	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	68887	21.495	ug/l	100
10) Methyl Iodide	2.471	142	94708	17.244	ug/l	99
11) Tert butyl alcohol	2.965	59	30471	96.445	ug/l	98
12) 1,1-Dichloroethene	2.337	96	68973	21.110	ug/l	98
13) Acrolein	2.252	56	63232	94.809	ug/l	100
14) Allyl chloride	2.678	41	118613	20.902	ug/l	99
15) Acrylonitrile	3.081	53	163095	106.830	ug/l	99
16) Acetone	2.392	43	161019	117.954	ug/l	95
17) Carbon Disulfide	2.532	76	198834	20.167	ug/l	98
18) Methyl Acetate	2.715	43	68662	19.410	ug/l	99
19) Methyl tert-butyl Ether	3.130	73	209527	21.080	ug/l	98
20) Methylene Chloride	2.806	84	76029	21.033	ug/l	97
21) trans-1,2-Dichloroethene	3.111	96	73205	21.110	ug/l	99
22) Diisopropyl ether	3.776	45	246210	21.949	ug/l	98
23) Vinyl Acetate	3.733	43	996178	108.348	ug/l	97
24) 1,1-Dichloroethane	3.629	63	134271	21.177	ug/l	99
25) 2-Butanone	4.568	43	195973	109.614	ug/l	96
26) 2,2-Dichloropropane	4.489	77	101341	21.177	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	85695	21.217	ug/l	98
28) Bromochloromethane	4.910	49	41717	15.812	ug/l	100
29) Tetrahydrofuran	5.032	42	117869	102.002	ug/l	97
30) Chloroform	5.105	83	137885	21.309	ug/l	96
31) Cyclohexane	5.483	56	124775	21.348	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	119441	21.445	ug/l	98
36) 1,1-Dichloropropene	5.702	75	95703	21.494	ug/l	99
37) Ethyl Acetate	4.727	43	98709	21.355	ug/l	96
38) Carbon Tetrachloride	5.690	117	103616	21.296	ug/l	96
39) Methylcyclohexane	7.385	83	116913	21.051	ug/l	95
40) Benzene	6.050	78	289406	21.716	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047350.D
 Acq On : 15 Aug 2025 10:01
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :John Carlone 08/18/2025
 Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:53:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	42490	21.799	ug/l	96
42) 1,2-Dichloroethane	6.098	62	103227	21.867	ug/l	98
43) Isopropyl Acetate	6.348	43	141062	21.243	ug/l	99
44) Trichloroethene	7.135	130	73526	21.546	ug/l	94
45) 1,2-Dichloropropane	7.434	63	72118	21.601	ug/l	100
46) Dibromomethane	7.586	93	52472	21.648	ug/l	99
47) Bromodichloromethane	7.824	83	107990	21.491	ug/l	98
48) Methyl methacrylate	7.696	41	72765	21.111	ug/l	100
49) 1,4-Dioxane	7.684	88	13554m	414.079	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	416671	109.039	ug/l	100
52) Toluene	8.720	92	181368	22.024	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	93302	21.275	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	105701	21.294	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	68282	21.838	ug/l	98
56) Ethyl methacrylate	9.116	69	97675	21.188	ug/l	99
57) 1,3-Dichloropropane	9.311	76	116737	21.910	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	159793	78.521	ug/l	99
59) 2-Hexanone	9.433	43	293885	111.182	ug/l	100
60) Dibromochloromethane	9.519	129	80119	21.561	ug/l	98
61) 1,2-Dibromoethane	9.610	107	68961	21.388	ug/l	99
64) Tetrachloroethene	9.275	164	60329	21.257	ug/l	93
65) Chlorobenzene	10.079	112	198998	21.342	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	66366	21.056	ug/l	99
67) Ethyl Benzene	10.195	91	347834	21.675	ug/l	99
68) m/p-Xylenes	10.299	106	260945	43.608	ug/l	98
69) o-Xylene	10.640	106	124422	21.606	ug/l	99
70) Styrene	10.653	104	219310	22.540	ug/l	99
71) Bromoform	10.799	173	50519	21.335	ug/l #	99
73) Isopropylbenzene	10.963	105	329846	21.425	ug/l	99
74) N-amyl acetate	10.842	43	121116	20.717	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	95098	21.039	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	74083m	20.531	ug/l	
77) Bromobenzene	11.195	156	80066	21.298	ug/l	99
78) n-propylbenzene	11.305	91	395888	21.531	ug/l	99
79) 2-Chlorotoluene	11.360	91	239133	21.515	ug/l	97
80) 1,3,5-Trimethylbenzene	11.451	105	272501	21.513	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	11057	19.090	ug/l	90
82) 4-Chlorotoluene	11.451	91	278705	21.272	ug/l	99
83) tert-Butylbenzene	11.713	119	271541	21.487	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	277110	21.876	ug/l	100
85) sec-Butylbenzene	11.890	105	340203	21.719	ug/l	99
86) p-Isopropyltoluene	12.006	119	280855	21.189	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	150028	20.890	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	153630	20.798	ug/l	99
89) n-Butylbenzene	12.329	91	260428	21.124	ug/l	99
90) Hexachloroethane	12.536	117	45934	19.754	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	145629	21.363	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	17698	20.246	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	91878	20.105	ug/l	100
94) Hexachlorobutadiene	13.719	225	30481	18.738	ug/l	98
95) Naphthalene	13.774	128	267664	20.495	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	87275	20.261	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047350.D
Acq On : 15 Aug 2025 10:01
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:53:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

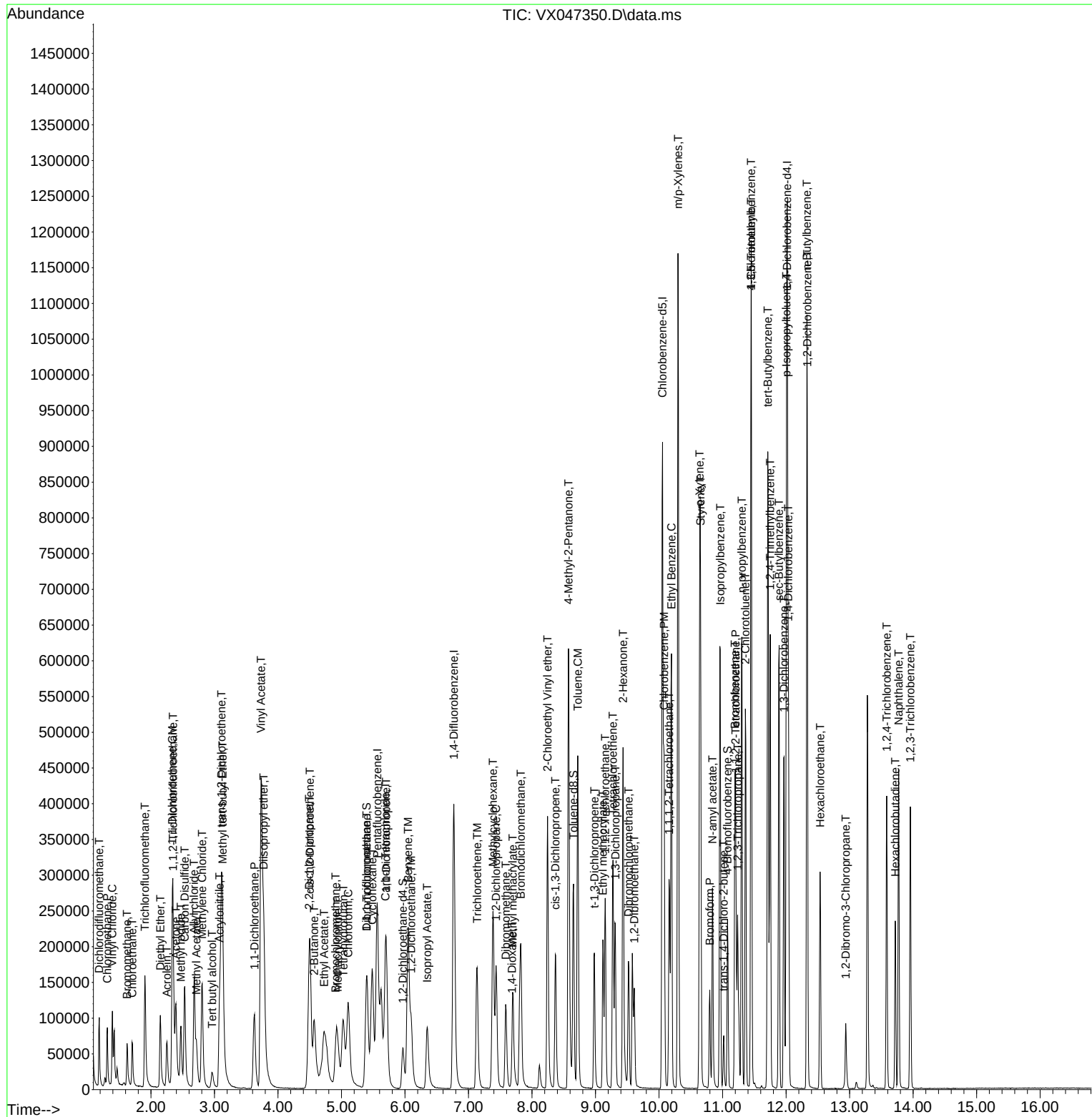
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

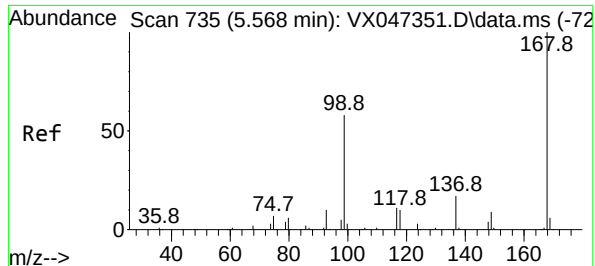
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025





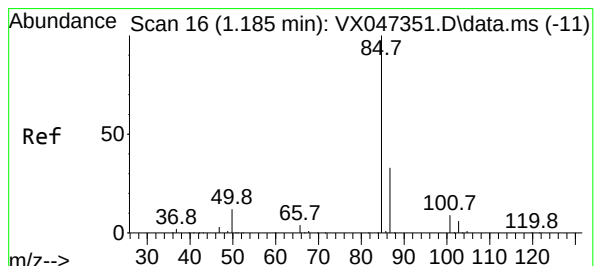
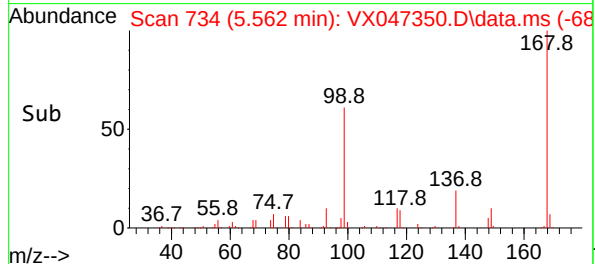
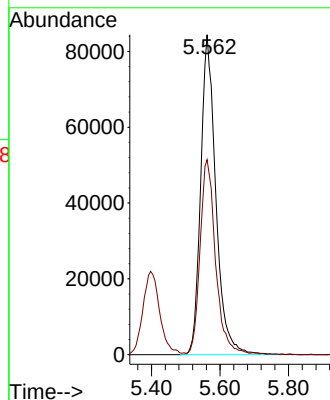
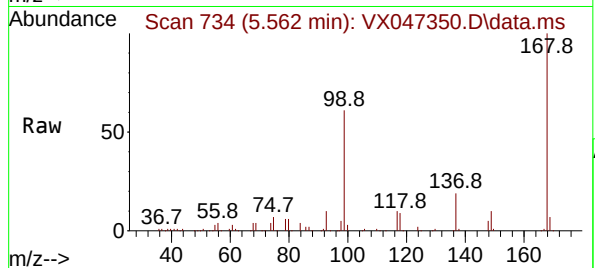
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 25949
Ion Ratio Lower Upper
168 100
99 60.9 47.9 71.9

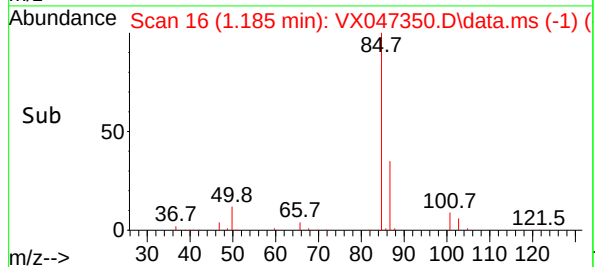
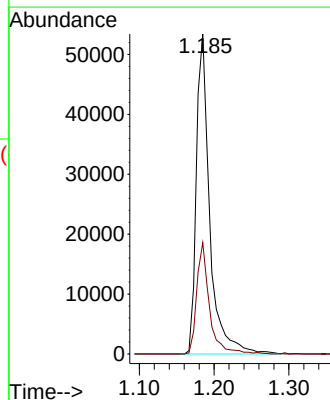
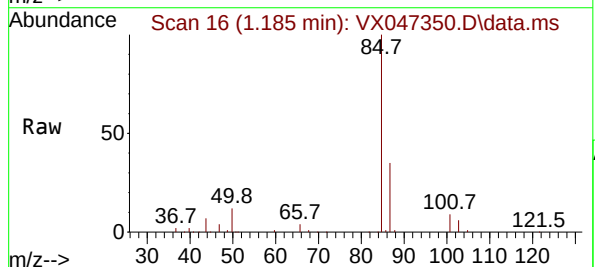
Manual Integrations
APPROVED

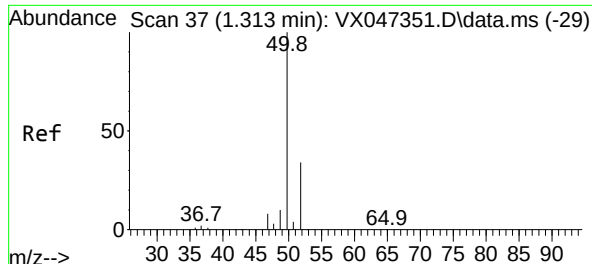
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#2
Dichlorodifluoromethane
Concen: 20.010 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 85 Resp: 66192
Ion Ratio Lower Upper
85 100
87 34.8 16.4 49.1





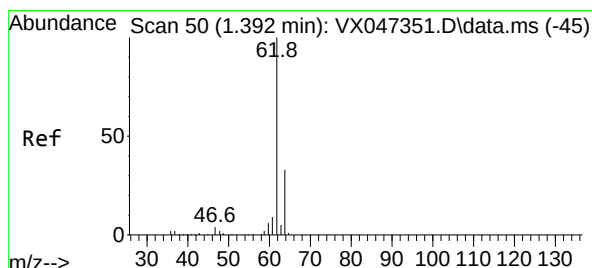
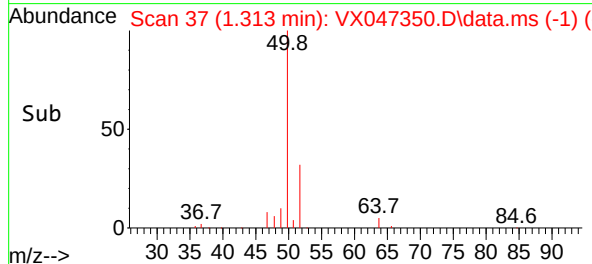
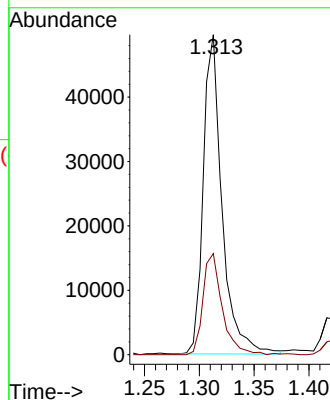
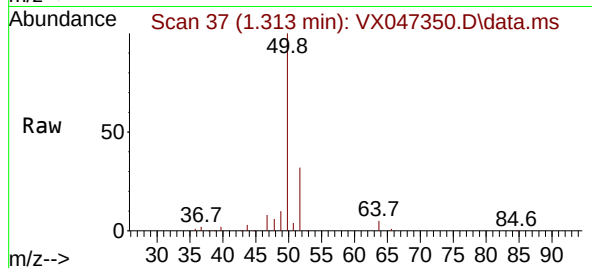
#3
Chloromethane
Concen: 19.810 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 58950
Ion Ratio Lower Upper
50 100
52 31.7 27.0 40.4

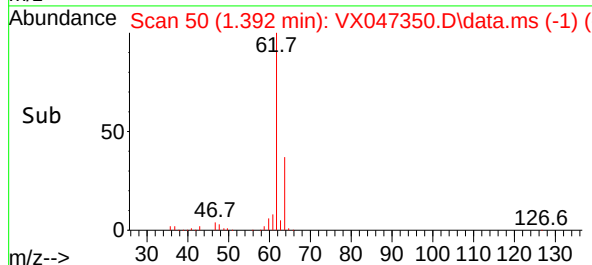
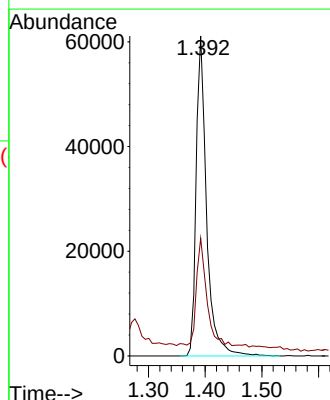
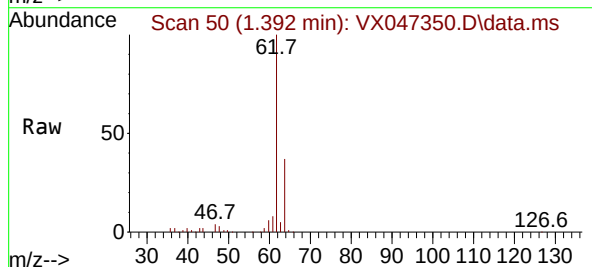
Manual Integrations
APPROVED

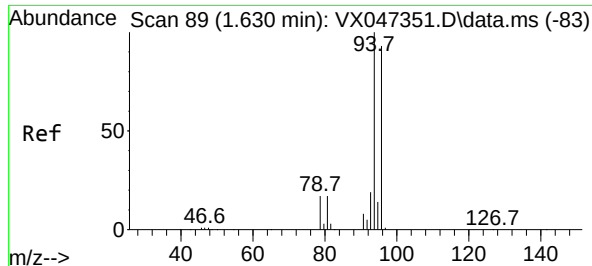
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#4
Vinyl Chloride
Concen: 20.874 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 62 Resp: 77968
Ion Ratio Lower Upper
62 100
64 33.9 26.5 39.7





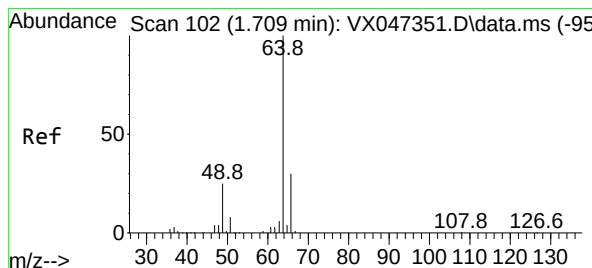
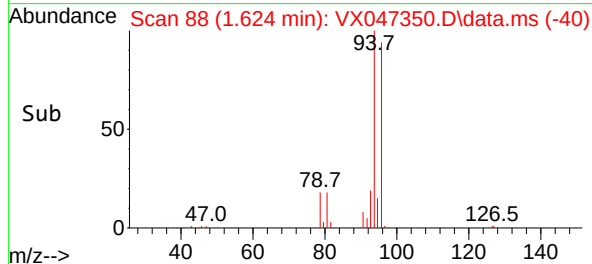
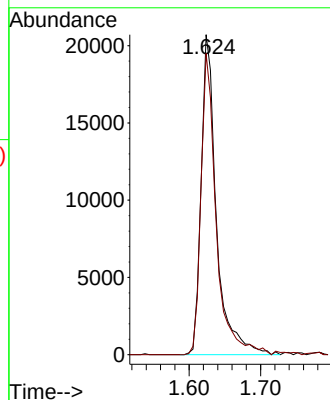
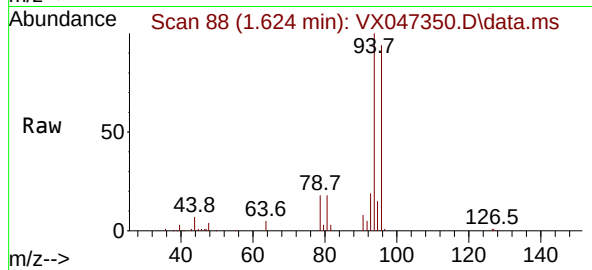
#5
Bromomethane
Concen: 20.389 ug/l
RT: 1.624 min Scan# 89
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 3076
Ion Ratio Lower Upper
94 100
96 83.2 74.7 112.1

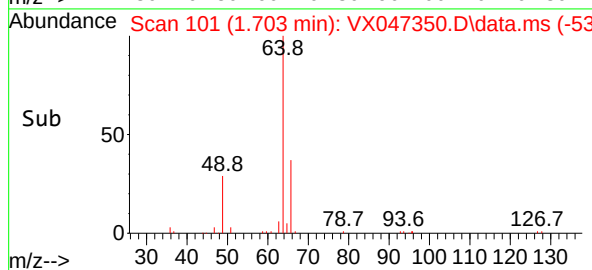
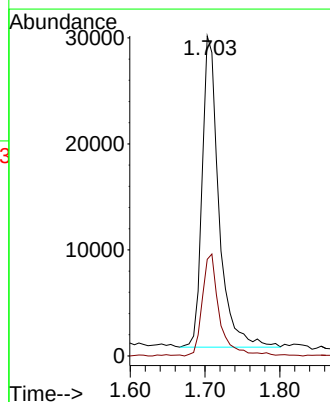
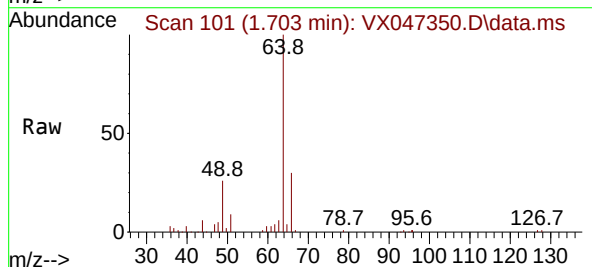
Manual Integrations
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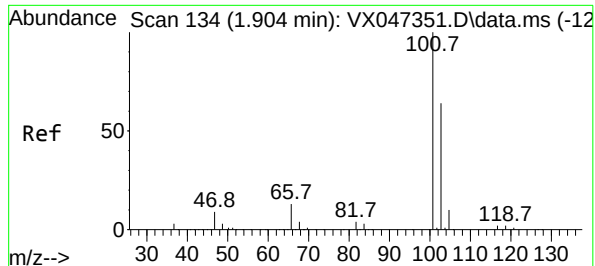
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#6
Chloroethane
Concen: 19.979 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 64 Resp: 45658
Ion Ratio Lower Upper
64 100
66 30.7 24.4 36.6





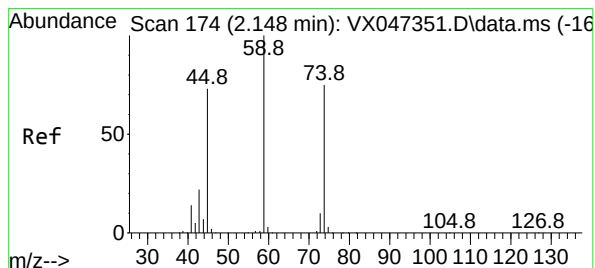
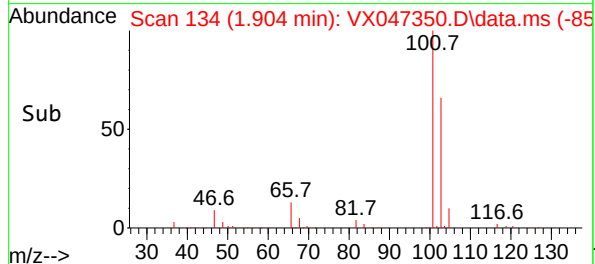
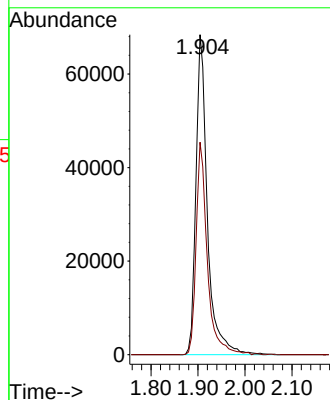
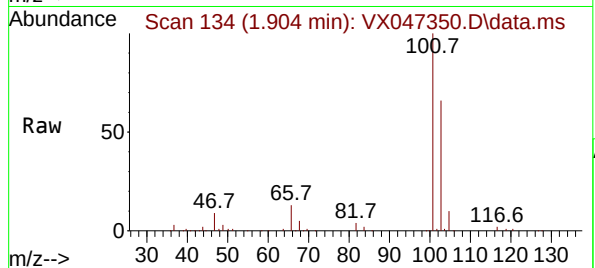
#7
Trichlorofluoromethane
Concen: 21.062 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 11636
Ion Ratio Lower Upper
101 100
103 66.4 50.9 76.3

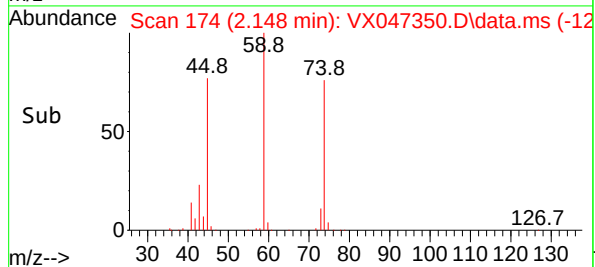
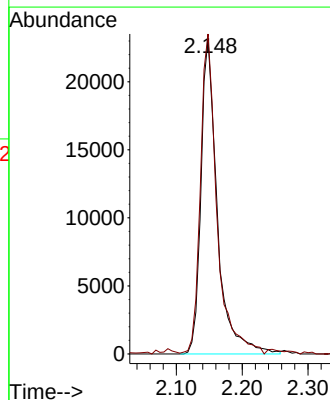
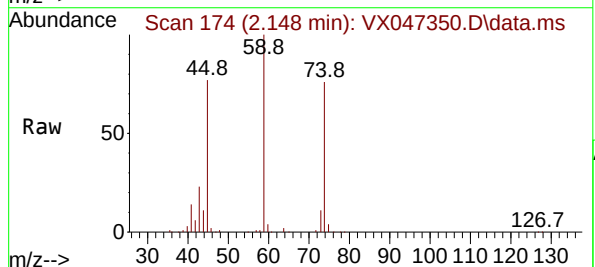
Manual Integrations
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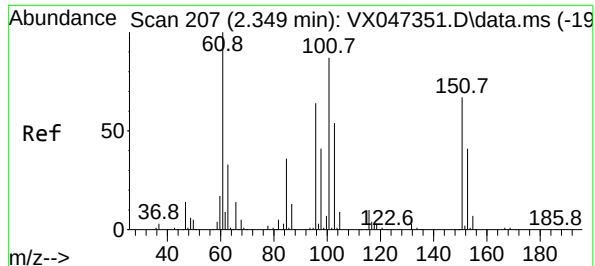
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#8
Diethyl Ether
Concen: 20.629 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 74 Resp: 40131
Ion Ratio Lower Upper
74 100
45 102.2 51.3 154.0





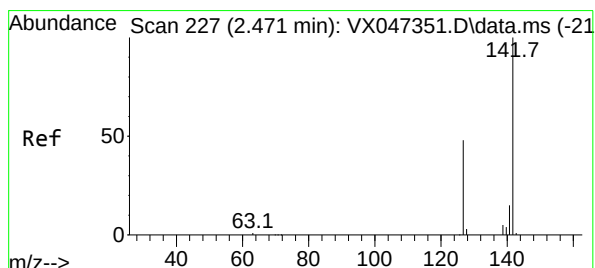
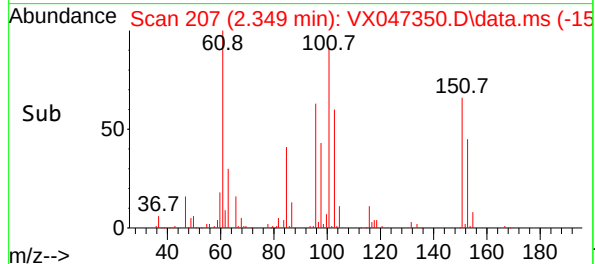
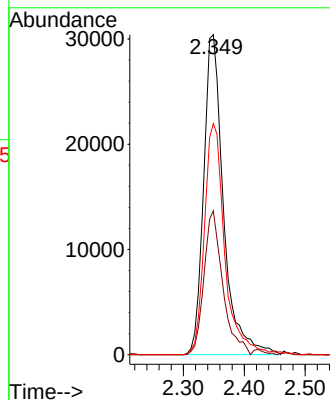
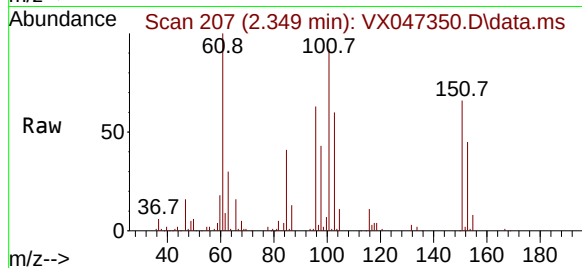
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.495 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 6888
Ion Ratio Lower Upper
101 100
85 42.6 34.3 51.5
151 74.0 59.2 88.8

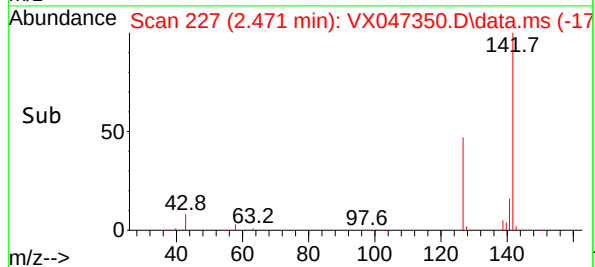
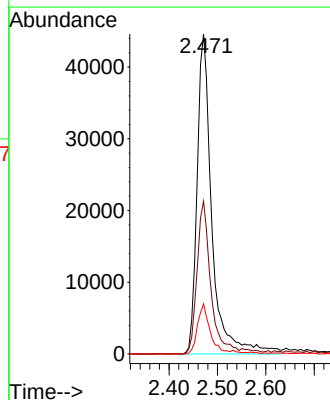
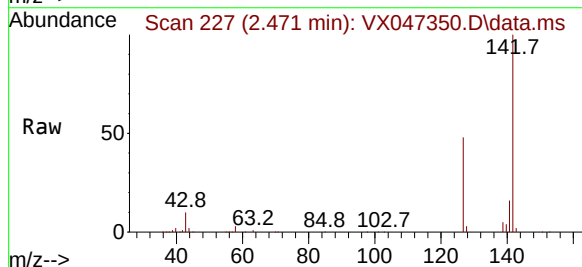
Manual Integrations
APPROVED

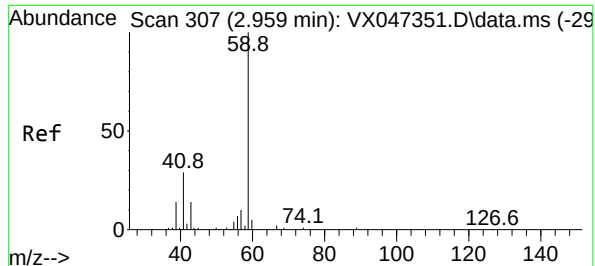
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#10
Methyl Iodide
Concen: 17.244 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:142 Resp: 94708
Ion Ratio Lower Upper
142 100
127 44.2 36.1 54.1
141 13.3 11.1 16.7





#11

Tert butyl alcohol

Concen: 96.445 ug/l

RT: 2.965 min Scan# 307

Delta R.T. 0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 3047

Ion Ratio Lower Upper

59 100

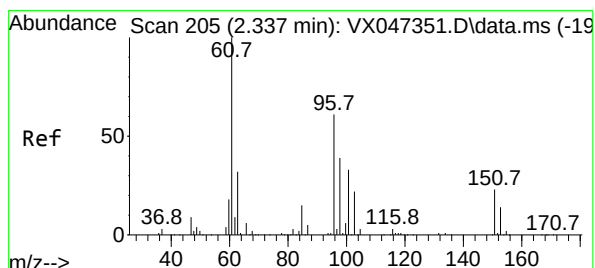
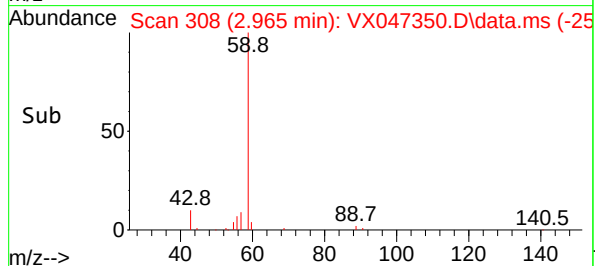
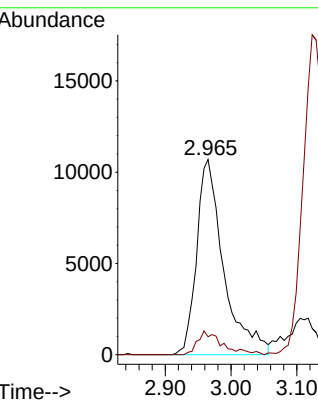
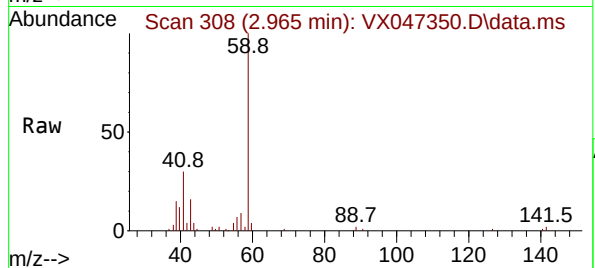
57 9.8 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#12

1,1-Dichloroethene

Concen: 21.110 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

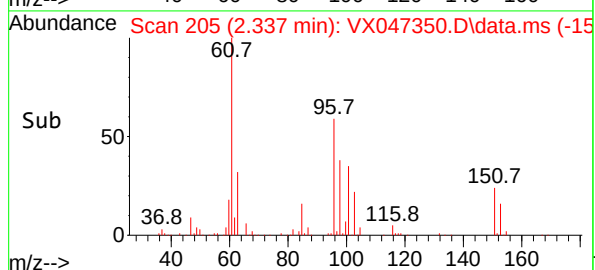
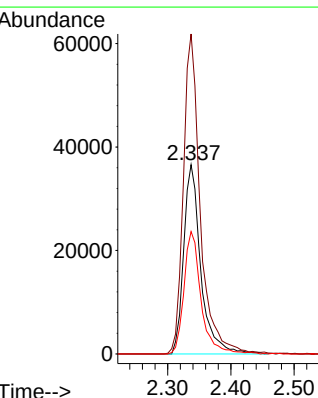
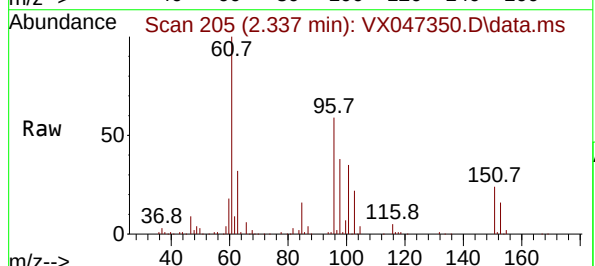
Tgt Ion: 96 Resp: 68973

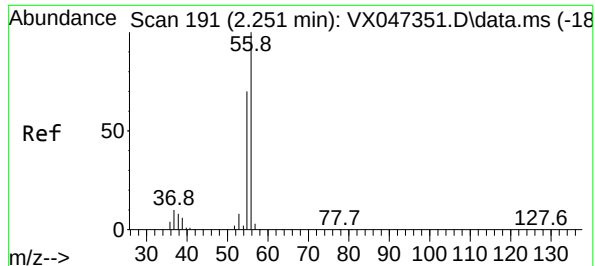
Ion Ratio Lower Upper

96 100

61 168.6 132.2 198.2

98 64.7 51.2 76.8





#13

Acrolein

Concen: 94.809 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 6323

Ion Ratio Lower Upper

56 100

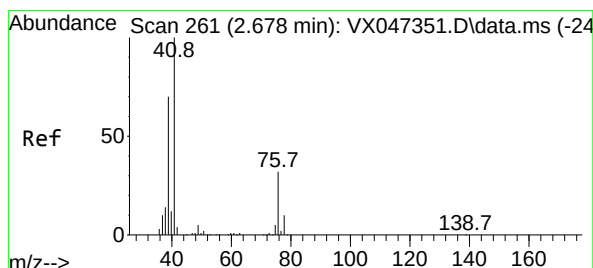
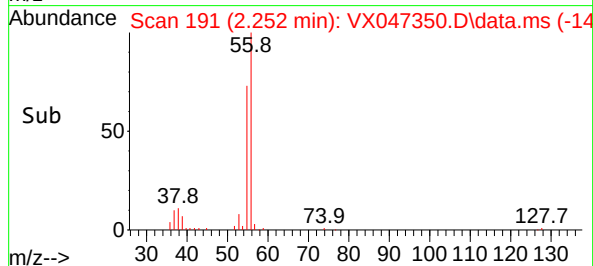
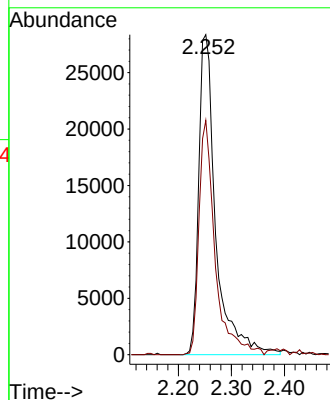
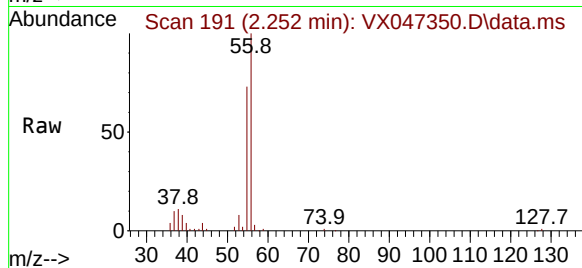
55 69.1 55.5 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#14

Allyl chloride

Concen: 20.902 ug/l

RT: 2.678 min Scan# 261

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

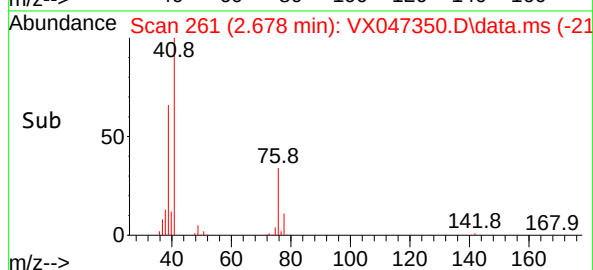
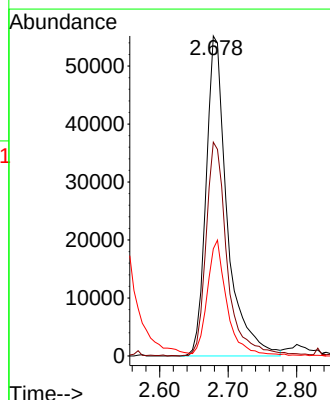
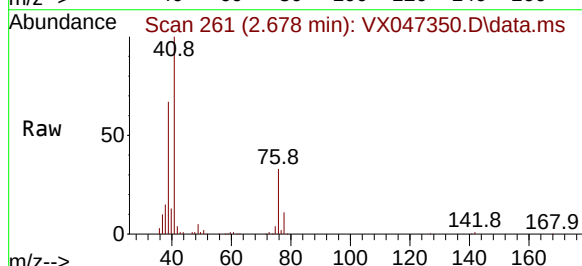
Tgt Ion: 41 Resp: 118613

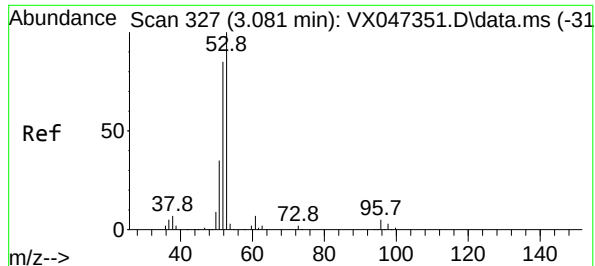
Ion Ratio Lower Upper

41 100

39 67.2 54.6 81.8

76 33.4 27.6 41.4





#15

Acrylonitrile

Concen: 106.830 ug/l

RT: 3.081 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 53 Resp: 16309

Ion Ratio Lower Upper

53 100

52 81.2 65.8 98.6

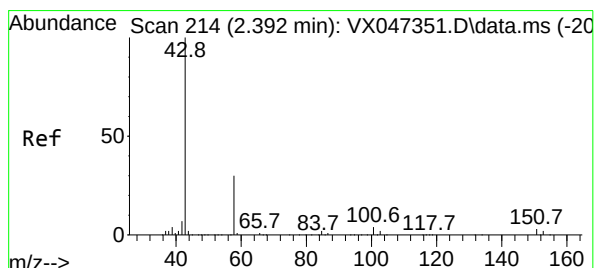
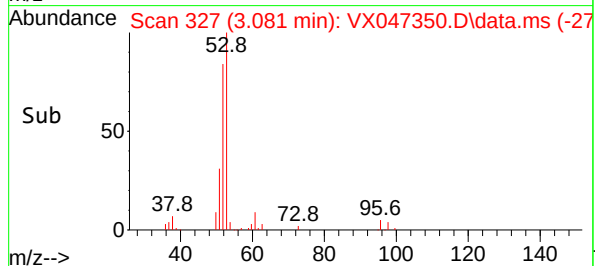
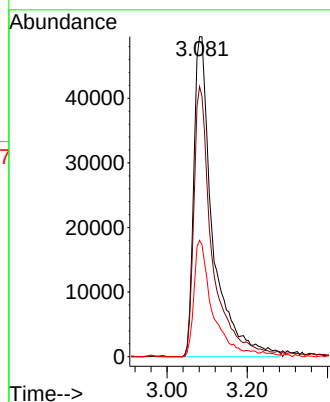
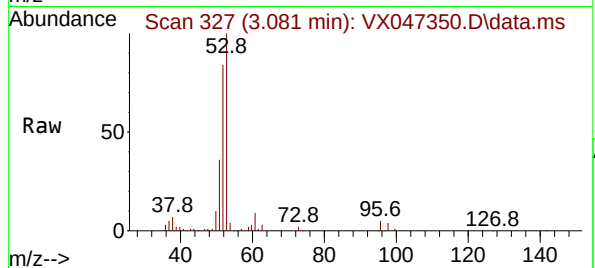
51 35.4 28.2 42.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#16

Acetone

Concen: 117.954 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX047350.D

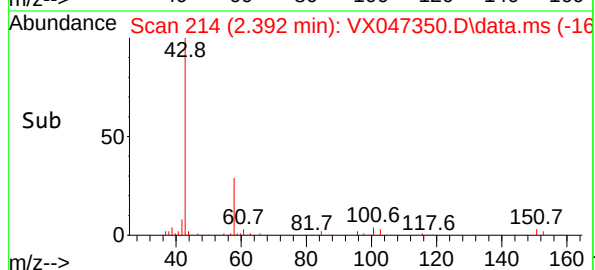
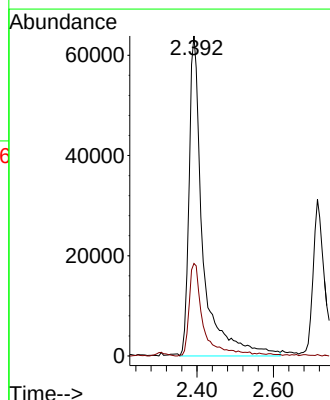
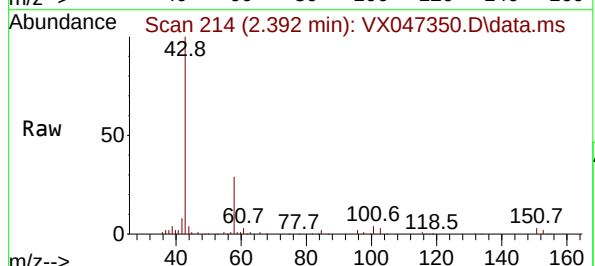
Acq: 15 Aug 2025 10:01

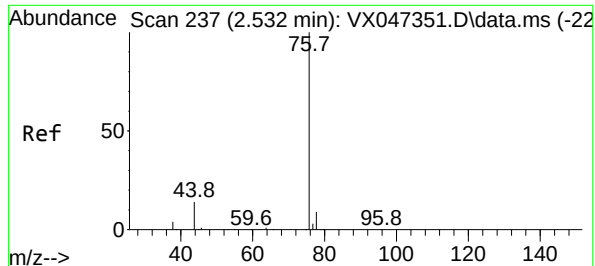
Tgt Ion: 43 Resp: 161019

Ion Ratio Lower Upper

43 100

58 28.5 24.8 37.2





#17

Carbon Disulfide

Concen: 20.167 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 198834

Ion Ratio Lower Upper

76 100

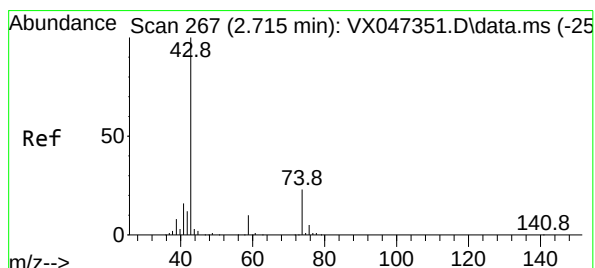
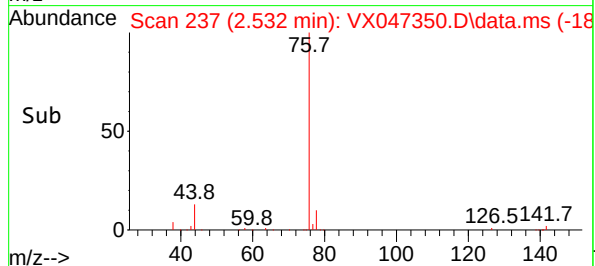
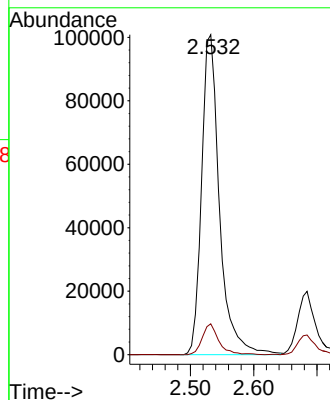
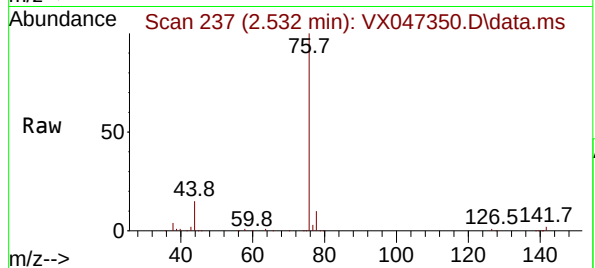
78 9.6 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#18

Methyl Acetate

Concen: 19.410 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.000 min

Lab File: VX047350.D

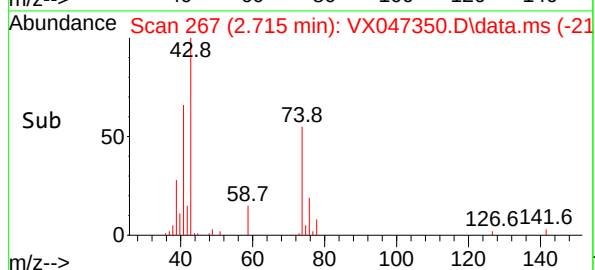
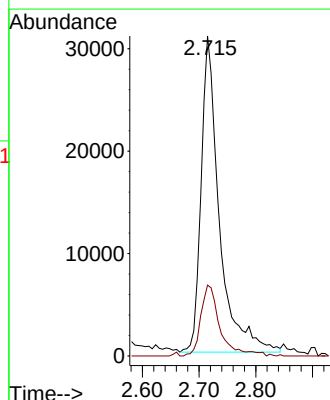
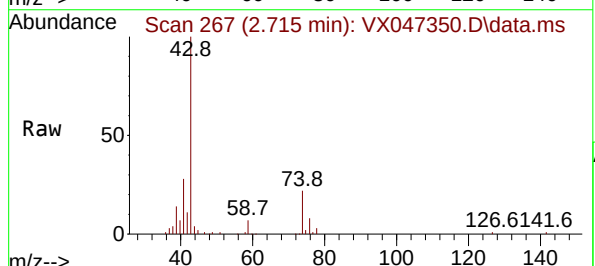
Acq: 15 Aug 2025 10:01

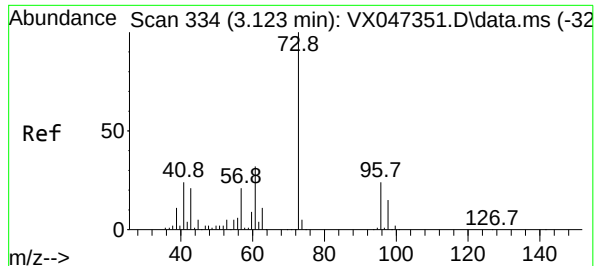
Tgt Ion: 43 Resp: 68662

Ion Ratio Lower Upper

43 100

74 23.7 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 21.080 ug/l

RT: 3.130 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 20952

Ion Ratio Lower Upper

73 100

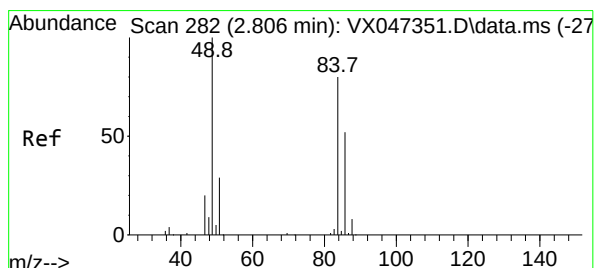
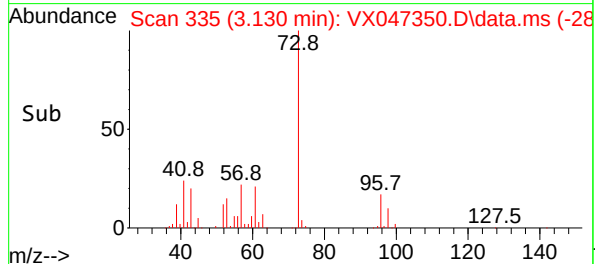
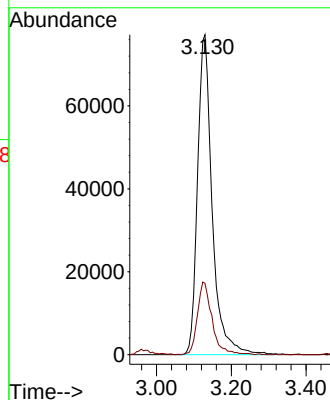
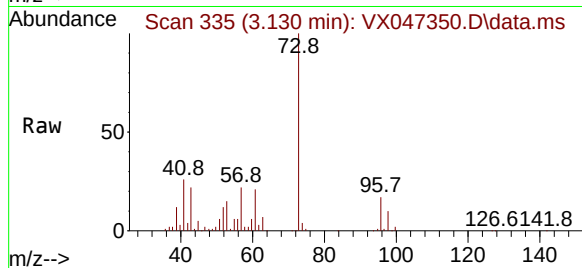
57 22.3 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#20

Methylene Chloride

Concen: 21.033 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Tgt Ion: 84 Resp: 76029

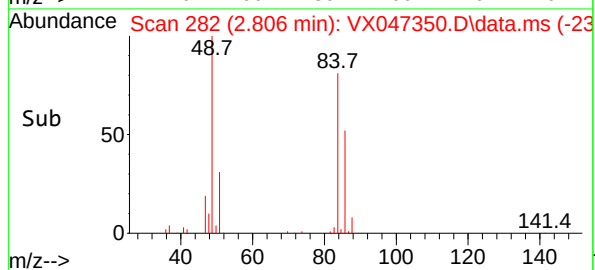
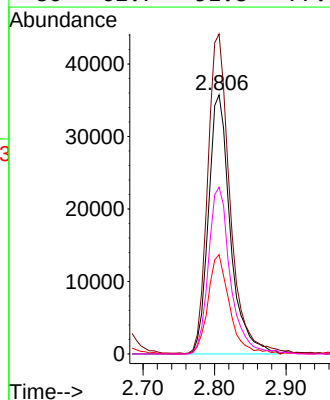
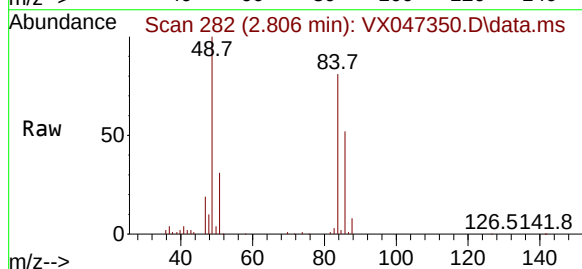
Ion Ratio Lower Upper

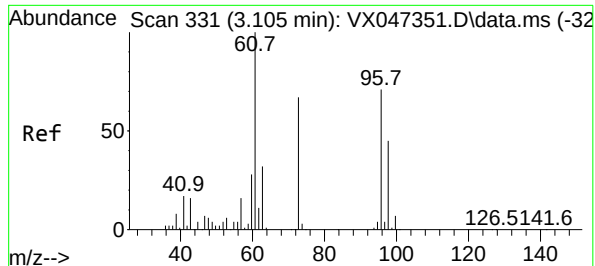
84 100

49 120.0 100.1 150.1

51 37.4 29.5 44.3

86 62.7 51.8 77.8





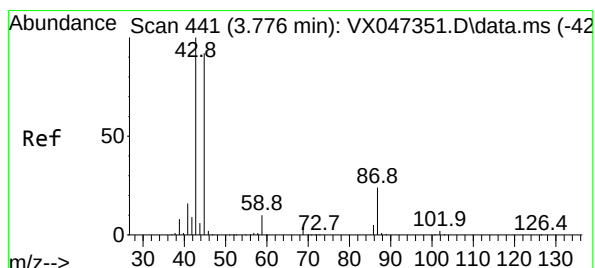
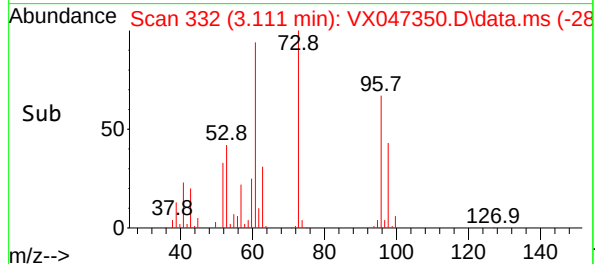
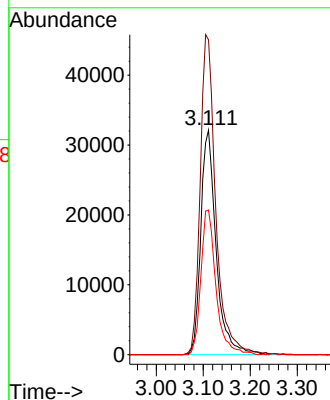
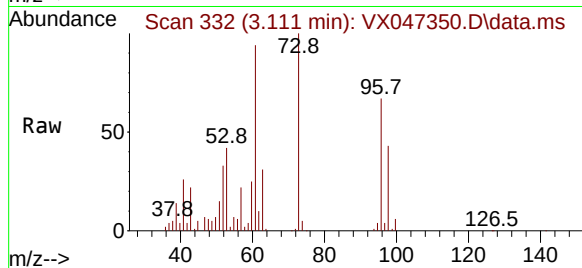
#21
trans-1,2-Dichloroethene
Concen: 21.110 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 7320
Ion Ratio Lower Upper
96 100
61 140.3 112.6 169.0
98 64.4 50.9 76.3

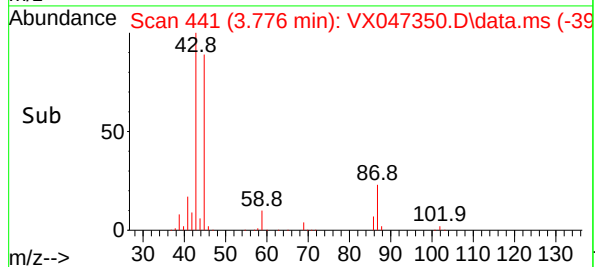
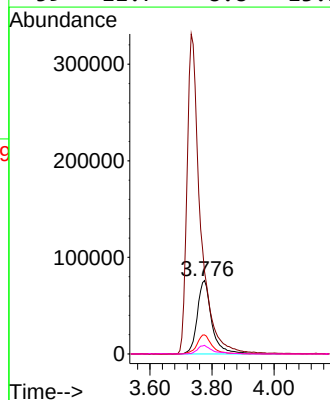
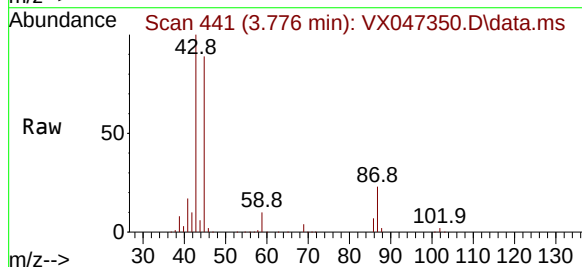
Manual Integrations
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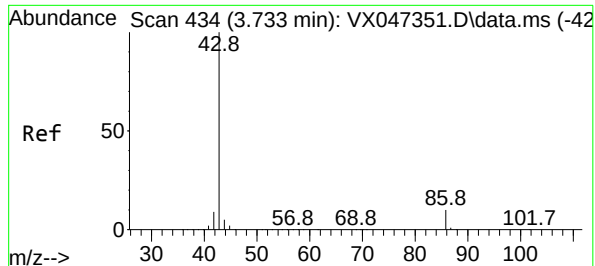
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#22
Diisopropyl ether
Concen: 21.949 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 45 Resp: 246210
Ion Ratio Lower Upper
45 100
43 111.5 86.8 130.2
87 26.0 20.4 30.6
59 11.7 8.8 13.2





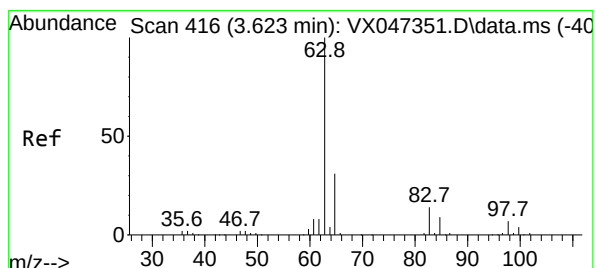
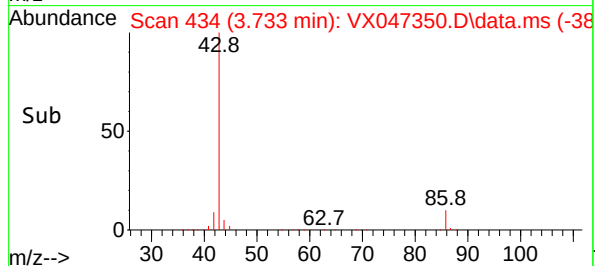
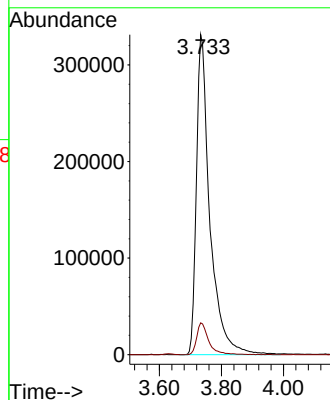
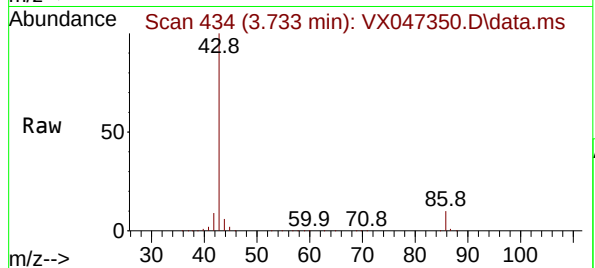
#23
Vinyl Acetate
Concen: 108.348 ug/l
RT: 3.733 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 996178
Ion Ratio Lower Upper
43 100
86 10.8 7.9 11.9

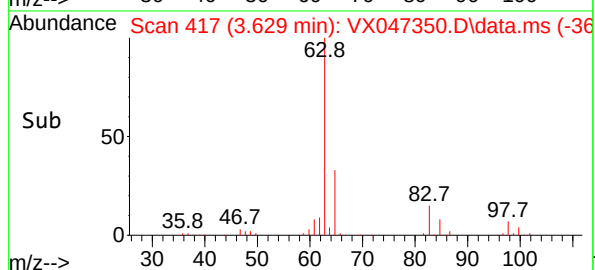
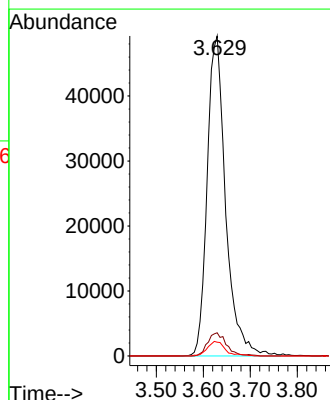
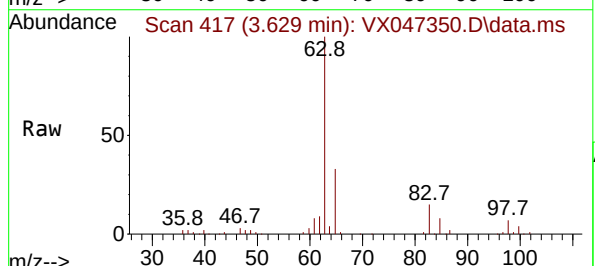
Manual Integrations
APPROVED

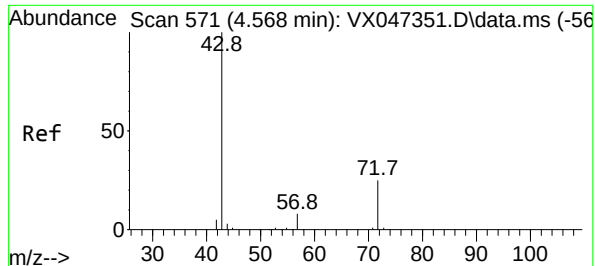
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#24
1,1-Dichloroethane
Concen: 21.177 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 63 Resp: 134271
Ion Ratio Lower Upper
63 100
98 7.2 3.3 9.9
100 4.5 2.1 6.3





#25

2-Butanone

Concen: 109.614 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 19597

Ion Ratio Lower Upper

43 100

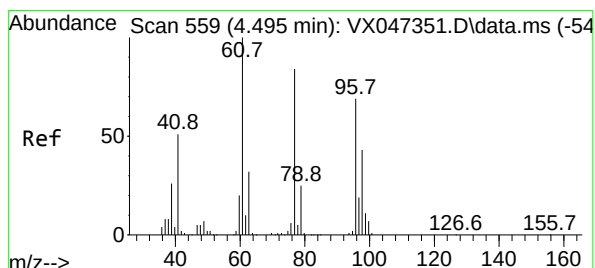
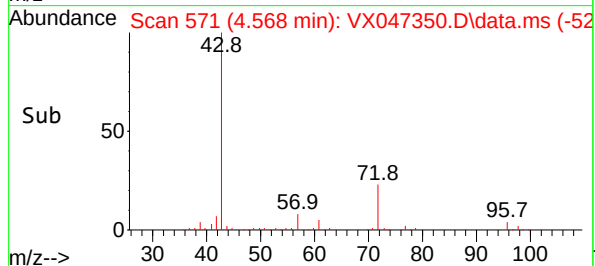
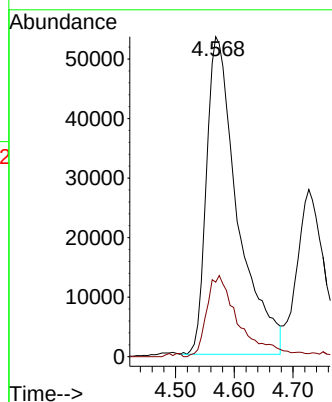
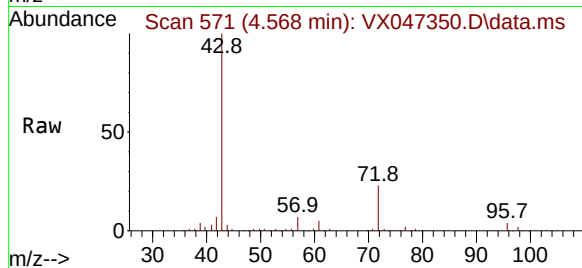
72 22.7 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#26

2,2-Dichloropropane

Concen: 21.177 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX047350.D

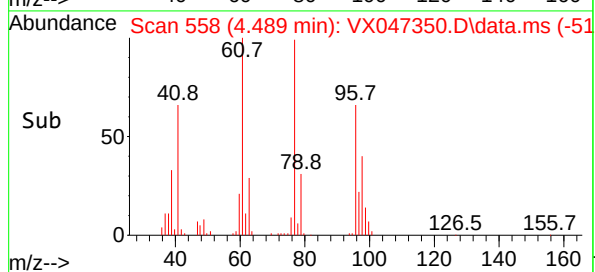
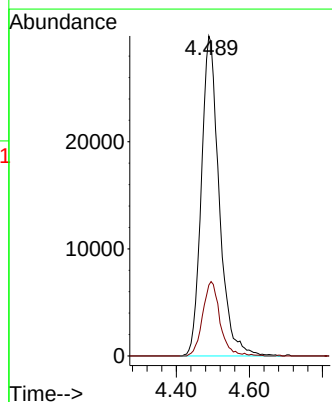
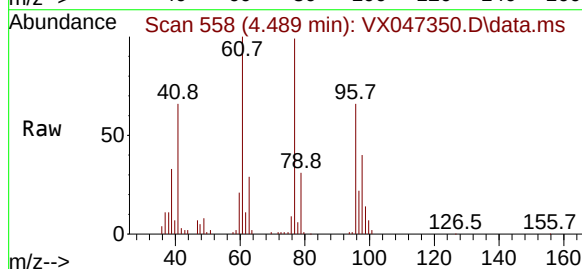
Acq: 15 Aug 2025 10:01

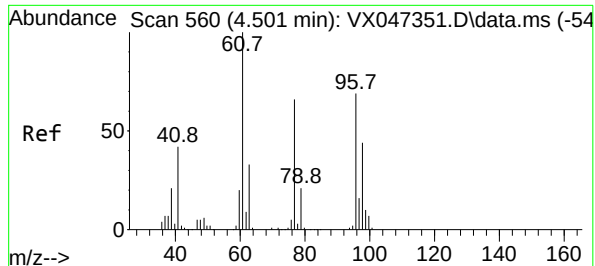
Tgt Ion: 77 Resp: 101341

Ion Ratio Lower Upper

77 100

97 22.5 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 21.217 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 8569

Ion Ratio Lower Upper

96 100

61 145.8 0.0 296.6

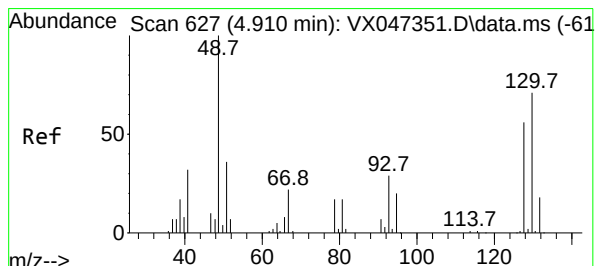
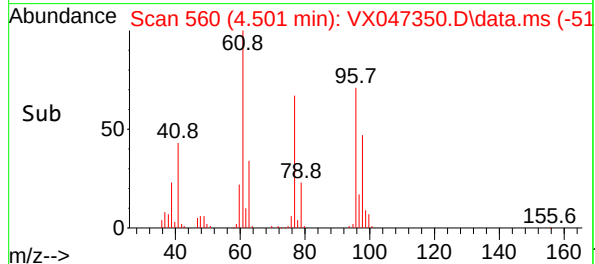
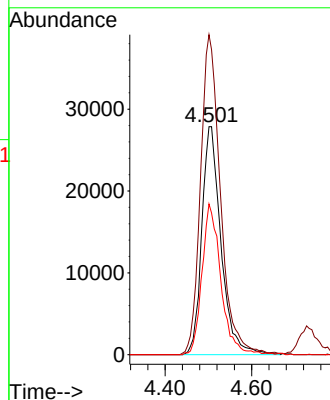
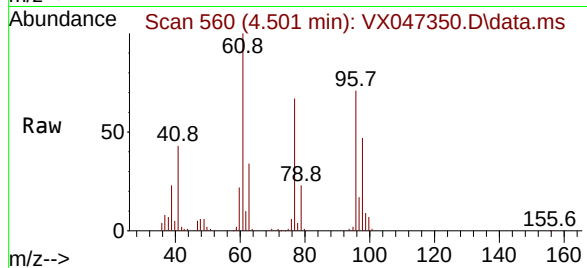
98 64.8 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#28

Bromochloromethane

Concen: 15.812 ug/l

RT: 4.910 min Scan# 627

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

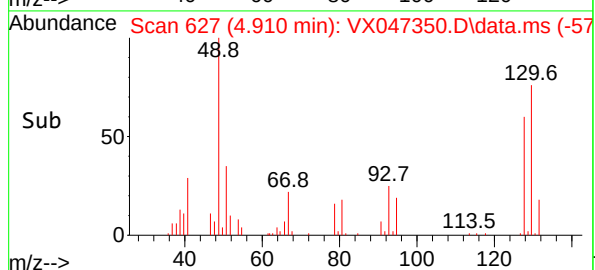
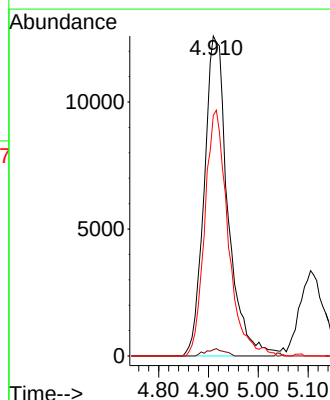
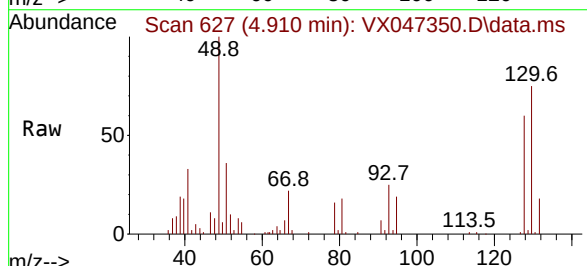
Tgt Ion: 49 Resp: 41717

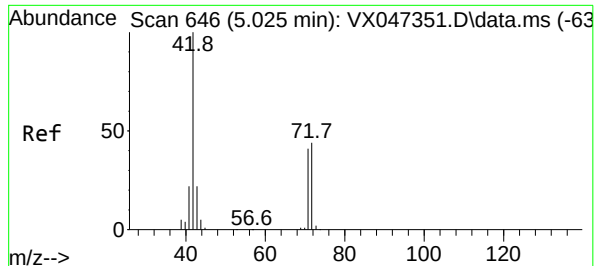
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 74.3 59.8 89.6





#29

Tetrahydrofuran

Concen: 102.002 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 42 Resp: 117869

Ion Ratio Lower Upper

42 100

72 40.0 34.6 51.8

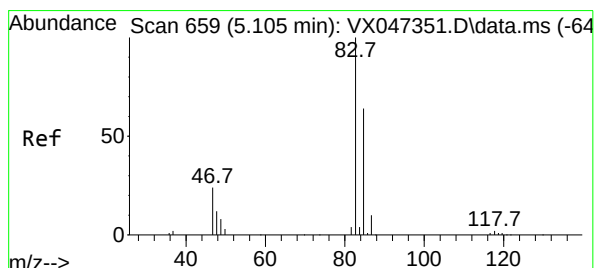
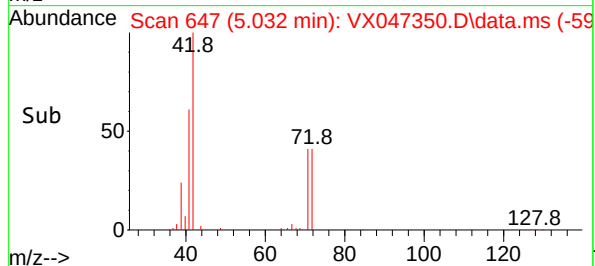
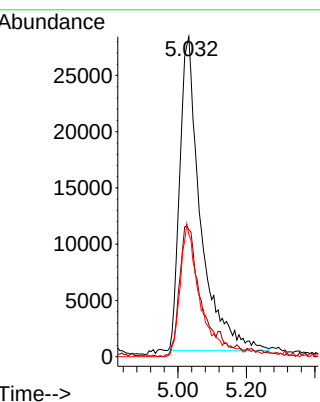
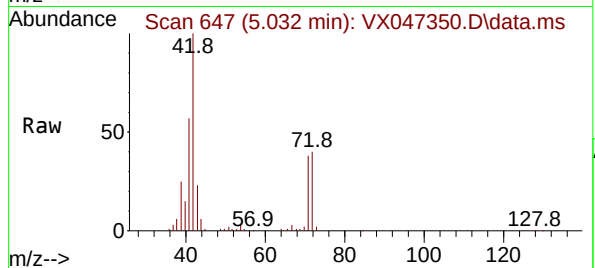
71 40.9 32.6 49.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#30

Chloroform

Concen: 21.309 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.000 min

Lab File: VX047350.D

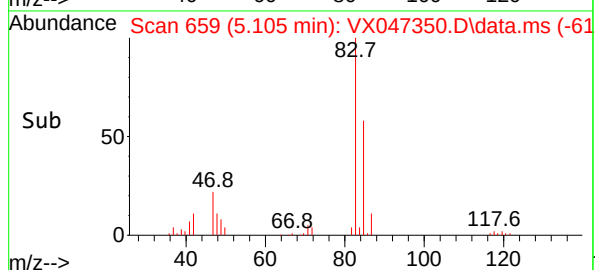
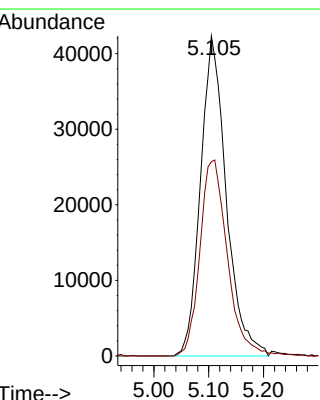
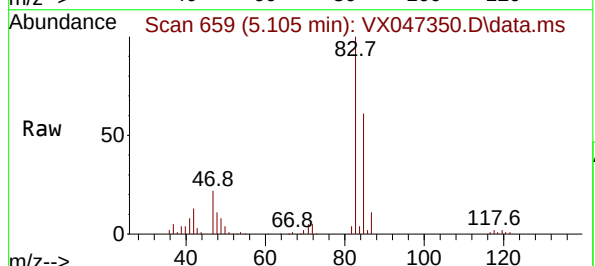
Acq: 15 Aug 2025 10:01

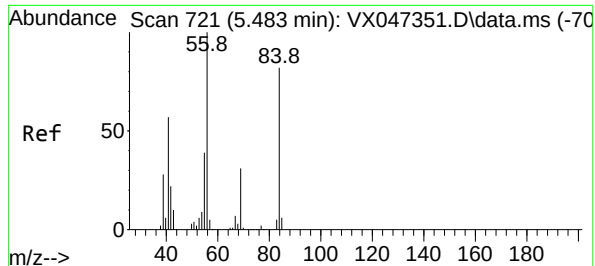
Tgt Ion: 83 Resp: 137885

Ion Ratio Lower Upper

83 100

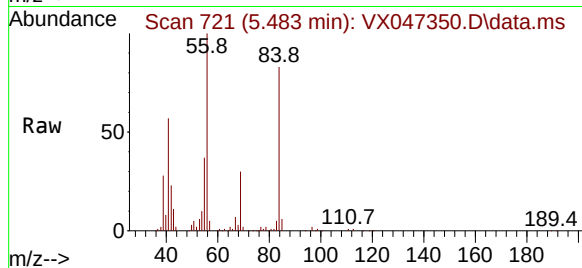
85 60.7 51.2 76.8





#31
Cyclohexane
Concen: 21.348 ug/l
RT: 5.483 min Scan# 721
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

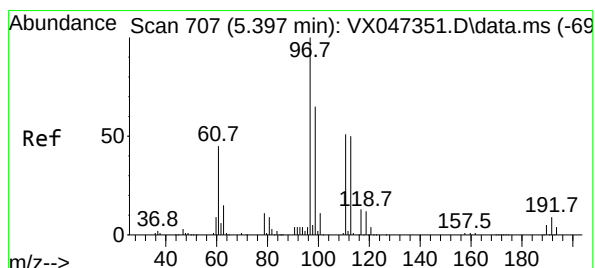
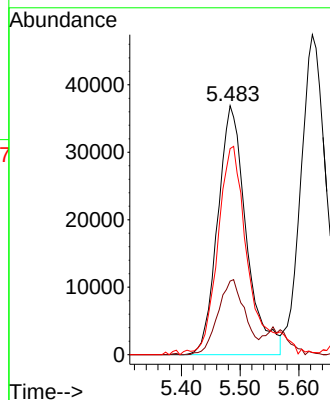
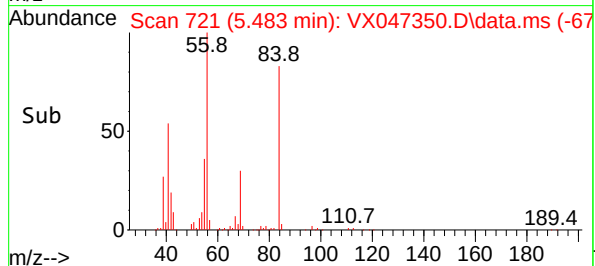
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 56 Resp: 124775
Ion Ratio Lower Upper
56 100
69 28.8 24.3 36.5
84 82.8 65.3 97.9

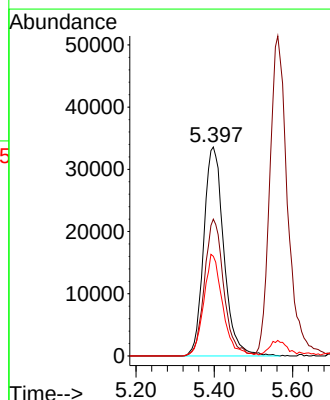
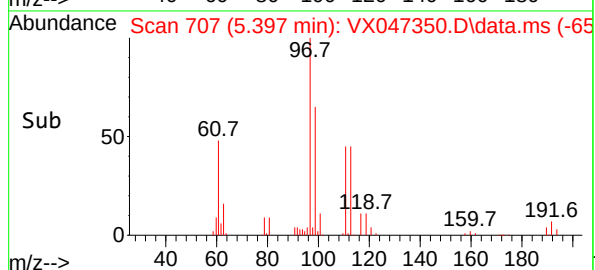
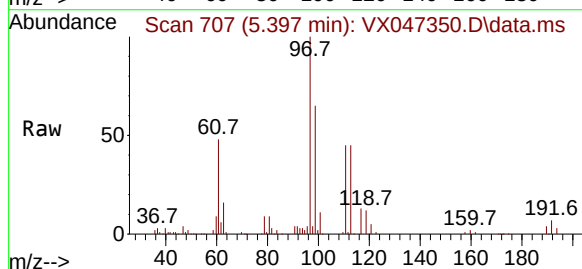
Manual Integrations
APPROVED

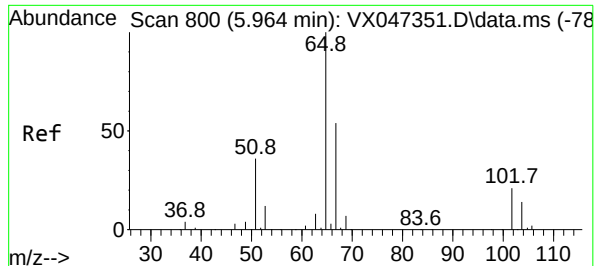
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#32
1,1,1-Trichloroethane
Concen: 21.445 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 97 Resp: 119441
Ion Ratio Lower Upper
97 100
99 62.5 51.4 77.0
61 46.0 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 16.601 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 60290

Ion Ratio Lower Upper

65 100

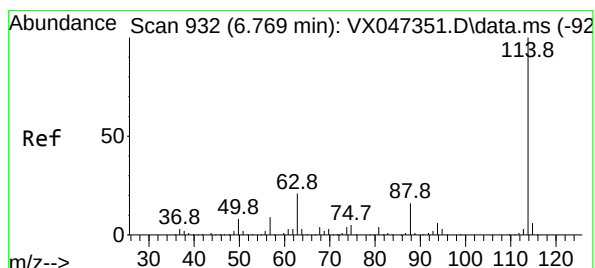
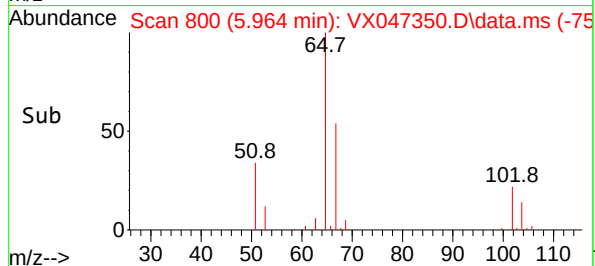
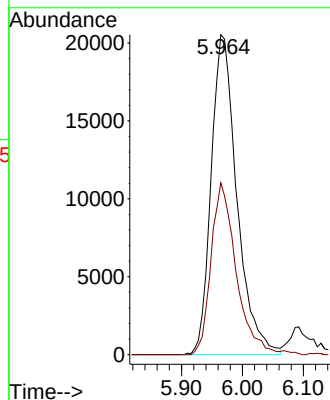
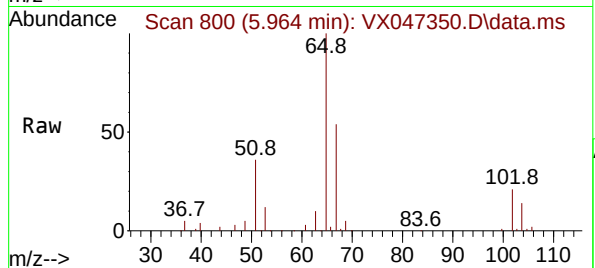
67 52.1 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

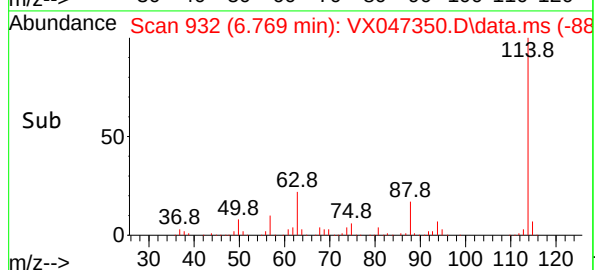
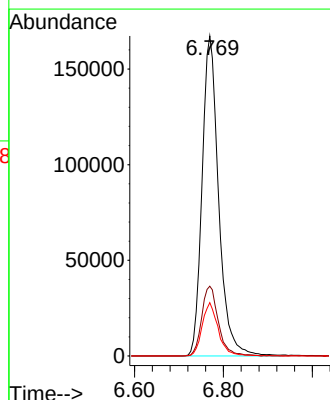
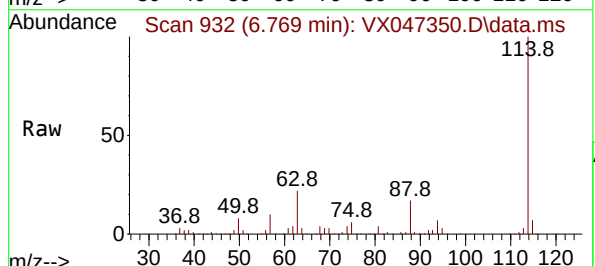
Tgt Ion:114 Resp: 434596

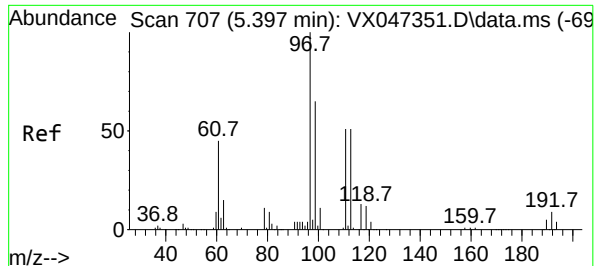
Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.4

88 16.7 0.0 33.0





#35

Dibromofluoromethane

Concen: 17.153 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

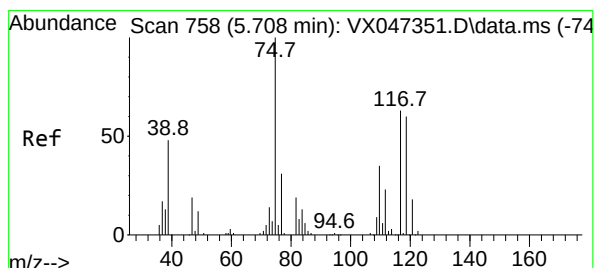
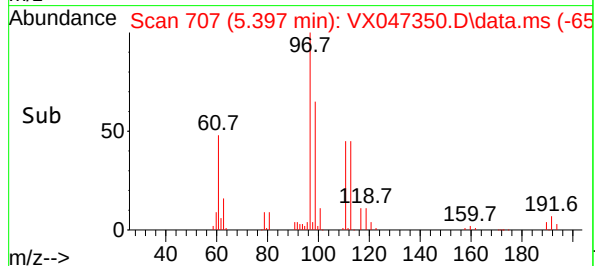
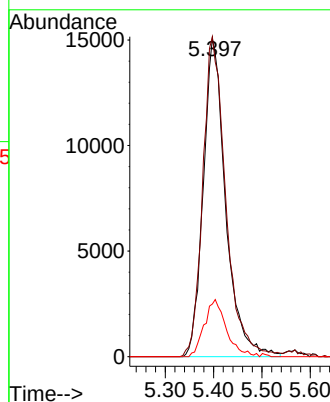
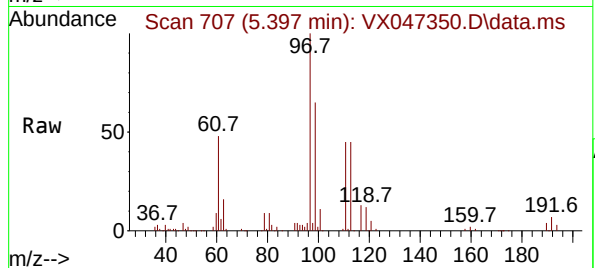
VSTDICC020

Tgt Ion:	113	Resp:	4838
Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.4	122.2
192	17.7	14.1	21.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#36

1,1-Dichloropropene

Concen: 21.494 ug/l

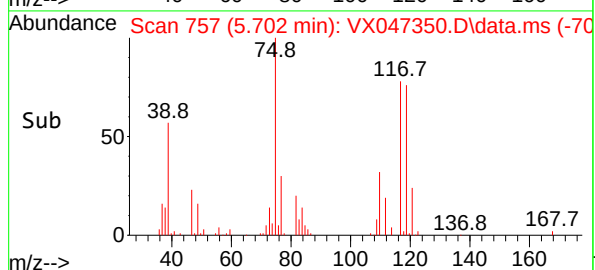
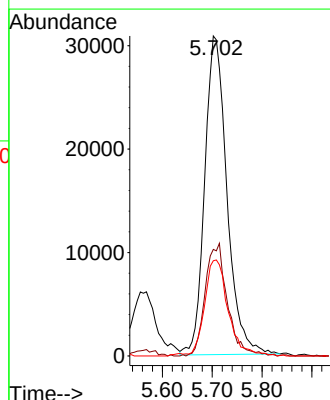
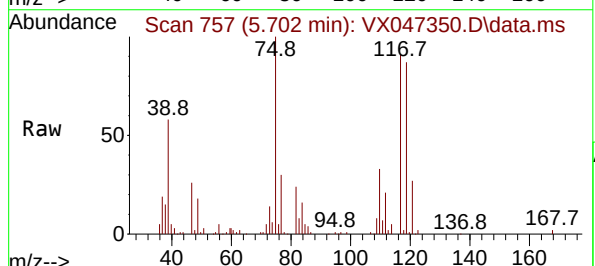
RT: 5.702 min Scan# 757

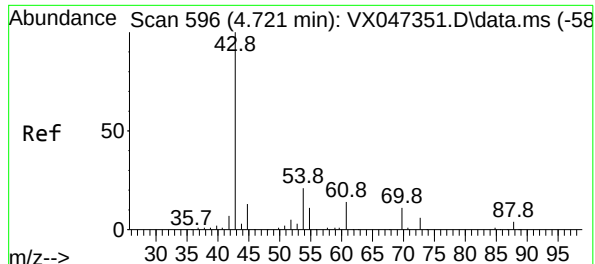
Delta R.T. -0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Tgt Ion:	75	Resp:	95703
Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.4	52.2
77	31.3	24.4	36.6





#37

Ethyl Acetate

Concen: 21.355 ug/l

RT: 4.727 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

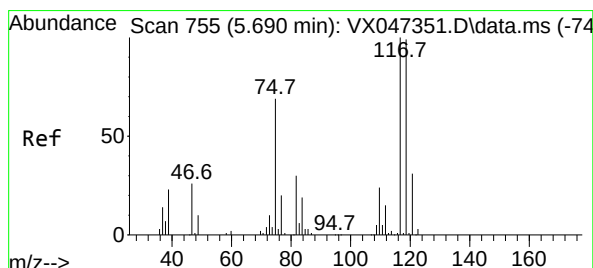
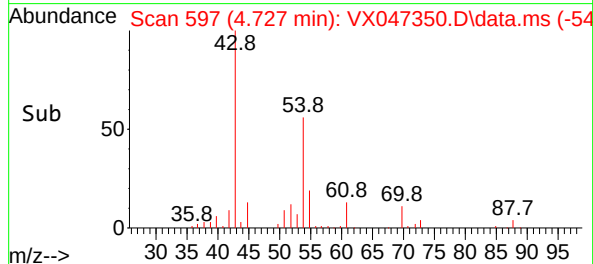
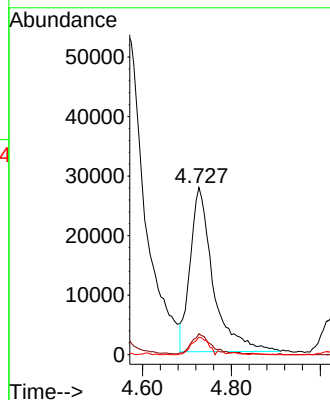
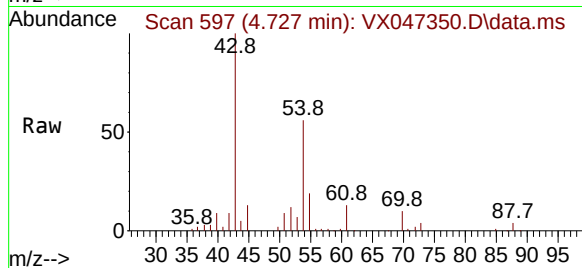
VSTDIC020

Tgt Ion:	43	Resp:	98709
Ion	Ratio	Lower	Upper
43	100		
61	10.0	9.4	14.2
70	7.7	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#38

Carbon Tetrachloride

Concen: 21.296 ug/l

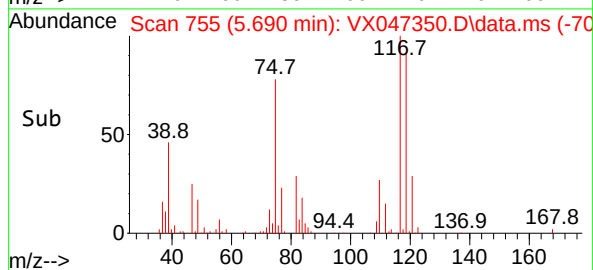
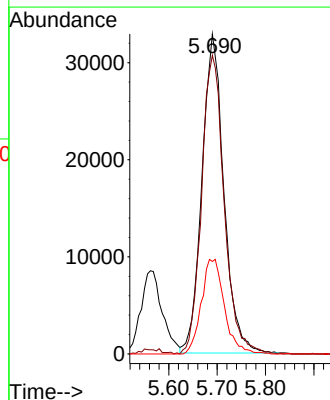
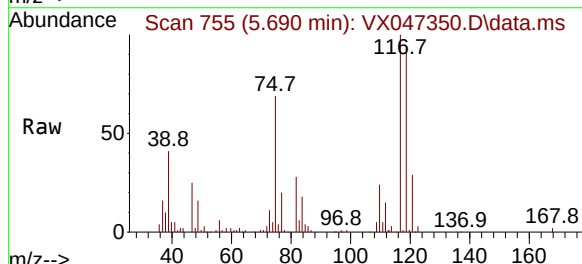
RT: 5.690 min Scan# 755

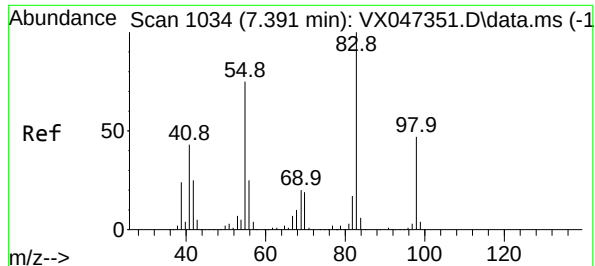
Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Tgt Ion:	117	Resp:	103616
Ion	Ratio	Lower	Upper
117	100		
119	93.6	78.5	117.7
121	29.0	24.7	37.1





#39

Methylcyclohexane

Concen: 21.051 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 83 Resp: 11691

Ion Ratio Lower Upper

83 100

55 80.4 60.0 90.0

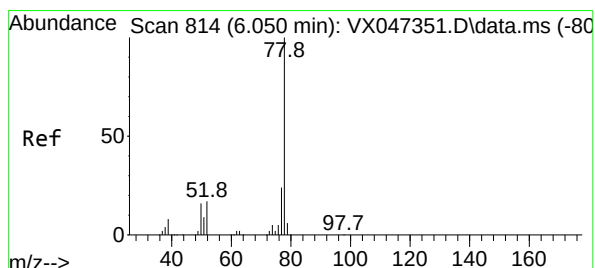
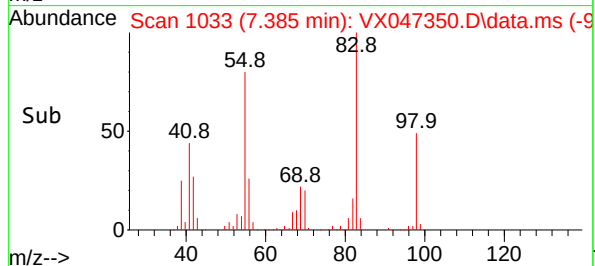
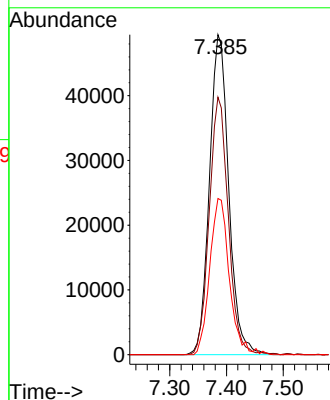
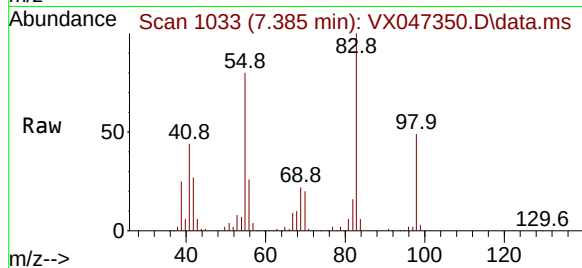
98 48.8 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#40

Benzene

Concen: 21.716 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX047350.D

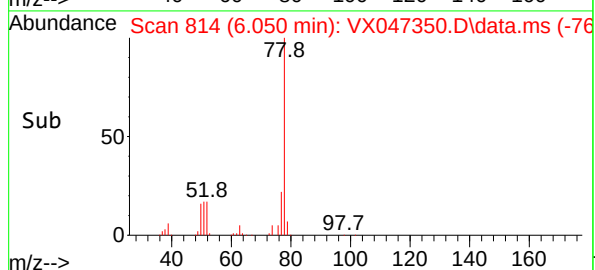
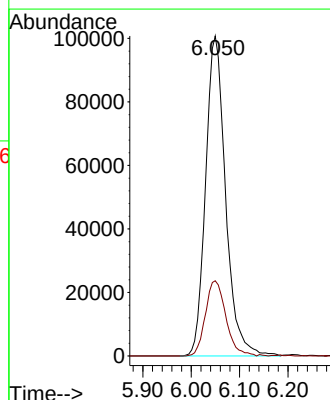
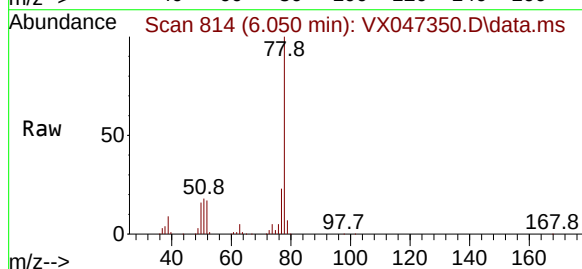
Acq: 15 Aug 2025 10:01

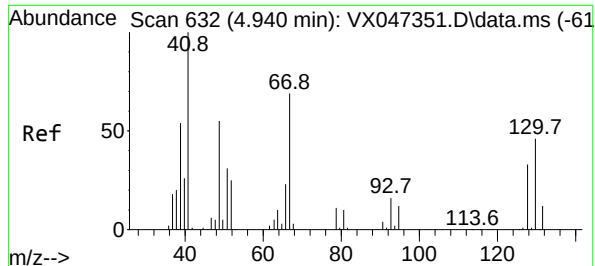
Tgt Ion: 78 Resp: 289406

Ion Ratio Lower Upper

78 100

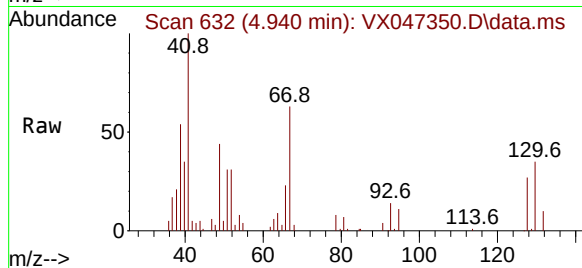
77 23.5 19.0 28.4





#41
Methacrylonitrile
Concen: 21.799 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

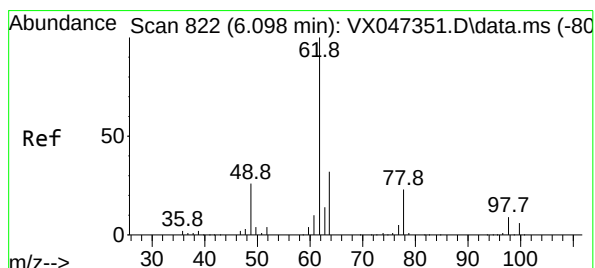
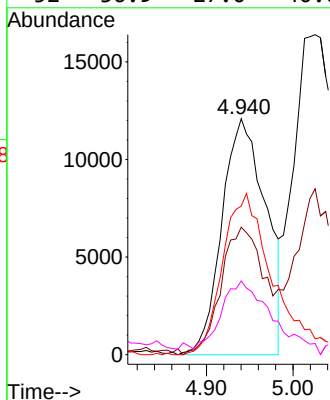
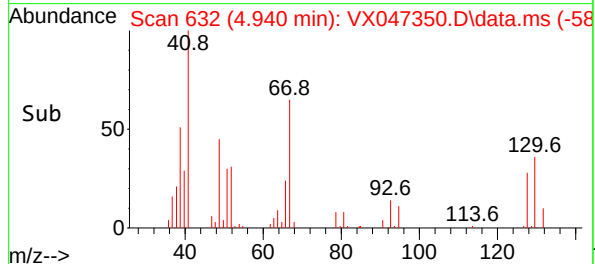
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 41 Resp: 42490
Ion Ratio Lower Upper
41 100
39 51.9 45.4 68.2
67 78.9 64.0 96.0
52 36.9 27.0 40.6

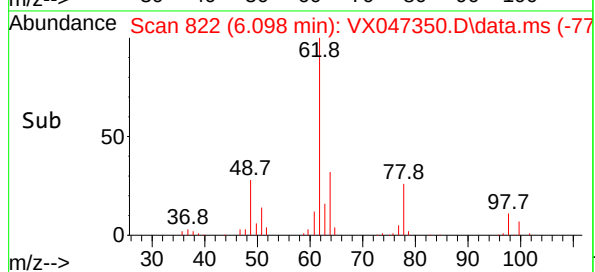
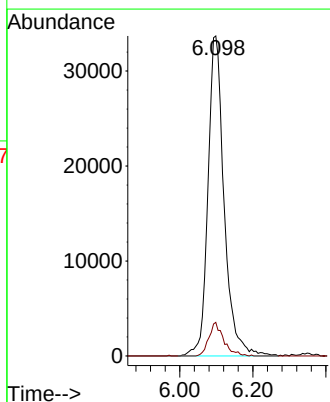
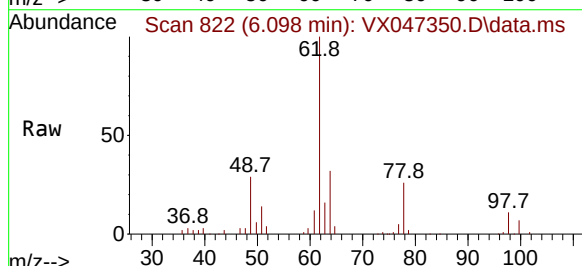
Manual Integrations
APPROVED

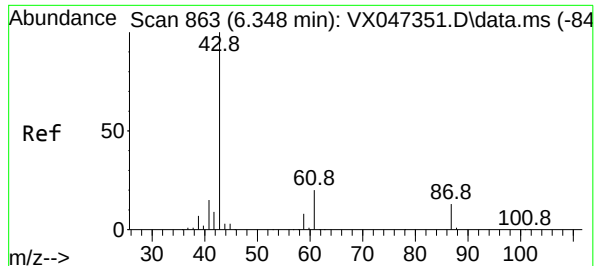
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#42
1,2-Dichloroethane
Concen: 21.867 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 62 Resp: 103227
Ion Ratio Lower Upper
62 100
98 9.6 0.0 18.0





#43

Isopropyl Acetate

Concen: 21.243 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 141062

Ion Ratio Lower Upper

43 100

61 19.3 15.4 23.0

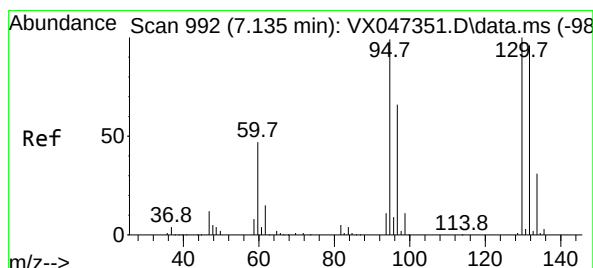
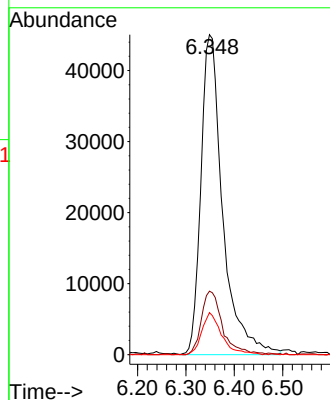
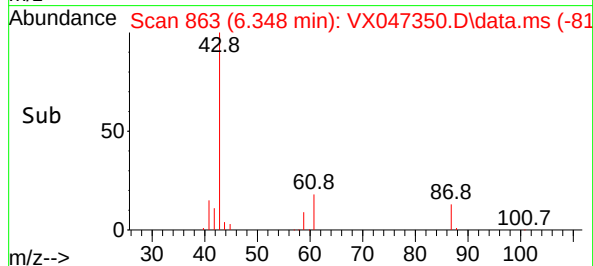
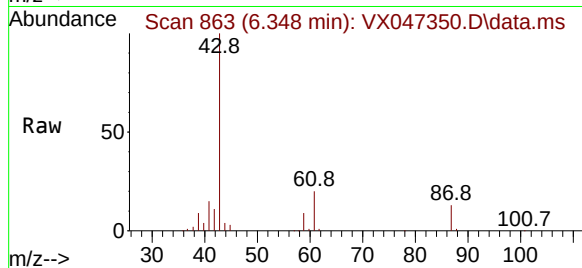
87 12.0 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#44

Trichloroethene

Concen: 21.546 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX047350.D

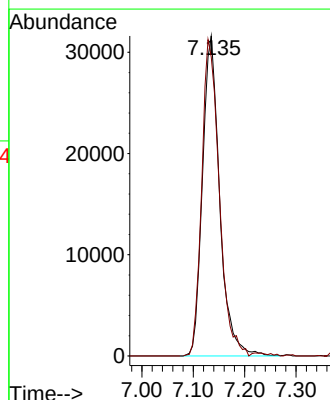
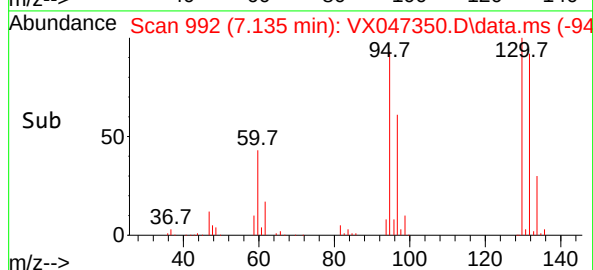
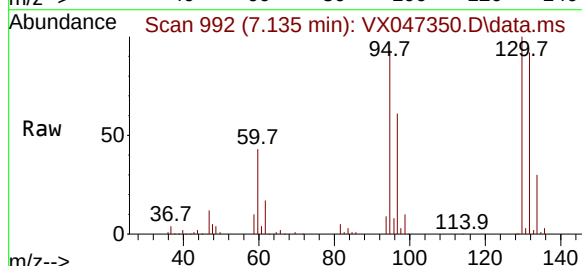
Acq: 15 Aug 2025 10:01

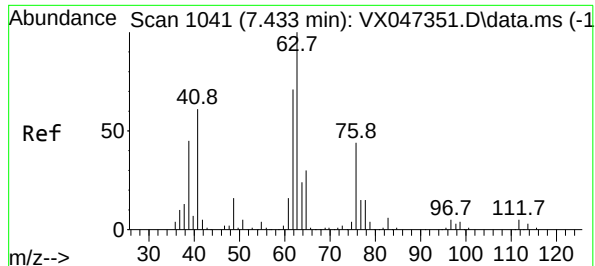
Tgt Ion:130 Resp: 73526

Ion Ratio Lower Upper

130 100

95 93.5 0.0 198.6





#45

1,2-Dichloropropane

Concen: 21.601 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 72118

Ion Ratio Lower Upper

63 100

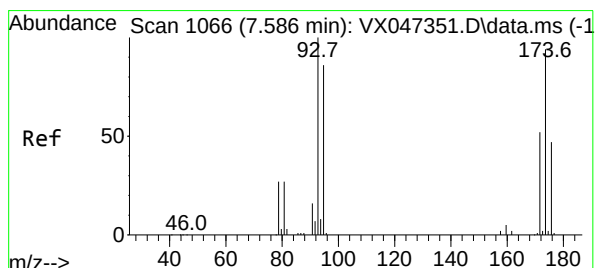
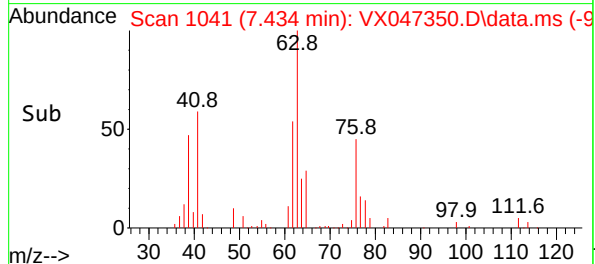
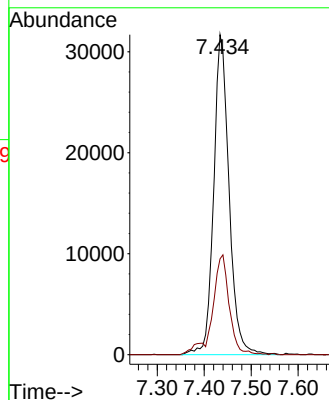
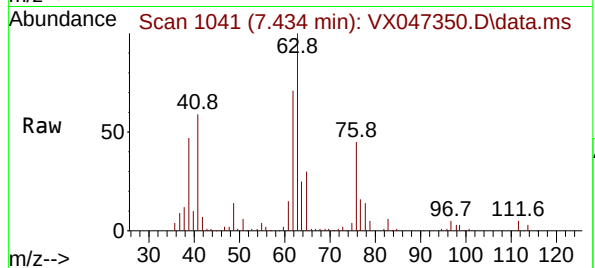
65 30.0 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#46

Dibromomethane

Concen: 21.648 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

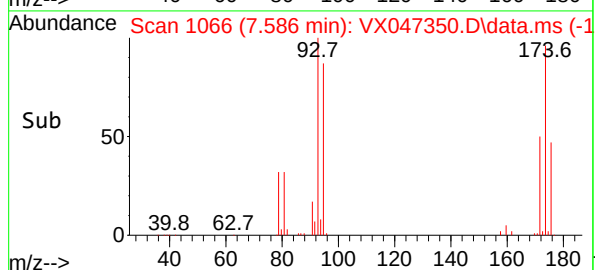
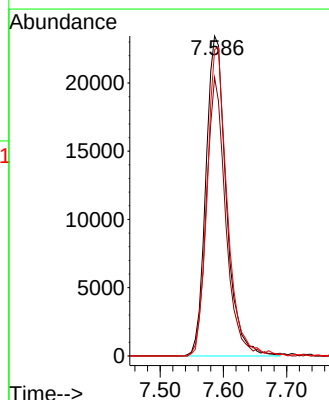
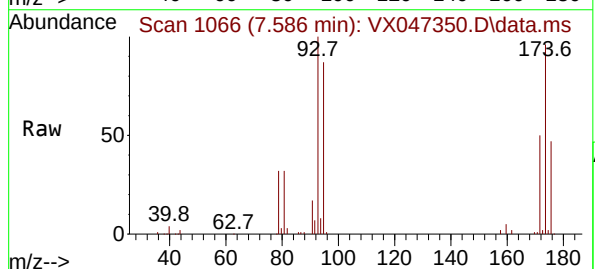
Tgt Ion: 93 Resp: 52472

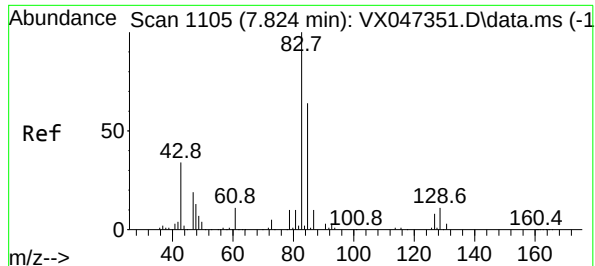
Ion Ratio Lower Upper

93 100

95 82.8 68.0 102.0

174 95.1 75.8 113.6





#47

Bromodichloromethane

Concen: 21.491 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

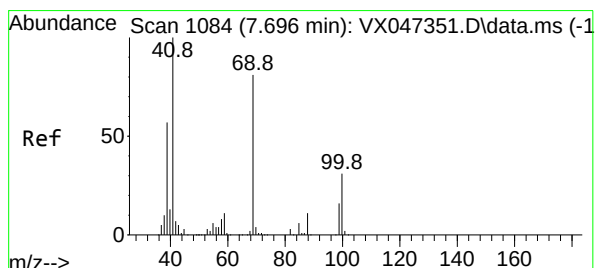
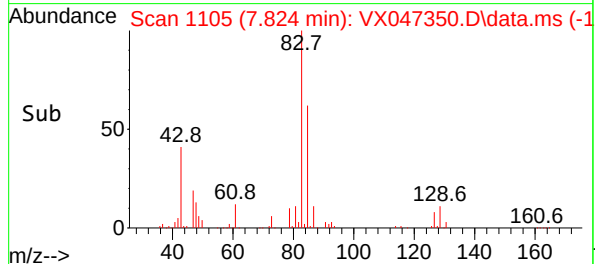
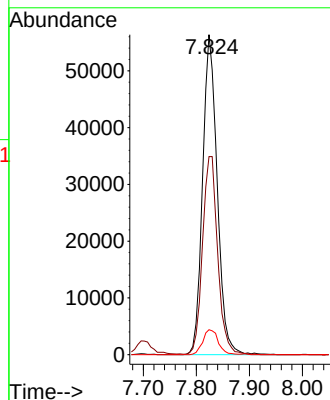
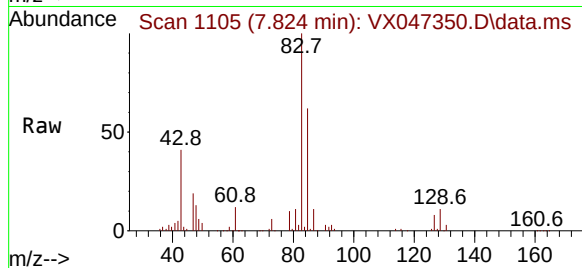
VSTDICC020

Tgt Ion:	83	Resp:	107990
Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.0	76.6
127	7.8	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#48

Methyl methacrylate

Concen: 21.111 ug/l

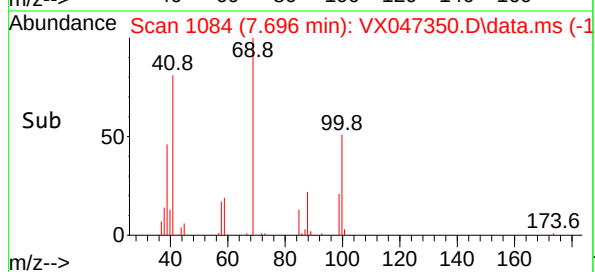
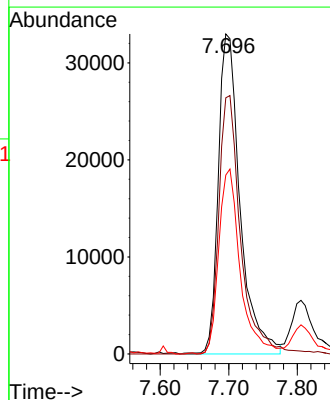
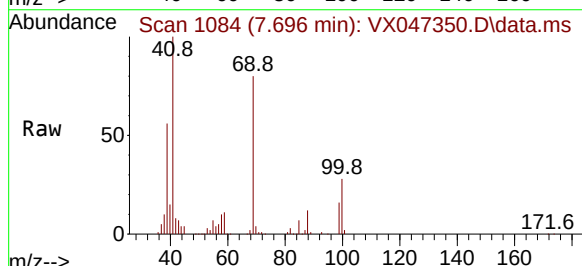
RT: 7.696 min Scan# 1084

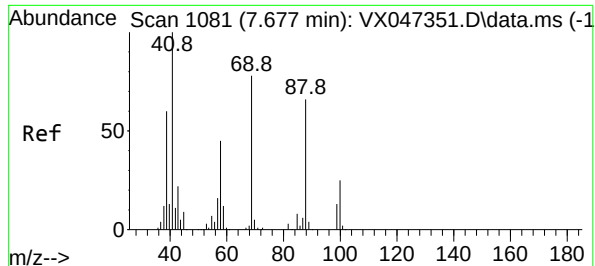
Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Tgt Ion:	41	Resp:	72765
Ion	Ratio	Lower	Upper
41	100		
69	81.0	65.0	97.4
39	56.6	45.7	68.5





#49

1,4-Dioxane

Concen: 414.079 ug/l m

RT: 7.684 min Scan# 1081

Delta R.T. 0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

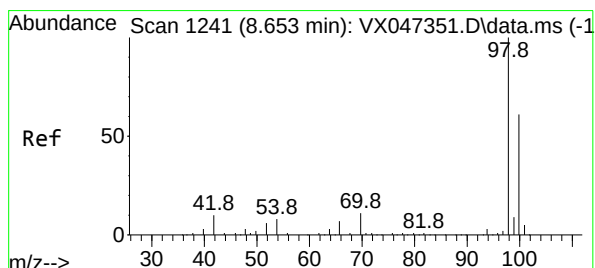
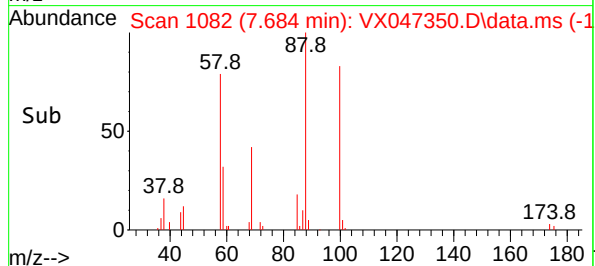
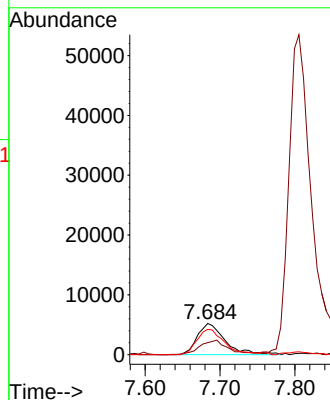
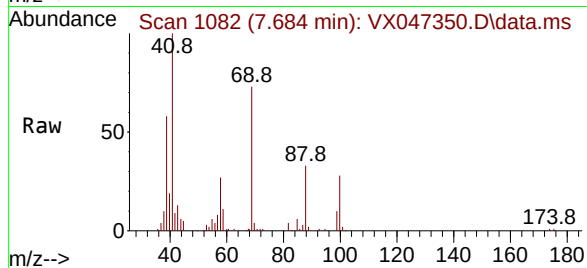
VSTDICC020

Tgt Ion: 88 Resp: 13554
Ion Ratio Lower Upper
88 100
43 47.5 32.4 48.6
58 78.9 56.9 85.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#50

Toluene-d8

Concen: 17.133 ug/l

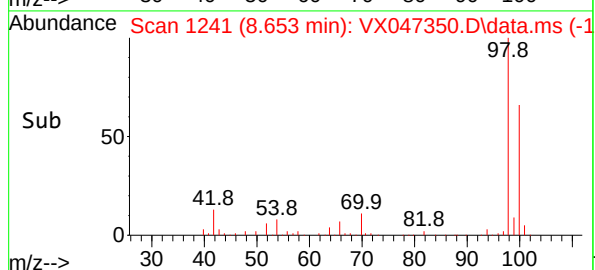
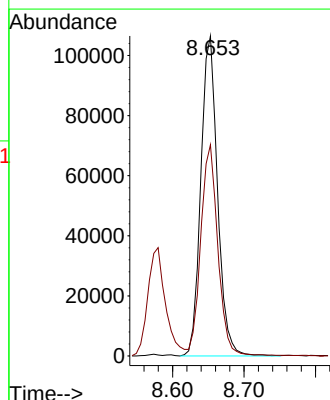
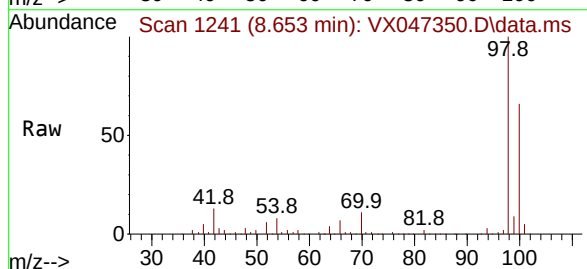
RT: 8.653 min Scan# 1241

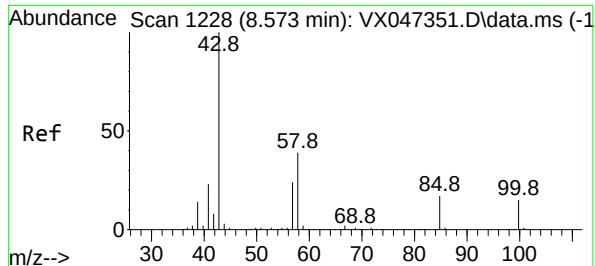
Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Tgt Ion: 98 Resp: 172730
Ion Ratio Lower Upper
98 100
100 66.9 53.9 80.9





#51

4-Methyl-2-Pentanone

Concen: 109.039 ug/l

RT: 8.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 41667

Ion Ratio Lower Upper

43 100

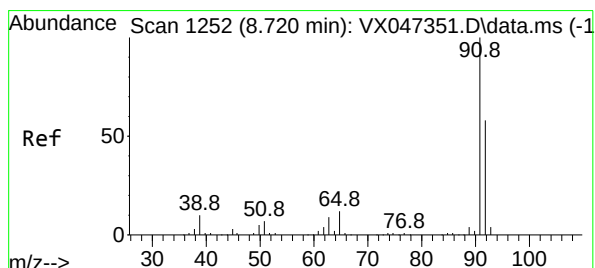
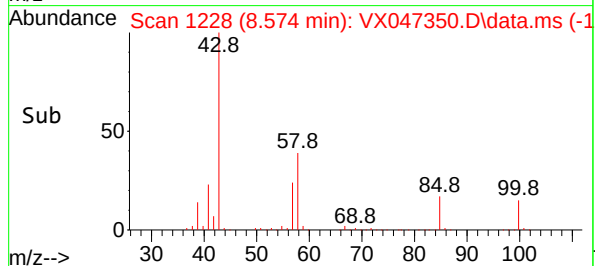
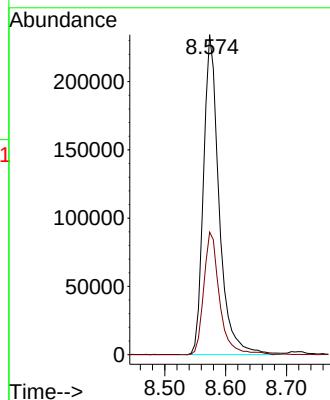
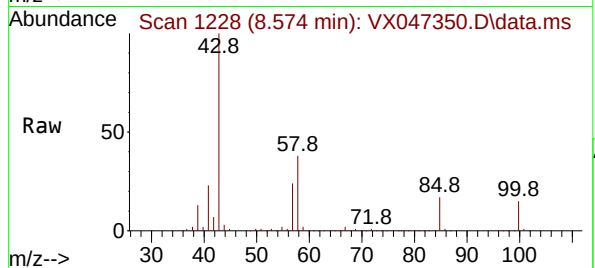
58 38.9 31.2 46.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#52

Toluene

Concen: 22.024 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX047350.D

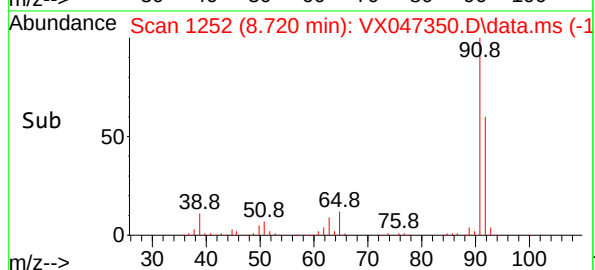
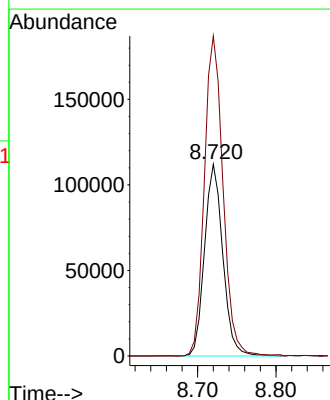
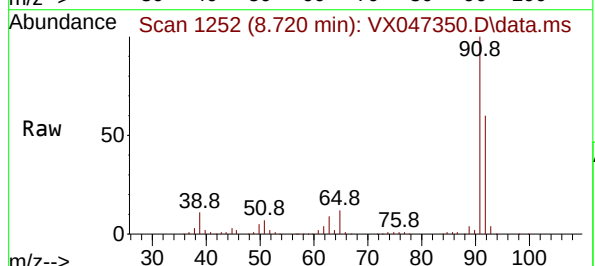
Acq: 15 Aug 2025 10:01

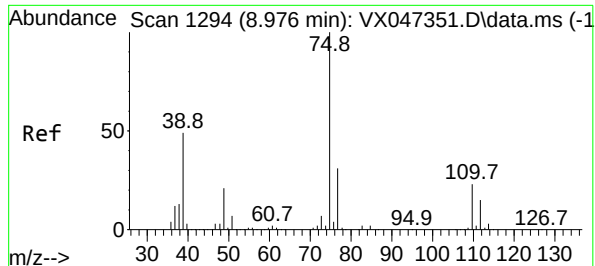
Tgt Ion: 92 Resp: 181368

Ion Ratio Lower Upper

92 100

91 170.3 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 21.275 ug/l

RT: 8.982 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 75 Resp: 93302

Ion Ratio Lower Upper

75 100

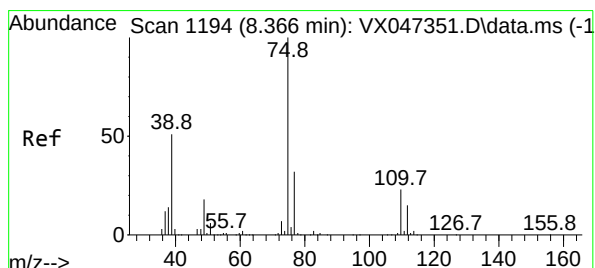
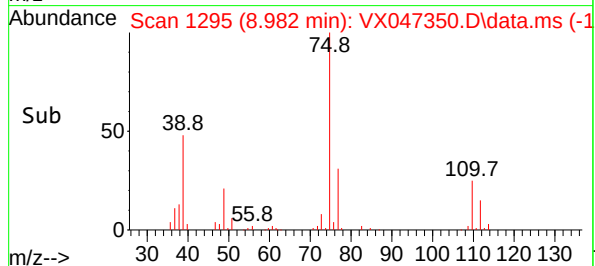
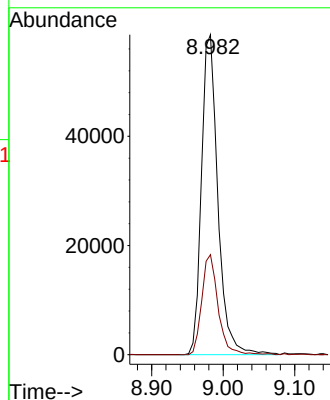
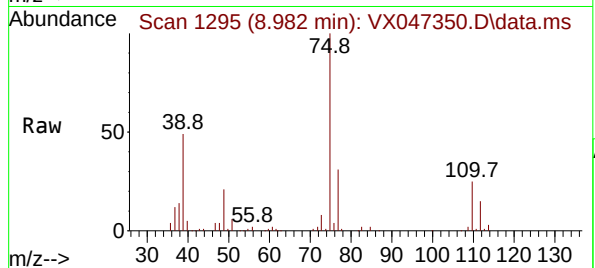
77 31.3 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#54

cis-1,3-Dichloropropene

Concen: 21.294 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

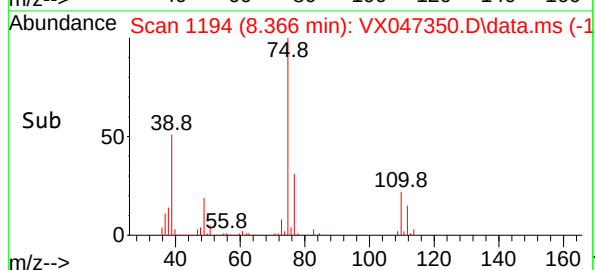
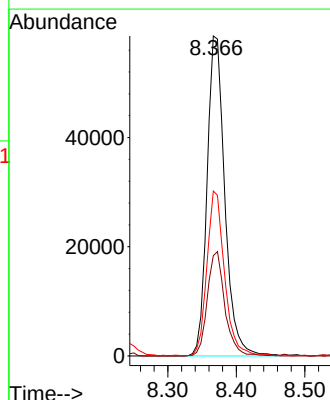
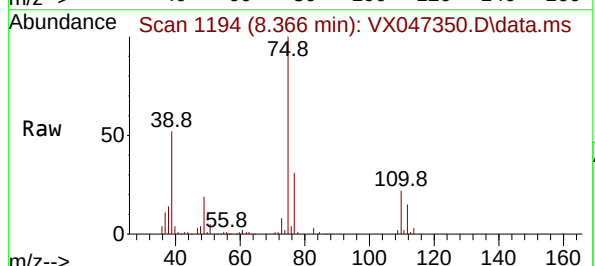
Tgt Ion: 75 Resp: 105701

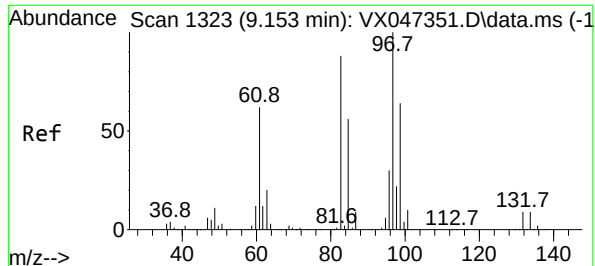
Ion Ratio Lower Upper

75 100

77 31.4 25.6 38.4

39 51.4 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 21.838 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 97 Resp: 6828

Ion Ratio Lower Upper

97 100

83 84.2 70.6 106.0

85 54.2 44.7 67.1

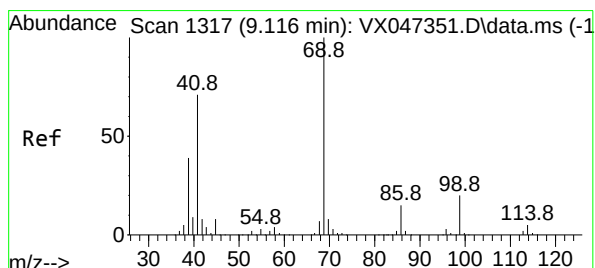
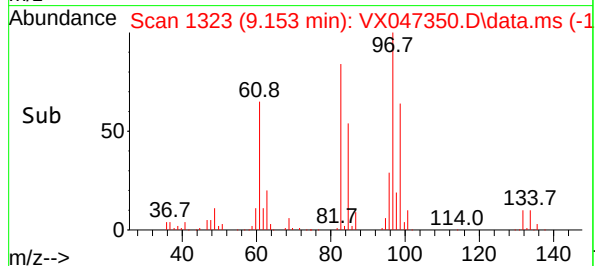
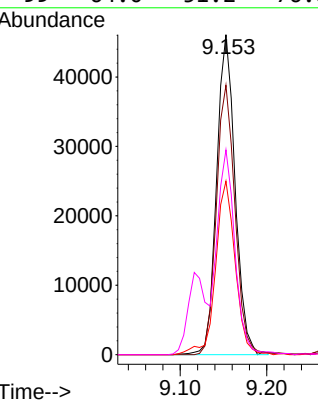
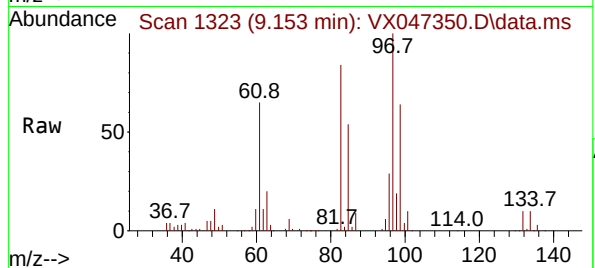
99 64.0 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#56

Ethyl methacrylate

Concen: 21.188 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

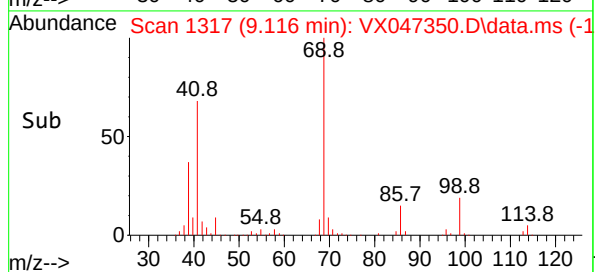
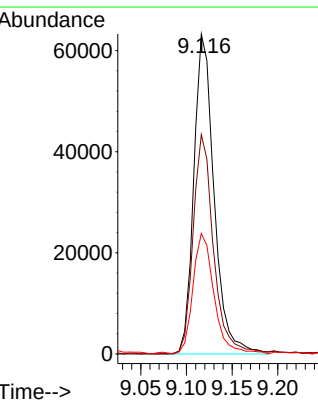
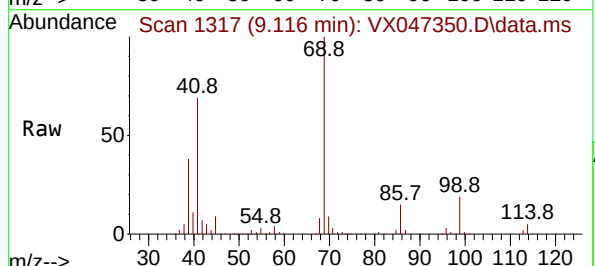
Tgt Ion: 69 Resp: 97675

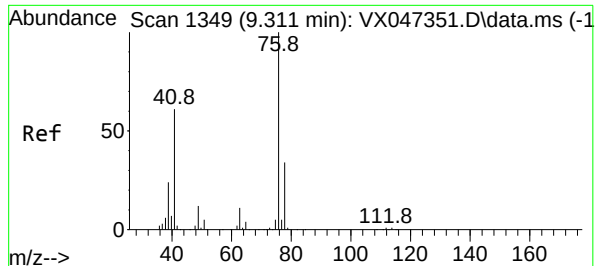
Ion Ratio Lower Upper

69 100

41 68.9 55.3 82.9

39 39.0 30.2 45.2





#57

1,3-Dichloropropane

Concen: 21.910 ug/l

RT: 9.311 min Scan# 11673

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 11673

Ion Ratio Lower Upper

76 100

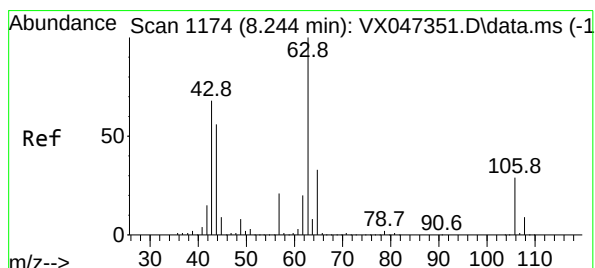
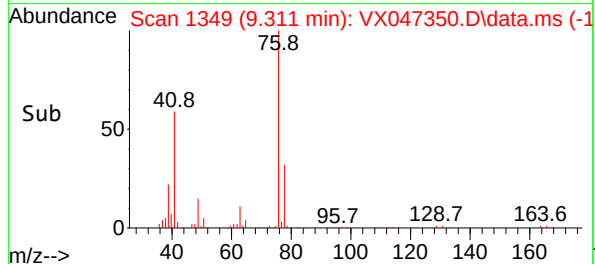
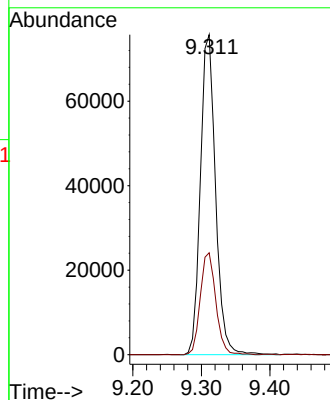
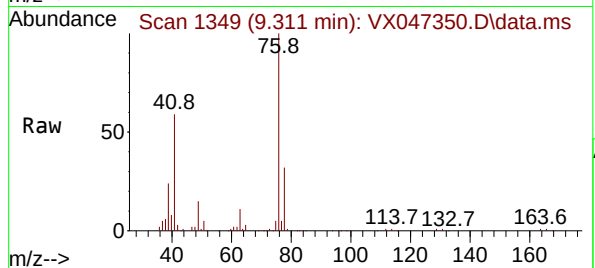
78 32.6 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 78.521 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047350.D

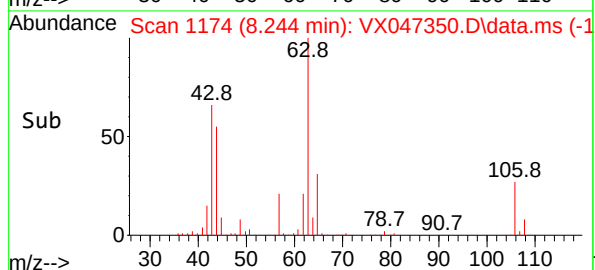
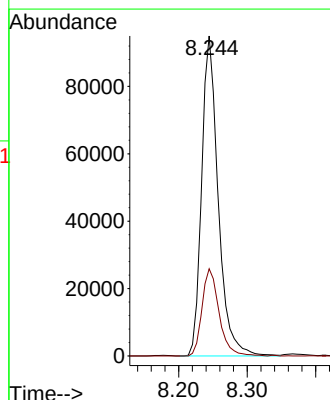
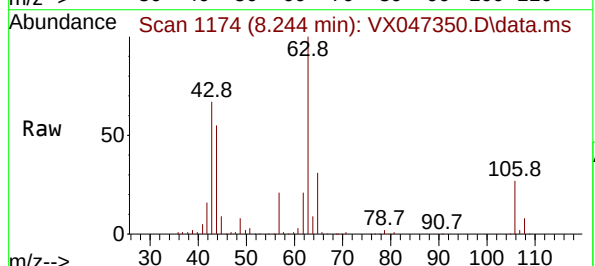
Acq: 15 Aug 2025 10:01

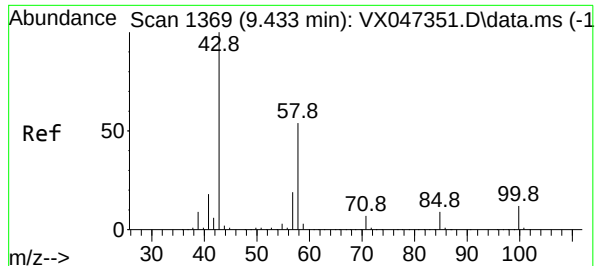
Tgt Ion: 63 Resp: 159793

Ion Ratio Lower Upper

63 100

106 28.0 22.8 34.2





#59

2-Hexanone

Concen: 111.182 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 29388

Ion Ratio Lower Upper

43 100

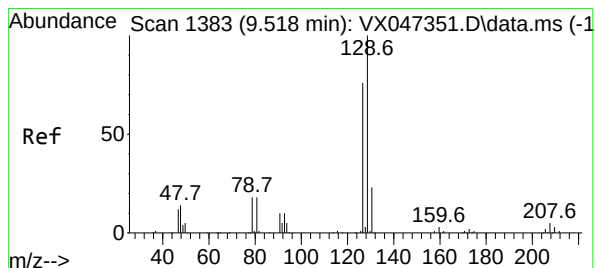
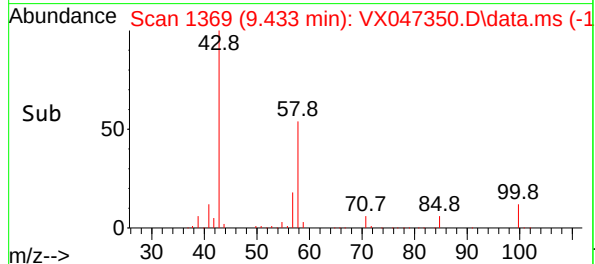
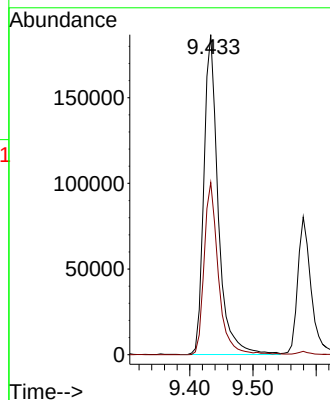
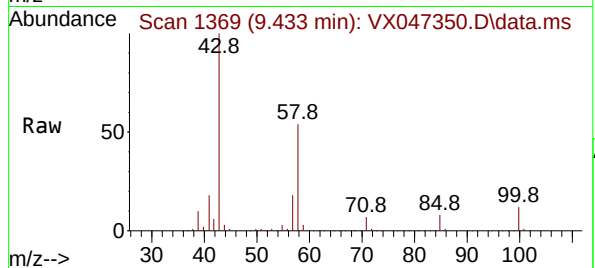
58 53.7 26.9 80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#60

Dibromochloromethane

Concen: 21.561 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047350.D

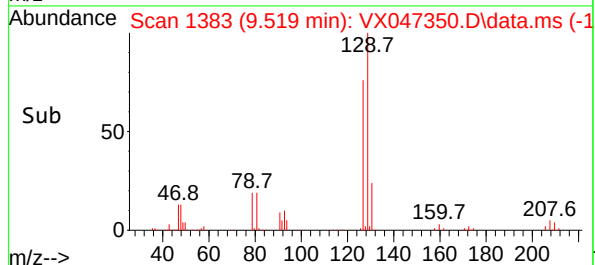
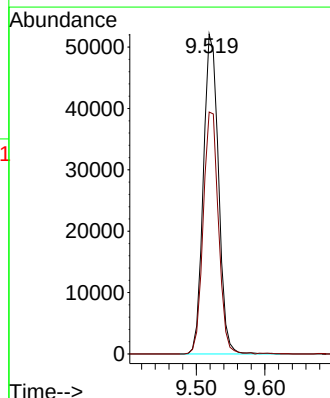
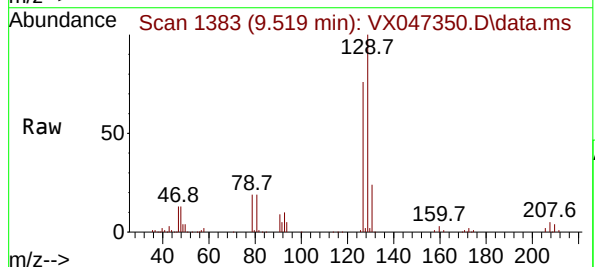
Acq: 15 Aug 2025 10:01

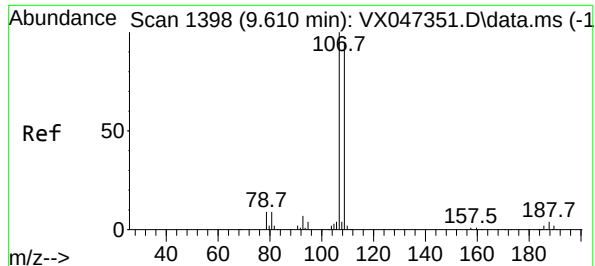
Tgt Ion:129 Resp: 80119

Ion Ratio Lower Upper

129 100

127 76.2 38.9 116.6





#61

1,2-Dibromoethane

Concen: 21.388 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:107 Resp: 6896

Ion Ratio Lower Upper

107 100

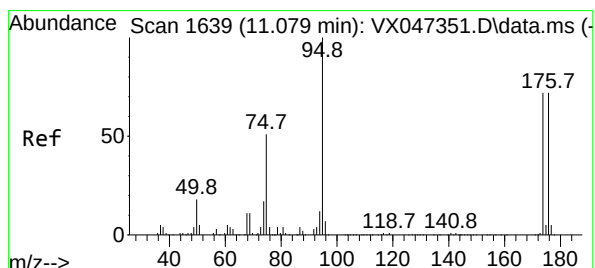
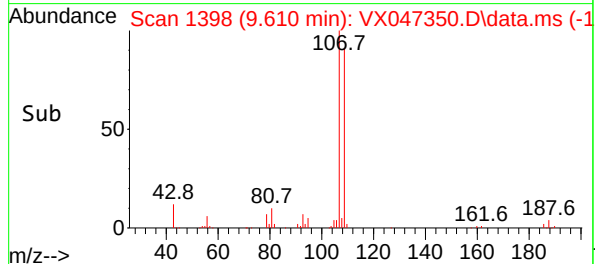
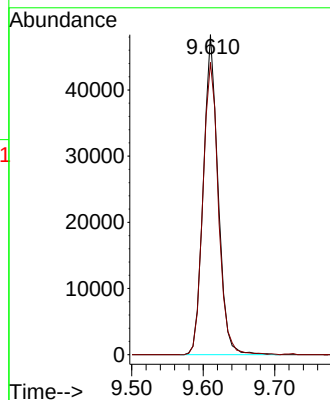
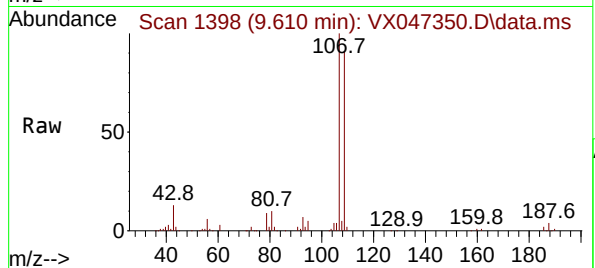
109 96.3 76.2 114.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#62

4-Bromofluorobenzene

Concen: 17.320 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

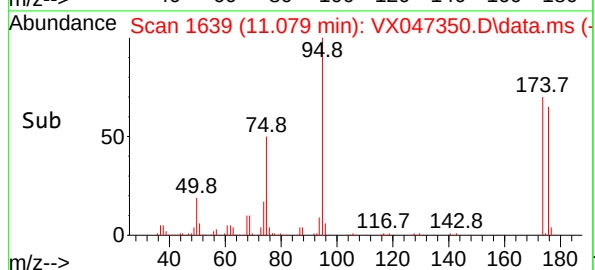
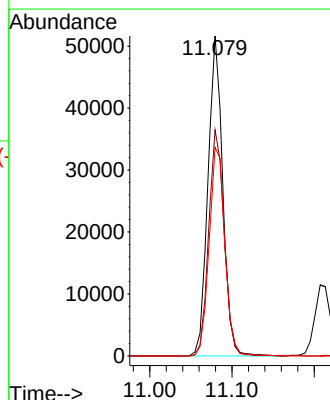
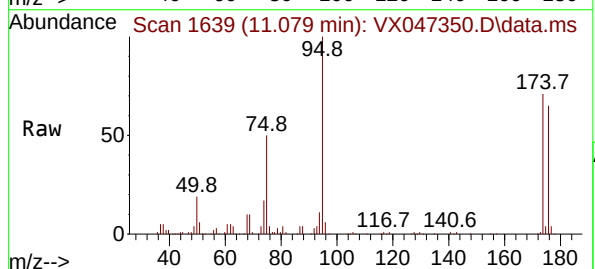
Tgt Ion: 95 Resp: 64433

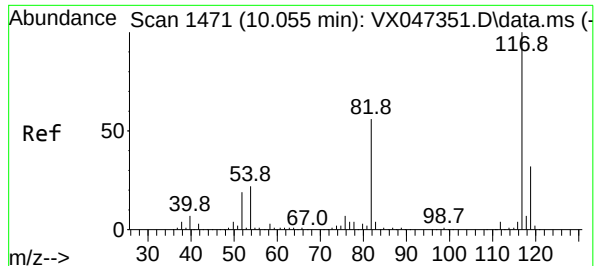
Ion Ratio Lower Upper

95 100

174 73.9 0.0 148.0

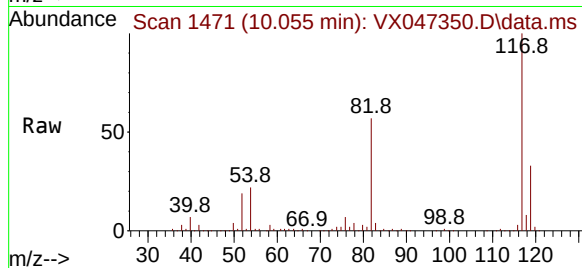
176 69.1 0.0 145.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

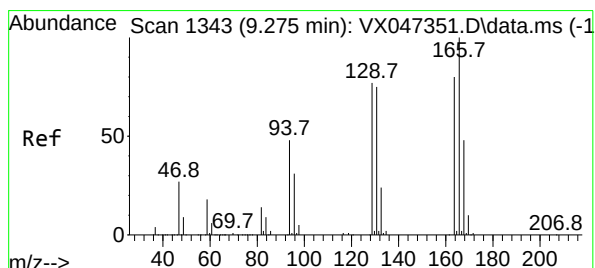
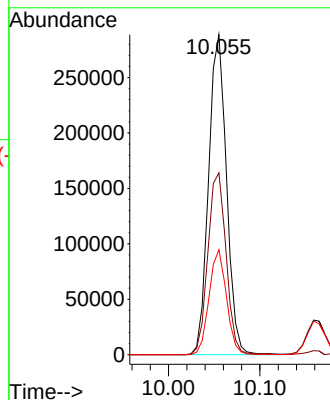
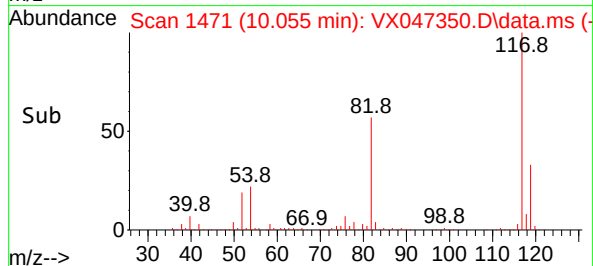
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 392362
Ion Ratio Lower Upper
117 100
82 56.9 45.0 67.4
119 32.8 25.8 38.8

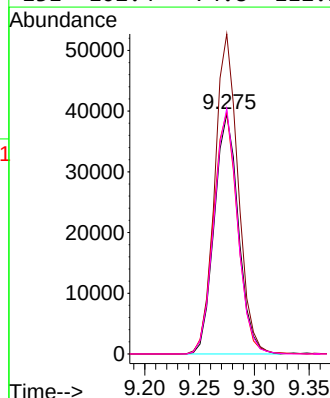
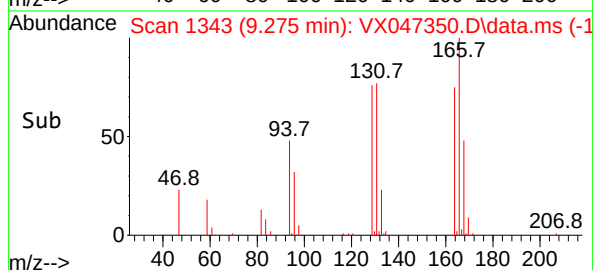
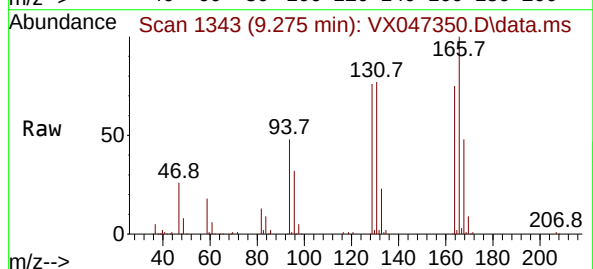
Manual Integrations
APPROVED

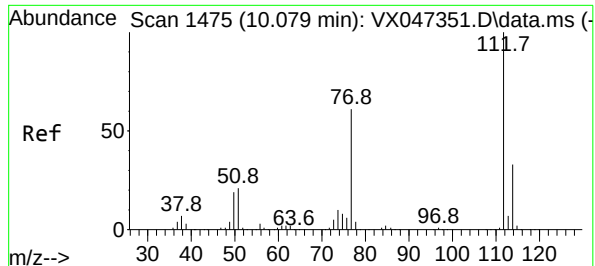
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#64
Tetrachloroethene
Concen: 21.257 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:164 Resp: 60329
Ion Ratio Lower Upper
164 100
166 133.4 100.3 150.5
129 101.0 77.7 116.5
131 102.4 74.8 112.2





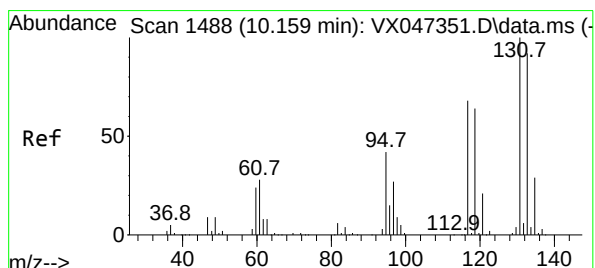
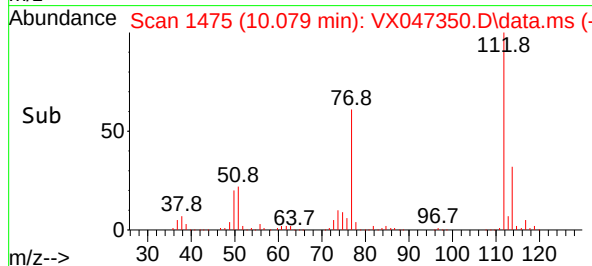
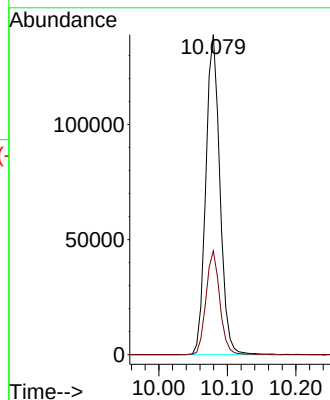
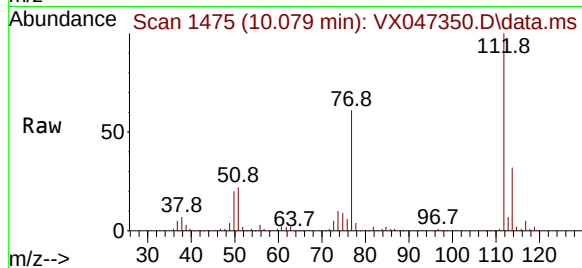
#65
Chlorobenzene
Concen: 21.342 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 198998
Ion Ratio Lower Upper
112 100
114 32.4 26.4 39.6

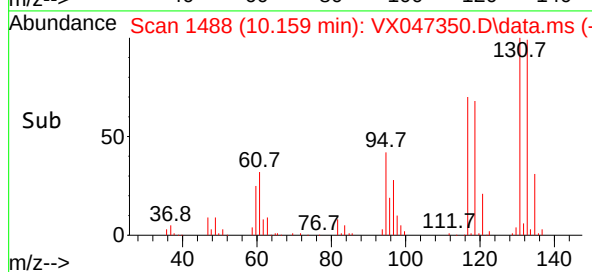
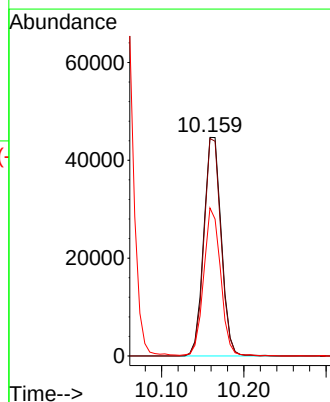
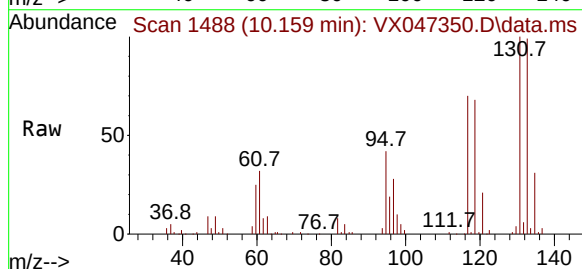
Manual Integrations
APPROVED

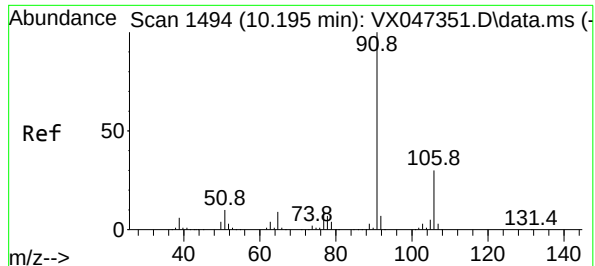
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 21.056 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:131 Resp: 66366
Ion Ratio Lower Upper
131 100
133 96.5 47.6 142.9
119 65.4 32.3 96.8





#67

Ethyl Benzene

Concen: 21.675 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 347834

Ion Ratio Lower Upper

91 100

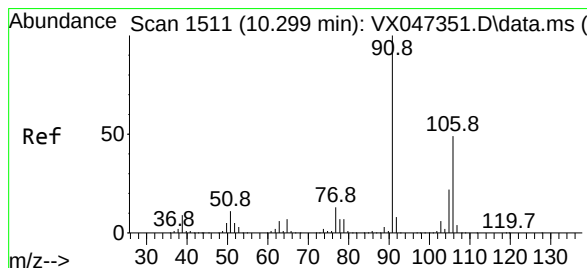
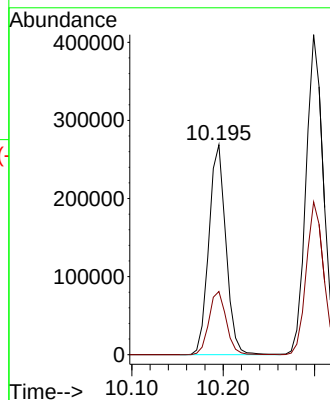
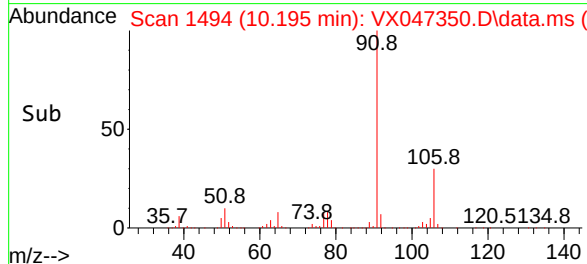
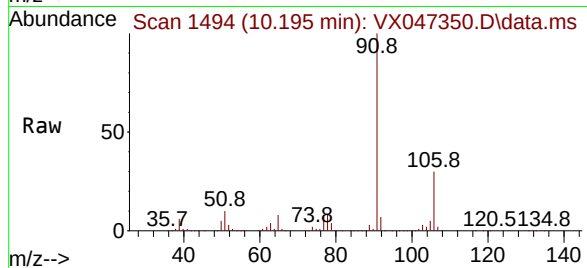
106 30.1 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#68

m/p-Xylenes

Concen: 43.608 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX047350.D

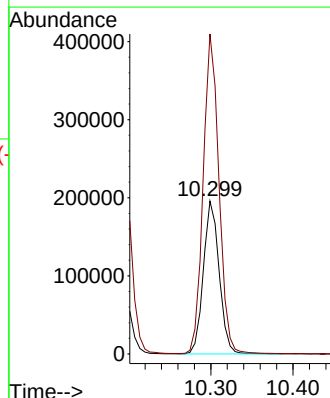
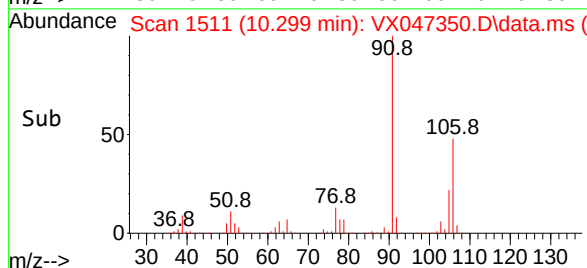
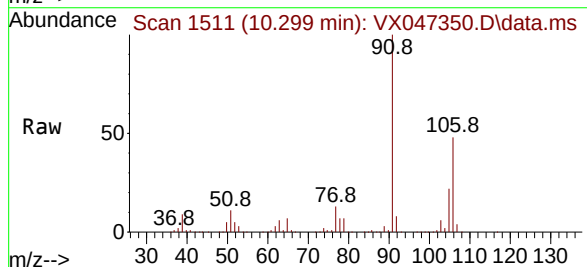
Acq: 15 Aug 2025 10:01

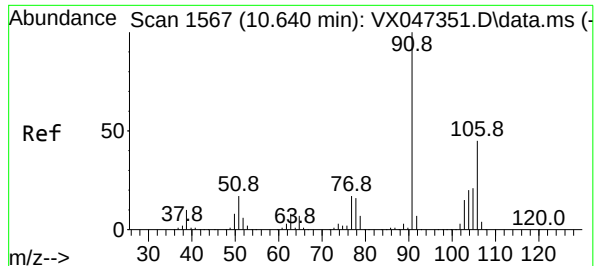
Tgt Ion:106 Resp: 260945

Ion Ratio Lower Upper

106 100

91 209.5 164.7 247.1





#69

o-Xylene

Concen: 21.606 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 12442

Ion Ratio Lower Upper

106 100

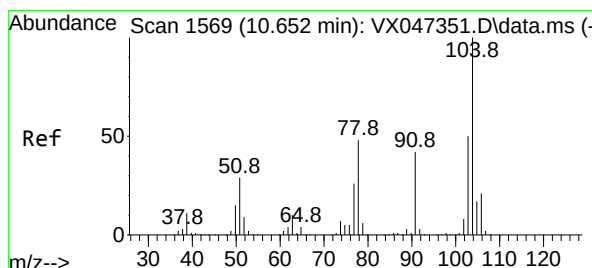
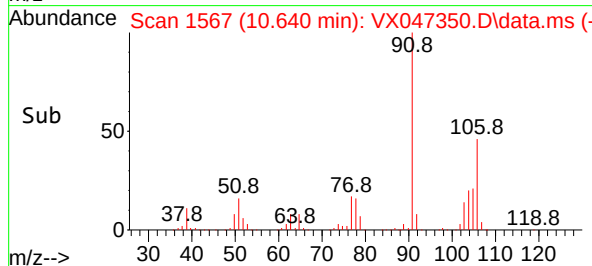
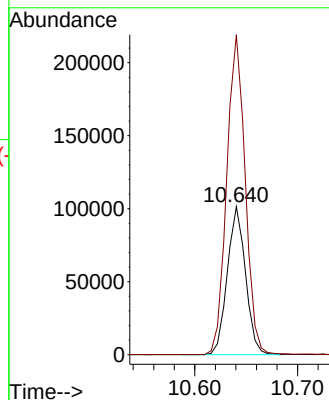
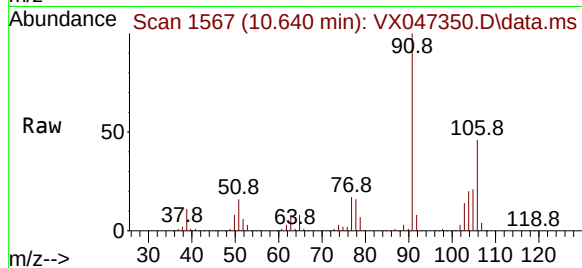
91 219.7 110.6 331.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#70

Styrene

Concen: 22.540 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

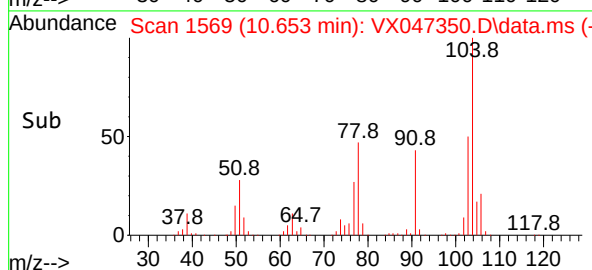
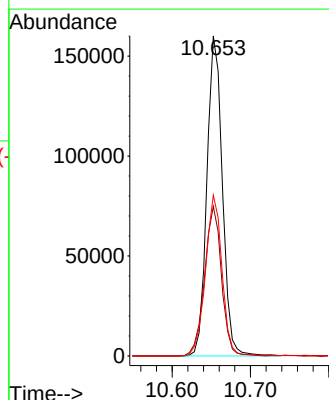
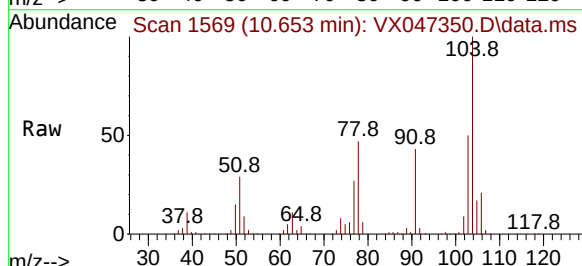
Tgt Ion:104 Resp: 219310

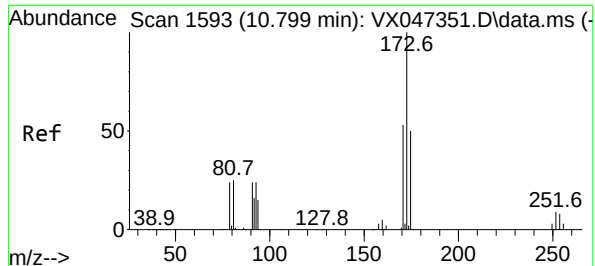
Ion Ratio Lower Upper

104 100

78 51.4 41.8 62.8

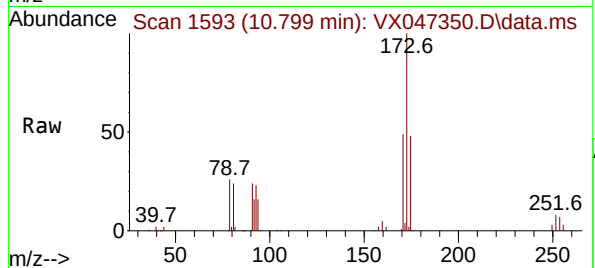
103 53.6 43.6 65.4





#71
Bromoform
Concen: 21.335 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

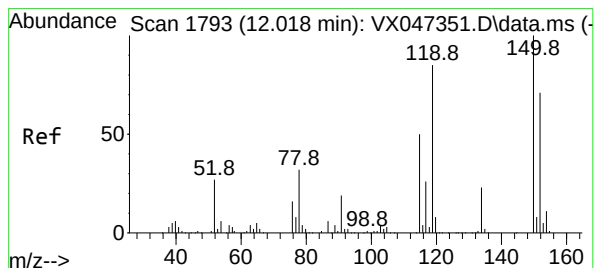
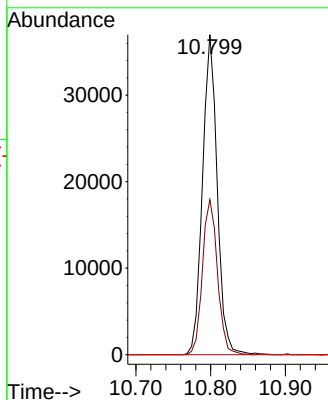
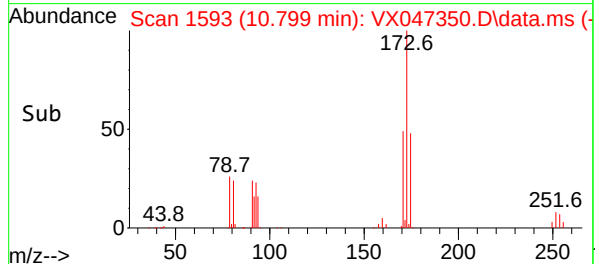
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



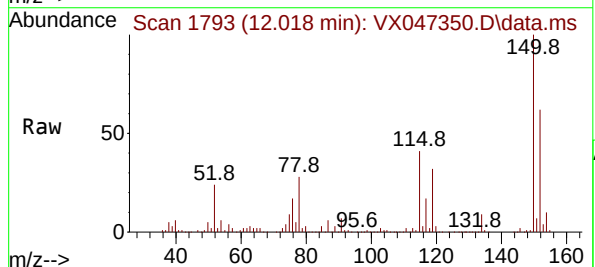
Tgt Ion:173 Resp: 50519
Ion Ratio Lower Upper
173 100
175 49.4 24.4 73.4
254 0.0 0.1 0.1

Manual Integrations
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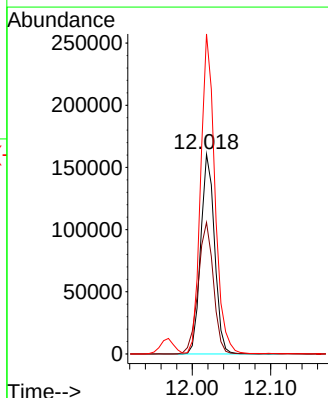
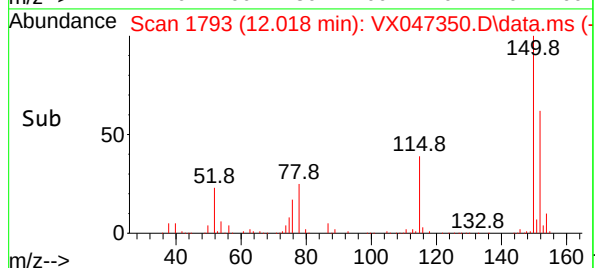
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

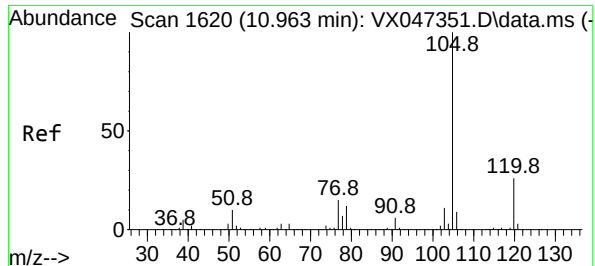


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01



Tgt Ion:152 Resp: 196732
Ion Ratio Lower Upper
152 100
115 72.6 44.6 133.8
150 164.5 0.0 349.8





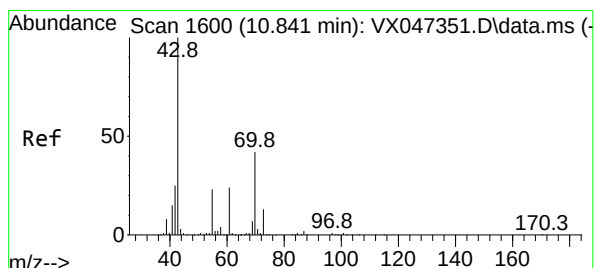
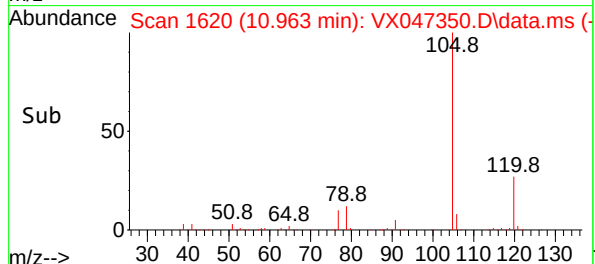
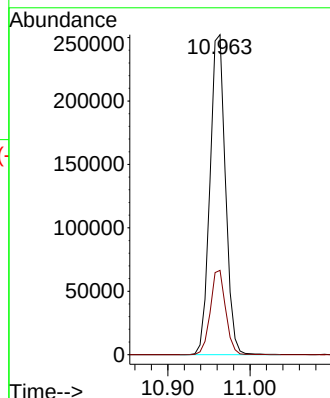
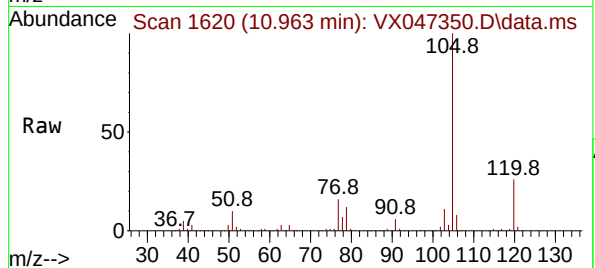
#73
Isopropylbenzene
Concen: 21.425 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 329840
Ion Ratio Lower Upper
105 100
120 26.1 12.9 38.6

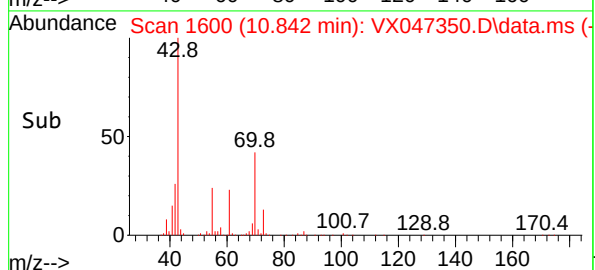
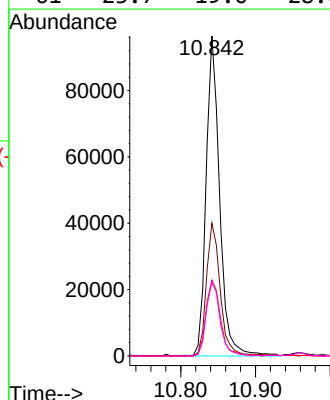
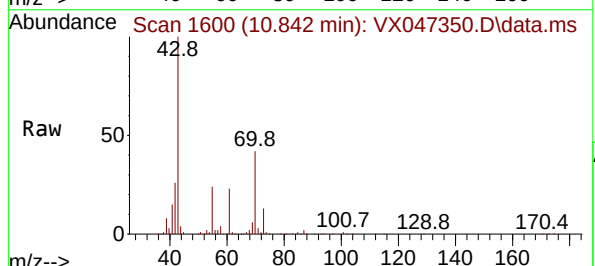
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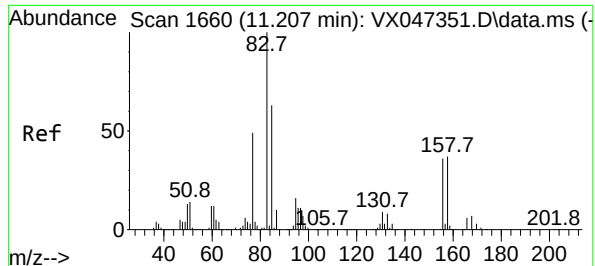
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#74
N-ethyl acetate
Concen: 20.717 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 43 Resp: 121116
Ion Ratio Lower Upper
43 100
70 42.8 33.1 49.7
55 25.4 19.0 28.6
61 23.7 19.0 28.6





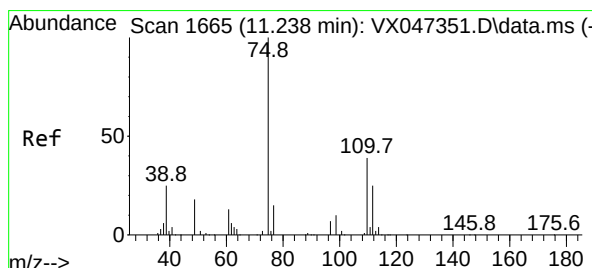
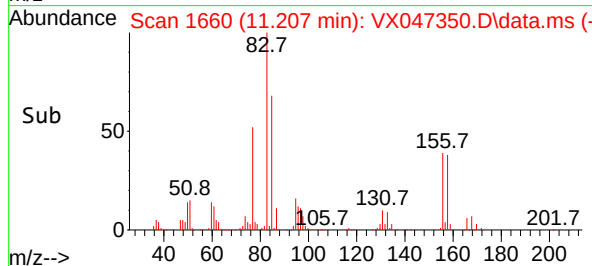
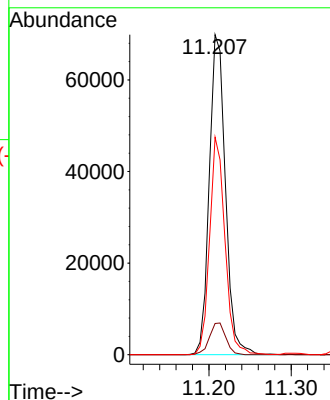
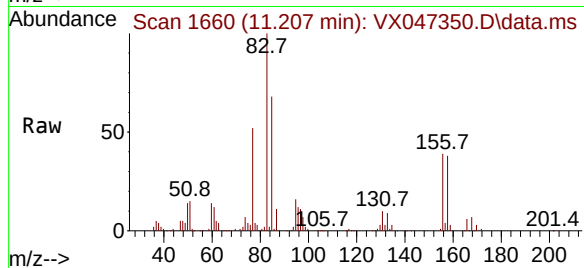
#75
1,1,2,2-Tetrachloroethane
Concen: 21.039 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 95098
Ion Ratio Lower Upper
83 100
131 10.1 5.0 15.0
85 64.8 31.7 95.1

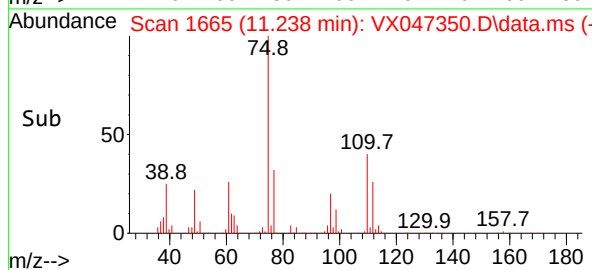
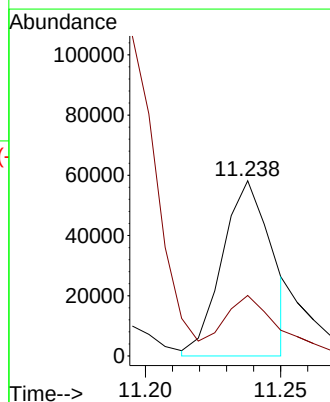
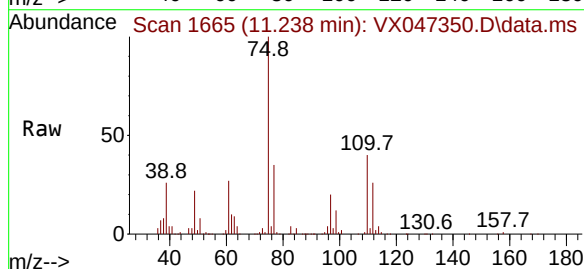
Manual Integrations
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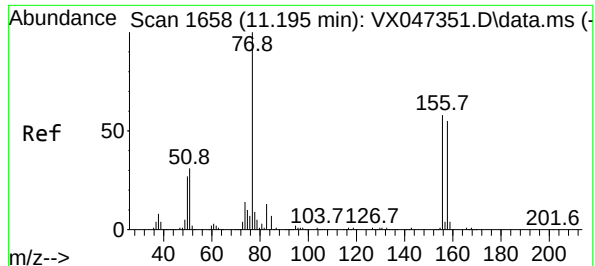
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#76
1,2,3-Trichloropropane
Concen: 20.531 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 75 Resp: 74083
Ion Ratio Lower Upper
75 100
77 40.0 19.4 58.2





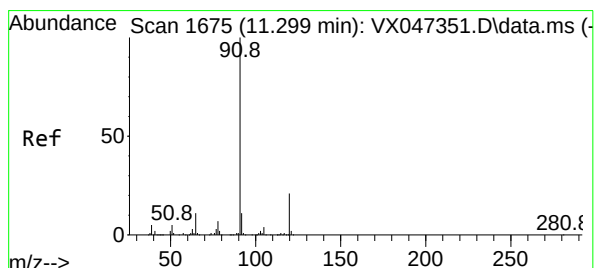
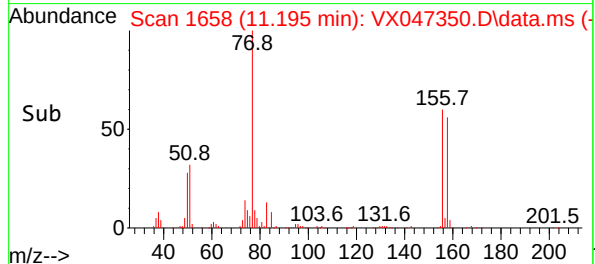
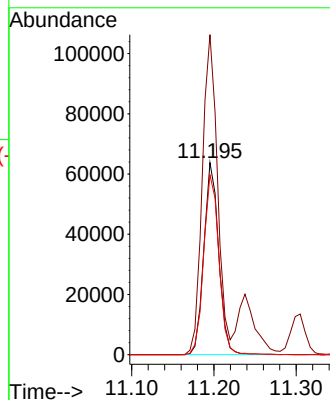
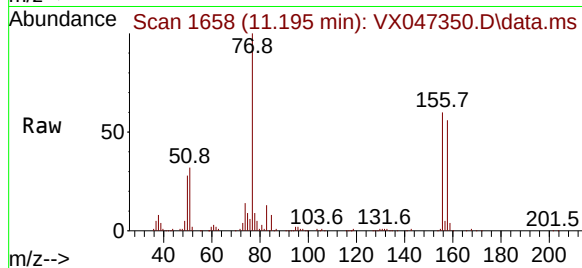
#77
Bromobenzene
Concen: 21.298 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 80060
Ion Ratio Lower Upper
156 100
77 170.5 86.3 258.9
158 96.2 48.0 144.2

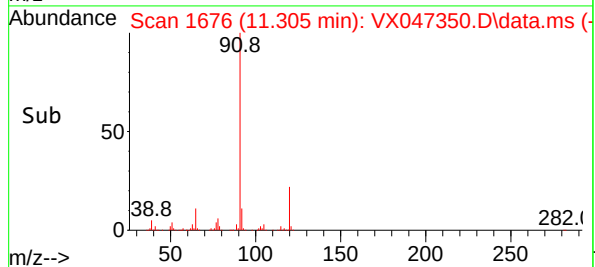
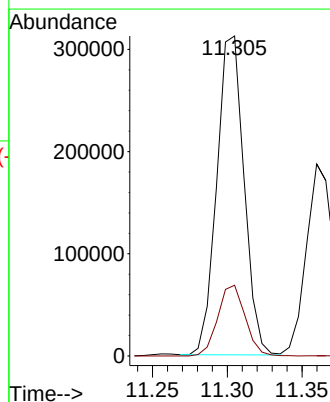
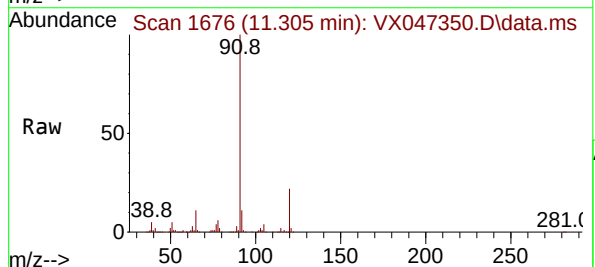
Manual Integrations
APPROVED

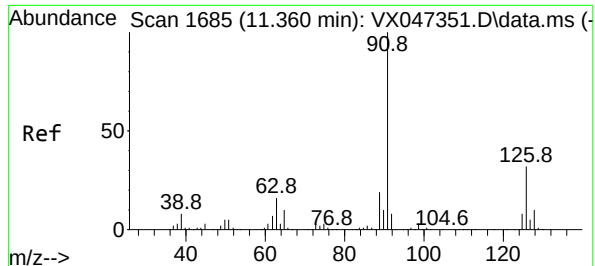
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#78
n-propylbenzene
Concen: 21.531 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 91 Resp: 395888
Ion Ratio Lower Upper
91 100
120 22.3 11.0 33.0





#79

2-Chlorotoluene

Concen: 21.515 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 23913

Ion Ratio Lower Upper

91 100

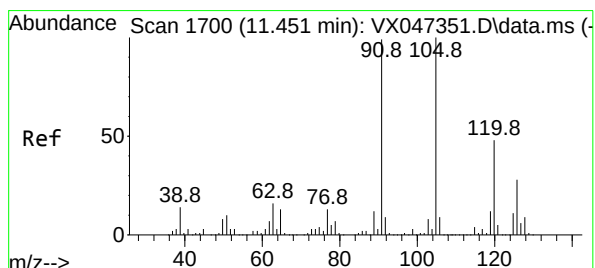
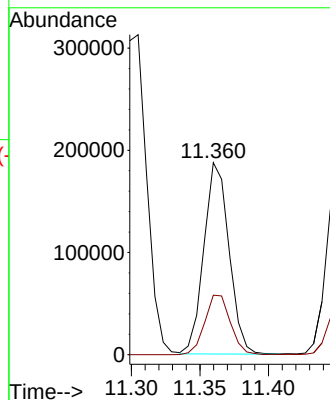
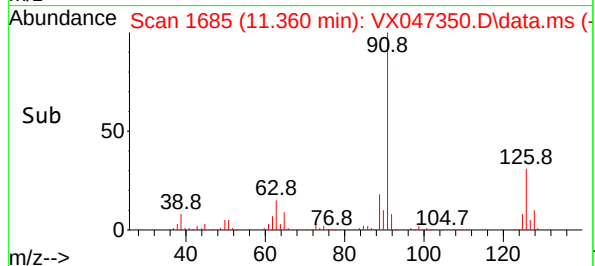
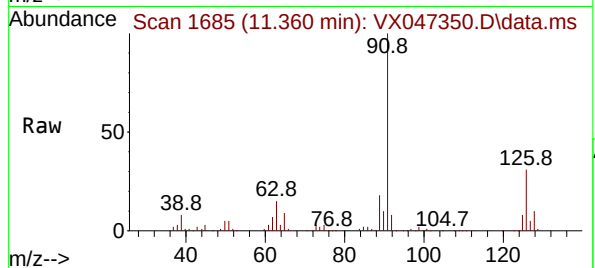
126 31.8 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.513 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX047350.D

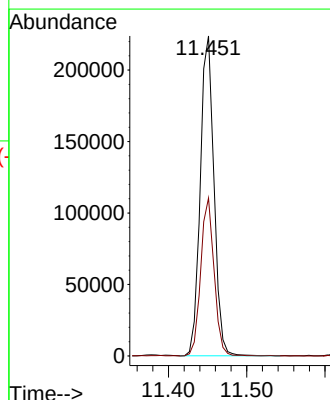
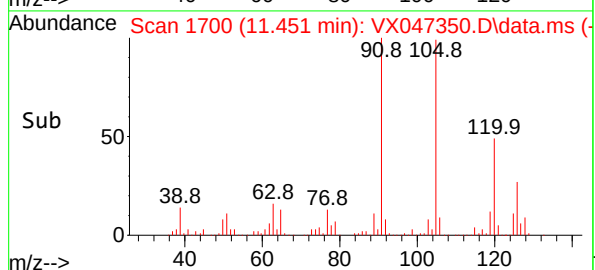
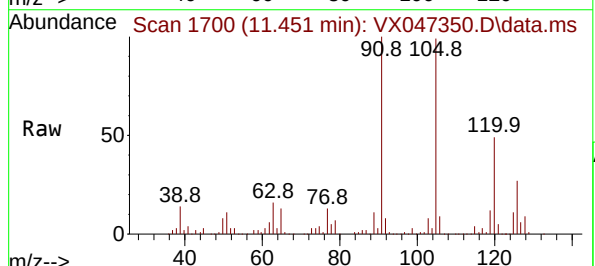
Acq: 15 Aug 2025 10:01

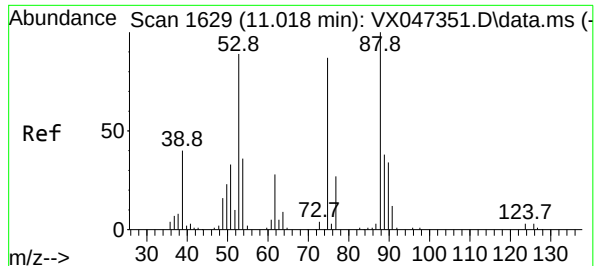
Tgt Ion:105 Resp: 272501

Ion Ratio Lower Upper

105 100

120 48.1 23.9 71.7





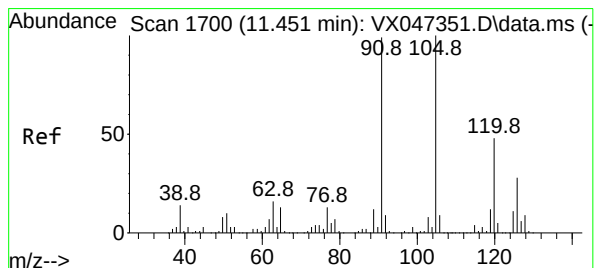
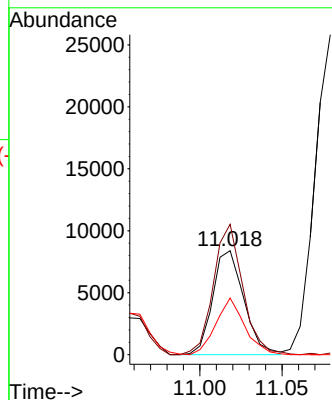
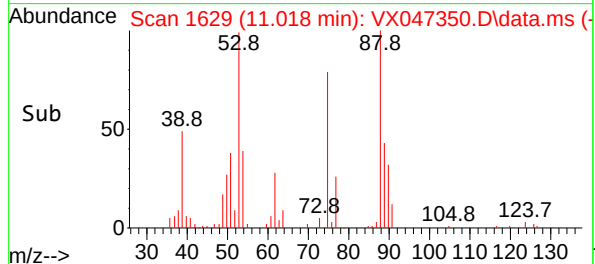
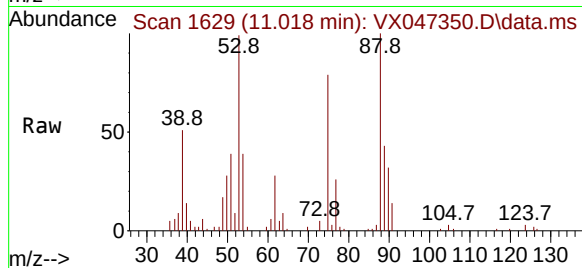
#81
trans-1,4-Dichloro-2-butene
Concen: 19.090 ug/l
RT: 11.018 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:	75	Resp:	1105
Ion	Ratio	Lower	Upper
75	100		
53	118.2	85.2	127.8
89	50.5	36.7	55.1

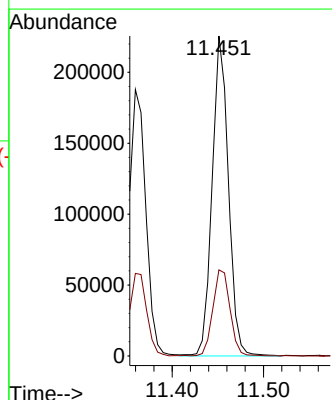
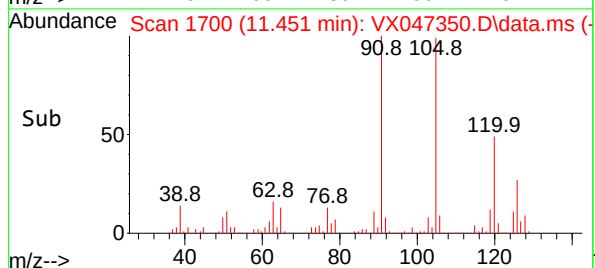
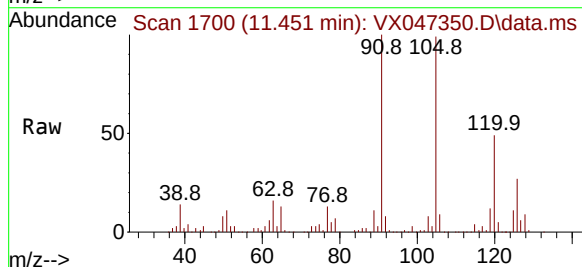
Manual Integrations
APPROVED

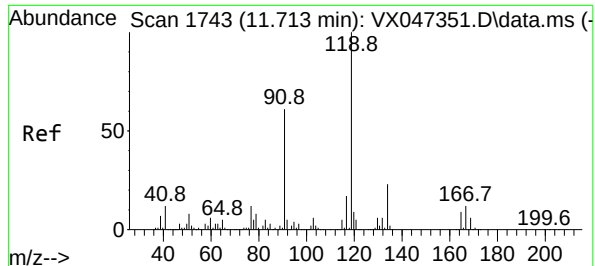
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#82
4-Chlorotoluene
Concen: 21.272 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:	91	Resp:	278705
Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.4	43.0





#83

tert-Butylbenzene

Concen: 21.487 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:119 Resp: 27154

Ion Ratio Lower Upper

119 100

91 59.0 29.1 87.4

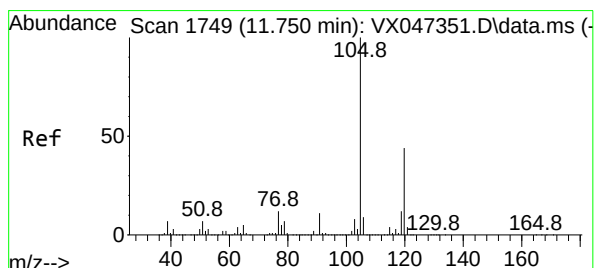
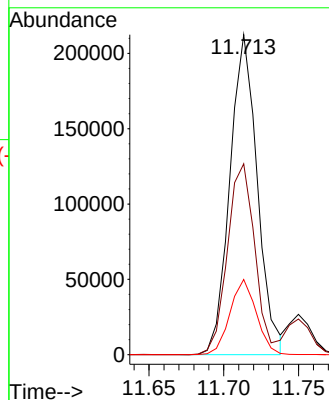
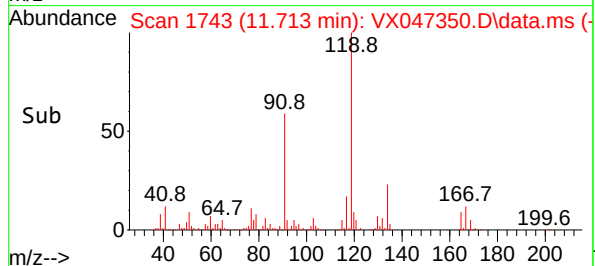
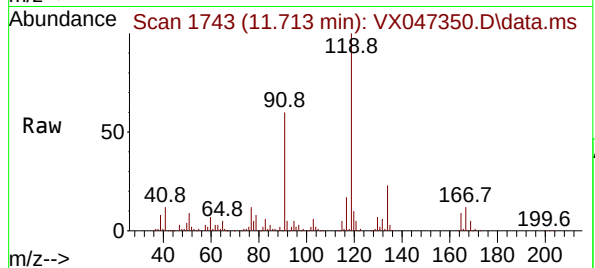
134 22.6 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.876 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047350.D

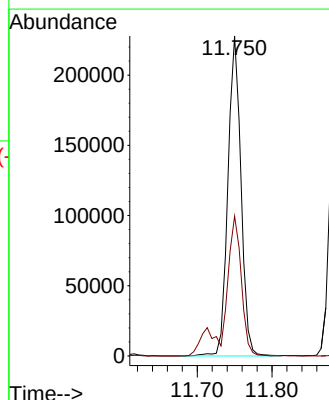
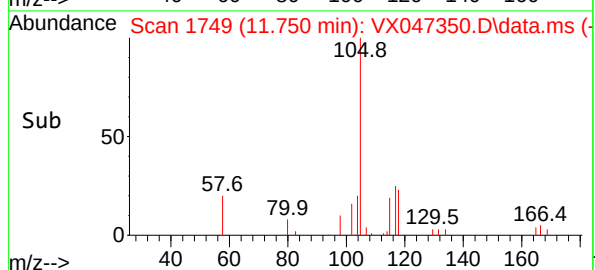
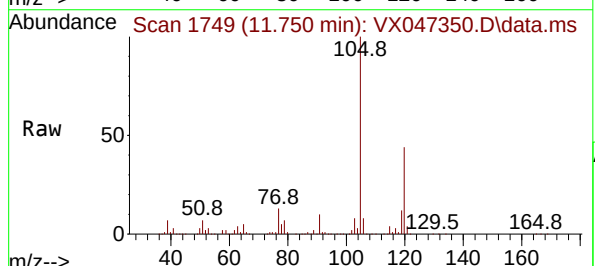
Acq: 15 Aug 2025 10:01

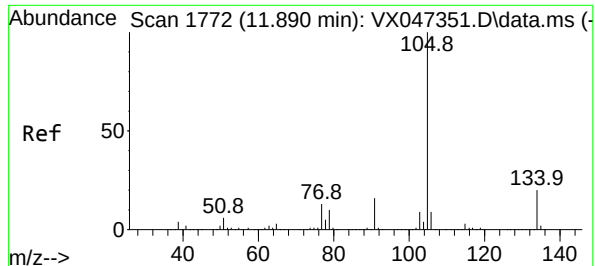
Tgt Ion:105 Resp: 277110

Ion Ratio Lower Upper

105 100

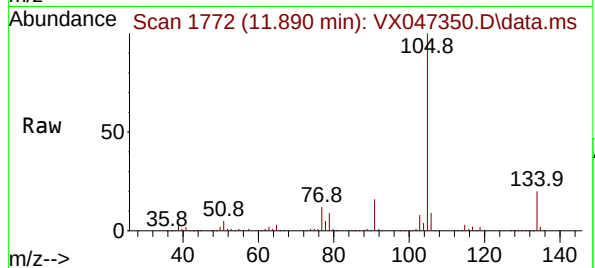
120 43.5 21.9 65.7





#85
sec-Butylbenzene
Concen: 21.719 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

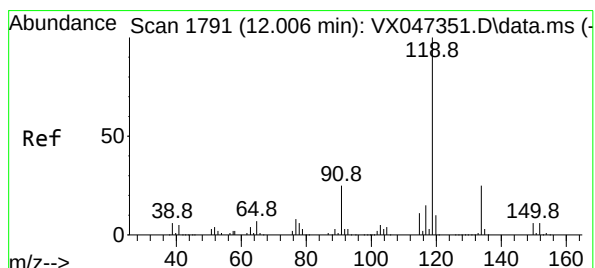
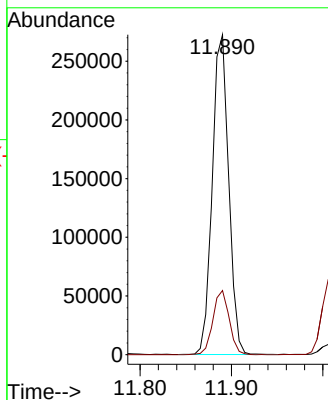
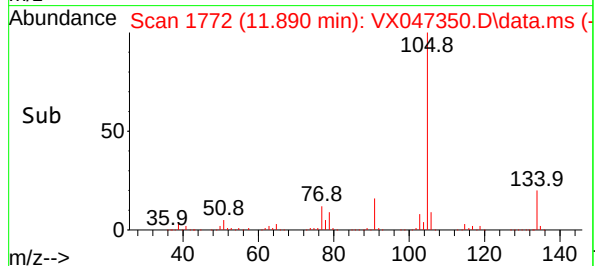
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



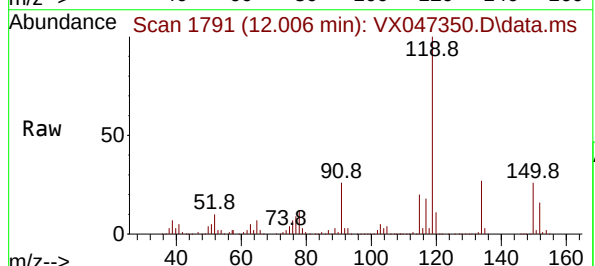
Tgt Ion:105 Resp: 34020
Ion Ratio Lower Upper
105 100
134 20.0 9.8 29.5

Manual Integrations
APPROVED

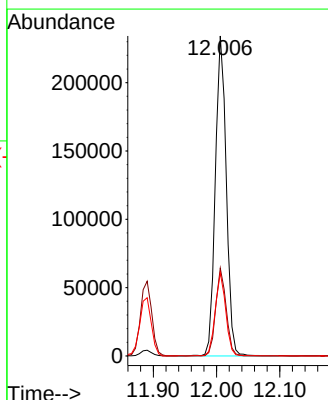
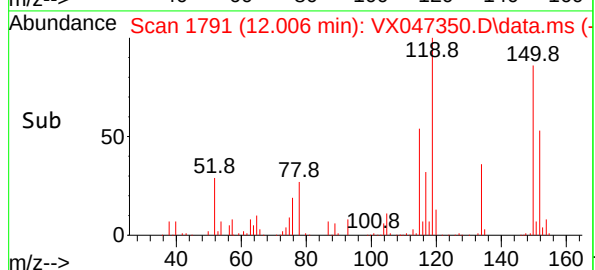
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

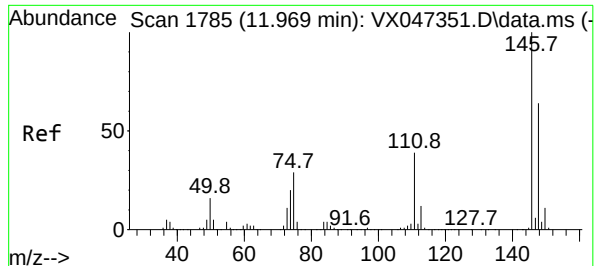


#86
p-Isopropyltoluene
Concen: 21.189 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01



Tgt Ion:119 Resp: 280855
Ion Ratio Lower Upper
119 100
134 26.3 12.8 38.4
91 24.9 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 20.890 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 150028

Ion Ratio Lower Upper

146 100

111 42.6 20.6 61.8

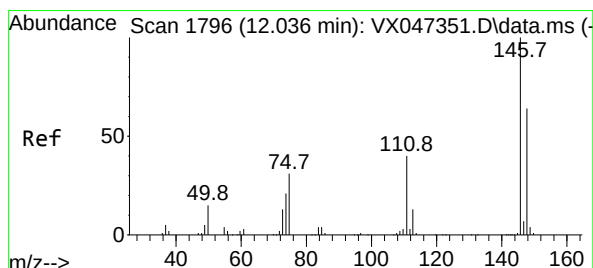
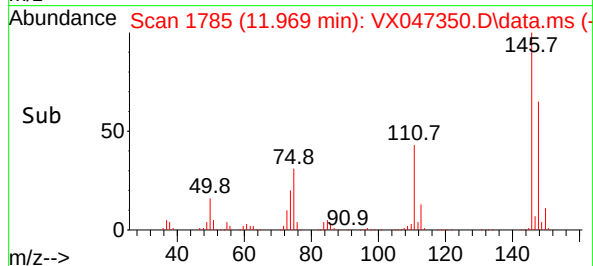
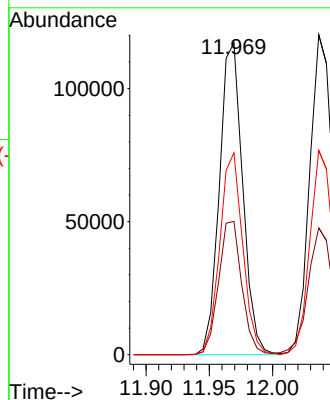
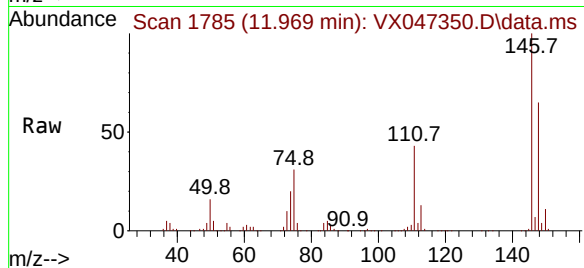
148 63.7 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#88

1,4-Dichlorobenzene

Concen: 20.798 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

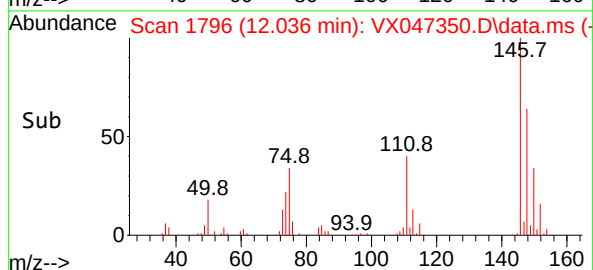
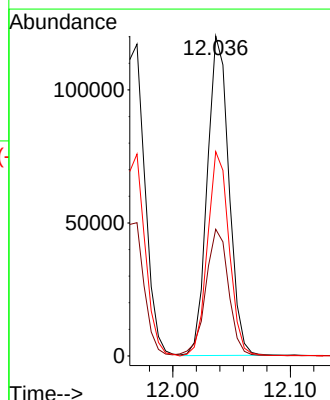
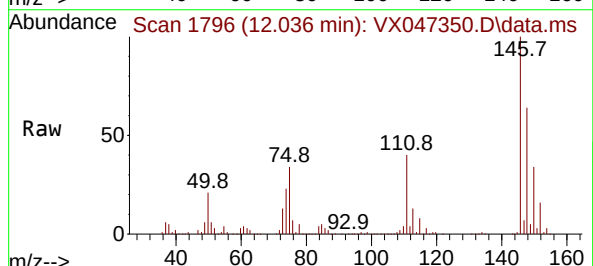
Tgt Ion:146 Resp: 153630

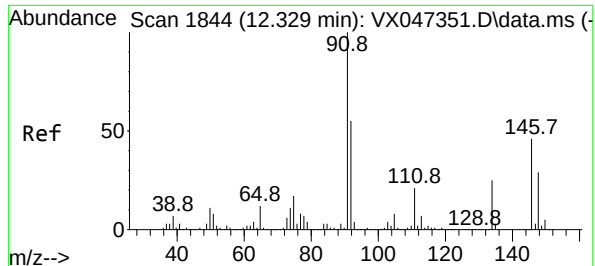
Ion Ratio Lower Upper

146 100

111 41.7 20.4 61.2

148 64.2 31.7 95.1





#89

n-Butylbenzene

Concen: 21.124 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 260428

Ion Ratio Lower Upper

91 100

92 53.1 27.2 81.5

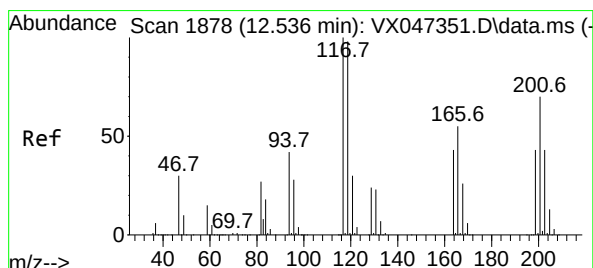
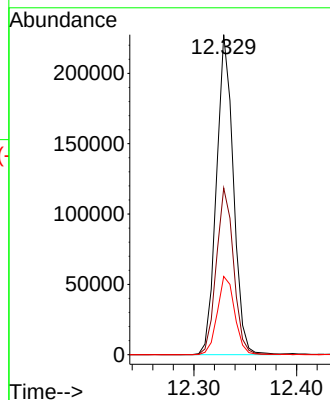
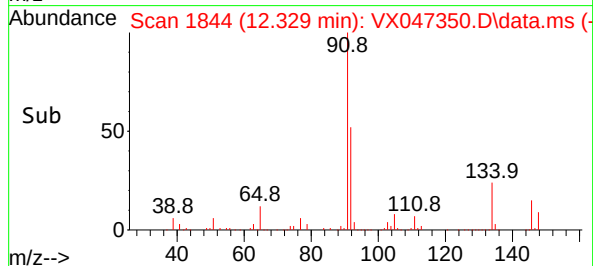
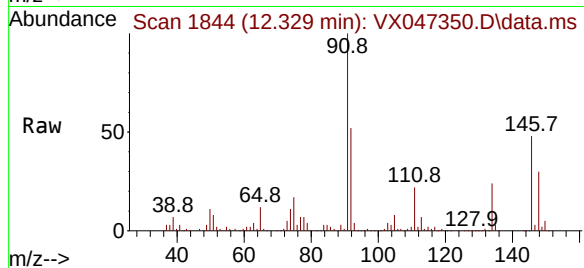
134 25.3 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#90

Hexachloroethane

Concen: 19.754 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047350.D

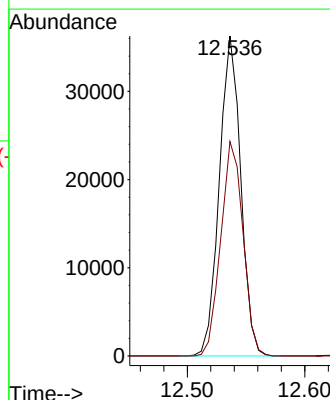
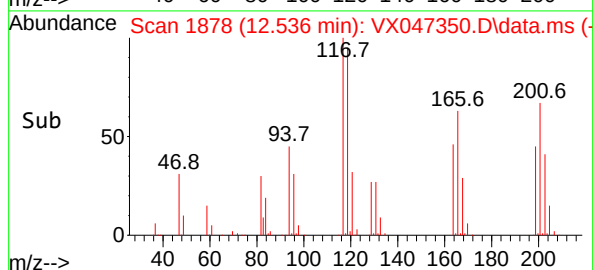
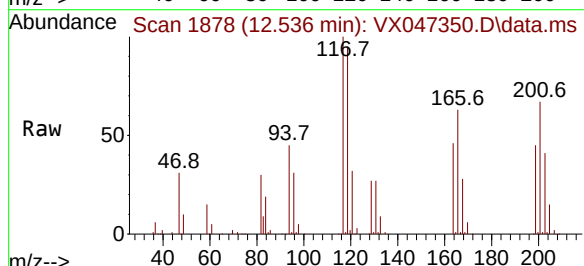
Acq: 15 Aug 2025 10:01

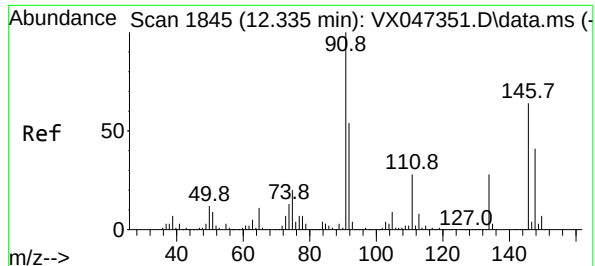
Tgt Ion:117 Resp: 45934

Ion Ratio Lower Upper

117 100

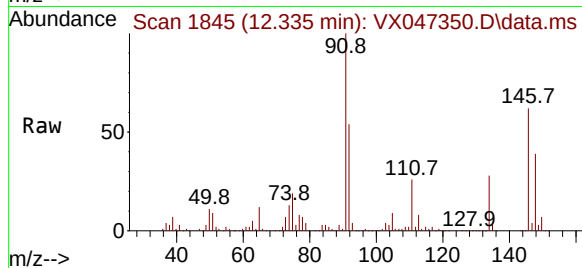
201 69.8 35.1 105.3





#91
1,2-Dichlorobenzene
Concen: 21.363 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

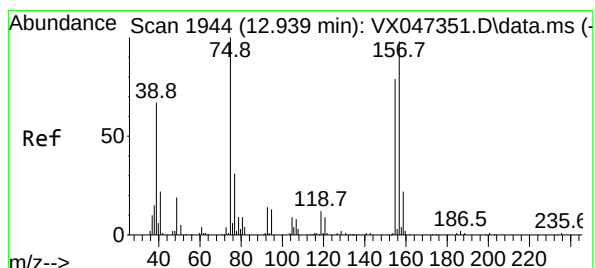
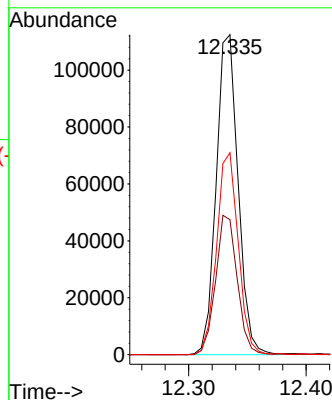
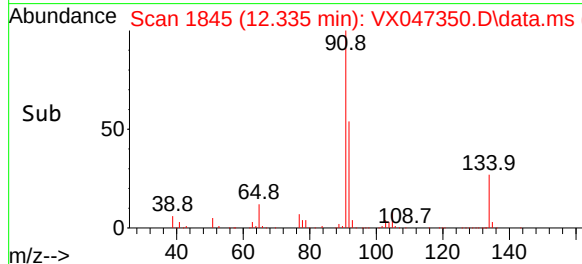
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:146 Resp: 145629
Ion Ratio Lower Upper
146 100
111 43.3 22.1 66.1
148 62.6 31.9 95.5

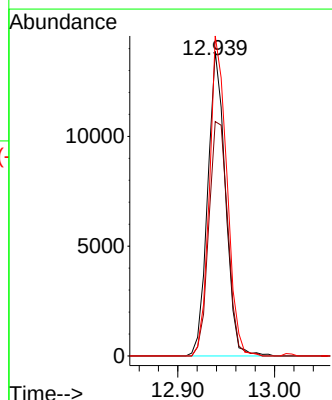
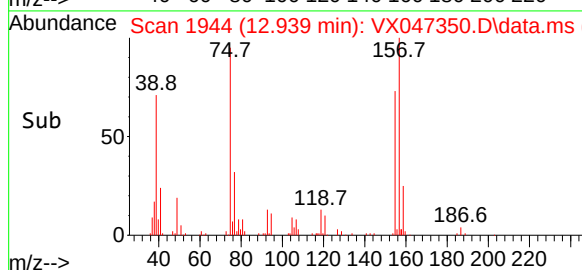
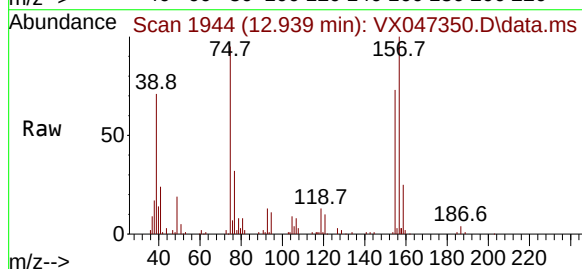
Manual Integrations
APPROVED

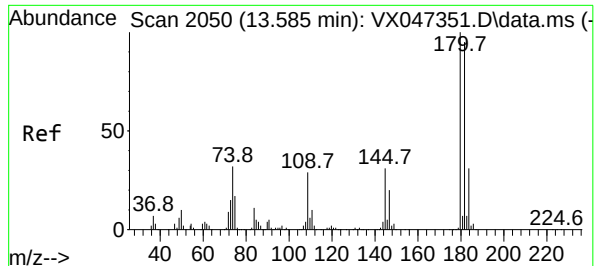
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.246 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion: 75 Resp: 17698
Ion Ratio Lower Upper
75 100
155 82.3 41.3 123.7
157 103.6 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 20.105 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

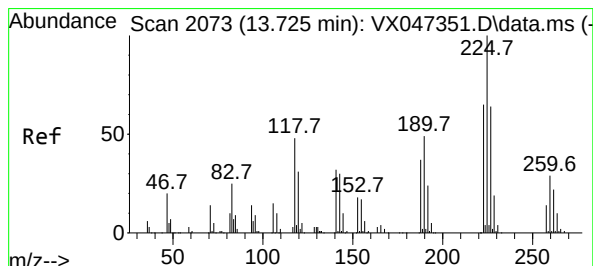
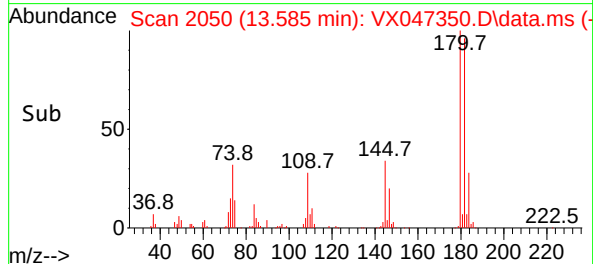
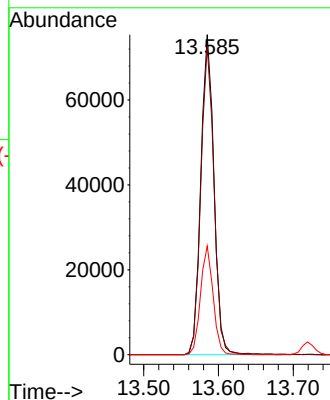
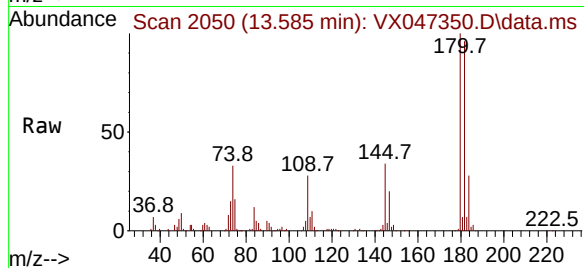
Tgt Ion:	180	Resp:	91878
Ion Ratio	Lower	Upper	
180	100		
182	96.4	48.1	144.4
145	32.6	16.2	48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#94

Hexachlorobutadiene

Concen: 18.738 ug/l

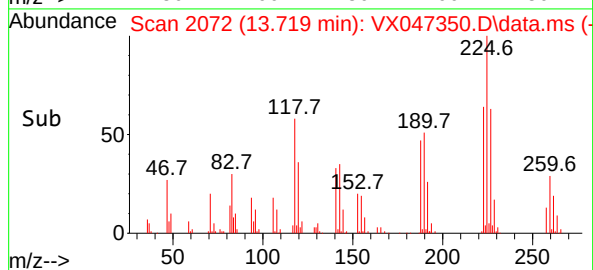
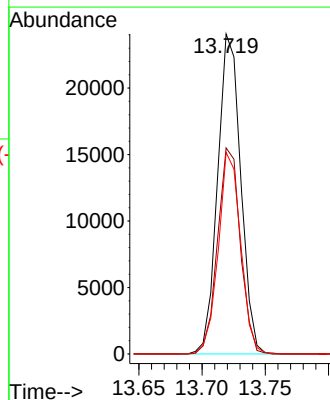
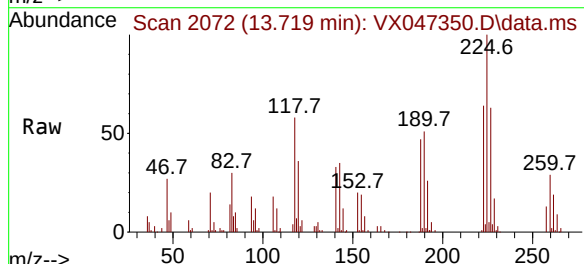
RT: 13.719 min Scan# 2072

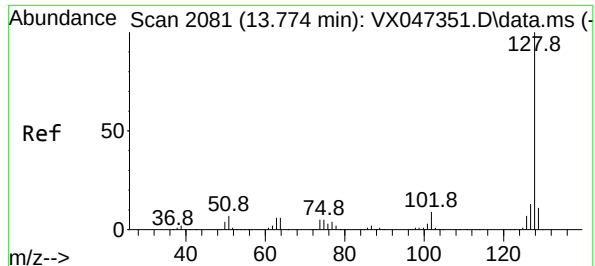
Delta R.T. -0.006 min

Lab File: VX047350.D

Acq: 15 Aug 2025 10:01

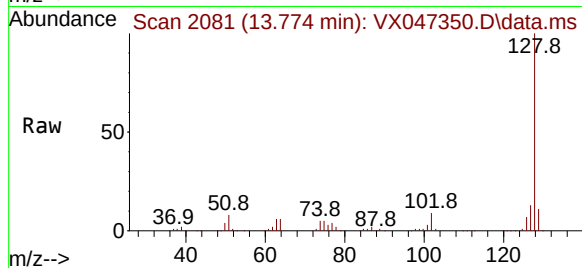
Tgt Ion:	225	Resp:	30481
Ion Ratio	Lower	Upper	
225	100		
223	63.5	32.2	96.6
227	60.9	31.6	95.0





#95
Naphthalene
Concen: 20.495 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

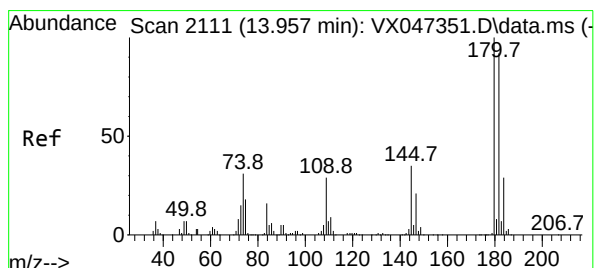
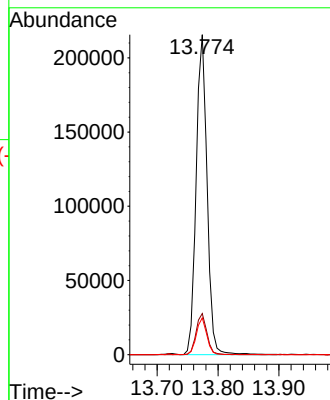
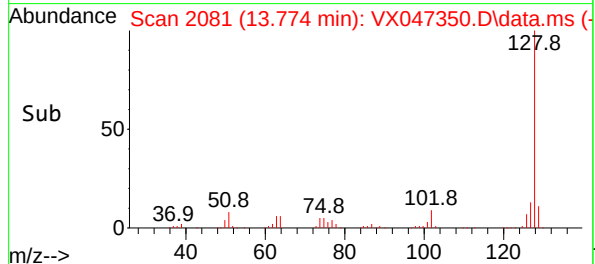
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:128 Resp: 267664
Ion Ratio Lower Upper
128 100
127 12.8 10.1 15.1
129 11.0 8.7 13.1

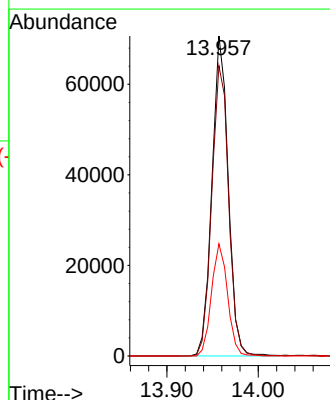
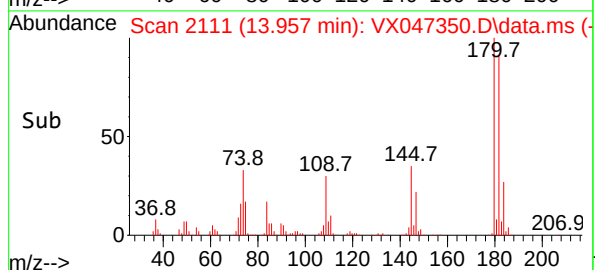
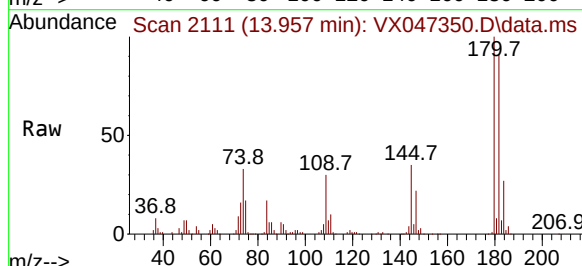
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.261 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047350.D
Acq: 15 Aug 2025 10:01

Tgt Ion:180 Resp: 87275
Ion Ratio Lower Upper
180 100
182 93.8 48.0 144.2
145 34.6 17.4 52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047351.D
 Acq On : 15 Aug 2025 10:22
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Aug 18 02:53:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	238847	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	405572	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	363128	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	177366	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	167238	50.030	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.060%			
35) Dibromofluoromethane	5.397	113	134437	51.074	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.140%			
50) Toluene-d8	8.653	98	475041	50.492	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.980%			
62) 4-Bromofluorobenzene	11.079	95	173764	50.050	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.100%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	174629	57.354	ug/l	100
3) Chloromethane	1.313	50	148962	54.385	ug/l	100
4) Vinyl Chloride	1.392	62	191163	55.604	ug/l	100
5) Bromomethane	1.630	94	80221	57.770	ug/l	100
6) Chloroethane	1.709	64	110475	52.521	ug/l	100
7) Trichlorofluoromethane	1.904	101	283655	55.781	ug/l	100
8) Diethyl Ether	2.148	74	99184	55.393	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	166491	56.441	ug/l	100
10) Methyl Iodide	2.471	142	277741	54.943	ug/l	100
11) Tert butyl alcohol	2.959	59	81382	279.856	ug/l	100
12) 1,1-Dichloroethene	2.337	96	166359	55.319	ug/l	100
13) Acrolein	2.251	56	157735	256.954	ug/l	100
14) Allyl chloride	2.678	41	289338	55.394	ug/l	100
15) Acrylonitrile	3.081	53	405784	288.775	ug/l	100
16) Acetone	2.392	43	334538	266.252	ug/l	100
17) Carbon Disulfide	2.532	76	476020	52.455	ug/l	100
18) Methyl Acetate	2.715	43	183721	56.425	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	519477	56.782	ug/l	100
20) Methylene Chloride	2.806	84	180921	54.377	ug/l	100
21) trans-1,2-Dichloroethene	3.105	96	173226	54.272	ug/l	100
22) Diisopropyl ether	3.776	45	587571	56.909	ug/l	100
23) Vinyl Acetate	3.733	43	2436350	287.897	ug/l	100
24) 1,1-Dichloroethane	3.623	63	323982	55.516	ug/l	100
25) 2-Butanone	4.568	43	464136	282.051	ug/l	100
26) 2,2-Dichloropropane	4.495	77	242859	55.137	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	202109	54.366	ug/l	100
28) Bromochloromethane	4.910	49	129079	53.153	ug/l	100
29) Tetrahydrofuran	5.025	42	293474	275.925	ug/l	100
30) Chloroform	5.105	83	326781	54.867	ug/l	100
31) Cyclohexane	5.483	56	288914	53.705	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	285500	55.692	ug/l	100
36) 1,1-Dichloropropene	5.708	75	228086	54.893	ug/l	100
37) Ethyl Acetate	4.721	43	239310	55.477	ug/l	100
38) Carbon Tetrachloride	5.690	117	246368	54.258	ug/l	100
39) Methylcyclohexane	7.391	83	281960	54.402	ug/l	100
40) Benzene	6.050	78	689965	55.477	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047351.D
 Acq On : 15 Aug 2025 10:22
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Aug 18 02:53:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	104680	57.547	ug/l	100
42) 1,2-Dichloroethane	6.098	62	243489	55.271	ug/l	100
43) Isopropyl Acetate	6.348	43	352090	56.817	ug/l	100
44) Trichloroethene	7.135	130	175409	55.081	ug/l	100
45) 1,2-Dichloropropane	7.433	63	170556	54.740	ug/l	100
46) Dibromomethane	7.586	93	122428	54.124	ug/l	100
47) Bromodichloromethane	7.824	83	257393	54.888	ug/l	100
48) Methyl methacrylate	7.696	41	180568	56.136	ug/l	100
49) 1,4-Dioxane	7.677	88	36298	1188.274	ug/l	100
51) 4-Methyl-2-Pentanone	8.573	43	1031709	289.311	ug/l	100
52) Toluene	8.720	92	428577	55.767	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	237021	57.913	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	260352	56.202	ug/l	100
55) 1,1,2-Trichloroethane	9.153	97	160439	54.984	ug/l	100
56) Ethyl methacrylate	9.116	69	250221	58.164	ug/l	100
57) 1,3-Dichloropropane	9.311	76	271755	54.656	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	555513	269.738	ug/l	100
59) 2-Hexanone	9.433	43	703268	285.099	ug/l	100
60) Dibromochloromethane	9.518	129	188384	54.326	ug/l	100
61) 1,2-Dibromoethane	9.610	107	165776	55.095	ug/l	100
64) Tetrachloroethene	9.275	164	144361	54.962	ug/l	100
65) Chlorobenzene	10.079	112	467009	54.119	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	160305	54.954	ug/l	100
67) Ethyl Benzene	10.195	91	826783	55.667	ug/l	100
68) m/p-Xylenes	10.299	106	622895	112.475	ug/l	100
69) o-Xylene	10.640	106	295290	55.407	ug/l	100
70) Styrene	10.652	104	512239	56.883	ug/l	100
71) Bromoform	10.799	173	121692	55.530	ug/l	100
73) Isopropylbenzene	10.963	105	780181	56.210	ug/l	100
74) N-amyl acetate	10.841	43	306720	58.194	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	225063	55.228	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	179785m	55.266	ug/l	
77) Bromobenzene	11.195	156	186832	55.124	ug/l	100
78) n-propylbenzene	11.299	91	918573	55.413	ug/l	100
79) 2-Chlorotoluene	11.360	91	549070	54.793	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	636323	55.720	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	35295	47.608	ug/l	100
82) 4-Chlorotoluene	11.451	91	643830	54.505	ug/l	100
83) tert-Butylbenzene	11.713	119	641951	56.344	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	646548	56.614	ug/l	100
85) sec-Butylbenzene	11.890	105	783341	55.470	ug/l	100
86) p-Isopropyltoluene	12.006	119	660872	55.303	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	351718	54.320	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	352196	52.886	ug/l	100
89) n-Butylbenzene	12.329	91	610840	54.957	ug/l	100
90) Hexachloroethane	12.536	117	115780	55.228	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	330287	53.742	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43861	55.654	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	218820	53.111	ug/l	100
94) Hexachlorobutadiene	13.725	225	71744	48.921	ug/l	100
95) Naphthalene	13.774	128	670303	56.930	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	208179	53.605	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047351.D
Acq On : 15 Aug 2025 10:22
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:53:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 2025
Response via : Initial Calibration

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

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

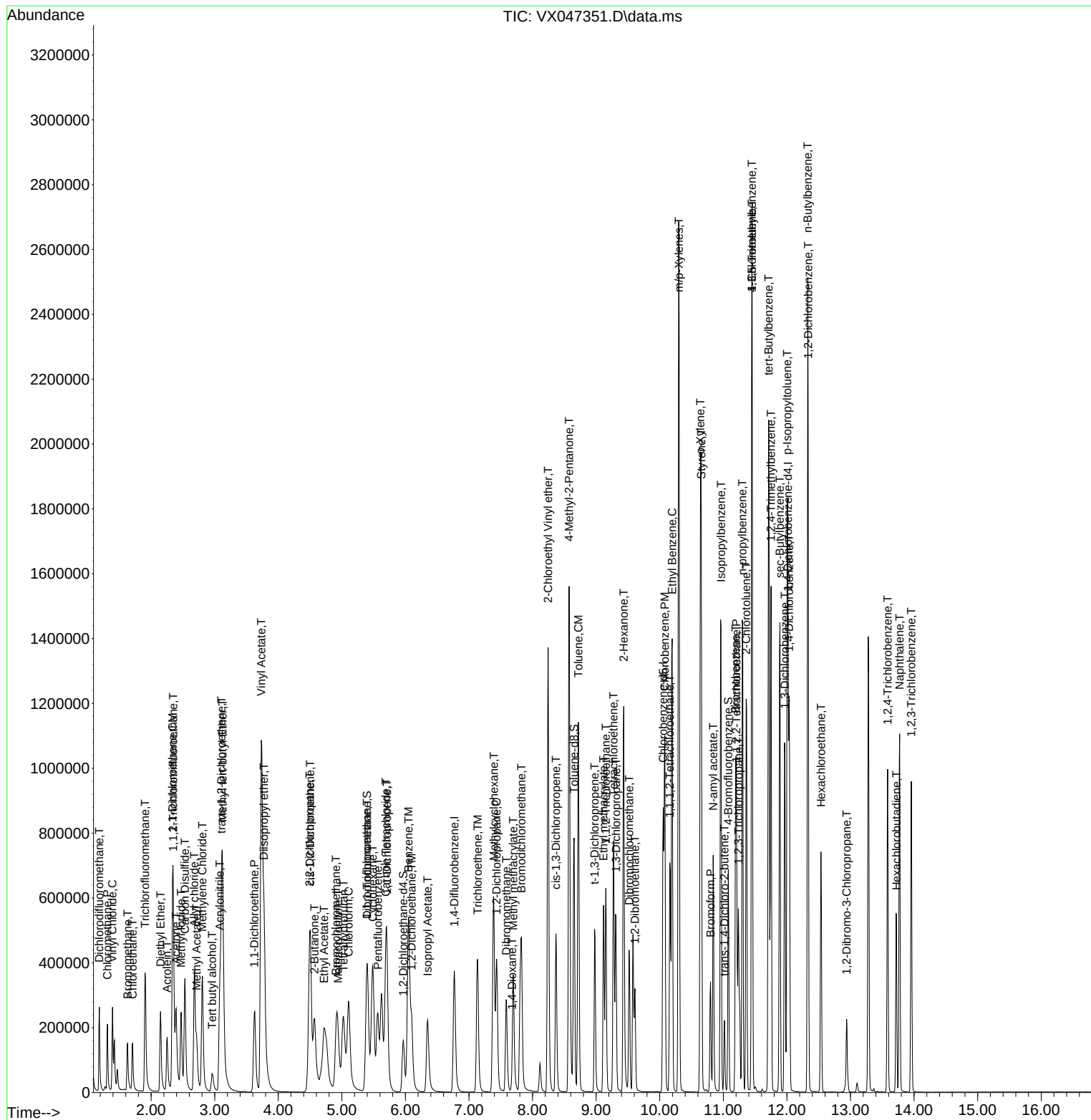
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 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

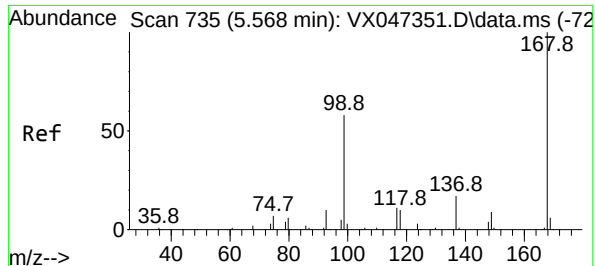
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
 Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:53:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration





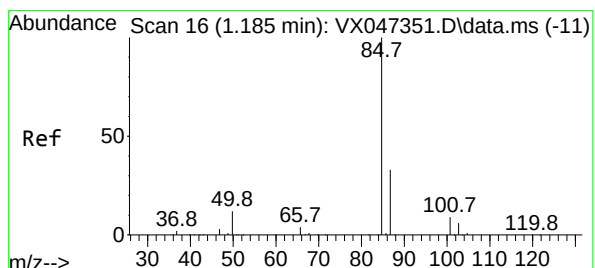
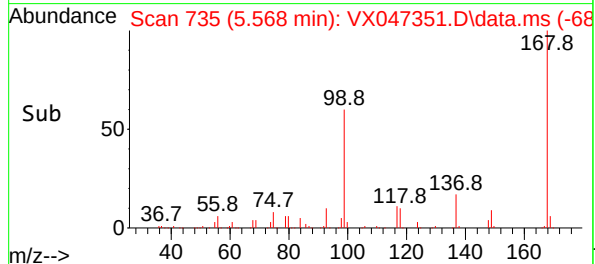
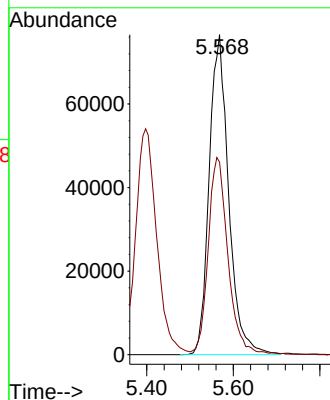
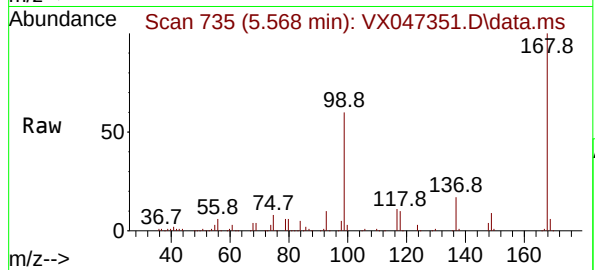
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 23884
Ion Ratio Lower Upper
168 100
99 59.9 47.9 71.9

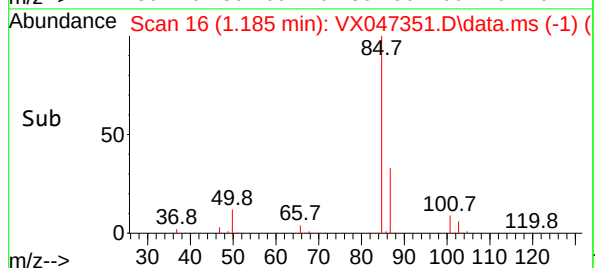
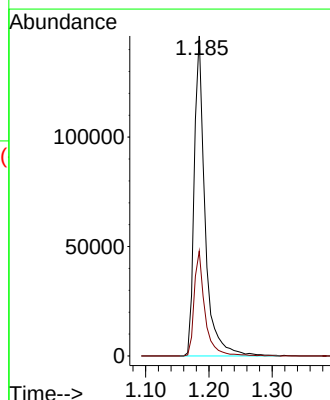
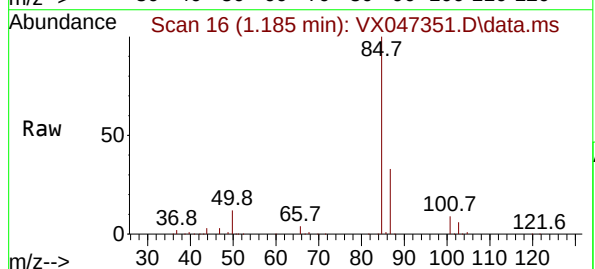
Manual Integrations
APPROVED

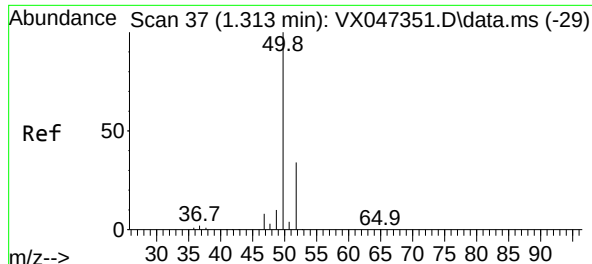
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#2
Dichlorodifluoromethane
Concen: 57.354 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 85 Resp: 174629
Ion Ratio Lower Upper
85 100
87 32.7 16.4 49.1





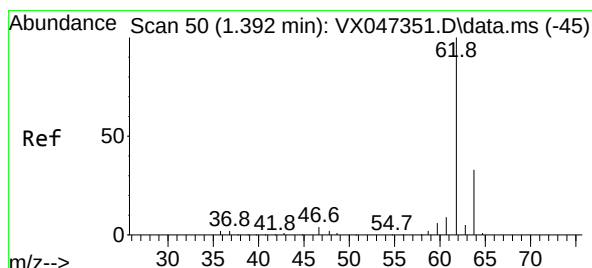
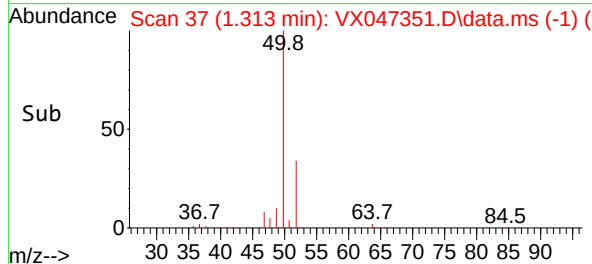
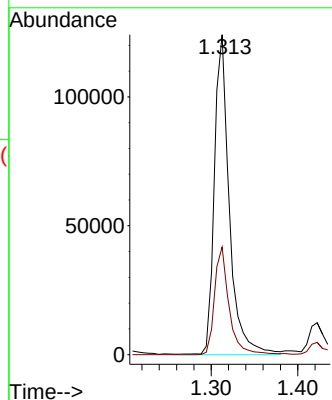
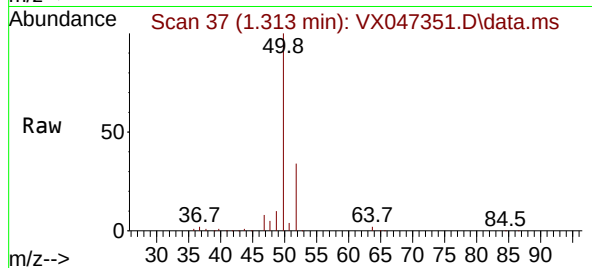
#3
Chloromethane
Concen: 54.385 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 148962
Ion Ratio Lower Upper
50 100
52 33.7 27.0 40.4

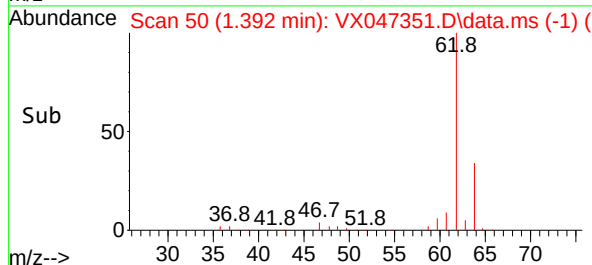
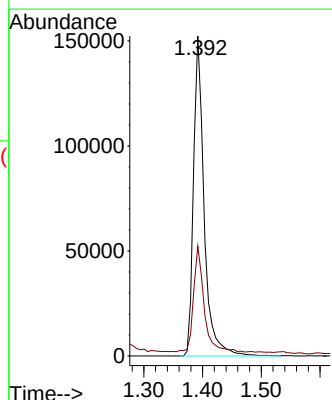
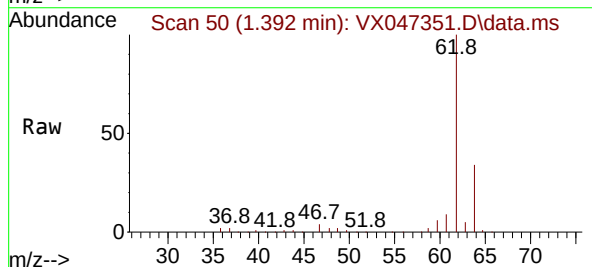
Manual Integrations
APPROVED

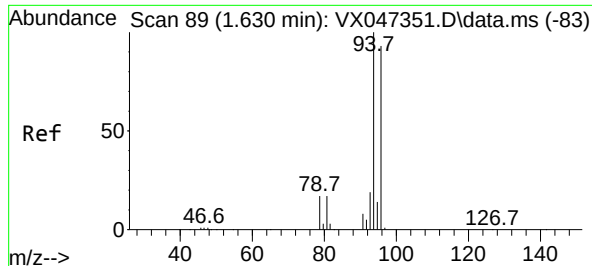
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#4
Vinyl Chloride
Concen: 55.604 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 62 Resp: 191163
Ion Ratio Lower Upper
62 100
64 33.1 26.5 39.7





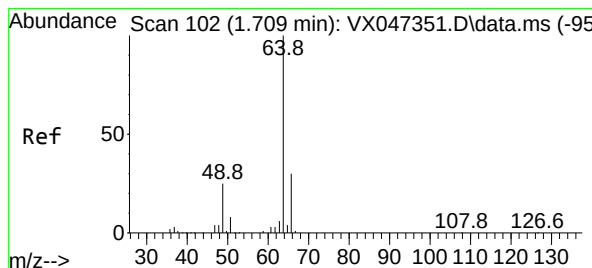
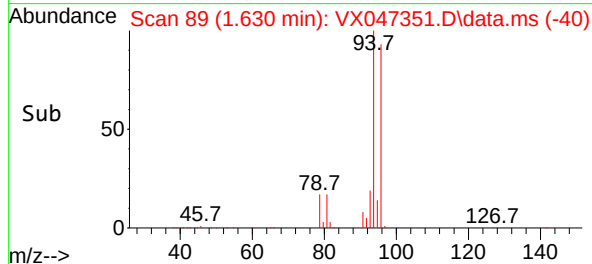
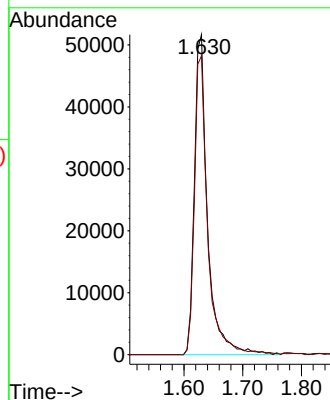
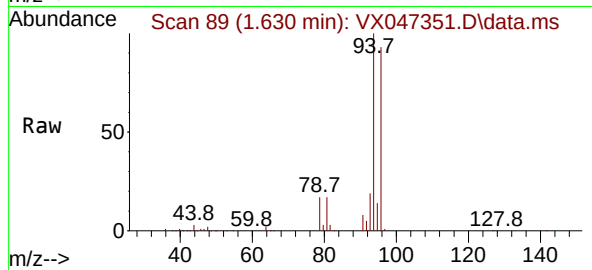
#5
Bromomethane
Concen: 57.770 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 8022
Ion Ratio Lower Upper
94 100
96 93.4 74.7 112.1

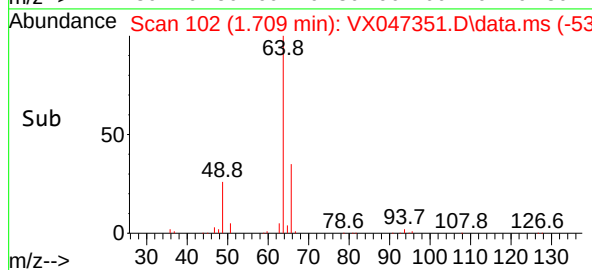
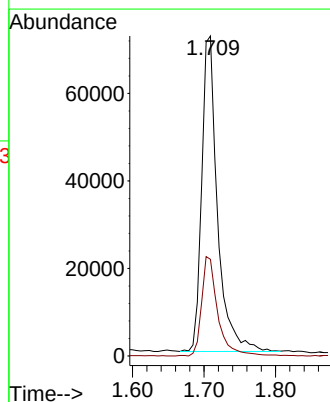
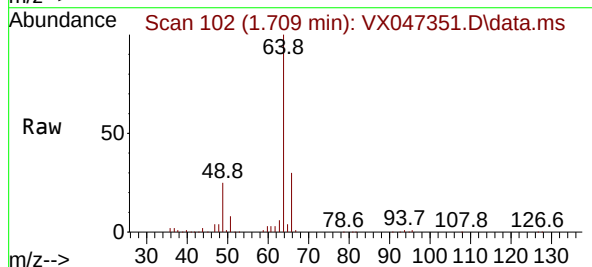
Manual Integrations
APPROVED

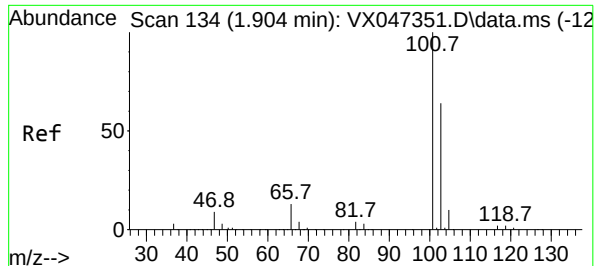
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#6
Chloroethane
Concen: 52.521 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 64 Resp: 110475
Ion Ratio Lower Upper
64 100
66 30.5 24.4 36.6





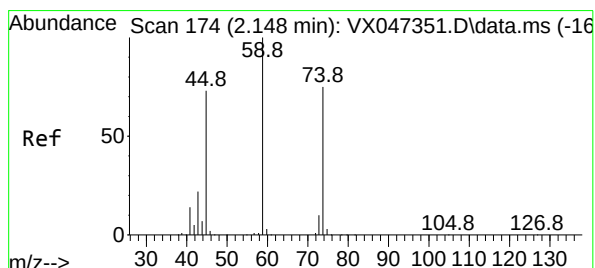
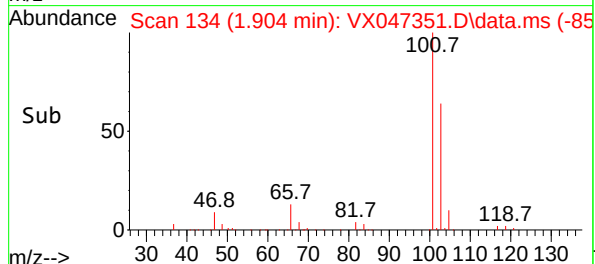
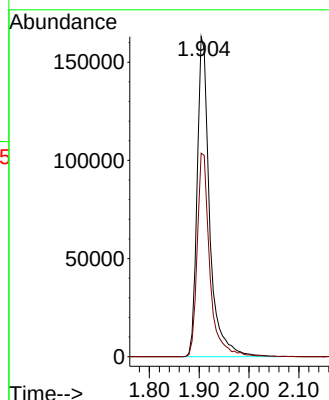
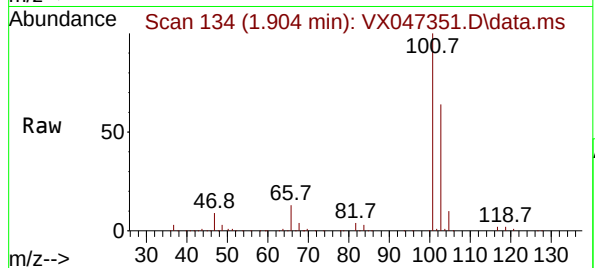
#7
Trichlorofluoromethane
Concen: 55.781 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 28365
Ion Ratio Lower Upper
101 100
103 63.6 50.9 76.3

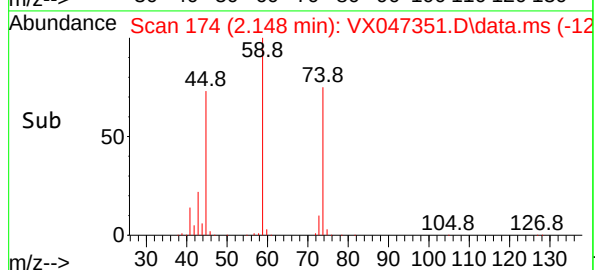
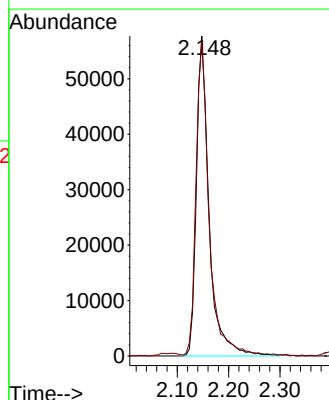
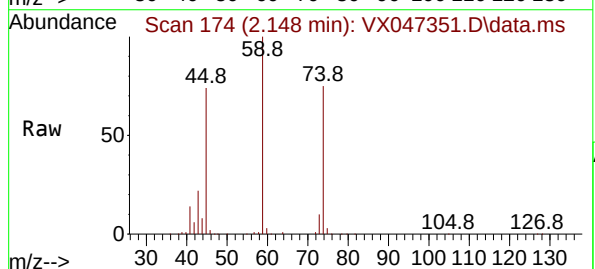
Manual Integrations
APPROVED

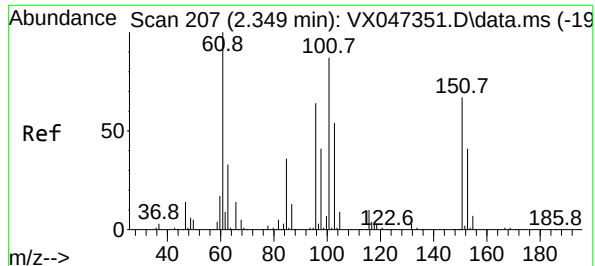
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#8
Diethyl Ether
Concen: 55.393 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 74 Resp: 99184
Ion Ratio Lower Upper
74 100
45 102.7 51.3 154.0





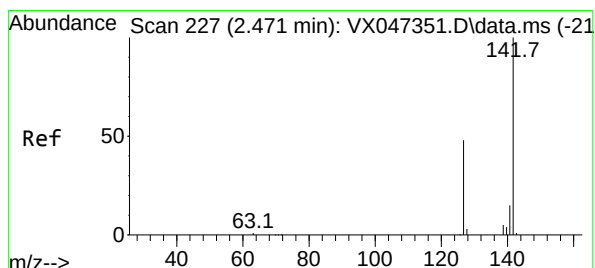
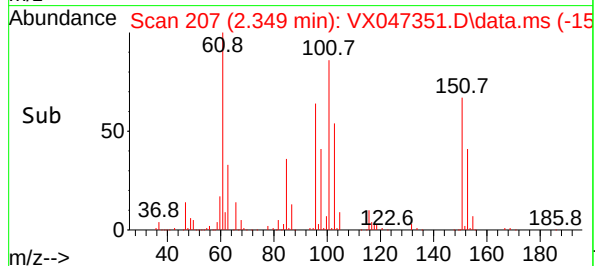
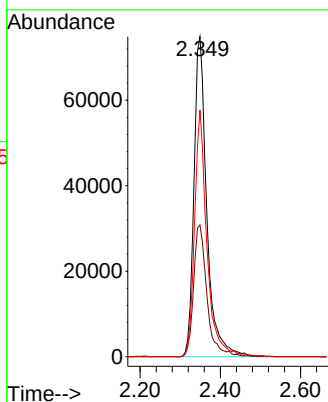
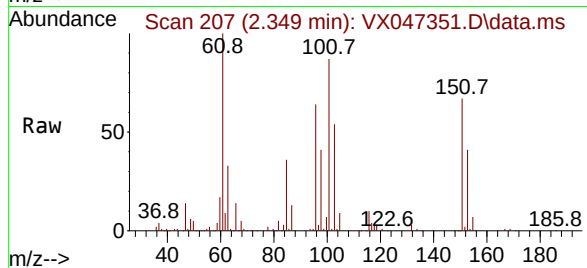
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.441 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 16649
Ion Ratio Lower Upper
101 100
85 42.9 34.3 51.5
151 74.0 59.2 88.8

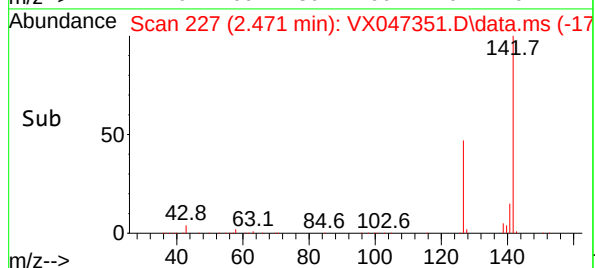
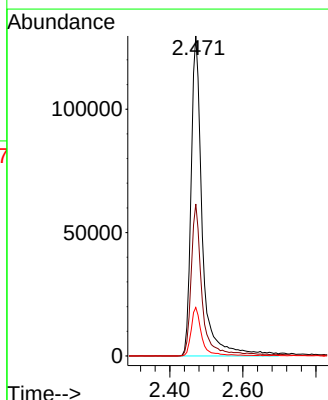
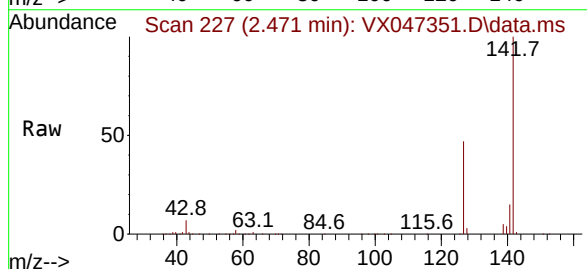
Manual Integrations
APPROVED

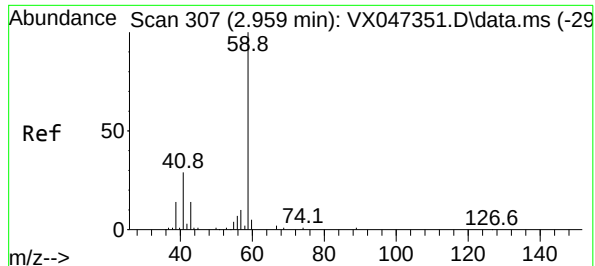
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#10
Methyl Iodide
Concen: 54.943 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:142 Resp: 277741
Ion Ratio Lower Upper
142 100
127 45.1 36.1 54.1
141 13.9 11.1 16.7





#11

Tert butyl alcohol

Concen: 279.856 ug/l

RT: 2.959 min Scan# 307

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 8138

Ion Ratio Lower Upper

59 100

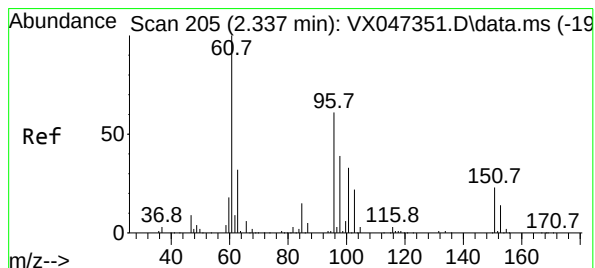
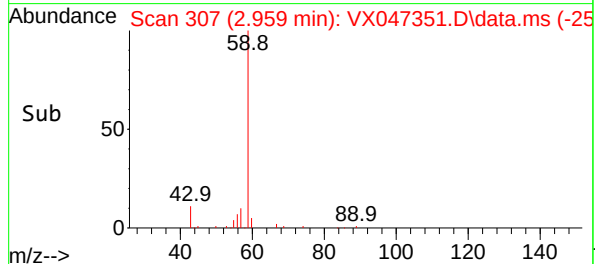
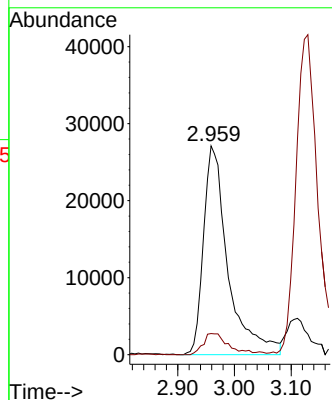
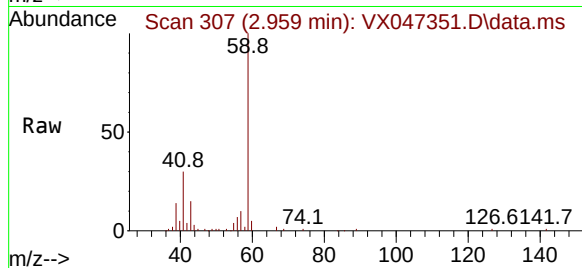
57 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#12

1,1-Dichloroethene

Concen: 55.319 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

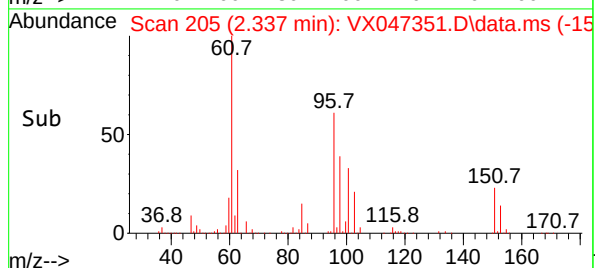
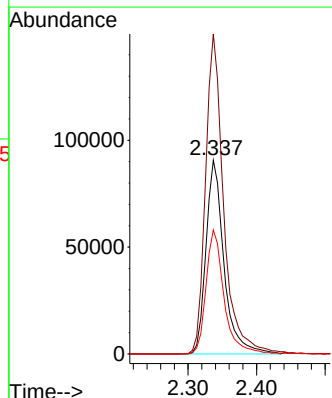
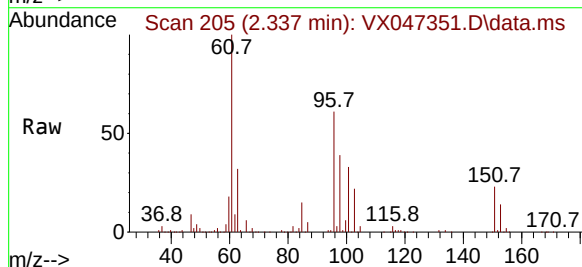
Tgt Ion: 96 Resp: 166359

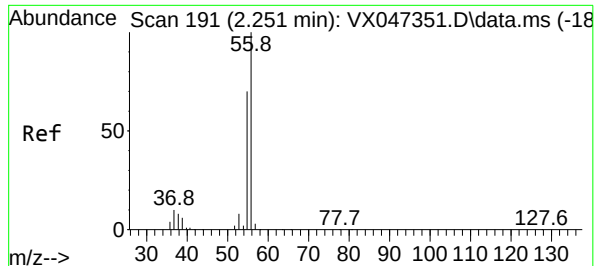
Ion Ratio Lower Upper

96 100

61 165.2 132.2 198.2

98 64.0 51.2 76.8





#13

Acrolein

Concen: 256.954 ug/l

RT: 2.251 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 157738

Ion Ratio Lower Upper

56 100

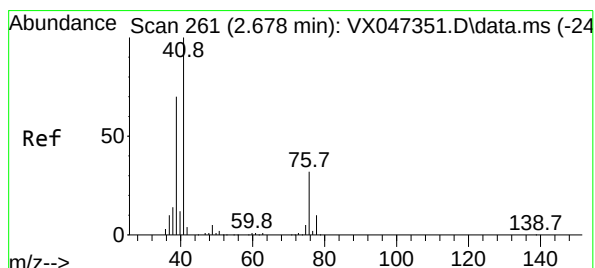
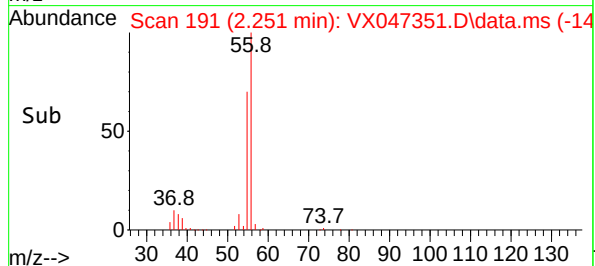
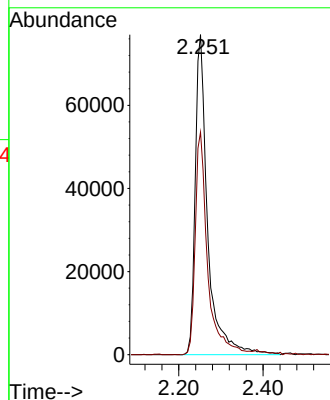
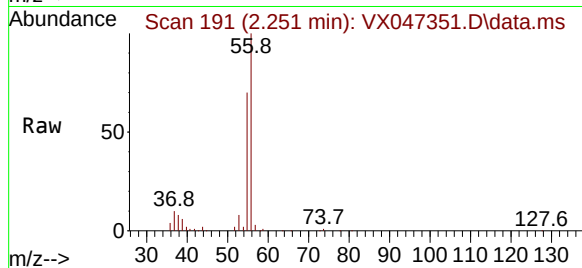
55 69.4 55.5 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#14

Allyl chloride

Concen: 55.394 ug/l

RT: 2.678 min Scan# 261

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

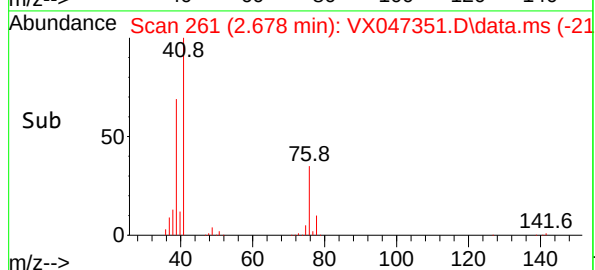
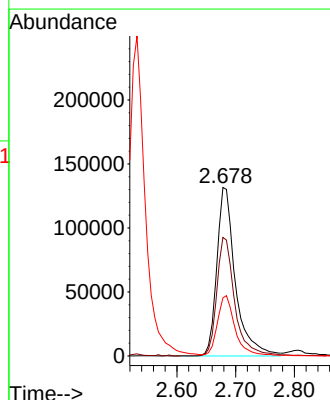
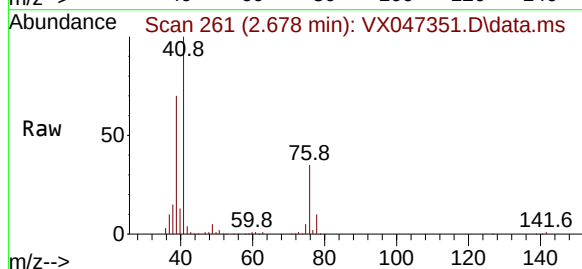
Tgt Ion: 41 Resp: 289338

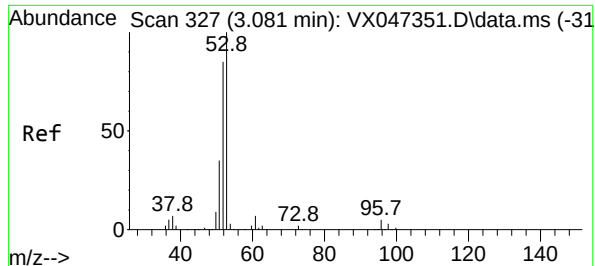
Ion Ratio Lower Upper

41 100

39 68.2 54.6 81.8

76 34.5 27.6 41.4





#15

Acrylonitrile

Concen: 288.775 ug/l

RT: 3.081 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 405784

Ion Ratio Lower Upper

53 100

52 82.2 65.8 98.6

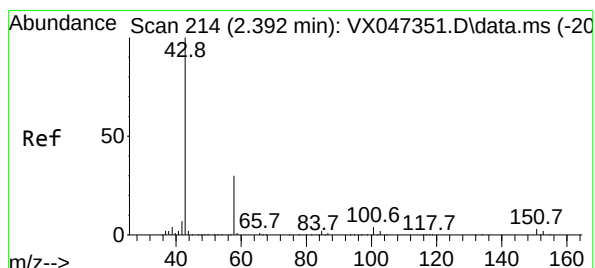
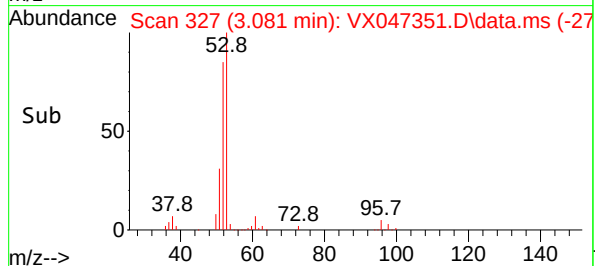
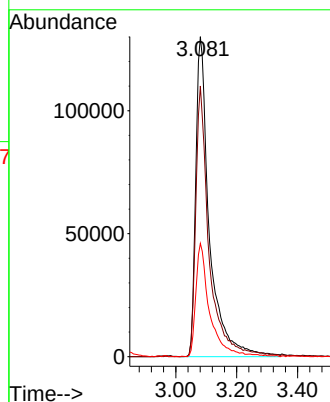
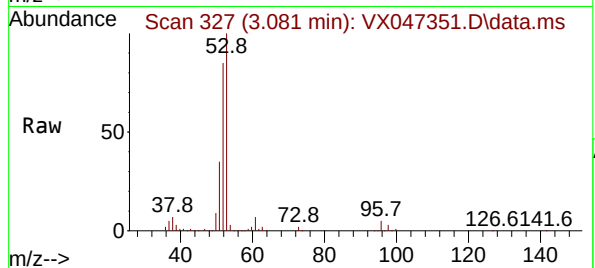
51 35.2 28.2 42.2

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#16

Acetone

Concen: 266.252 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX047351.D

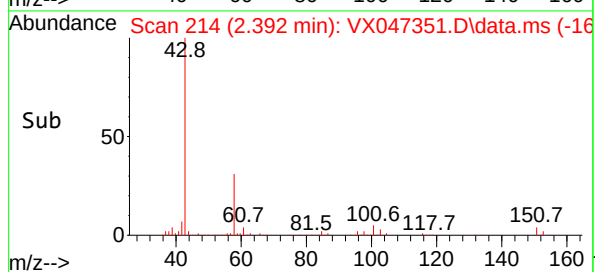
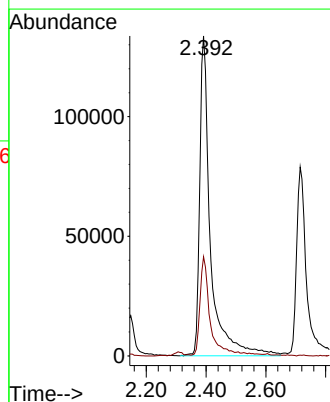
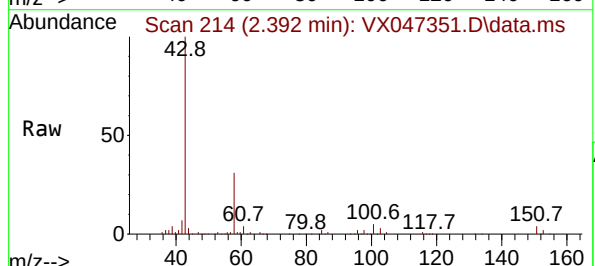
Acq: 15 Aug 2025 10:22

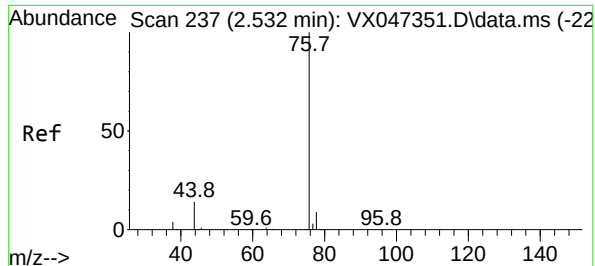
Tgt Ion: 43 Resp: 334538

Ion Ratio Lower Upper

43 100

58 31.0 24.8 37.2





#17

Carbon Disulfide

Concen: 52.455 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 476020

Ion Ratio Lower Upper

76 100

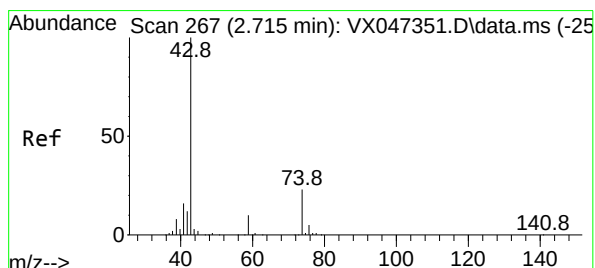
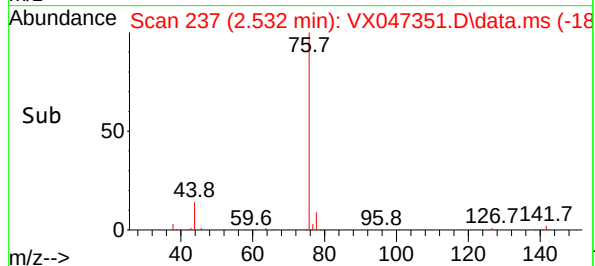
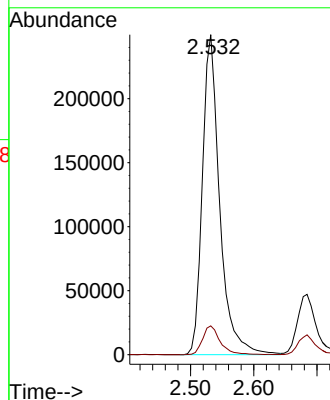
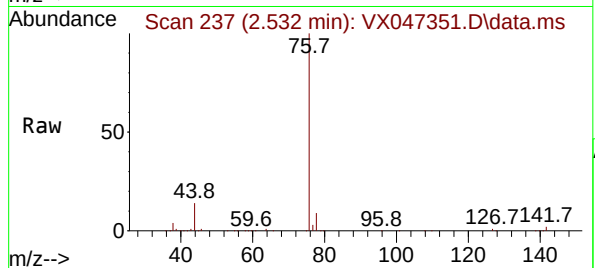
78 9.0 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#18

Methyl Acetate

Concen: 56.425 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.000 min

Lab File: VX047351.D

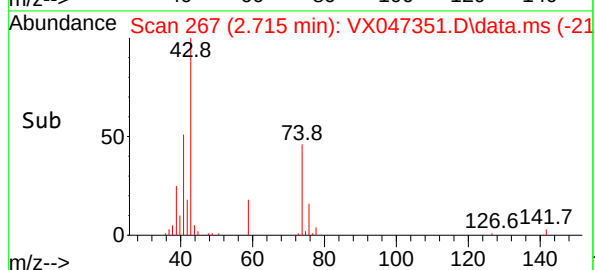
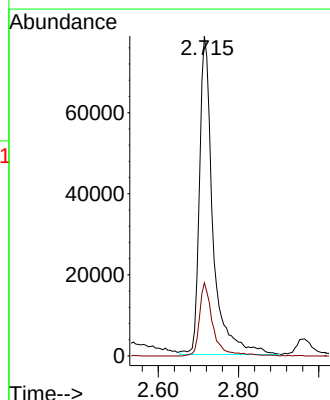
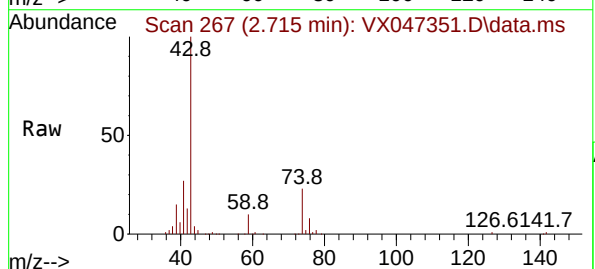
Acq: 15 Aug 2025 10:22

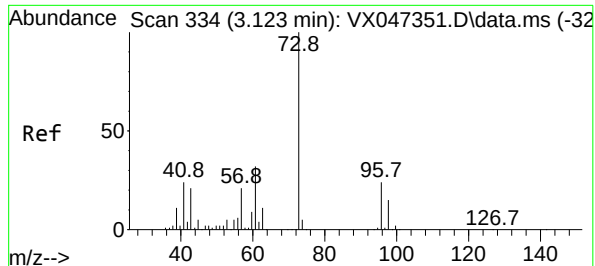
Tgt Ion: 43 Resp: 183721

Ion Ratio Lower Upper

43 100

74 23.0 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 56.782 ug/l

RT: 3.123 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 51947

Ion Ratio Lower Upper

73 100

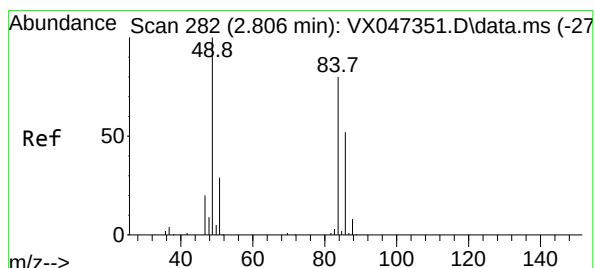
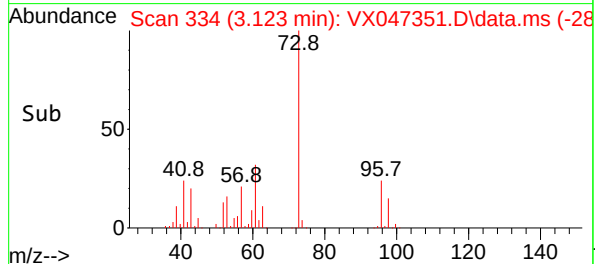
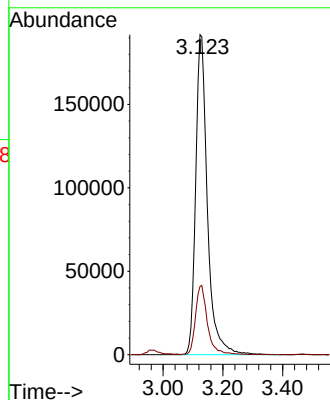
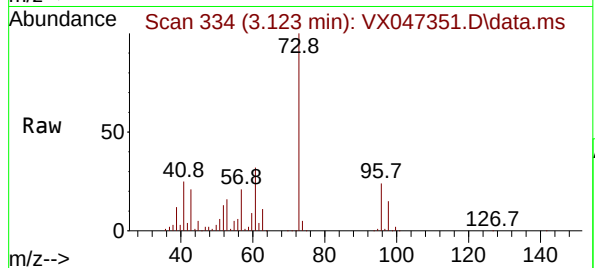
57 21.3 17.0 25.6

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#20

Methylene Chloride

Concen: 54.377 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Tgt Ion: 84 Resp: 180921

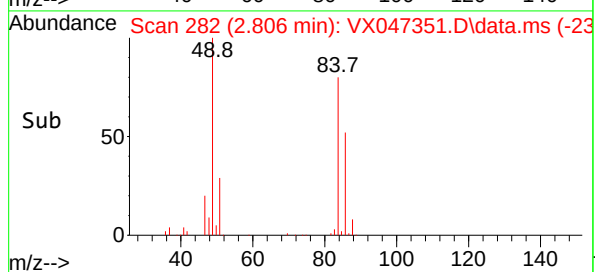
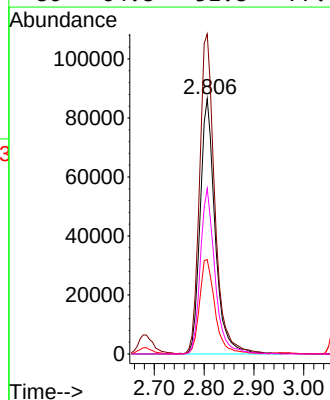
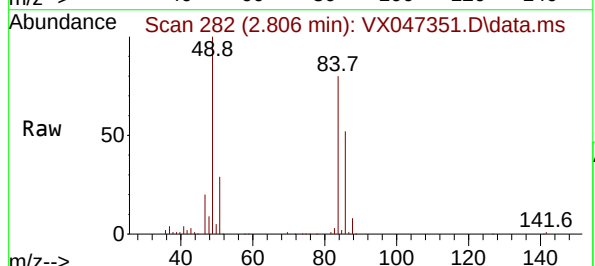
Ion Ratio Lower Upper

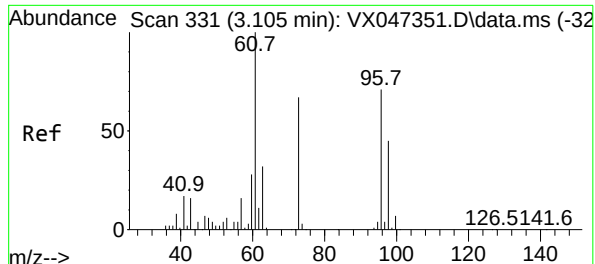
84 100

49 125.1 100.1 150.1

51 36.9 29.5 44.3

86 64.8 51.8 77.8





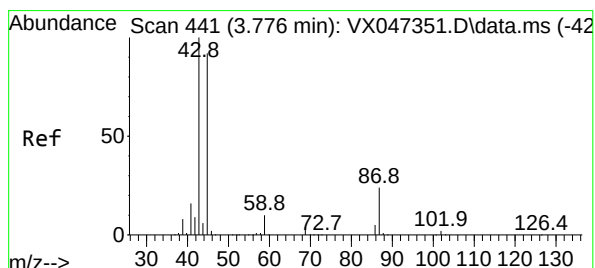
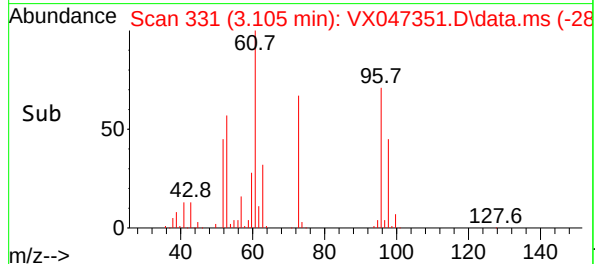
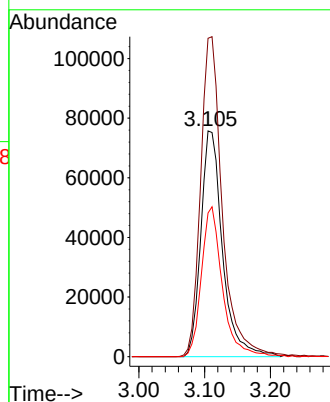
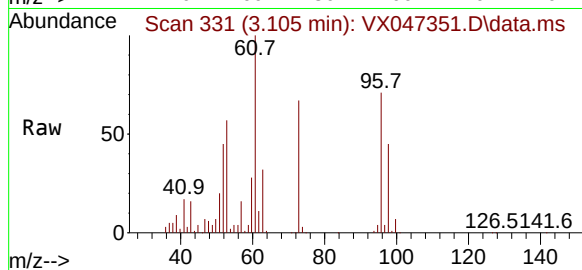
#21
trans-1,2-Dichloroethene
Concen: 54.272 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 173220
Ion Ratio Lower Upper
96 100
61 140.8 112.6 169.0
98 63.6 50.9 76.3

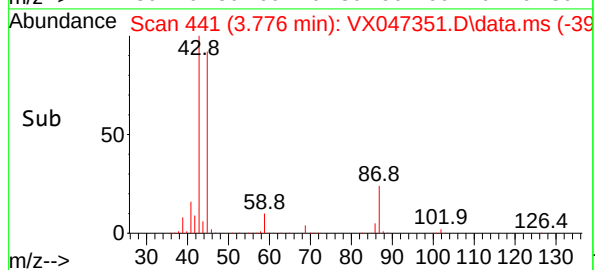
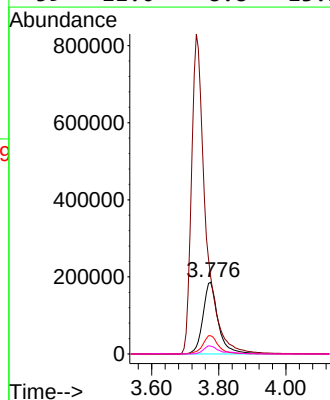
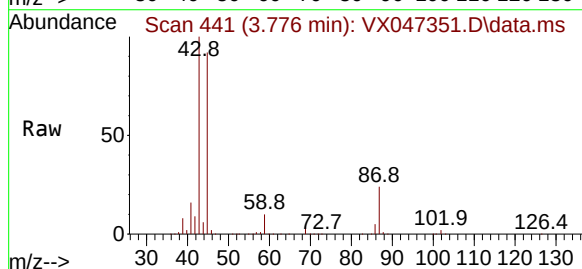
Manual Integrations
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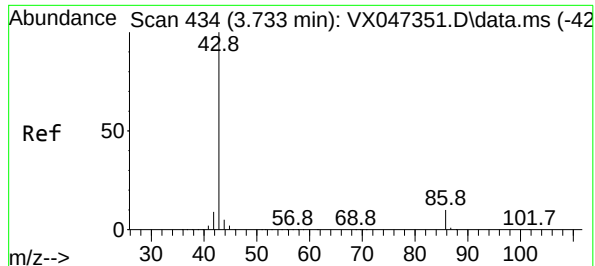
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#22
Diisopropyl ether
Concen: 56.909 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 45 Resp: 587571
Ion Ratio Lower Upper
45 100
43 108.5 86.8 130.2
87 25.5 20.4 30.6
59 11.0 8.8 13.2





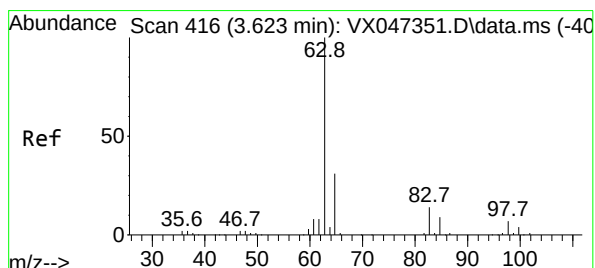
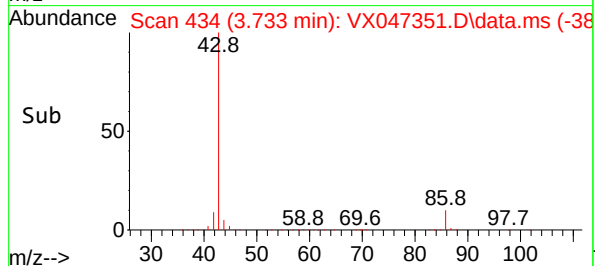
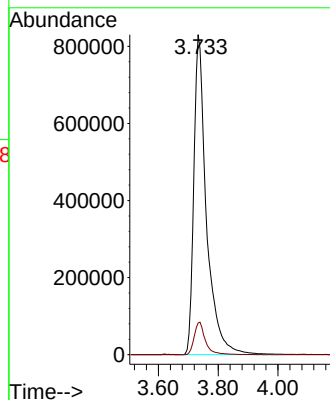
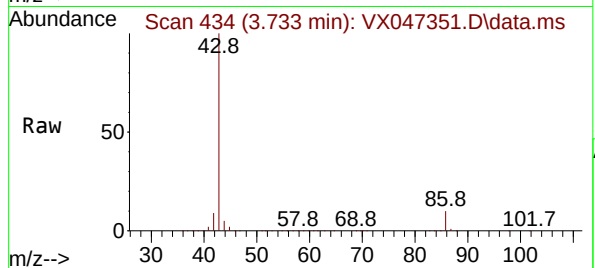
#23
Vinyl Acetate
Concen: 287.897 ug/l
RT: 3.733 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 2436350
Ion Ratio Lower Upper
43 100
86 9.9 7.9 11.9

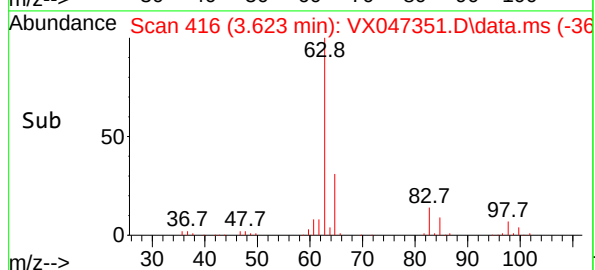
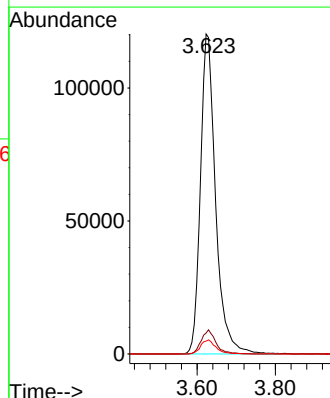
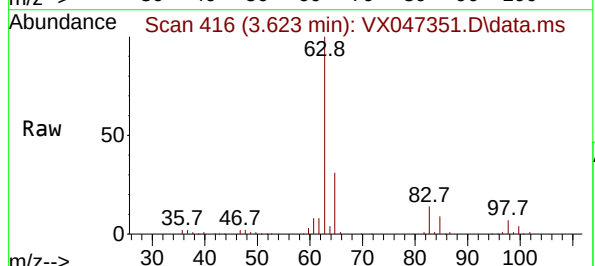
Manual Integrations
APPROVED

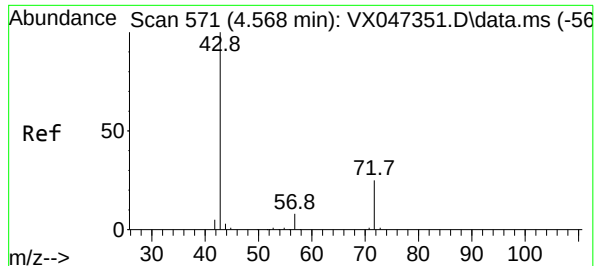
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#24
1,1-Dichloroethane
Concen: 55.516 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 63 Resp: 323982
Ion Ratio Lower Upper
63 100
98 6.6 3.3 9.9
100 4.2 2.1 6.3





#25

2-Butanone

Concen: 282.051 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 464130

Ion Ratio Lower Upper

43 100

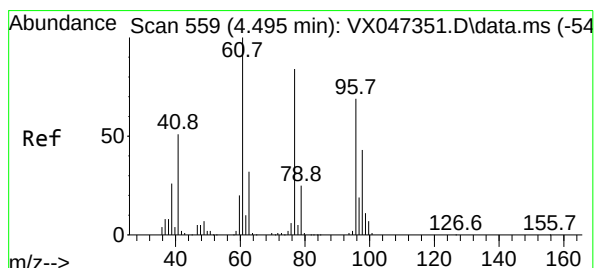
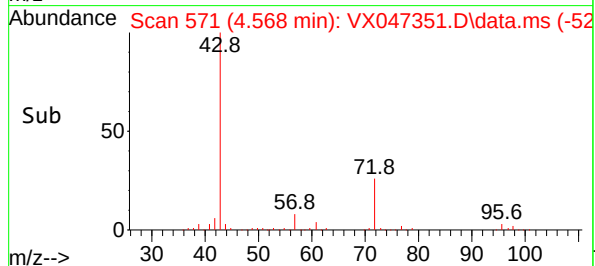
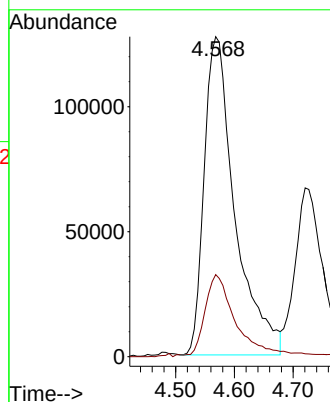
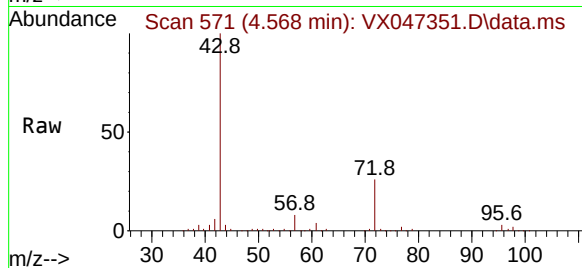
72 24.8 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#26

2,2-Dichloropropane

Concen: 55.137 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX047351.D

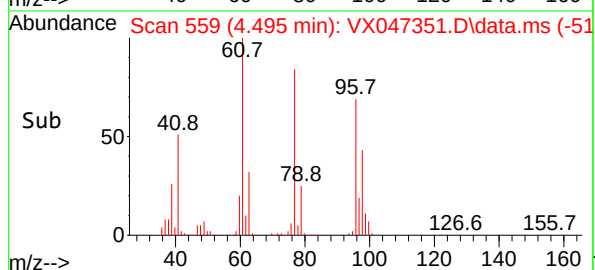
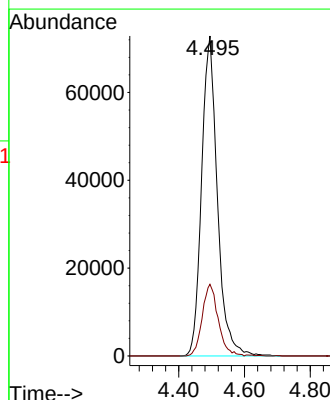
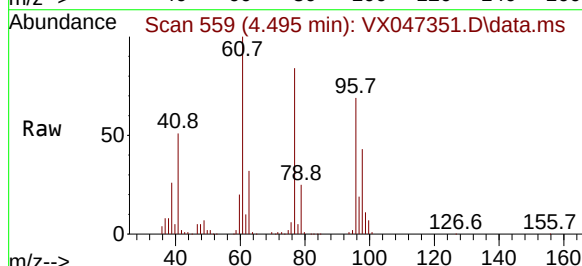
Acq: 15 Aug 2025 10:22

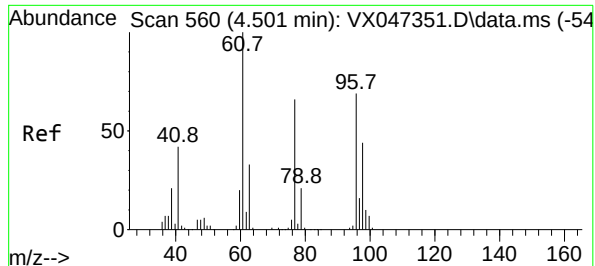
Tgt Ion: 77 Resp: 242859

Ion Ratio Lower Upper

77 100

97 22.7 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 54.366 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 202109

Ion Ratio Lower Upper

96 100

61 148.3 0.0 296.6

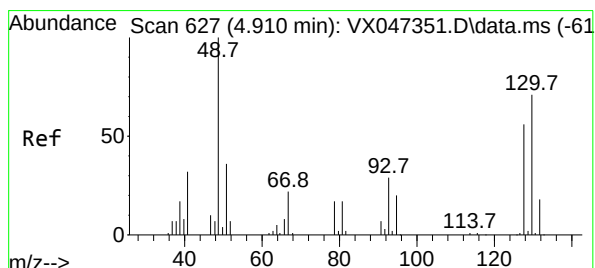
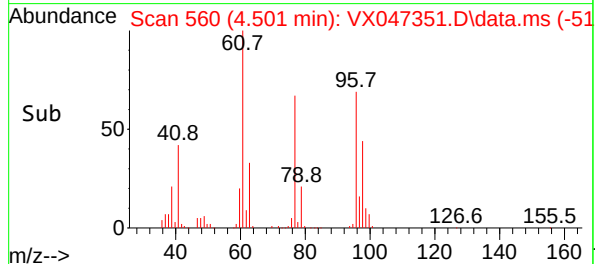
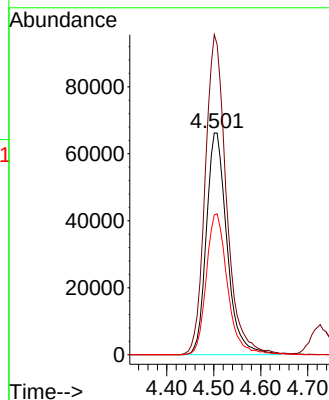
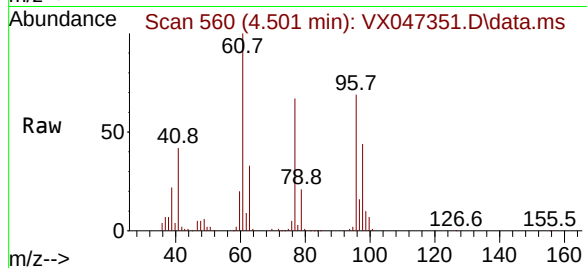
98 65.2 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#28

Bromochloromethane

Concen: 53.153 ug/l

RT: 4.910 min Scan# 627

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

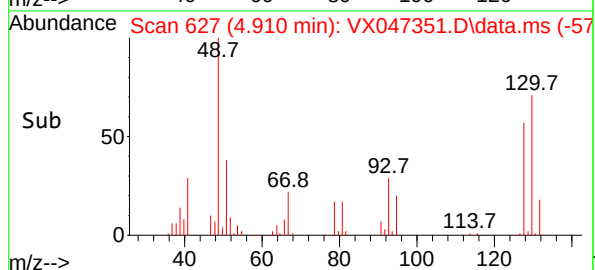
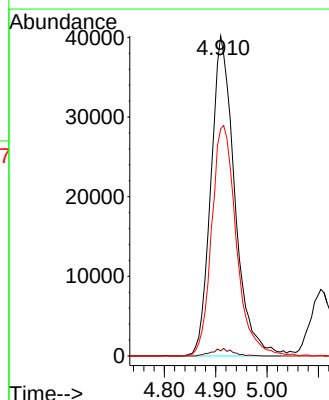
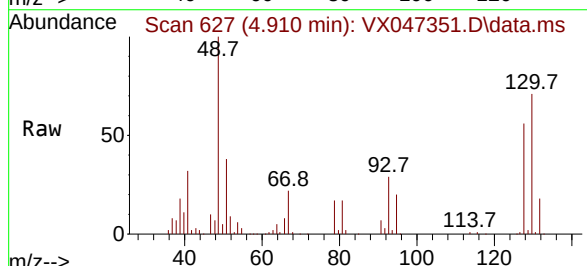
Tgt Ion: 49 Resp: 129079

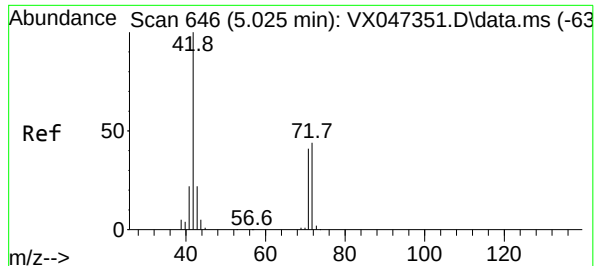
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.0

130 74.7 59.8 89.6





#29

Tetrahydrofuran

Concen: 275.925 ug/l

RT: 5.025 min Scan# 646

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 293474

Ion Ratio Lower Upper

42 100

72 43.2 34.6 51.8

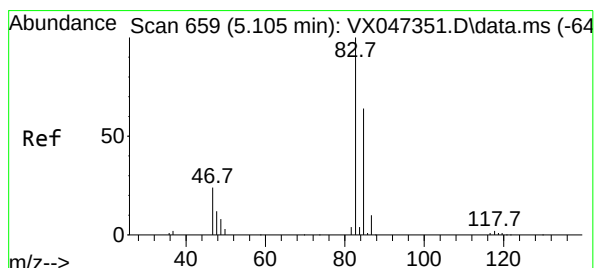
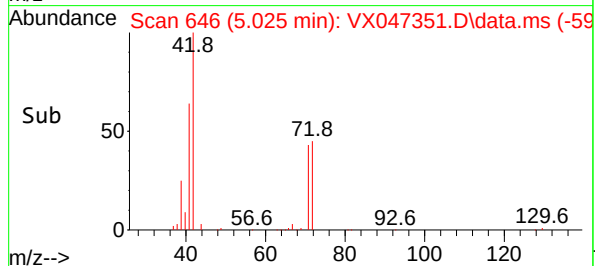
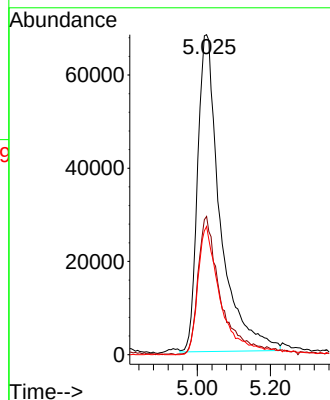
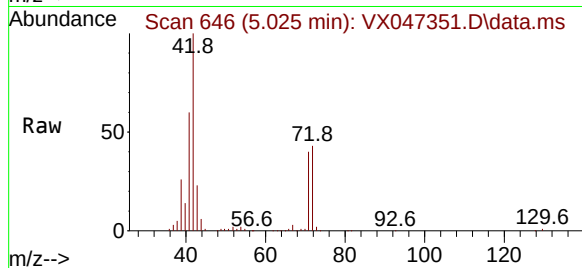
71 40.8 32.6 49.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#30

Chloroform

Concen: 54.867 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.000 min

Lab File: VX047351.D

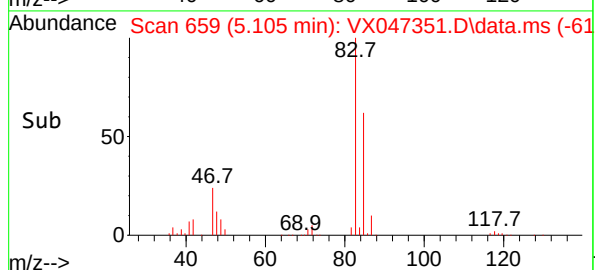
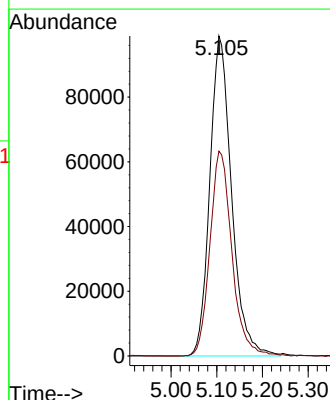
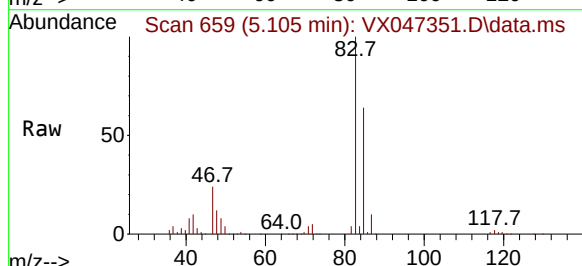
Acq: 15 Aug 2025 10:22

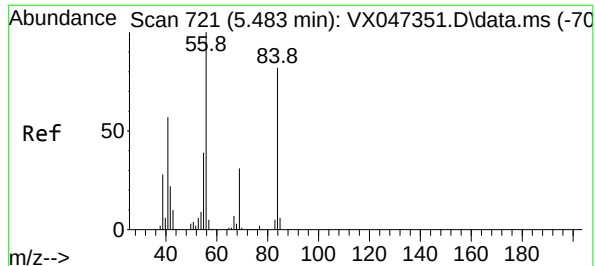
Tgt Ion: 83 Resp: 326781

Ion Ratio Lower Upper

83 100

85 64.0 51.2 76.8





#31

Cyclohexane

Concen: 53.705 ug/l

RT: 5.483 min Scan# 721

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 288914

Ion Ratio Lower Upper

56 100

69 30.4 24.3 36.5

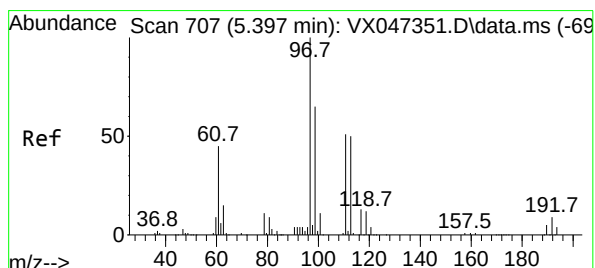
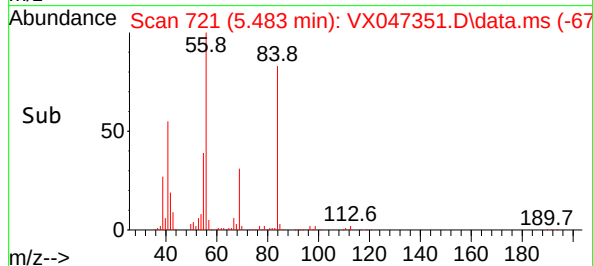
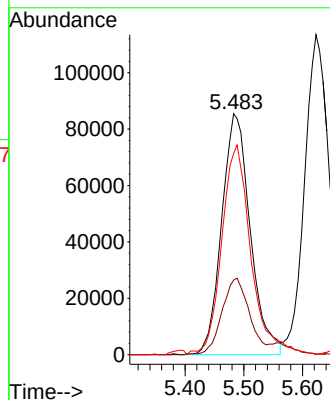
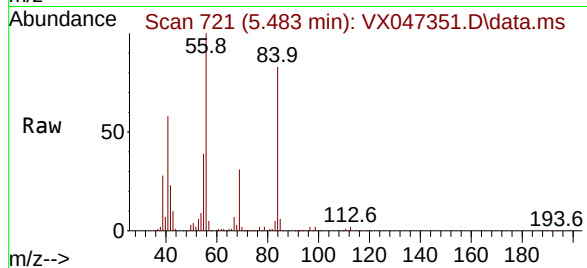
84 81.6 65.3 97.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#32

1,1,1-Trichloroethane

Concen: 55.692 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

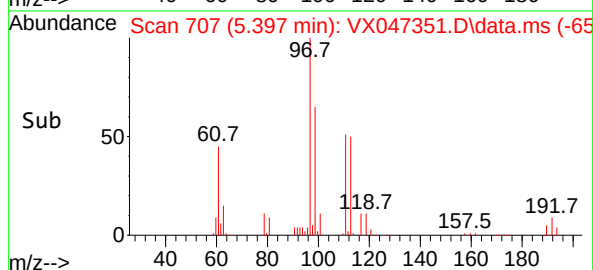
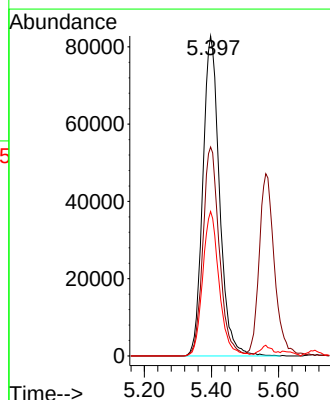
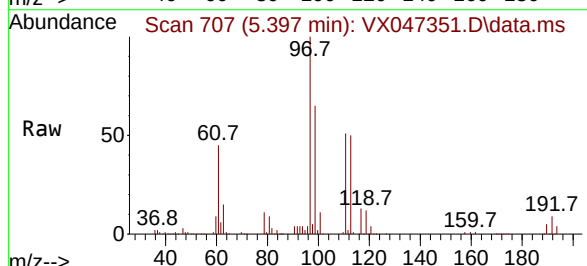
Tgt Ion: 97 Resp: 285500

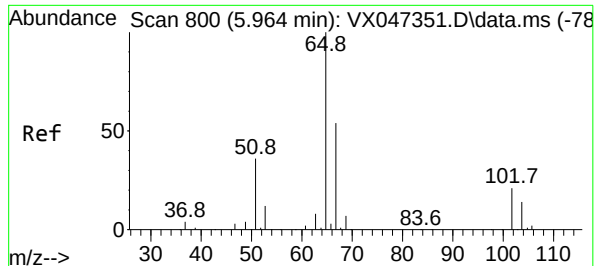
Ion Ratio Lower Upper

97 100

99 64.2 51.4 77.0

61 44.6 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 50.030 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

Client SampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 167238

Ion Ratio Lower Upper

65 100

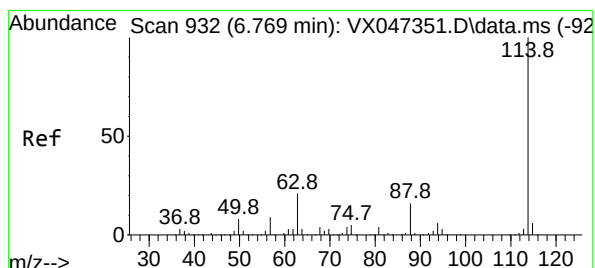
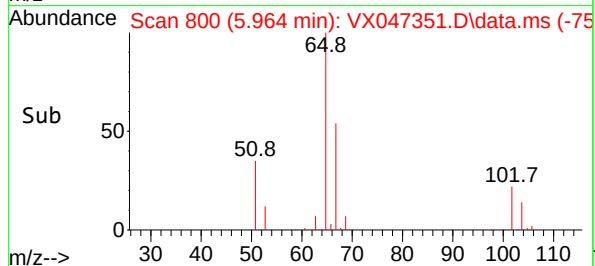
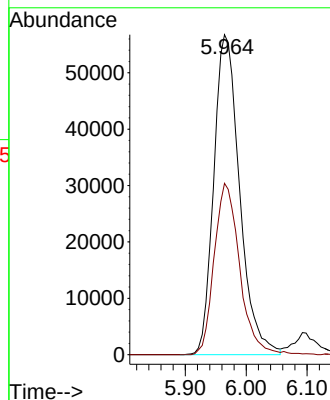
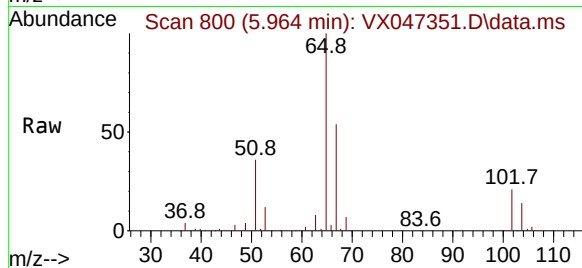
67 53.0 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

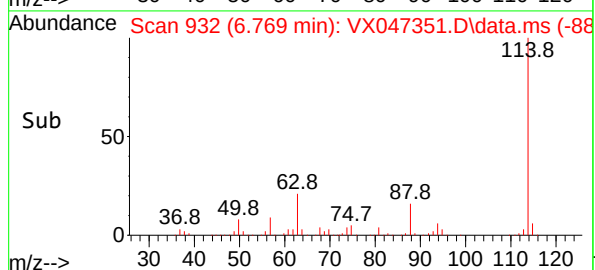
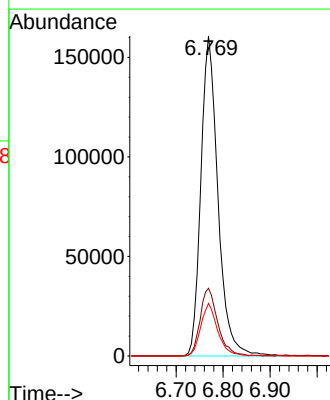
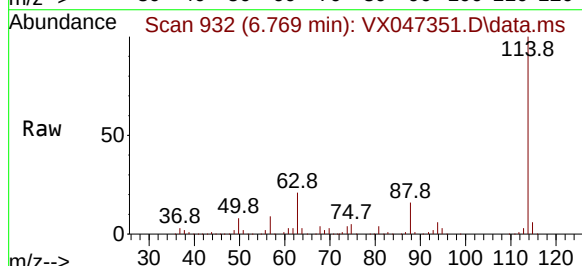
Tgt Ion:114 Resp: 405572

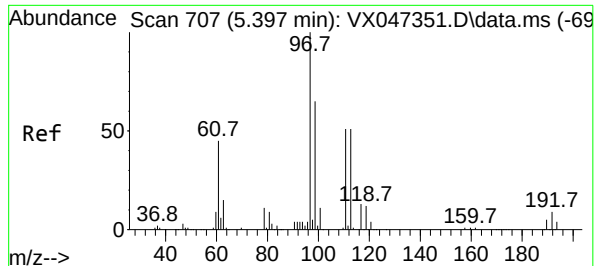
Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.4

88 16.5 0.0 33.0





#35

Dibromofluoromethane

Concen: 51.074 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 13443

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.2

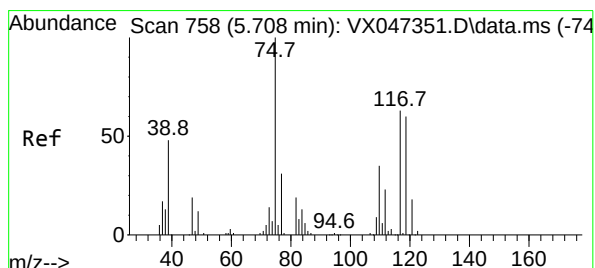
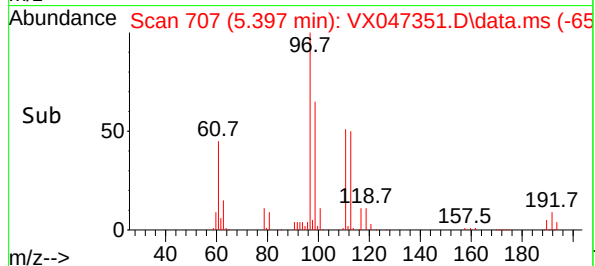
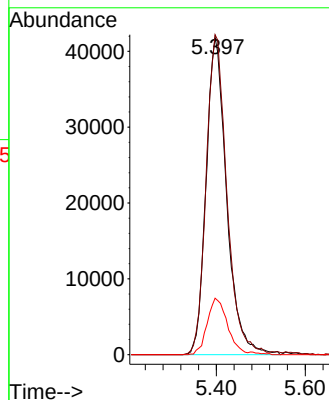
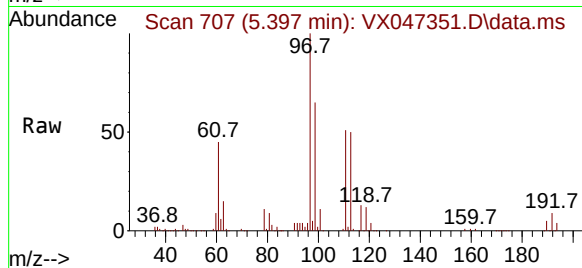
192 17.6 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#36

1,1-Dichloropropene

Concen: 54.893 ug/l

RT: 5.708 min Scan# 758

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

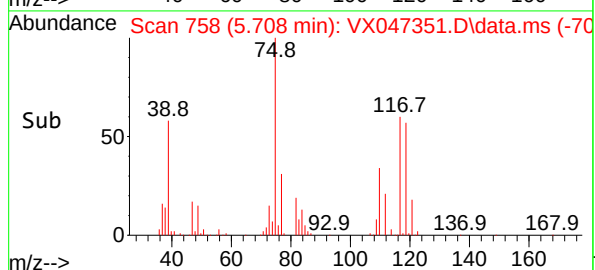
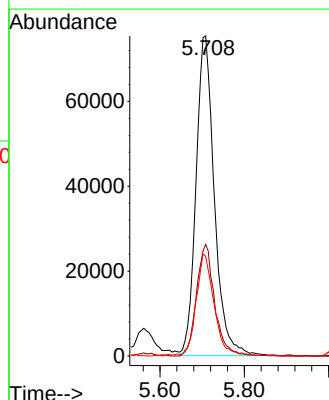
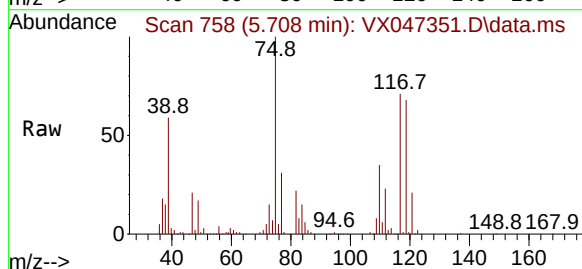
Tgt Ion: 75 Resp: 228086

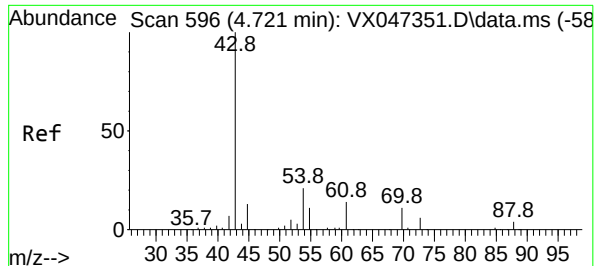
Ion Ratio Lower Upper

75 100

110 34.8 17.4 52.2

77 30.5 24.4 36.6





#37

Ethyl Acetate

Concen: 55.477 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

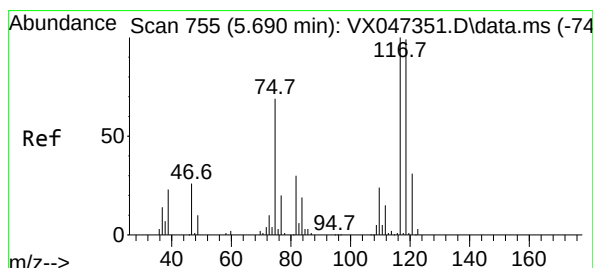
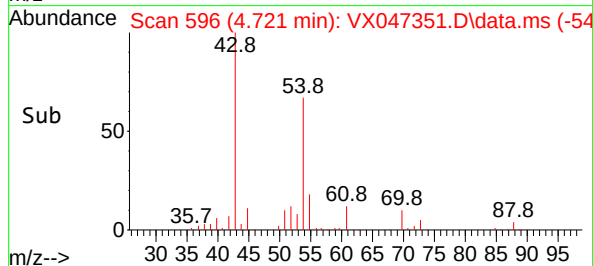
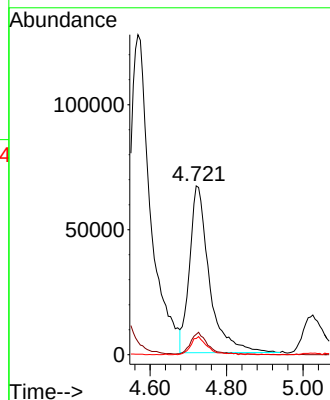
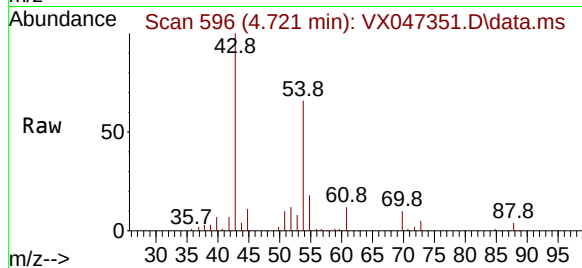
VSTDICCC050

Tgt Ion:	43	Resp:	239310
Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.4	14.2
70	8.8	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#38

Carbon Tetrachloride

Concen: 54.258 ug/l

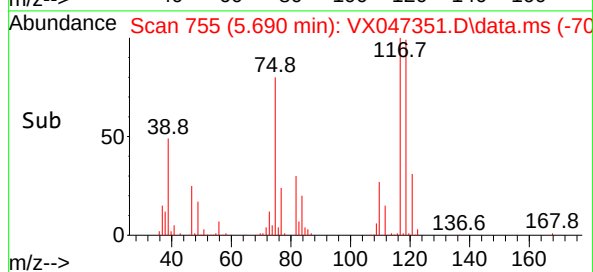
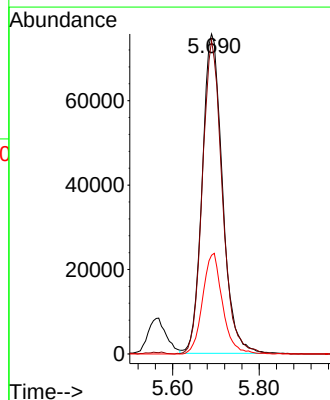
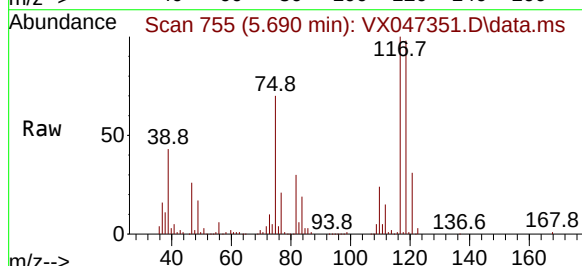
RT: 5.690 min Scan# 755

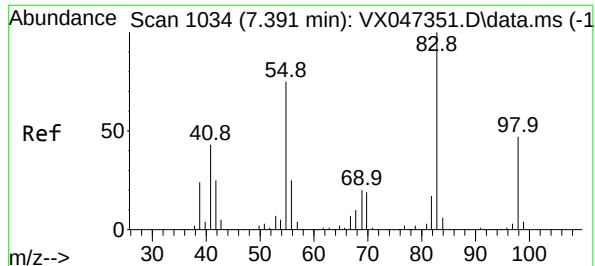
Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Tgt Ion:	117	Resp:	246368
Ion	Ratio	Lower	Upper
117	100		
119	98.1	78.5	117.7
121	30.9	24.7	37.1





#39

Methylcyclohexane

Concen: 54.402 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 281960

Ion Ratio Lower Upper

83 100

55 75.0 60.0 90.0

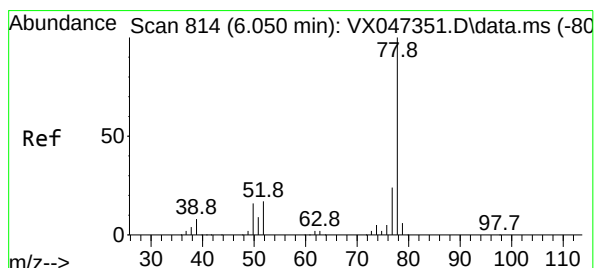
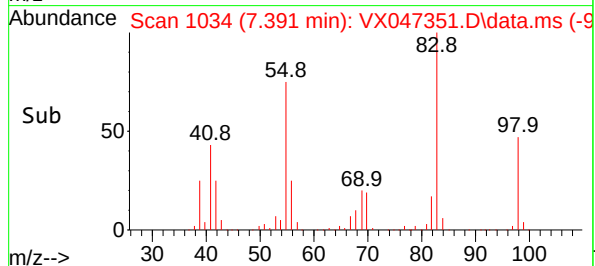
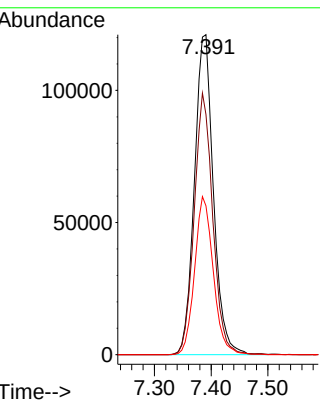
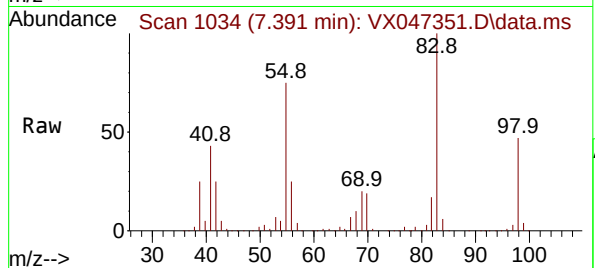
98 46.5 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#40

Benzene

Concen: 55.477 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX047351.D

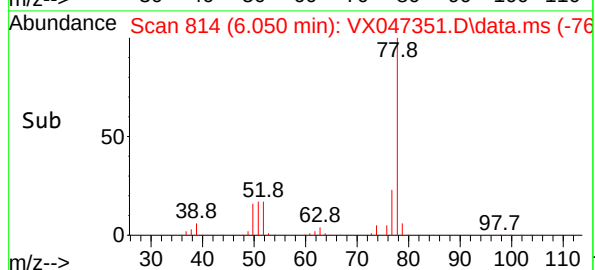
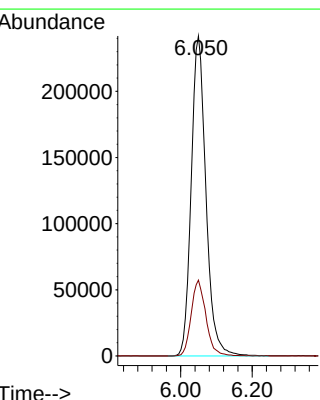
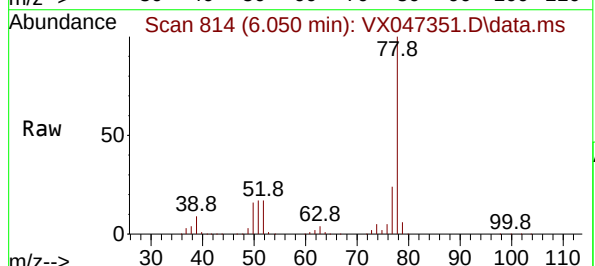
Acq: 15 Aug 2025 10:22

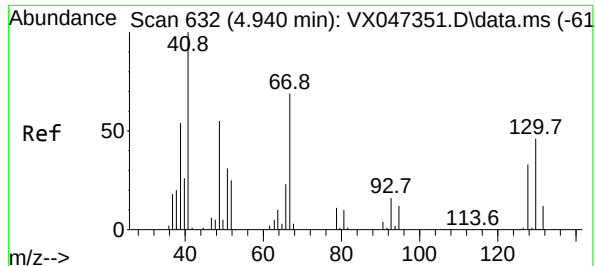
Tgt Ion: 78 Resp: 689965

Ion Ratio Lower Upper

78 100

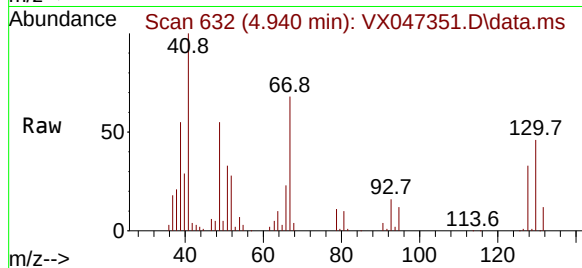
77 23.7 19.0 28.4





#41
Methacrylonitrile
Concen: 57.547 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

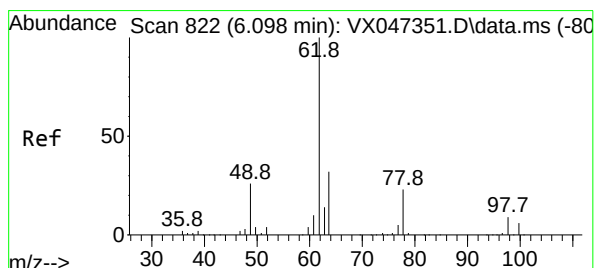
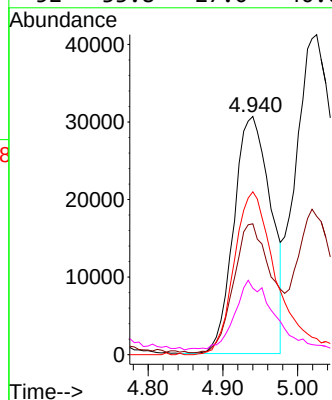
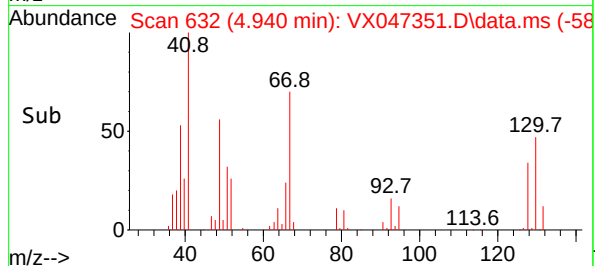
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 41 Resp: 104680
Ion Ratio Lower Upper
41 100
39 56.8 45.4 68.2
67 80.0 64.0 96.0
52 33.8 27.0 40.6

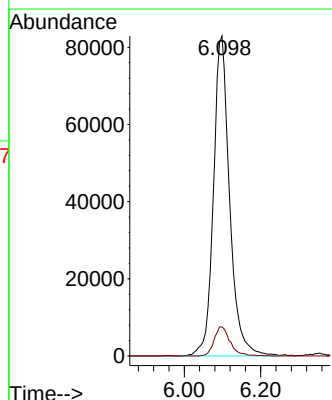
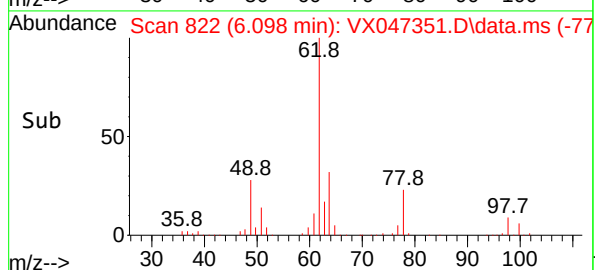
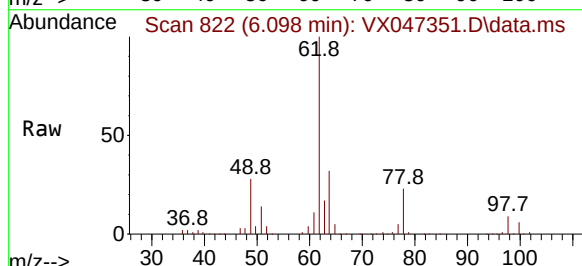
Manual Integrations
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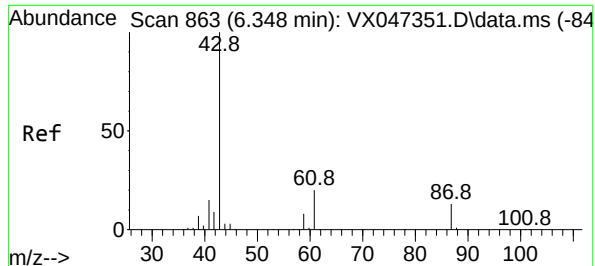
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#42
1,2-Dichloroethane
Concen: 55.271 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 62 Resp: 243489
Ion Ratio Lower Upper
62 100
98 9.0 0.0 18.0





#43

Isopropyl Acetate

Concen: 56.817 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 352090

Ion Ratio Lower Upper

43 100

61 19.2 15.4 23.0

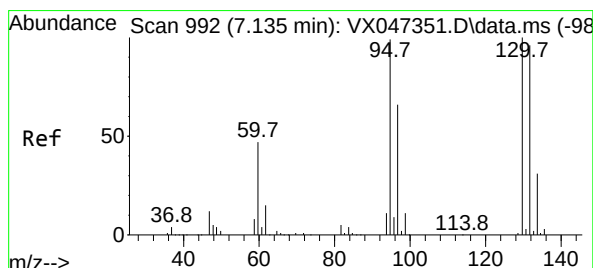
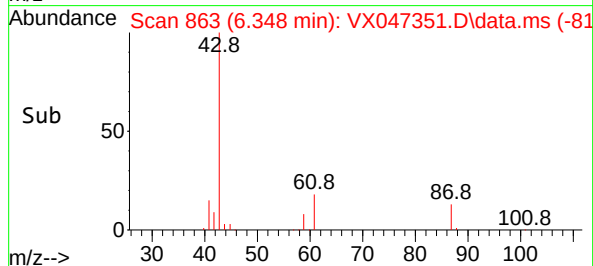
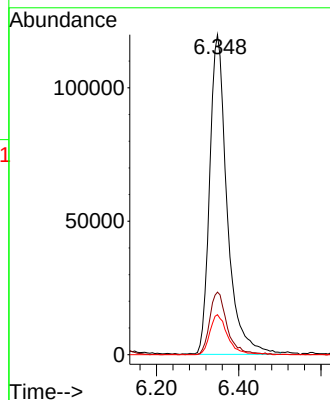
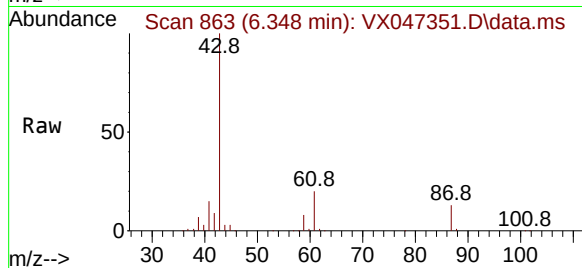
87 12.8 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#44

Trichloroethene

Concen: 55.081 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX047351.D

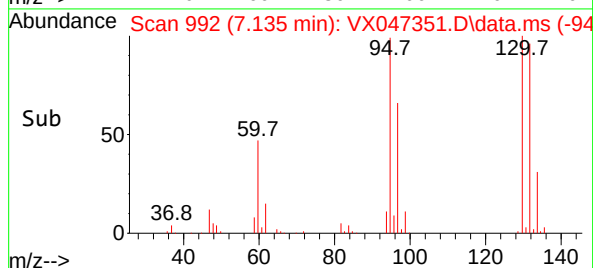
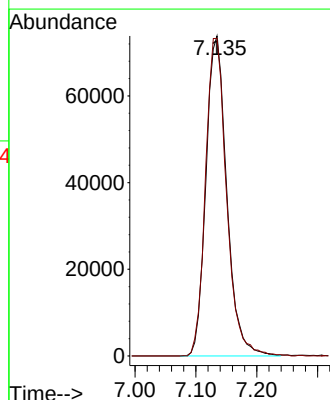
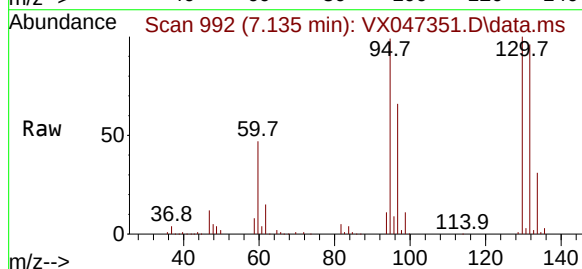
Acq: 15 Aug 2025 10:22

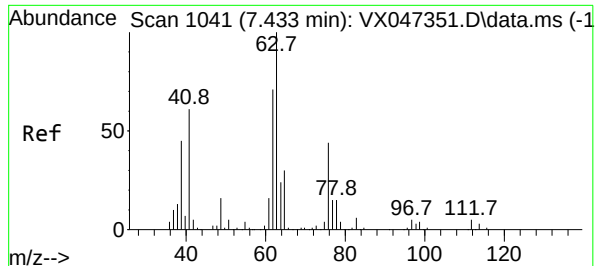
Tgt Ion:130 Resp: 175409

Ion Ratio Lower Upper

130 100

95 99.3 0.0 198.6





#45

1,2-Dichloropropane

Concen: 54.740 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 170550

Ion Ratio Lower Upper

63 100

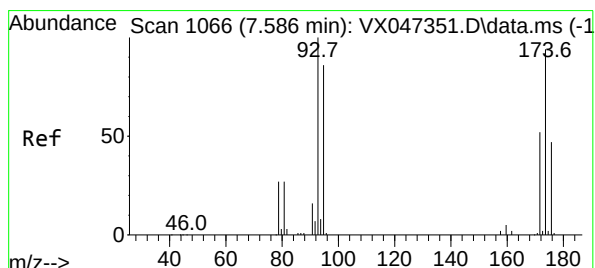
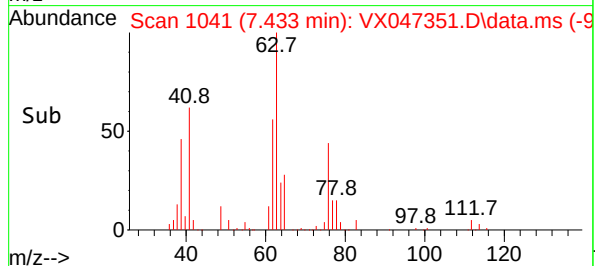
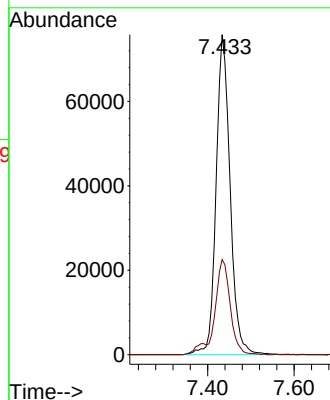
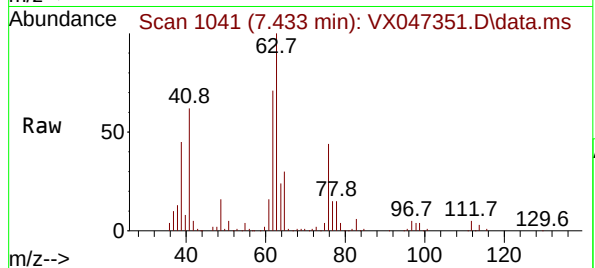
65 29.7 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#46

Dibromomethane

Concen: 54.124 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

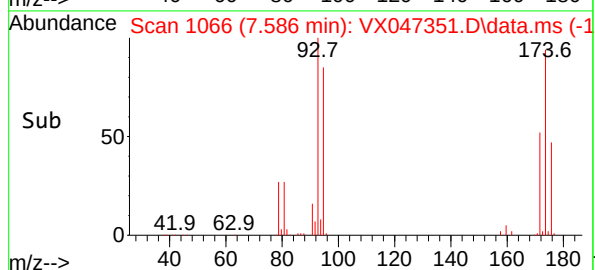
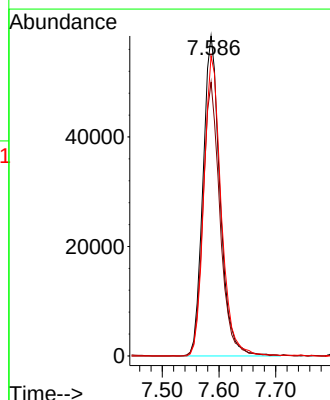
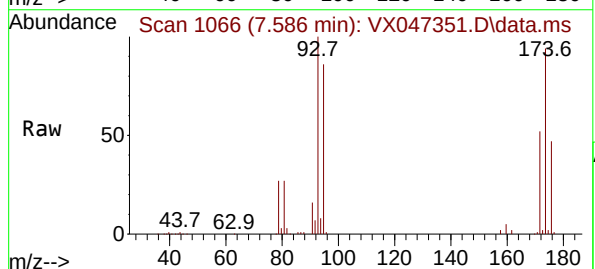
Tgt Ion: 93 Resp: 122428

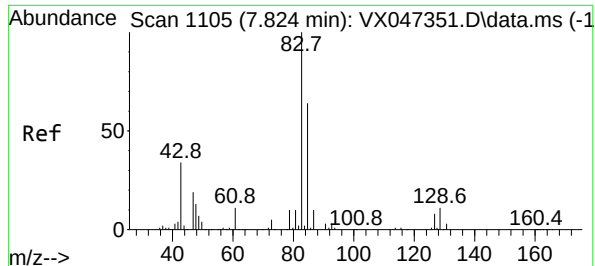
Ion Ratio Lower Upper

93 100

95 85.0 68.0 102.0

174 94.7 75.8 113.6





#47

Bromodichloromethane

Concen: 54.888 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

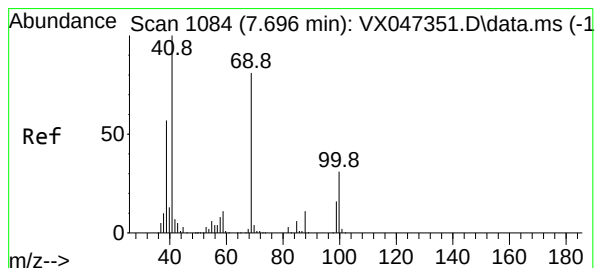
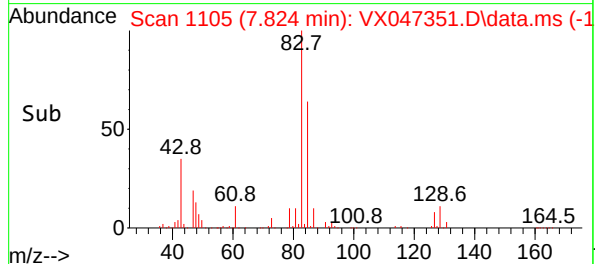
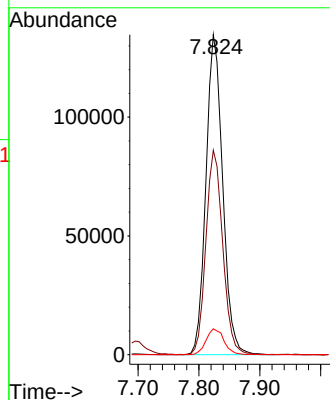
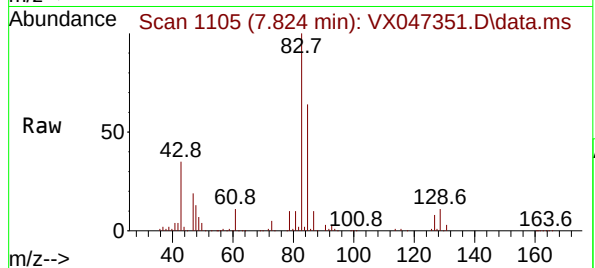
VSTDICCC050

Tgt Ion:	83	Resp:	25739
Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.0	76.6
127	8.7	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#48

Methyl methacrylate

Concen: 56.136 ug/l

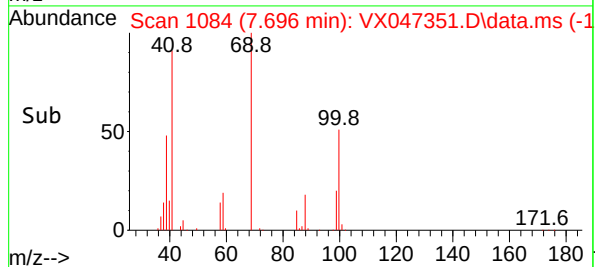
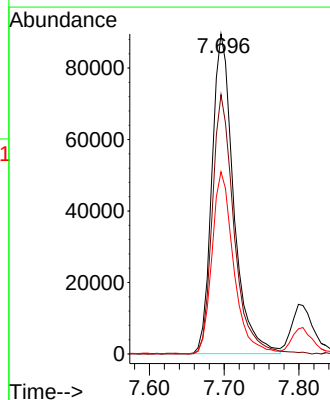
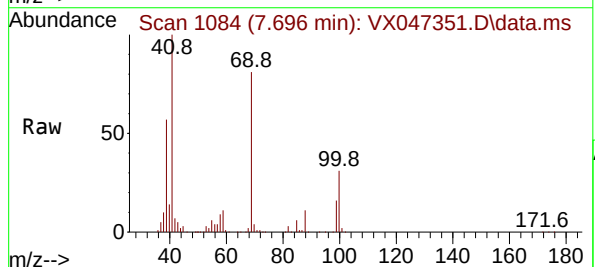
RT: 7.696 min Scan# 1084

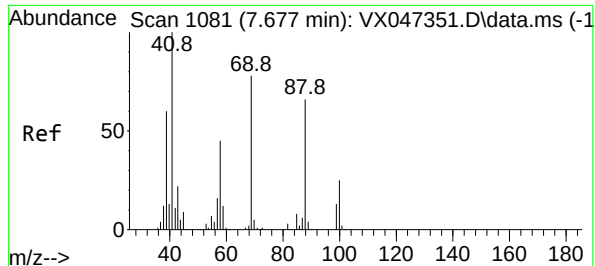
Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Tgt Ion:	41	Resp:	180568
Ion	Ratio	Lower	Upper
41	100		
69	81.2	65.0	97.4
39	57.1	45.7	68.5





#49

1,4-Dioxane

Concen: 1188.274 ug/l

RT: 7.677 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

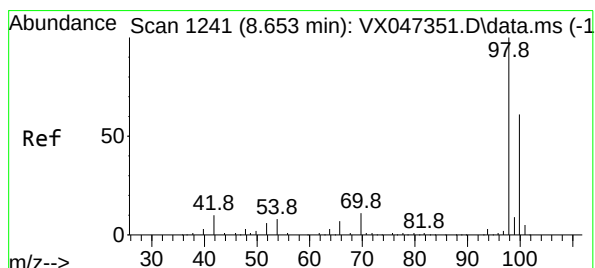
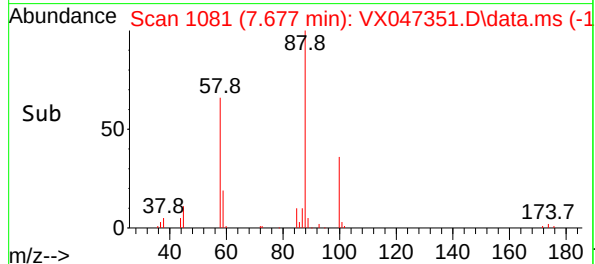
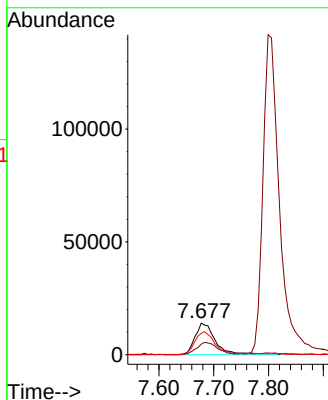
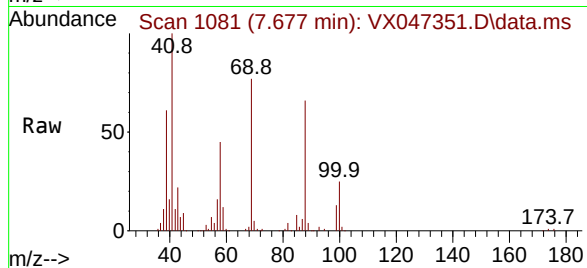
Tgt Ion:	88	Resp:	36298
Ion	Ratio	Lower	Upper
88	100		
43	40.5	32.4	48.6
58	71.1	56.9	85.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#50

Toluene-d8

Concen: 50.492 ug/l

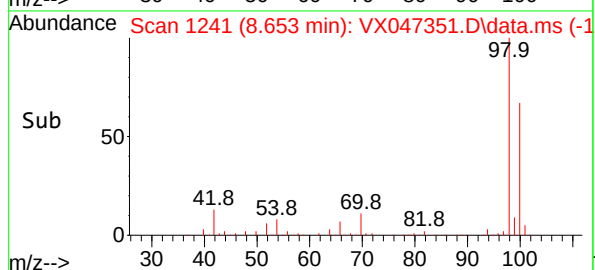
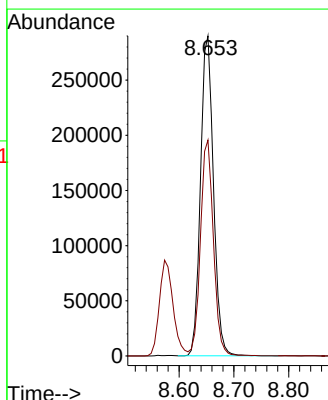
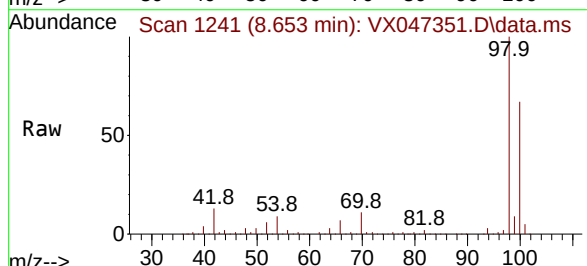
RT: 8.653 min Scan# 1241

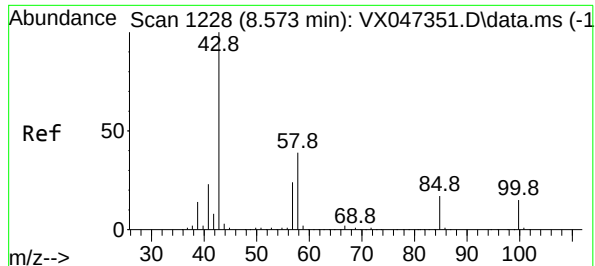
Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Tgt Ion:	98	Resp:	475041
Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.9	80.9





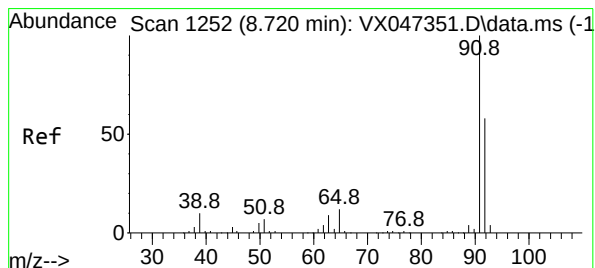
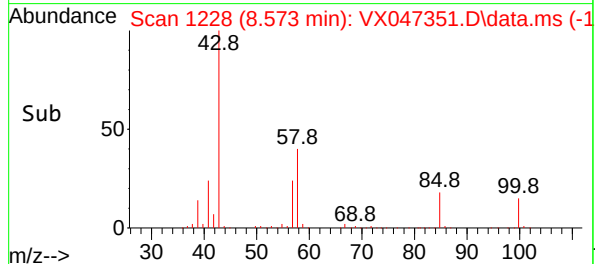
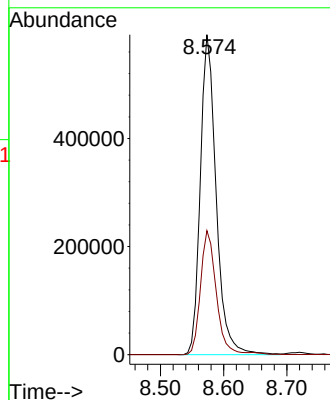
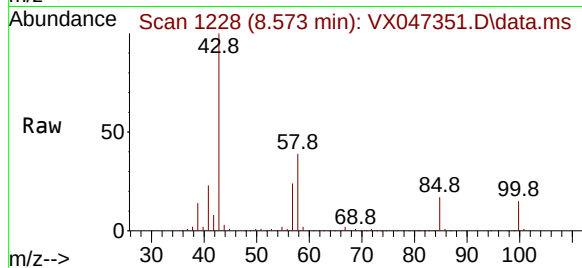
#51
4-Methyl-2-Pentanone
Concen: 289.311 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1031709
Ion Ratio Lower Upper
43 100
58 39.0 31.2 46.8

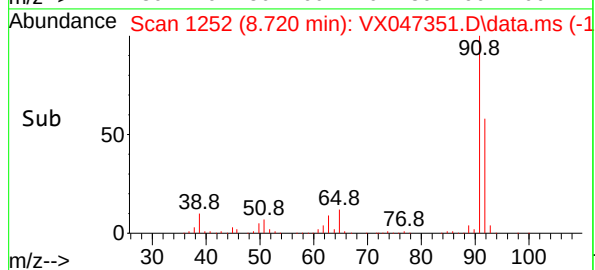
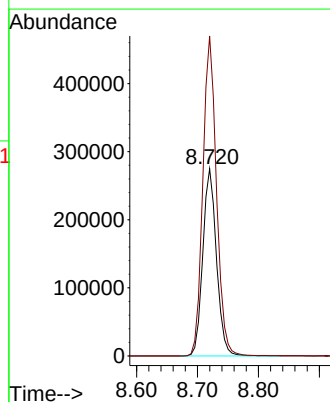
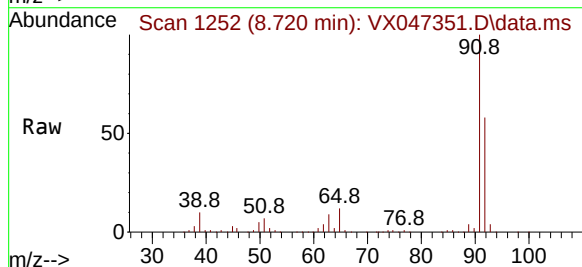
Manual Integrations
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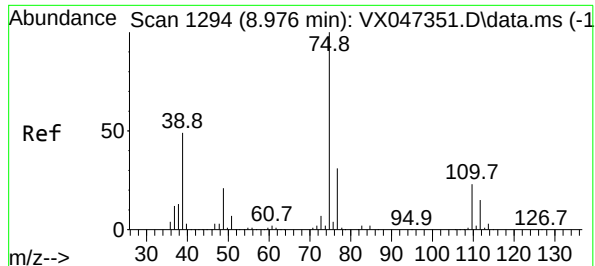
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#52
Toluene
Concen: 55.767 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 92 Resp: 428577
Ion Ratio Lower Upper
92 100
91 170.4 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 57.913 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 23702

Ion Ratio Lower Upper

75 100

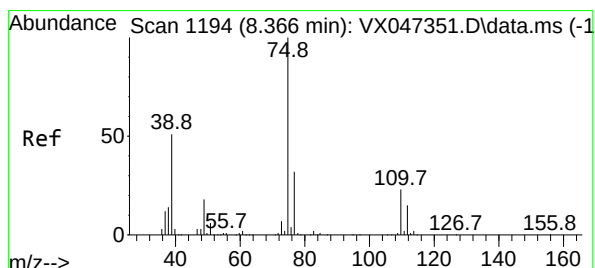
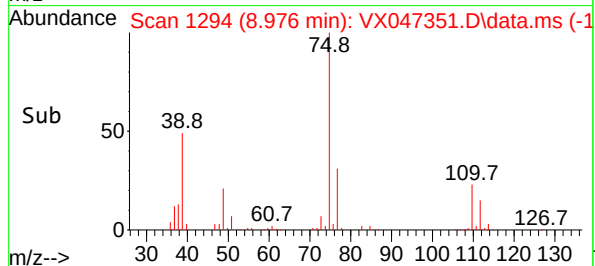
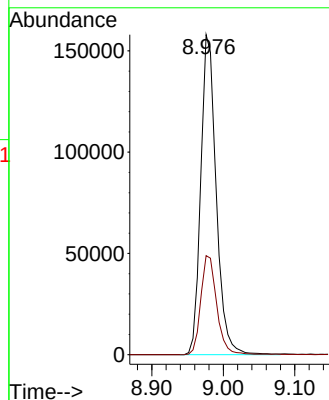
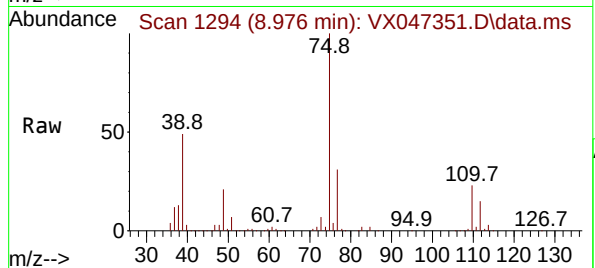
77 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#54

cis-1,3-Dichloropropene

Concen: 56.202 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

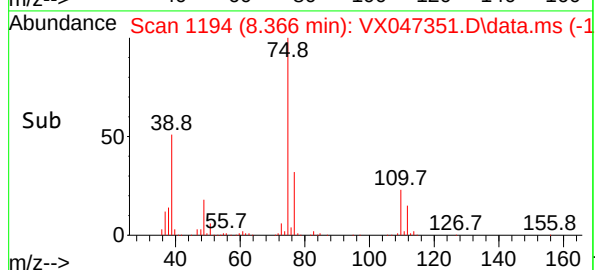
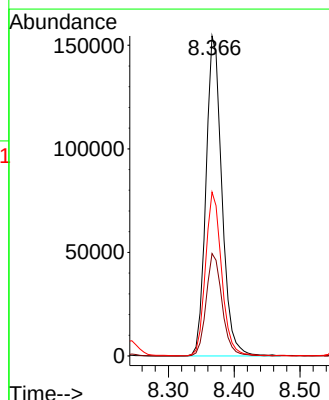
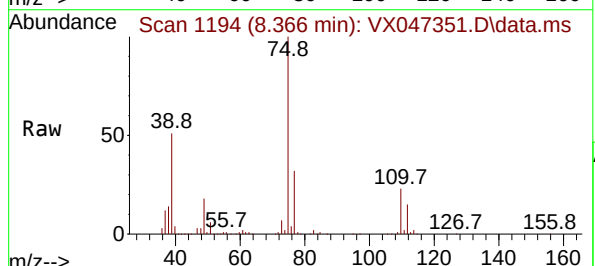
Tgt Ion: 75 Resp: 260352

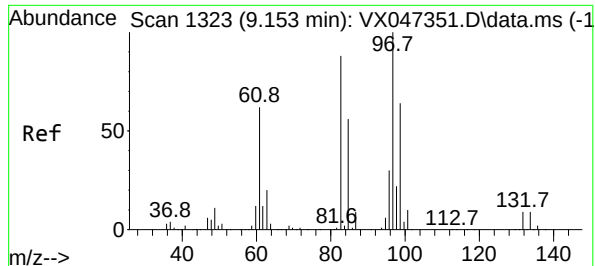
Ion Ratio Lower Upper

75 100

77 32.0 25.6 38.4

39 51.1 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 54.984 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 160439

Ion Ratio Lower Upper

97 100

83 88.3 70.6 106.0

85 55.9 44.7 67.1

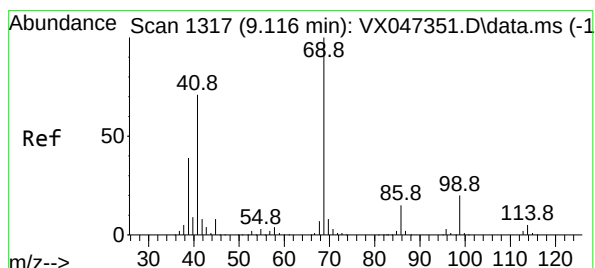
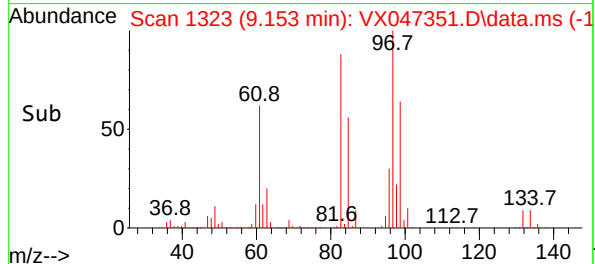
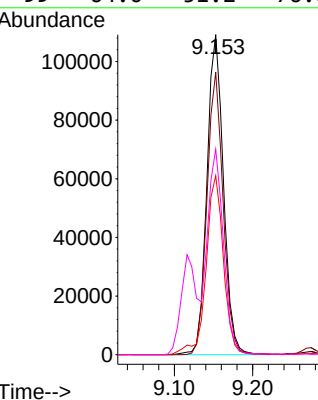
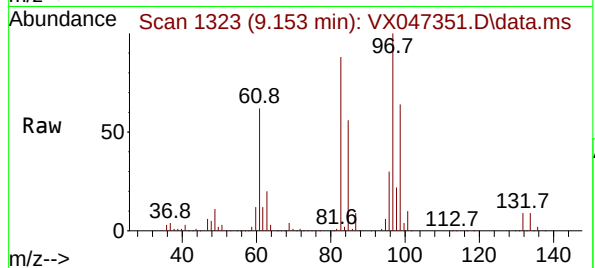
99 64.0 51.2 76.8

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#56

Ethyl methacrylate

Concen: 58.164 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

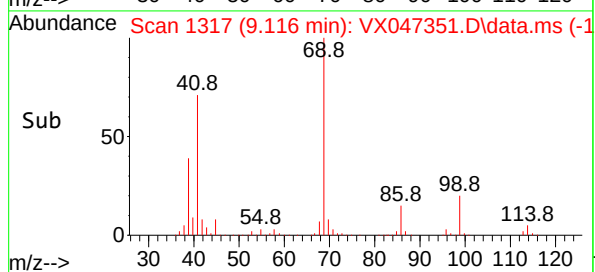
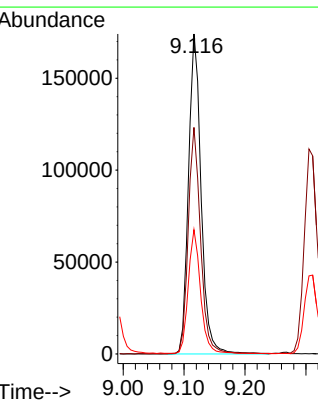
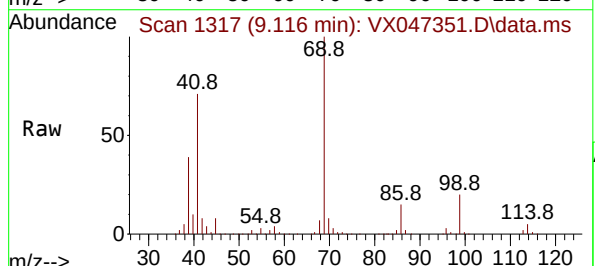
Tgt Ion: 69 Resp: 250221

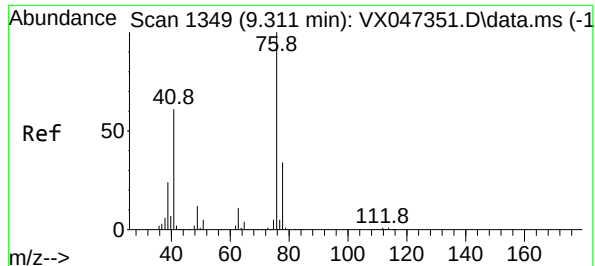
Ion Ratio Lower Upper

69 100

41 69.1 55.3 82.9

39 37.7 30.2 45.2





#57

1,3-Dichloropropane

Concen: 54.656 ug/l

RT: 9.311 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 27175

Ion Ratio Lower Upper

76 100

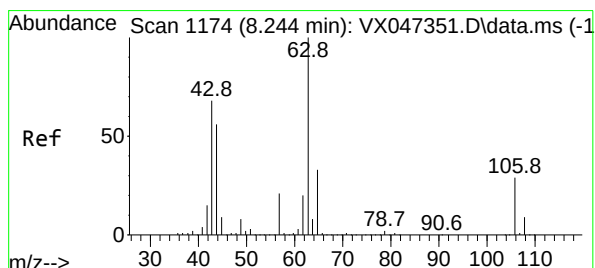
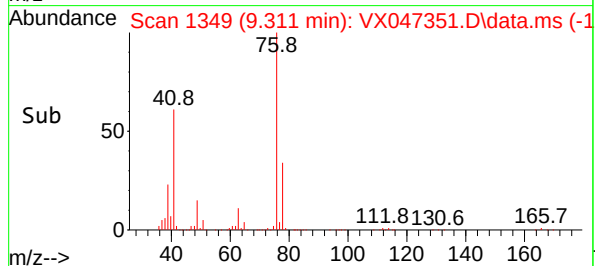
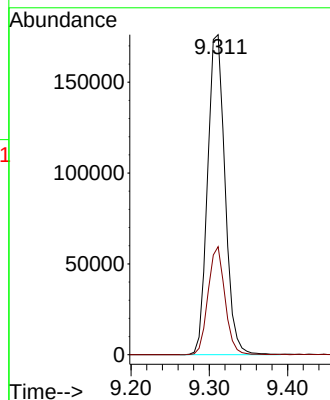
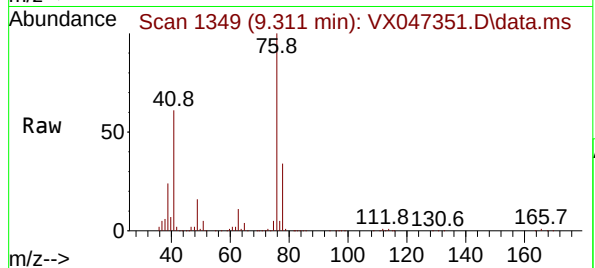
78 32.7 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 269.738 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047351.D

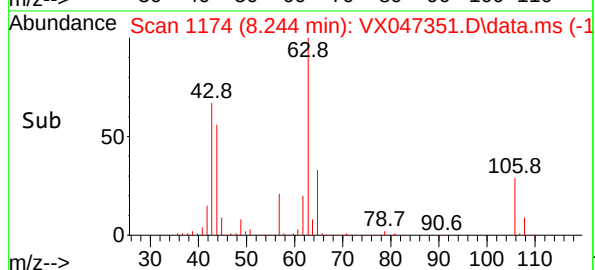
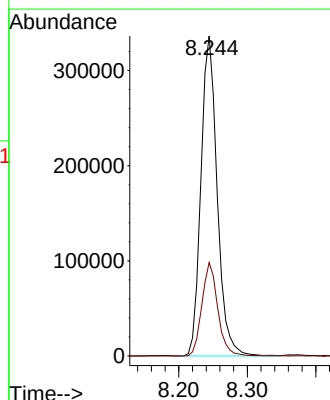
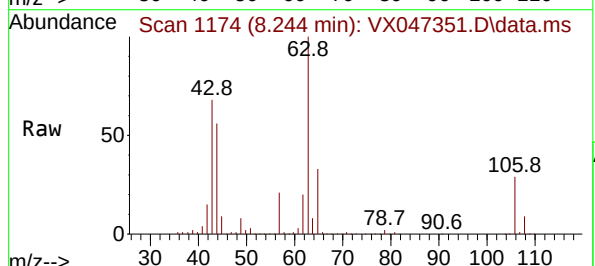
Acq: 15 Aug 2025 10:22

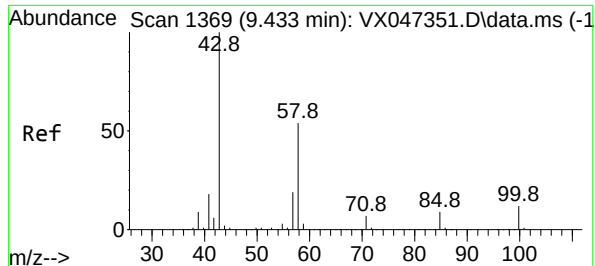
Tgt Ion: 63 Resp: 555513

Ion Ratio Lower Upper

63 100

106 28.5 22.8 34.2





#59

2-Hexanone

Concen: 285.099 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 703268

Ion Ratio Lower Upper

43 100

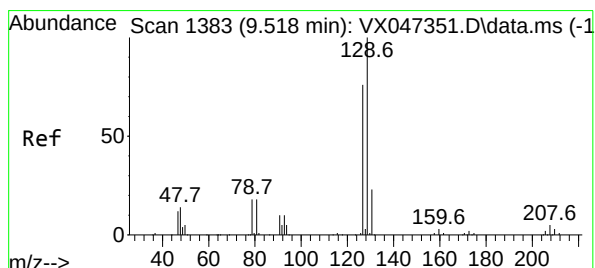
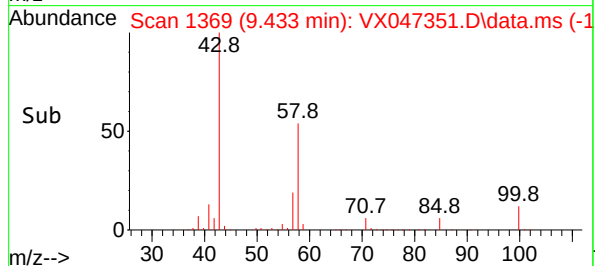
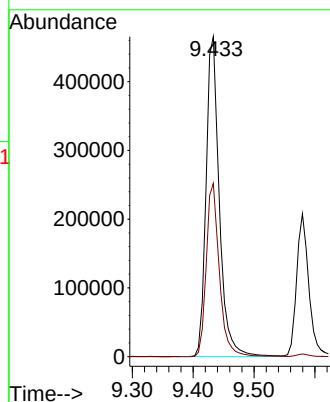
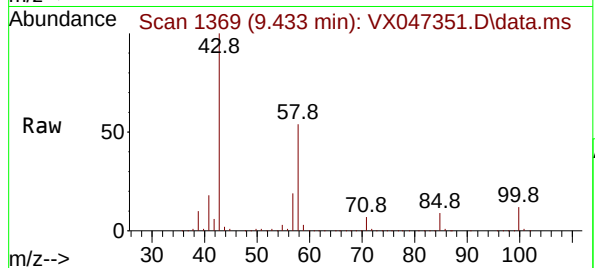
58 53.8 26.9 80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#60

Dibromochloromethane

Concen: 54.326 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047351.D

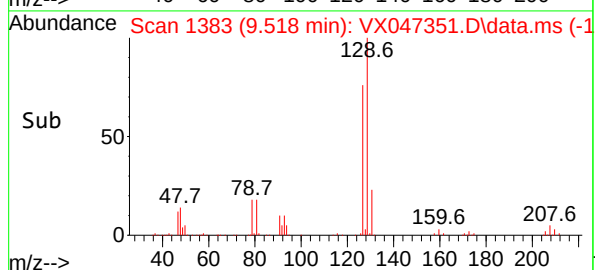
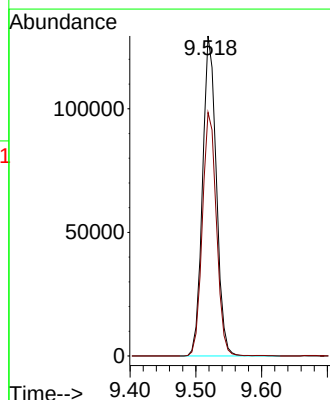
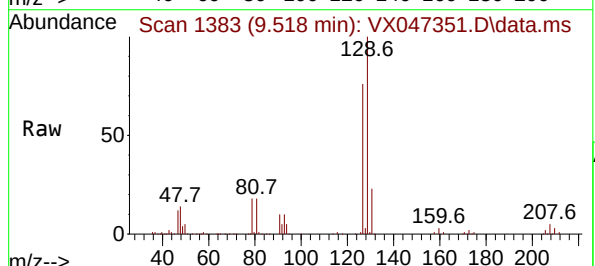
Acq: 15 Aug 2025 10:22

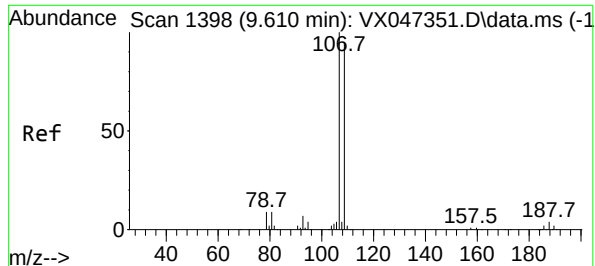
Tgt Ion:129 Resp: 188384

Ion Ratio Lower Upper

129 100

127 77.7 38.9 116.6





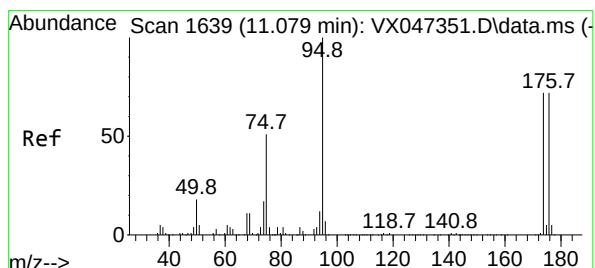
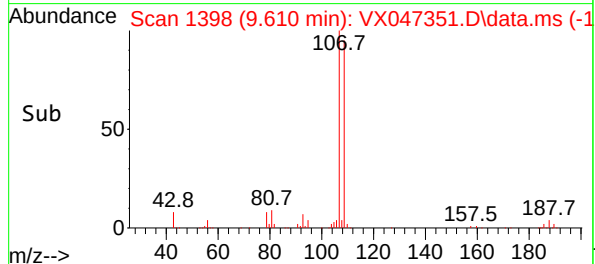
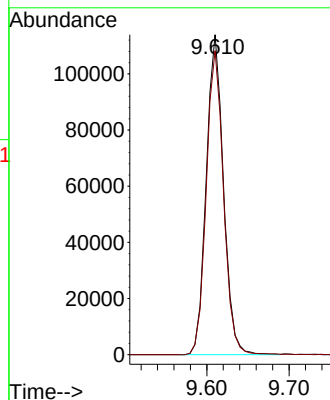
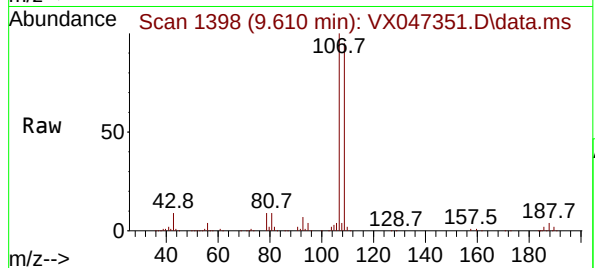
#61
1,2-Dibromoethane
Concen: 55.095 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 165776
Ion Ratio Lower Upper
107 100
109 95.2 76.2 114.2

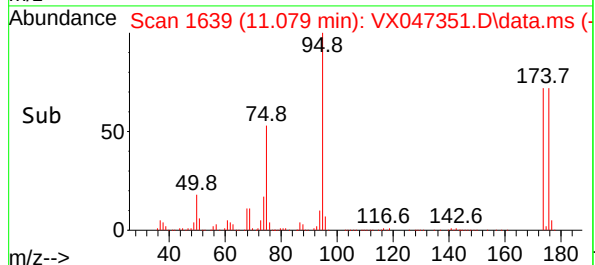
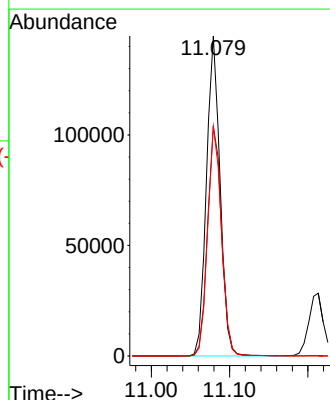
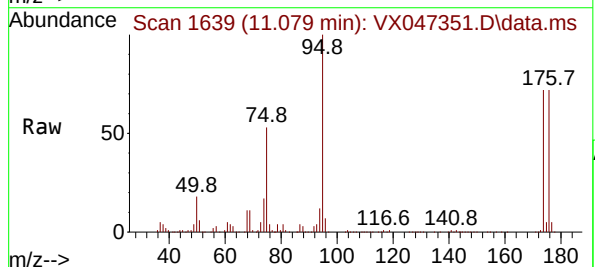
Manual Integrations
APPROVED

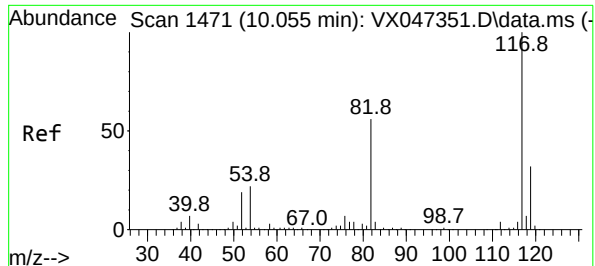
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#62
4-Bromofluorobenzene
Concen: 50.050 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 95 Resp: 173764
Ion Ratio Lower Upper
95 100
174 74.0 0.0 148.0
176 72.7 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

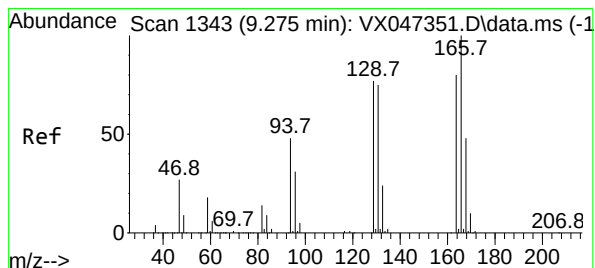
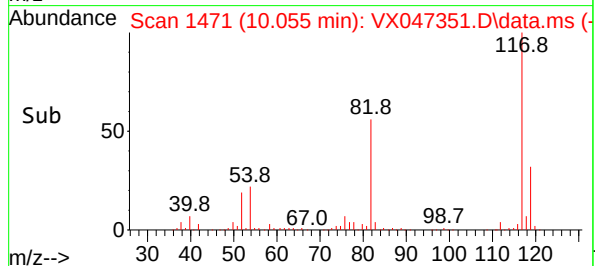
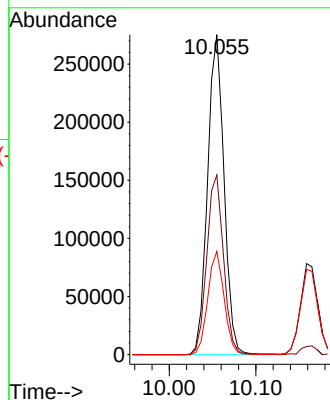
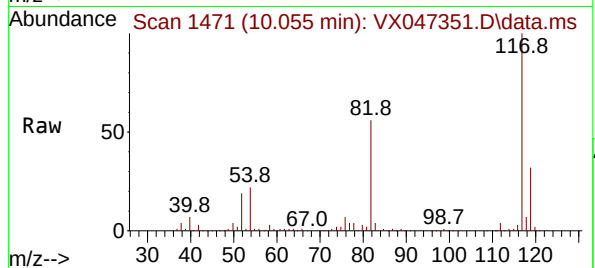
VSTDICCC050

Tgt Ion:117	Resp: 363128
Ion Ratio	Lower Upper
117 100	
82 56.2	45.0 67.4
119 32.3	25.8 38.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#64

Tetrachloroethene

Concen: 54.962 ug/l

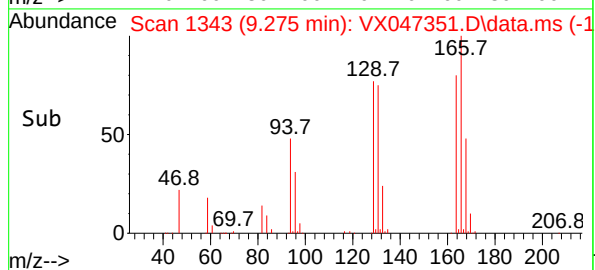
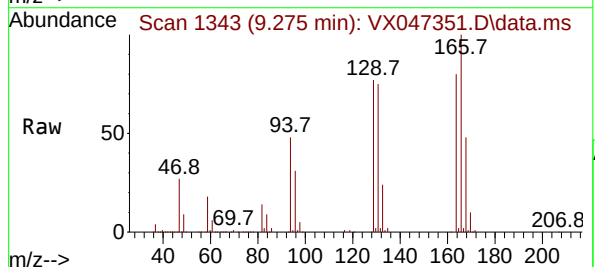
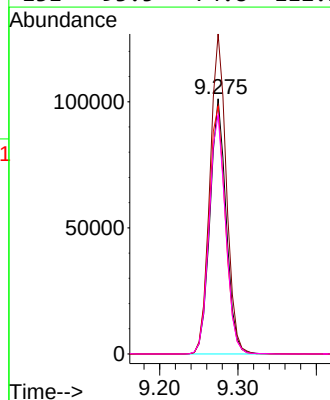
RT: 9.275 min Scan# 1343

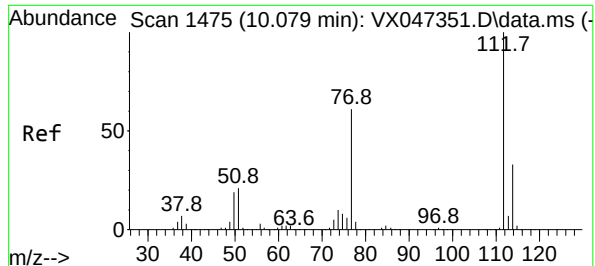
Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Tgt Ion:164	Resp: 144361
Ion Ratio	Lower Upper
164 100	
166 125.4	100.3 150.5
129 97.1	77.7 116.5
131 93.5	74.8 112.2





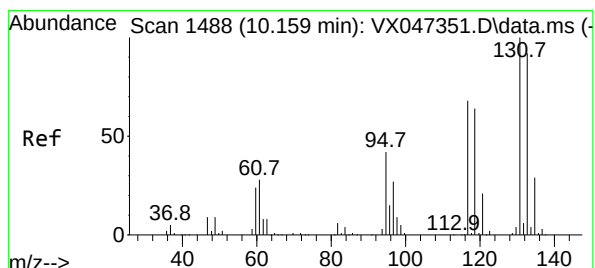
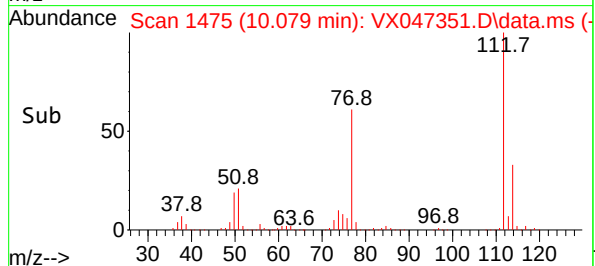
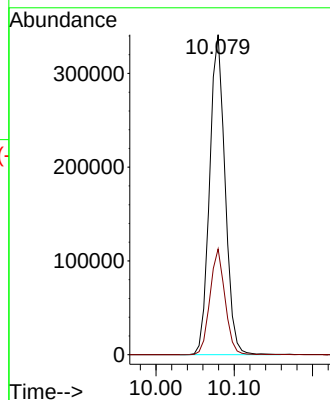
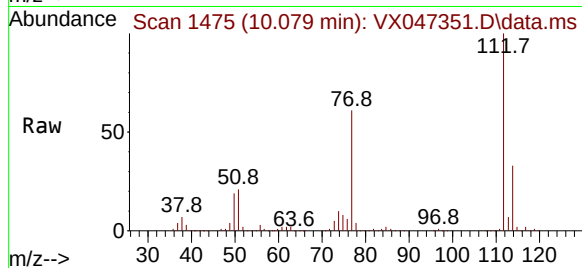
#65
Chlorobenzene
Concen: 54.119 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 467009
Ion Ratio Lower Upper
112 100
114 33.0 26.4 39.6

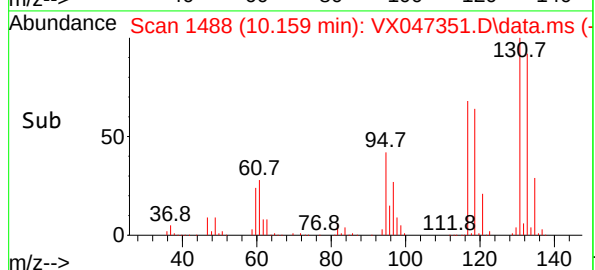
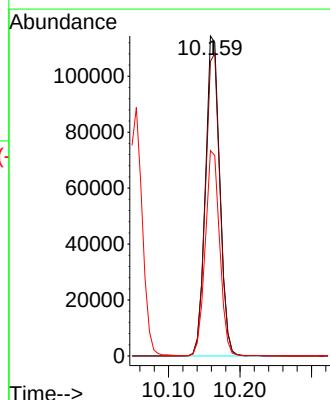
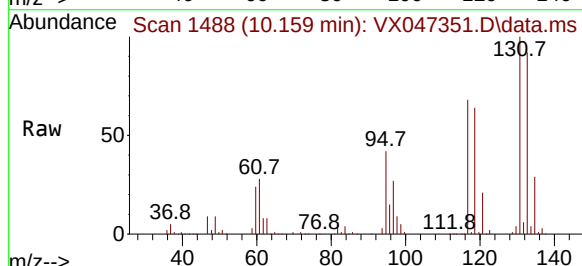
Manual Integrations
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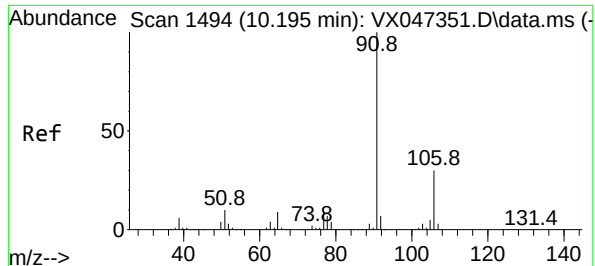
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 54.954 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion:131 Resp: 160305
Ion Ratio Lower Upper
131 100
133 95.3 47.6 142.9
119 64.5 32.3 96.8





#67

Ethyl Benzene

Concen: 55.667 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 82678

Ion Ratio Lower Upper

91 100

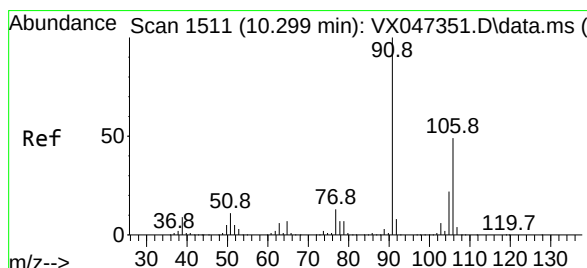
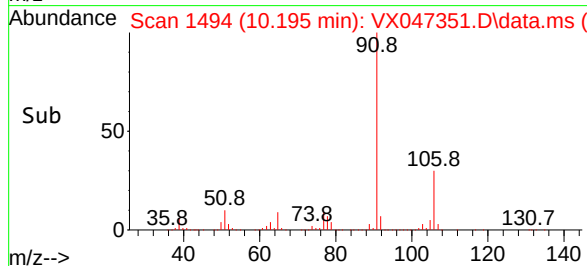
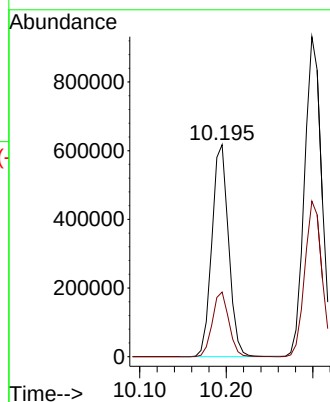
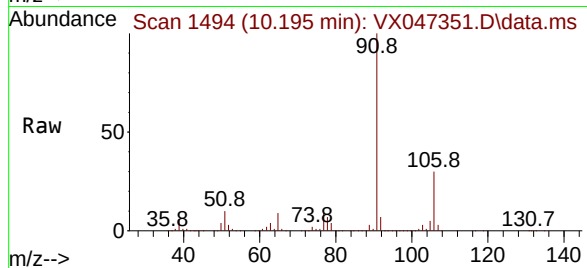
106 30.5 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#68

m/p-Xylenes

Concen: 112.475 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX047351.D

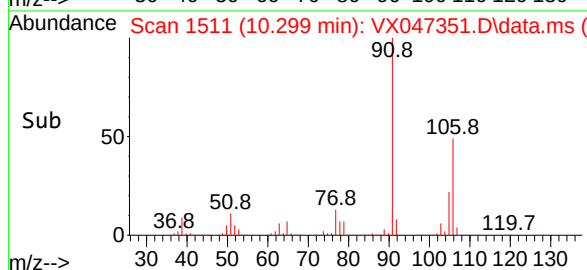
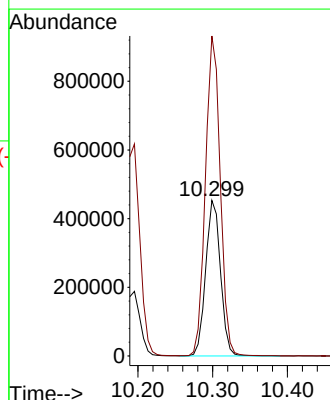
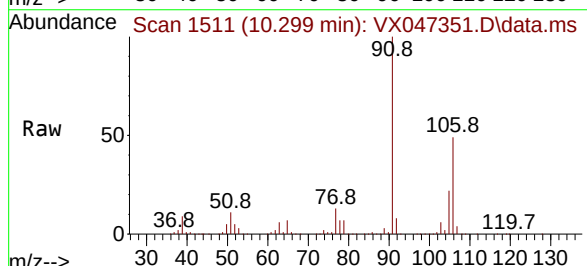
Acq: 15 Aug 2025 10:22

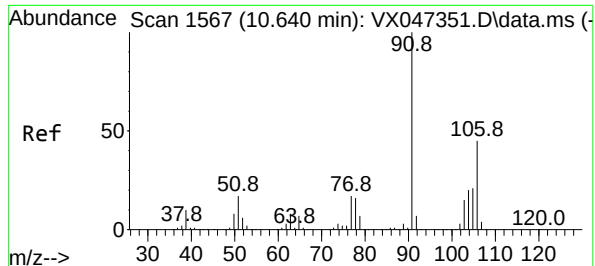
Tgt Ion:106 Resp: 622895

Ion Ratio Lower Upper

106 100

91 205.9 164.7 247.1





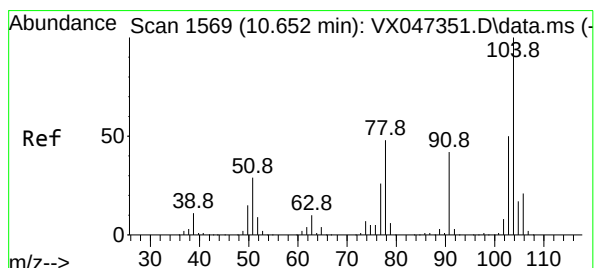
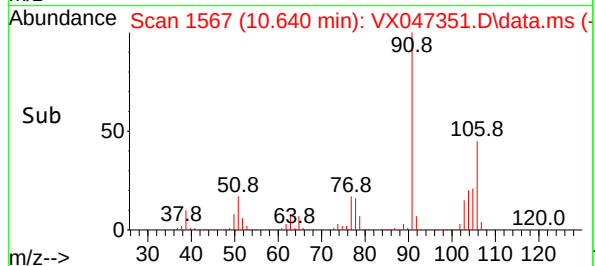
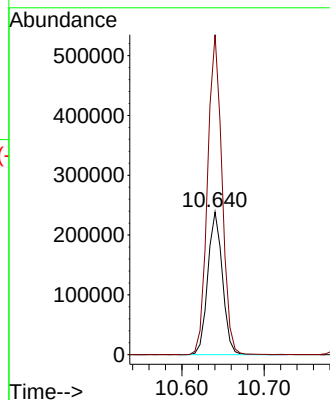
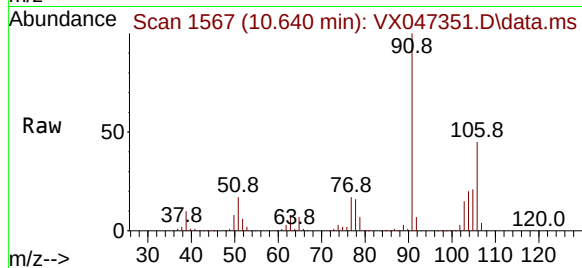
#69
o-Xylene
Concen: 55.407 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 295290
Ion Ratio Lower Upper
106 100
91 221.2 110.6 331.8

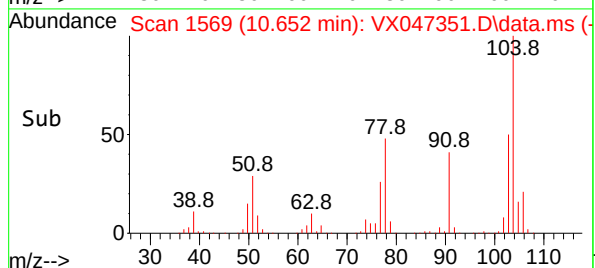
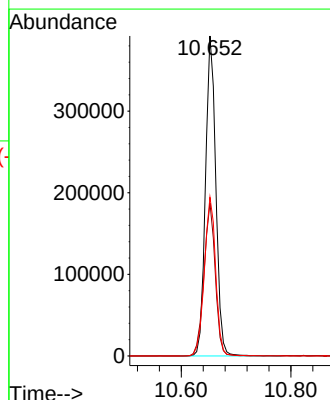
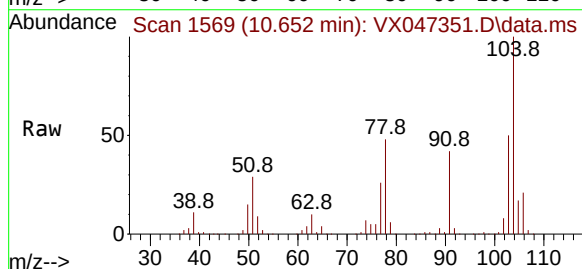
Manual Integrations
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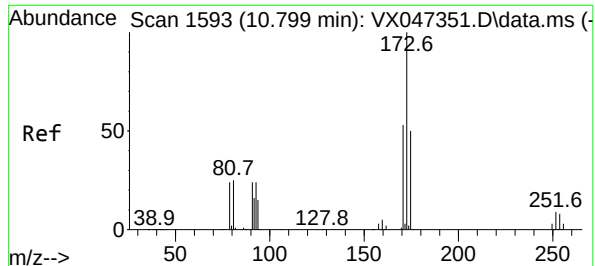
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#70
Styrene
Concen: 56.883 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

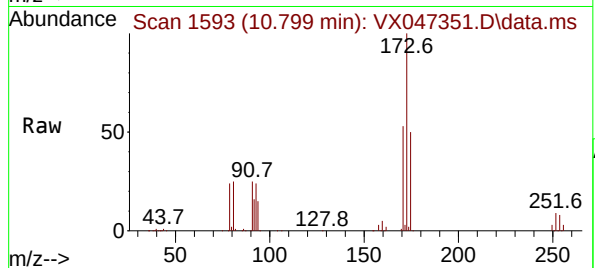
Tgt Ion:104 Resp: 512239
Ion Ratio Lower Upper
104 100
78 52.3 41.8 62.8
103 54.5 43.6 65.4





#71
Bromoform
Concen: 55.530 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

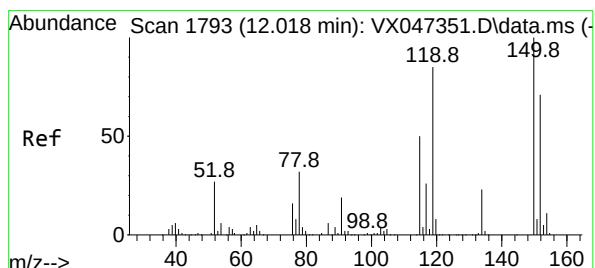
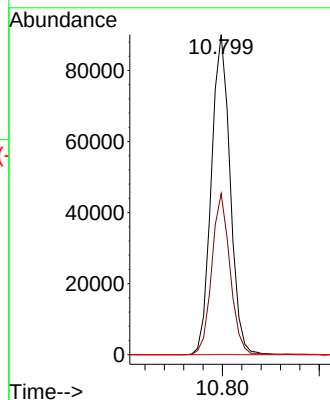
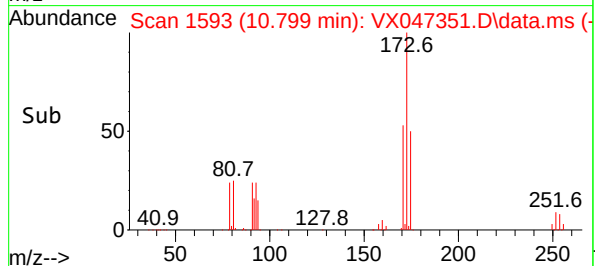
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



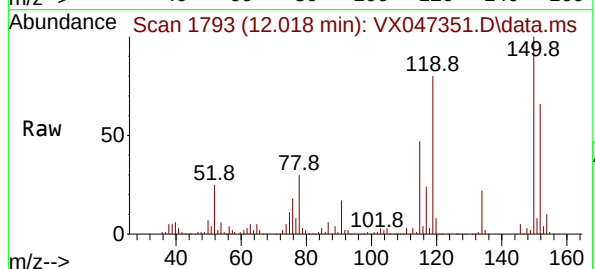
Tgt Ion:173 Resp: 121692
Ion Ratio Lower Upper
173 100
175 48.9 24.4 73.4
254 0.1 0.1 0.1

Manual Integrations
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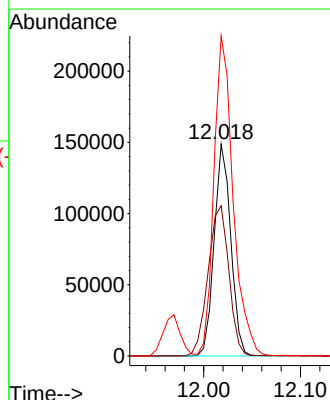
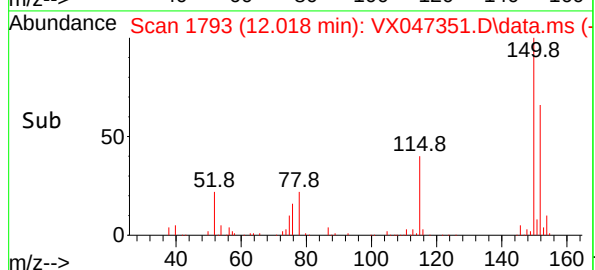
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

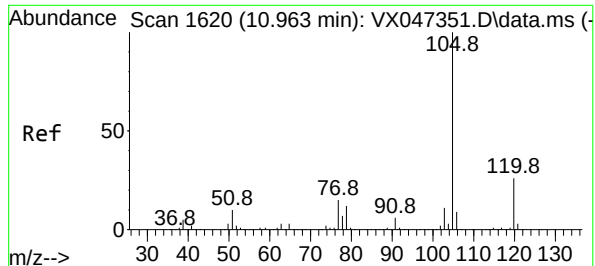


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22



Tgt Ion:152 Resp: 177366
Ion Ratio Lower Upper
152 100
115 89.2 44.6 133.8
150 174.9 0.0 349.8





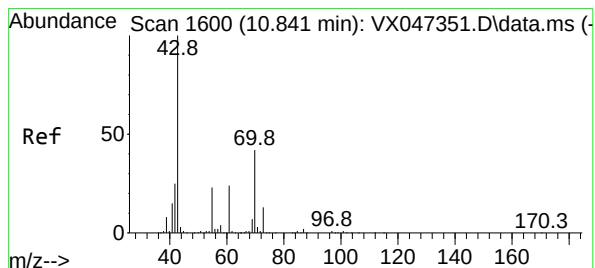
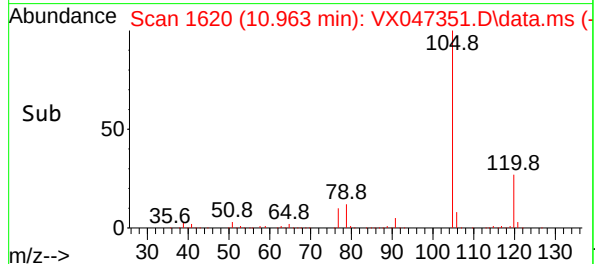
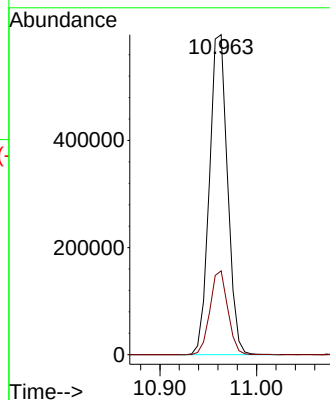
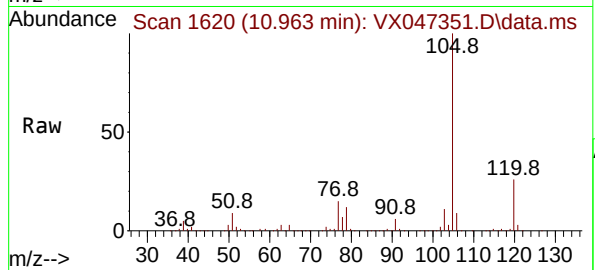
#73
Isopropylbenzene
Concen: 56.210 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 105 Resp: 78018
Ion Ratio Lower Upper
105 100
120 25.7 12.9 38.6

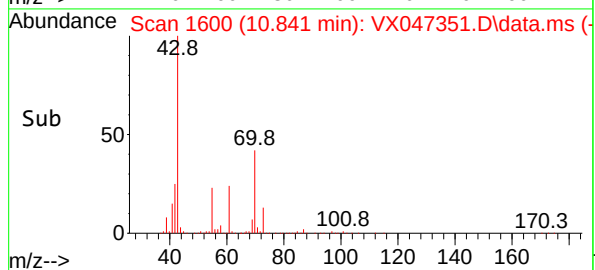
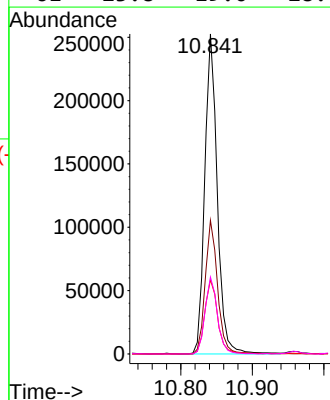
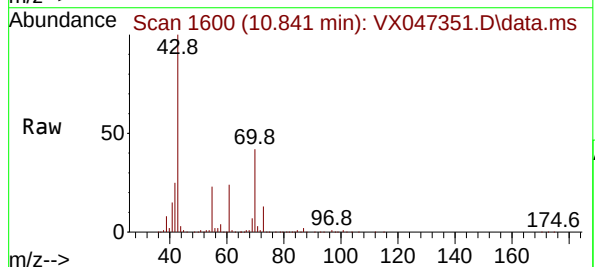
Manual Integrations
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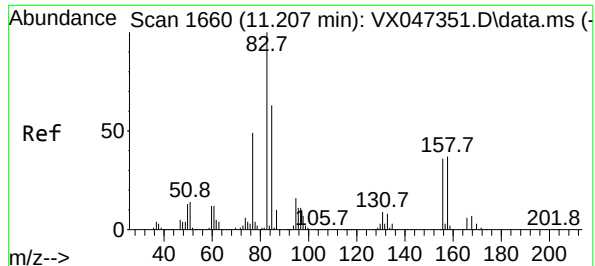
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#74
N-ethyl acetate
Concen: 58.194 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 43 Resp: 306720
Ion Ratio Lower Upper
43 100
70 41.4 33.1 49.7
55 23.8 19.0 28.6
61 23.8 19.0 28.6





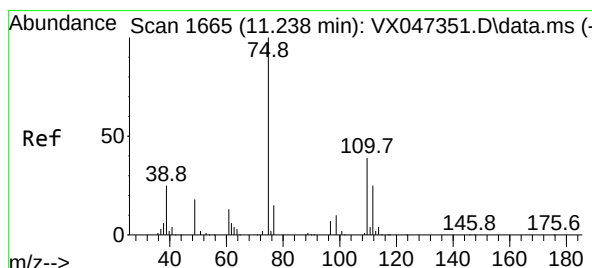
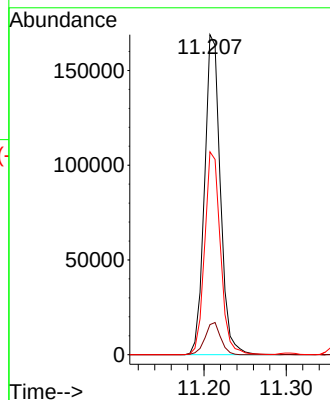
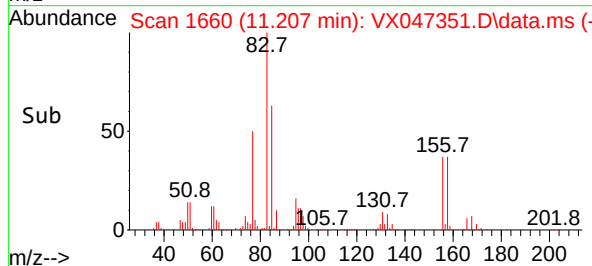
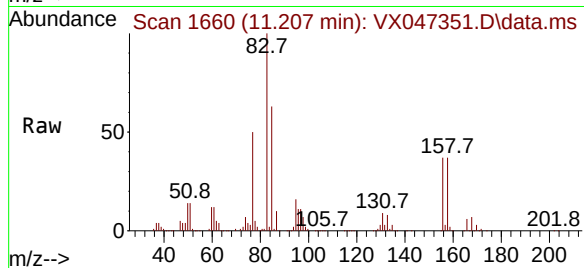
#75
1,1,2,2-Tetrachloroethane
Concen: 55.228 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 22506
Ion Ratio Lower Upper
83 100
131 10.0 5.0 15.0
85 63.4 31.7 95.1

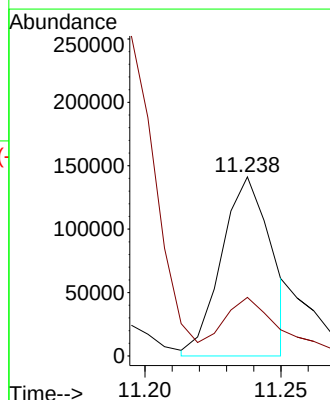
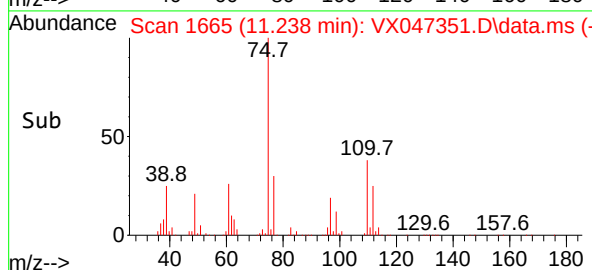
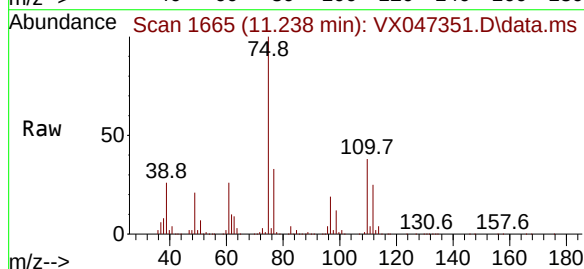
Manual Integrations
APPROVED

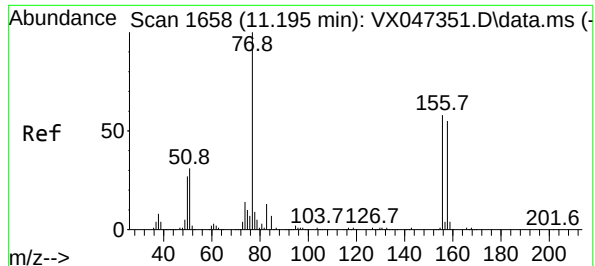
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#76
1,2,3-Trichloropropane
Concen: 55.266 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 75 Resp: 179785
Ion Ratio Lower Upper
75 100
77 38.8 19.4 58.2





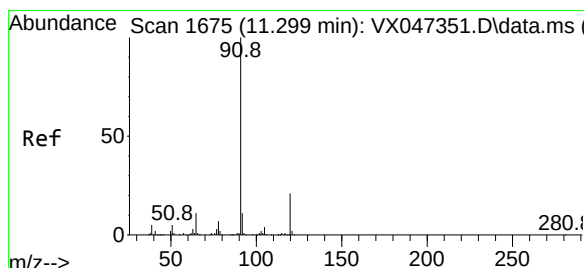
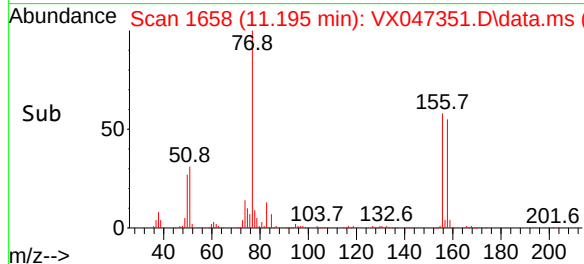
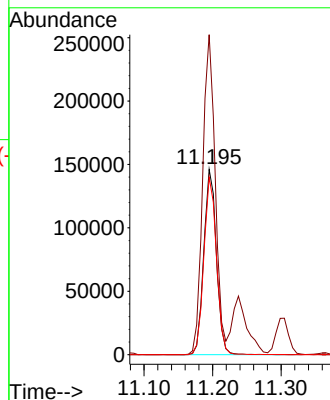
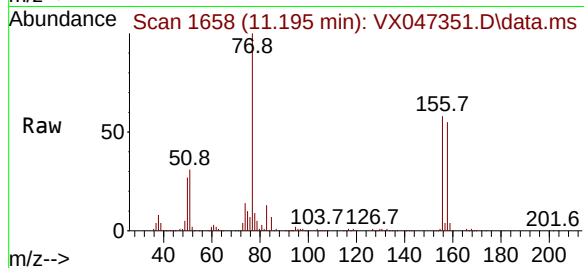
#77
Bromobenzene
Concen: 55.124 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 18683
Ion Ratio Lower Upper
156 100
77 172.6 86.3 258.9
158 96.1 48.0 144.2

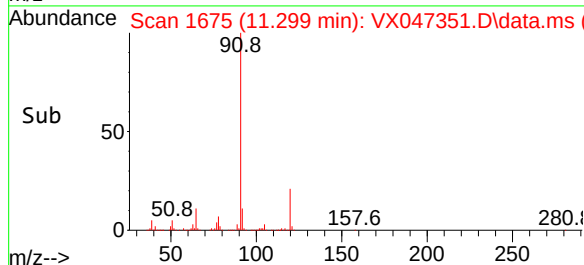
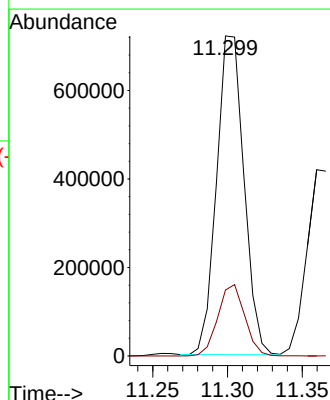
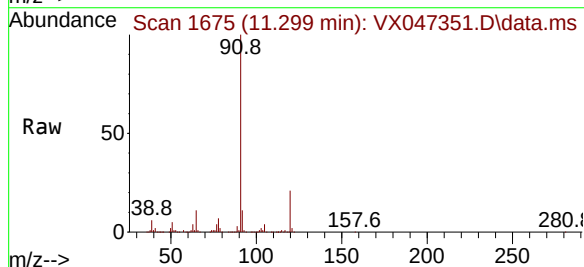
Manual Integrations
APPROVED

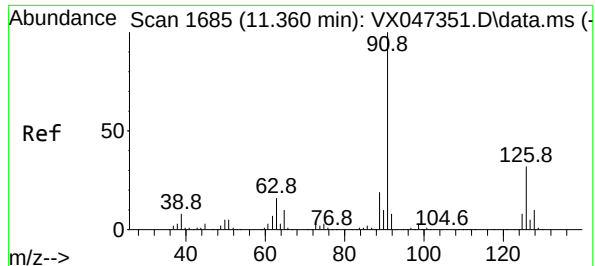
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#78
n-propylbenzene
Concen: 55.413 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 91 Resp: 918573
Ion Ratio Lower Upper
91 100
120 22.0 11.0 33.0





#79

2-Chlorotoluene

Concen: 54.793 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 549070

Ion Ratio Lower Upper

91 100

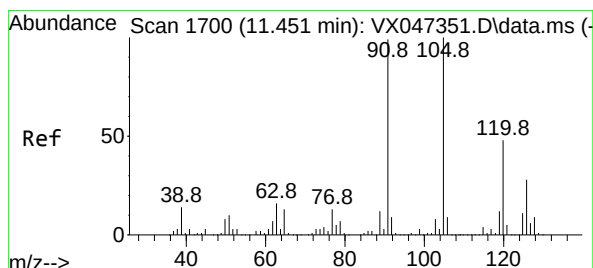
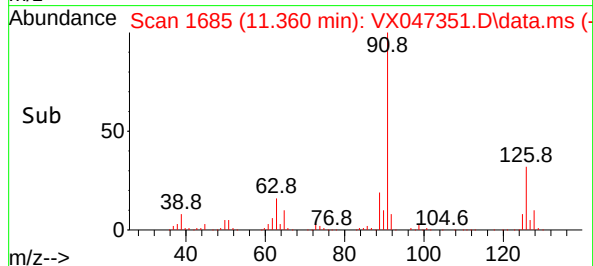
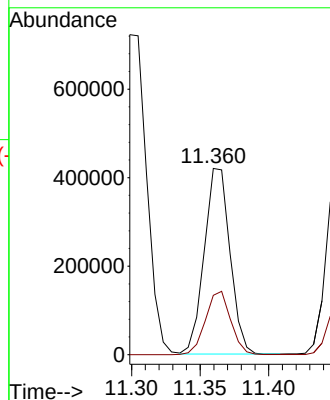
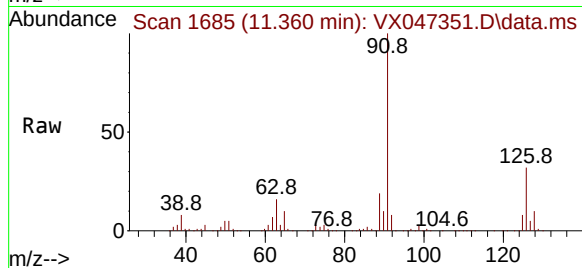
126 33.4 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 55.720 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX047351.D

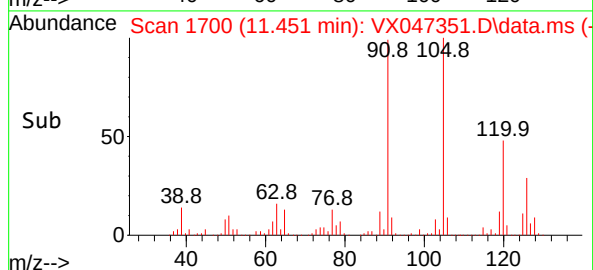
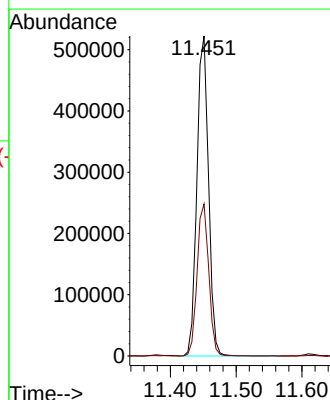
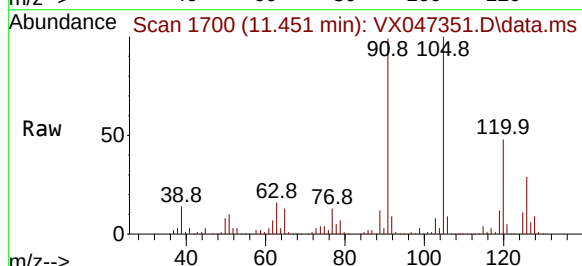
Acq: 15 Aug 2025 10:22

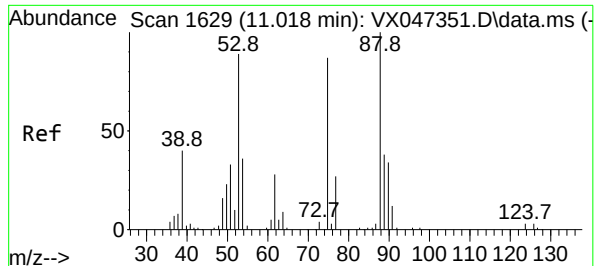
Tgt Ion:105 Resp: 636323

Ion Ratio Lower Upper

105 100

120 47.8 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 47.608 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

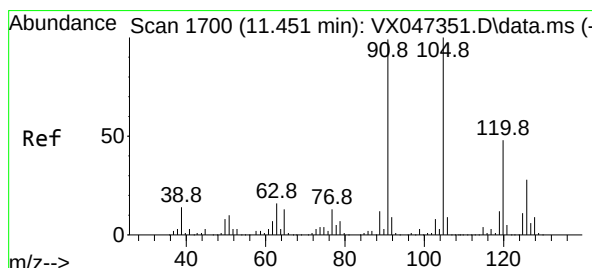
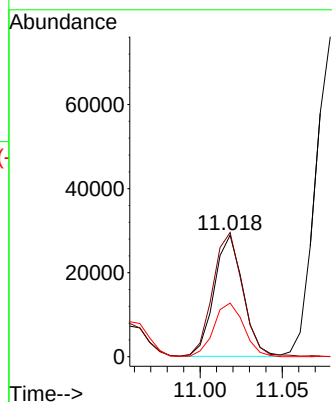
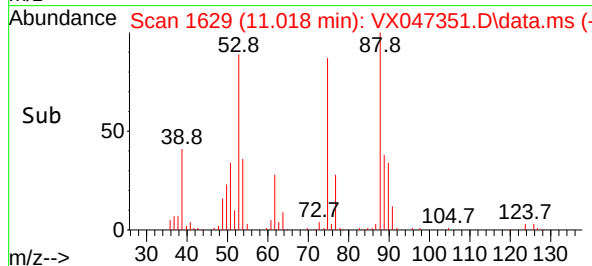
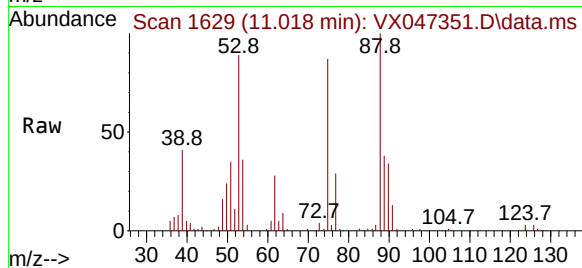
VSTDICCC050

Tgt Ion:	75	Resp:	3529
Ion	Ratio	Lower	Upper
75	100		
53	106.5	85.2	127.8
89	45.9	36.7	55.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#82

4-Chlorotoluene

Concen: 54.505 ug/l

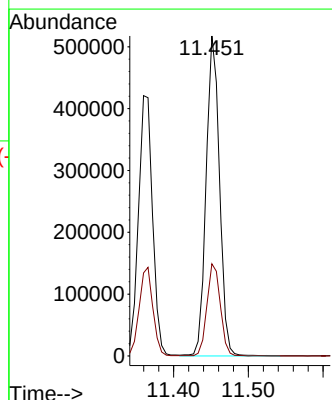
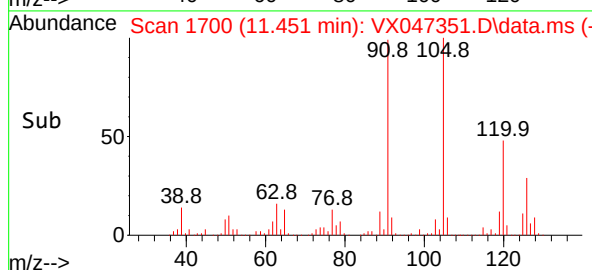
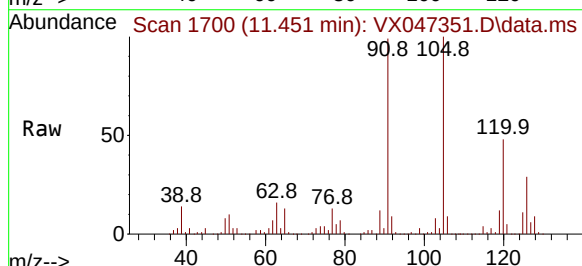
RT: 11.451 min Scan# 1700

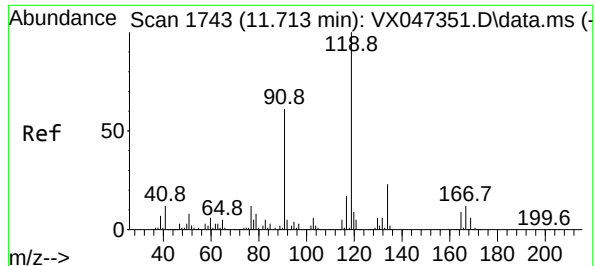
Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Tgt Ion:	91	Resp:	643830
Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.4	43.0





#83

tert-Butylbenzene

Concen: 56.344 ug/l

RT: 11.713 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 64195

Ion Ratio Lower Upper

119 100

91 58.3 29.1 87.4

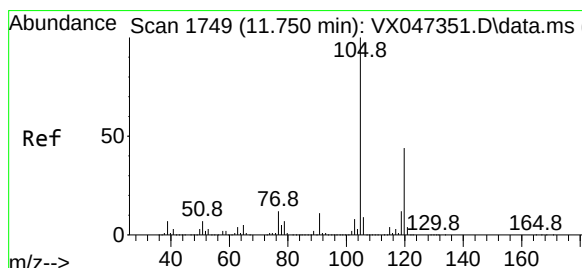
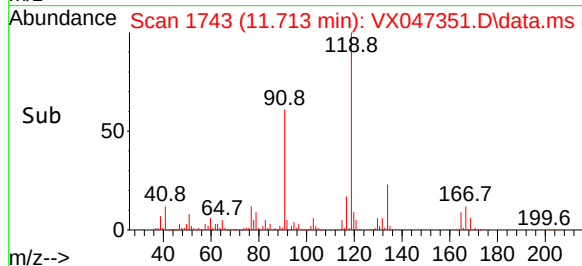
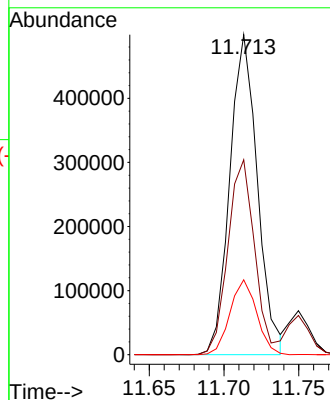
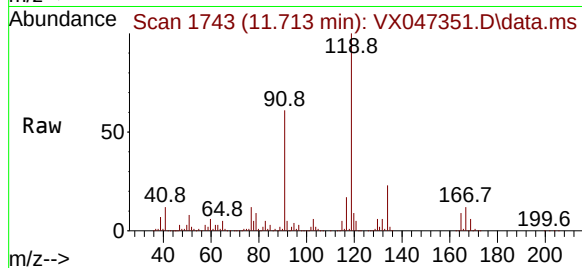
134 22.6 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 56.614 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047351.D

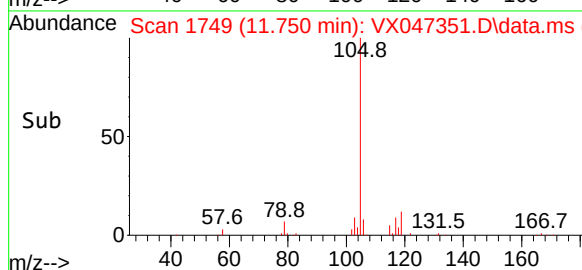
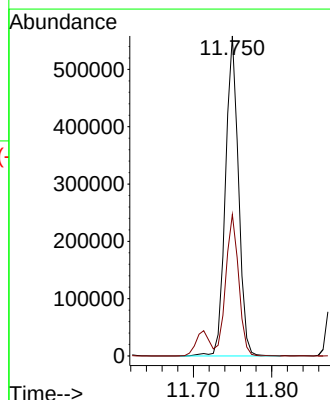
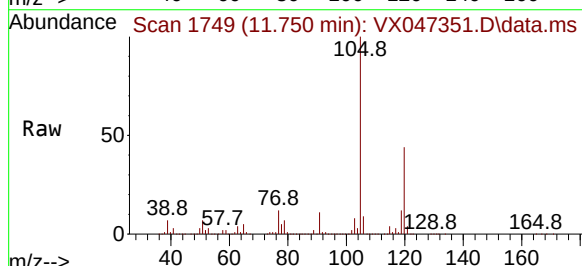
Acq: 15 Aug 2025 10:22

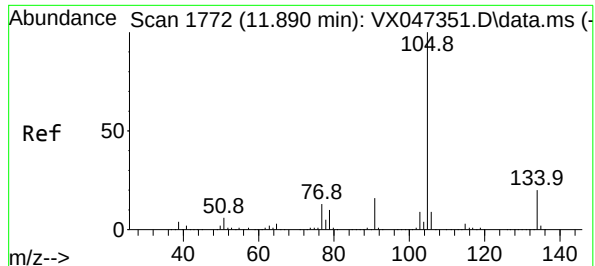
Tgt Ion:105 Resp: 646548

Ion Ratio Lower Upper

105 100

120 43.8 21.9 65.7





#85

sec-Butylbenzene

Concen: 55.470 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 78334

Ion Ratio Lower Upper

105 100

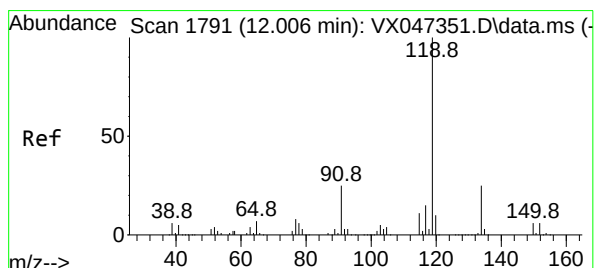
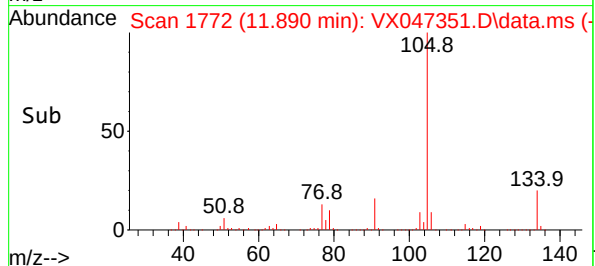
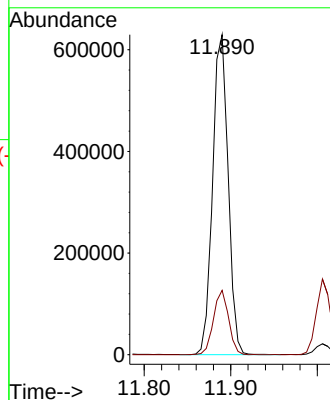
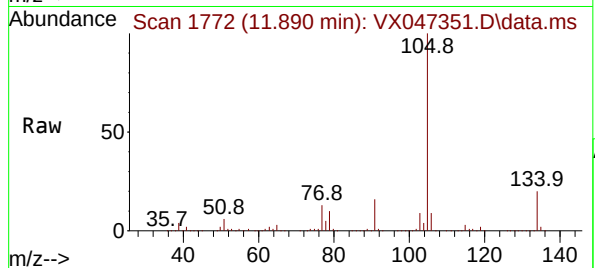
134 19.7 9.8 29.5

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#86

p-Isopropyltoluene

Concen: 55.303 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

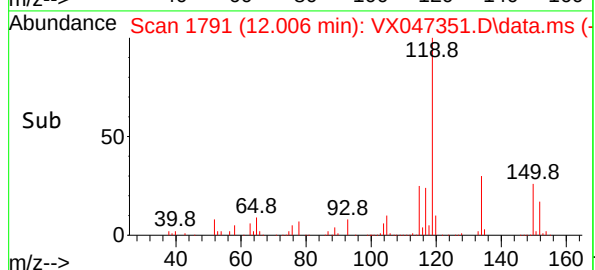
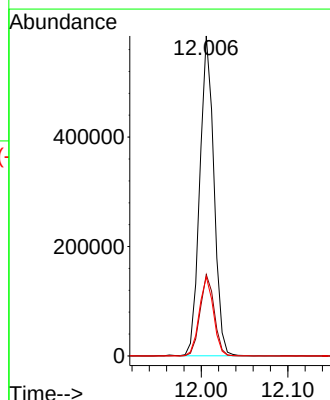
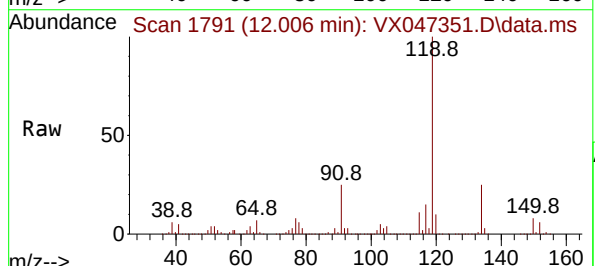
Tgt Ion:119 Resp: 660872

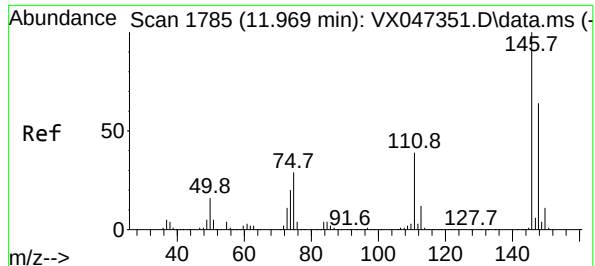
Ion Ratio Lower Upper

119 100

134 25.6 12.8 38.4

91 24.9 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 54.320 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 351718

Ion Ratio Lower Upper

146 100

111 41.2 20.6 61.8

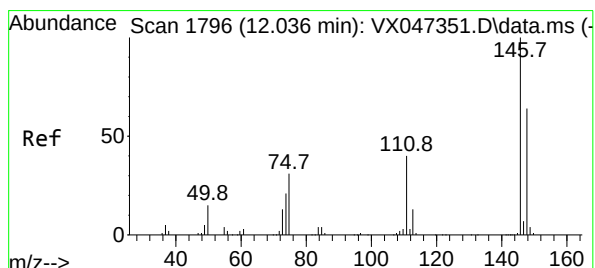
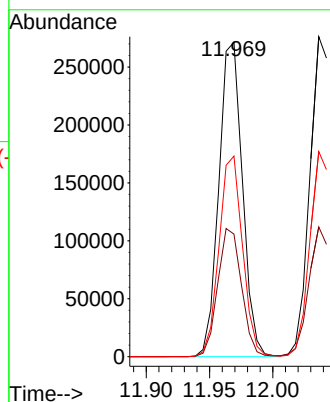
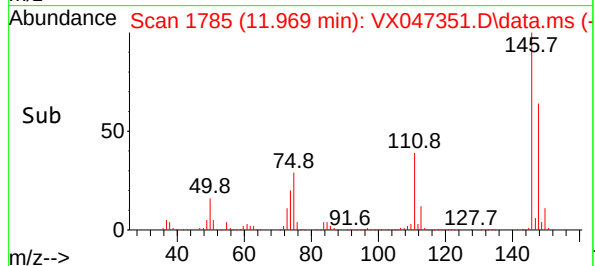
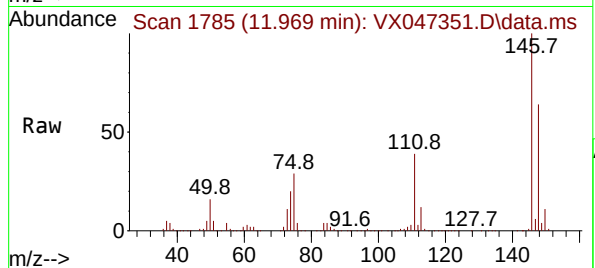
148 63.7 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#88

1,4-Dichlorobenzene

Concen: 52.886 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

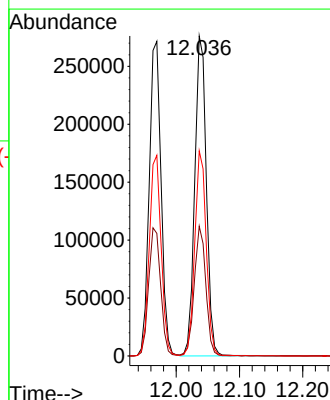
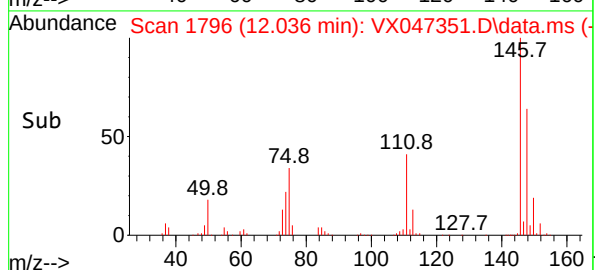
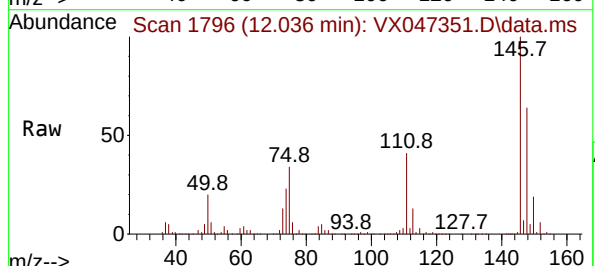
Tgt Ion:146 Resp: 352196

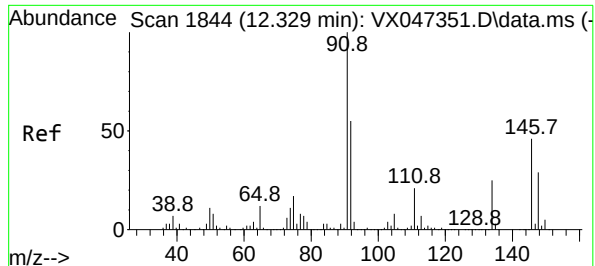
Ion Ratio Lower Upper

146 100

111 40.8 20.4 61.2

148 63.4 31.7 95.1





#89

n-Butylbenzene

Concen: 54.957 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 610840

Ion Ratio Lower Upper

91 100

92 54.3 27.2 81.5

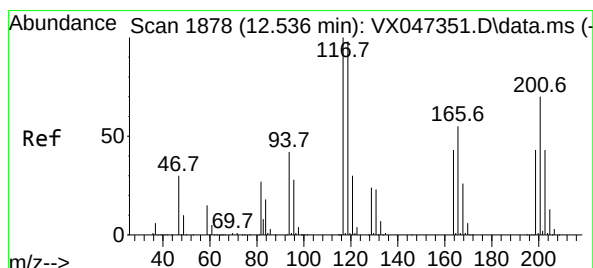
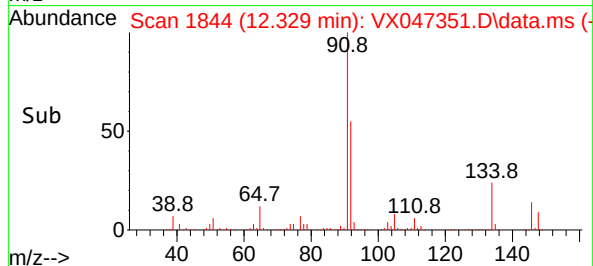
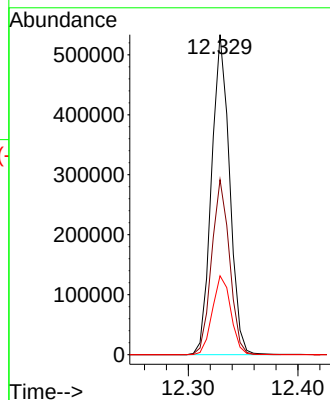
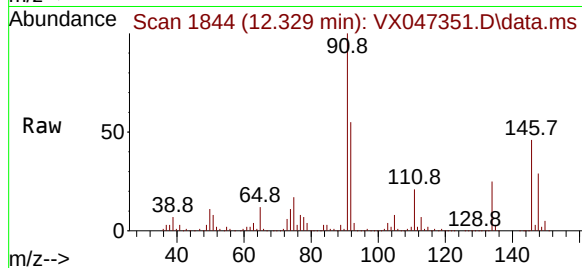
134 25.2 12.6 37.8

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#90

Hexachloroethane

Concen: 55.228 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047351.D

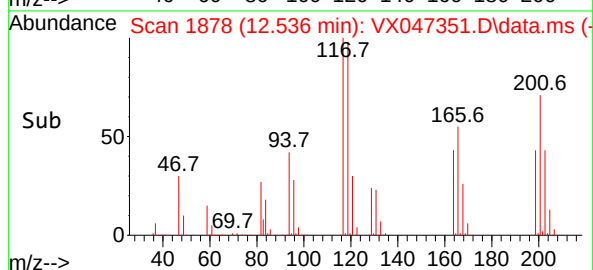
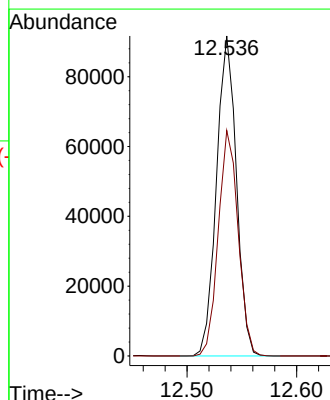
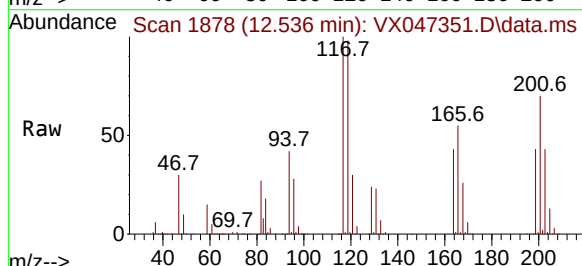
Acq: 15 Aug 2025 10:22

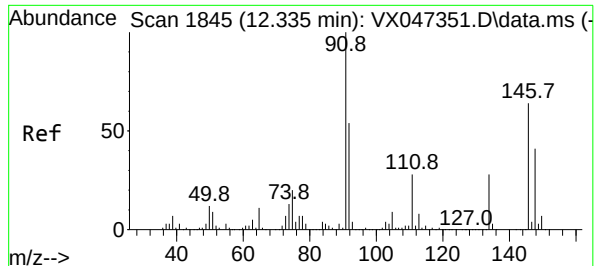
Tgt Ion:117 Resp: 115780

Ion Ratio Lower Upper

117 100

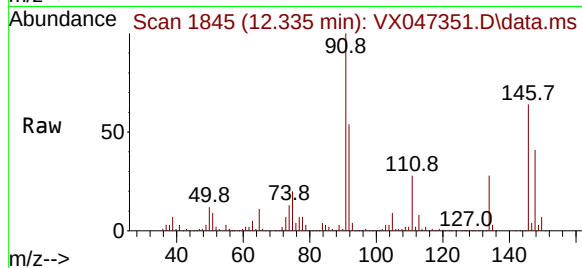
201 70.2 35.1 105.3





#91
1,2-Dichlorobenzene
Concen: 53.742 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

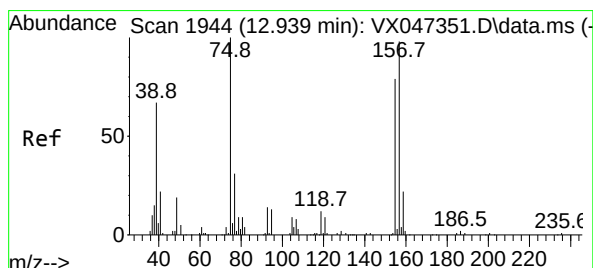
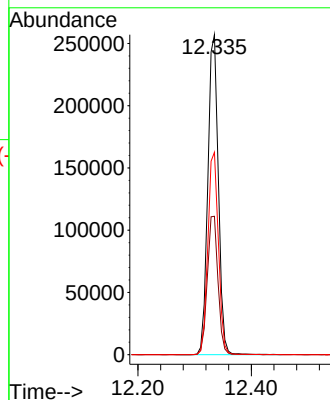
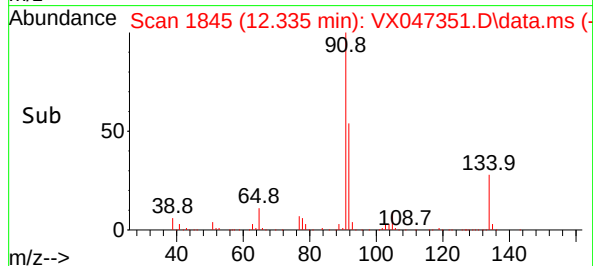
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 33028
Ion Ratio Lower Upper
146 100
111 44.1 22.1 66.1
148 63.7 31.9 95.5

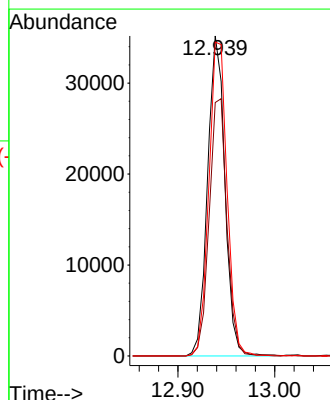
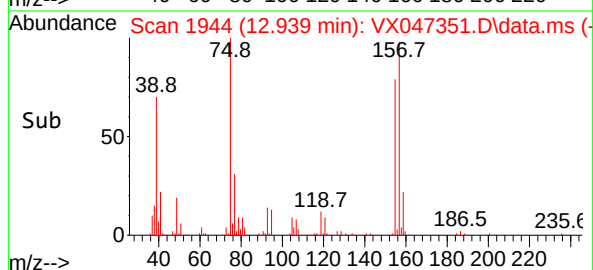
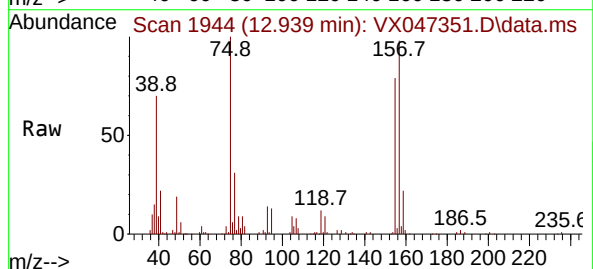
Manual Integrations
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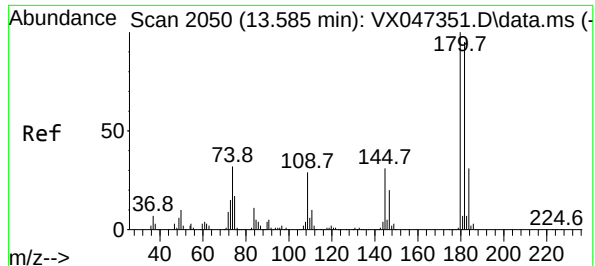
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 55.654 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

Tgt Ion: 75 Resp: 43861
Ion Ratio Lower Upper
75 100
155 82.5 41.3 123.7
157 103.0 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 53.111 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 218820

Ion Ratio Lower Upper

180 100

182 96.3 48.1 144.4

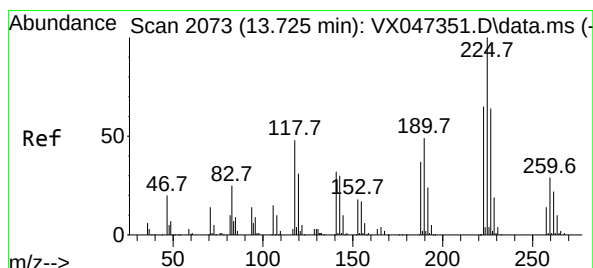
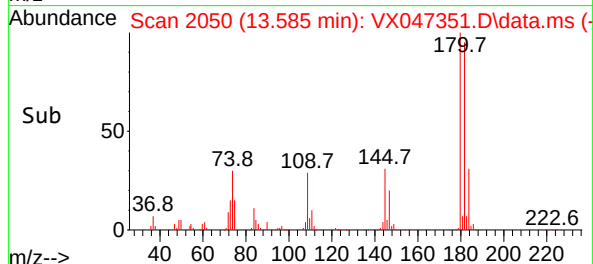
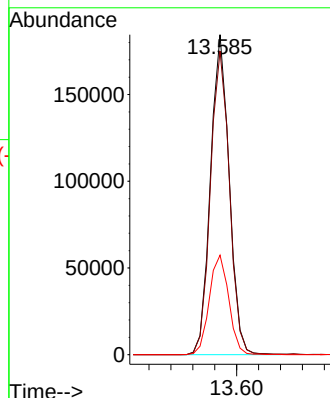
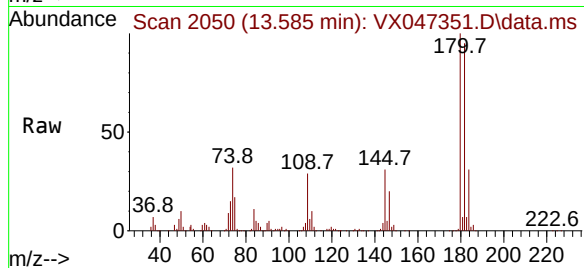
145 32.3 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#94

Hexachlorobutadiene

Concen: 48.921 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX047351.D

Acq: 15 Aug 2025 10:22

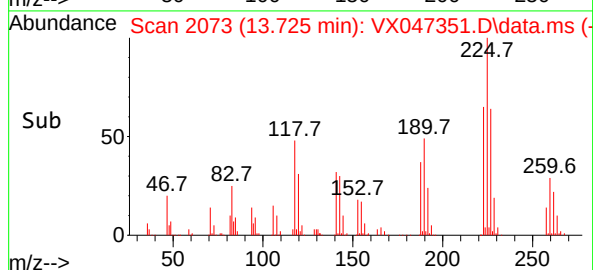
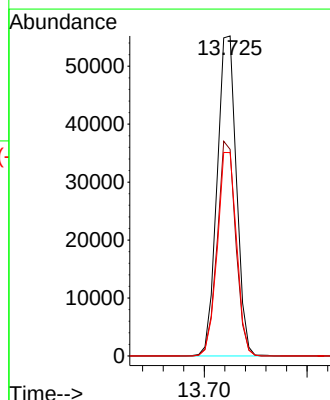
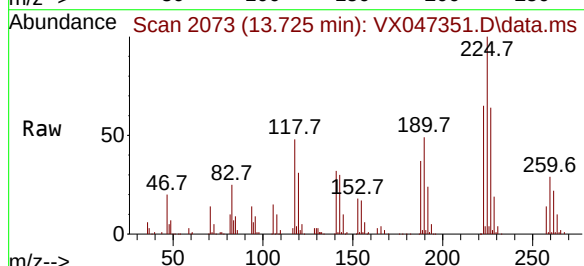
Tgt Ion:225 Resp: 71744

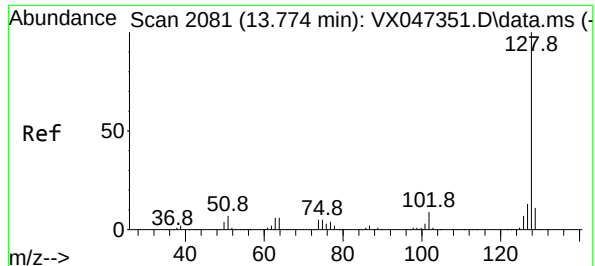
Ion Ratio Lower Upper

225 100

223 64.4 32.2 96.6

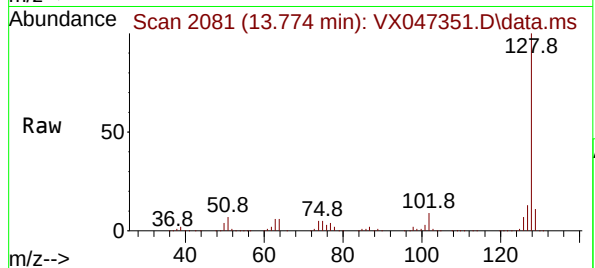
227 63.3 31.6 95.0





#95
Naphthalene
Concen: 56.930 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22

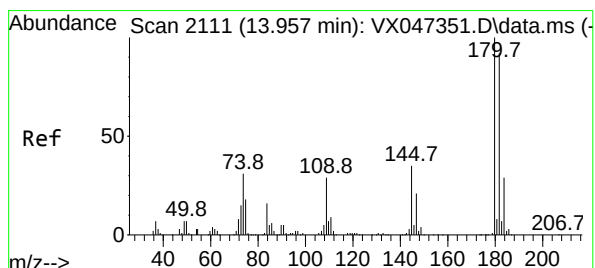
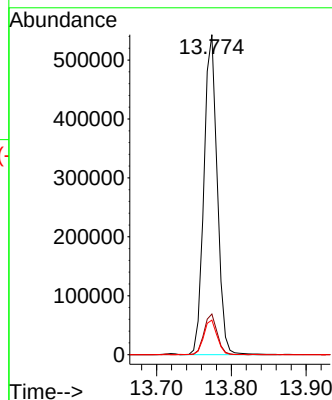
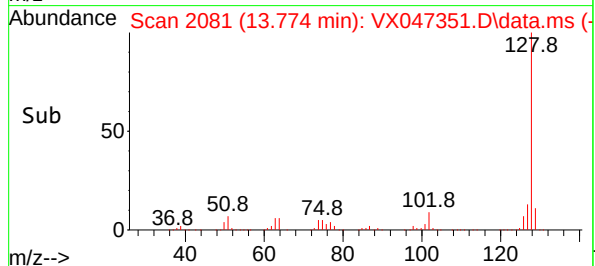
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



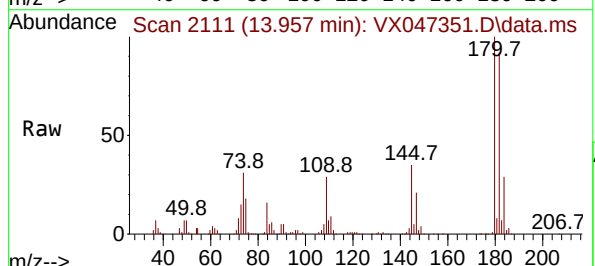
Tgt Ion:128 Resp: 67030
Ion Ratio Lower Upper
128 100
127 12.6 10.1 15.1
129 10.9 8.7 13.1

Manual Integrations
APPROVED

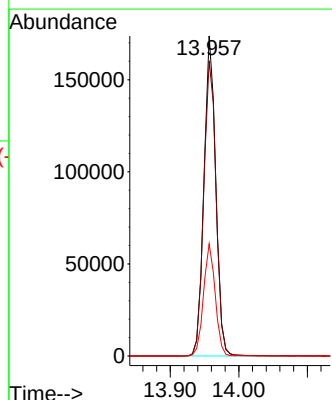
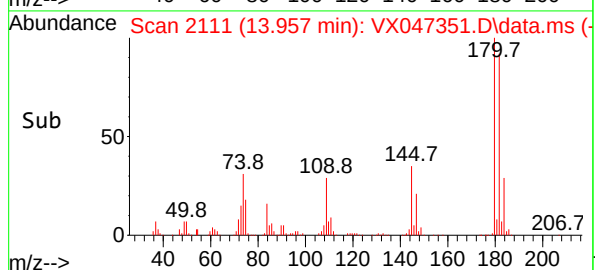
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 53.605 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047351.D
Acq: 15 Aug 2025 10:22



Tgt Ion:180 Resp: 208179
Ion Ratio Lower Upper
180 100
182 96.1 48.0 144.2
145 34.8 17.4 52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047352.D
 Acq On : 15 Aug 2025 10:43
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 18 02:54:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	230991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	391443	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	345492	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	163776	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	345087	106.746	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 213.500%#			
35) Dibromofluoromethane	5.397	113	276832	108.967	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 217.940%#			
50) Toluene-d8	8.653	98	975414	107.419	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 214.840%#			
62) 4-Bromofluorobenzene	11.079	95	353668	105.546	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 211.100%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	309782	105.204	ug/l	99
3) Chloromethane	1.313	50	261885	98.864	ug/l	96
4) Vinyl Chloride	1.392	62	336909	101.331	ug/l	97
5) Bromomethane	1.624	94	142644	106.217	ug/l	96
6) Chloroethane	1.703	64	189413	93.112	ug/l	98
7) Trichlorofluoromethane	1.904	101	489572	99.548	ug/l	99
8) Diethyl Ether	2.148	74	171145	98.832	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.349	101	288420	101.101	ug/l	99
10) Methyl Iodide	2.471	142	545687	111.619	ug/l	98
11) Tert butyl alcohol	2.971	59	143673	510.865	ug/l	99
12) 1,1-Dichloroethene	2.337	96	293450	100.899	ug/l	99
13) Acrolein	2.252	56	294322	495.763	ug/l	100
14) Allyl chloride	2.678	41	512225	101.402	ug/l	99
15) Acrylonitrile	3.081	53	691797	509.058	ug/l	100
16) Acetone	2.392	43	554774	456.549	ug/l	98
17) Carbon Disulfide	2.532	76	840388	95.757	ug/l	100
18) Methyl Acetate	2.715	43	318444	101.128	ug/l	100
19) Methyl tert-butyl Ether	3.129	73	906301	102.433	ug/l	98
20) Methylene Chloride	2.806	84	309183	96.088	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	302669	98.051	ug/l	99
22) Diisopropyl ether	3.776	45	1007141	100.865	ug/l	99
23) Vinyl Acetate	3.733	43	4206762	514.008	ug/l	99
24) 1,1-Dichloroethane	3.623	63	558936	99.034	ug/l	99
25) 2-Butanone	4.568	43	789816	496.288	ug/l	98
26) 2,2-Dichloropropane	4.489	77	434139	101.916	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	355238	98.806	ug/l	99
28) Bromochloromethane	4.910	49	258648	110.131	ug/l	99
29) Tetrahydrofuran	5.019	42	505709	491.640	ug/l	98
30) Chloroform	5.105	83	560984	97.394	ug/l	100
31) Cyclohexane	5.489	56	499975	96.100	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	499294	100.709	ug/l	99
36) 1,1-Dichloropropene	5.702	75	398144	99.278	ug/l	100
37) Ethyl Acetate	4.727	43	413279	99.265	ug/l	99
38) Carbon Tetrachloride	5.690	117	430061	98.132	ug/l	99
39) Methylcyclohexane	7.385	83	500907	100.134	ug/l	97
40) Benzene	6.050	78	1186760	98.866	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047352.D
 Acq On : 15 Aug 2025 10:43
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 18 02:54:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	191678	109.177	ug/l	95
42) 1,2-Dichloroethane	6.098	62	416430	97.940	ug/l	99
43) Isopropyl Acetate	6.348	43	624423	104.400	ug/l	100
44) Trichloroethene	7.135	130	304976	99.224	ug/l	98
45) 1,2-Dichloropropane	7.434	63	298616	99.300	ug/l	97
46) Dibromomethane	7.586	93	214069	98.052	ug/l	99
47) Bromodichloromethane	7.824	83	452578	99.995	ug/l	100
48) Methyl methacrylate	7.696	41	322487	103.875	ug/l	99
49) 1,4-Dioxane	7.684	88	61142	2073.830	ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	1766006	513.097	ug/l	99
52) Toluene	8.720	92	733119	98.837	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	423279	107.156	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	463640	103.698	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	275607	97.863	ug/l	98
56) Ethyl methacrylate	9.116	69	440765	106.154	ug/l	100
57) 1,3-Dichloropropane	9.311	76	469804	97.899	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	1000312	496.016	ug/l	99
59) 2-Hexanone	9.433	43	1215128	510.384	ug/l	100
60) Dibromochloromethane	9.519	129	333420	99.621	ug/l	100
61) 1,2-Dibromoethane	9.610	107	285821	98.420	ug/l	98
64) Tetrachloroethene	9.275	164	248666	99.506	ug/l	98
65) Chlorobenzene	10.079	112	803672	97.887	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	278595	100.380	ug/l	99
67) Ethyl Benzene	10.195	91	1424862	100.832	ug/l	99
68) m/p-Xylenes	10.299	106	1056553	200.518	ug/l	99
69) o-Xylene	10.640	106	508020	100.188	ug/l	99
70) Styrene	10.652	104	878271	102.509	ug/l	100
71) Bromoform	10.799	173	211374	101.376	ug/l	99
73) Isopropylbenzene	10.963	105	1326045	103.466	ug/l	99
74) N-amyl acetate	10.841	43	543008	111.573	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	374215	99.448	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	301098m	100.238	ug/l	
77) Bromobenzene	11.195	156	320460	102.397	ug/l	99
78) n-propylbenzene	11.305	91	1577819	103.081	ug/l	100
79) 2-Chlorotoluene	11.360	91	926261	100.105	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	1084580	102.852	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	70384	93.696	ug/l	98
82) 4-Chlorotoluene	11.451	91	1080450	99.058	ug/l	99
83) tert-Butylbenzene	11.713	119	1092054	103.803	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	1086843	103.064	ug/l	99
85) sec-Butylbenzene	11.890	105	1343222	103.010	ug/l	99
86) p-Isopropyltoluene	12.006	119	1118938	101.405	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	593233	99.223	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	585597	95.231	ug/l	99
89) n-Butylbenzene	12.329	91	1050897	102.394	ug/l	100
90) Hexachloroethane	12.536	117	202423	104.570	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	558580	98.430	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	77939	107.101	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	389962	102.504	ug/l	98
94) Hexachlorobutadiene	13.719	225	123286	91.042	ug/l	98
95) Naphthalene	13.774	128	1191910	109.632	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	370778	103.395	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047352.D
Acq On : 15 Aug 2025 10:43
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:54:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 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\VX081525\
 Data File : VX047352.D
 Acq On : 15 Aug 2025 10:43
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025

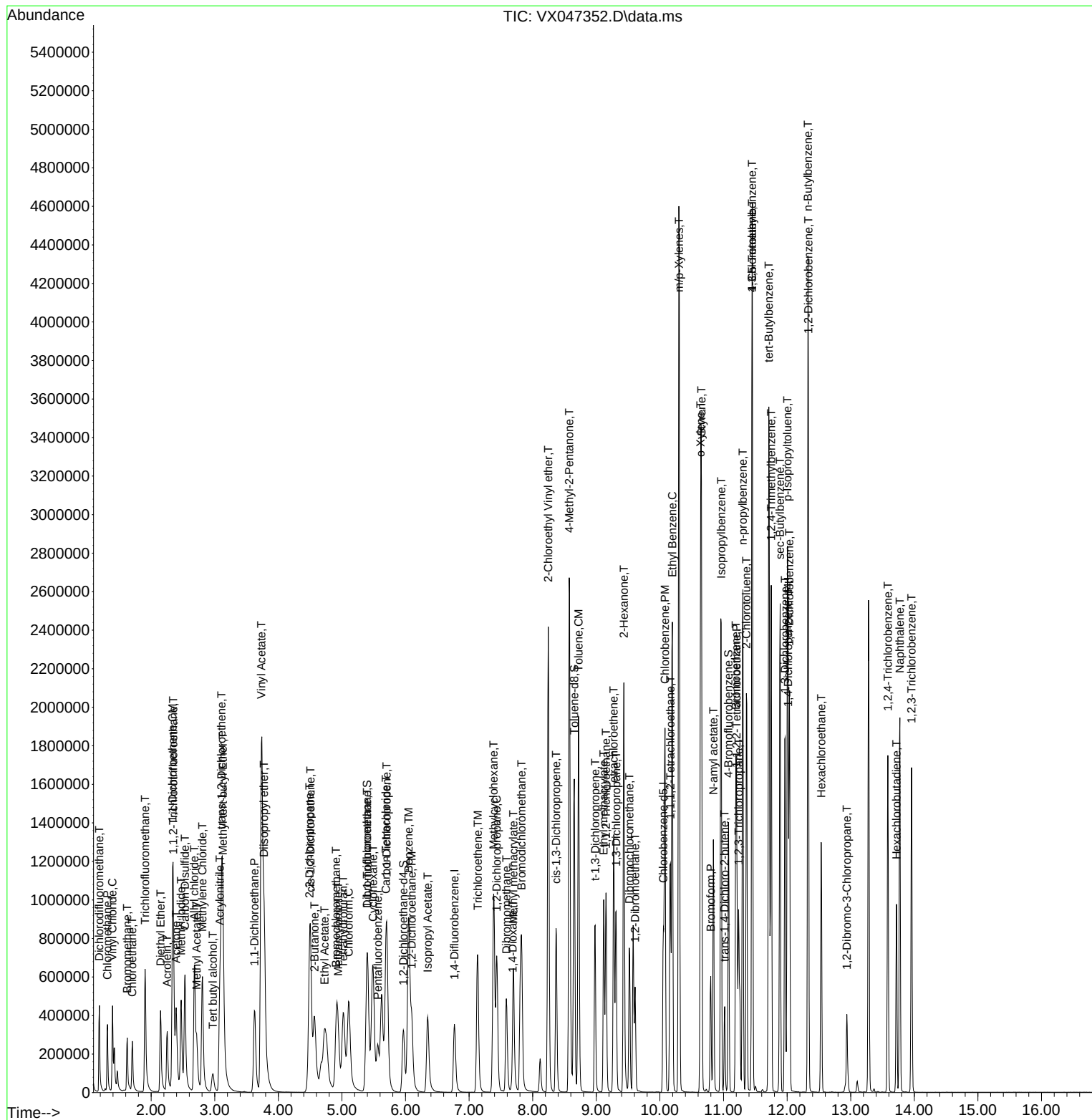
Quant Time: Aug 18 02:54:48 2025

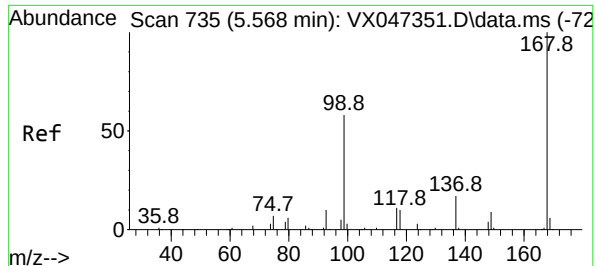
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M

Quant Title : SW846 8260

QLast Update : Mon Aug 18 02:51:35 2025

Response via : Initial Calibration





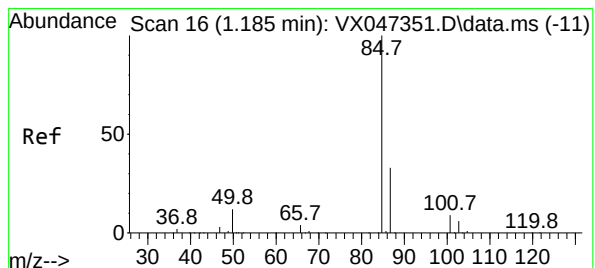
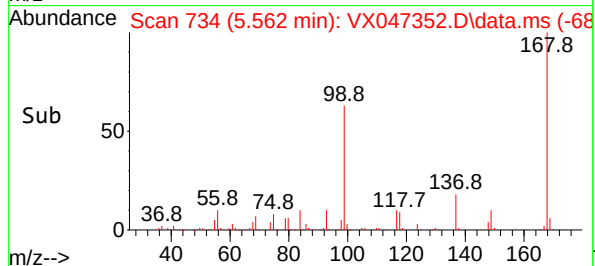
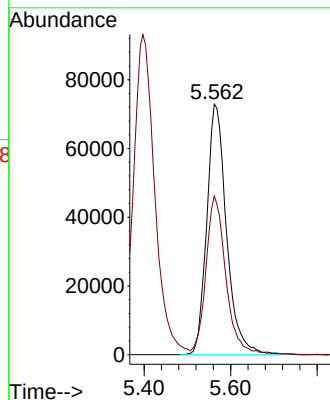
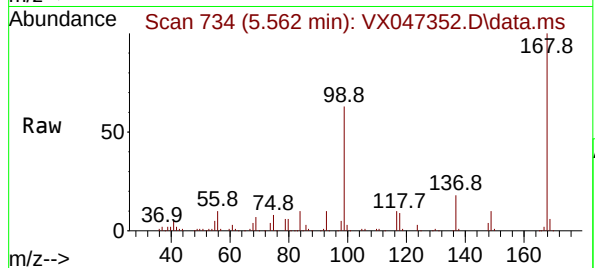
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 23099
Ion Ratio Lower Upper
168 100
99 63.0 47.9 71.9

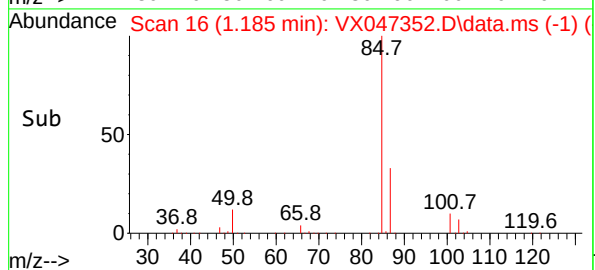
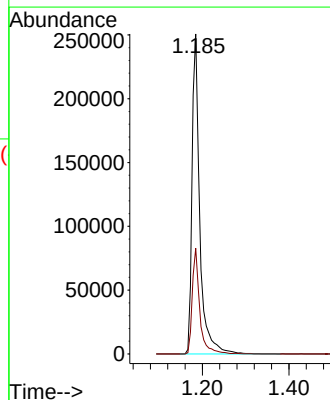
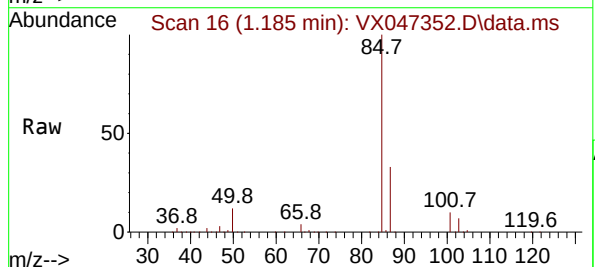
Manual Integrations
APPROVED

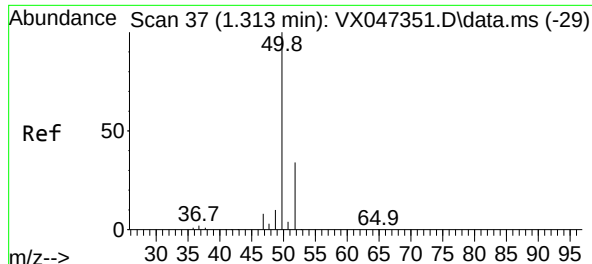
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#2
Dichlorodifluoromethane
Concen: 105.204 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 85 Resp: 309782
Ion Ratio Lower Upper
85 100
87 33.1 16.4 49.1





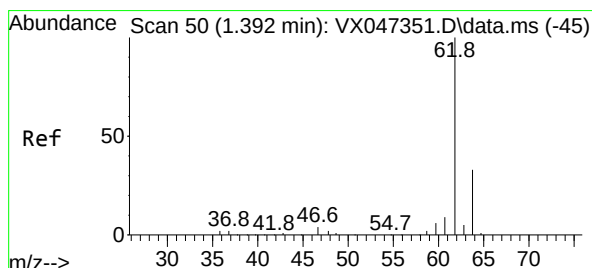
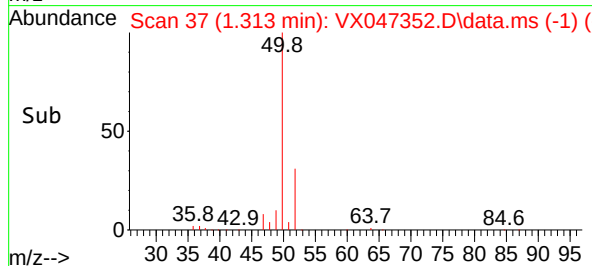
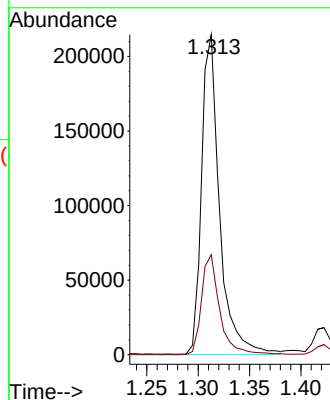
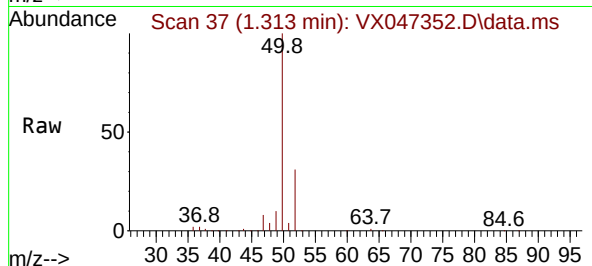
#3
Chloromethane
Concen: 98.864 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 26188
Ion Ratio Lower Upper
50 100
52 31.3 27.0 40.4

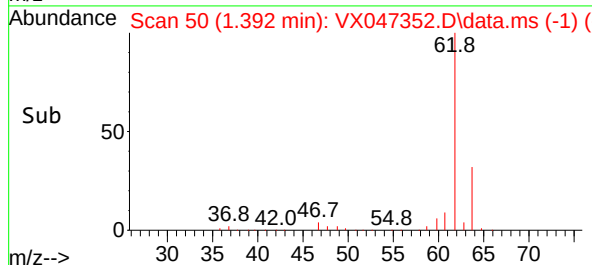
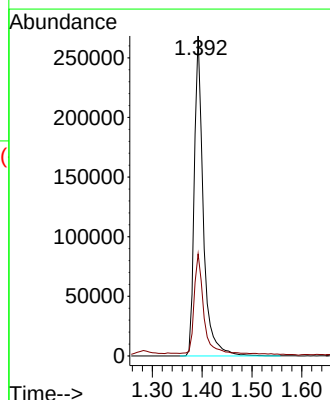
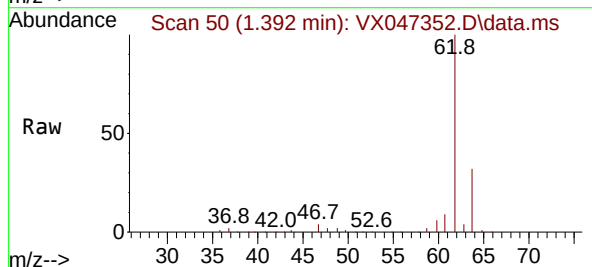
Manual Integrations
APPROVED

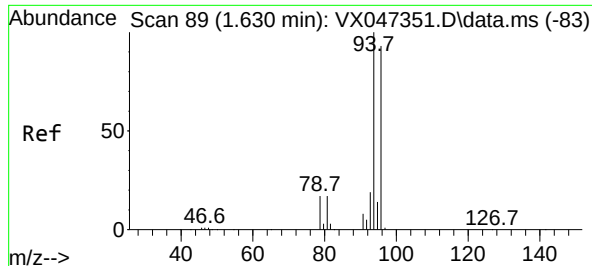
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#4
Vinyl Chloride
Concen: 101.331 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 62 Resp: 336909
Ion Ratio Lower Upper
62 100
64 31.4 26.5 39.7





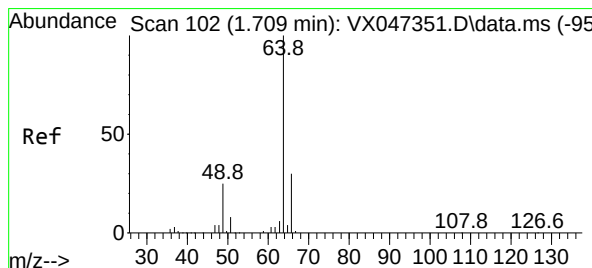
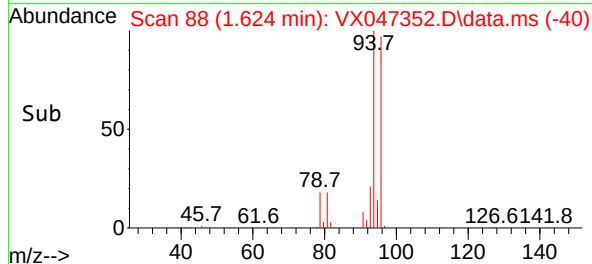
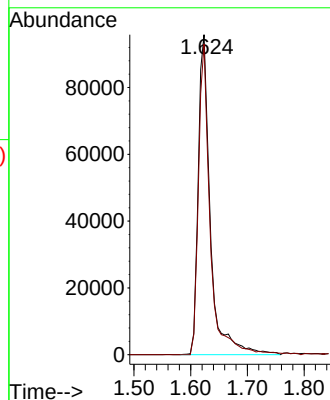
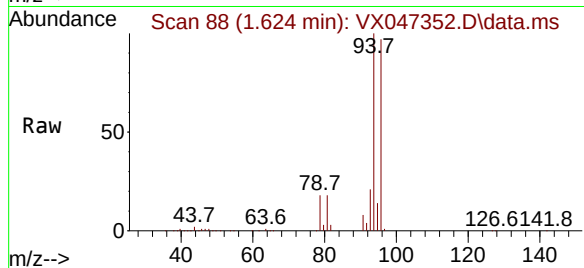
#5
Bromomethane
Concen: 106.217 ug/l
RT: 1.624 min Scan# 89
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 142644
Ion Ratio Lower Upper
94 100
96 97.1 74.7 112.1

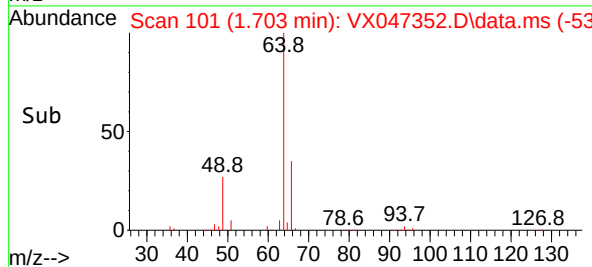
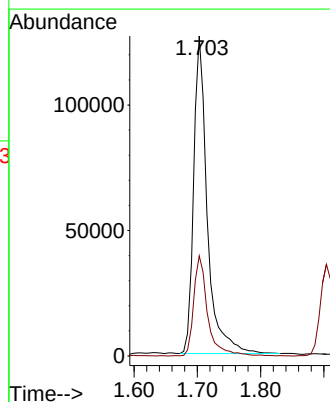
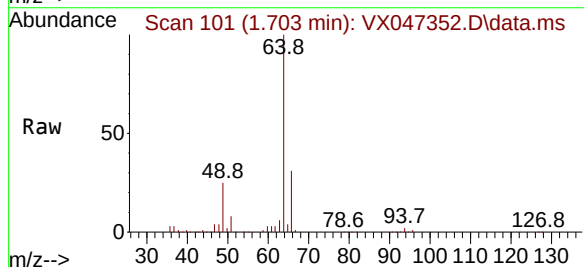
Manual Integrations
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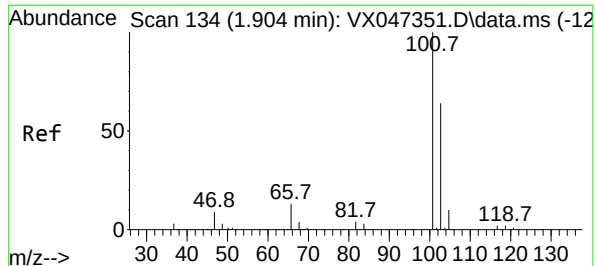
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#6
Chloroethane
Concen: 93.112 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 64 Resp: 189413
Ion Ratio Lower Upper
64 100
66 31.4 24.4 36.6





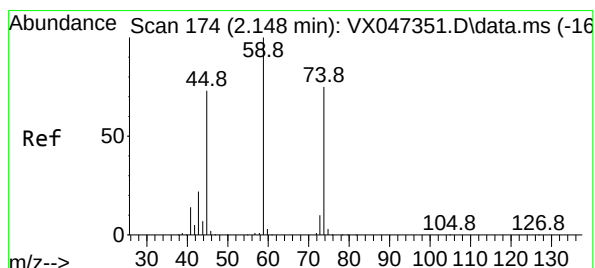
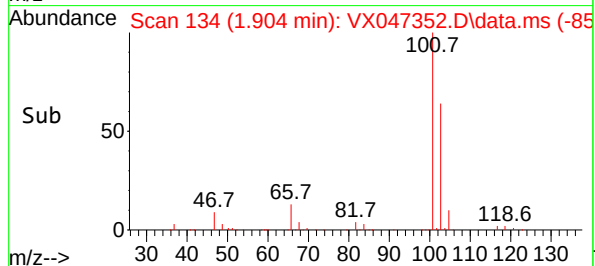
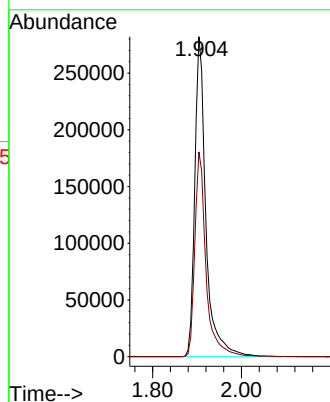
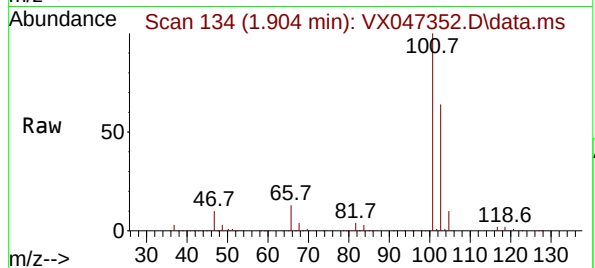
#7
Trichlorofluoromethane
Concen: 99.548 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 489572
Ion Ratio Lower Upper
101 100
103 64.0 50.9 76.3

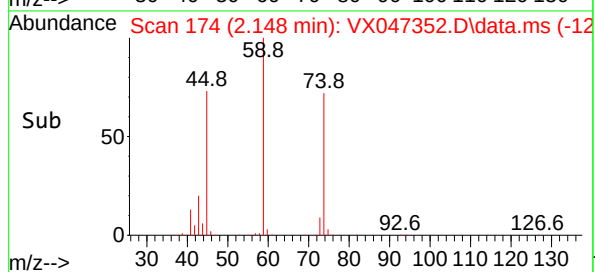
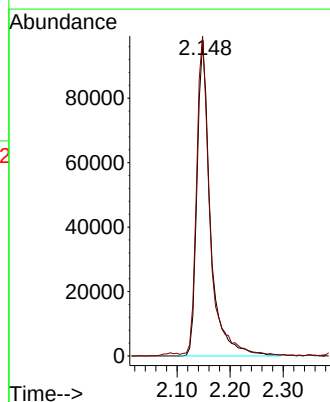
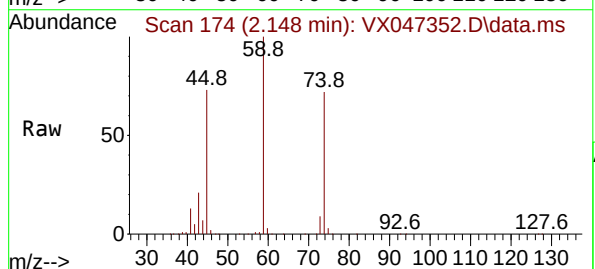
Manual Integrations
APPROVED

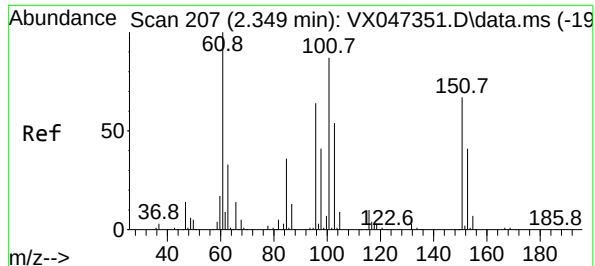
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#8
Diethyl Ether
Concen: 98.832 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 74 Resp: 171145
Ion Ratio Lower Upper
74 100
45 102.0 51.3 154.0





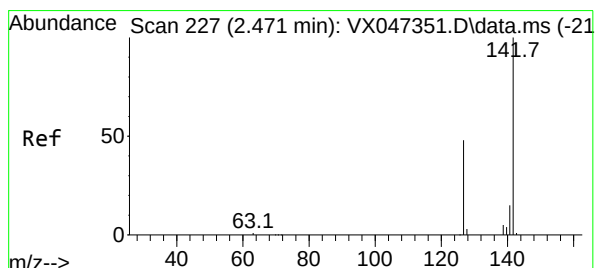
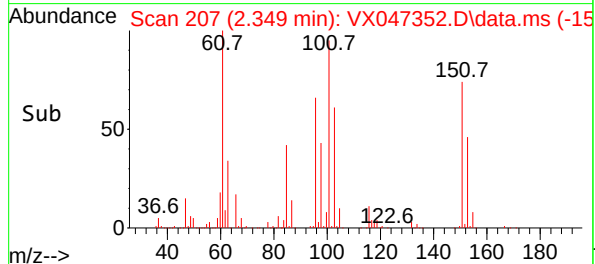
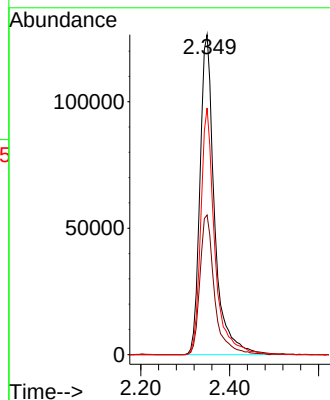
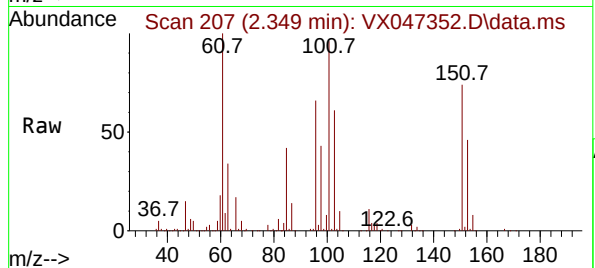
#9
1,1,2-Trichlorotrifluoroethane
Concen: 101.101 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 288420
Ion Ratio Lower Upper
101 100
85 44.0 34.3 51.5
151 74.7 59.2 88.8

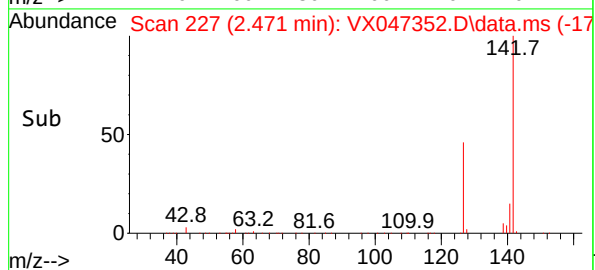
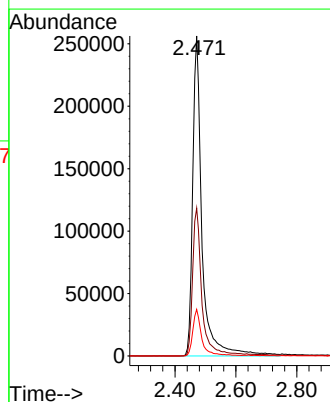
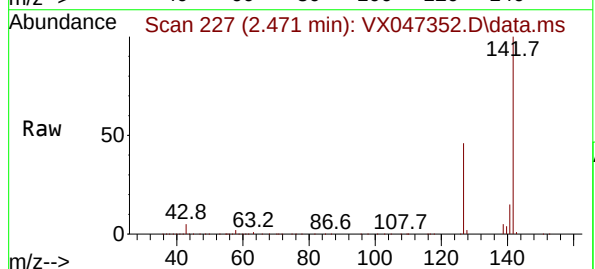
Manual Integrations
APPROVED

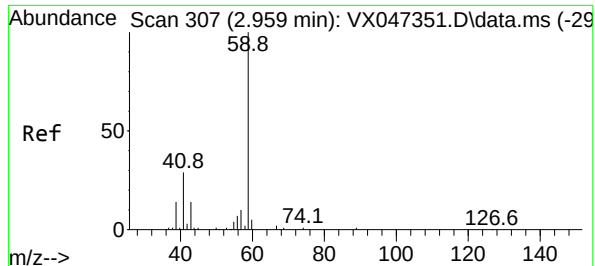
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#10
Methyl Iodide
Concen: 111.619 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:142 Resp: 545687
Ion Ratio Lower Upper
142 100
127 46.6 36.1 54.1
141 14.0 11.1 16.7





#11

Tert butyl alcohol

Concen: 510.865 ug/l

RT: 2.971 min Scan# 307

Delta R.T. 0.012 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 14367

Ion Ratio Lower Upper

59 100

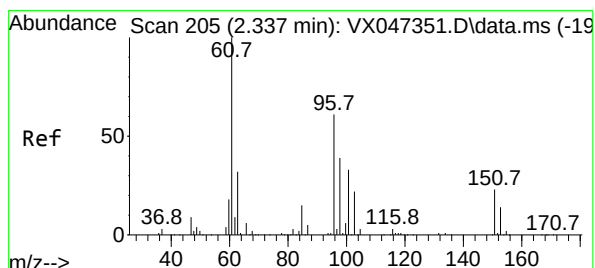
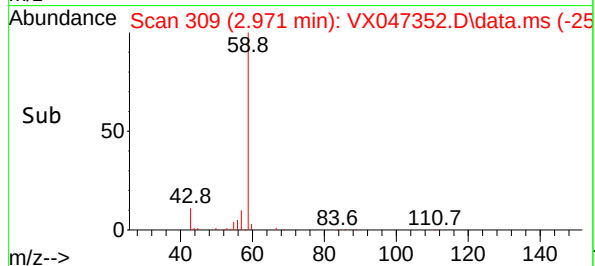
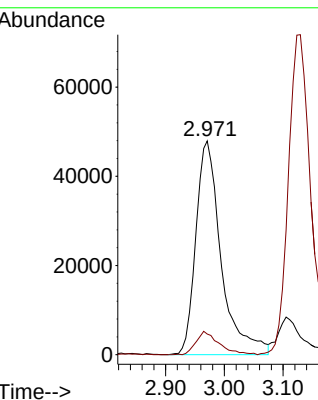
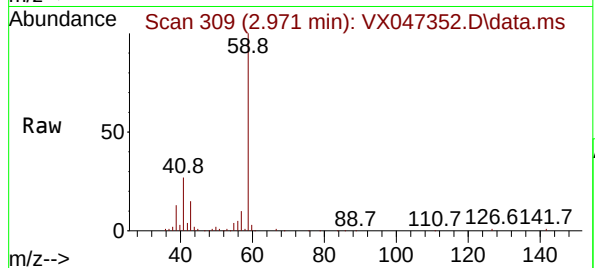
57 9.9 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#12

1,1-Dichloroethene

Concen: 100.899 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

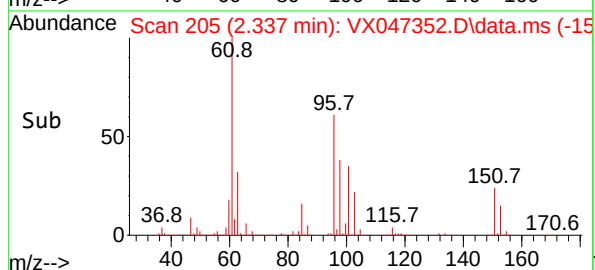
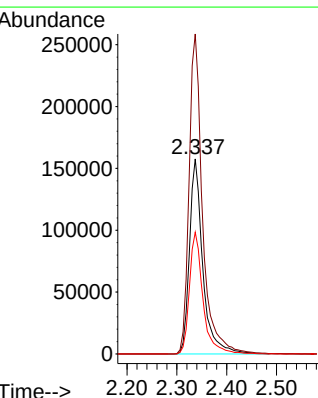
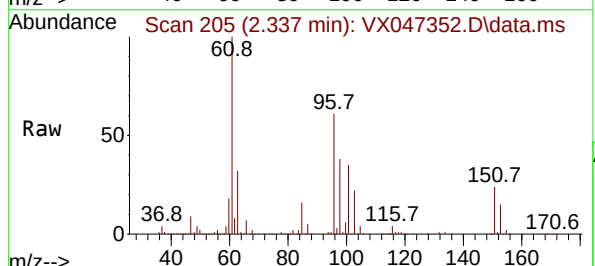
Tgt Ion: 96 Resp: 293450

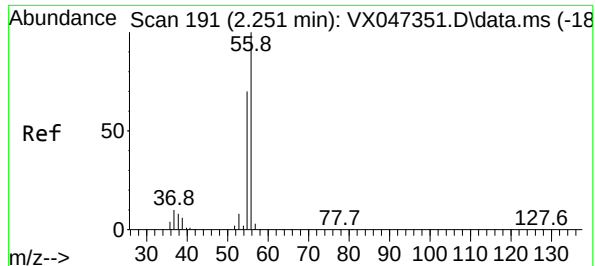
Ion Ratio Lower Upper

96 100

61 164.0 132.2 198.2

98 62.4 51.2 76.8





#13

Acrolein

Concen: 495.763 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 29432

Ion Ratio Lower Upper

56 100

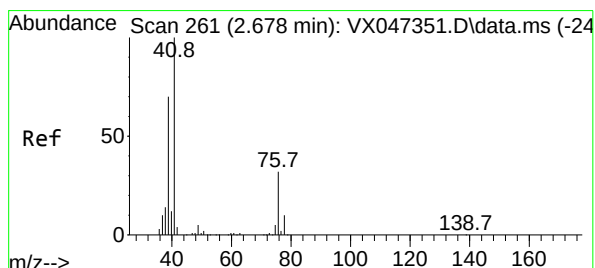
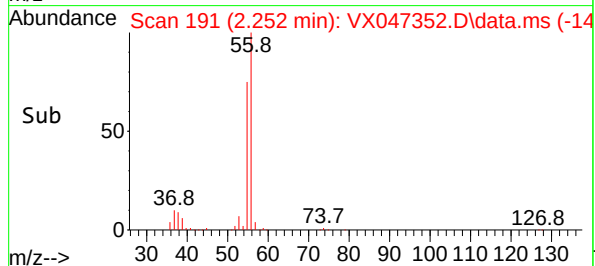
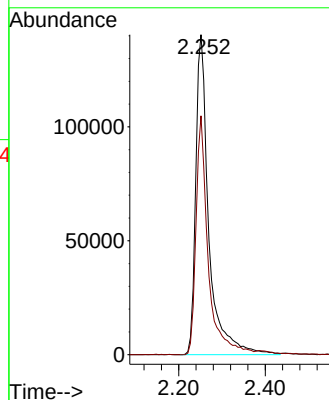
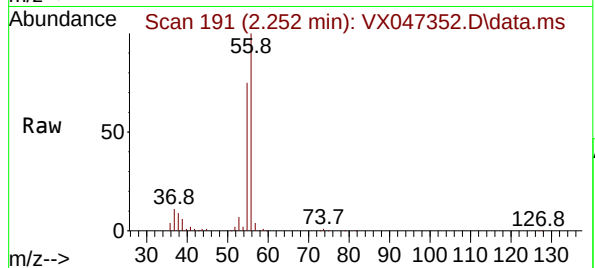
55 69.4 55.5 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#14

Allyl chloride

Concen: 101.402 ug/l

RT: 2.678 min Scan# 261

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

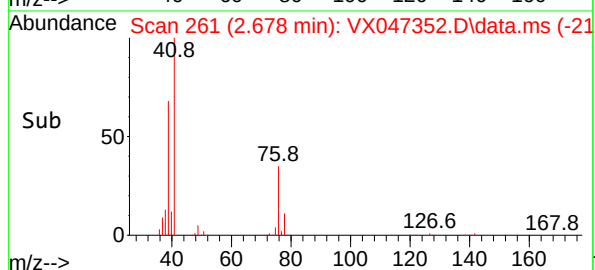
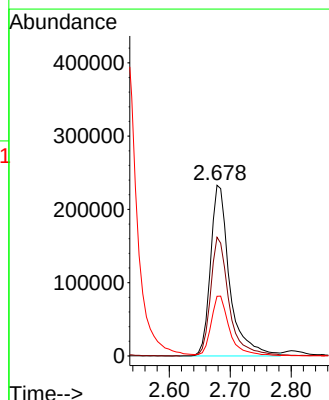
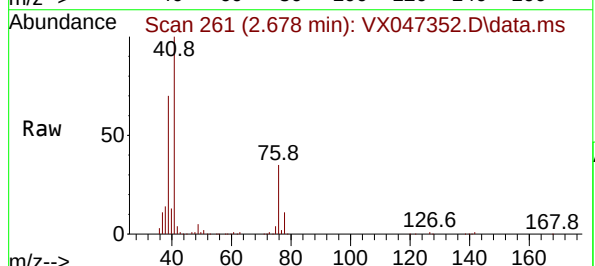
Tgt Ion: 41 Resp: 512225

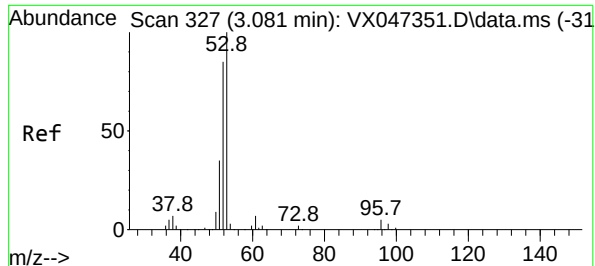
Ion Ratio Lower Upper

41 100

39 66.9 54.6 81.8

76 33.9 27.6 41.4





#15

Acrylonitrile

Concen: 509.058 ug/l

RT: 3.081 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

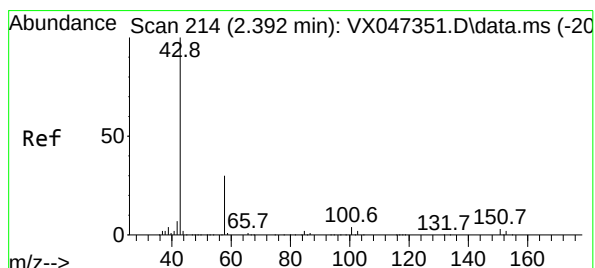
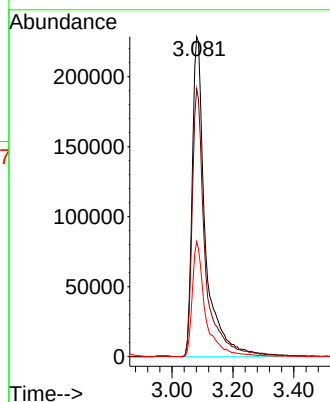
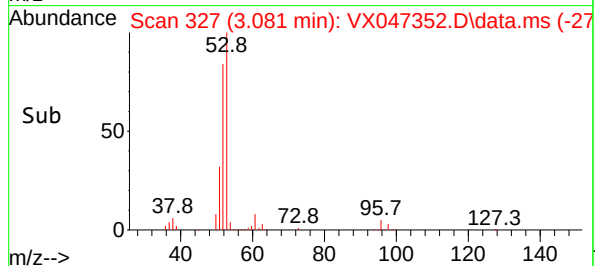
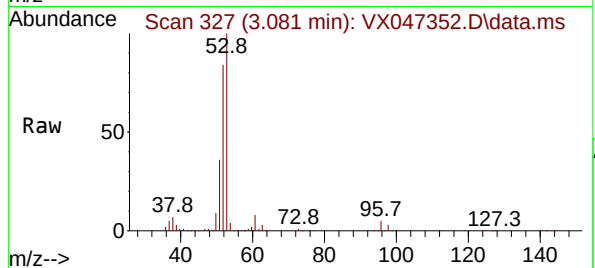
VSTDICC100

Tgt Ion:	53	Resp:	69179
Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.8	98.6
51	35.8	28.2	42.2

Manual Integrations
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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#16

Acetone

Concen: 456.549 ug/l

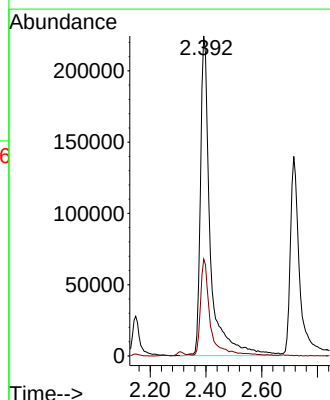
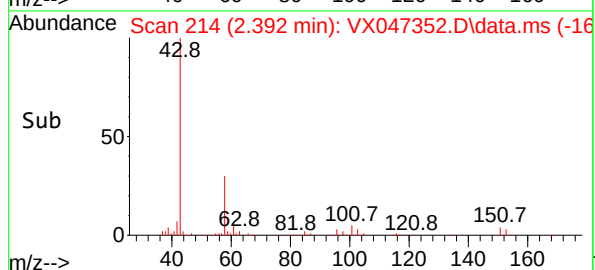
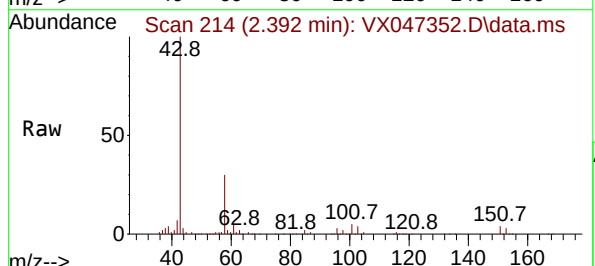
RT: 2.392 min Scan# 214

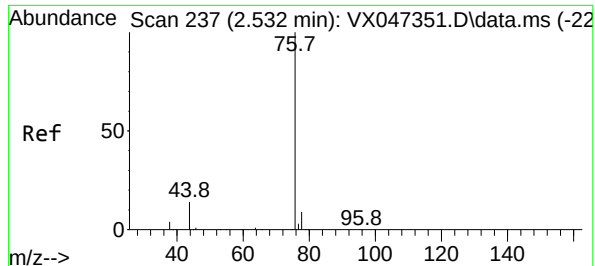
Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Tgt Ion:	43	Resp:	554774
Ion	Ratio	Lower	Upper
43	100		
58	30.0	24.8	37.2





#17

Carbon Disulfide

Concen: 95.757 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 84038

Ion Ratio Lower Upper

76 100

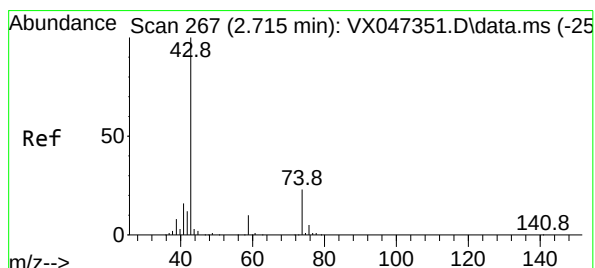
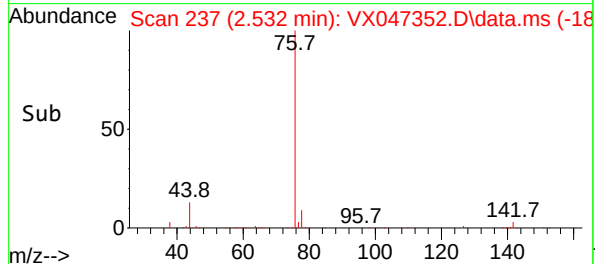
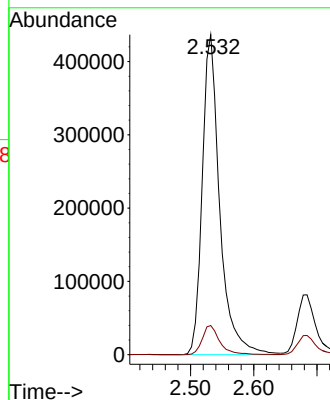
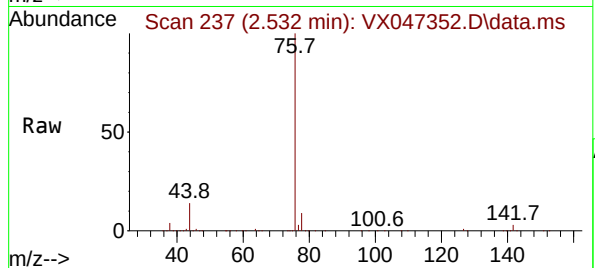
78 9.1 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#18

Methyl Acetate

Concen: 101.128 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.000 min

Lab File: VX047352.D

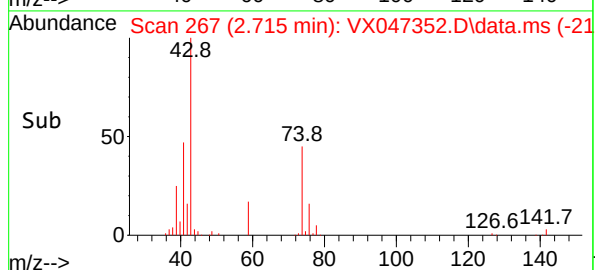
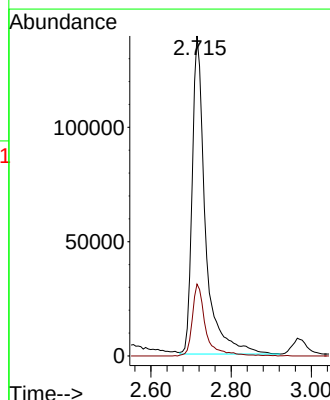
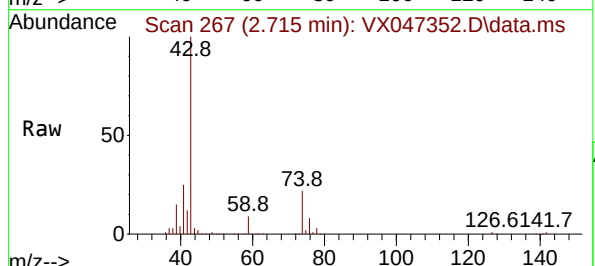
Acq: 15 Aug 2025 10:43

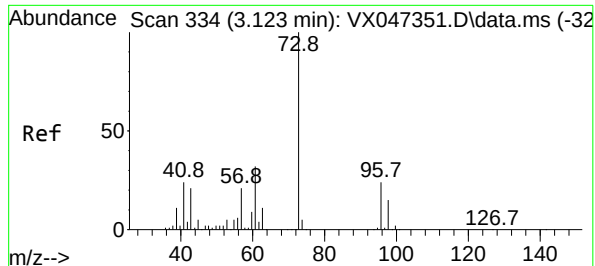
Tgt Ion: 43 Resp: 318444

Ion Ratio Lower Upper

43 100

74 22.8 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 102.433 ug/l

RT: 3.129 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 90630

Ion Ratio Lower Upper

73 100

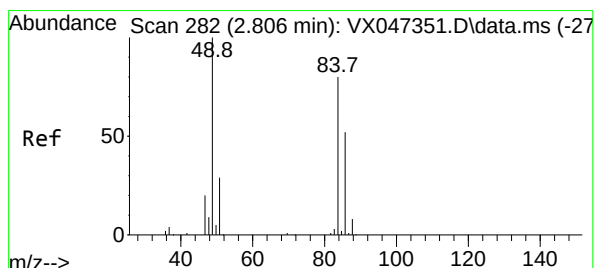
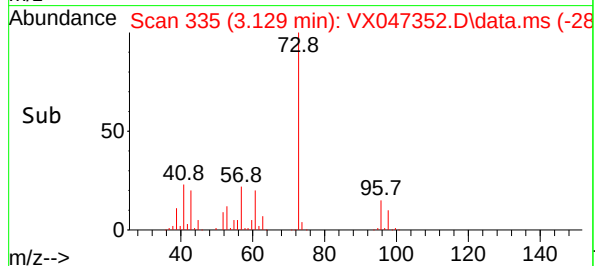
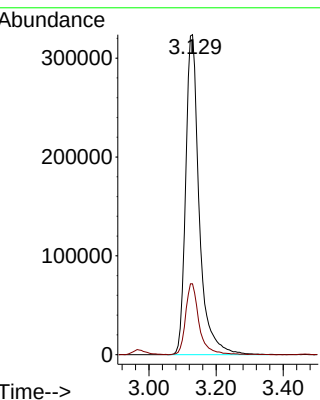
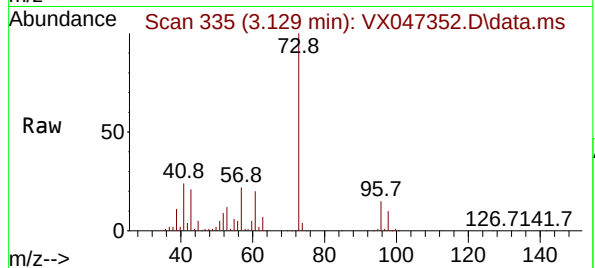
57 22.2 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#20

Methylene Chloride

Concen: 96.088 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Tgt Ion: 84 Resp: 309183

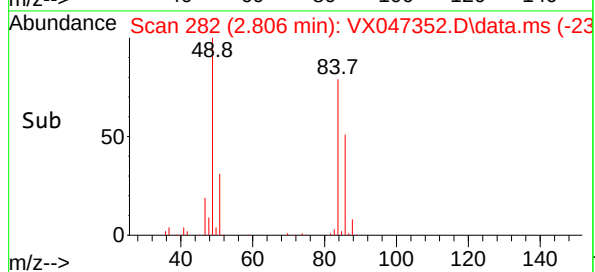
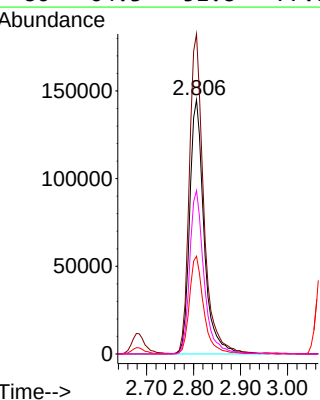
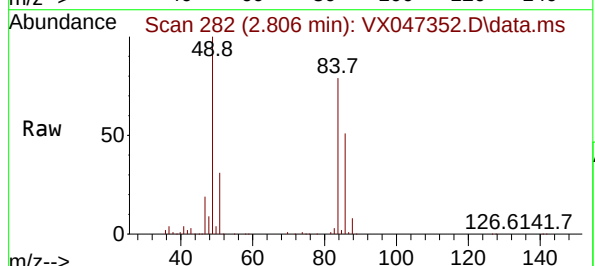
Ion Ratio Lower Upper

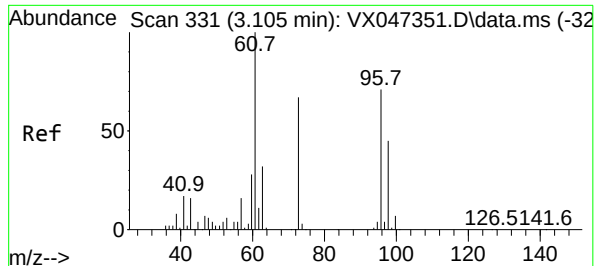
84 100

49 125.7 100.1 150.1

51 38.3 29.5 44.3

86 64.3 51.8 77.8





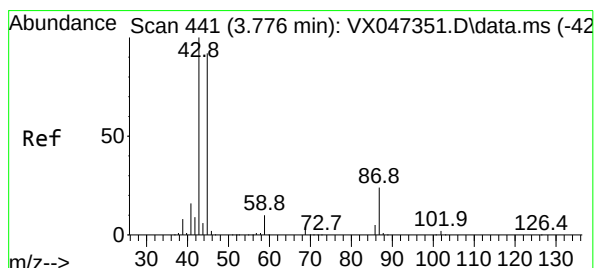
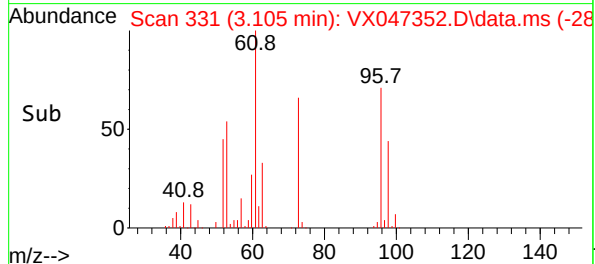
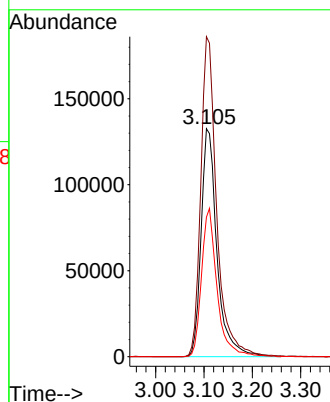
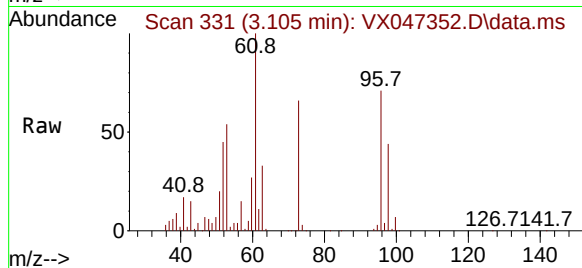
#21
trans-1,2-Dichloroethene
Concen: 98.051 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 302669
Ion Ratio Lower Upper
96 100
61 140.3 112.6 169.0
98 61.2 50.9 76.3

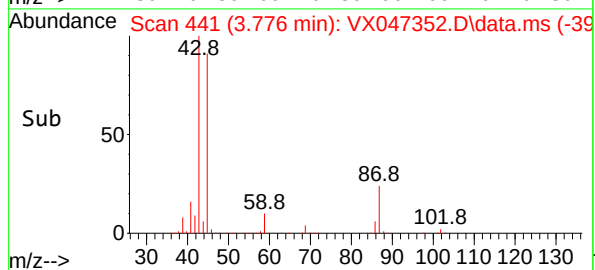
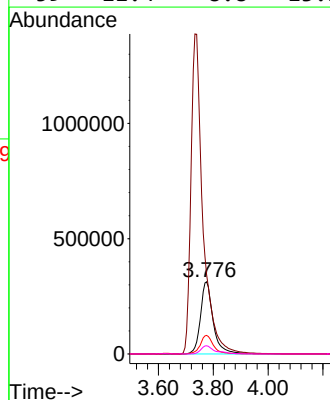
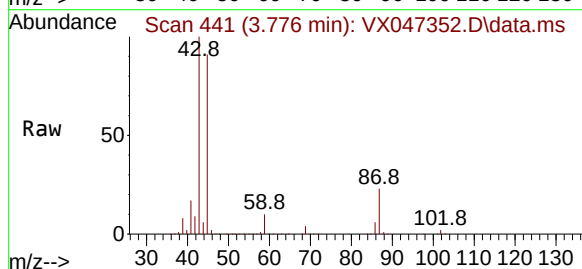
Manual Integrations
APPROVED

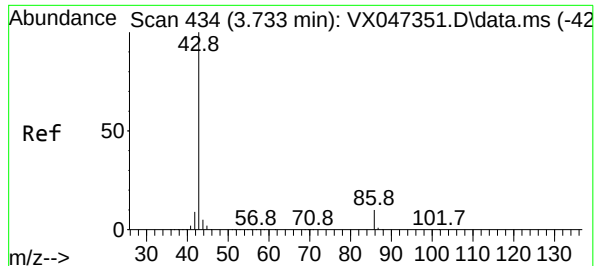
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#22
Diisopropyl ether
Concen: 100.865 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 45 Resp: 1007141
Ion Ratio Lower Upper
45 100
43 110.0 86.8 130.2
87 25.8 20.4 30.6
59 11.4 8.8 13.2





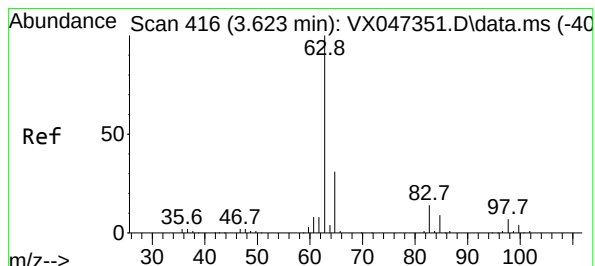
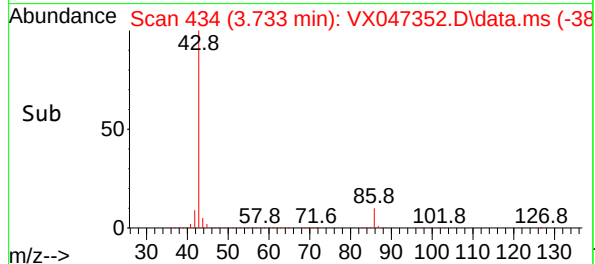
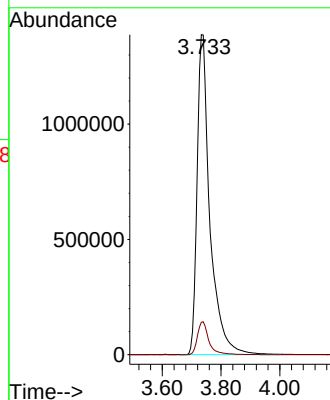
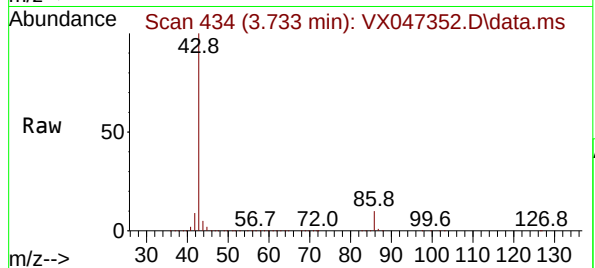
#23
Vinyl Acetate
Concen: 514.008 ug/l
RT: 3.733 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 420676
Ion Ratio Lower Upper
43 100
86 10.1 7.9 11.9

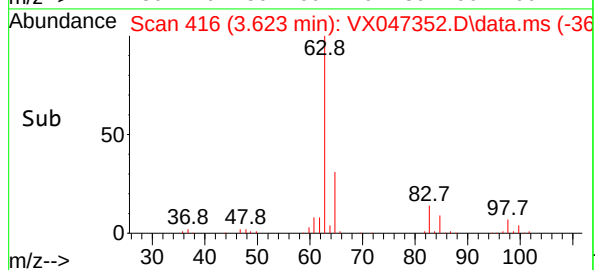
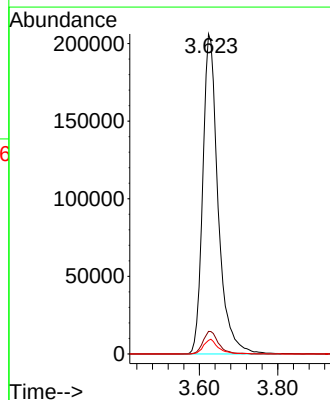
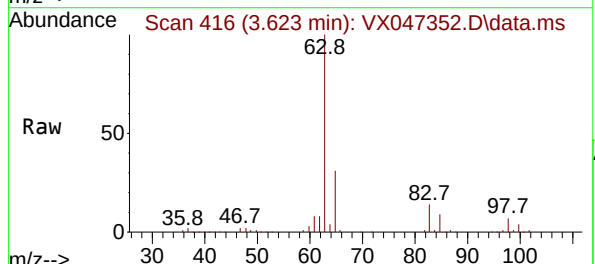
Manual Integrations
APPROVED

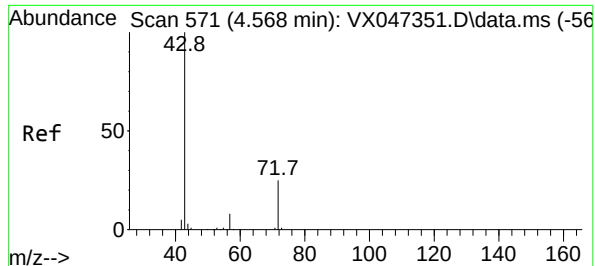
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#24
1,1-Dichloroethane
Concen: 99.034 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 63 Resp: 558936
Ion Ratio Lower Upper
63 100
98 7.1 3.3 9.9
100 4.2 2.1 6.3





#25

2-Butanone

Concen: 496.288 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 789810

Ion Ratio Lower Upper

43 100

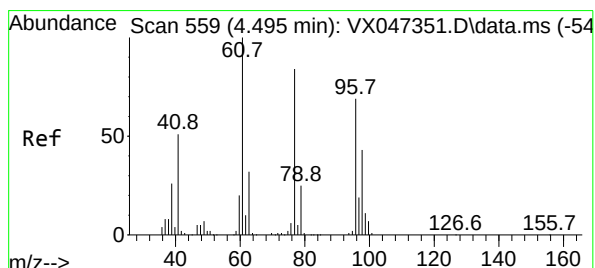
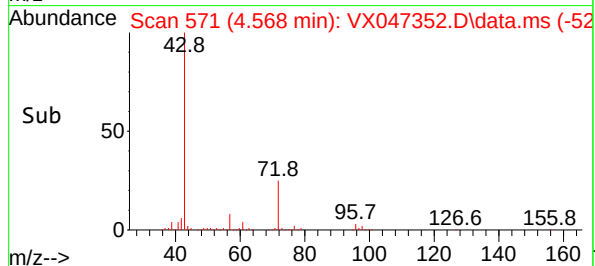
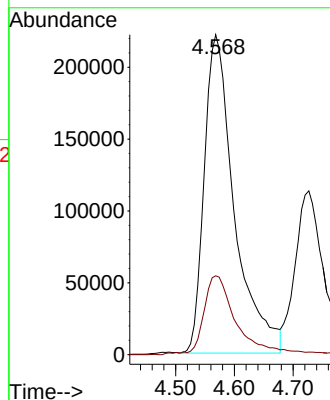
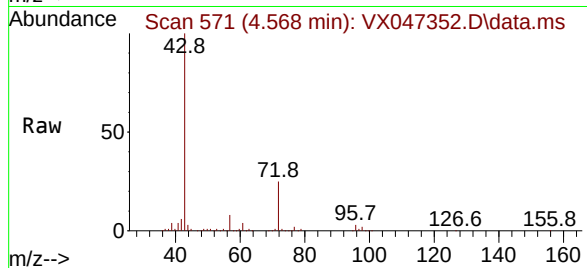
72 23.9 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#26

2,2-Dichloropropane

Concen: 101.916 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX047352.D

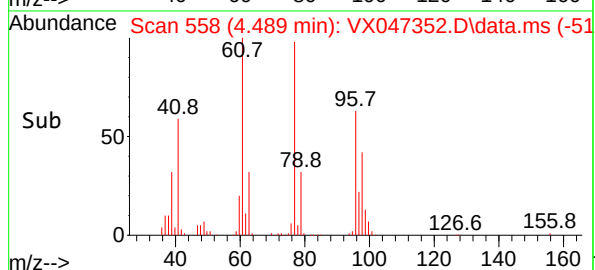
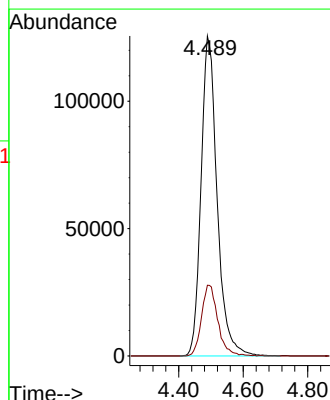
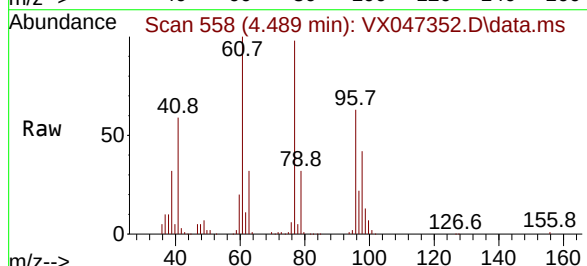
Acq: 15 Aug 2025 10:43

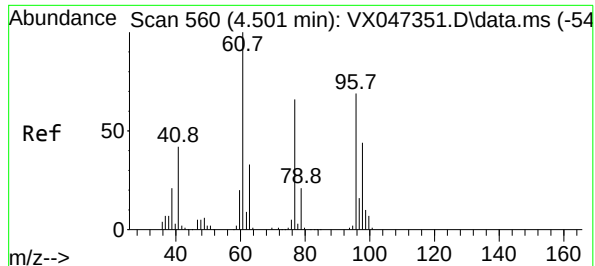
Tgt Ion: 77 Resp: 434139

Ion Ratio Lower Upper

77 100

97 22.5 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 98.806 ug/l

RT: 4.507 min Scan# 560

Delta R.T. 0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 355238

Ion Ratio Lower Upper

96 100

61 146.5 0.0 296.6

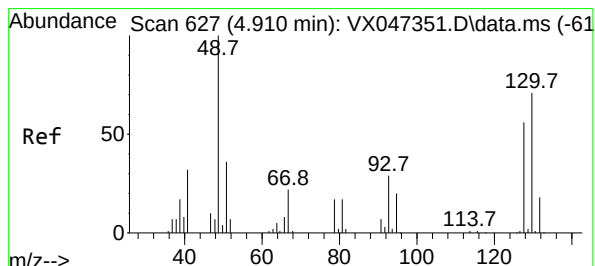
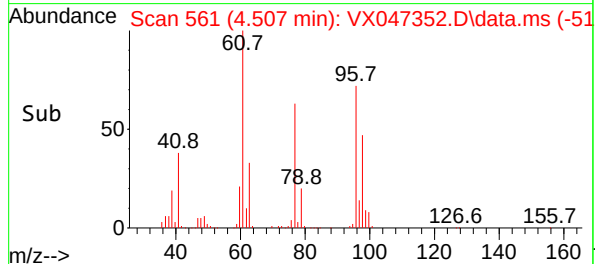
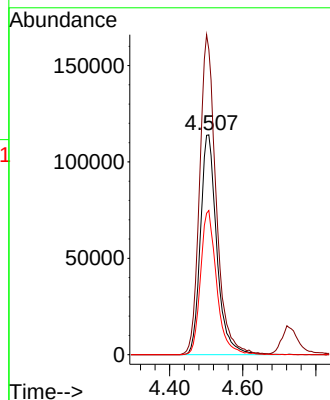
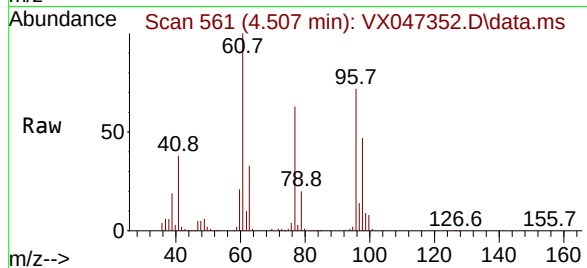
98 64.6 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#28

Bromochloromethane

Concen: 110.131 ug/l

RT: 4.910 min Scan# 627

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

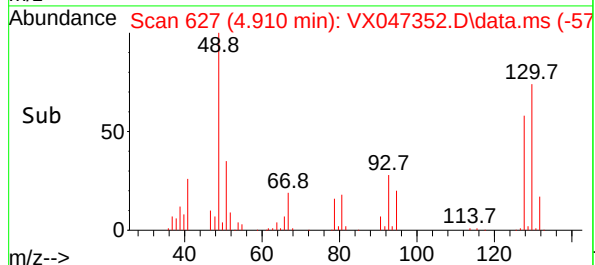
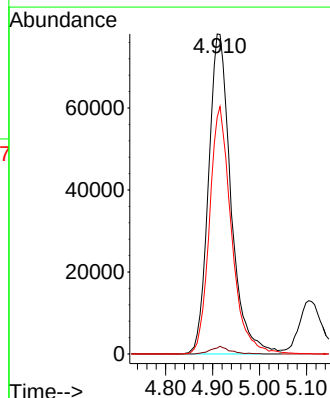
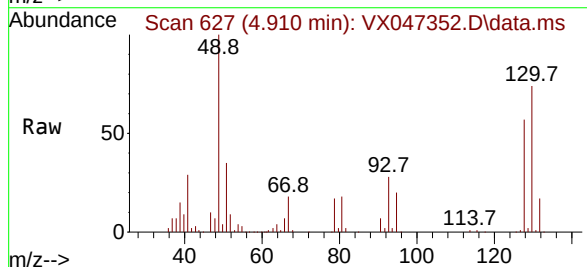
Tgt Ion: 49 Resp: 258648

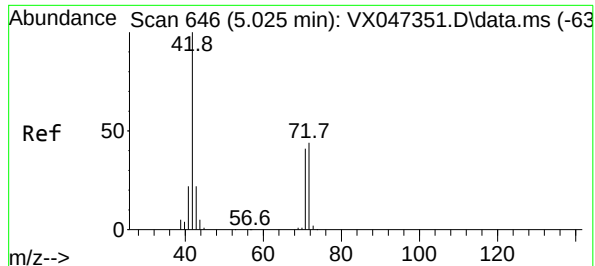
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.0

130 75.6 59.8 89.6





#29

Tetrahydrofuran

Concen: 491.640 ug/l

RT: 5.019 min Scan# 646

Delta R.T. -0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 505709

Ion Ratio Lower Upper

42 100

72 45.0 34.6 51.8

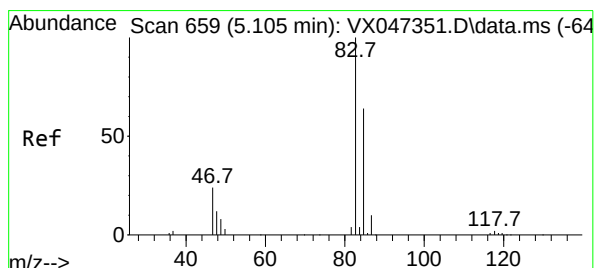
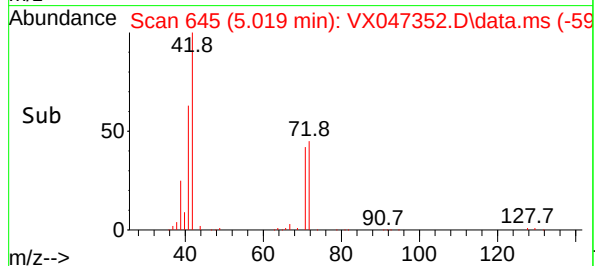
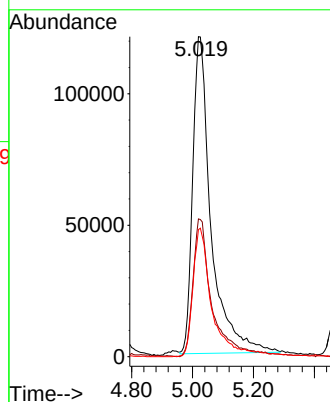
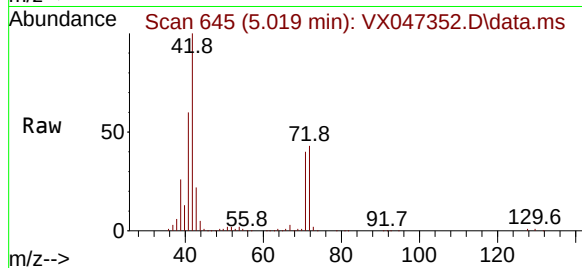
71 41.7 32.6 49.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#30

Chloroform

Concen: 97.394 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.000 min

Lab File: VX047352.D

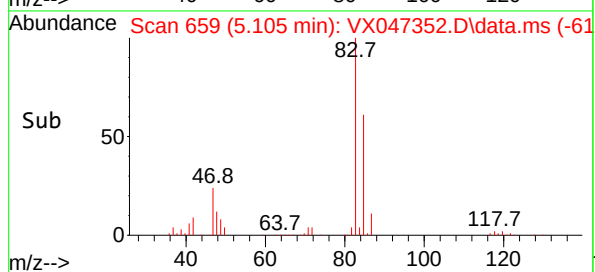
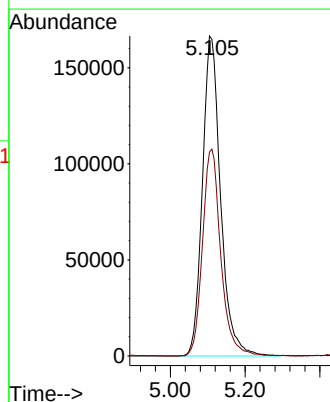
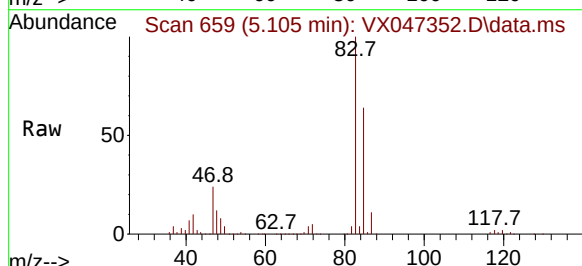
Acq: 15 Aug 2025 10:43

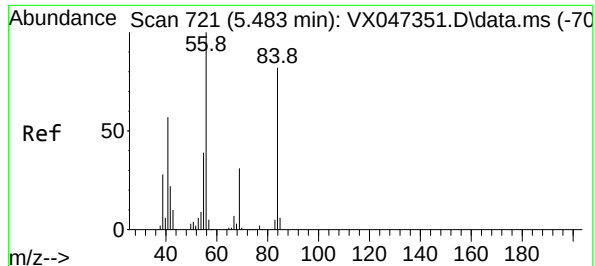
Tgt Ion: 83 Resp: 560984

Ion Ratio Lower Upper

83 100

85 63.6 51.2 76.8





#31

Cyclohexane

Concen: 96.100 ug/l

RT: 5.489 min Scan# 707

Delta R.T. 0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 499979

Ion Ratio Lower Upper

56 100

69 30.8 24.3 36.5

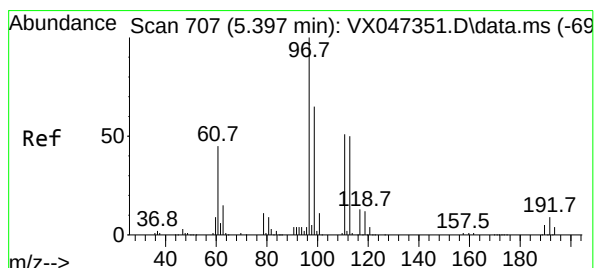
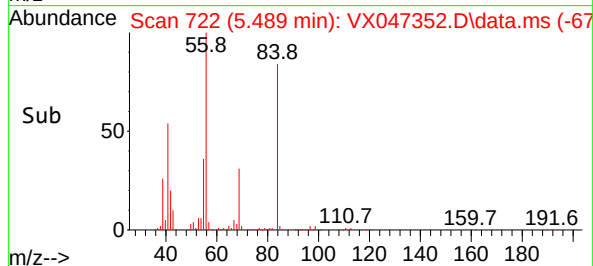
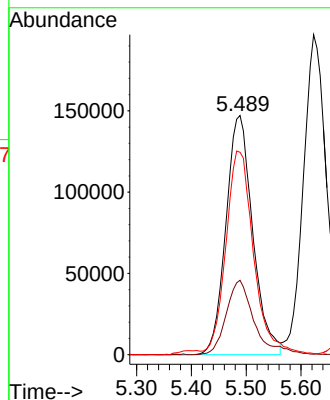
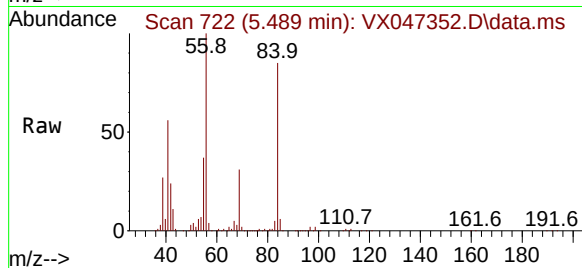
84 83.5 65.3 97.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#32

1,1,1-Trichloroethane

Concen: 100.709 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

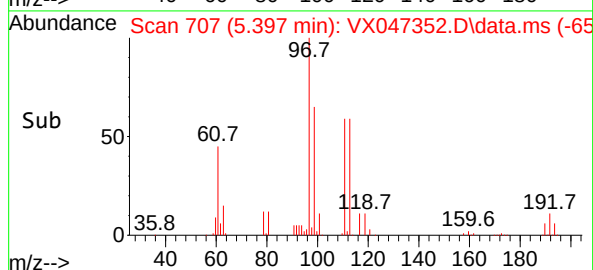
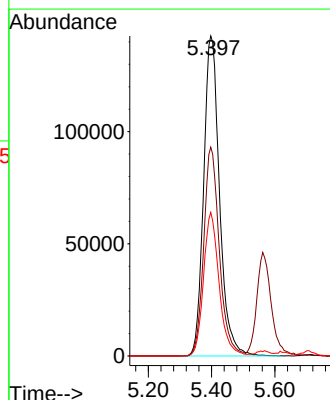
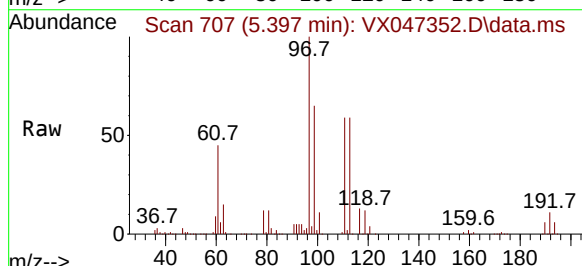
Tgt Ion: 97 Resp: 499294

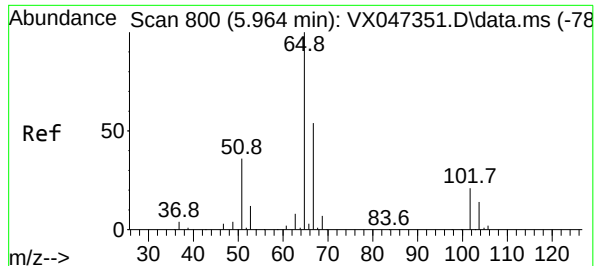
Ion Ratio Lower Upper

97 100

99 64.0 51.4 77.0

61 43.9 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 106.746 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 34508

Ion Ratio Lower Upper

65 100

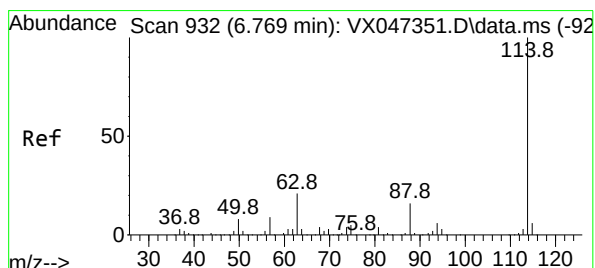
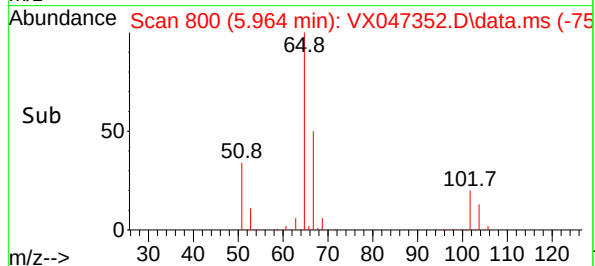
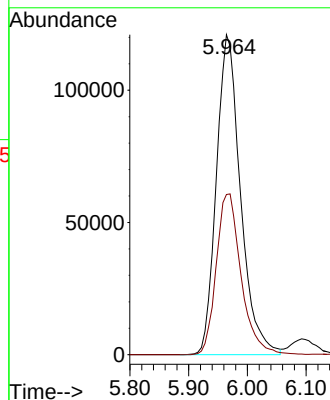
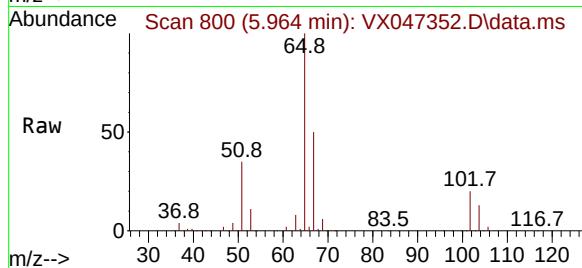
67 51.9 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

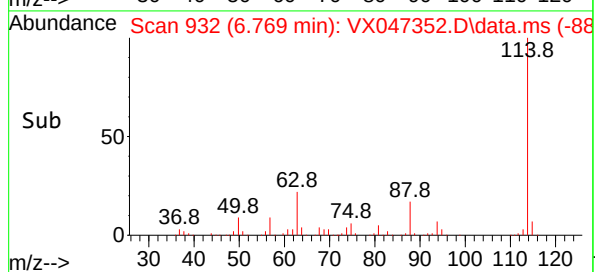
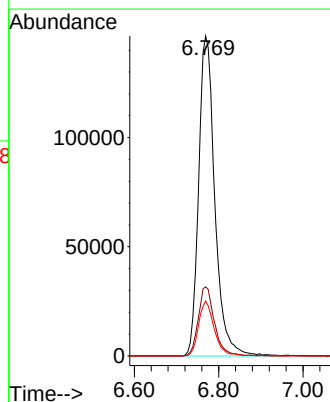
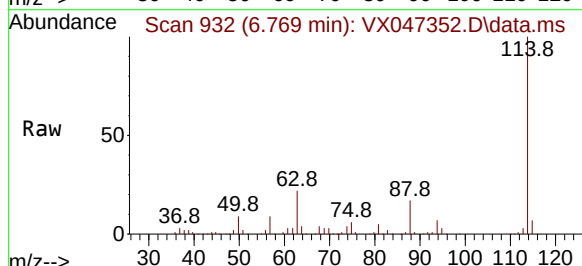
Tgt Ion:114 Resp: 391443

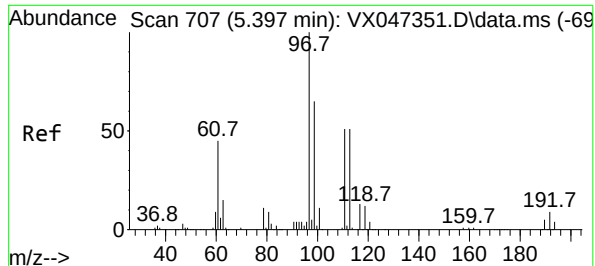
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.4

88 17.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 108.967 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 276832

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.2

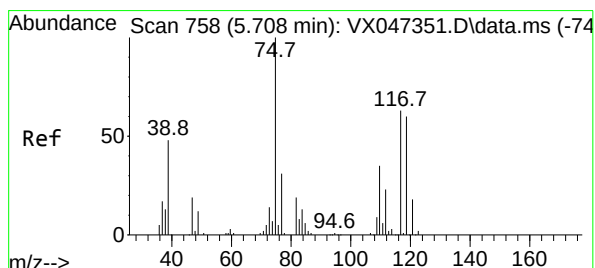
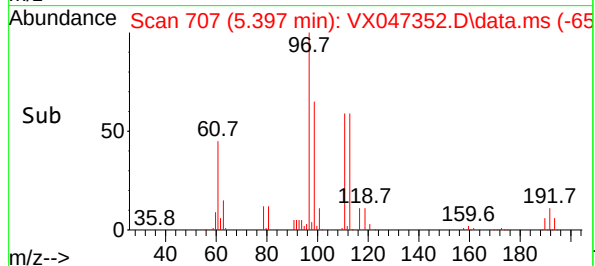
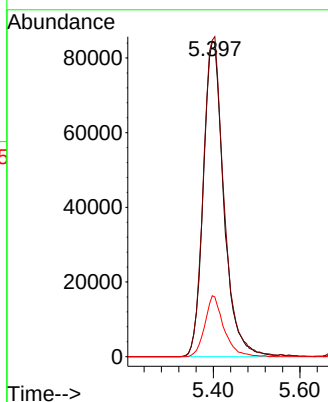
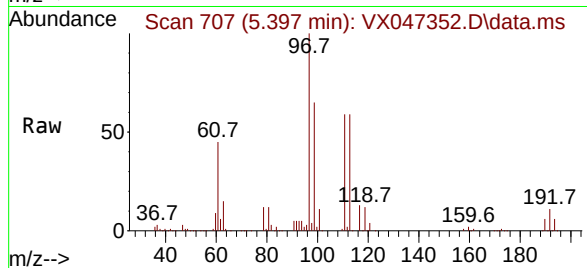
192 18.0 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#36

1,1-Dichloropropene

Concen: 99.278 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

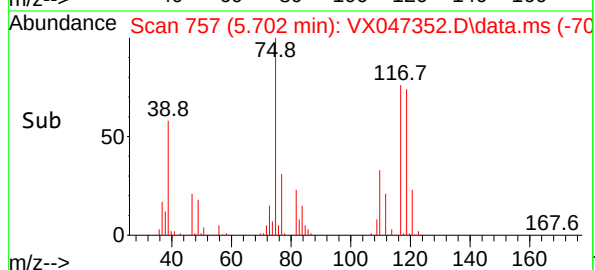
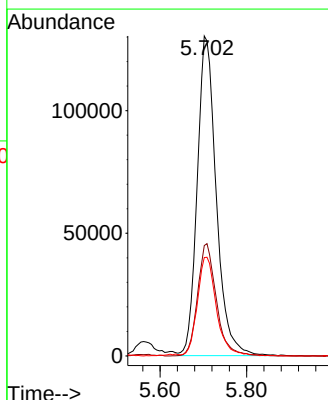
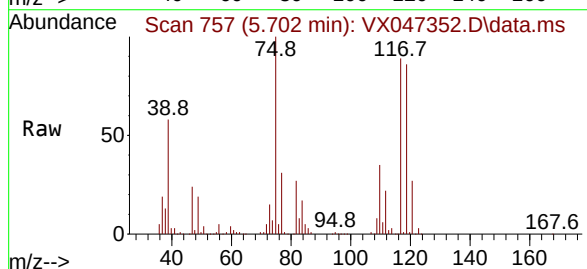
Tgt Ion: 75 Resp: 398144

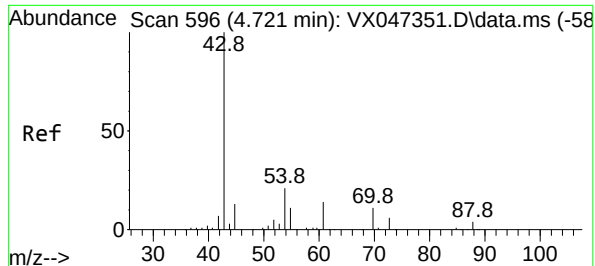
Ion Ratio Lower Upper

75 100

110 34.7 17.4 52.2

77 30.8 24.4 36.6





#37

Ethyl Acetate

Concen: 99.265 ug/l

RT: 4.727 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

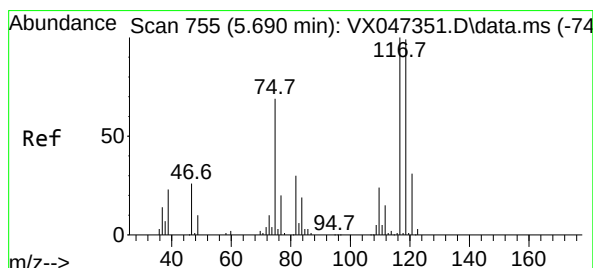
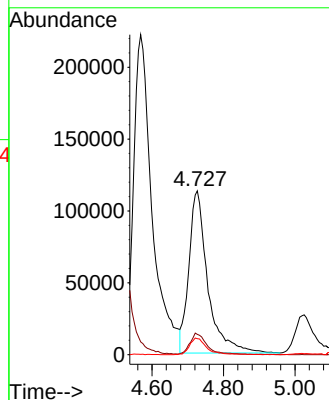
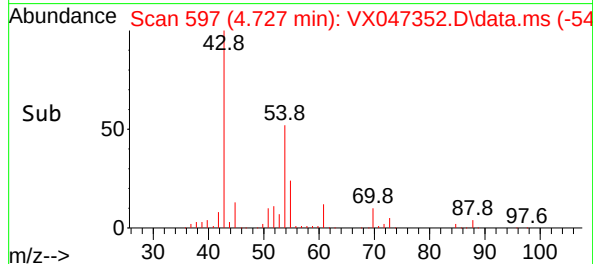
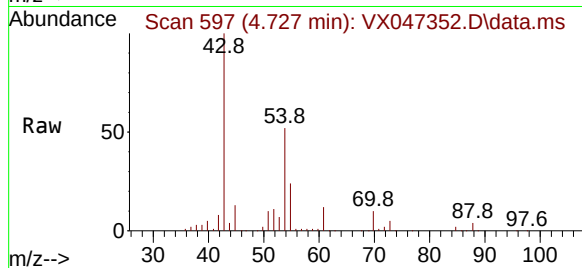
VSTDIC100

Tgt Ion:	43	Resp:	413279
Ion	Ratio	Lower	Upper
43	100		
61	11.5	9.4	14.2
70	9.2	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#38

Carbon Tetrachloride

Concen: 98.132 ug/l

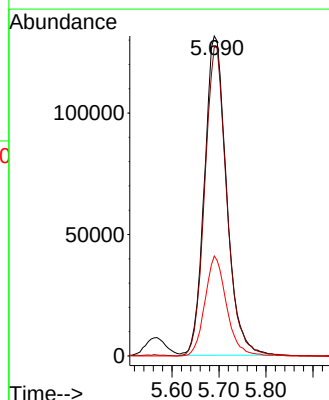
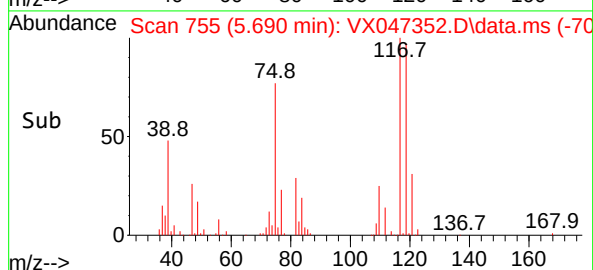
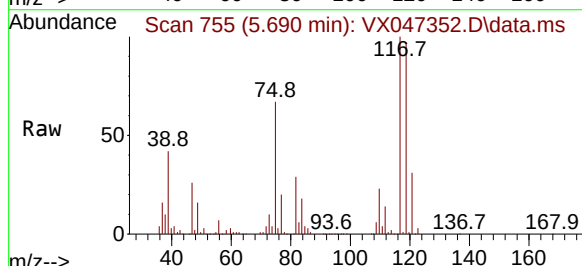
RT: 5.690 min Scan# 755

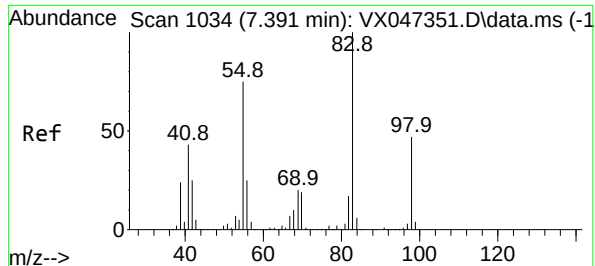
Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Tgt Ion:	117	Resp:	430061
Ion	Ratio	Lower	Upper
117	100		
119	96.7	78.5	117.7
121	31.3	24.7	37.1





#39

Methylcyclohexane

Concen: 100.134 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 50090

Ion Ratio Lower Upper

83 100

55 79.4 60.0 90.0

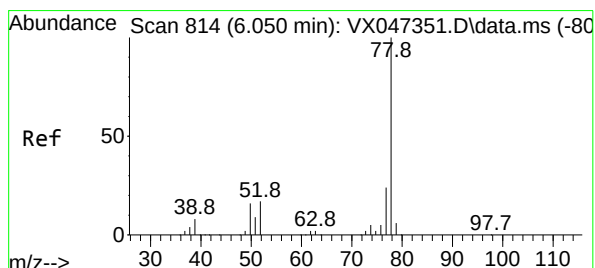
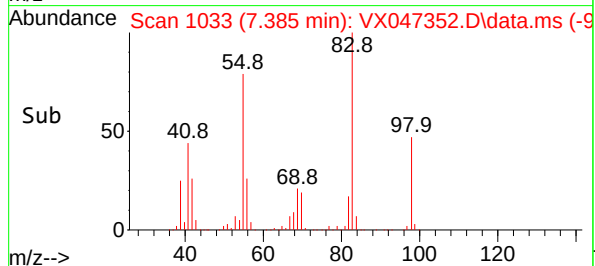
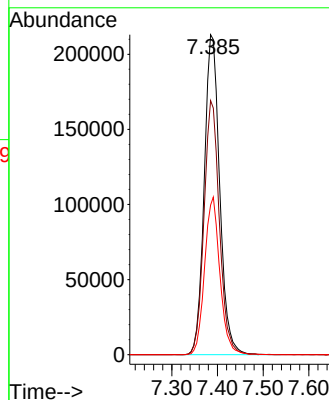
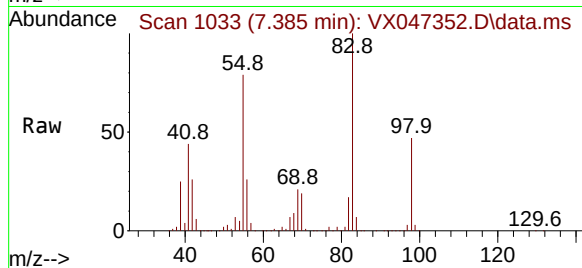
98 46.7 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#40

Benzene

Concen: 98.866 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX047352.D

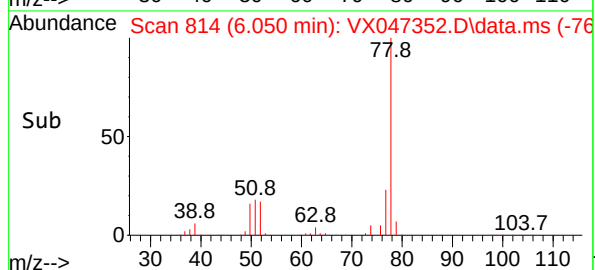
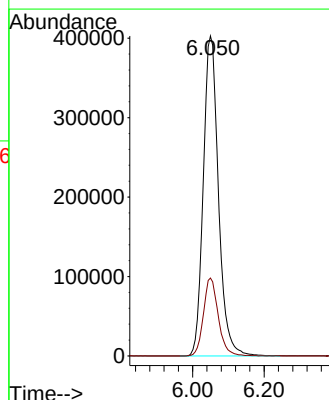
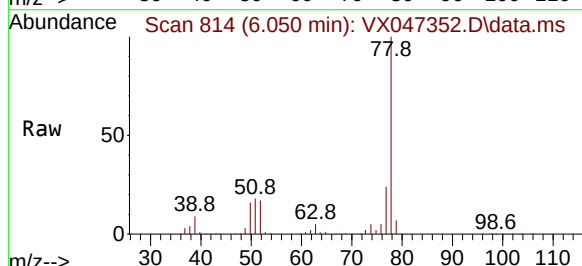
Acq: 15 Aug 2025 10:43

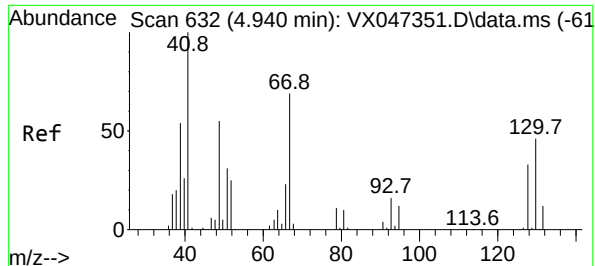
Tgt Ion: 78 Resp: 1186760

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.4





#41
Methacrylonitrile
Concen: 109.177 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

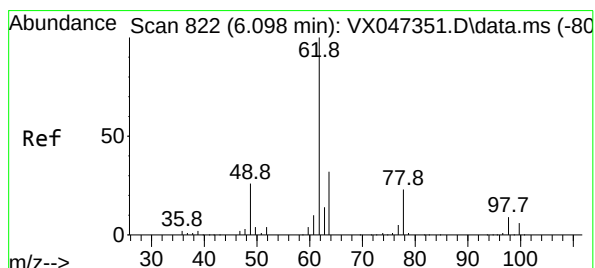
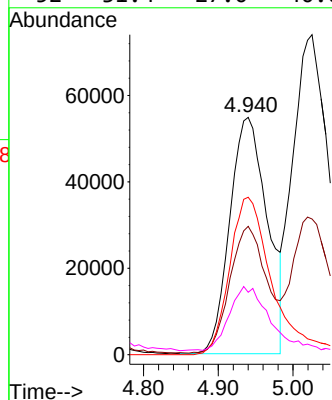
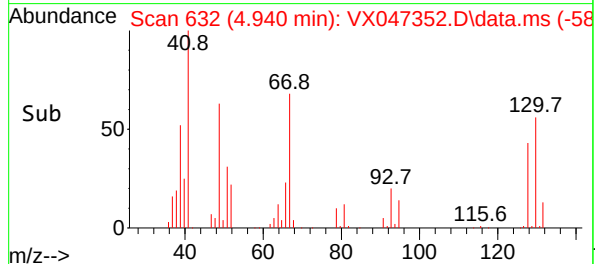
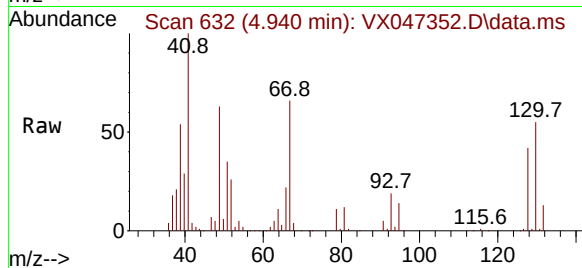
ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 191678
Ion Ratio Lower Upper
41 100
39 53.0 45.4 68.2
67 75.5 64.0 96.0
52 31.4 27.0 40.6

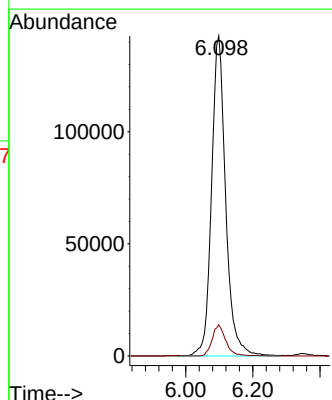
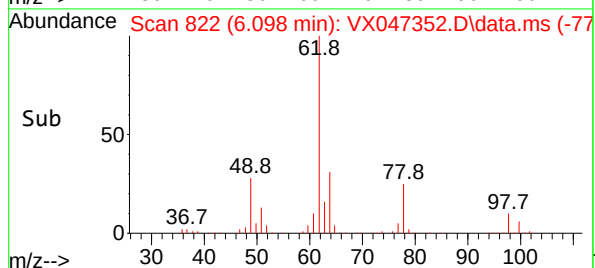
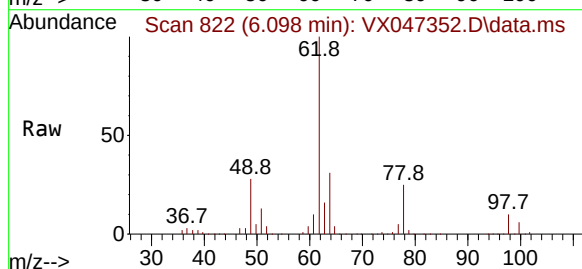
Manual Integrations
APPROVED

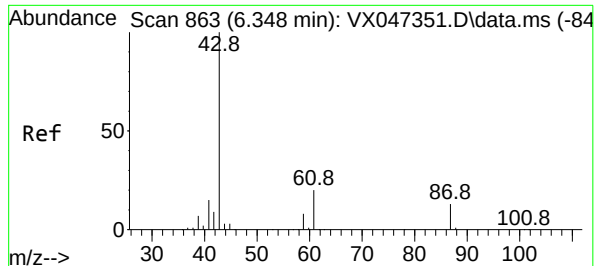
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#42
1,2-Dichloroethane
Concen: 97.940 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 62 Resp: 416430
Ion Ratio Lower Upper
62 100
98 9.3 0.0 18.0





#43

Isopropyl Acetate

Concen: 104.400 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

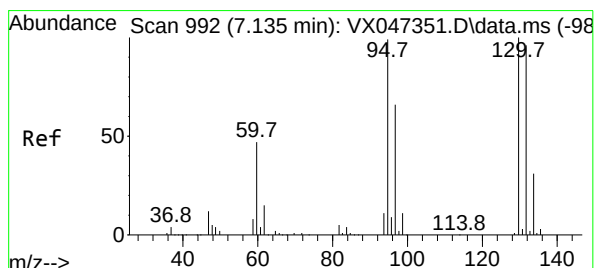
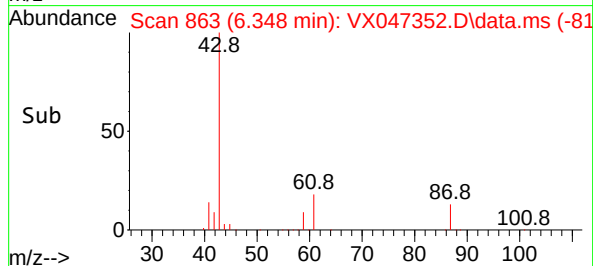
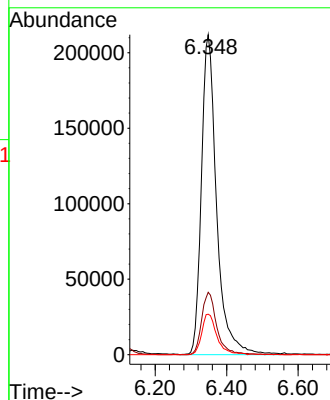
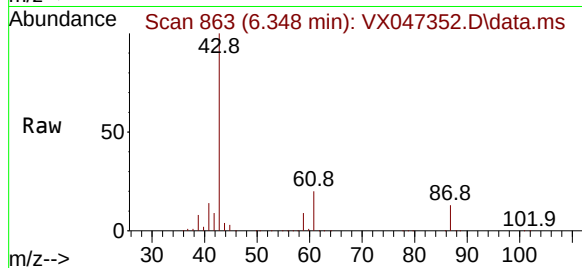
VSTDICC100

Tgt Ion:	43	Resp:	62442
Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.4	23.0
87	12.6	10.2	15.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#44

Trichloroethene

Concen: 99.224 ug/l

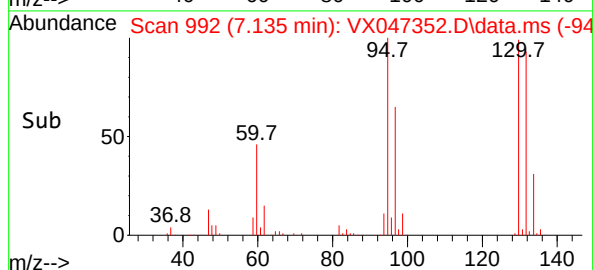
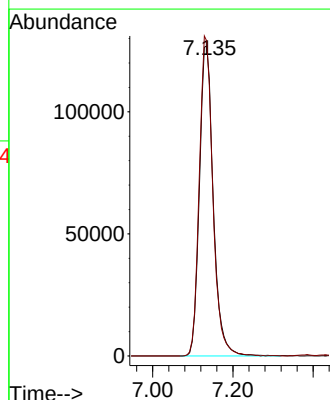
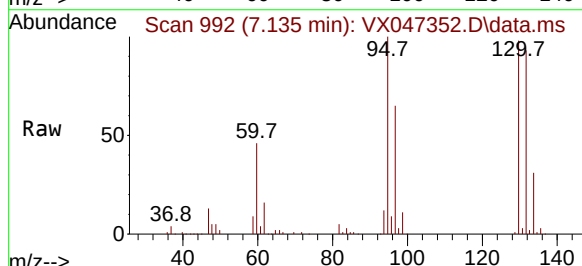
RT: 7.135 min Scan# 992

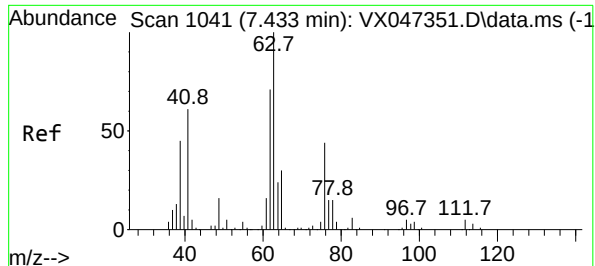
Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Tgt Ion:	130	Resp:	304976
Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	198.6





#45

1,2-Dichloropropane

Concen: 99.300 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 298610

Ion Ratio Lower Upper

63 100

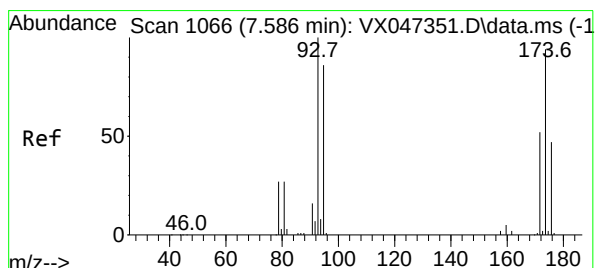
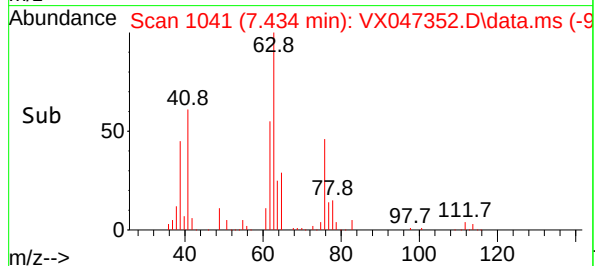
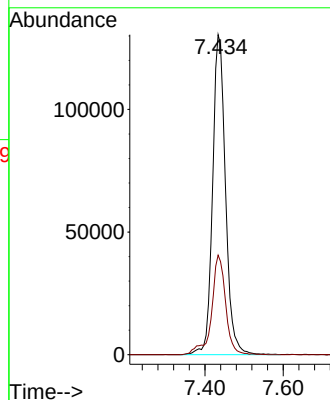
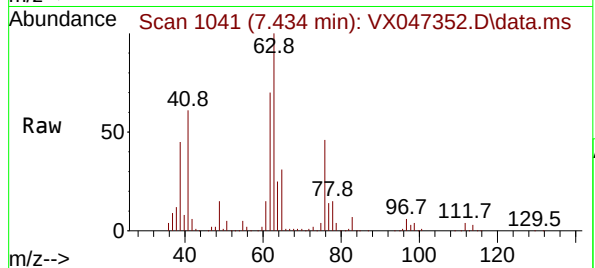
65 31.1 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#46

Dibromomethane

Concen: 98.052 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

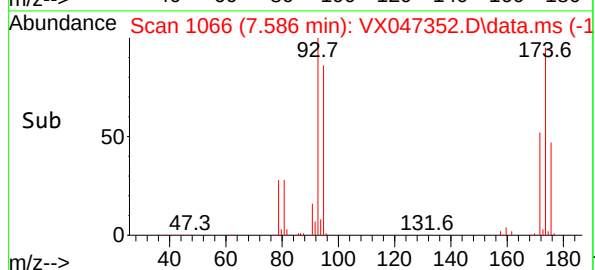
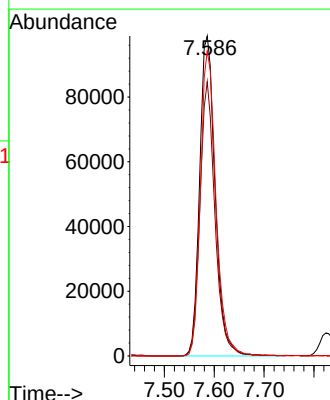
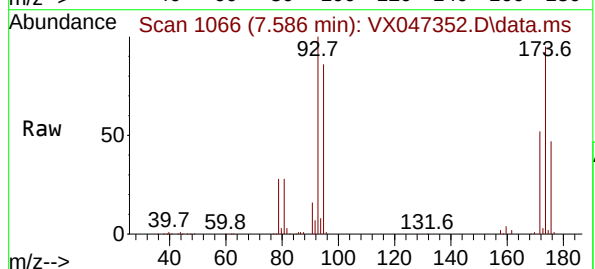
Tgt Ion: 93 Resp: 214069

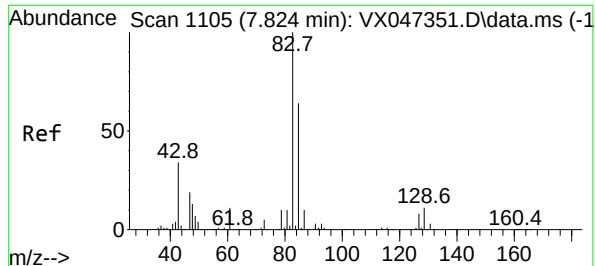
Ion Ratio Lower Upper

93 100

95 83.3 68.0 102.0

174 95.0 75.8 113.6





#47

Bromodichloromethane

Concen: 99.995 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 452578

Ion Ratio Lower Upper

83 100

85 64.0 51.0 76.6

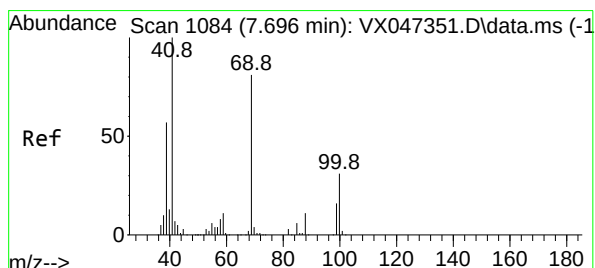
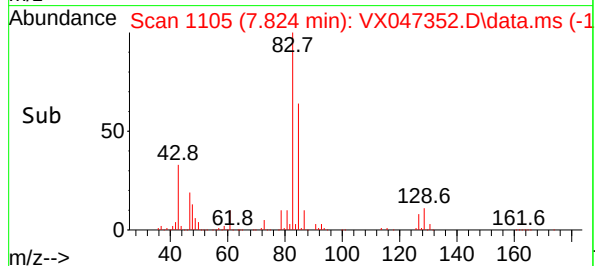
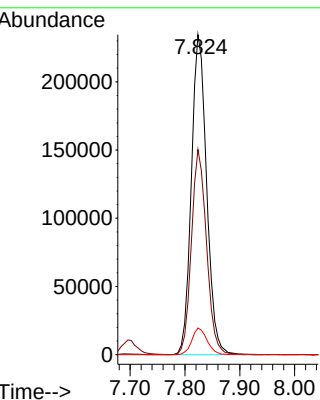
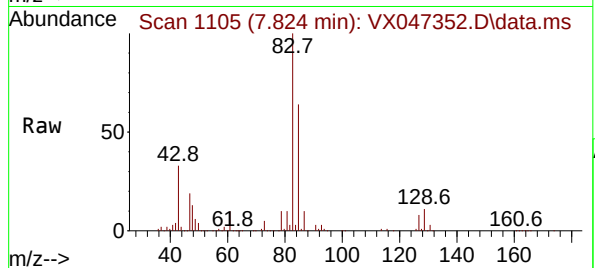
127 8.3 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#48

Methyl methacrylate

Concen: 103.875 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

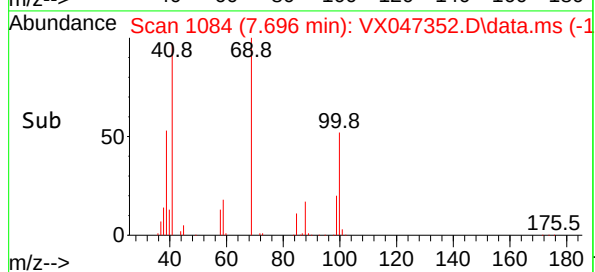
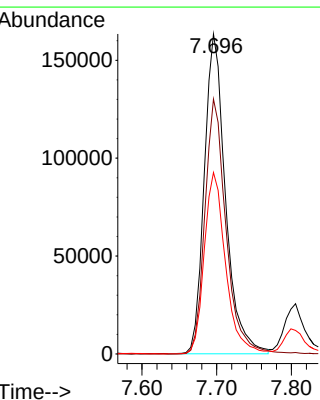
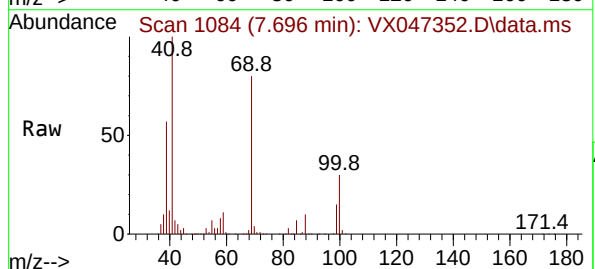
Tgt Ion: 41 Resp: 322487

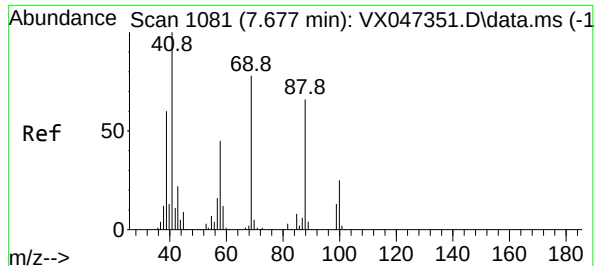
Ion Ratio Lower Upper

41 100

69 79.6 65.0 97.4

39 57.1 45.7 68.5





#49

1,4-Dioxane

Concen: 2073.830 ug/l

RT: 7.684 min Scan# 1082

Delta R.T. 0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 88 Resp: 6114

Ion Ratio Lower Upper

88 100

43 40.9 32.4 48.6

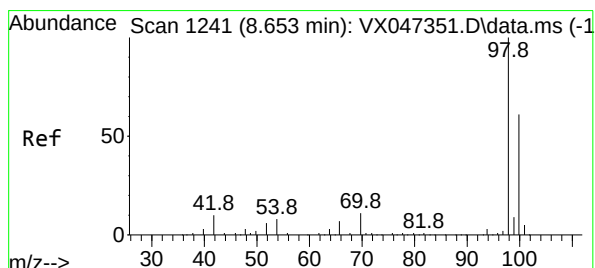
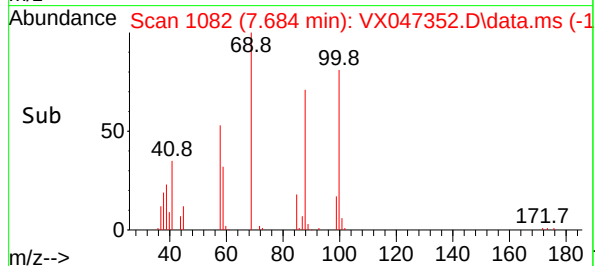
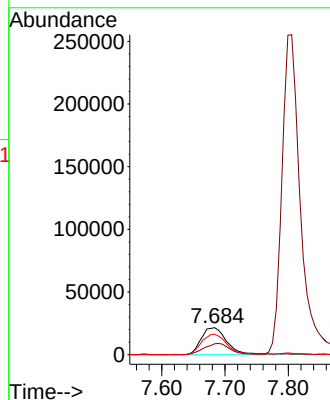
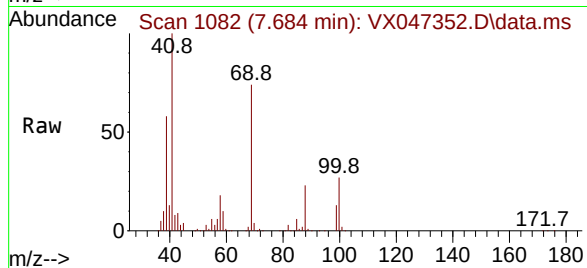
58 74.8 56.9 85.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#50

Toluene-d8

Concen: 107.419 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047352.D

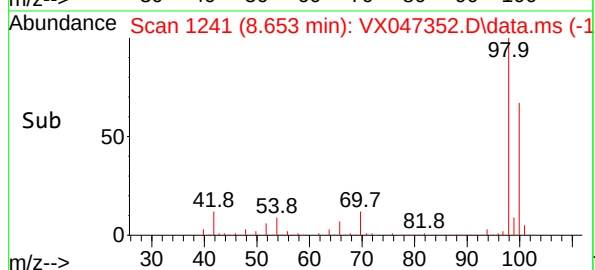
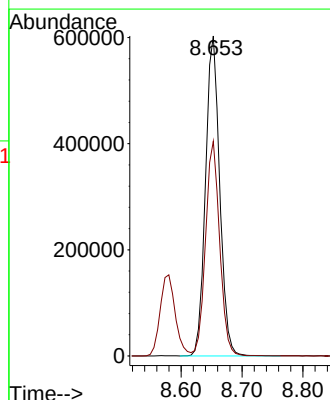
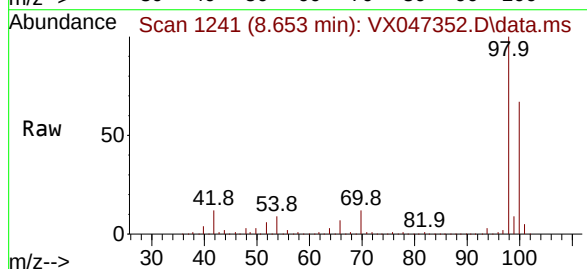
Acq: 15 Aug 2025 10:43

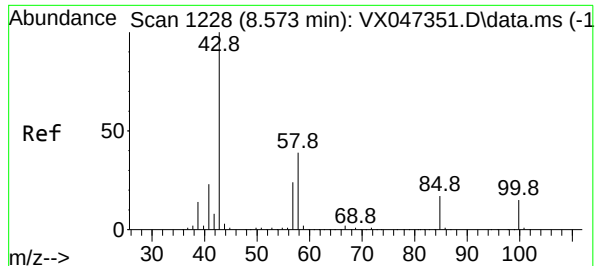
Tgt Ion: 98 Resp: 975414

Ion Ratio Lower Upper

98 100

100 66.7 53.9 80.9





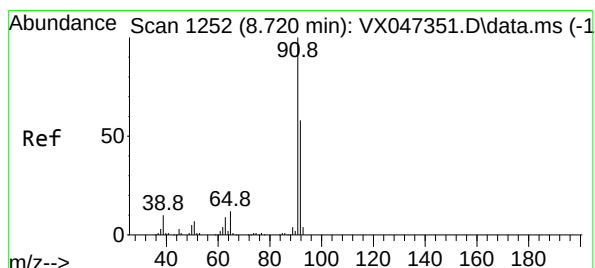
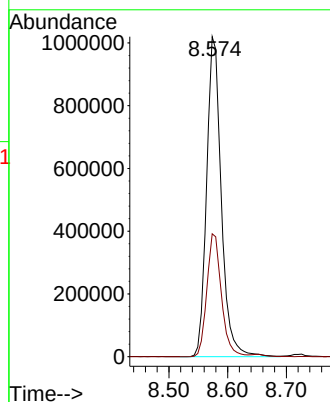
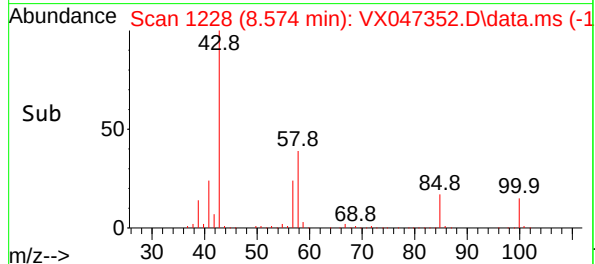
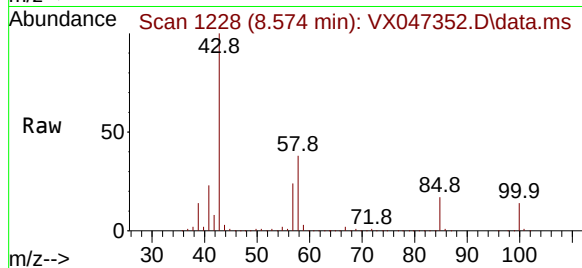
#51
4-Methyl-2-Pentanone
Concen: 513.097 ug/l
RT: 8.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1766000
Ion Ratio Lower Upper
43 100
58 38.2 31.2 46.8

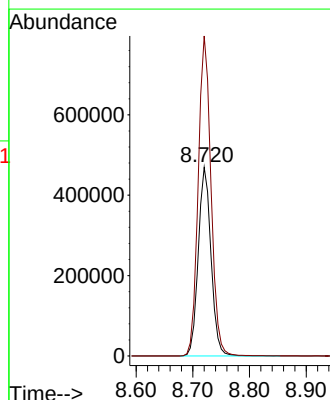
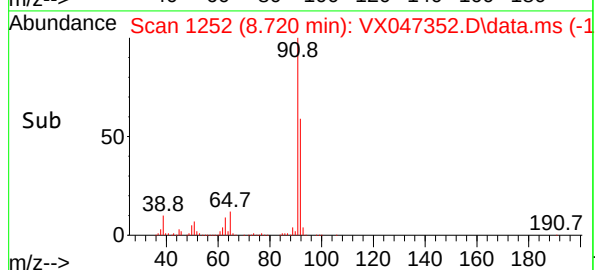
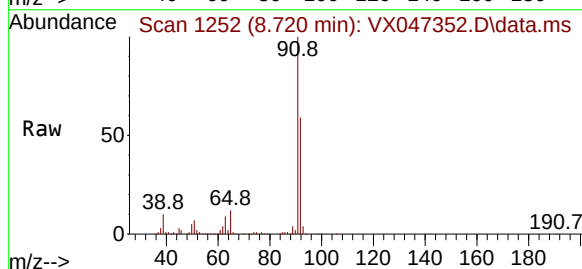
Manual Integrations
APPROVED

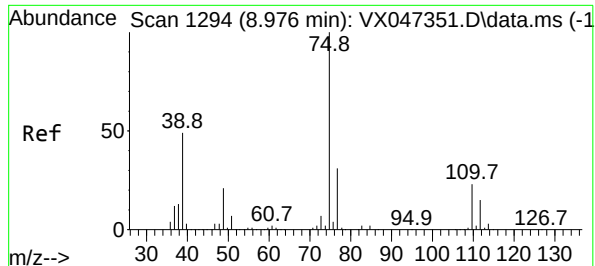
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#52
Toluene
Concen: 98.837 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 92 Resp: 733119
Ion Ratio Lower Upper
92 100
91 170.1 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 107.156 ug/l

RT: 8.982 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 423279

Ion Ratio Lower Upper

75 100

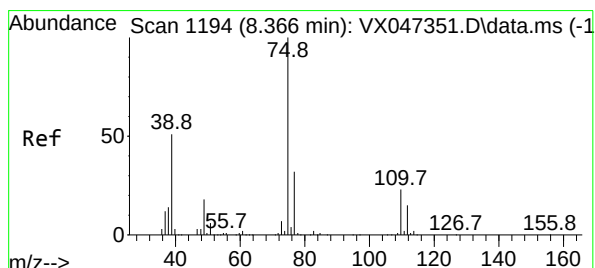
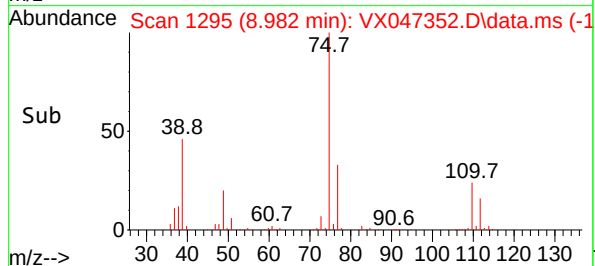
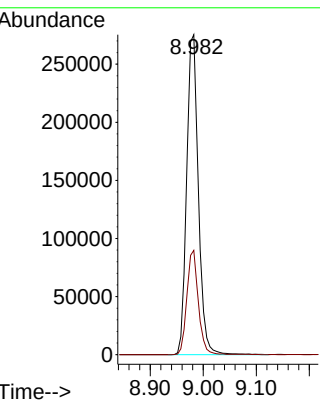
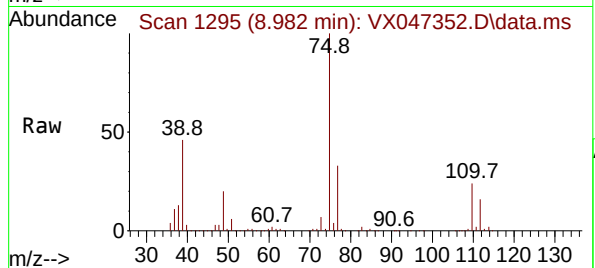
77 32.6 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#54

cis-1,3-Dichloropropene

Concen: 103.698 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

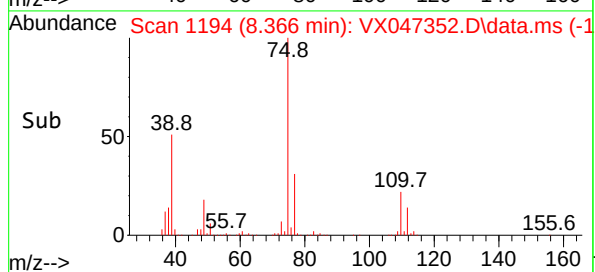
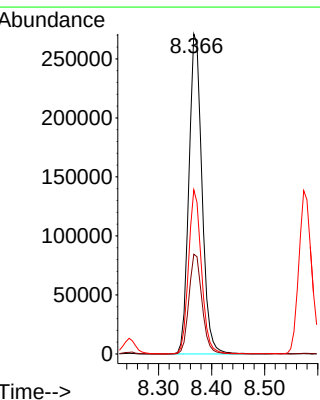
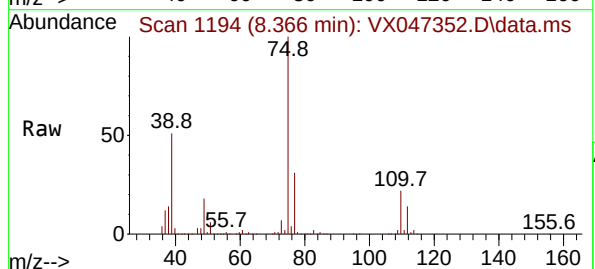
Tgt Ion: 75 Resp: 463640

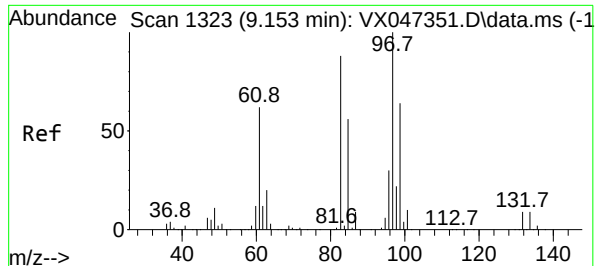
Ion Ratio Lower Upper

75 100

77 31.2 25.6 38.4

39 51.2 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 97.863 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 97 Resp: 27560

Ion Ratio Lower Upper

97 100

83 86.3 70.6 106.0

85 55.0 44.7 67.1

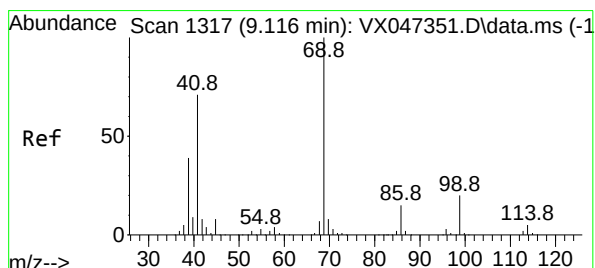
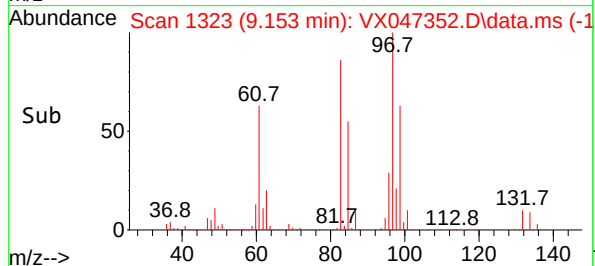
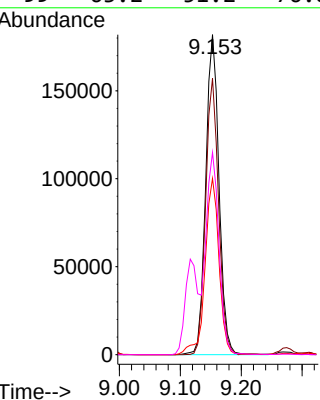
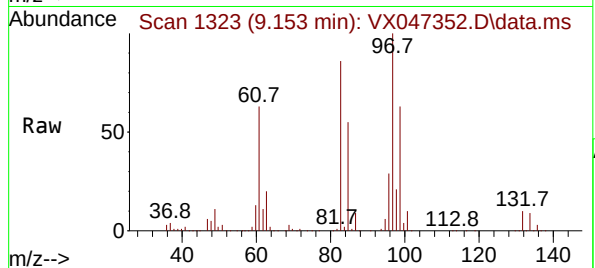
99 63.2 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#56

Ethyl methacrylate

Concen: 106.154 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

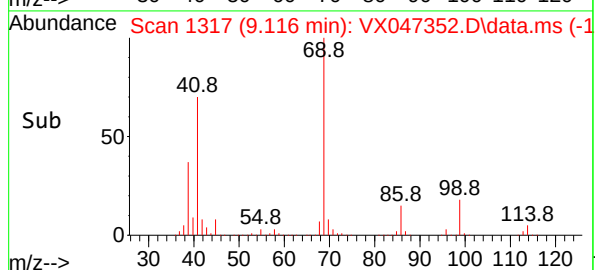
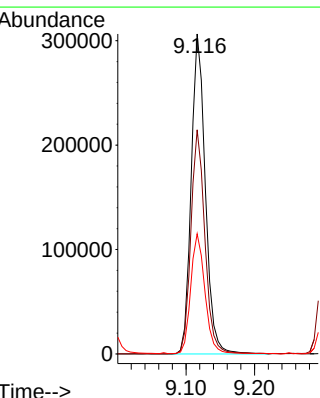
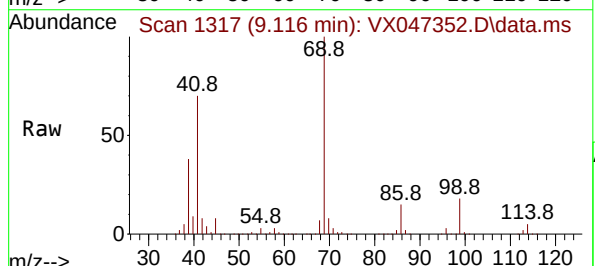
Tgt Ion: 69 Resp: 440765

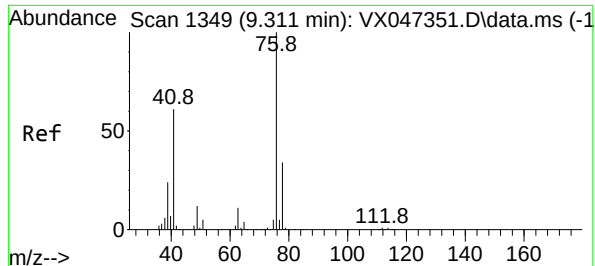
Ion Ratio Lower Upper

69 100

41 69.4 55.3 82.9

39 37.6 30.2 45.2





#57

1,3-Dichloropropane

Concen: 97.899 ug/l

RT: 9.311 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 469804

Ion Ratio Lower Upper

76 100

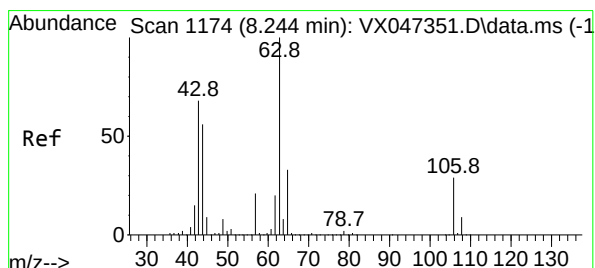
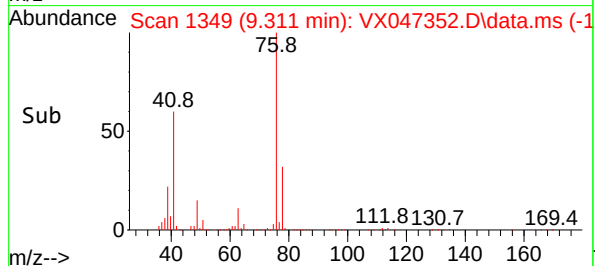
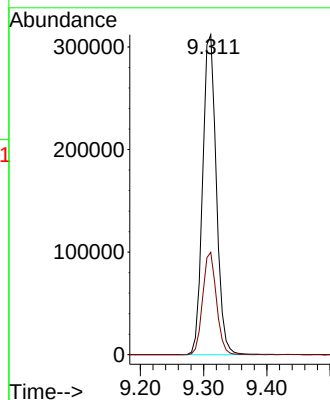
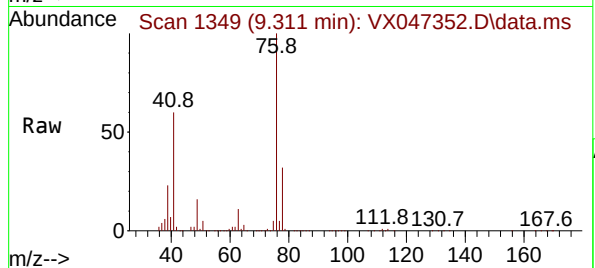
78 32.2 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 496.016 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047352.D

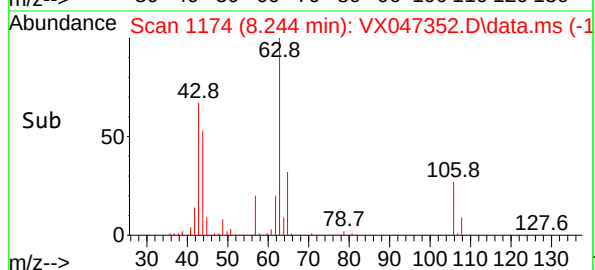
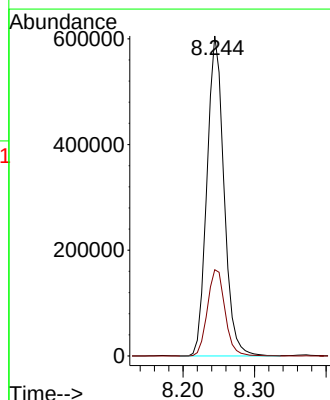
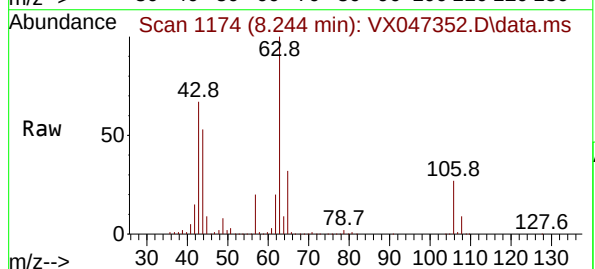
Acq: 15 Aug 2025 10:43

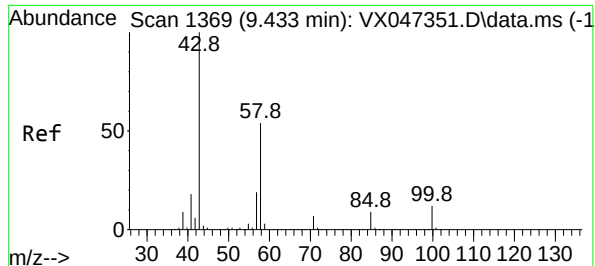
Tgt Ion: 63 Resp: 1000312

Ion Ratio Lower Upper

63 100

106 27.9 22.8 34.2





#59

2-Hexanone

Concen: 510.384 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 1215128

Ion Ratio Lower Upper

43 100

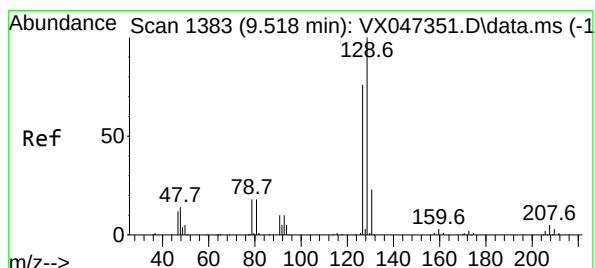
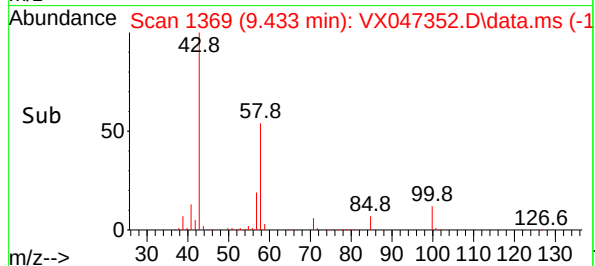
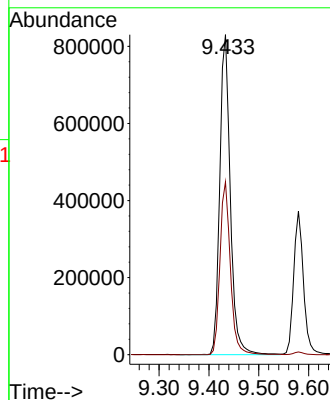
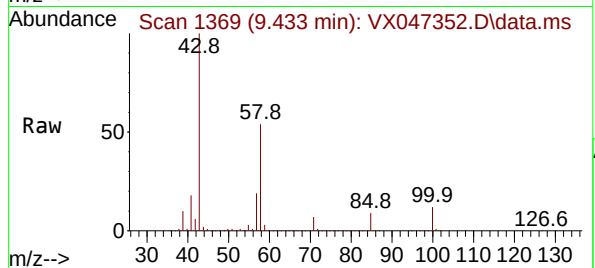
58 53.7 26.9 80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#60

Dibromochloromethane

Concen: 99.621 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047352.D

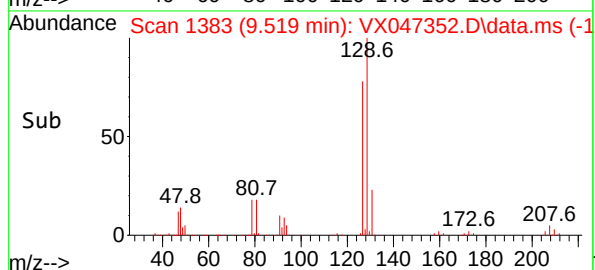
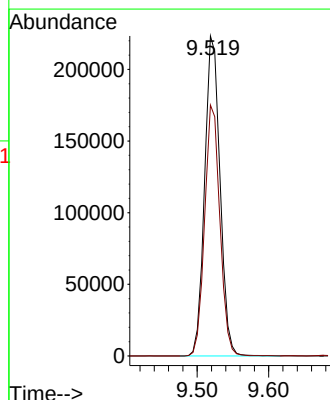
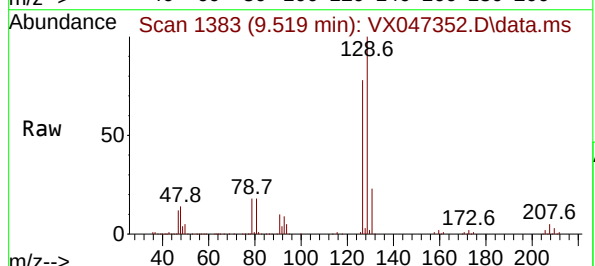
Acq: 15 Aug 2025 10:43

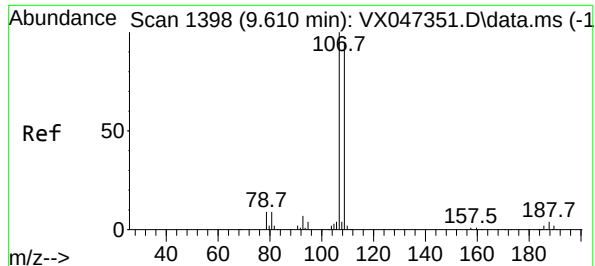
Tgt Ion:129 Resp: 333420

Ion Ratio Lower Upper

129 100

127 77.7 38.9 116.6





#61

1,2-Dibromoethane

Concen: 98.420 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:107 Resp: 28582

Ion Ratio Lower Upper

107 100

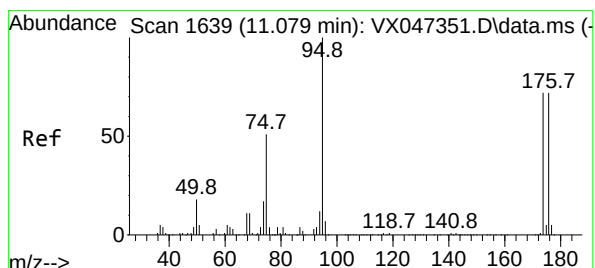
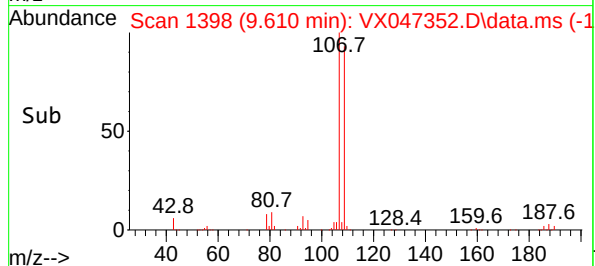
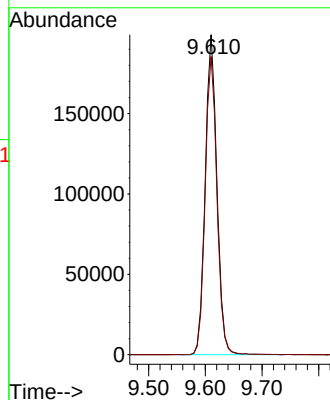
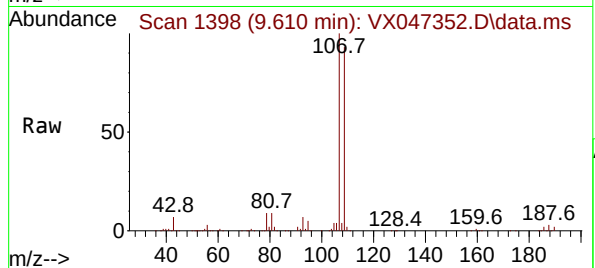
109 93.7 76.2 114.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#62

4-Bromofluorobenzene

Concen: 105.546 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

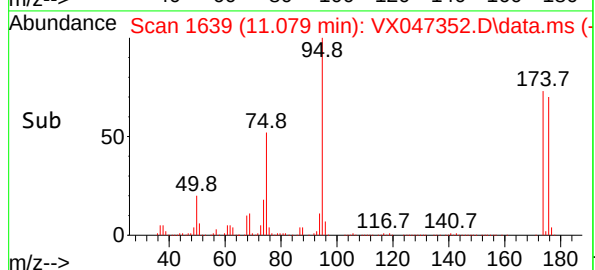
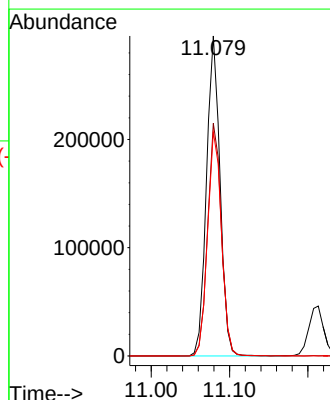
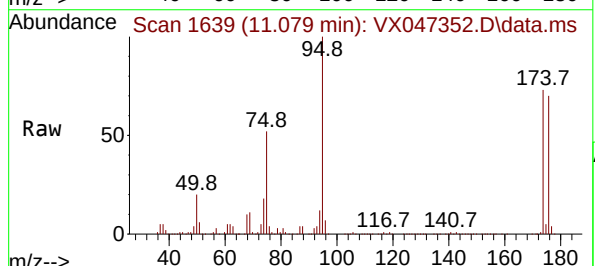
Tgt Ion: 95 Resp: 353668

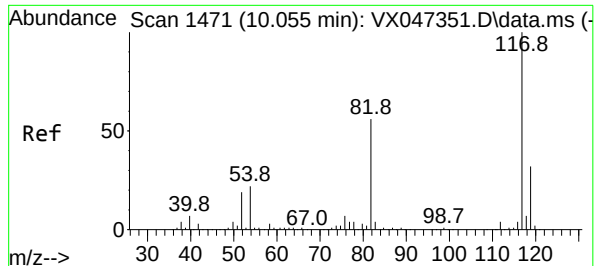
Ion Ratio Lower Upper

95 100

174 73.7 0.0 148.0

176 71.9 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

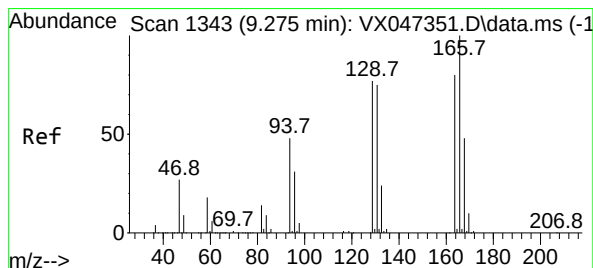
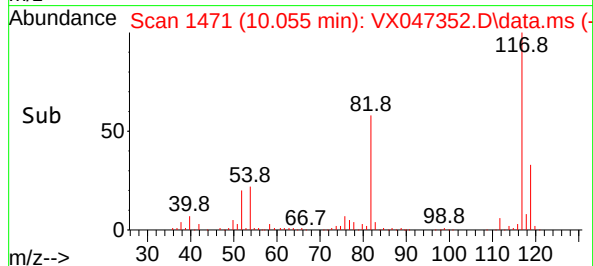
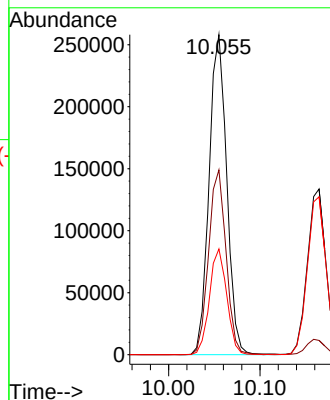
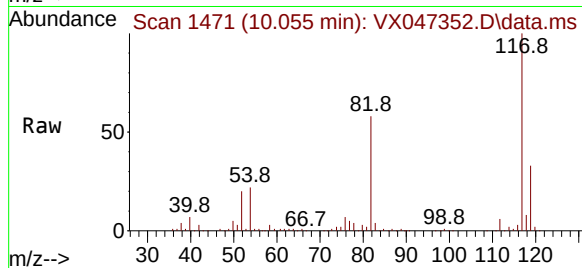
VSTDICC100

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.7	45.0	67.4
119	33.1	25.8	38.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#64

Tetrachloroethene

Concen: 99.506 ug/l

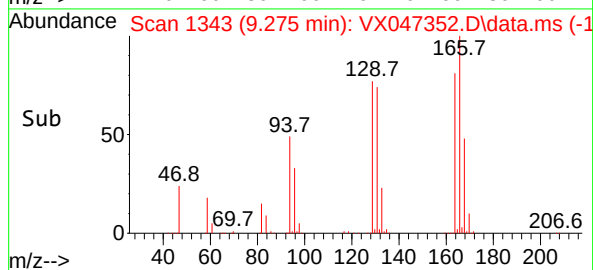
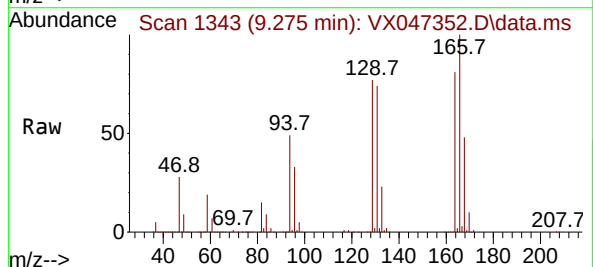
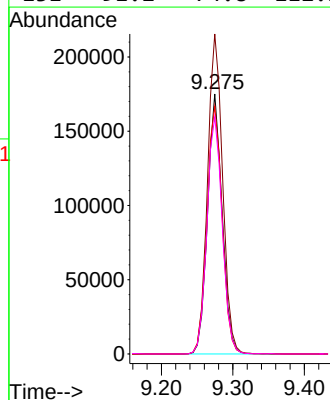
RT: 9.275 min Scan# 1343

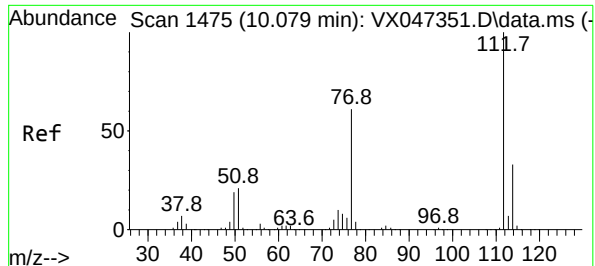
Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.1	100.3	150.5
129	95.2	77.7	116.5
131	91.2	74.8	112.2





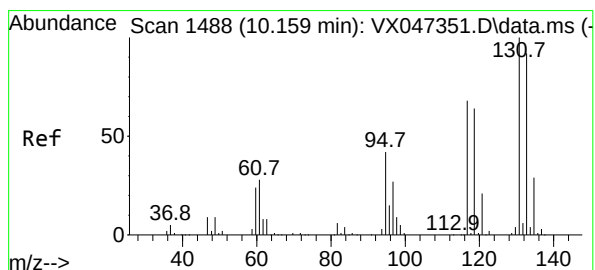
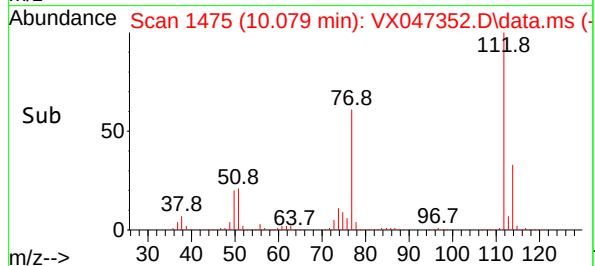
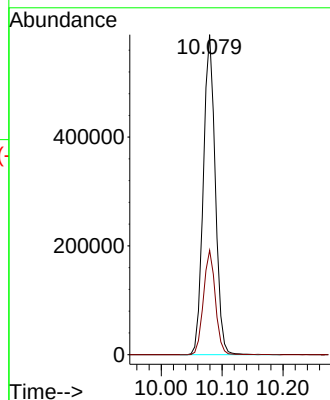
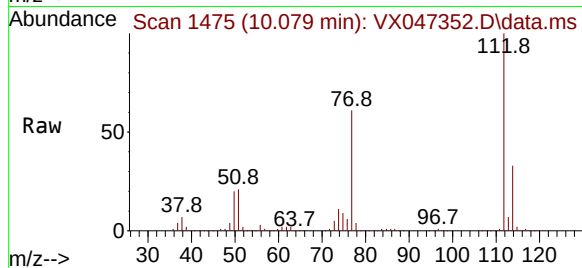
#65
Chlorobenzene
Concen: 97.887 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 803672
Ion Ratio Lower Upper
112 100
114 32.6 26.4 39.6

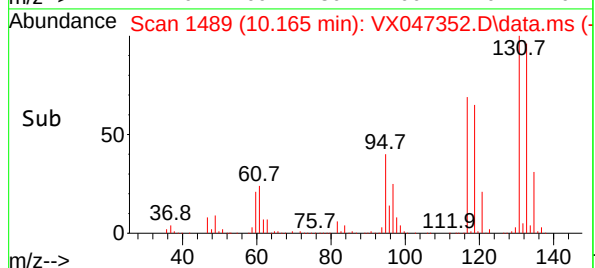
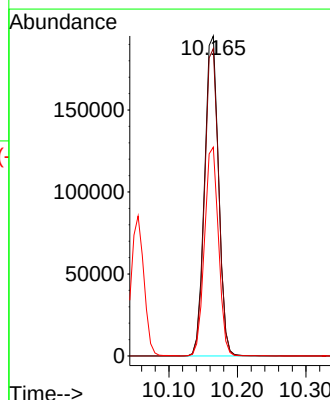
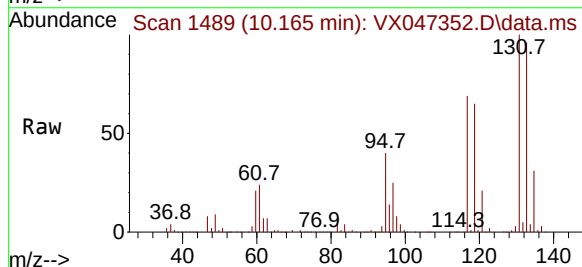
Manual Integrations
APPROVED

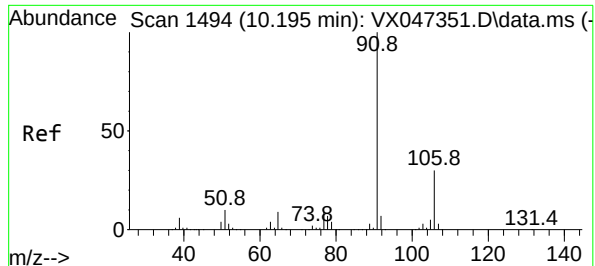
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 100.380 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion:131 Resp: 278595
Ion Ratio Lower Upper
131 100
133 96.4 47.6 142.9
119 65.3 32.3 96.8





#67

Ethyl Benzene

Concen: 100.832 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 1424862

Ion Ratio Lower Upper

91 100

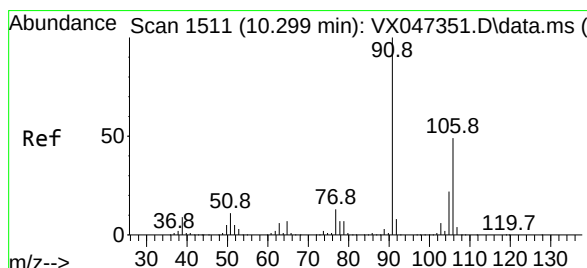
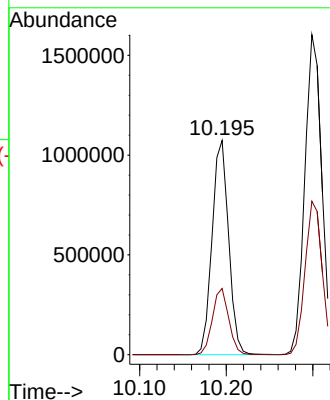
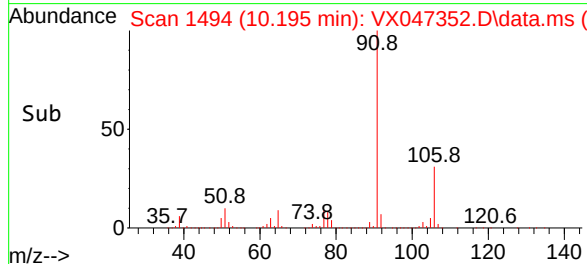
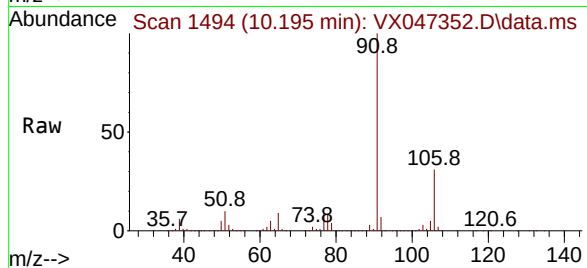
106 30.9 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#68

m/p-Xylenes

Concen: 200.518 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX047352.D

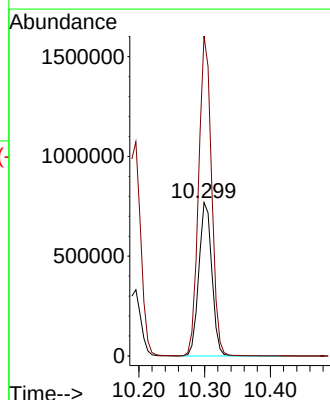
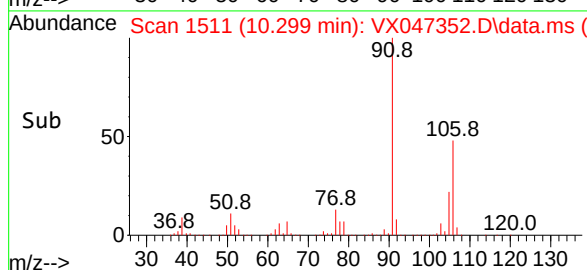
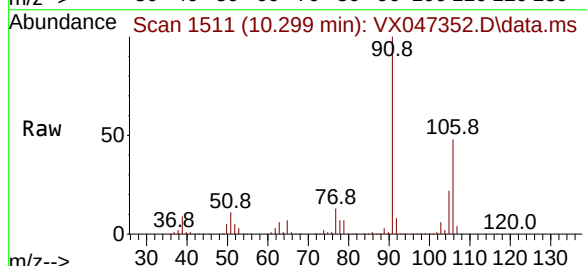
Acq: 15 Aug 2025 10:43

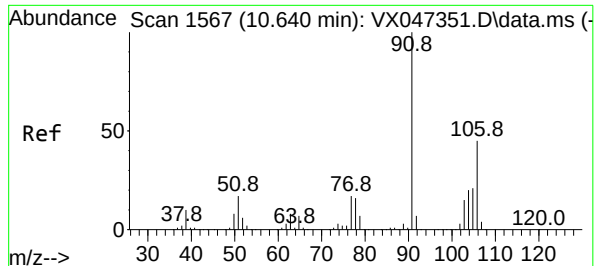
Tgt Ion:106 Resp: 1056553

Ion Ratio Lower Upper

106 100

91 207.5 164.7 247.1





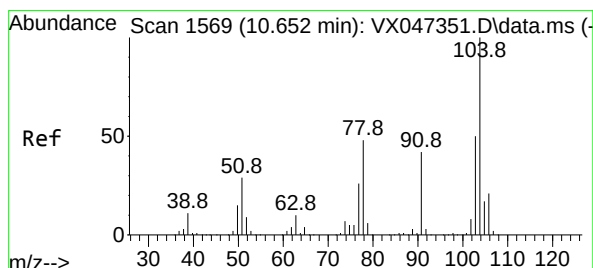
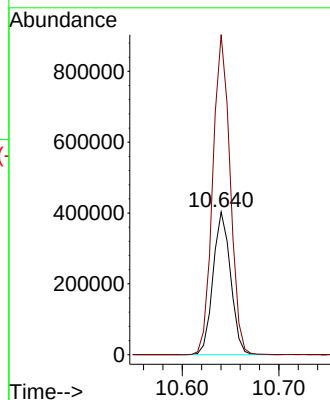
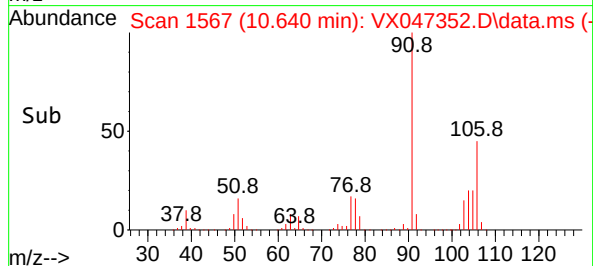
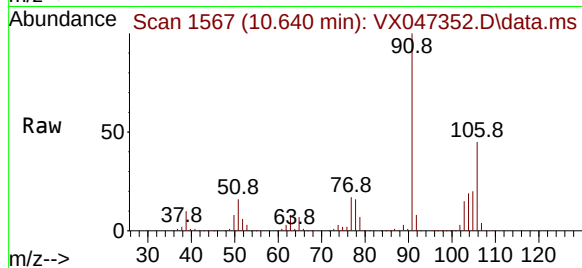
#69
o-Xylene
Concen: 100.188 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 508020
Ion Ratio Lower Upper
106 100
91 222.6 110.6 331.8

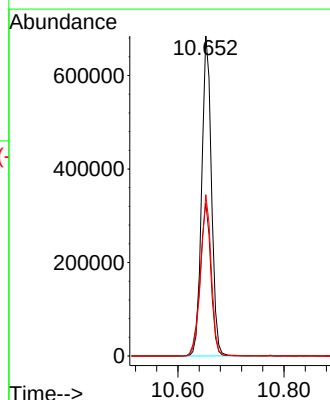
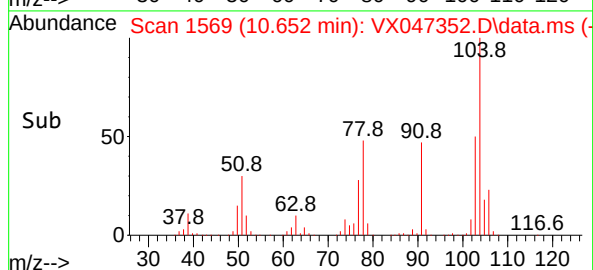
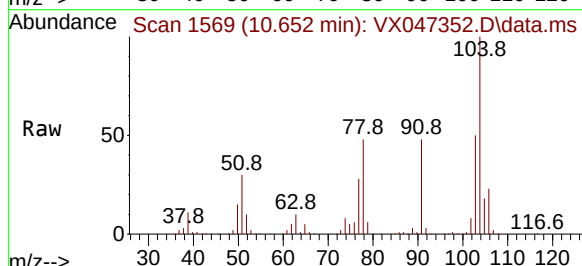
Manual Integrations
APPROVED

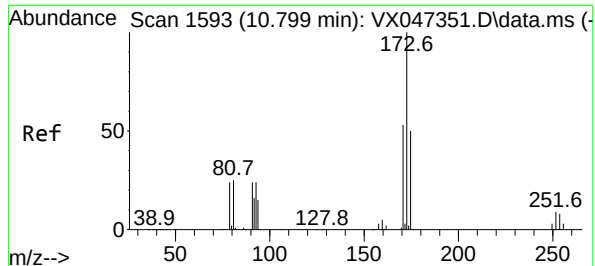
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#70
Styrene
Concen: 102.509 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

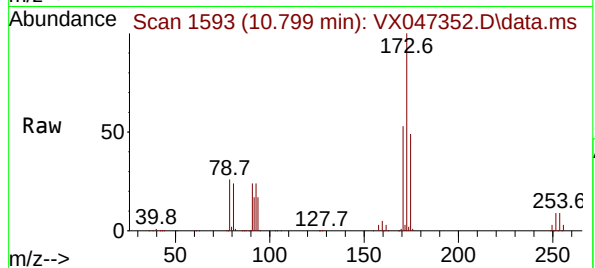
Tgt Ion:104 Resp: 878271
Ion Ratio Lower Upper
104 100
78 52.5 41.8 62.8
103 54.2 43.6 65.4





#71
Bromoform
Concen: 101.376 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

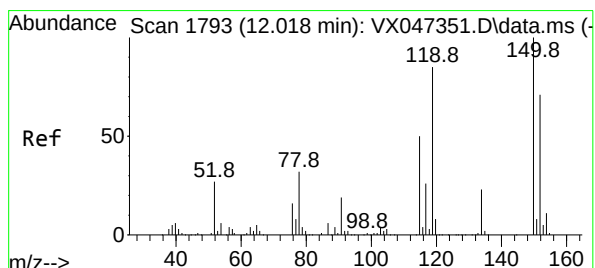
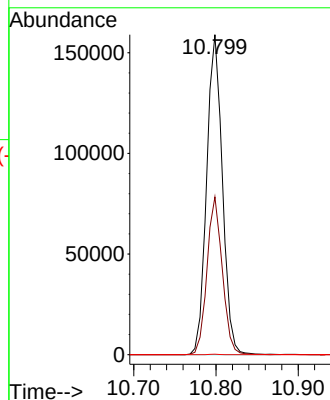
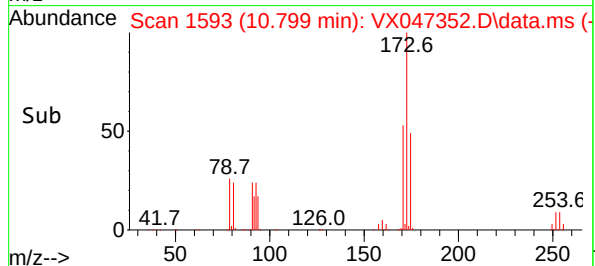
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



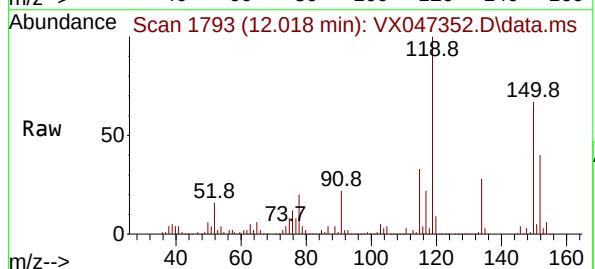
Tgt Ion:173 Resp: 211374
Ion Ratio Lower Upper
173 100
175 47.9 24.4 73.4
254 0.1 0.1 0.1

Manual Integrations
APPROVED

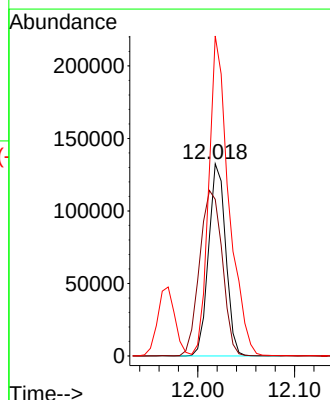
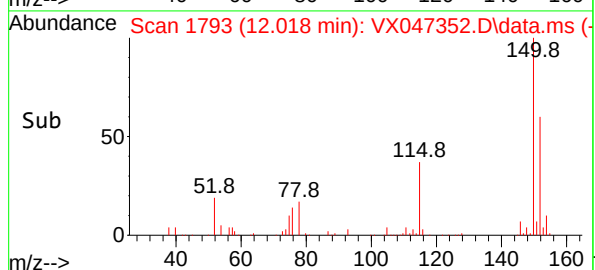
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

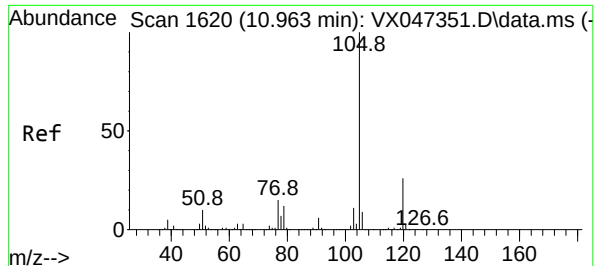


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43



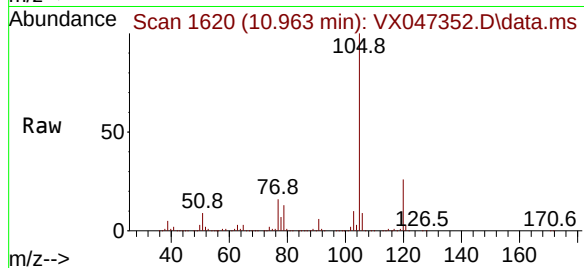
Tgt Ion:152 Resp: 163776
Ion Ratio Lower Upper
152 100
115 113.9 44.6 133.8
150 194.8 0.0 349.8





#73
Isopropylbenzene
Concen: 103.466 ug/l
RT: 10.963 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

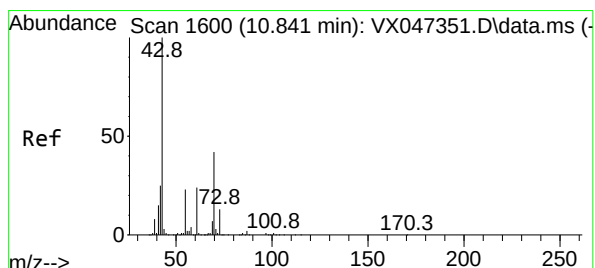
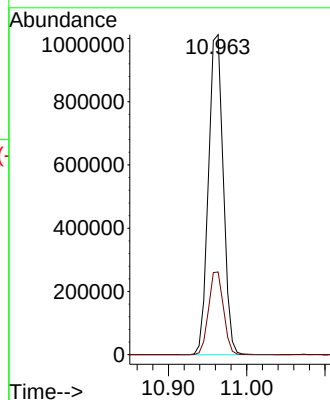
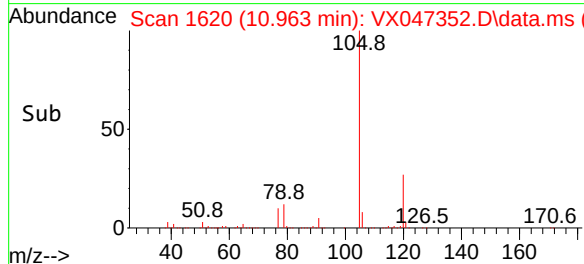
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



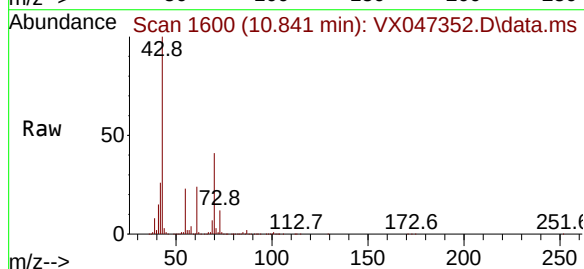
Tgt Ion:105 Resp: 132604
Ion Ratio Lower Upper
105 100
120 26.0 12.9 38.6

Manual Integrations
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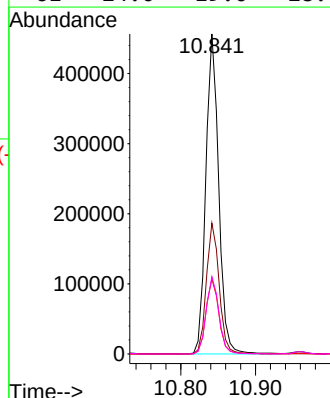
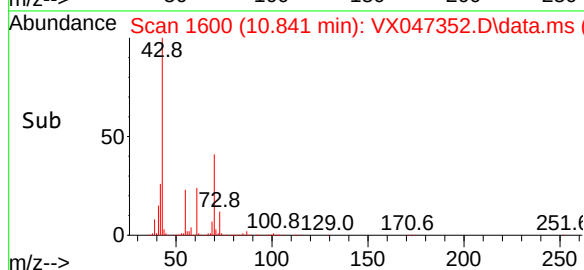
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

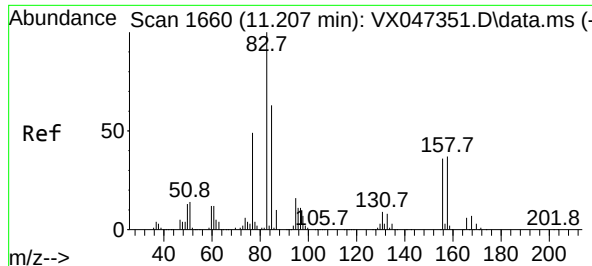


#74
N-ethyl acetate
Concen: 111.573 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43



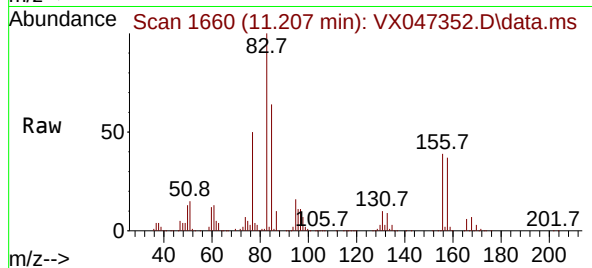
Tgt Ion: 43 Resp: 543008
Ion Ratio Lower Upper
43 100
70 40.9 33.1 49.7
55 23.6 19.0 28.6
61 24.0 19.0 28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 99.448 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

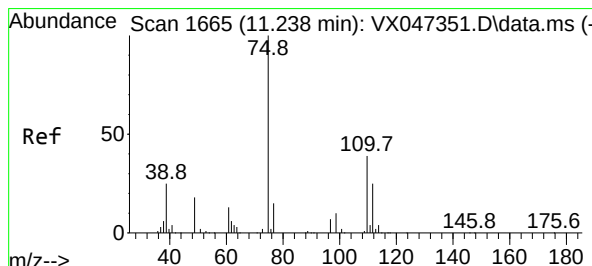
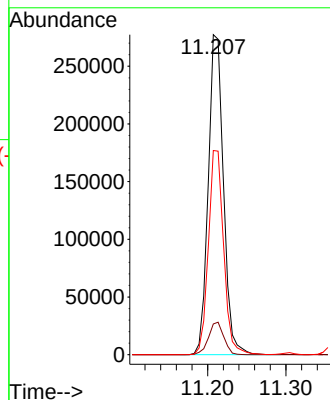
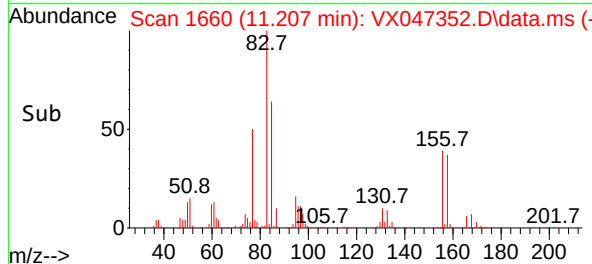
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 83 Resp: 374215
Ion Ratio Lower Upper
83 100
131 10.2 5.0 15.0
85 63.9 31.7 95.1

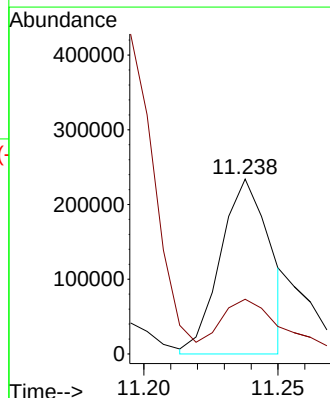
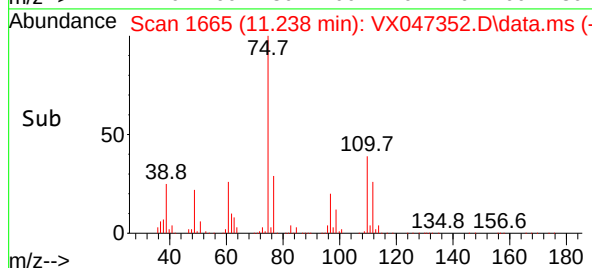
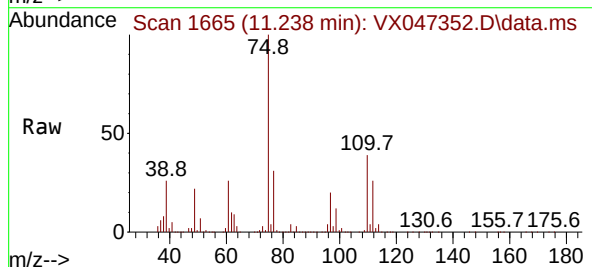
Manual Integrations
APPROVED

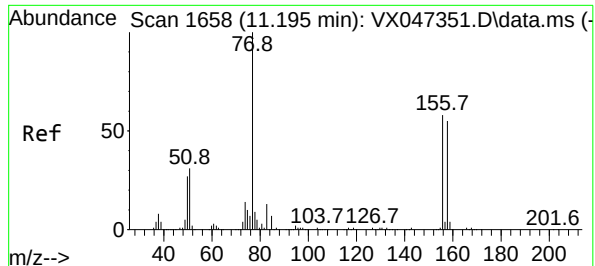
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#76
1,2,3-Trichloropropane
Concen: 100.238 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

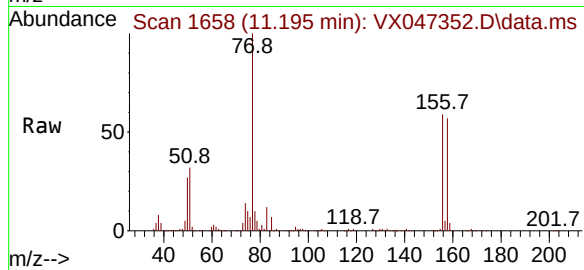
Tgt Ion: 75 Resp: 301098
Ion Ratio Lower Upper
75 100
77 39.8 19.4 58.2





#77
Bromobenzene
Concen: 102.397 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

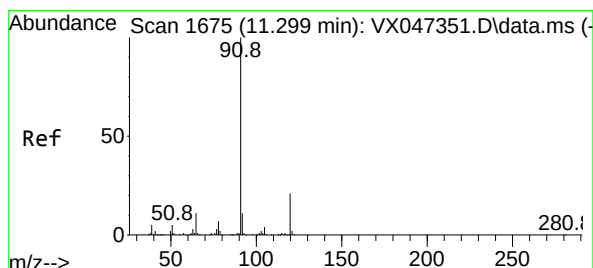
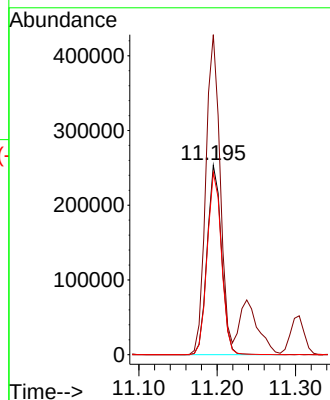
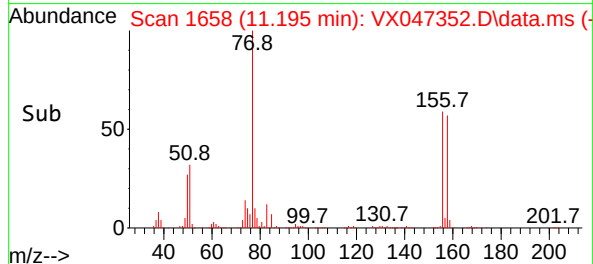
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 156 Resp: 320460
Ion Ratio Lower Upper
156 100
77 170.5 86.3 258.9
158 96.6 48.0 144.2

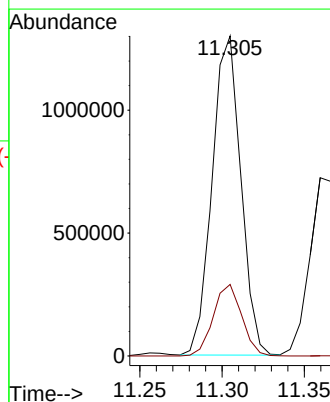
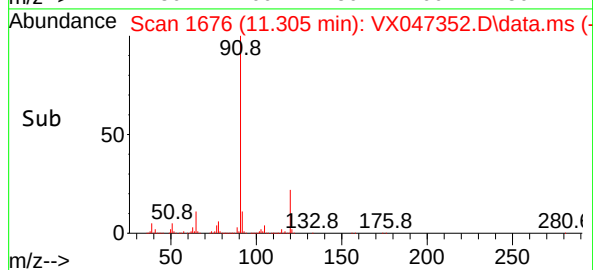
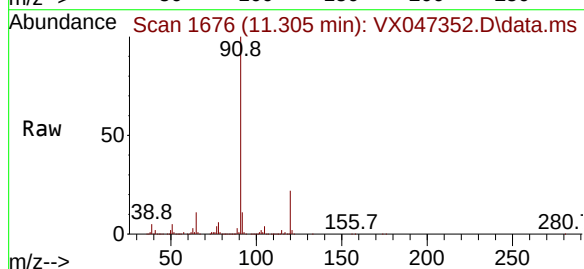
Manual Integrations
APPROVED

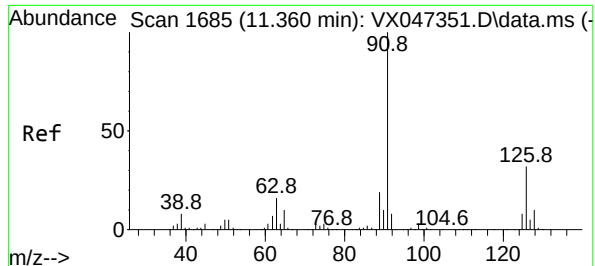
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#78
n-propylbenzene
Concen: 103.081 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 91 Resp: 1577819
Ion Ratio Lower Upper
91 100
120 22.2 11.0 33.0





#79

2-Chlorotoluene

Concen: 100.105 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 92626

Ion Ratio Lower Upper

91 100

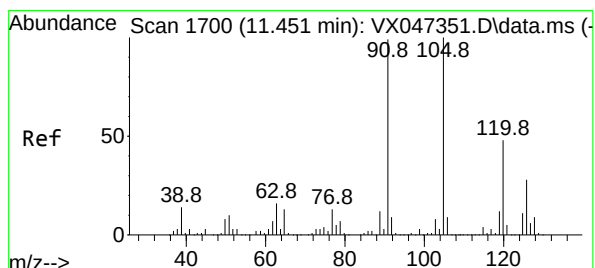
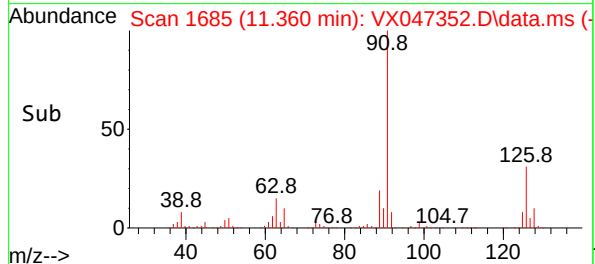
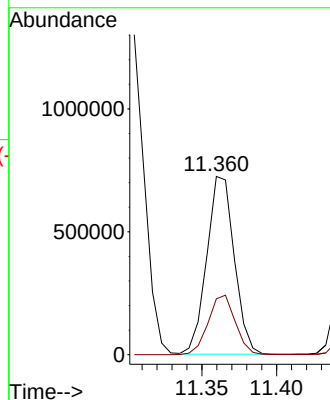
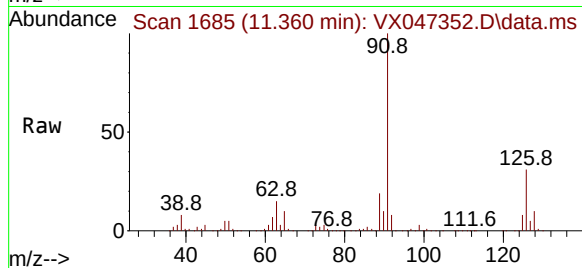
126 33.0 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 102.852 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX047352.D

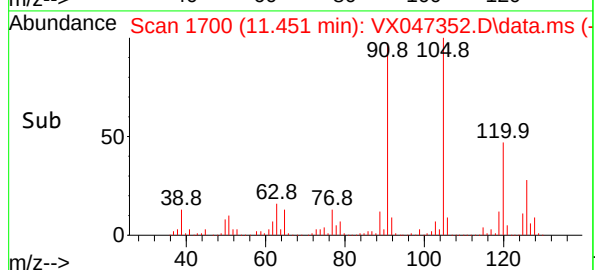
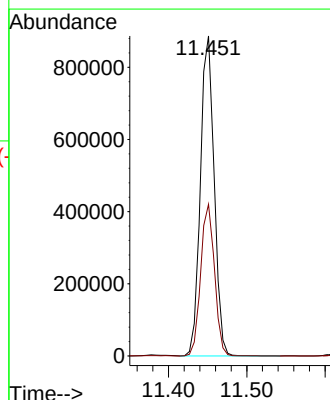
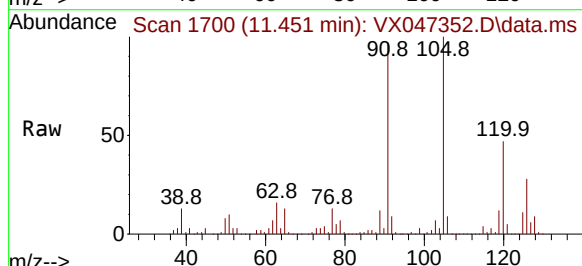
Acq: 15 Aug 2025 10:43

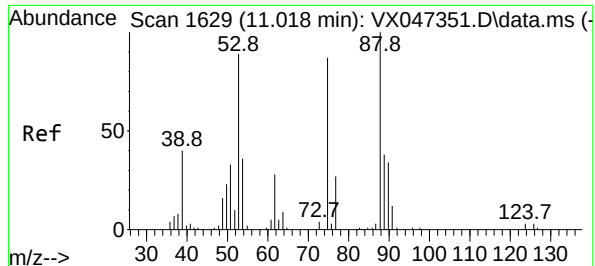
Tgt Ion:105 Resp: 1084580

Ion Ratio Lower Upper

105 100

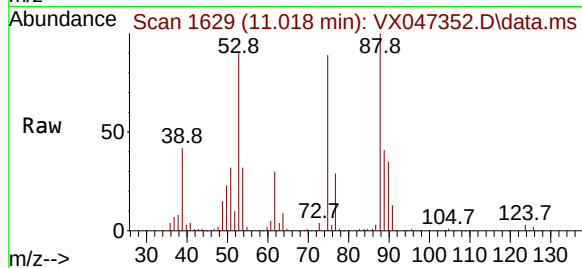
120 47.5 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 93.696 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

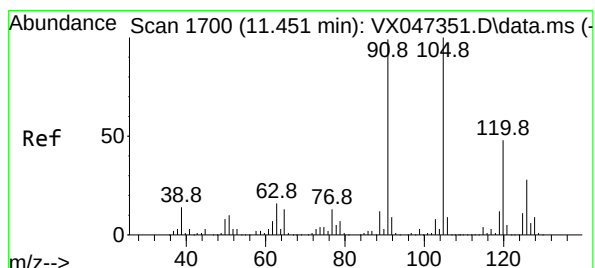
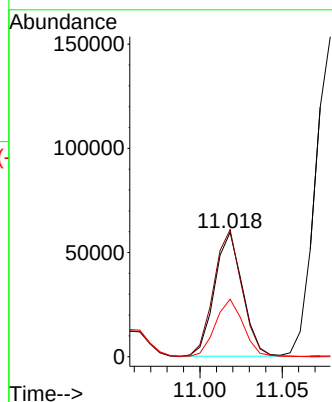
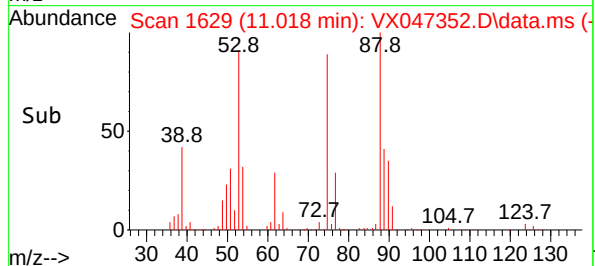
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



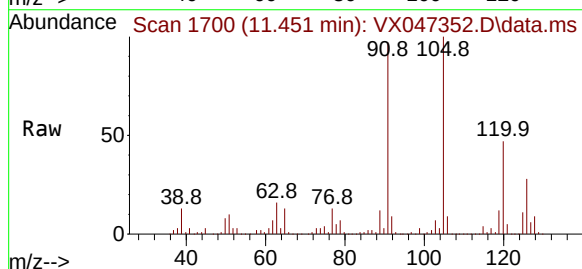
Tgt Ion: 75 Resp: 70384
Ion Ratio Lower Upper
75 100
53 103.8 85.2 127.8
89 46.5 36.7 55.1

Manual Integrations
APPROVED

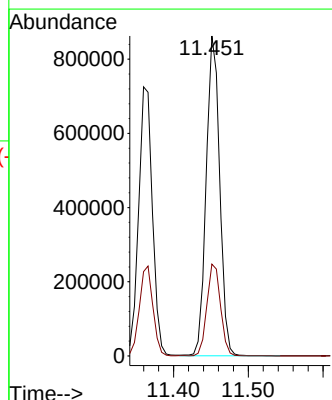
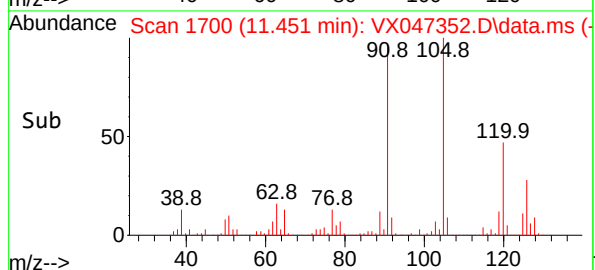
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

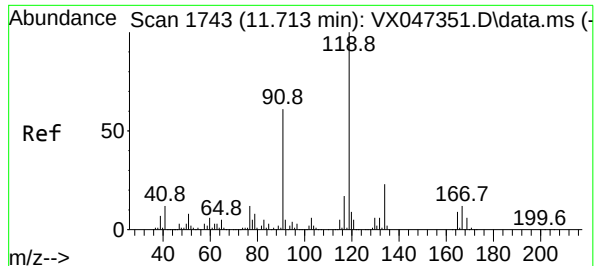


#82
4-Chlorotoluene
Concen: 99.058 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43



Tgt Ion: 91 Resp: 1080450
Ion Ratio Lower Upper
91 100
126 29.1 14.4 43.0





#83

tert-Butylbenzene

Concen: 103.803 ug/l

RT: 11.713 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 1092054

Ion Ratio Lower Upper

119 100

91 59.5 29.1 87.4

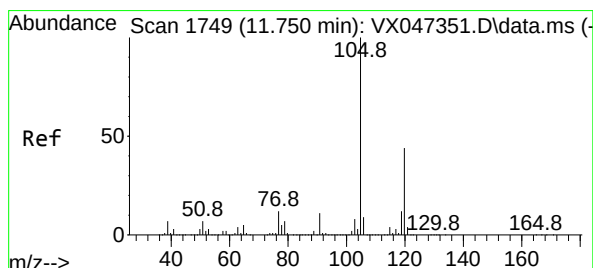
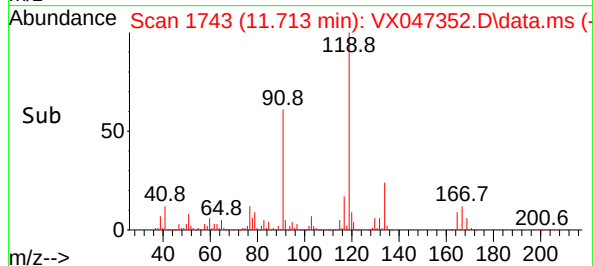
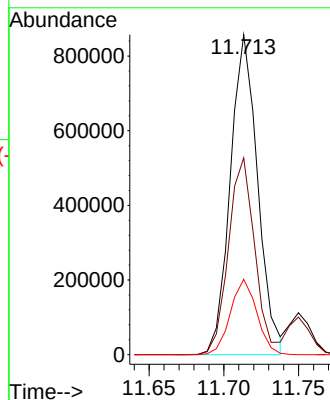
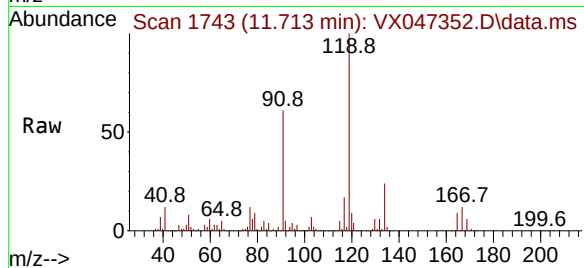
134 22.8 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 103.064 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047352.D

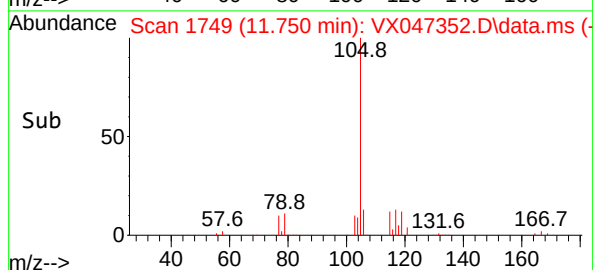
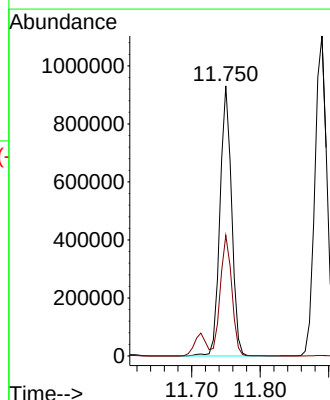
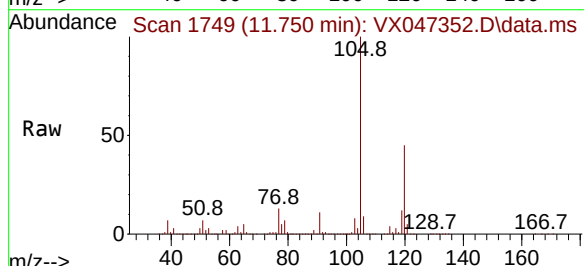
Acq: 15 Aug 2025 10:43

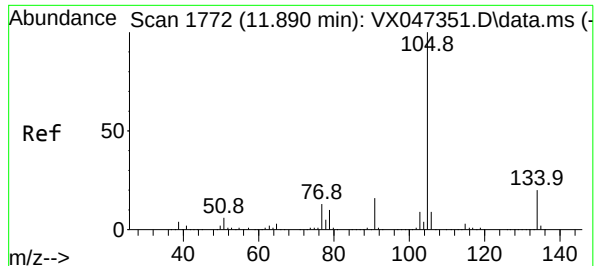
Tgt Ion:105 Resp: 1086843

Ion Ratio Lower Upper

105 100

120 44.4 21.9 65.7





#85

sec-Butylbenzene

Concen: 103.010 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 134322

Ion Ratio Lower Upper

105 100

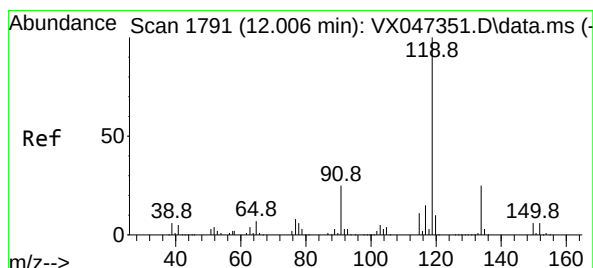
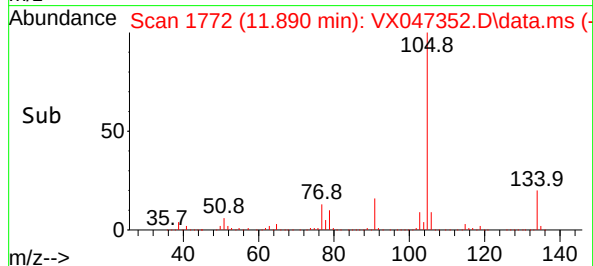
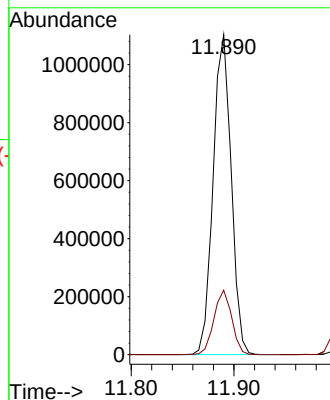
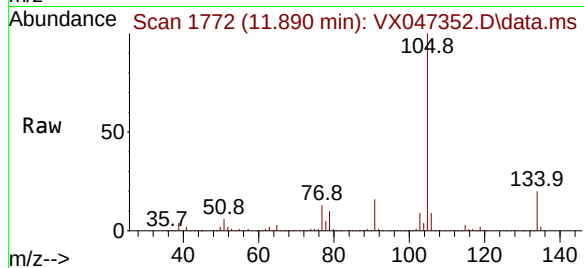
134 19.9 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#86

p-Isopropyltoluene

Concen: 101.405 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

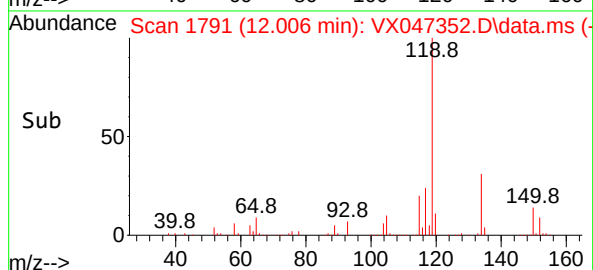
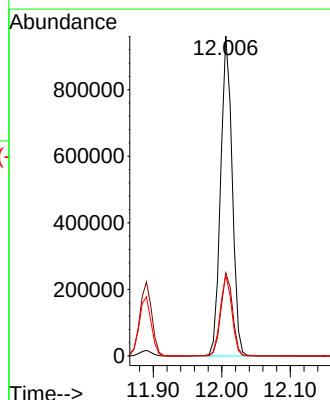
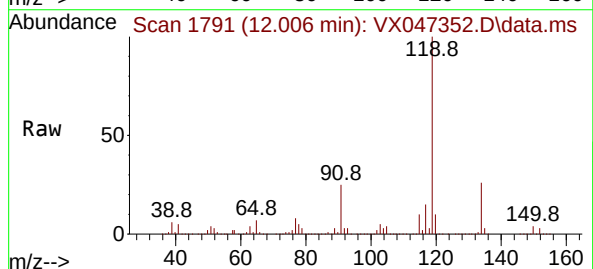
Tgt Ion:119 Resp: 1118938

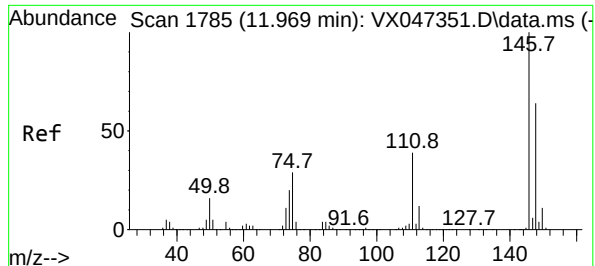
Ion Ratio Lower Upper

119 100

134 26.1 12.8 38.4

91 25.2 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 99.223 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 59323

Ion Ratio Lower Upper

146 100

111 40.9 20.6 61.8

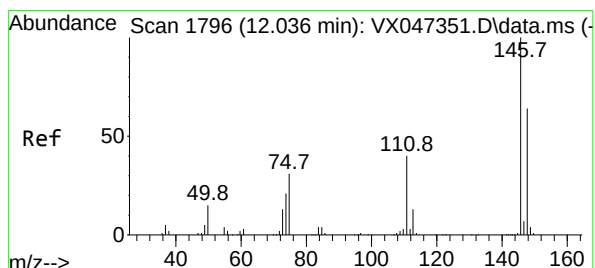
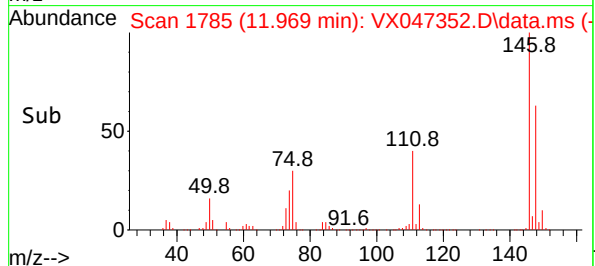
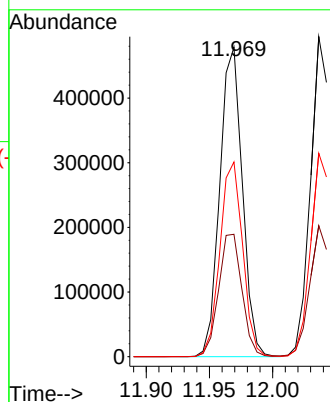
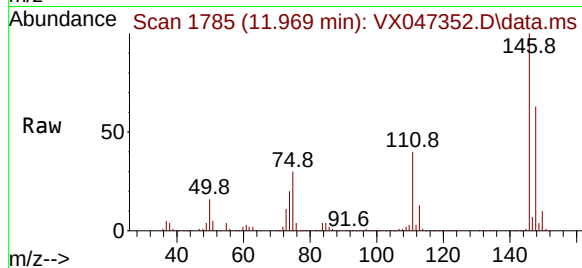
148 63.4 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#88

1,4-Dichlorobenzene

Concen: 95.231 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

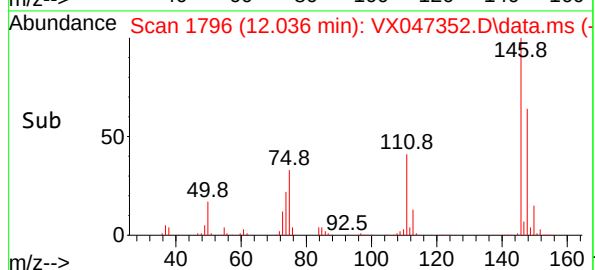
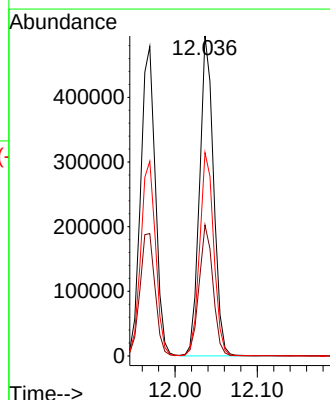
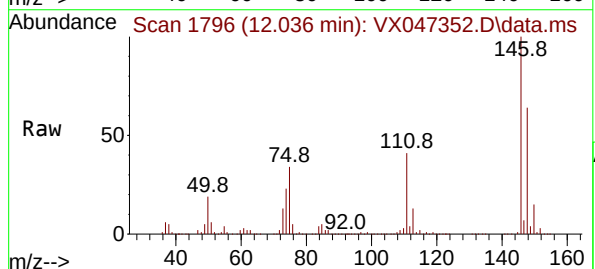
Tgt Ion:146 Resp: 585597

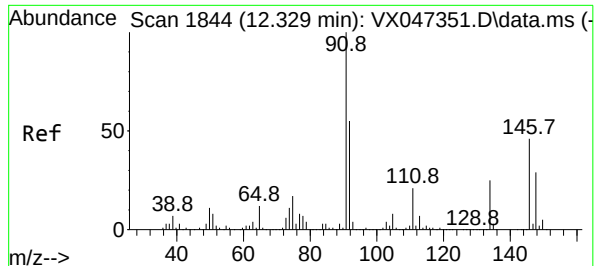
Ion Ratio Lower Upper

146 100

111 40.6 20.4 61.2

148 64.2 31.7 95.1





#89

n-Butylbenzene

Concen: 102.394 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 105089

Ion Ratio Lower Upper

91 100

92 54.4 27.2 81.5

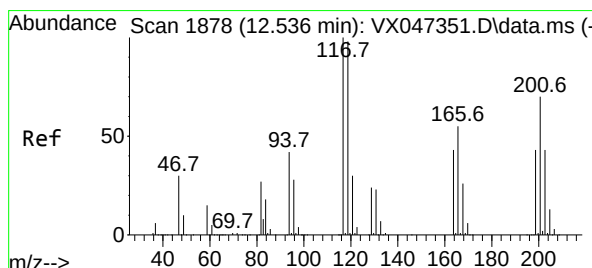
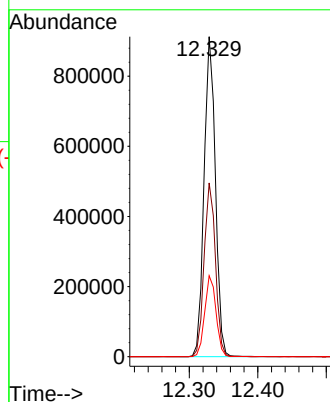
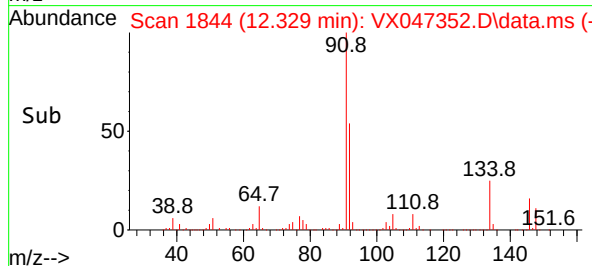
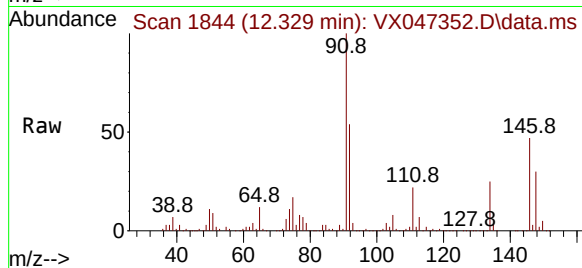
134 25.4 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#90

Hexachloroethane

Concen: 104.570 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047352.D

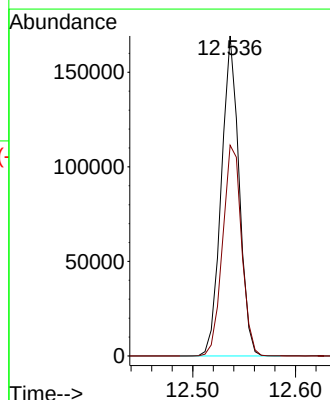
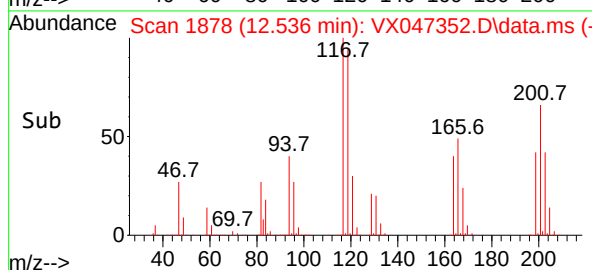
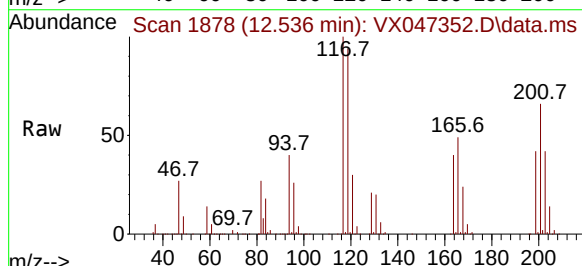
Acq: 15 Aug 2025 10:43

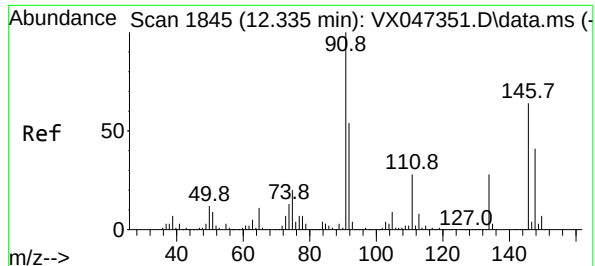
Tgt Ion:117 Resp: 202423

Ion Ratio Lower Upper

117 100

201 70.5 35.1 105.3





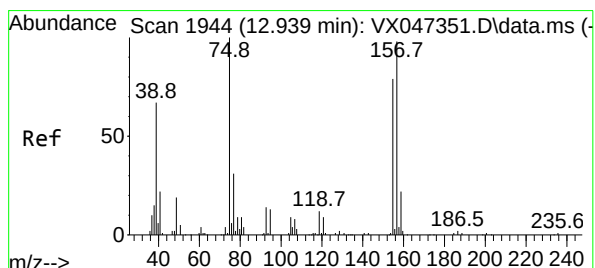
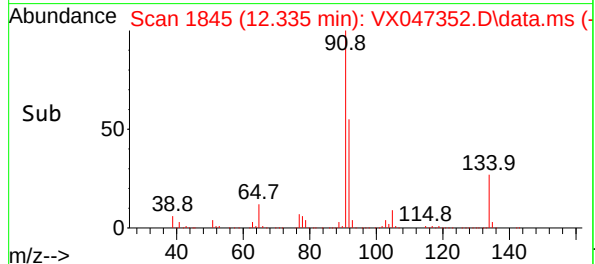
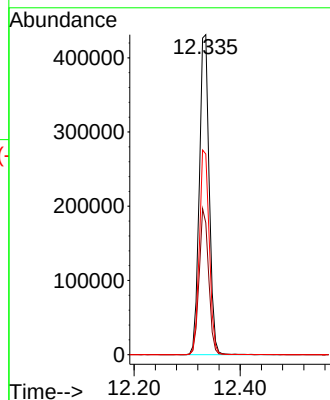
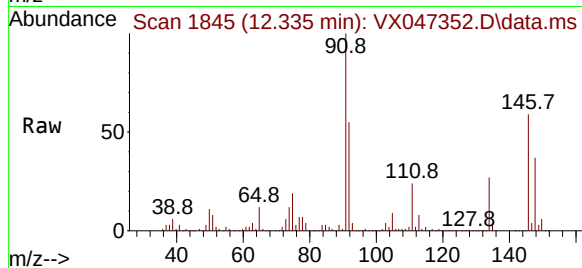
#91
1,2-Dichlorobenzene
Concen: 98.430 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 558580
Ion Ratio Lower Upper
146 100
111 43.7 22.1 66.1
148 64.1 31.9 95.5

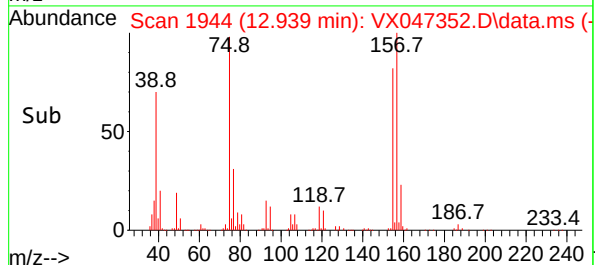
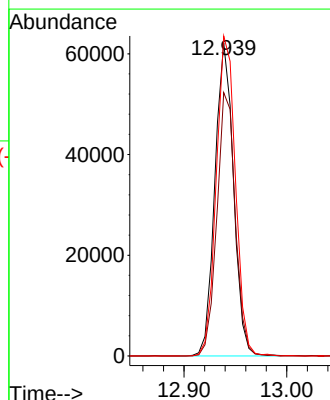
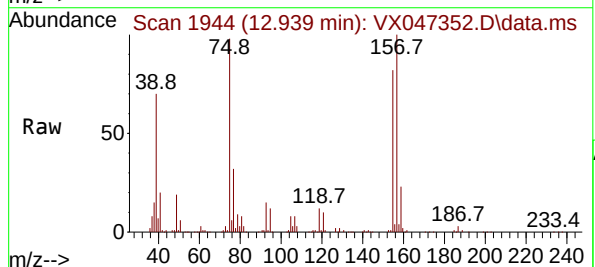
Manual Integrations
APPROVED

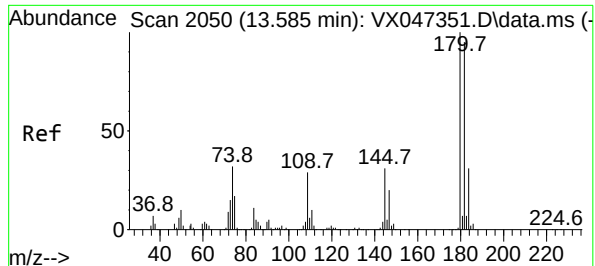
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 107.101 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

Tgt Ion: 75 Resp: 77939
Ion Ratio Lower Upper
75 100
155 83.5 41.3 123.7
157 105.3 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 102.504 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 389962

Ion Ratio Lower Upper

180 100

182 94.4 48.1 144.4

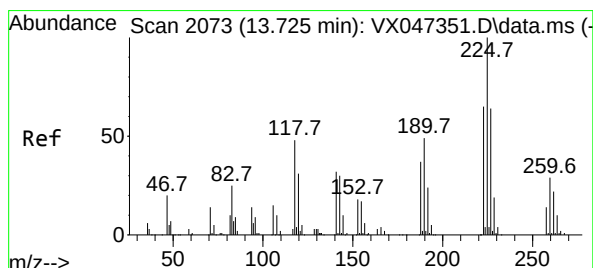
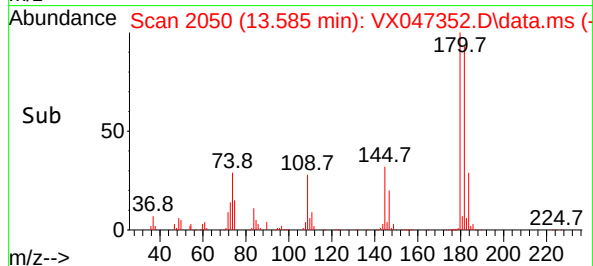
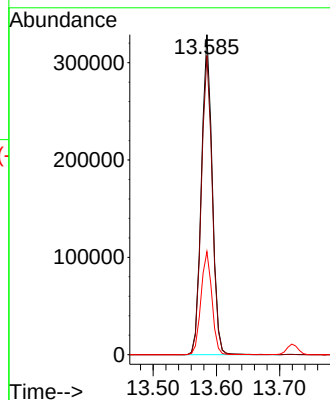
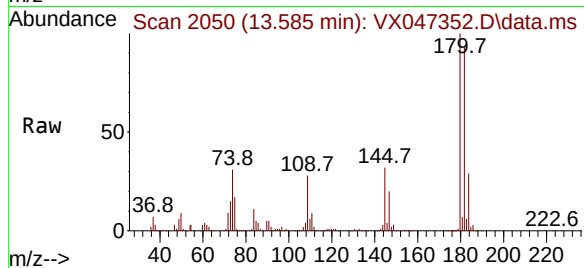
145 32.7 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#94

Hexachlorobutadiene

Concen: 91.042 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX047352.D

Acq: 15 Aug 2025 10:43

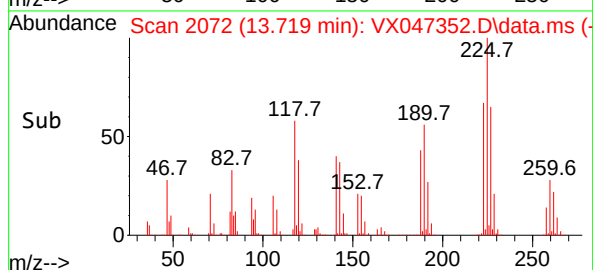
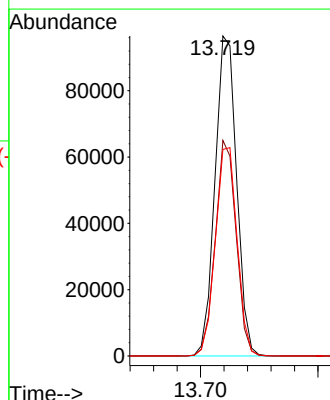
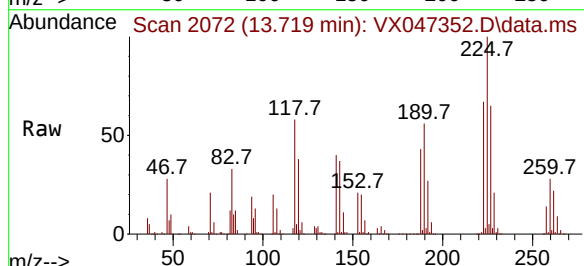
Tgt Ion:225 Resp: 123286

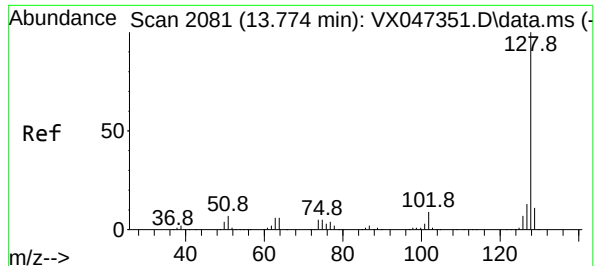
Ion Ratio Lower Upper

225 100

223 65.1 32.2 96.6

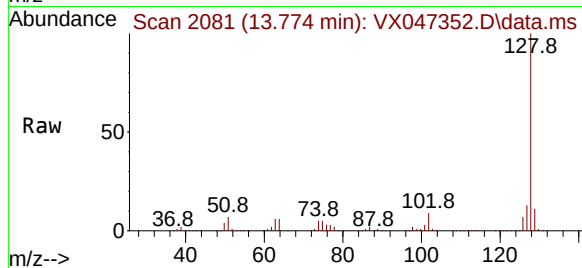
227 65.8 31.6 95.0





#95
Naphthalene
Concen: 109.632 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43

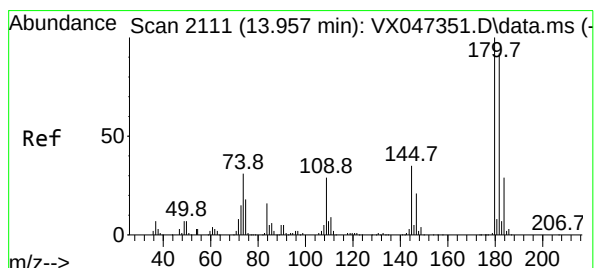
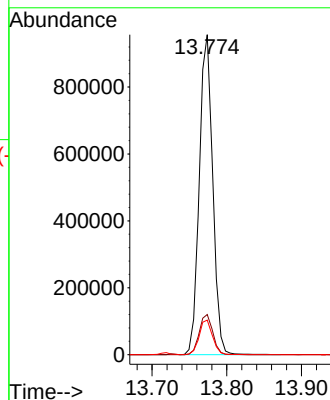
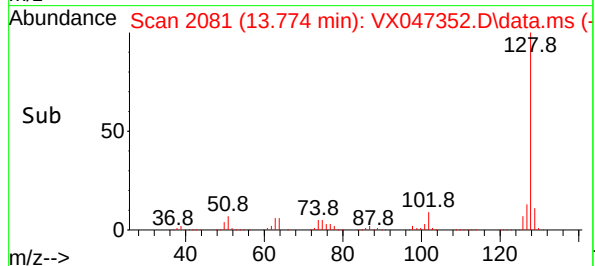
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



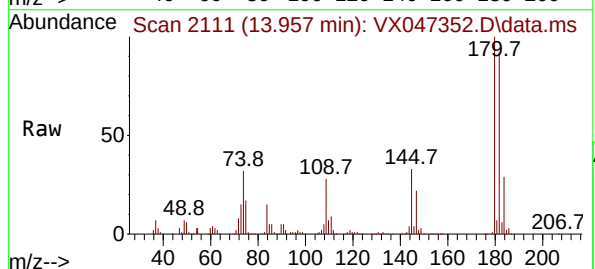
Tgt Ion:128 Resp: 1191910
Ion Ratio Lower Upper
128 100
127 12.7 10.1 15.1
129 10.8 8.7 13.1

Manual Integrations
APPROVED

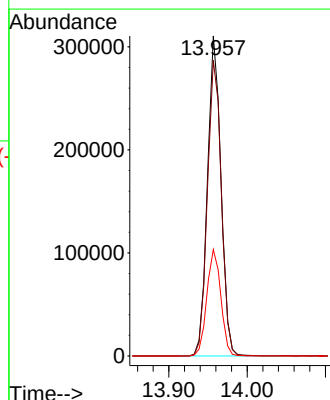
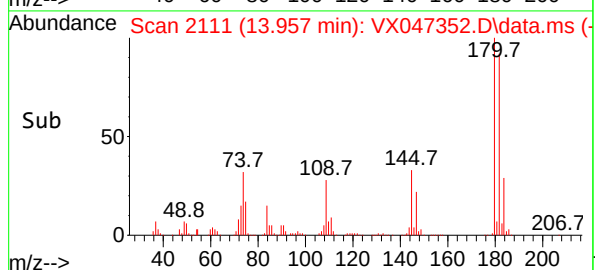
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 103.395 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047352.D
Acq: 15 Aug 2025 10:43



Tgt Ion:180 Resp: 370778
Ion Ratio Lower Upper
180 100
182 95.2 48.0 144.2
145 34.4 17.4 52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047353.D
 Acq On : 15 Aug 2025 11:05
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Aug 18 02:55:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	218039	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	378315	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	330090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	153878	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	498398	163.328	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 326.660%#	
35) Dibromofluoromethane	5.397	113	396260	161.390	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 322.780%#	
50) Toluene-d8	8.653	98	1397755	159.272	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 318.540%#	
62) 4-Bromofluorobenzene	11.079	95	508844	157.125	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 314.240%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	445045	160.118	ug/l	98
3) Chloromethane	1.313	50	388526	155.385	ug/l	97
4) Vinyl Chloride	1.392	62	494933	157.702	ug/l	97
5) Bromomethane	1.618	94	170864	134.788	ug/l	100
6) Chloroethane	1.703	64	276042	143.758	ug/l	97
7) Trichlorofluoromethane	1.904	101	699331	150.647	ug/l	98
8) Diethyl Ether	2.148	74	251983	154.158	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	416485	154.664	ug/l	99
10) Methyl Iodide	2.471	142	794834	172.239	ug/l	98
11) Tert butyl alcohol	2.977	59	206679	778.553	ug/l	100
12) 1,1-Dichloroethene	2.337	96	425622	155.037	ug/l	99
13) Acrolein	2.252	56	429798	766.968	ug/l	100
14) Allyl chloride	2.678	41	735481	154.247	ug/l	99
15) Acrylonitrile	3.087	53	991254	772.742	ug/l	100
16) Acetone	2.392	43	784600	684.039	ug/l	99
17) Carbon Disulfide	2.532	76	1212975	146.420	ug/l	100
18) Methyl Acetate	2.715	43	476497	160.309	ug/l	99
19) Methyl tert-butyl Ether	3.130	73	1317168	157.713	ug/l	100
20) Methylene Chloride	2.806	84	447216	147.242	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	434634	149.166	ug/l	98
22) Diisopropyl ether	3.776	45	1429793	151.699	ug/l	99
23) Vinyl Acetate	3.733	43	6020474	779.316	ug/l	100
24) 1,1-Dichloroethane	3.623	63	809793	152.005	ug/l	99
25) 2-Butanone	4.568	43	1122803	747.433	ug/l	98
26) 2,2-Dichloropropane	4.495	77	627662	156.100	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	509580	150.154	ug/l	99
28) Bromochloromethane	4.916	49	343257	154.839	ug/l	100
29) Tetrahydrofuran	5.019	42	717541	739.017	ug/l	97
30) Chloroform	5.105	83	812939	149.521	ug/l	99
31) Cyclohexane	5.483	56	727704	148.180	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	723635	154.630	ug/l	99
36) 1,1-Dichloropropene	5.702	75	570157	147.104	ug/l	99
37) Ethyl Acetate	4.727	43	593362	147.465	ug/l	97
38) Carbon Tetrachloride	5.690	117	628733	148.444	ug/l	98
39) Methylcyclohexane	7.385	83	729123	150.814	ug/l	97
40) Benzene	6.050	78	1706889	147.130	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047353.D
 Acq On : 15 Aug 2025 11:05
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Aug 18 02:55:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 08/18/2025
 Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	262323	154.600	ug/l	98
42) 1,2-Dichloroethane	6.098	62	599255	145.829	ug/l	100
43) Isopropyl Acetate	6.348	43	910348	157.486	ug/l	100
44) Trichloroethene	7.129	130	443361	149.252	ug/l	98
45) 1,2-Dichloropropane	7.434	63	433512	149.161	ug/l	99
46) Dibromomethane	7.586	93	312886	148.288	ug/l	99
47) Bromodichloromethane	7.824	83	650767	148.773	ug/l	99
48) Methyl methacrylate	7.696	41	473316	157.749	ug/l	99
49) 1,4-Dioxane	7.677	88	88481	3105.263	ug/l	97
51) 4-Methyl-2-Pentanone	8.580	43	2521407	757.992	ug/l	100
52) Toluene	8.720	92	1052008	146.750	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	624499	163.583	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	682860	158.029	ug/l	100
55) 1,1,2-Trichloroethane	9.153	97	394302	144.868	ug/l	97
56) Ethyl methacrylate	9.116	69	646154	161.020	ug/l	99
57) 1,3-Dichloropropane	9.311	76	672087	144.911	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	1468000	748.853	ug/l	99
59) 2-Hexanone	9.433	43	1737616	755.168	ug/l	100
60) Dibromochloromethane	9.525	129	476650	147.358	ug/l	99
61) 1,2-Dibromoethane	9.610	107	410057	146.099	ug/l	99
64) Tetrachloroethene	9.275	164	356989	149.518	ug/l	99
65) Chlorobenzene	10.079	112	1163848	148.370	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	405123	152.780	ug/l	100
67) Ethyl Benzene	10.195	91	2036272	150.823	ug/l	99
68) m/p-Xylenes	10.299	106	1502542	298.466	ug/l	99
69) o-Xylene	10.640	106	725154	149.683	ug/l	100
70) Styrene	10.653	104	1253652	153.150	ug/l	99
71) Bromoform	10.799	173	309626	155.427	ug/l #	99
73) Isopropylbenzene	10.963	105	1883521	156.417	ug/l	99
74) N-amyl acetate	10.842	43	790124	172.791	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	531651	150.375	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	425332m	150.704	ug/l	
77) Bromobenzene	11.195	156	451000	153.378	ug/l	99
78) n-propylbenzene	11.305	91	2235938	155.473	ug/l	99
79) 2-Chlorotoluene	11.366	91	1306418	150.272	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	1536791	155.110	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	113338	154.967	ug/l	97
82) 4-Chlorotoluene	11.451	91	1541070	150.376	ug/l	100
83) tert-Butylbenzene	11.713	119	1542621	156.062	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	1535261	154.952	ug/l	99
85) sec-Butylbenzene	11.890	105	1912224	156.078	ug/l	100
86) p-Isopropyltoluene	12.006	119	1601345	154.459	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	841394	149.783	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	837395	144.939	ug/l	100
89) n-Butylbenzene	12.329	91	1489473	154.462	ug/l	100
90) Hexachloroethane	12.536	117	303295	166.757	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	798192	149.701	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	115101	168.342	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	555658	155.453	ug/l	100
94) Hexachlorobutadiene	13.725	225	176870	139.013	ug/l	98
95) Naphthalene	13.774	128	1715681	167.959	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	535287	158.872	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047353.D
Acq On : 15 Aug 2025 11:05
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:55:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 02:51:35 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\VX081525\
 Data File : VX047353.D
 Acq On : 15 Aug 2025 11:05
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

VSTDIC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025

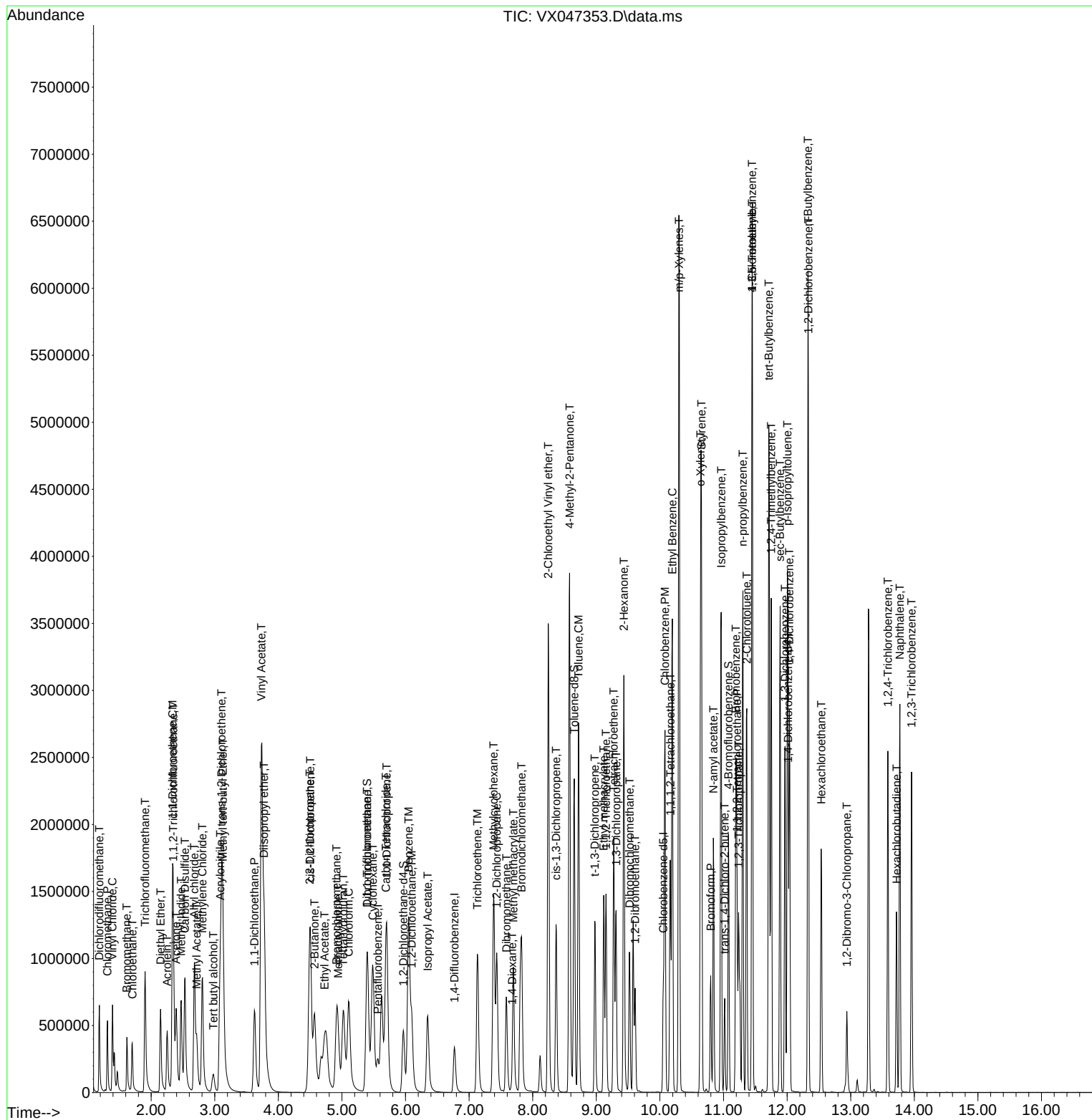
Quant Time: Aug 18 02:55:37 2025

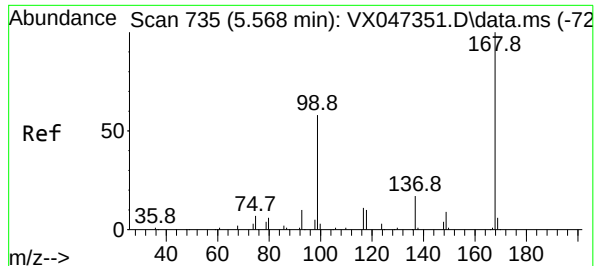
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M

Quant Title : SW846 8260

QLast Update : Mon Aug 18 02:51:35 2025

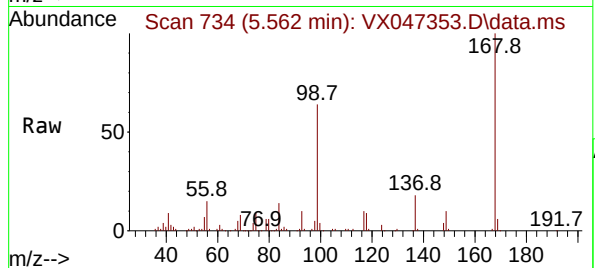
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

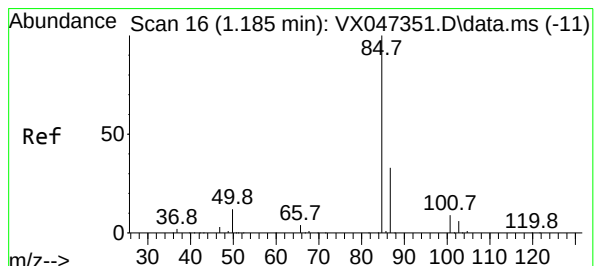
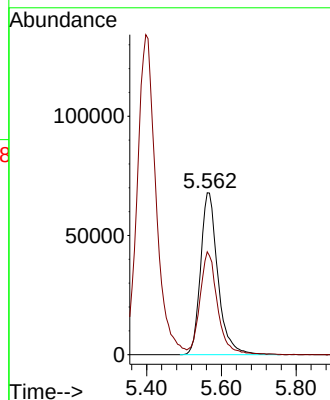
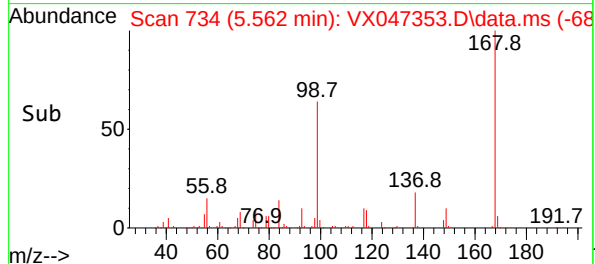
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:168 Resp: 218039
Ion Ratio Lower Upper
168 100
99 63.3 47.9 71.9

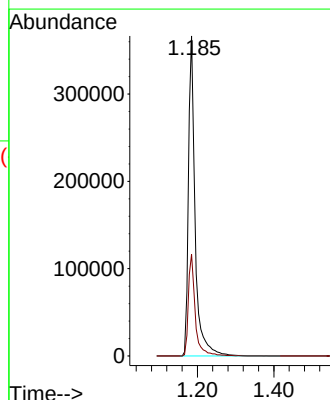
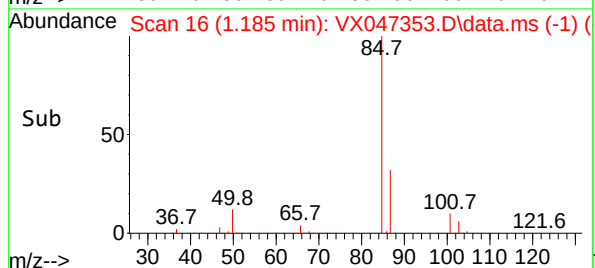
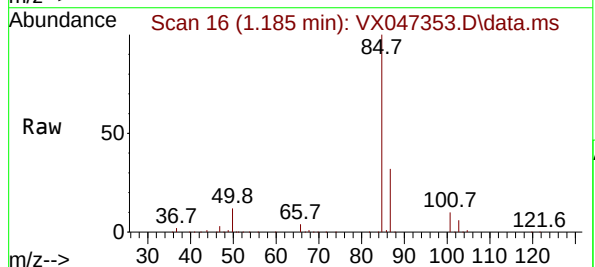
Manual Integrations
APPROVED

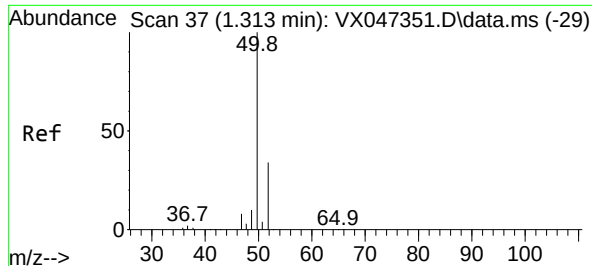
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#2
Dichlorodifluoromethane
Concen: 160.118 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 85 Resp: 445045
Ion Ratio Lower Upper
85 100
87 31.8 16.4 49.1





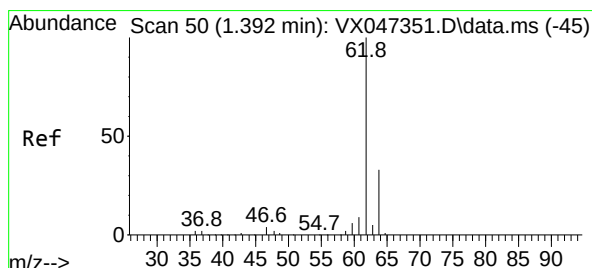
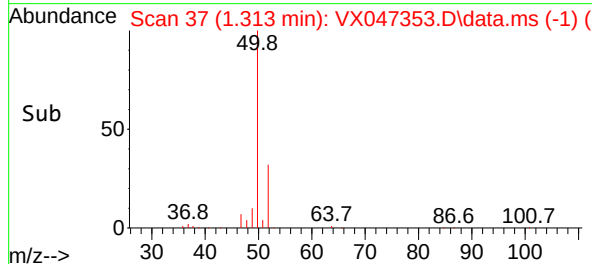
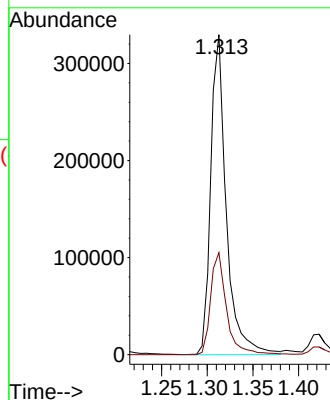
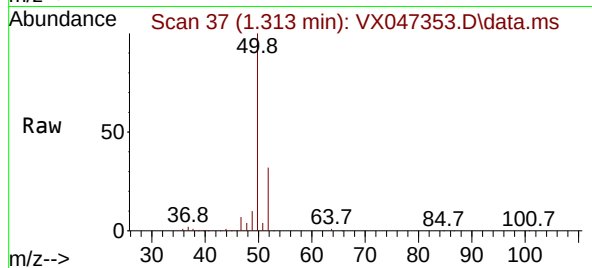
#3
Chloromethane
Concen: 155.385 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 388520
Ion Ratio Lower Upper
50 100
52 31.9 27.0 40.4

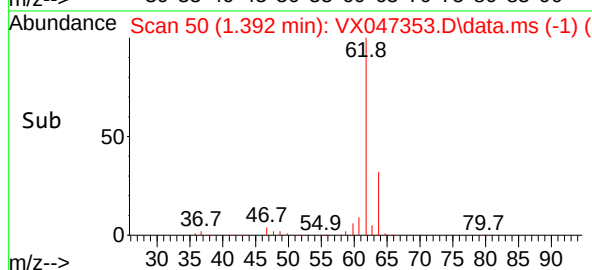
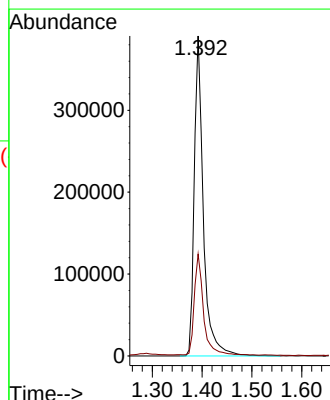
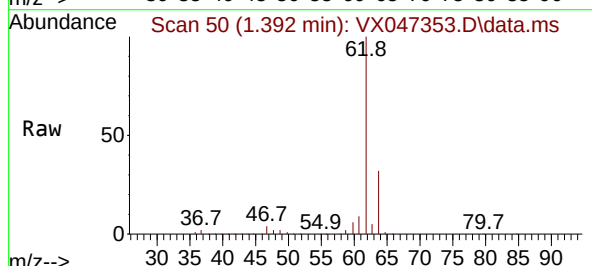
Manual Integrations
APPROVED

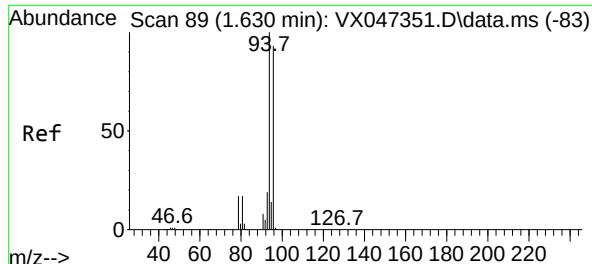
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#4
Vinyl Chloride
Concen: 157.702 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 62 Resp: 494933
Ion Ratio Lower Upper
62 100
64 31.6 26.5 39.7





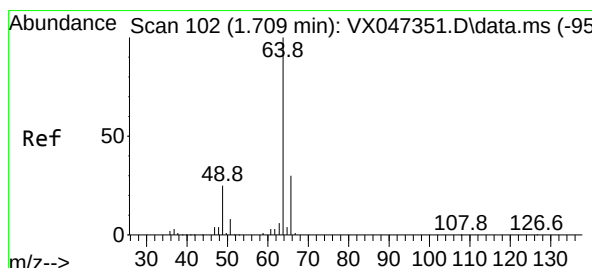
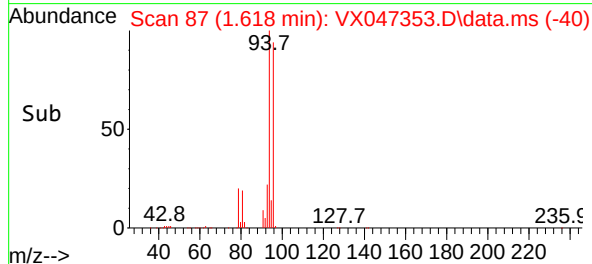
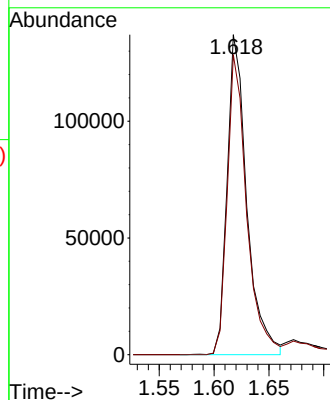
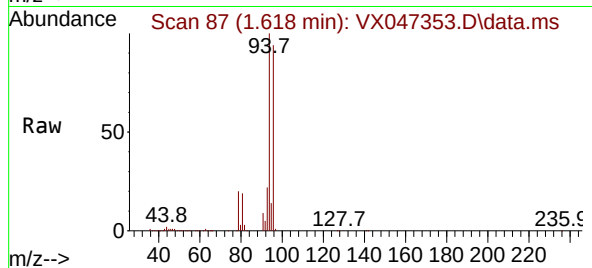
#5
Bromomethane
Concen: 134.788 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.012 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 170864
Ion Ratio Lower Upper
94 100
96 93.7 74.7 112.1

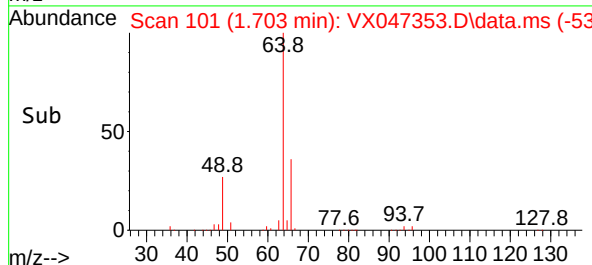
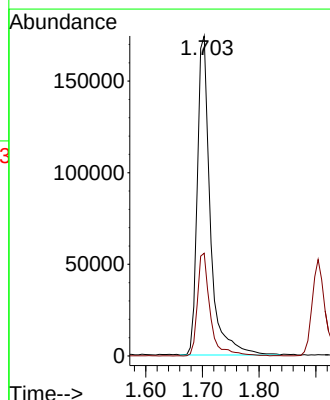
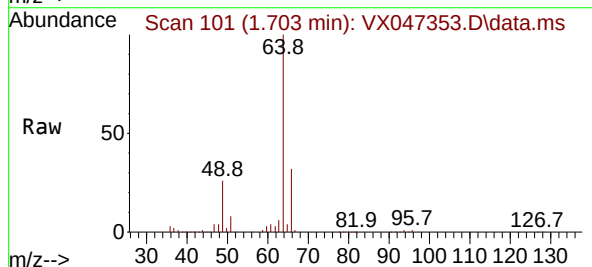
Manual Integrations
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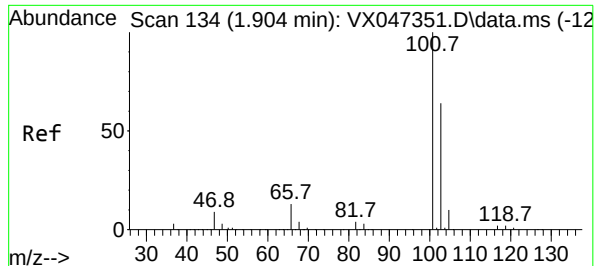
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#6
Chloroethane
Concen: 143.758 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 64 Resp: 276042
Ion Ratio Lower Upper
64 100
66 32.2 24.4 36.6





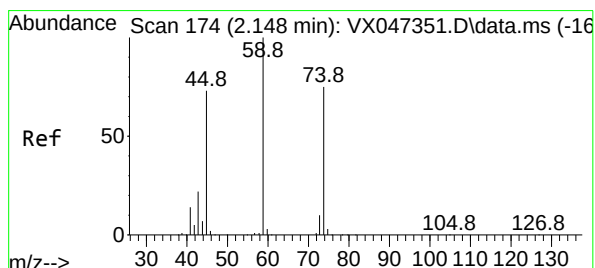
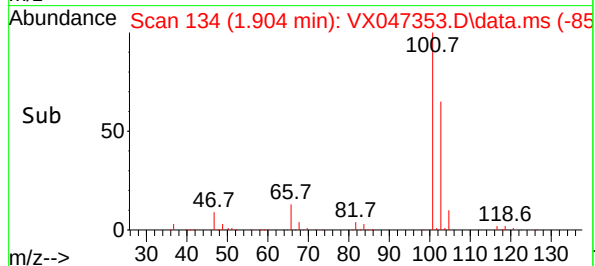
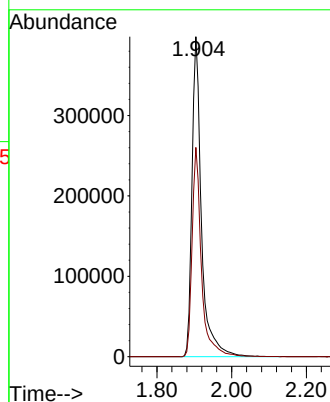
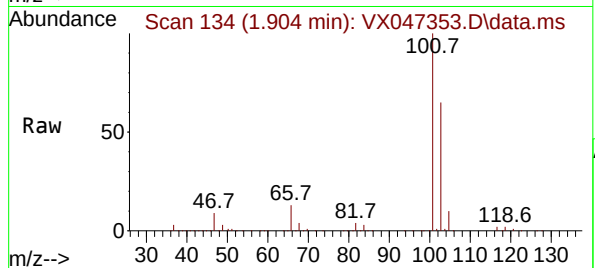
#7
Trichlorofluoromethane
Concen: 150.647 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 69933
Ion Ratio Lower Upper
101 100
103 65.4 50.9 76.3

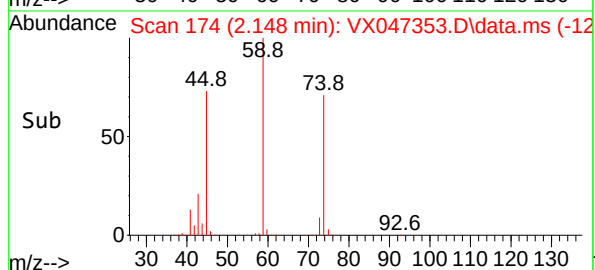
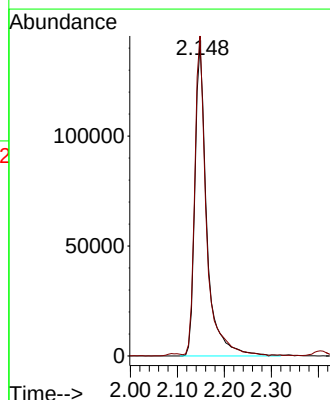
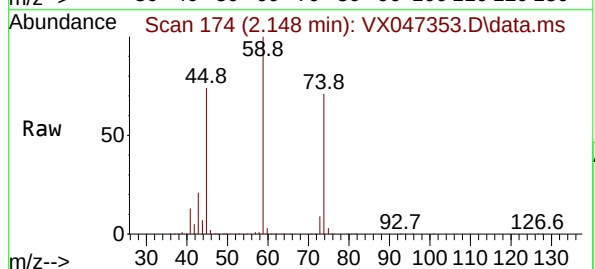
Manual Integrations
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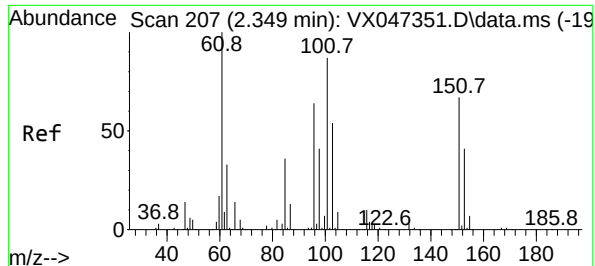
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#8
Diethyl Ether
Concen: 154.158 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 74 Resp: 251983
Ion Ratio Lower Upper
74 100
45 101.1 51.3 154.0





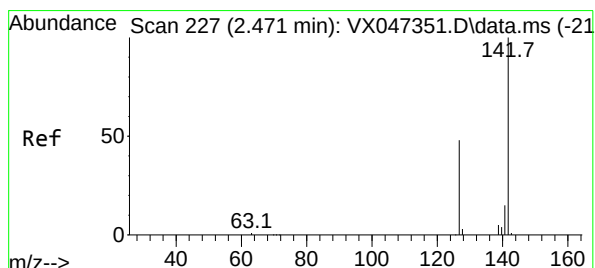
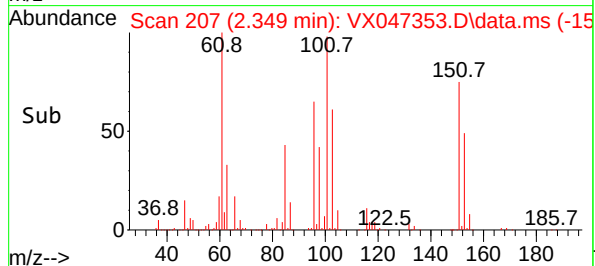
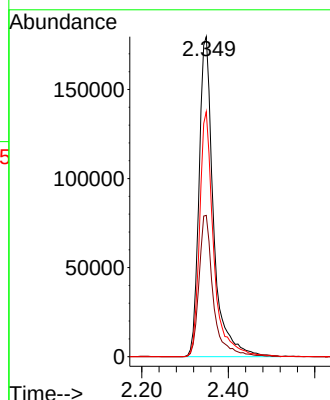
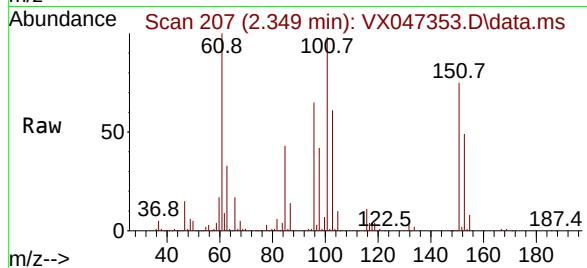
#9
1,1,2-Trichlorotrifluoroethane
Concen: 154.664 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 416485
Ion Ratio Lower Upper
101 100
85 43.8 34.3 51.5
151 74.9 59.2 88.8

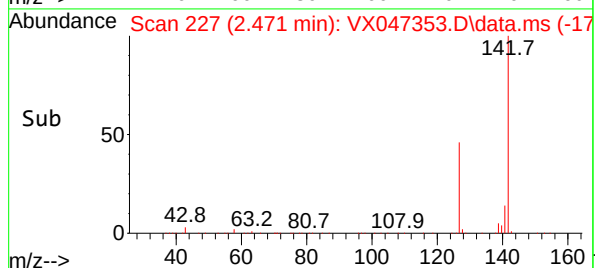
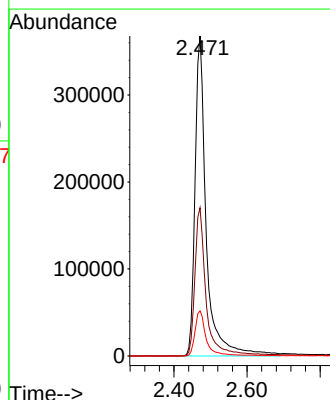
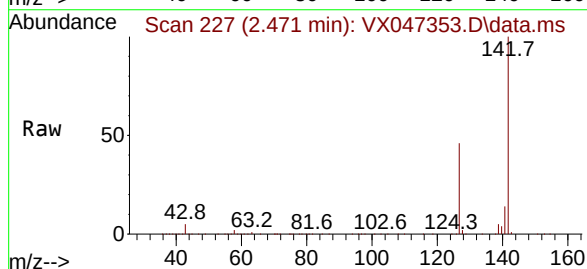
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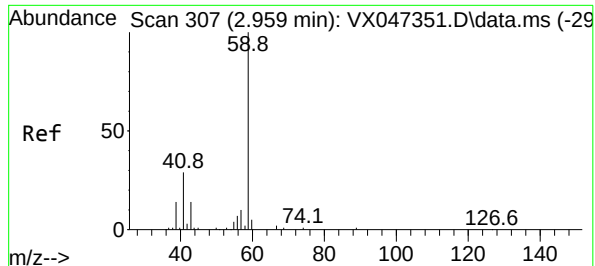
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#10
Methyl Iodide
Concen: 172.239 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion:142 Resp: 794834
Ion Ratio Lower Upper
142 100
127 47.1 36.1 54.1
141 14.0 11.1 16.7





#11

Tert butyl alcohol

Concen: 778.553 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.018 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 206679

Ion Ratio Lower Upper

59 100

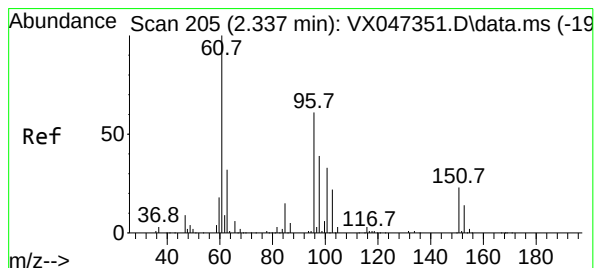
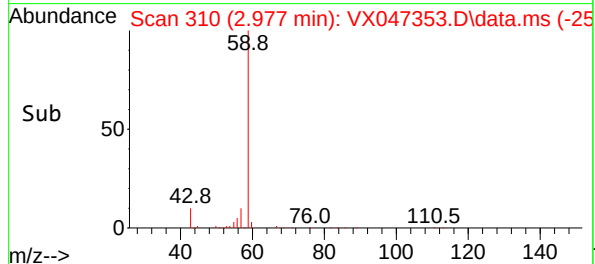
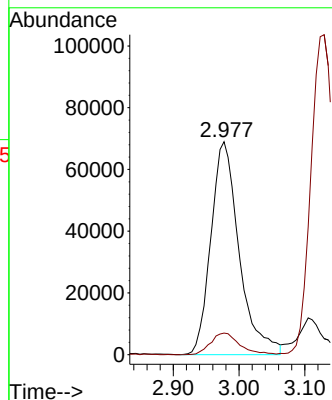
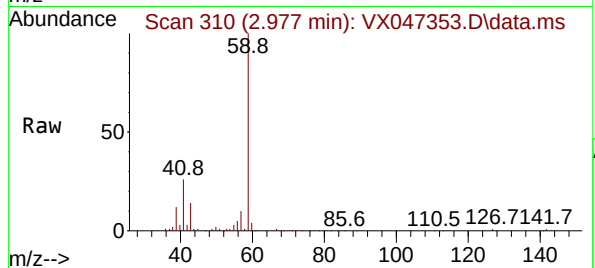
57 10.4 8.3 12.5

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#12

1,1-Dichloroethene

Concen: 155.037 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

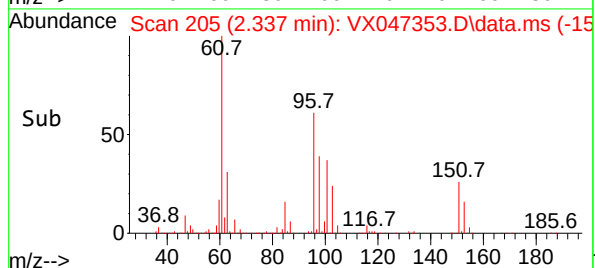
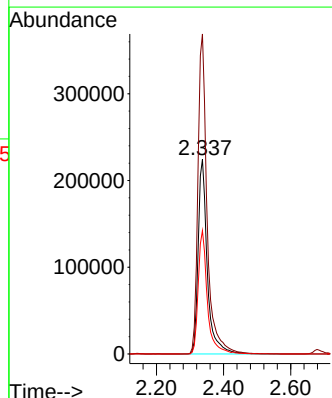
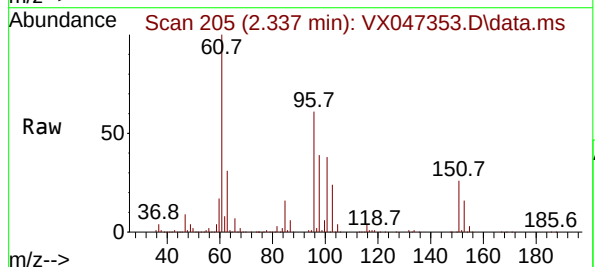
Tgt Ion: 96 Resp: 425622

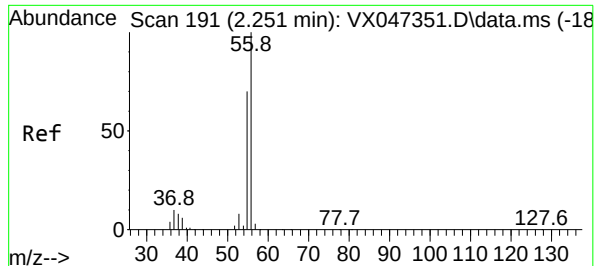
Ion Ratio Lower Upper

96 100

61 164.5 132.2 198.2

98 63.5 51.2 76.8





#13

Acrolein

Concen: 766.968 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 429798

Ion Ratio Lower Upper

56 100

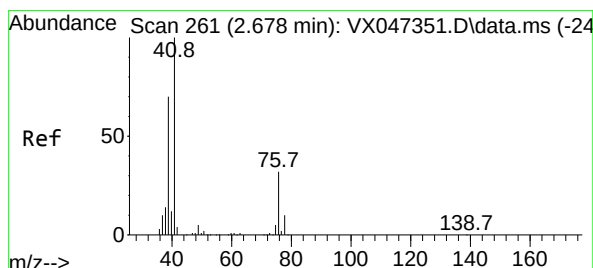
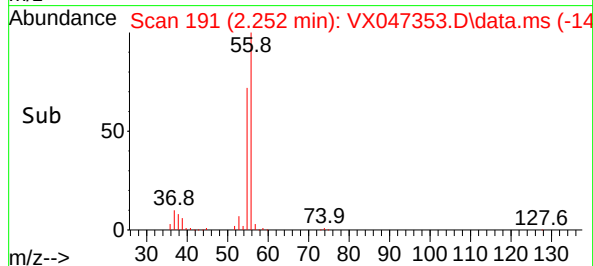
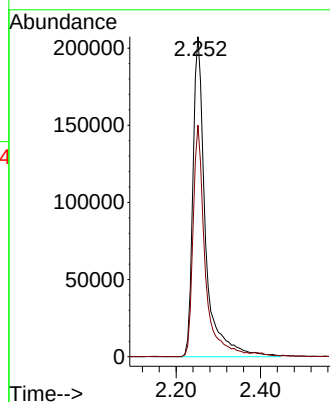
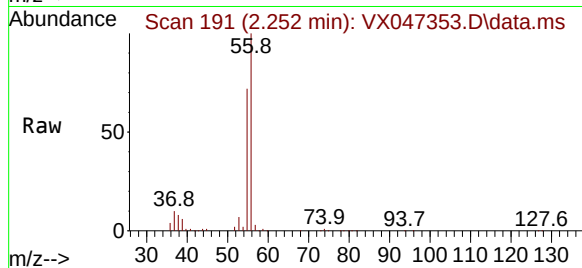
55 69.4 55.5 83.3

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#14

Allyl chloride

Concen: 154.247 ug/l

RT: 2.678 min Scan# 261

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

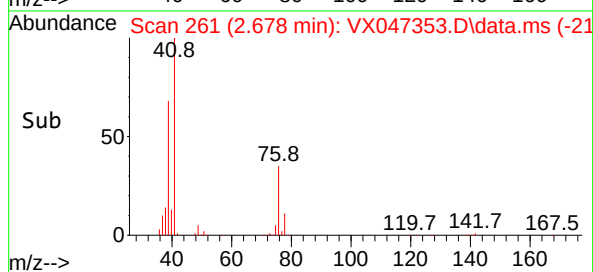
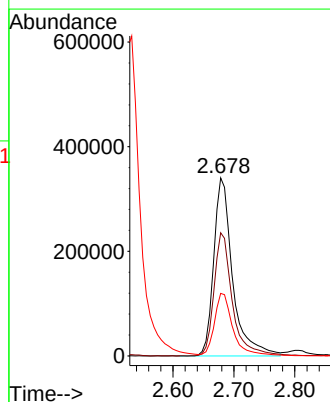
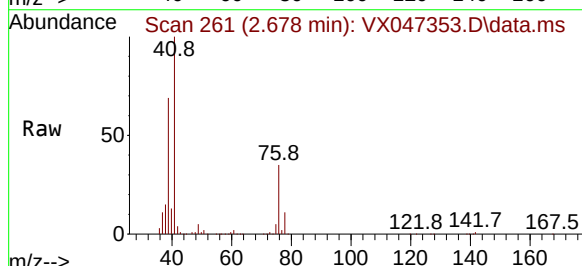
Tgt Ion: 41 Resp: 735481

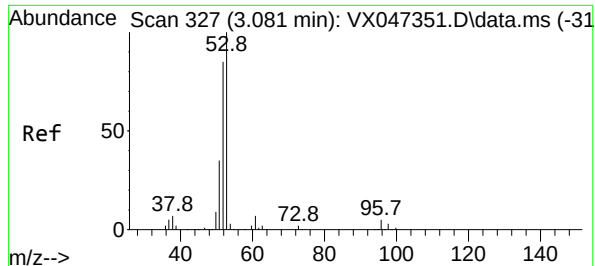
Ion Ratio Lower Upper

41 100

39 67.1 54.6 81.8

76 34.3 27.6 41.4





#15

Acrylonitrile

Concen: 772.742 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

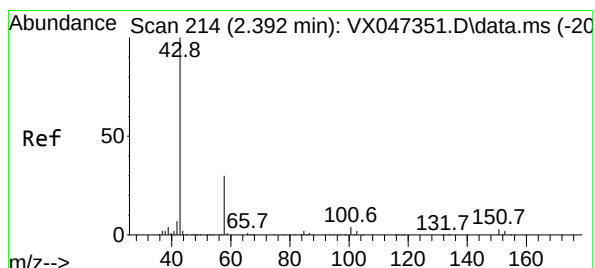
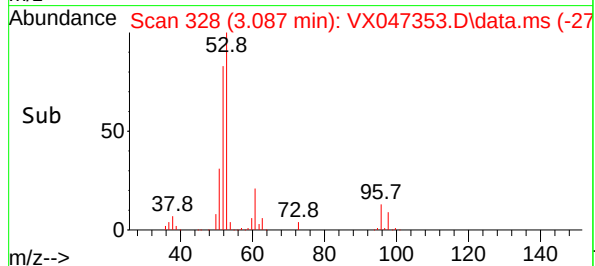
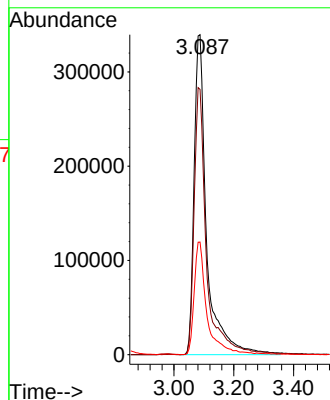
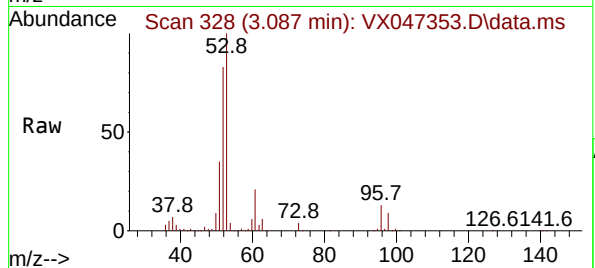
VSTDIC150

Tgt Ion:	53	Resp:	991254
Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.8	98.6
51	35.4	28.2	42.2

Manual Integrations
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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#16

Acetone

Concen: 684.039 ug/l

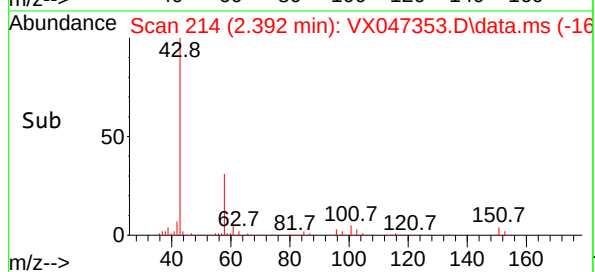
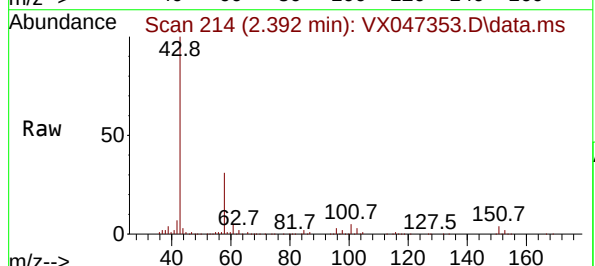
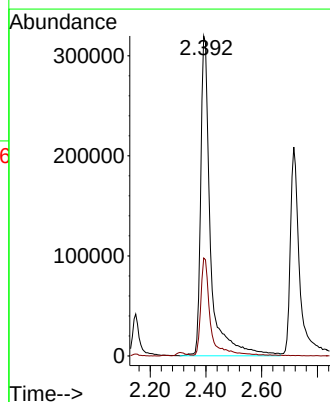
RT: 2.392 min Scan# 214

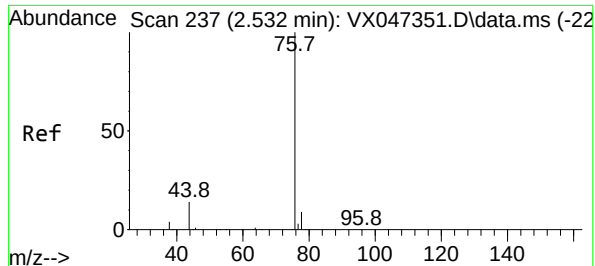
Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Tgt Ion:	43	Resp:	784600
Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.8	37.2





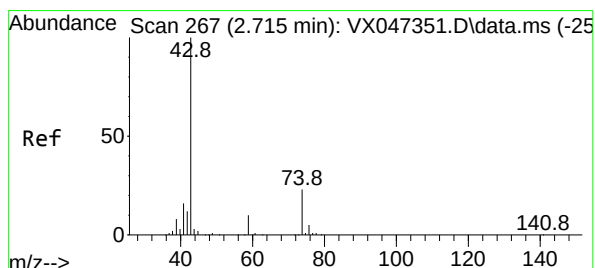
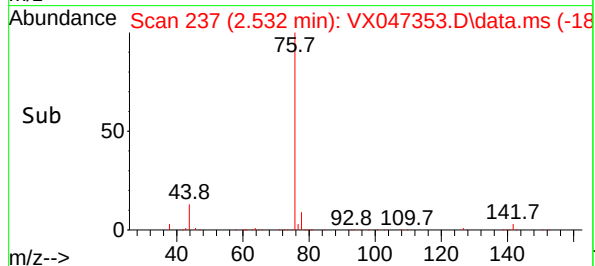
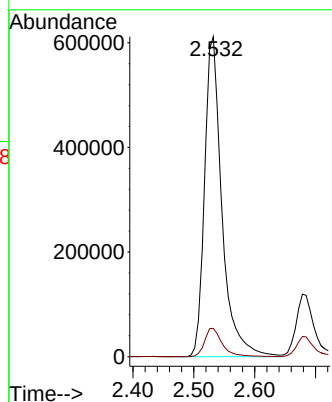
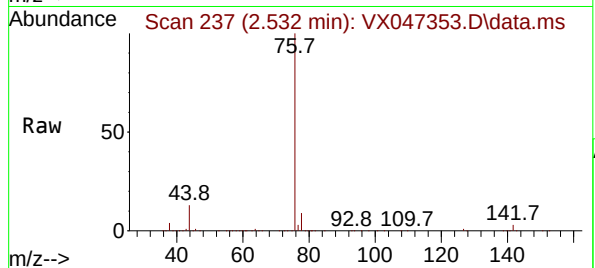
#17
Carbon Disulfide
Concen: 146.420 ug/l
RT: 2.532 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 121297
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8

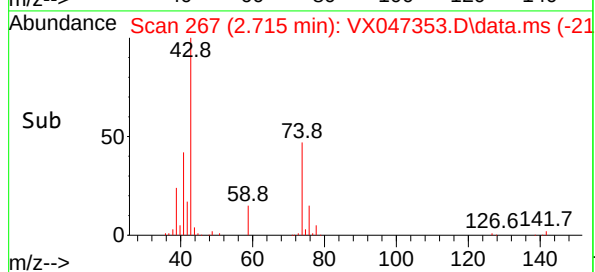
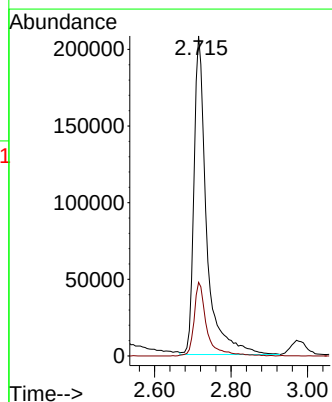
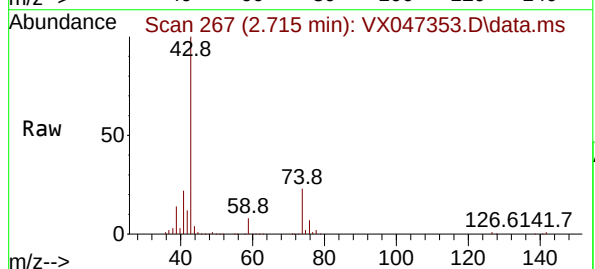
Manual Integrations
APPROVED

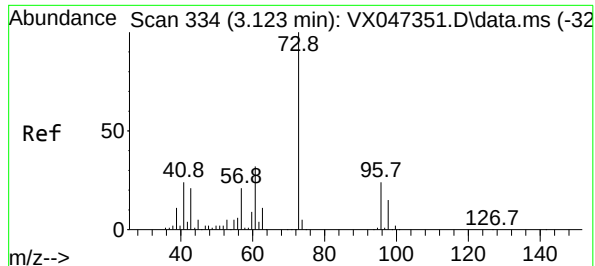
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#18
Methyl Acetate
Concen: 160.309 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 476497
Ion Ratio Lower Upper
43 100
74 23.3 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 157.713 ug/l

RT: 3.130 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 73 Resp: 131716

Ion Ratio Lower Upper

73 100

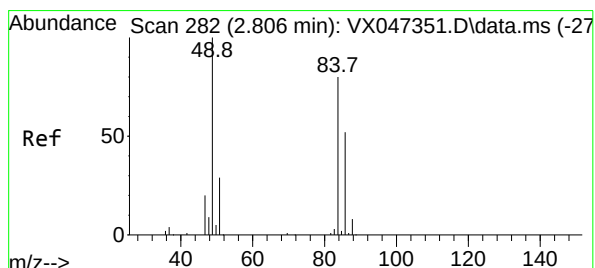
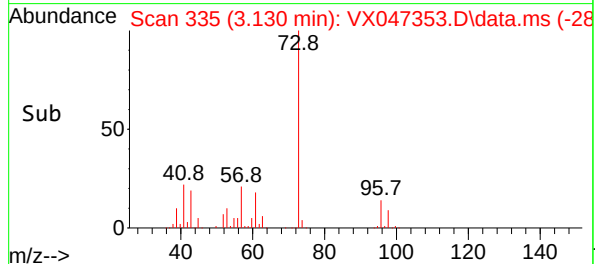
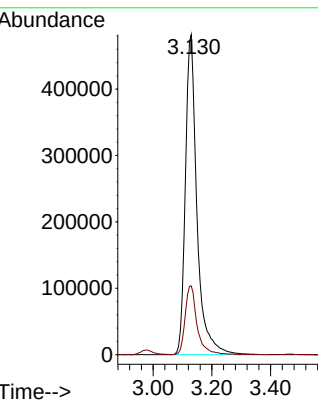
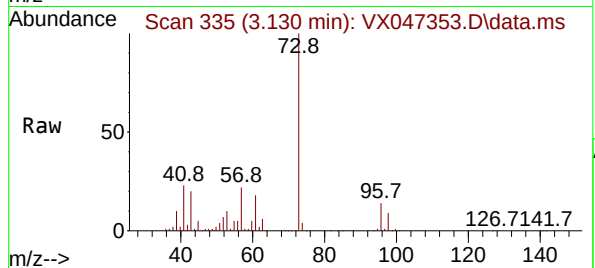
57 21.5 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#20

Methylene Chloride

Concen: 147.242 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Tgt Ion: 84 Resp: 447216

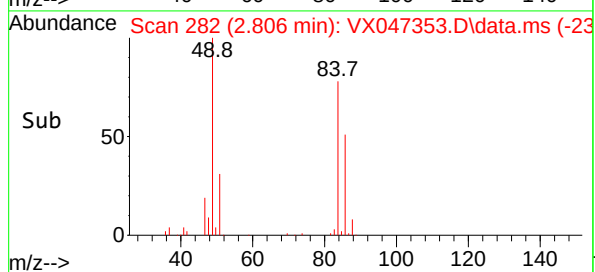
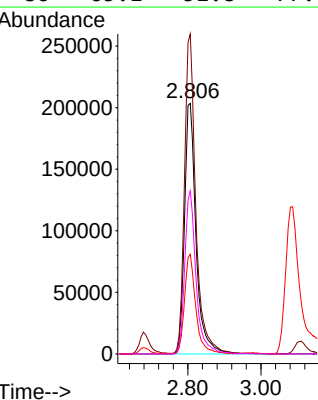
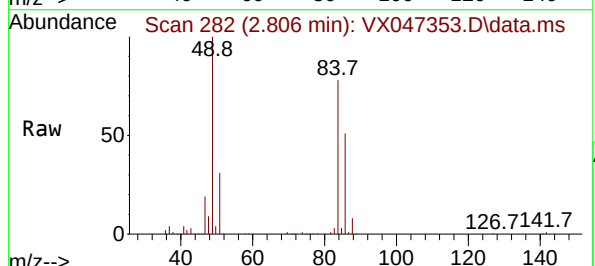
Ion Ratio Lower Upper

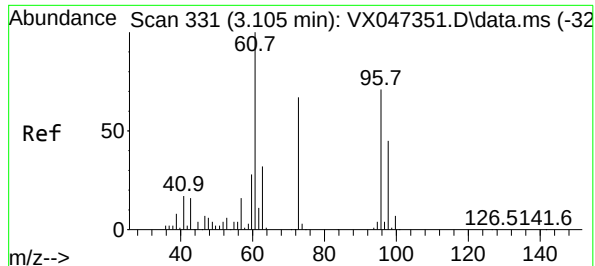
84 100

49 127.5 100.1 150.1

51 39.7 29.5 44.3

86 65.1 51.8 77.8





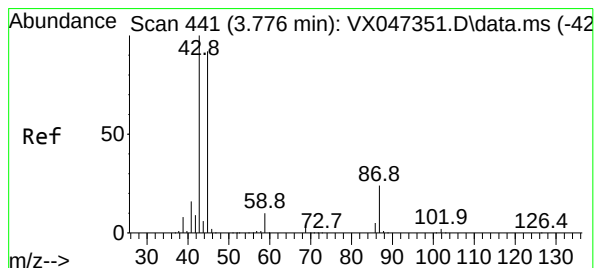
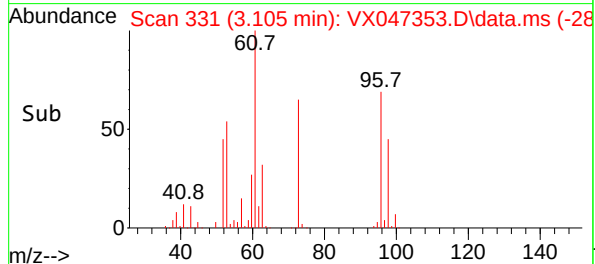
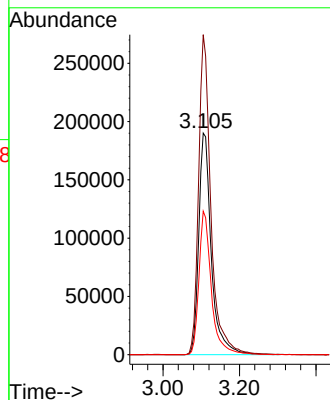
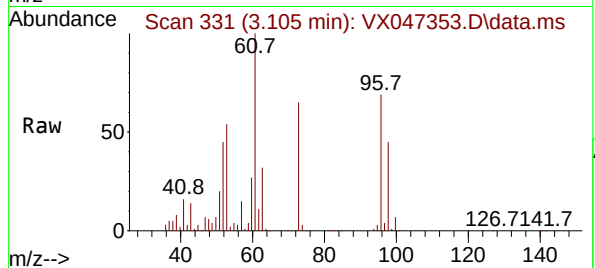
#21
trans-1,2-Dichloroethene
Concen: 149.166 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 434634
Ion Ratio Lower Upper
96 100
61 144.3 112.6 169.0
98 64.8 50.9 76.3

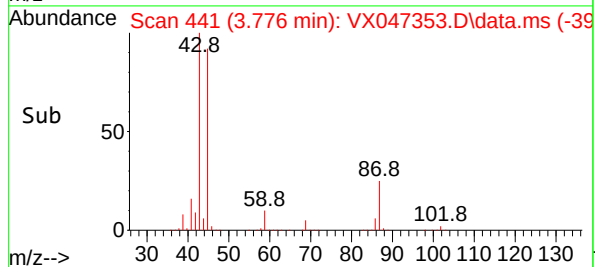
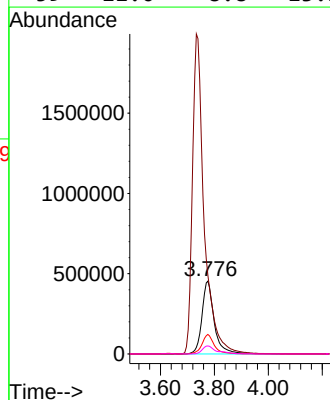
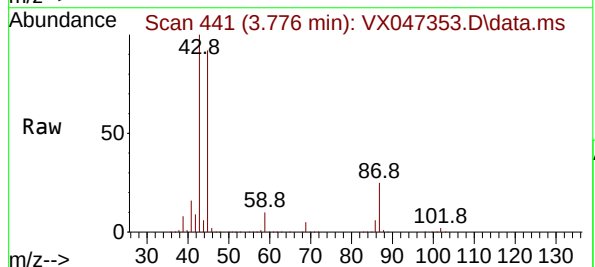
Manual Integrations
APPROVED

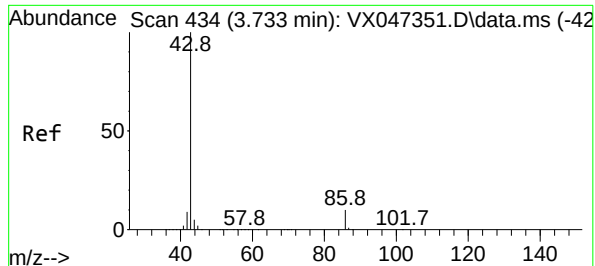
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#22
Diisopropyl ether
Concen: 151.699 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 45 Resp: 1429793
Ion Ratio Lower Upper
45 100
43 108.1 86.8 130.2
87 26.8 20.4 30.6
59 11.0 8.8 13.2





#23

Vinyl Acetate

Concen: 779.316 ug/l

RT: 3.733 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 6020474

Ion Ratio Lower Upper

43 100

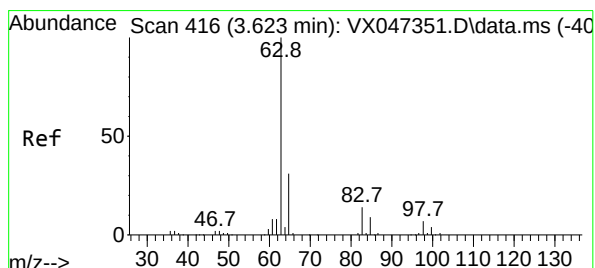
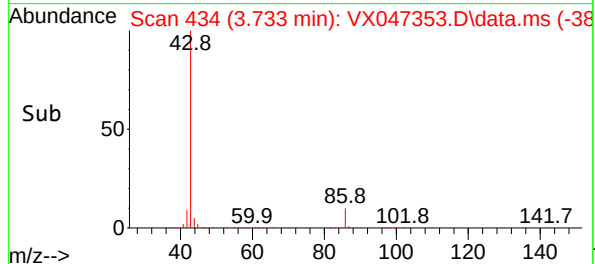
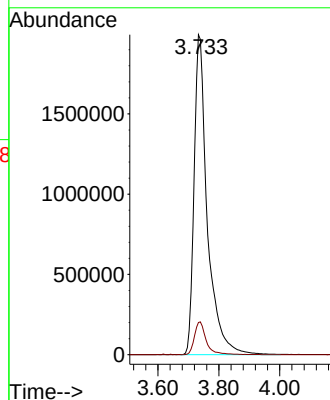
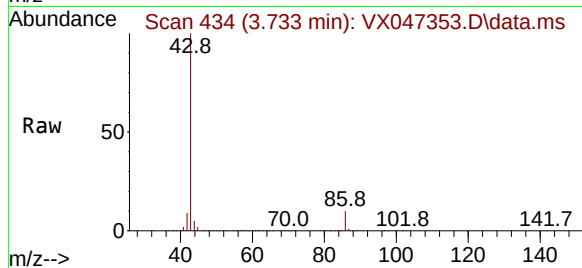
86 10.0 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#24

1,1-Dichloroethane

Concen: 152.005 ug/l

RT: 3.623 min Scan# 416

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

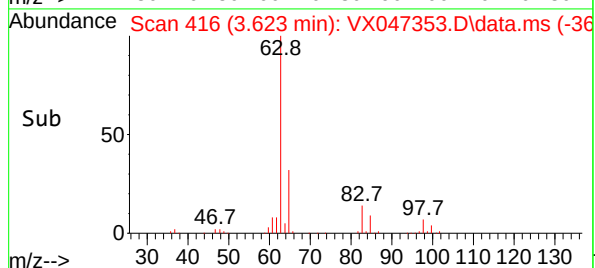
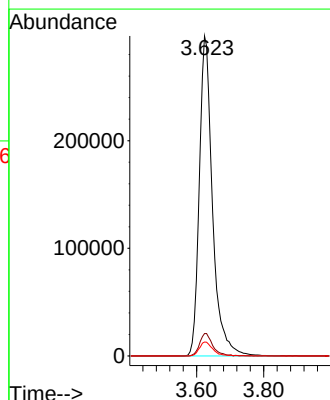
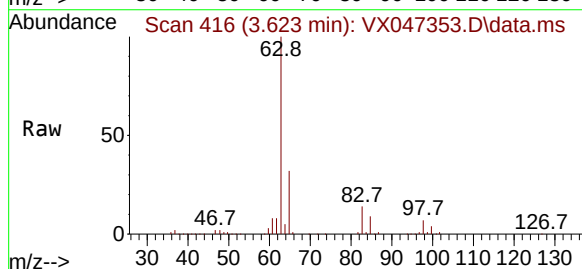
Tgt Ion: 63 Resp: 809793

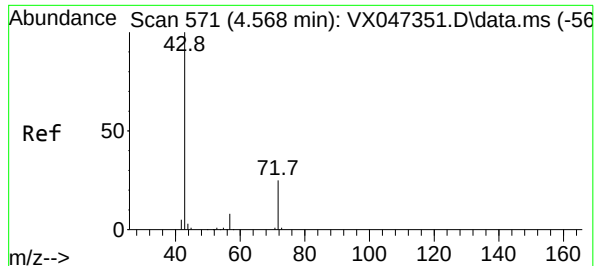
Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.9

100 4.3 2.1 6.3





#25

2-Butanone

Concen: 747.433 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 112280

Ion Ratio Lower Upper

43 100

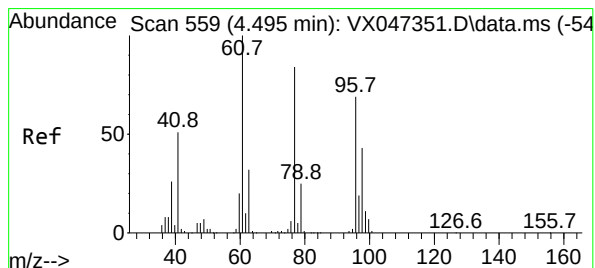
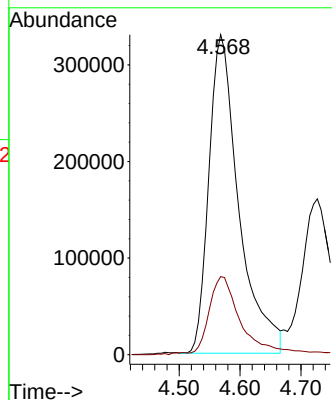
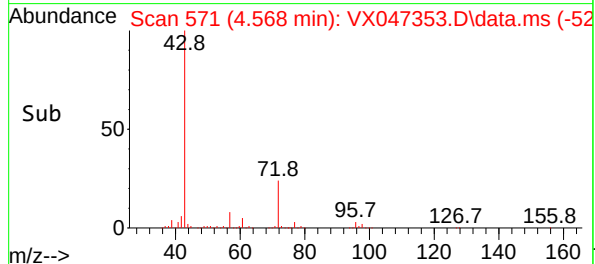
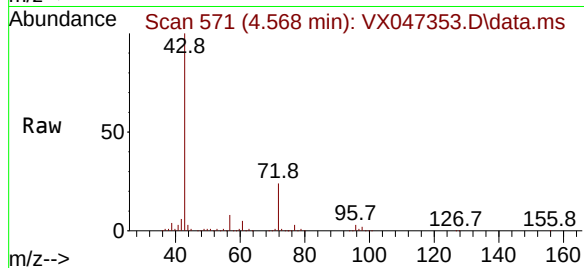
72 23.9 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#26

2,2-Dichloropropane

Concen: 156.100 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX047353.D

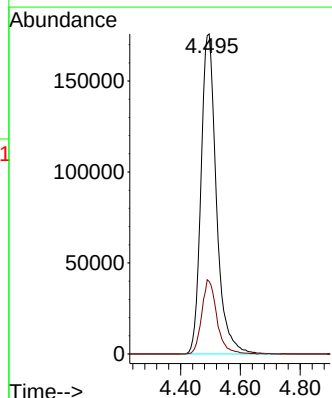
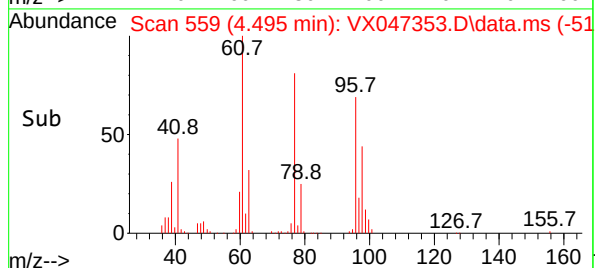
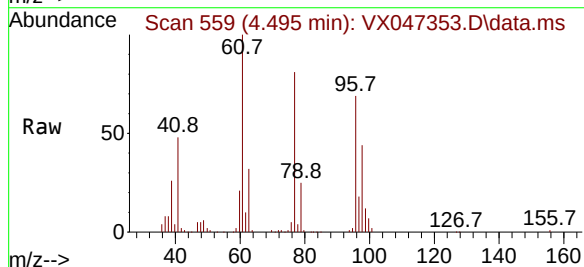
Acq: 15 Aug 2025 11:05

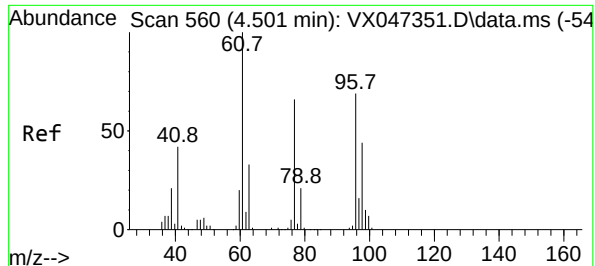
Tgt Ion: 77 Resp: 627662

Ion Ratio Lower Upper

77 100

97 22.7 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 150.154 ug/l

RT: 4.501 min Scan# 509

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 509580

Ion Ratio Lower Upper

96 100

61 146.3 0.0 296.6

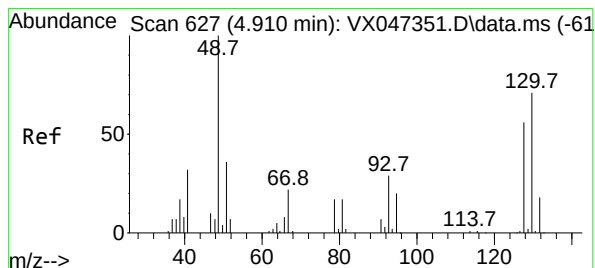
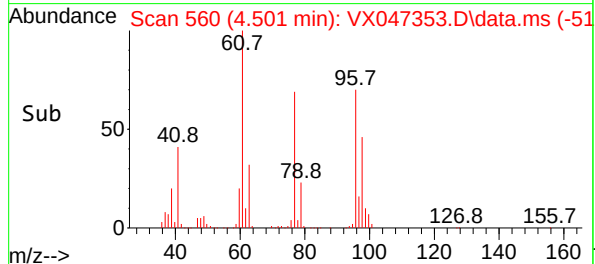
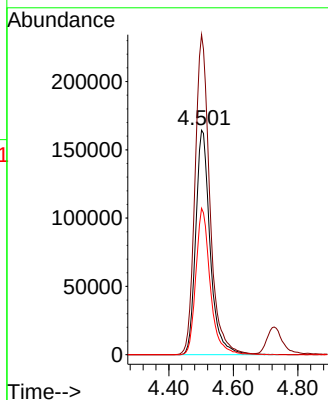
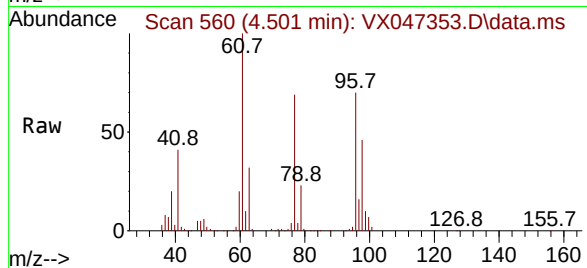
98 64.9 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#28

Bromochloromethane

Concen: 154.839 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.006 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

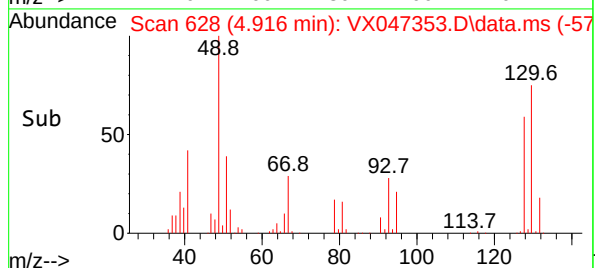
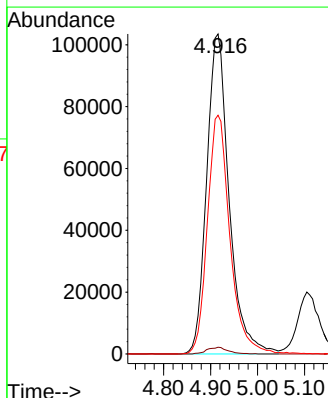
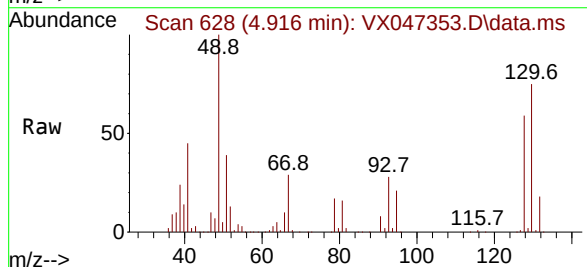
Tgt Ion: 49 Resp: 343257

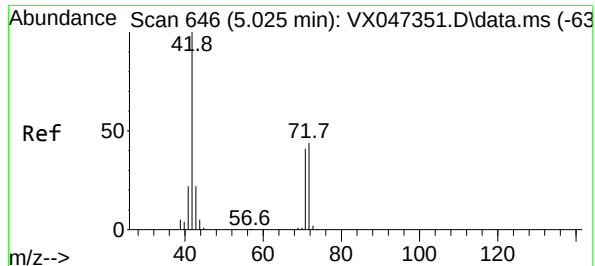
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.0

130 75.0 59.8 89.6





#29

Tetrahydrofuran

Concen: 739.017 ug/l

RT: 5.019 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 42 Resp: 71754

Ion Ratio Lower Upper

42 100

72 45.7 34.6 51.8

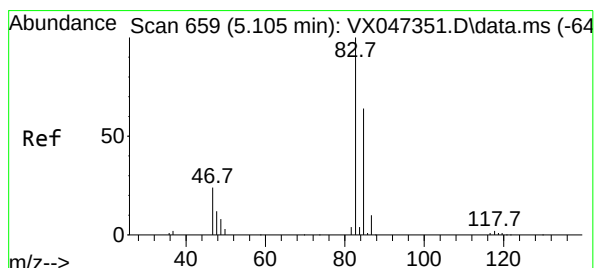
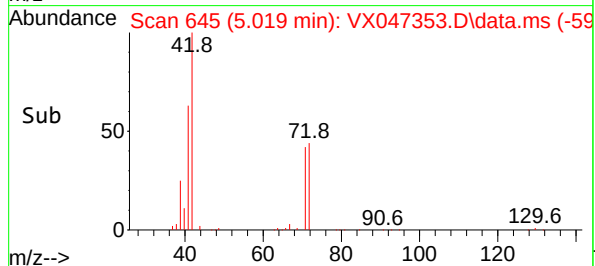
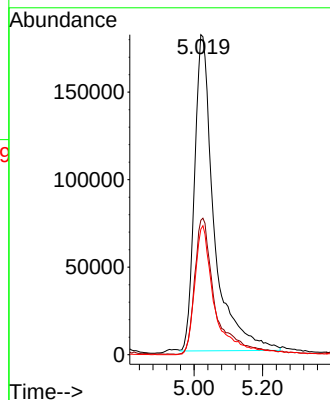
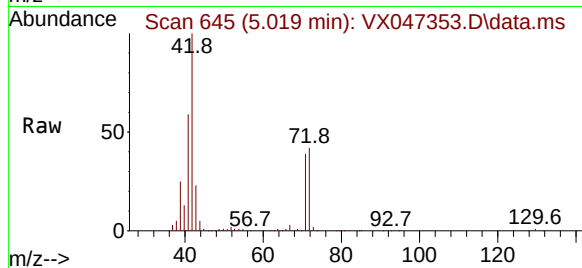
71 42.1 32.6 49.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#30

Chloroform

Concen: 149.521 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.000 min

Lab File: VX047353.D

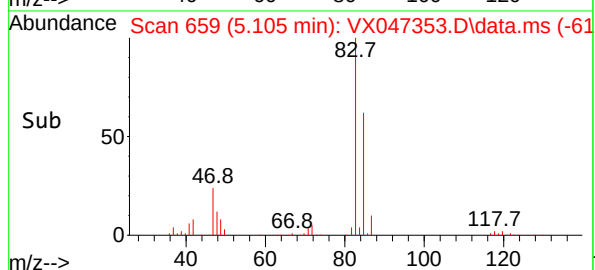
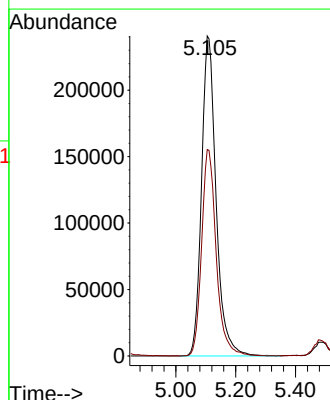
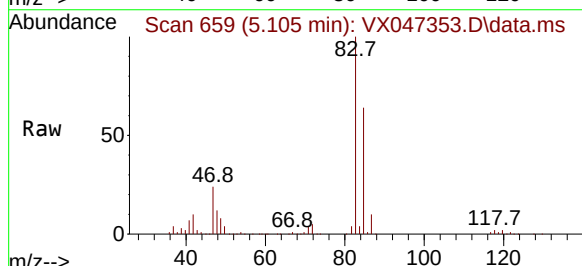
Acq: 15 Aug 2025 11:05

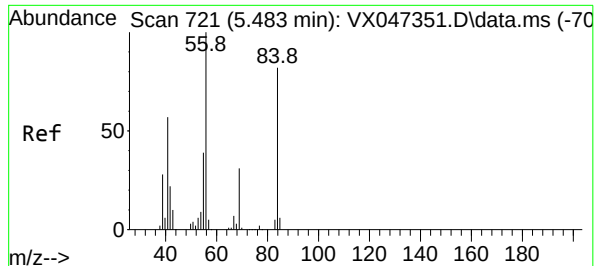
Tgt Ion: 83 Resp: 812939

Ion Ratio Lower Upper

83 100

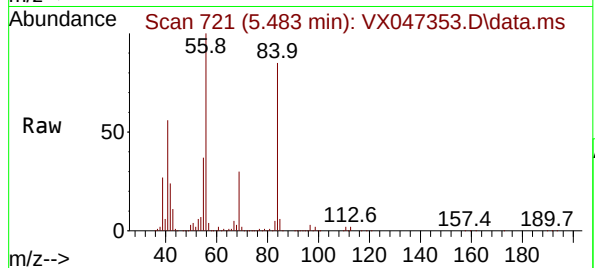
85 64.5 51.2 76.8





#31
Cyclohexane
Concen: 148.180 ug/l
RT: 5.483 min Scan# 721
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

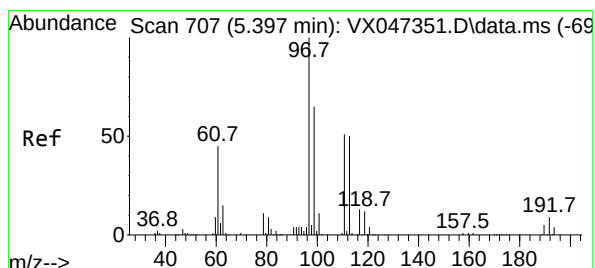
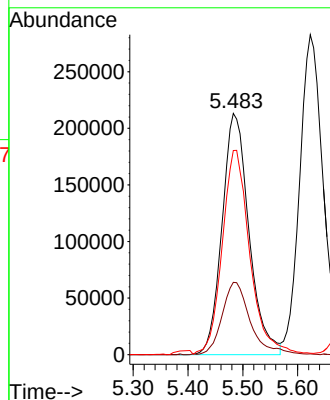
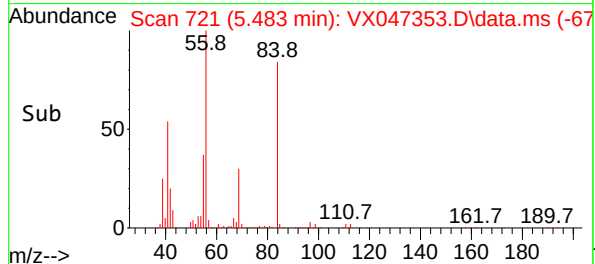
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 56 Resp: 727704
Ion Ratio Lower Upper
56 100
69 29.6 24.3 36.5
84 83.0 65.3 97.9

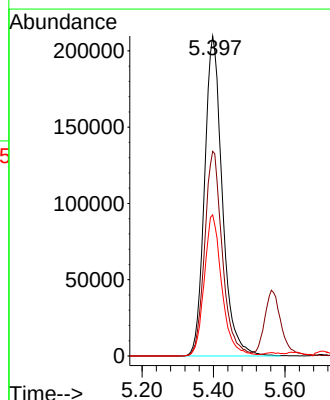
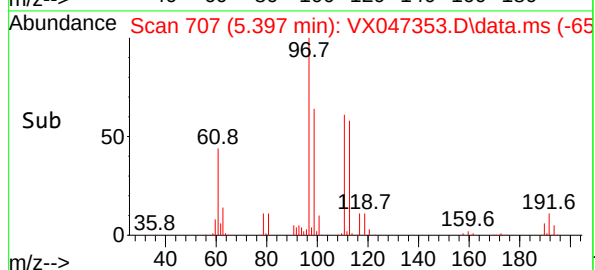
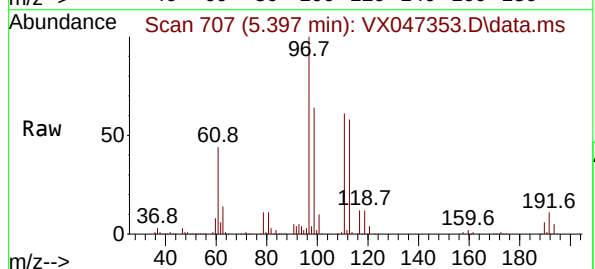
Manual Integrations
APPROVED

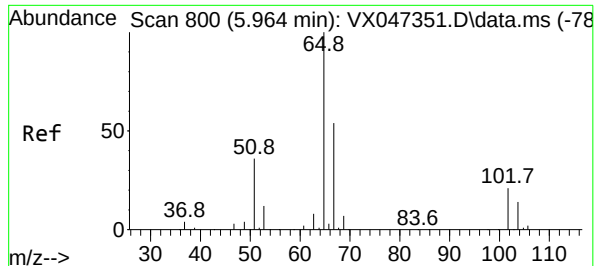
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#32
1,1,1-Trichloroethane
Concen: 154.630 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 97 Resp: 723635
Ion Ratio Lower Upper
97 100
99 63.8 51.4 77.0
61 43.8 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 163.328 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 498398

Ion Ratio Lower Upper

65 100

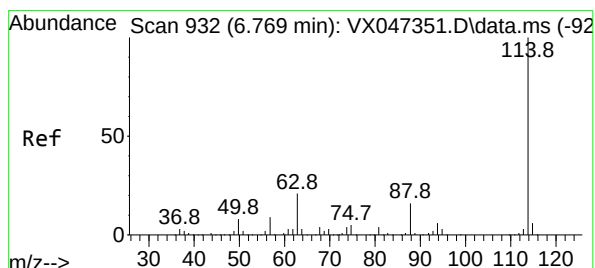
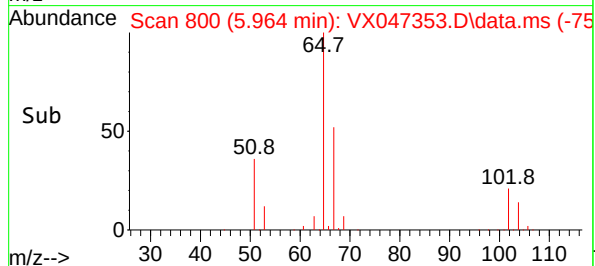
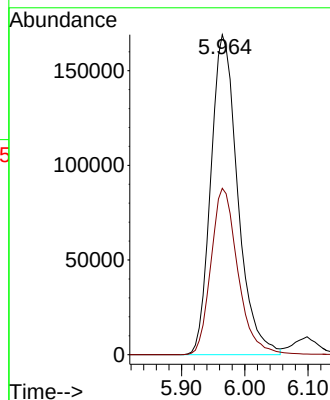
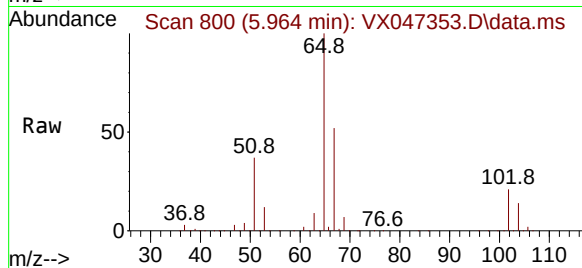
67 52.3 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

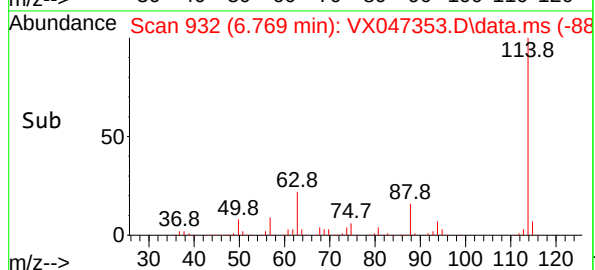
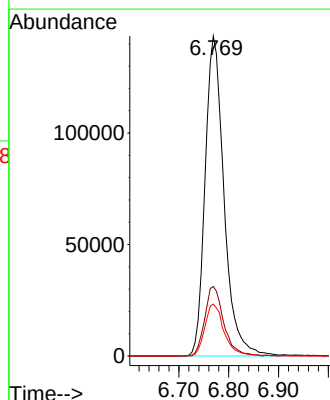
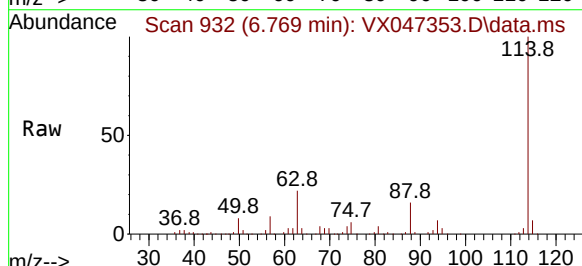
Tgt Ion:114 Resp: 378315

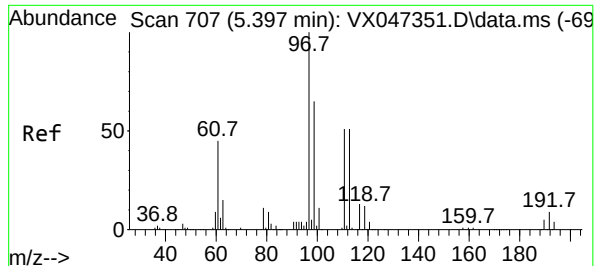
Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.4

88 16.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 161.390 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:113 Resp: 396260

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.2

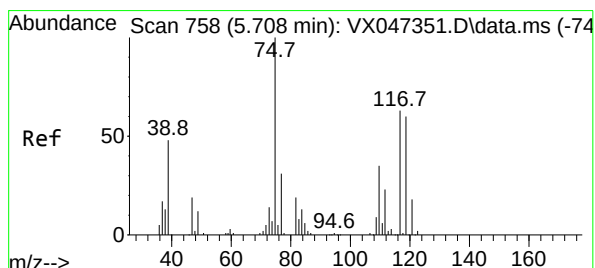
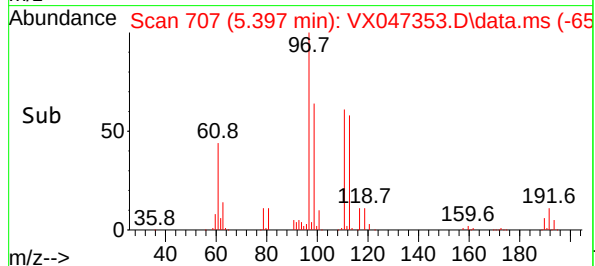
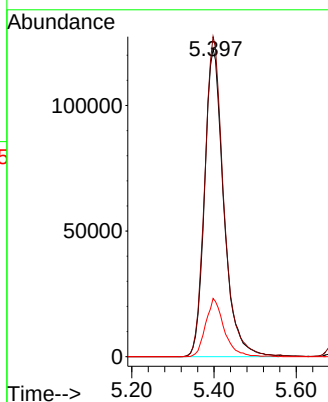
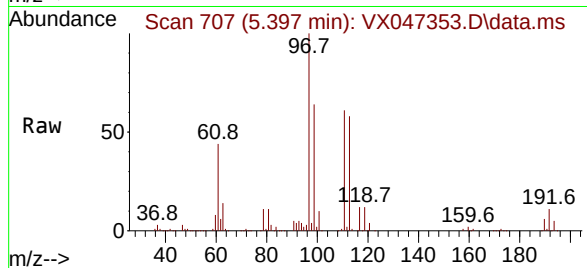
192 18.2 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#36

1,1-Dichloropropene

Concen: 147.104 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.006 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

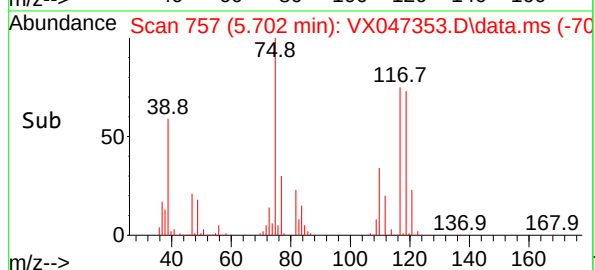
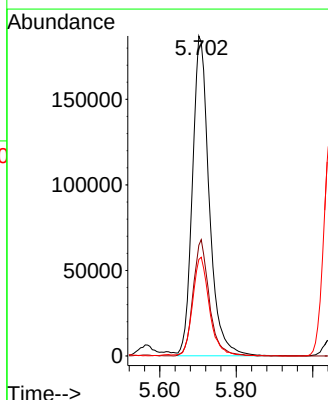
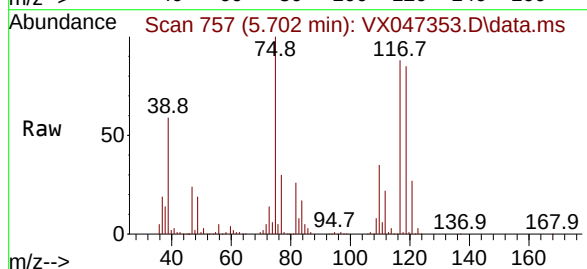
Tgt Ion: 75 Resp: 570157

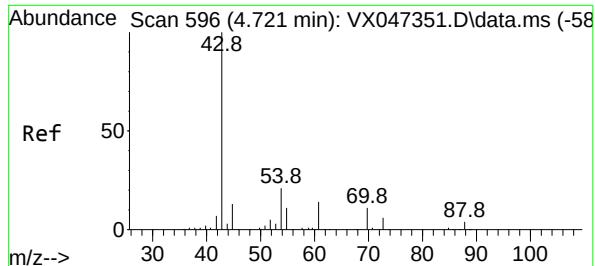
Ion Ratio Lower Upper

75 100

110 35.1 17.4 52.2

77 31.0 24.4 36.6





#37

Ethyl Acetate

Concen: 147.465 ug/l

RT: 4.727 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 593362

Ion Ratio Lower Upper

43 100

61 10.7 9.4 14.2

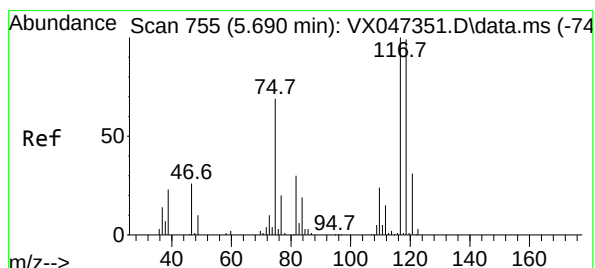
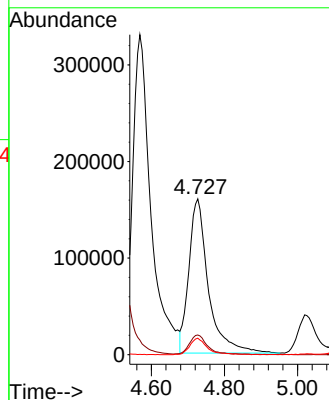
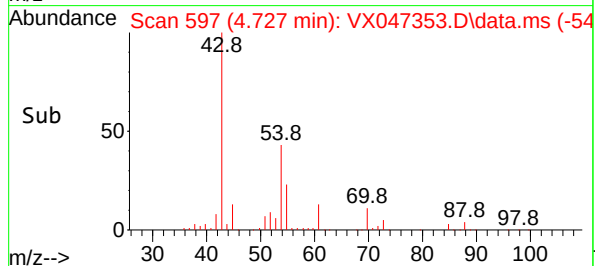
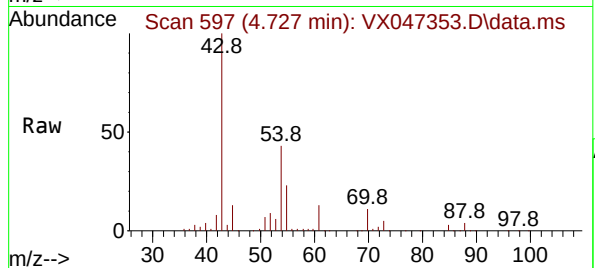
70 9.6 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#38

Carbon Tetrachloride

Concen: 148.444 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

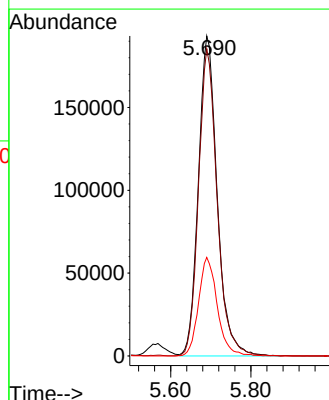
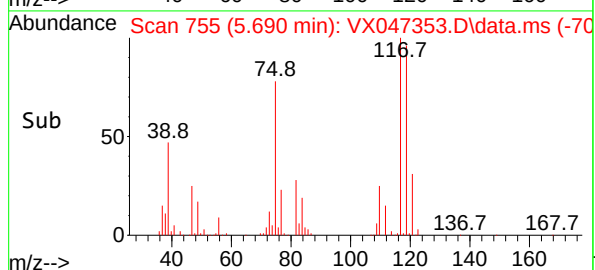
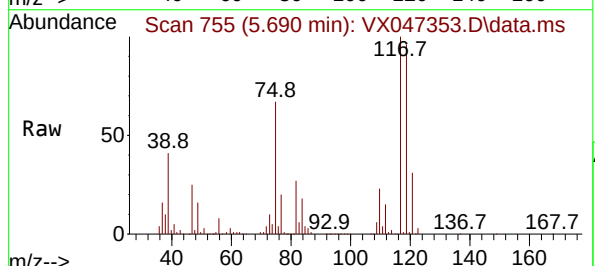
Tgt Ion:117 Resp: 628733

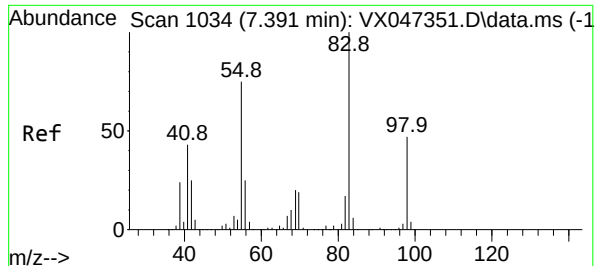
Ion Ratio Lower Upper

117 100

119 96.0 78.5 117.7

121 30.8 24.7 37.1





#39

Methylcyclohexane

Concen: 150.814 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 72912

Ion Ratio Lower Upper

83 100

55 78.4 60.0 90.0

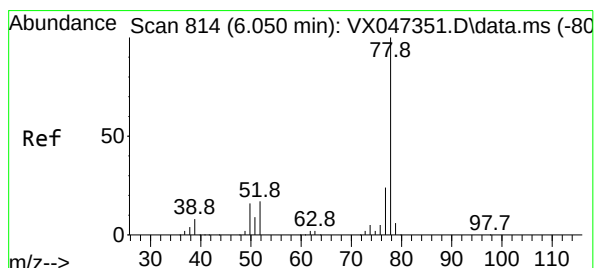
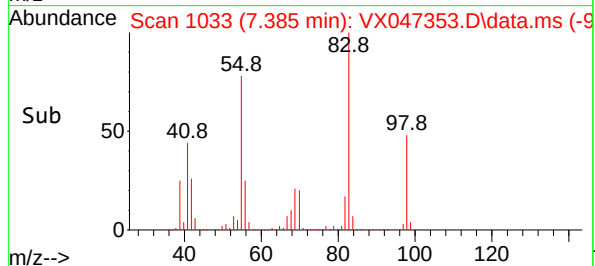
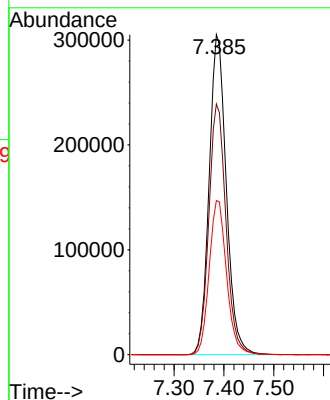
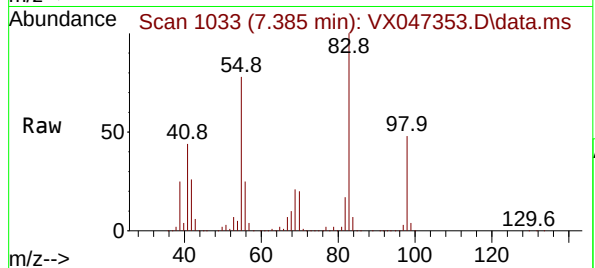
98 48.1 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#40

Benzene

Concen: 147.130 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX047353.D

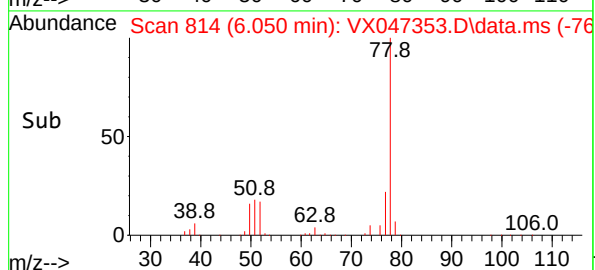
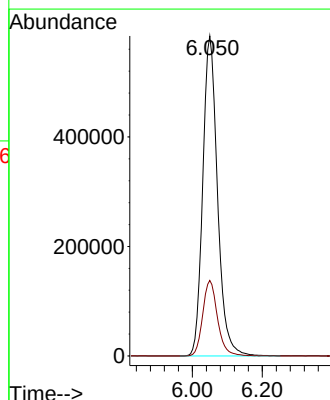
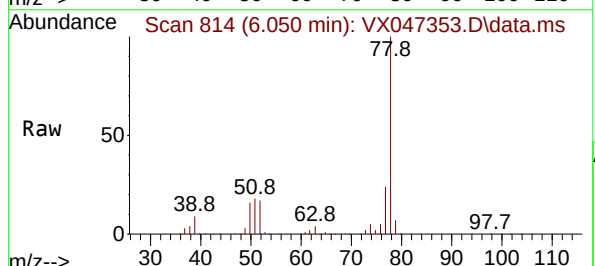
Acq: 15 Aug 2025 11:05

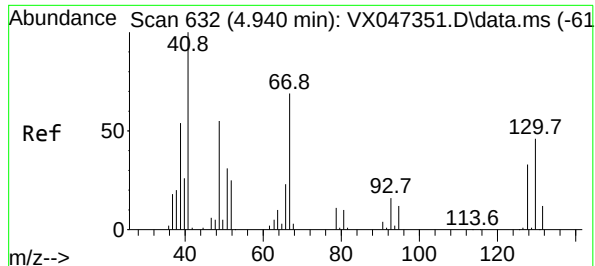
Tgt Ion: 78 Resp: 1706889

Ion Ratio Lower Upper

78 100

77 23.6 19.0 28.4





#41

Methacrylonitrile

Concen: 154.600 ug/l

RT: 4.940 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 41 Resp: 26232

Ion Ratio Lower Upper

41 100

39 53.5 45.4 68.2

67 81.1 64.0 96.0

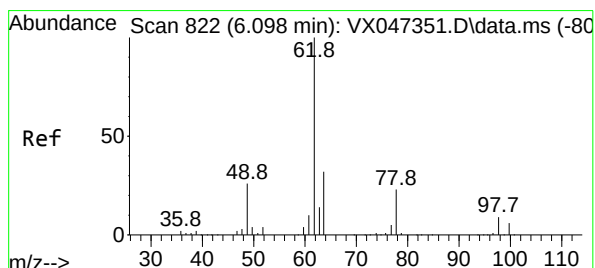
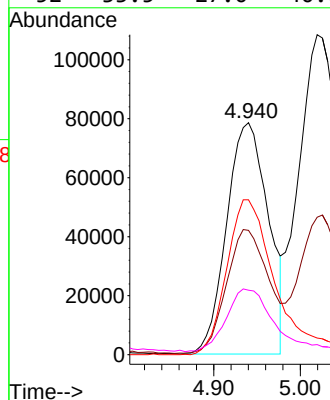
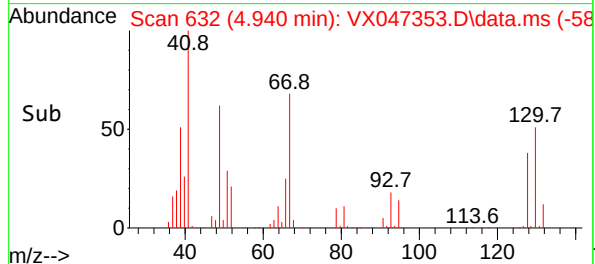
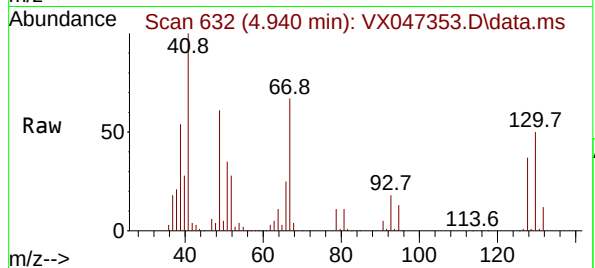
52 33.5 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#42

1,2-Dichloroethane

Concen: 145.829 ug/l

RT: 6.098 min Scan# 822

Delta R.T. 0.000 min

Lab File: VX047353.D

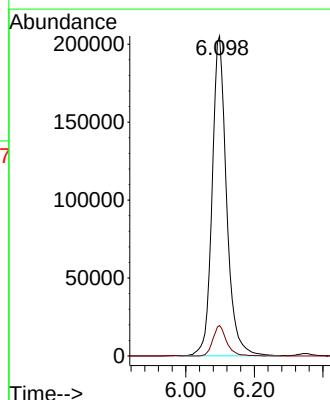
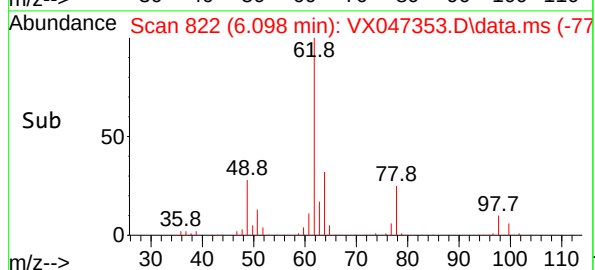
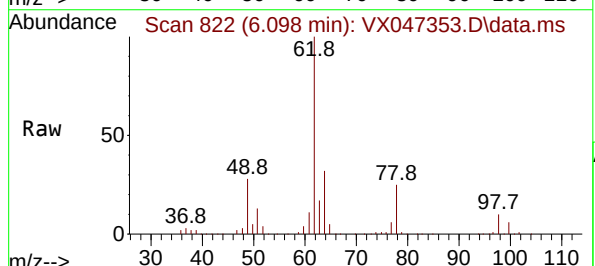
Acq: 15 Aug 2025 11:05

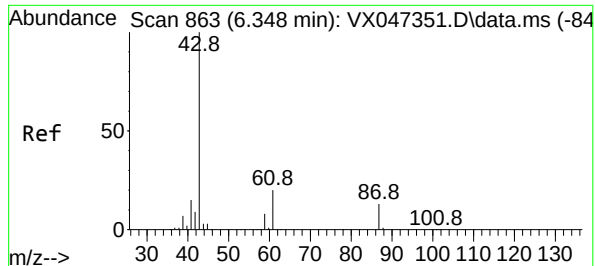
Tgt Ion: 62 Resp: 599255

Ion Ratio Lower Upper

62 100

98 9.1 0.0 18.0





#43

Isopropyl Acetate

Concen: 157.486 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 910348

Ion Ratio Lower Upper

43 100

61 19.5 15.4 23.0

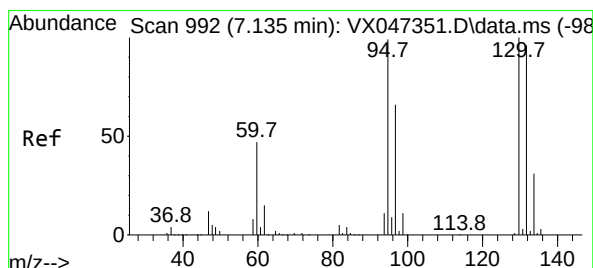
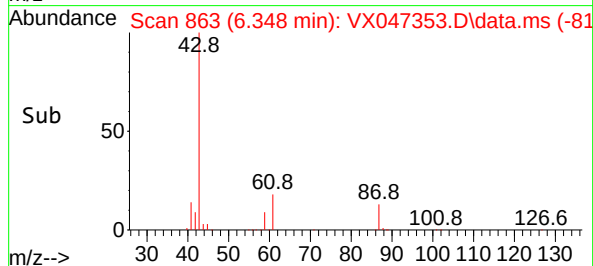
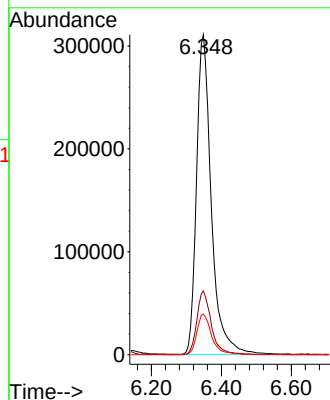
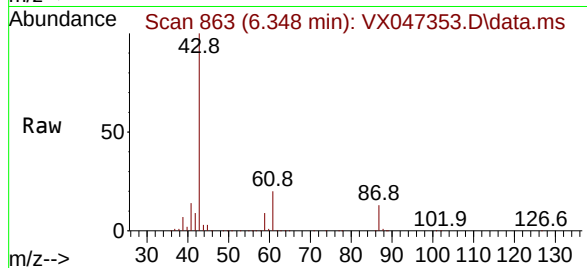
87 12.7 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#44

Trichloroethene

Concen: 149.252 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX047353.D

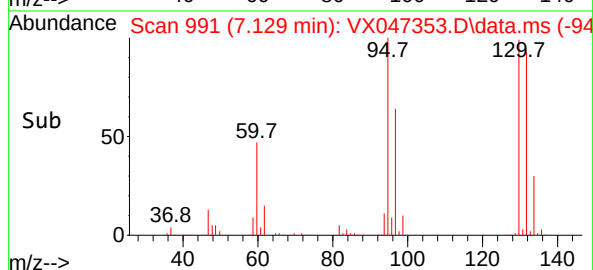
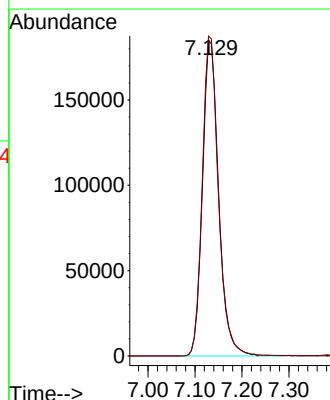
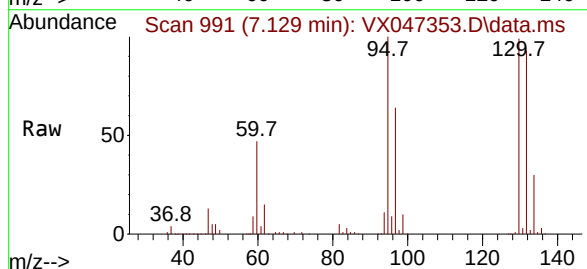
Acq: 15 Aug 2025 11:05

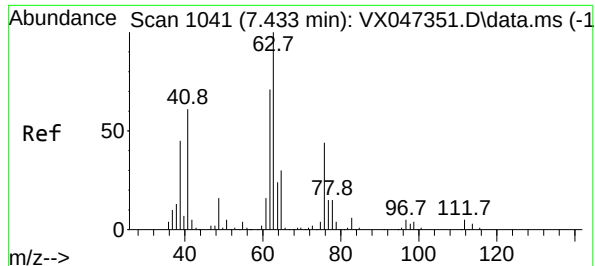
Tgt Ion:130 Resp: 443361

Ion Ratio Lower Upper

130 100

95 101.2 0.0 198.6





#45

1,2-Dichloropropane

Concen: 149.161 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 43351

Ion Ratio Lower Upper

63 100

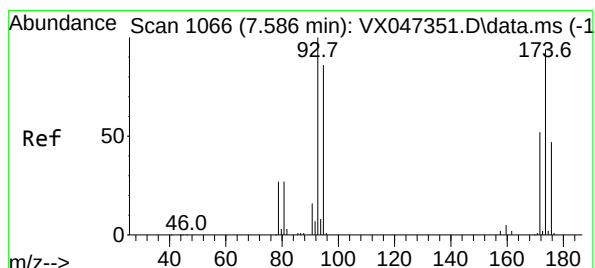
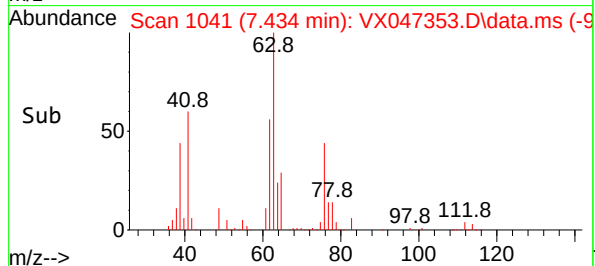
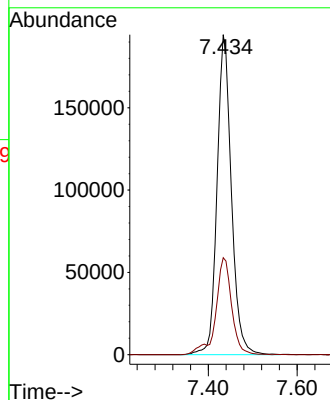
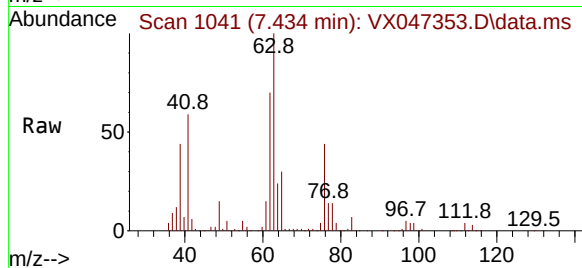
65 30.3 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#46

Dibromomethane

Concen: 148.288 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

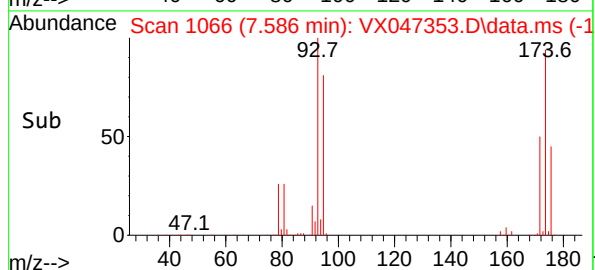
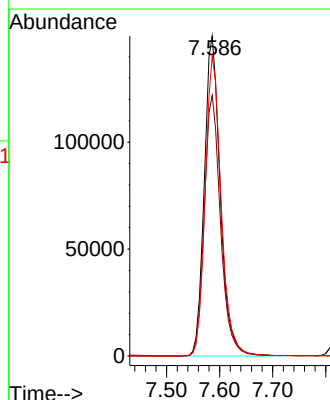
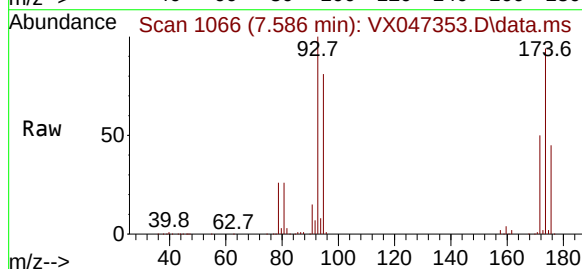
Tgt Ion: 93 Resp: 312886

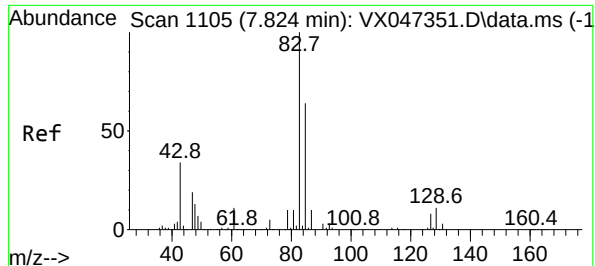
Ion Ratio Lower Upper

93 100

95 82.9 68.0 102.0

174 93.9 75.8 113.6





#47

Bromodichloromethane

Concen: 148.773 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

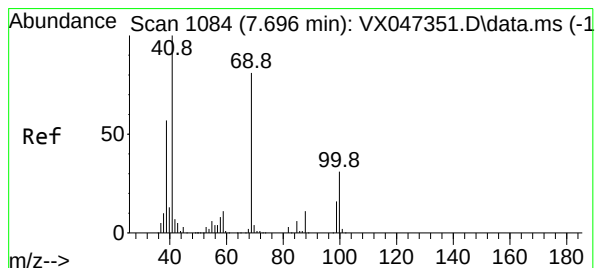
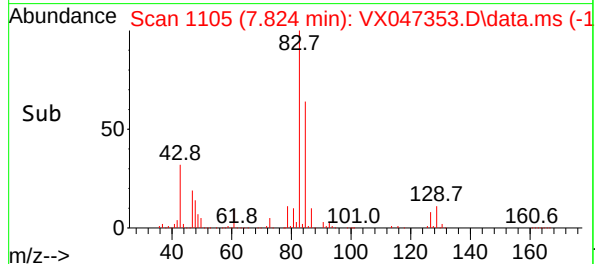
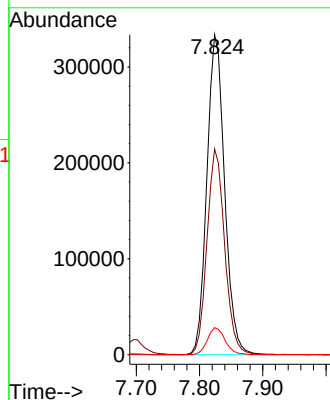
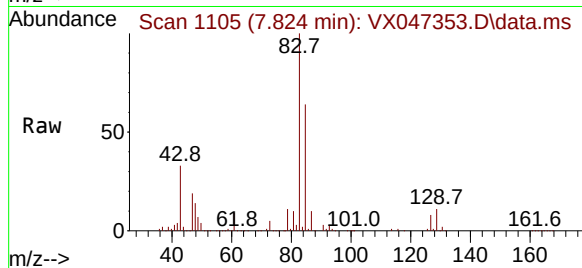
VSTDIC150

Tgt Ion:	83	Resp:	65076
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.6
127	8.5	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#48

Methyl methacrylate

Concen: 157.749 ug/l

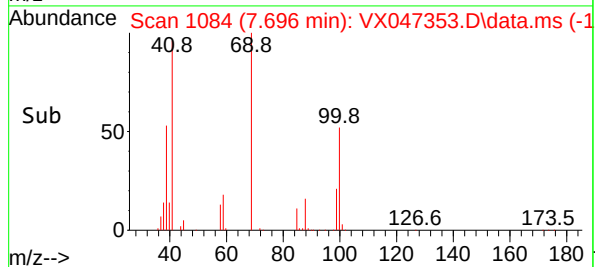
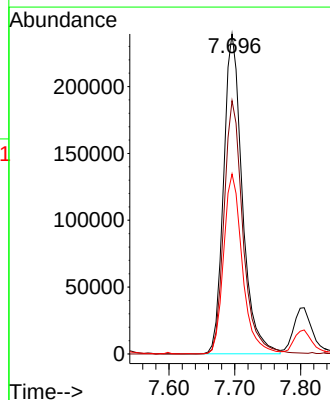
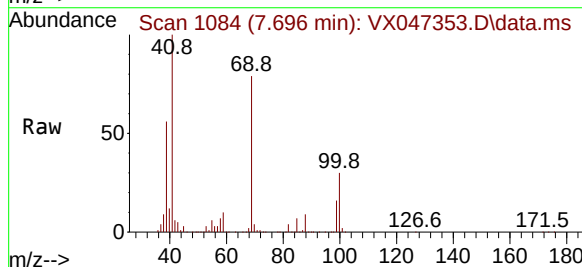
RT: 7.696 min Scan# 1084

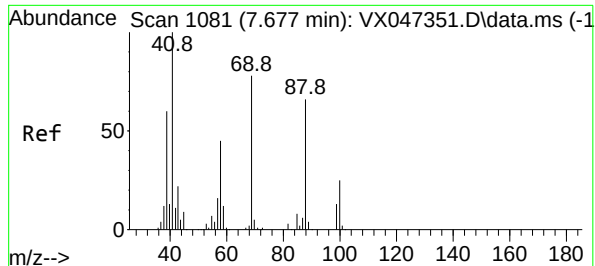
Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Tgt Ion:	41	Resp:	473316
Ion	Ratio	Lower	Upper
41	100		
69	80.0	65.0	97.4
39	56.4	45.7	68.5





#49

1,4-Dioxane

Concen: 3105.263 ug/l

RT: 7.677 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 88 Resp: 8848

Ion Ratio Lower Upper

88 100

43 42.2 32.4 48.6

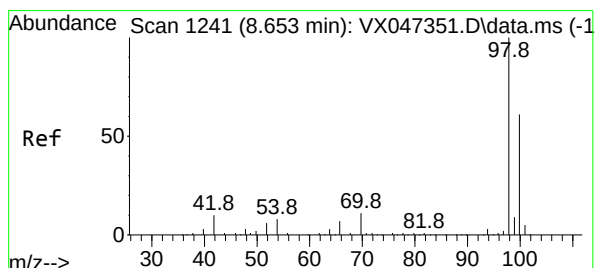
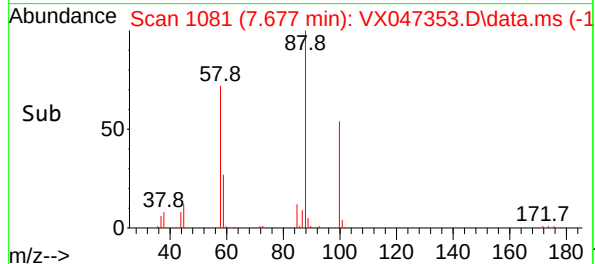
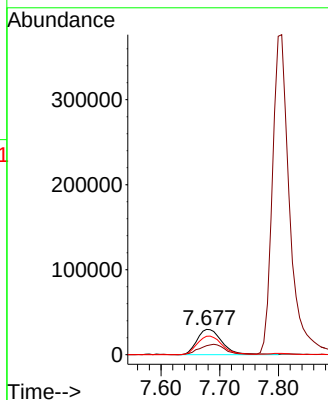
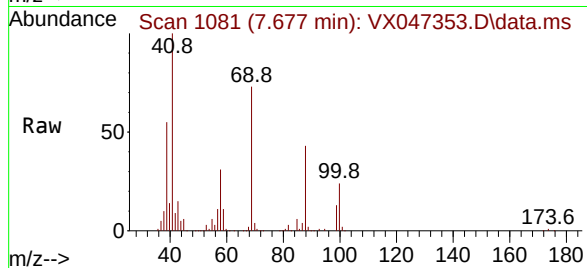
58 73.1 56.9 85.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#50

Toluene-d8

Concen: 159.272 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047353.D

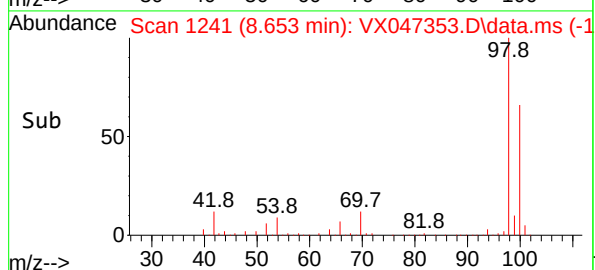
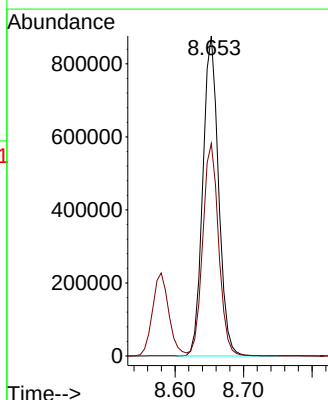
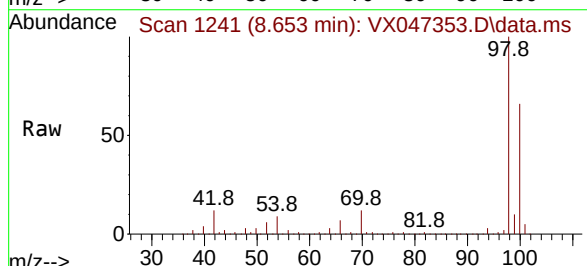
Acq: 15 Aug 2025 11:05

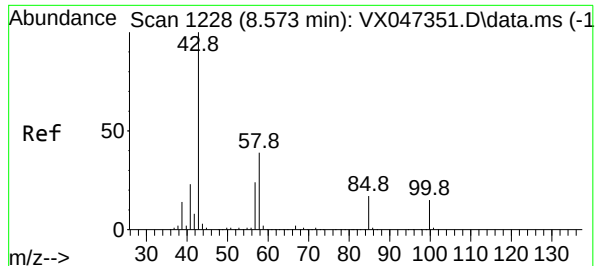
Tgt Ion: 98 Resp: 1397755

Ion Ratio Lower Upper

98 100

100 67.3 53.9 80.9





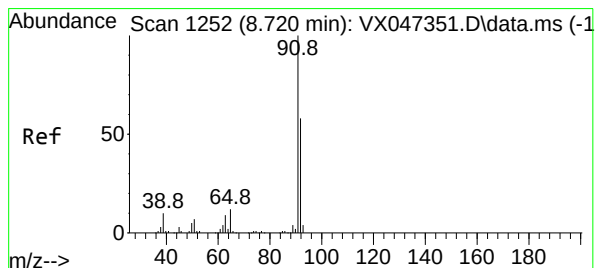
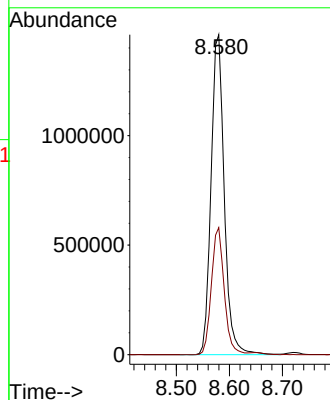
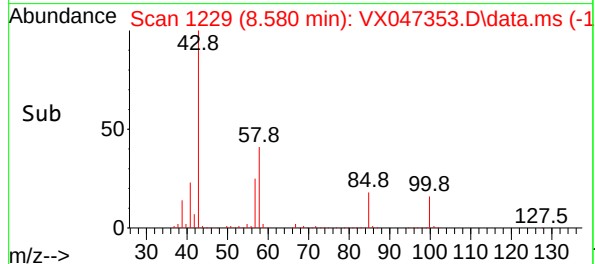
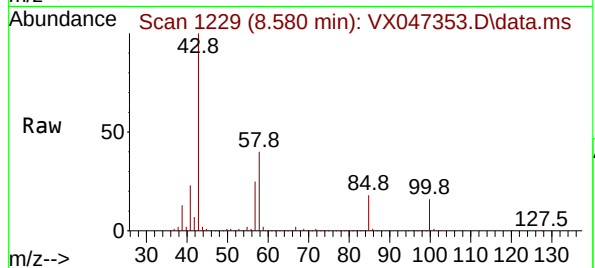
#51
4-Methyl-2-Pentanone
Concen: 757.992 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 252140
Ion Ratio Lower Upper
43 100
58 38.7 31.2 46.8

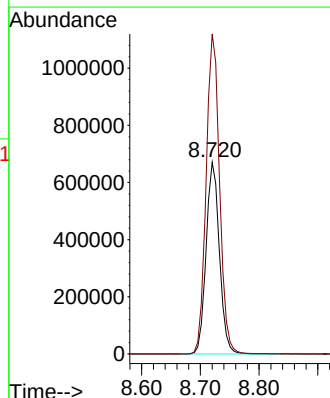
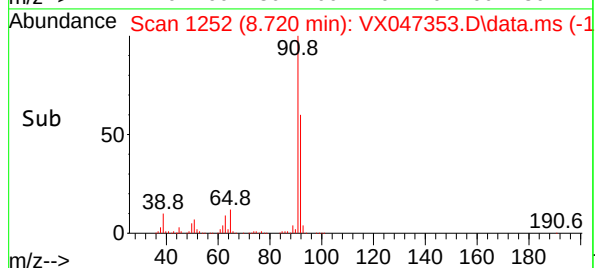
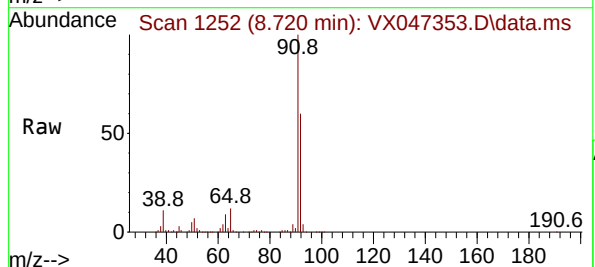
Manual Integrations
APPROVED

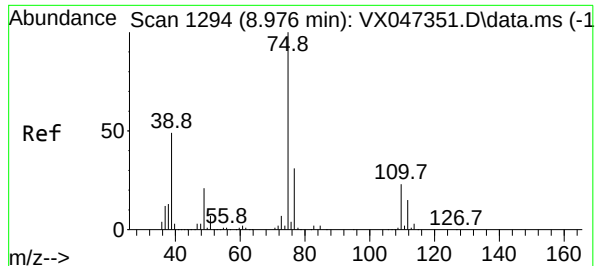
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#52
Toluene
Concen: 146.750 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 92 Resp: 1052008
Ion Ratio Lower Upper
92 100
91 168.9 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 163.583 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 624499

Ion Ratio Lower Upper

75 100

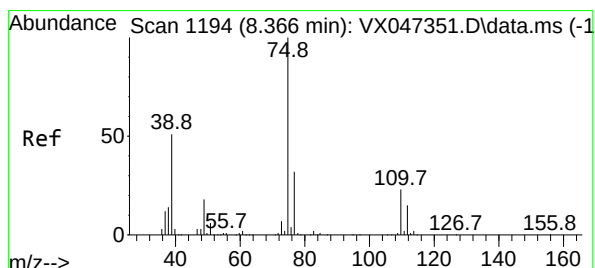
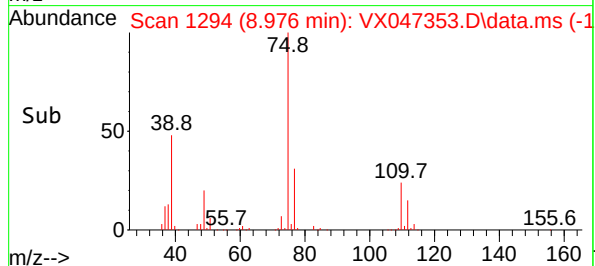
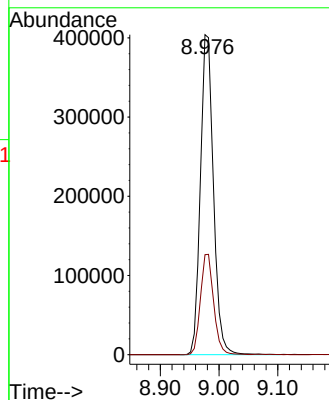
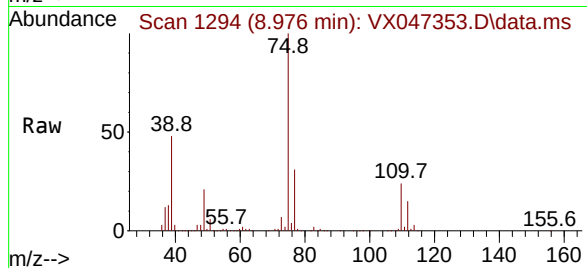
77 31.3 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#54

cis-1,3-Dichloropropene

Concen: 158.029 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

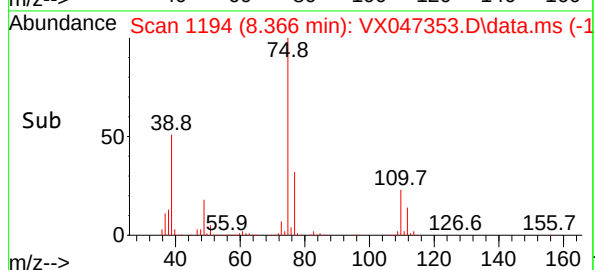
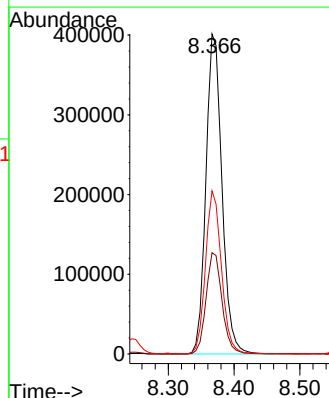
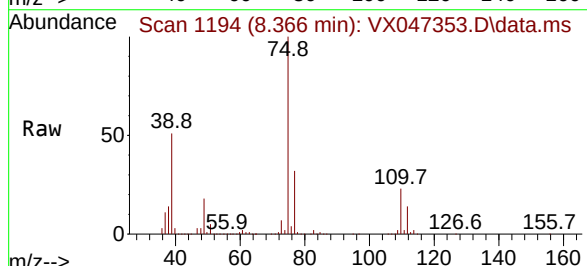
Tgt Ion: 75 Resp: 682860

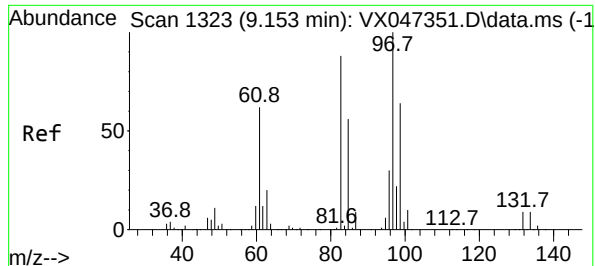
Ion Ratio Lower Upper

75 100

77 31.7 25.6 38.4

39 50.9 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 144.868 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 394302

Ion Ratio Lower Upper

97 100

83 85.0 70.6 106.0

85 54.5 44.7 67.1

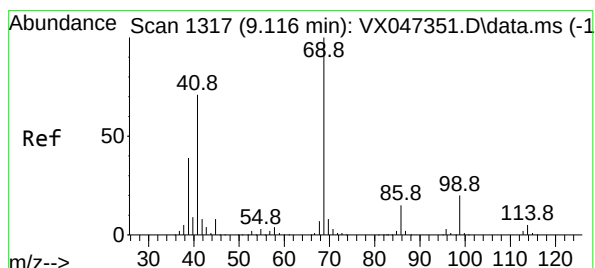
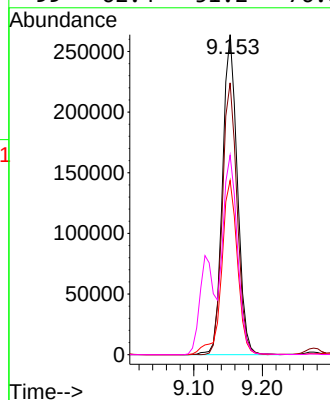
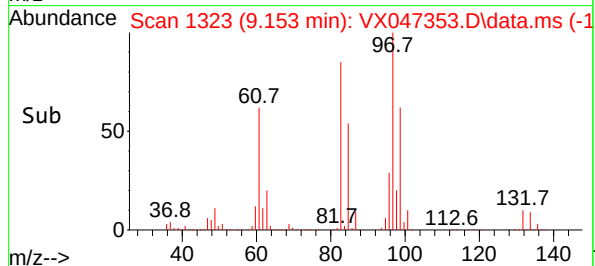
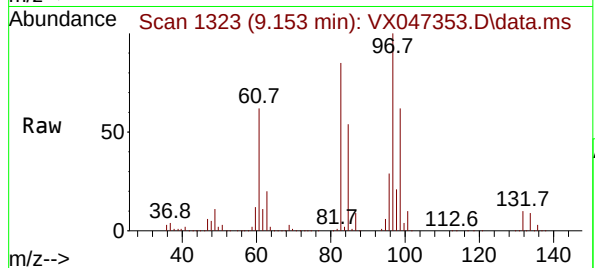
99 62.4 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#56

Ethyl methacrylate

Concen: 161.020 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

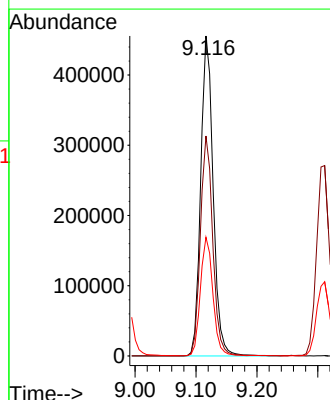
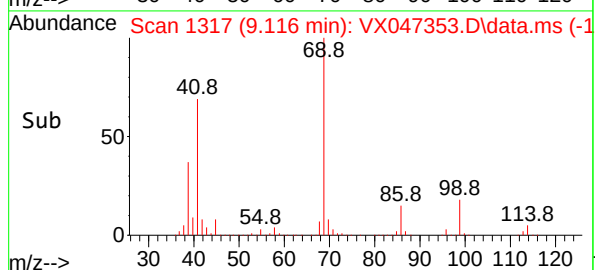
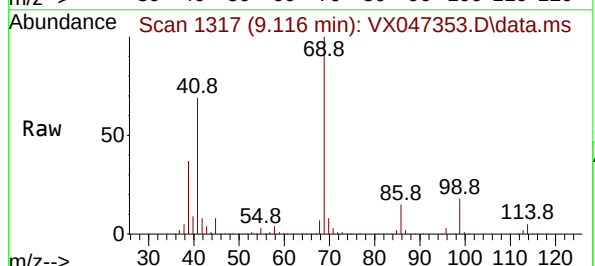
Tgt Ion: 69 Resp: 646154

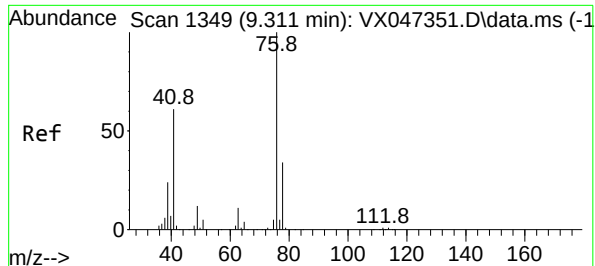
Ion Ratio Lower Upper

69 100

41 68.4 55.3 82.9

39 37.1 30.2 45.2





#57

1,3-Dichloropropane

Concen: 144.911 ug/l

RT: 9.311 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 67208

Ion Ratio Lower Upper

76 100

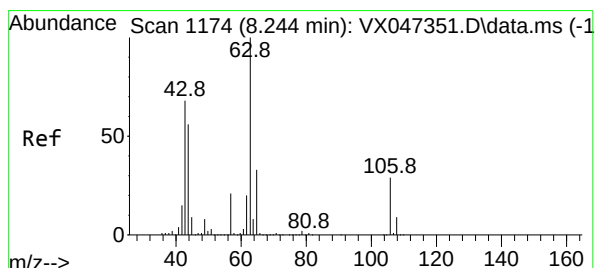
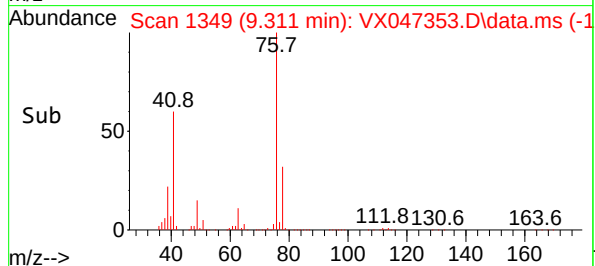
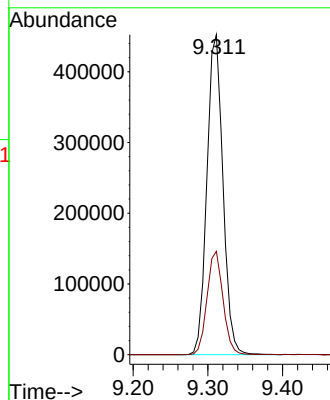
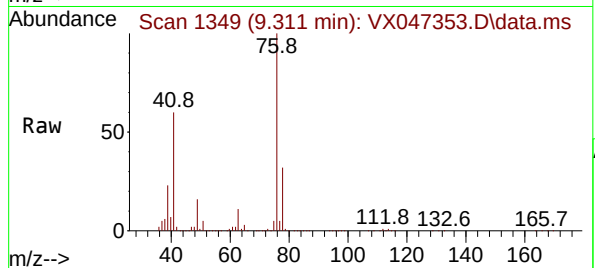
78 32.3 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 748.853 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047353.D

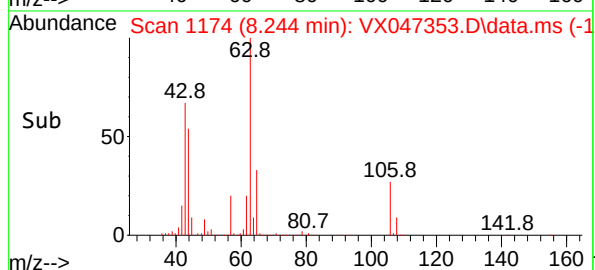
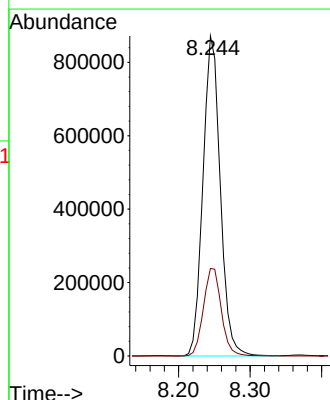
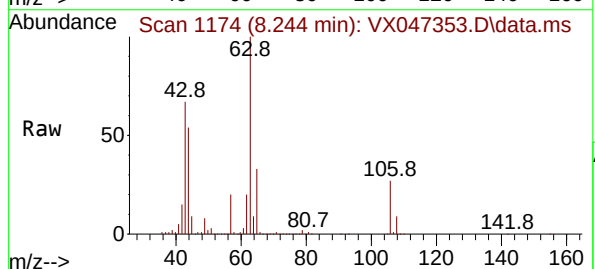
Acq: 15 Aug 2025 11:05

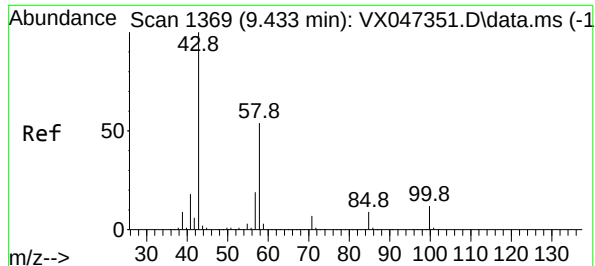
Tgt Ion: 63 Resp: 1468000

Ion Ratio Lower Upper

63 100

106 28.2 22.8 34.2





#59

2-Hexanone

Concen: 755.168 ug/l

RT: 9.433 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 1737610

Ion Ratio Lower Upper

43 100

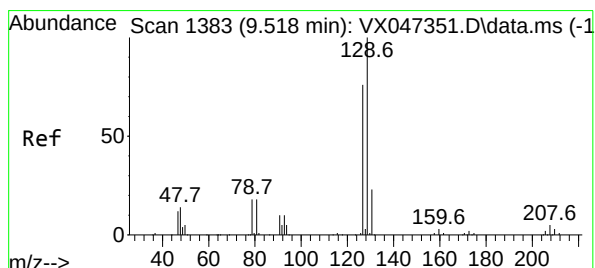
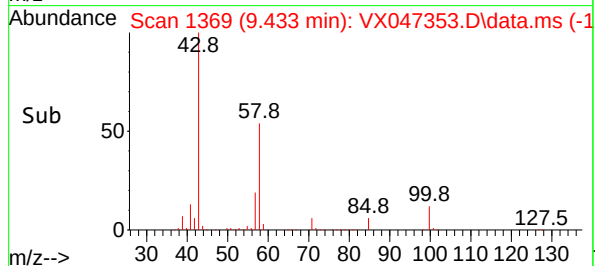
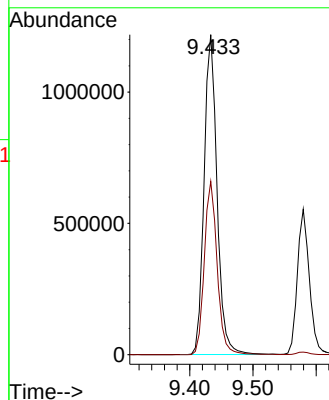
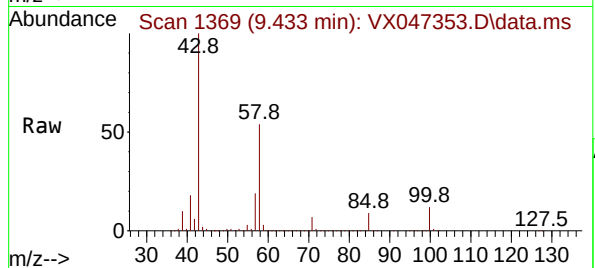
58 53.9 26.9 80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#60

Dibromochloromethane

Concen: 147.358 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VX047353.D

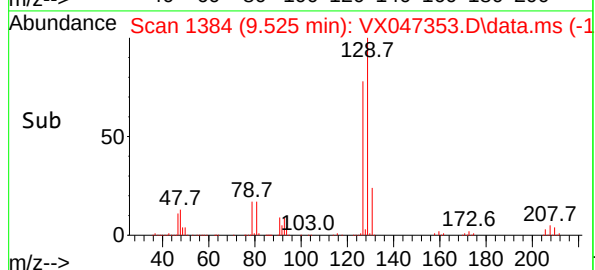
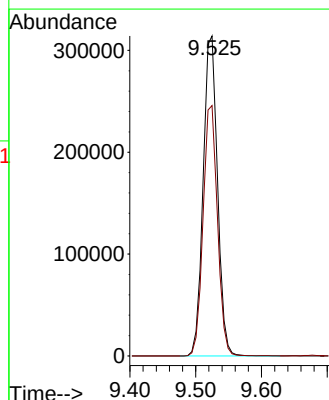
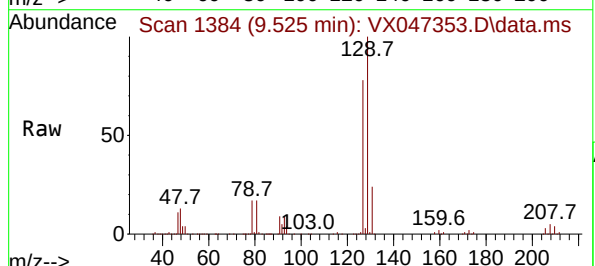
Acq: 15 Aug 2025 11:05

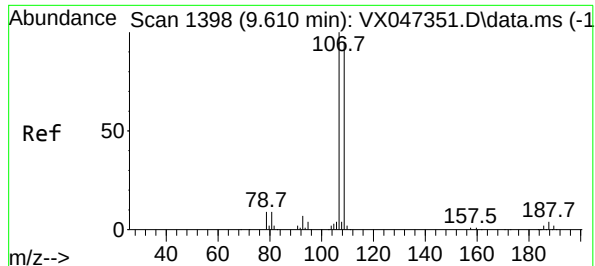
Tgt Ion:129 Resp: 476650

Ion Ratio Lower Upper

129 100

127 78.5 38.9 116.6





#61

1,2-Dibromoethane

Concen: 146.099 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:107 Resp: 41005

Ion Ratio Lower Upper

107 100

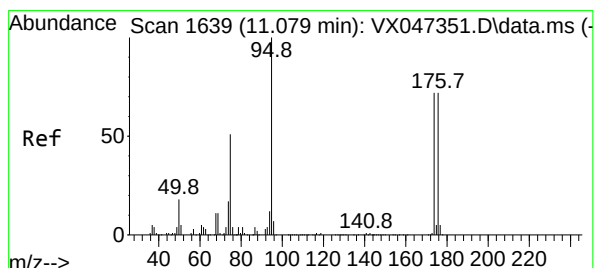
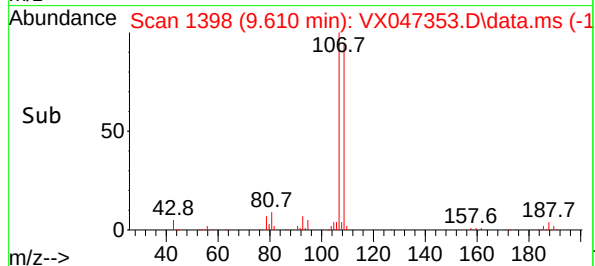
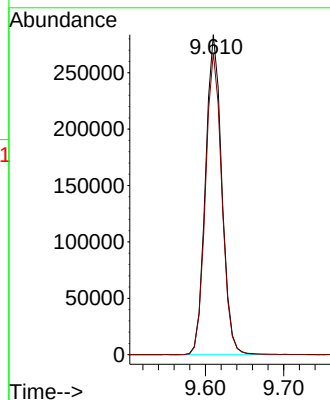
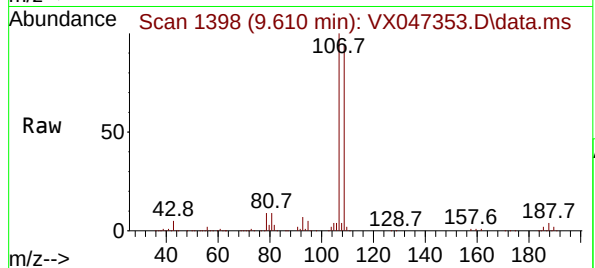
109 94.5 76.2 114.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#62

4-Bromofluorobenzene

Concen: 157.125 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

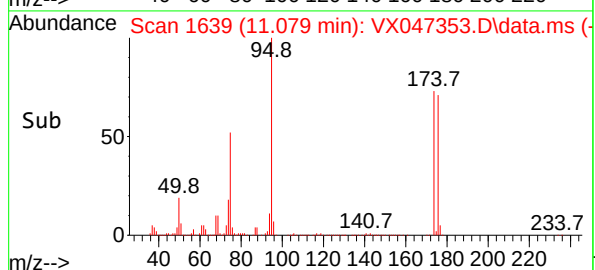
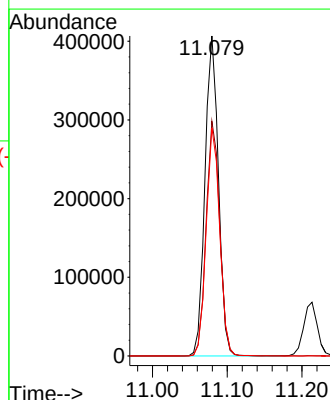
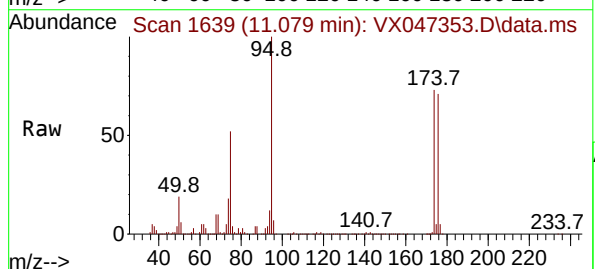
Tgt Ion: 95 Resp: 508844

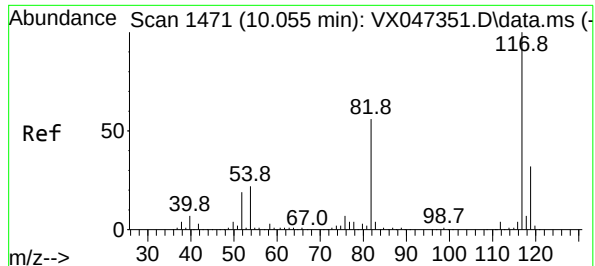
Ion Ratio Lower Upper

95 100

174 74.2 0.0 148.0

176 71.3 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:117 Resp: 330090

Ion Ratio Lower Upper

117 100

82 56.7 45.0 67.4

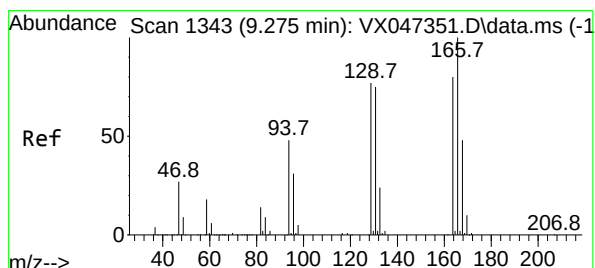
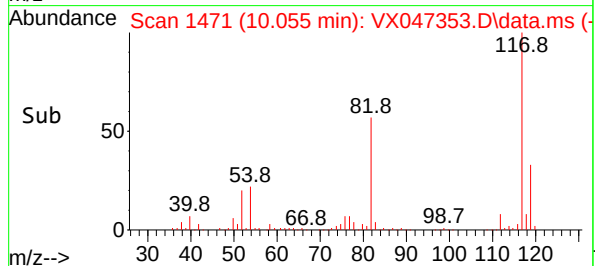
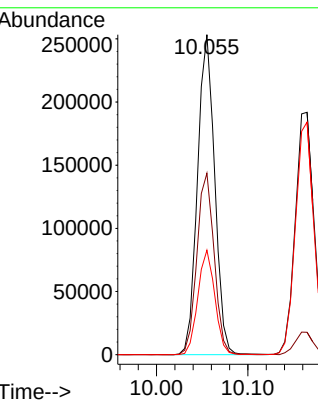
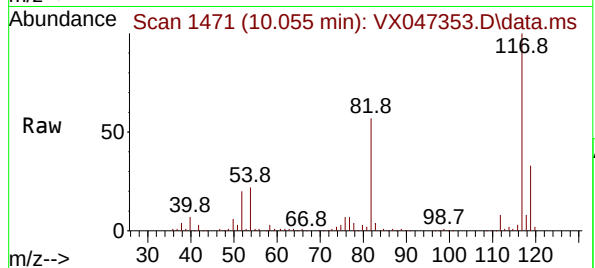
119 32.7 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#64

Tetrachloroethene

Concen: 149.518 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Tgt Ion:164 Resp: 356989

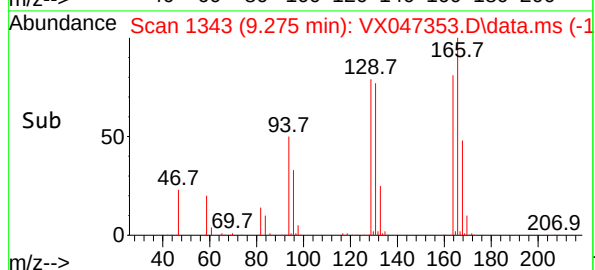
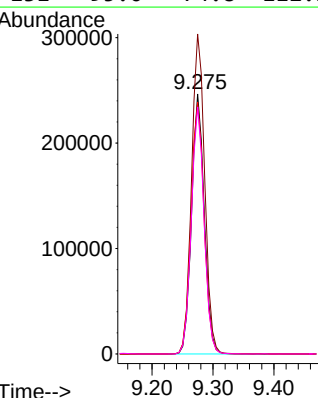
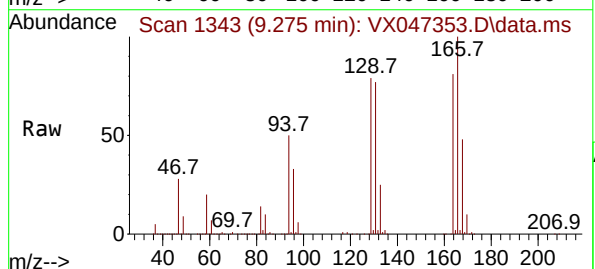
Ion Ratio Lower Upper

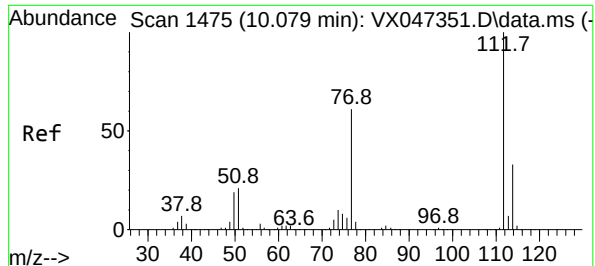
164 100

166 123.0 100.3 150.5

129 96.8 77.7 116.5

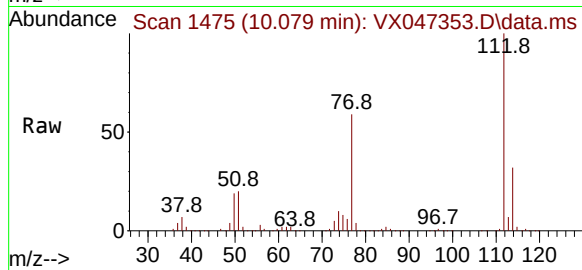
131 95.0 74.8 112.2





#65
Chlorobenzene
Concen: 148.370 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

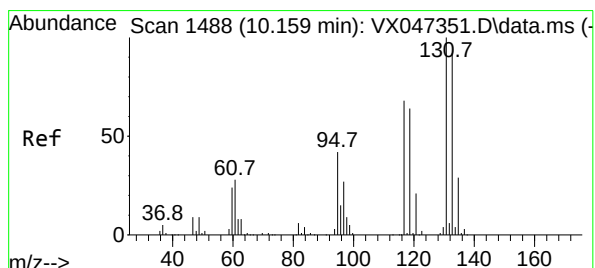
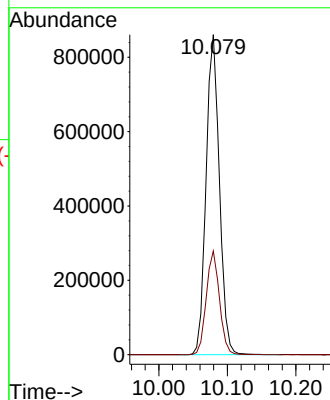
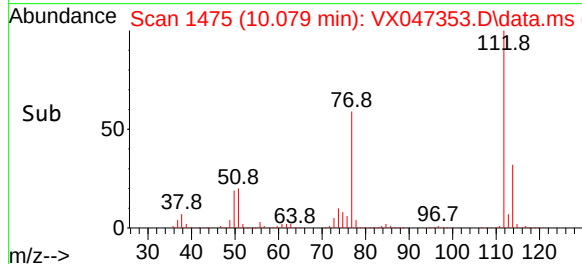
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



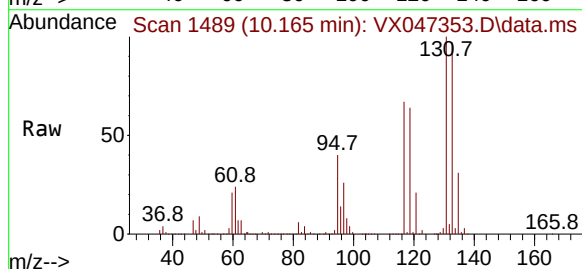
Tgt Ion:112 Resp: 116384
Ion Ratio Lower Upper
112 100
114 32.4 26.4 39.6

Manual Integrations
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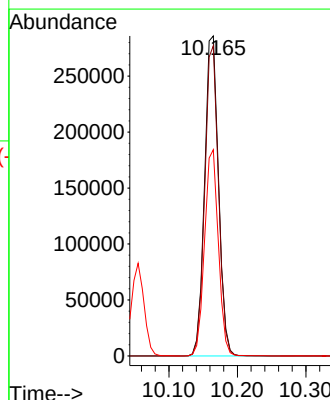
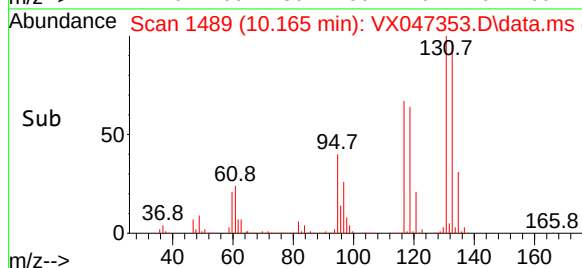
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

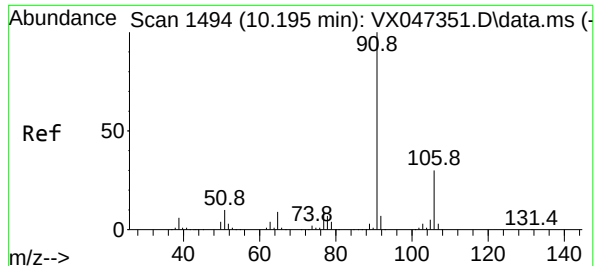


#66
1,1,1,2-Tetrachloroethane
Concen: 152.780 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05



Tgt Ion:131 Resp: 405123
Ion Ratio Lower Upper
131 100
133 95.4 47.6 142.9
119 63.9 32.3 96.8





#67

Ethyl Benzene

Concen: 150.823 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 2036272

Ion Ratio Lower Upper

91 100

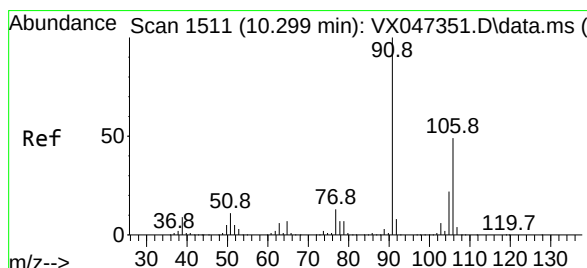
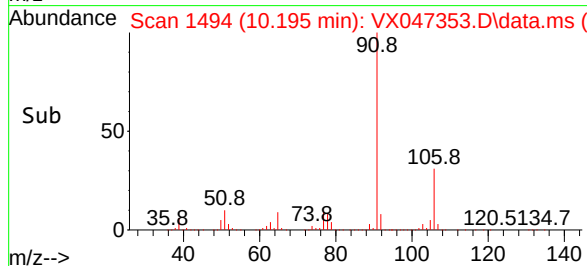
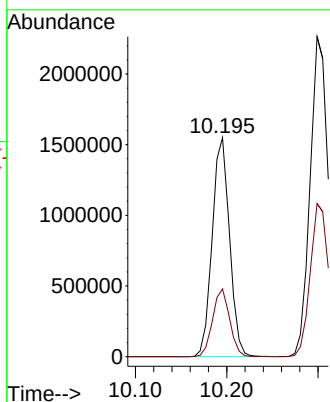
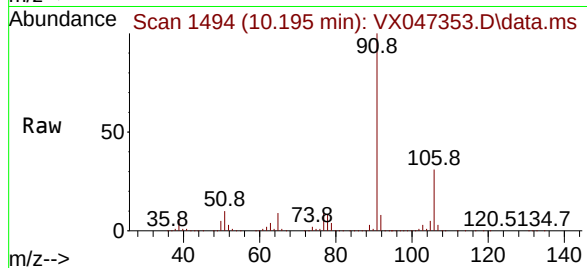
106 31.0 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#68

m/p-Xylenes

Concen: 298.466 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX047353.D

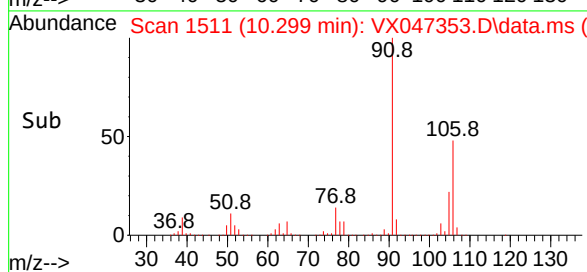
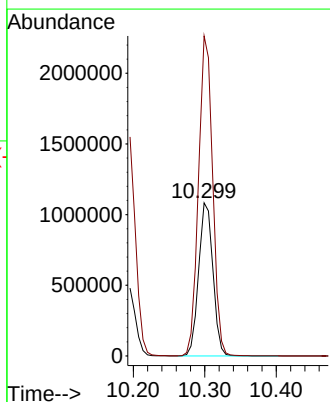
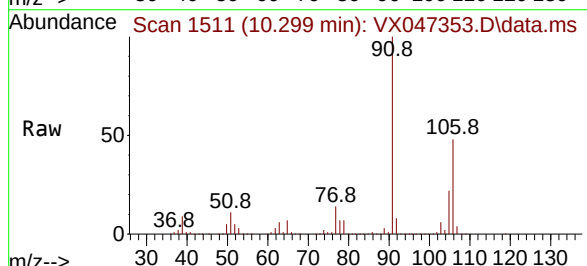
Acq: 15 Aug 2025 11:05

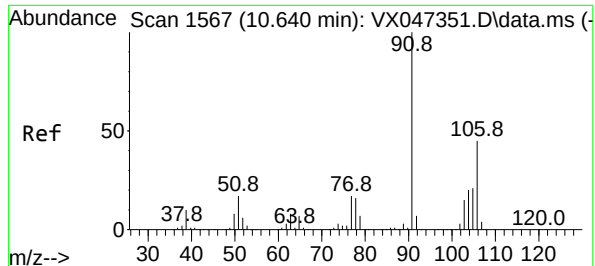
Tgt Ion:106 Resp: 1502542

Ion Ratio Lower Upper

106 100

91 207.4 164.7 247.1





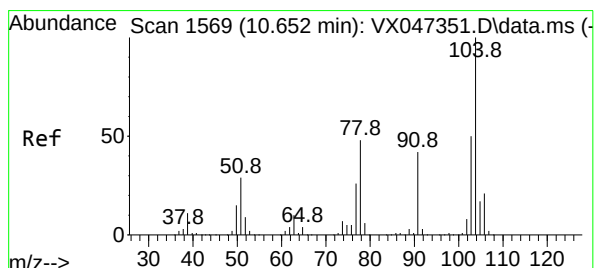
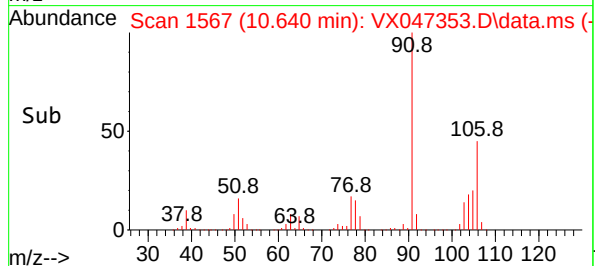
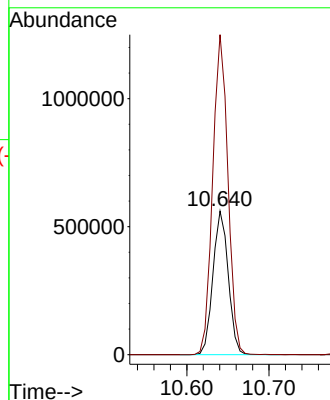
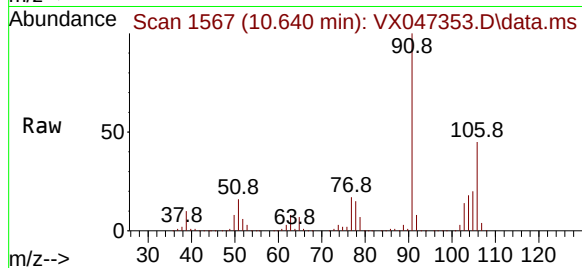
#69
o-Xylene
Concen: 149.683 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 725154
Ion Ratio Lower Upper
106 100
91 221.6 110.6 331.8

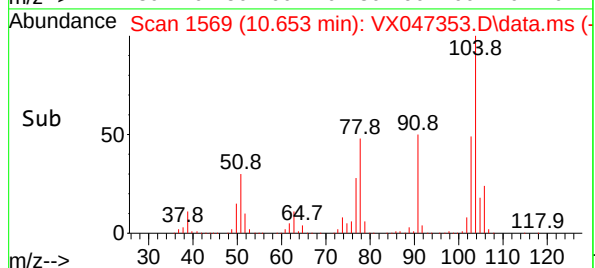
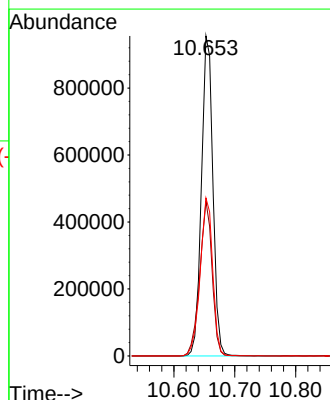
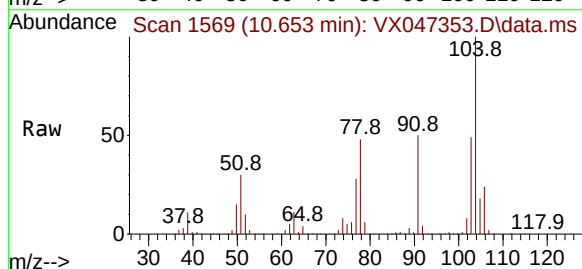
Manual Integrations
APPROVED

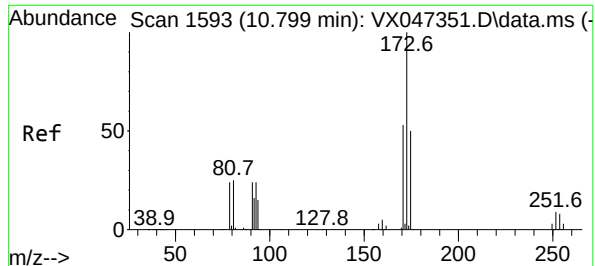
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#70
Styrene
Concen: 153.150 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

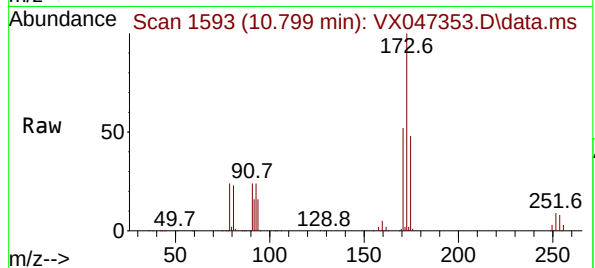
Tgt Ion:104 Resp: 1253652
Ion Ratio Lower Upper
104 100
78 52.1 41.8 62.8
103 53.9 43.6 65.4





#71
Bromoform
Concen: 155.427 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

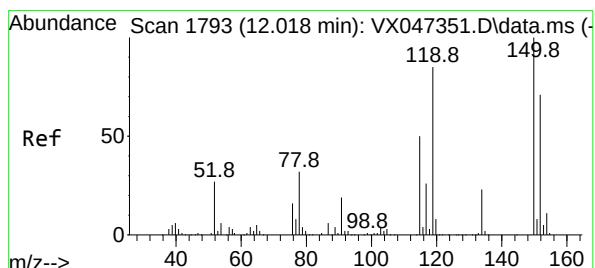
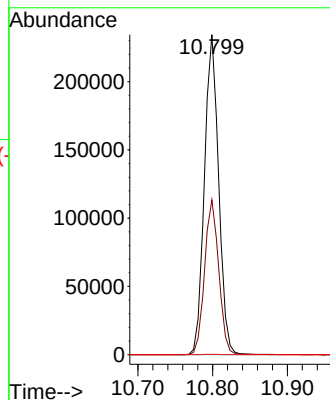
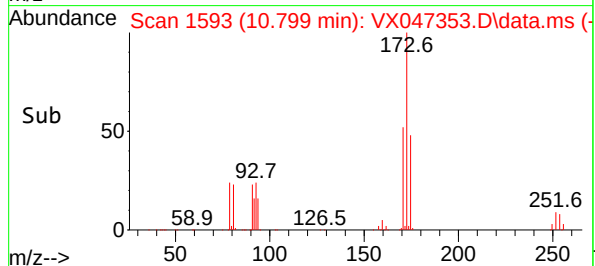
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



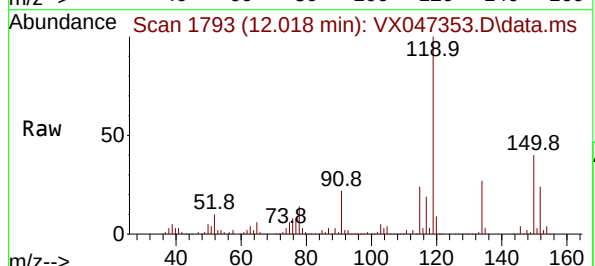
Tgt Ion:173 Resp: 309620
Ion Ratio Lower Upper
173 100
175 48.2 24.4 73.4
254 0.1 0.1 0.1

Manual Integrations
APPROVED

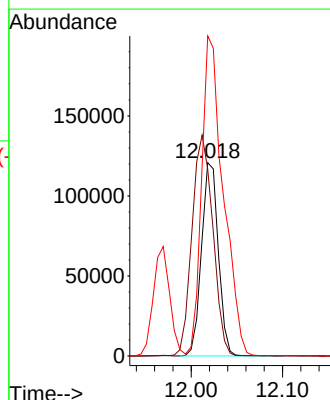
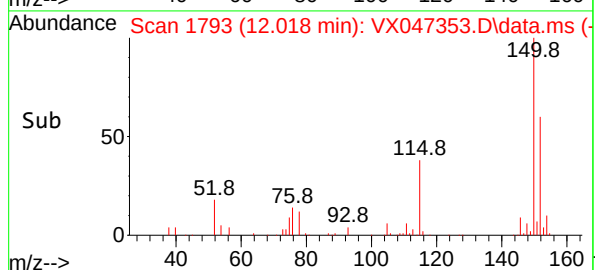
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

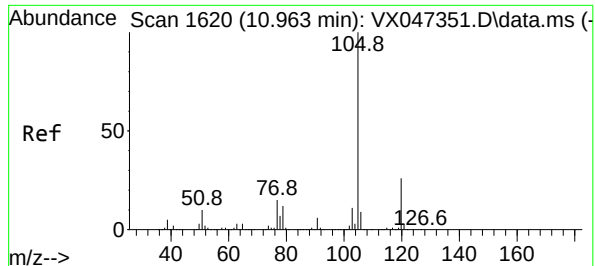


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05



Tgt Ion:152 Resp: 153878
Ion Ratio Lower Upper
152 100
115 142.6 44.6 133.8#
150 214.2 0.0 349.8





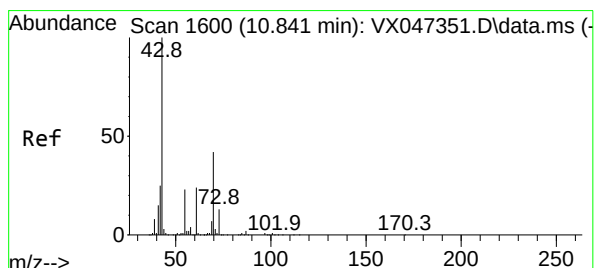
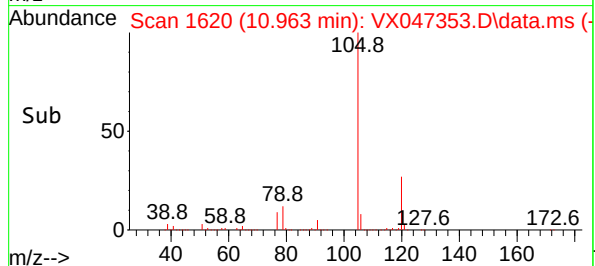
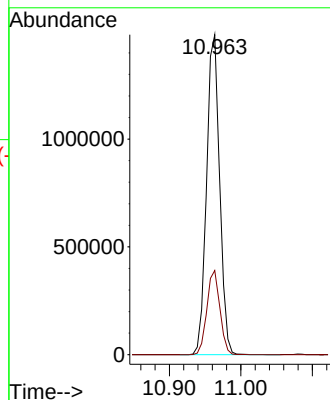
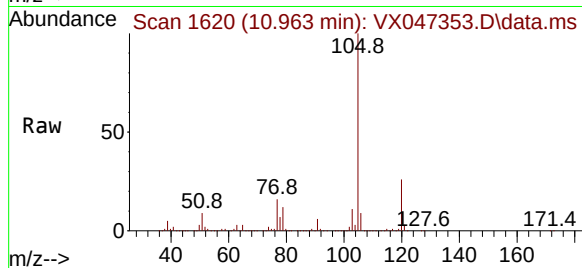
#73
Isopropylbenzene
Concen: 156.417 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:105 Resp: 188352
Ion Ratio Lower Upper
105 100
120 26.2 12.9 38.6

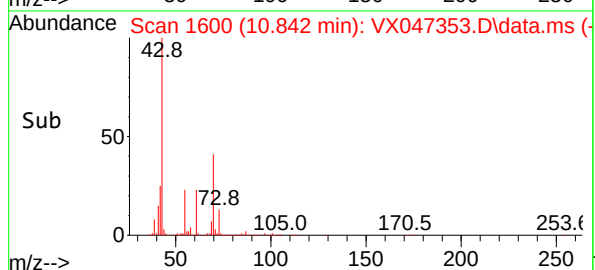
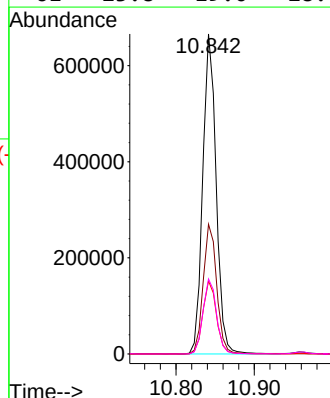
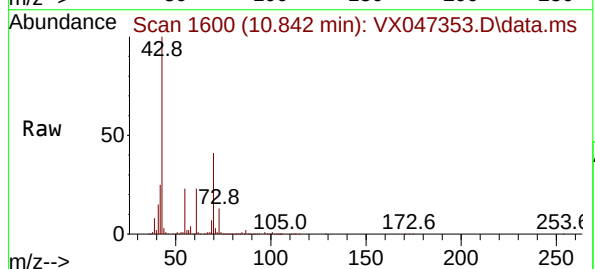
Manual Integrations
APPROVED

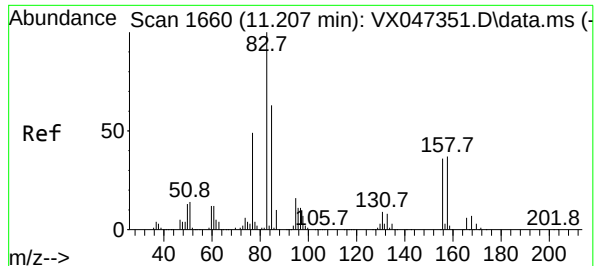
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#74
N-ethyl acetate
Concen: 172.791 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 43 Resp: 790124
Ion Ratio Lower Upper
43 100
70 41.1 33.1 49.7
55 23.3 19.0 28.6
61 23.8 19.0 28.6





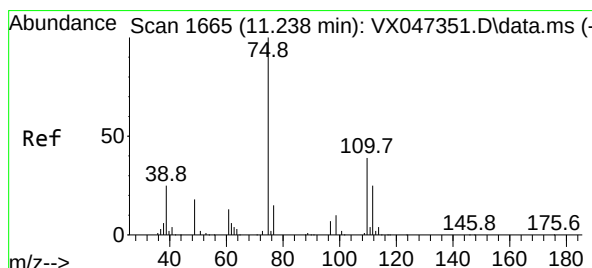
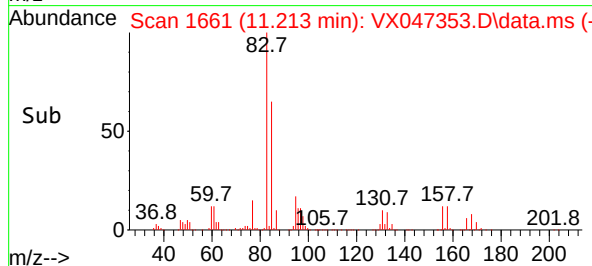
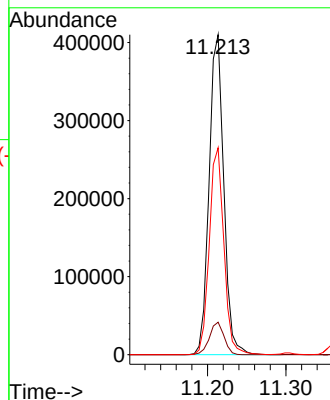
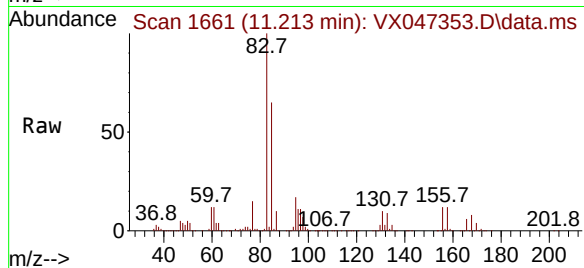
#75
1,1,2,2-Tetrachloroethane
Concen: 150.375 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 53165
Ion Ratio Lower Upper
83 100
131 10.1 5.0 15.0
85 64.4 31.7 95.1

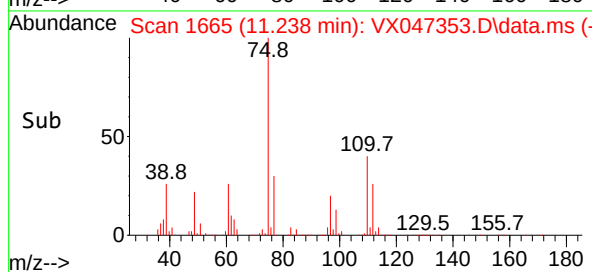
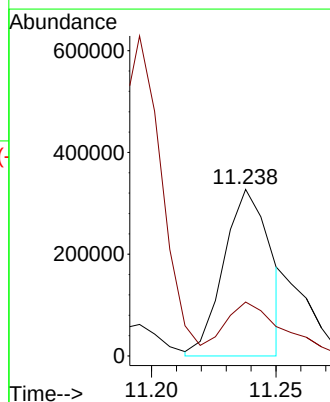
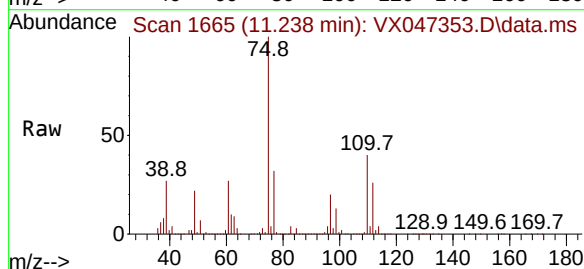
Manual Integrations
APPROVED

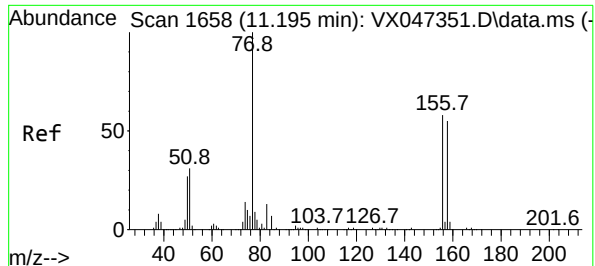
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#76
1,2,3-Trichloropropane
Concen: 150.704 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 75 Resp: 425332
Ion Ratio Lower Upper
75 100
77 41.1 19.4 58.2





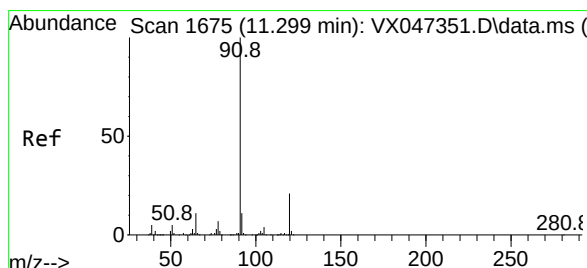
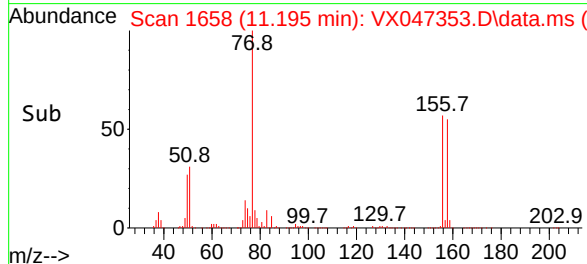
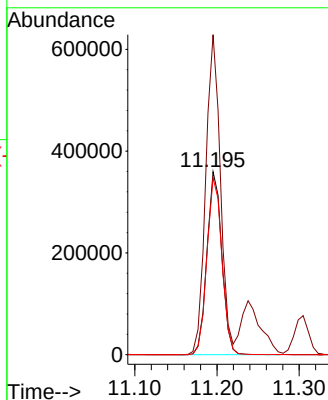
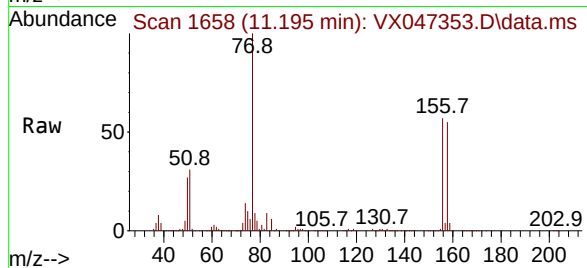
#77
Bromobenzene
Concen: 153.378 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 451000
Ion Ratio Lower Upper
156 100
77 172.9 86.3 258.9
158 97.4 48.0 144.2

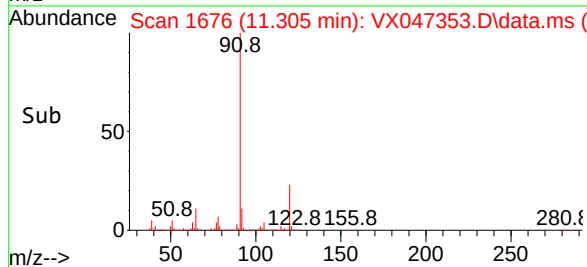
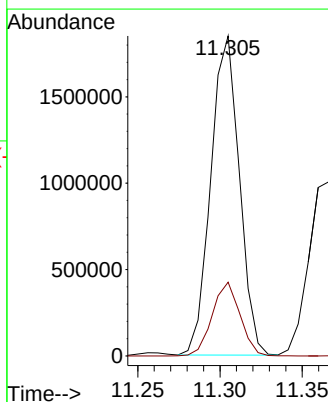
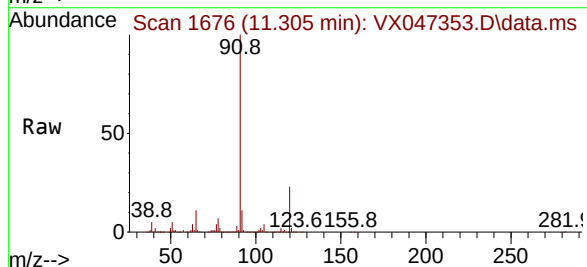
Manual Integrations
APPROVED

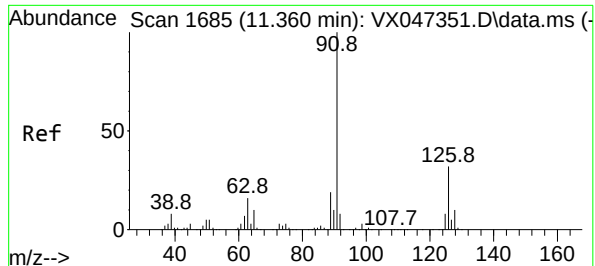
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#78
n-propylbenzene
Concen: 155.473 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 91 Resp: 2235938
Ion Ratio Lower Upper
91 100
120 22.5 11.0 33.0





#79

2-Chlorotoluene

Concen: 150.272 ug/l

RT: 11.366 min Scan# 1686

Delta R.T. 0.006 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 1306418

Ion Ratio Lower Upper

91 100

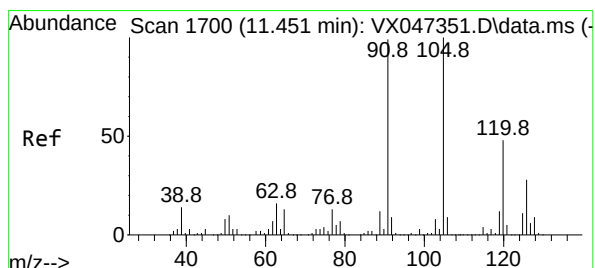
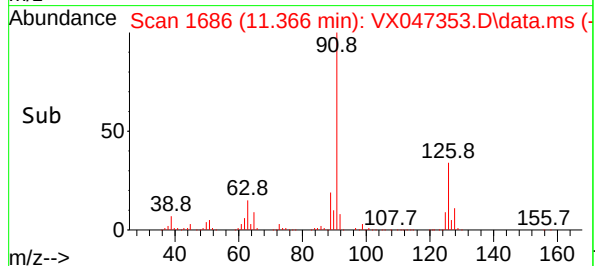
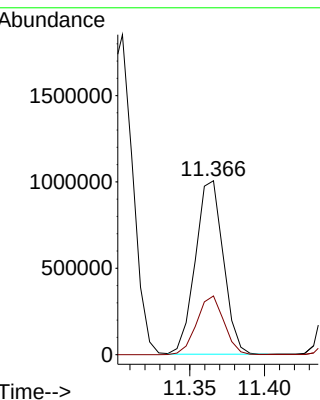
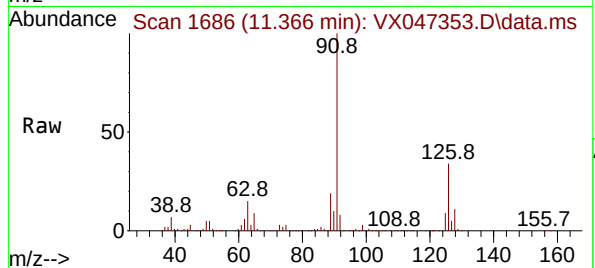
126 33.0 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 155.110 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX047353.D

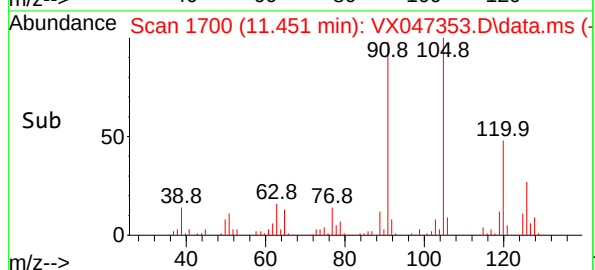
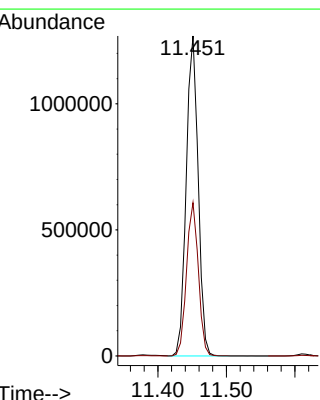
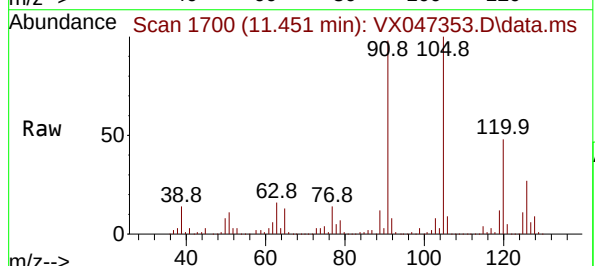
Acq: 15 Aug 2025 11:05

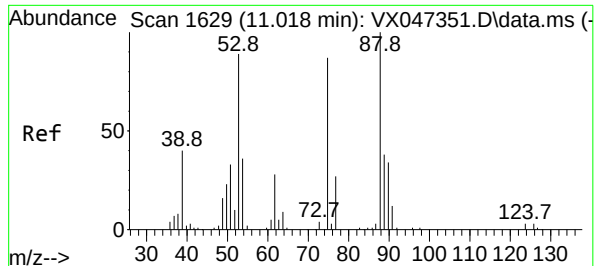
Tgt Ion:105 Resp: 1536791

Ion Ratio Lower Upper

105 100

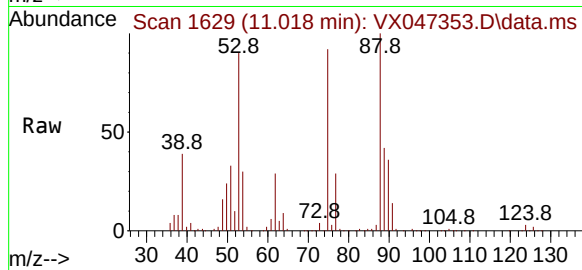
120 47.5 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 154.967 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

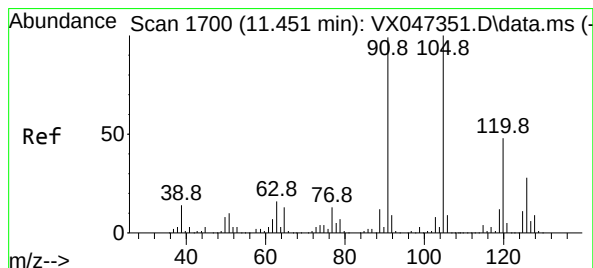
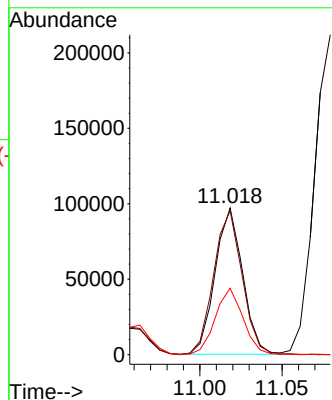
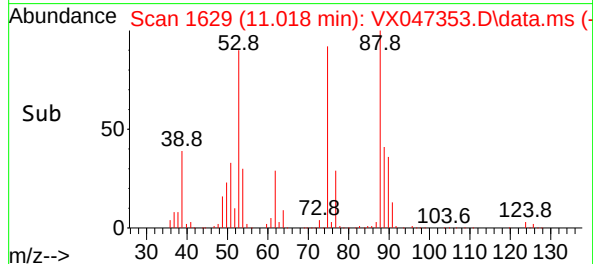
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



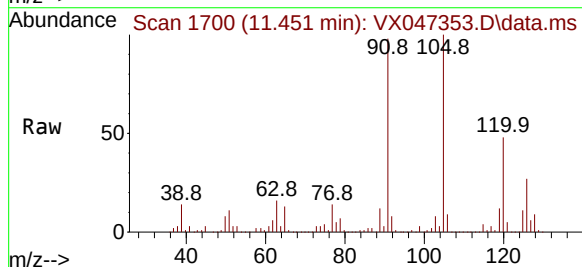
Tgt Ion: 75 Resp: 113338
Ion Ratio Lower Upper
75 100
53 101.8 85.2 127.8
89 45.9 36.7 55.1

Manual Integrations
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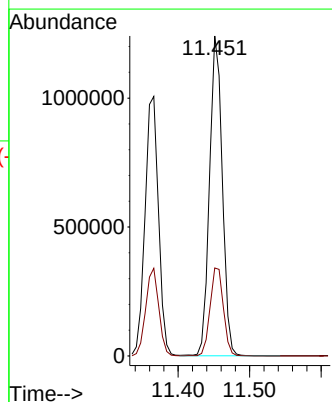
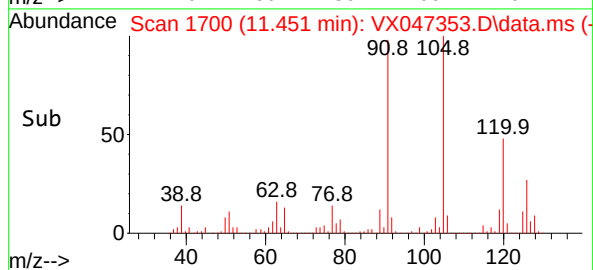
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

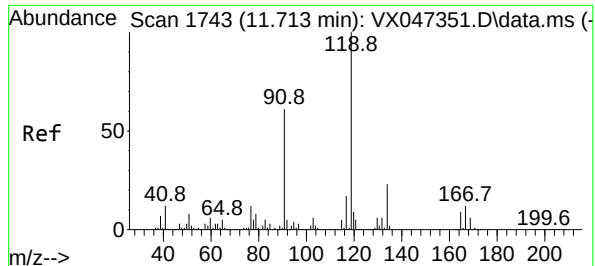


#82
4-Chlorotoluene
Concen: 150.376 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05



Tgt Ion: 91 Resp: 1541070
Ion Ratio Lower Upper
91 100
126 28.7 14.4 43.0





#83

tert-Butylbenzene

Concen: 156.062 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:119 Resp: 154262

Ion Ratio Lower Upper

119 100

91 59.8 29.1 87.4

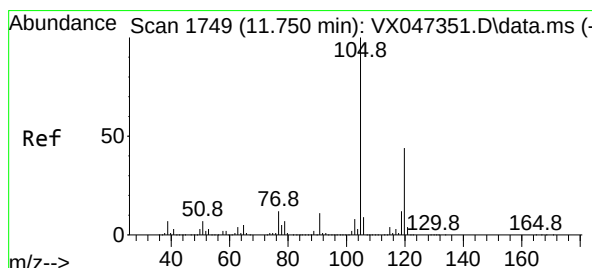
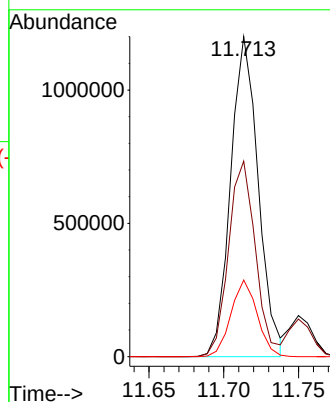
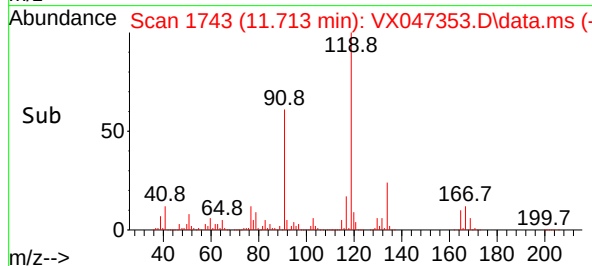
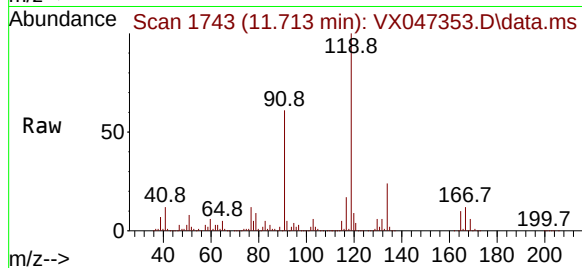
134 22.8 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 154.952 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047353.D

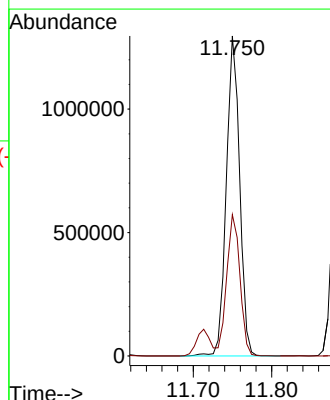
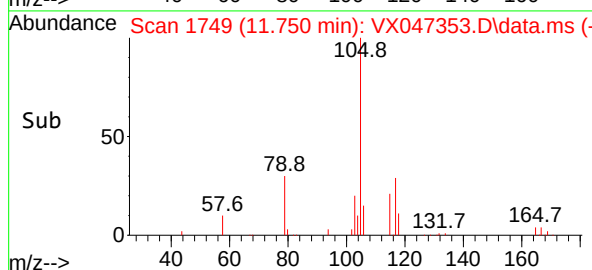
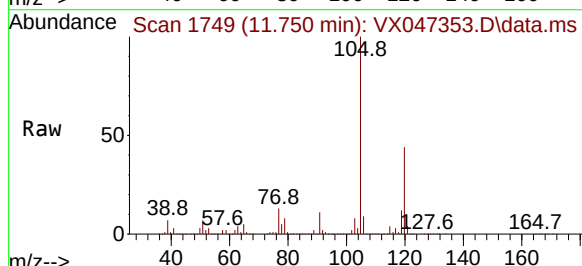
Acq: 15 Aug 2025 11:05

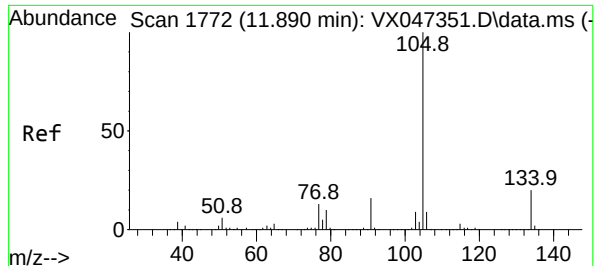
Tgt Ion:105 Resp: 1535261

Ion Ratio Lower Upper

105 100

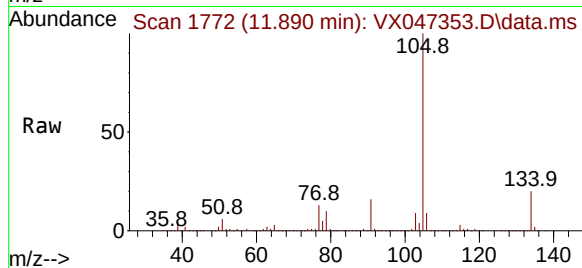
120 44.5 21.9 65.7





#85
sec-Butylbenzene
Concen: 156.078 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

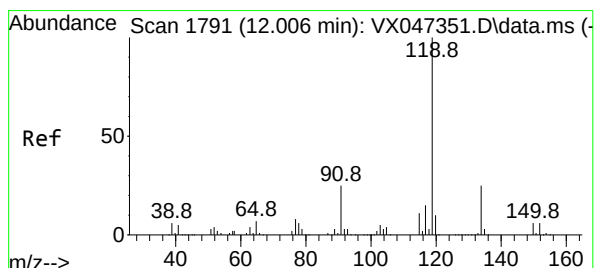
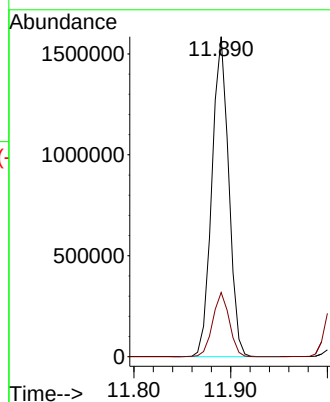
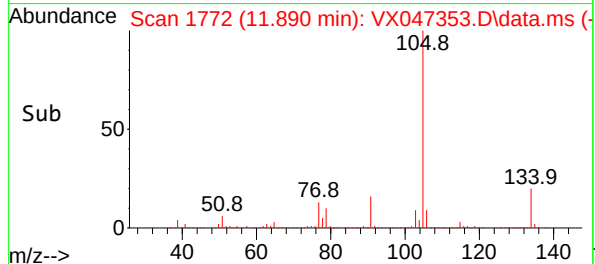
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



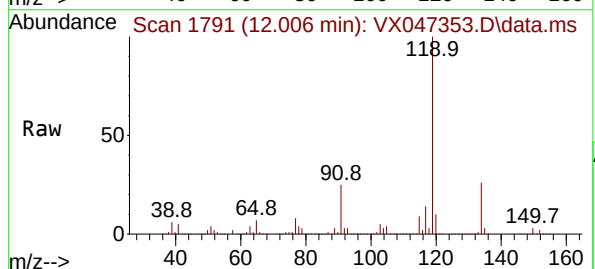
Tgt Ion:105 Resp: 1912224
Ion Ratio Lower Upper
105 100
134 19.8 9.8 29.5

Manual Integrations
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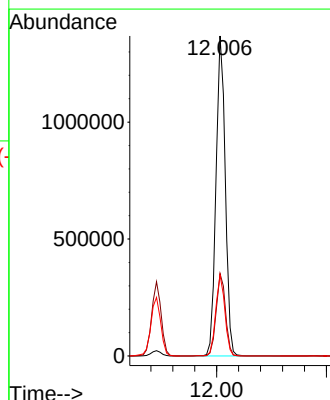
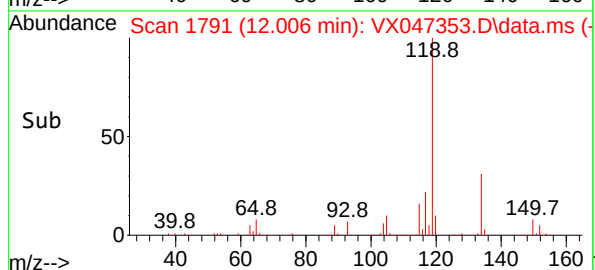
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

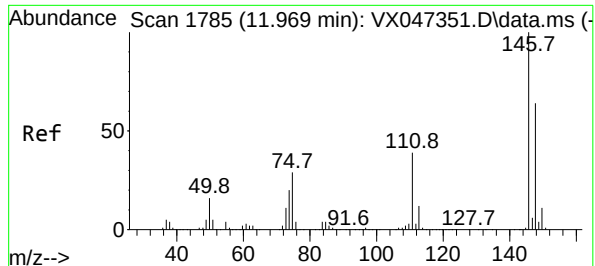


#86
p-Isopropyltoluene
Concen: 154.459 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05



Tgt Ion:119 Resp: 1601345
Ion Ratio Lower Upper
119 100
134 25.8 12.8 38.4
91 24.9 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 149.783 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:146 Resp: 841394

Ion Ratio Lower Upper

146 100

111 41.9 20.6 61.8

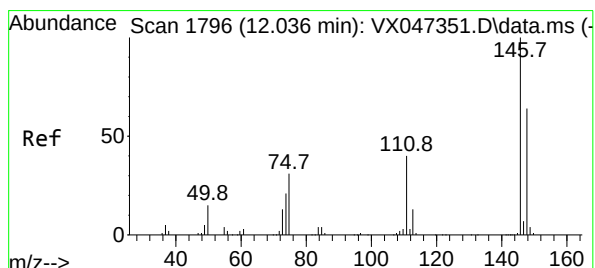
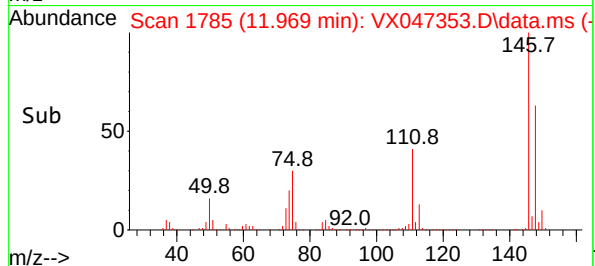
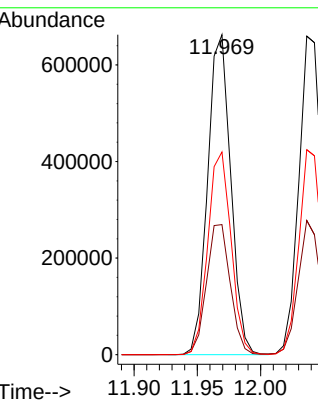
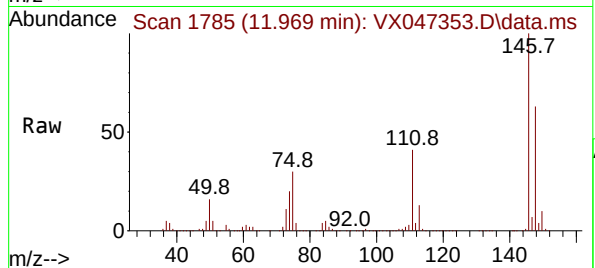
148 63.8 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#88

1,4-Dichlorobenzene

Concen: 144.939 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

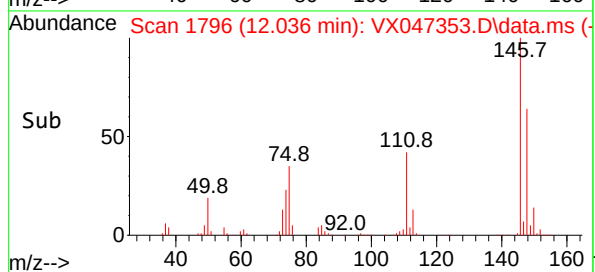
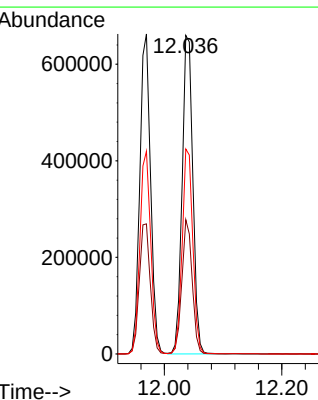
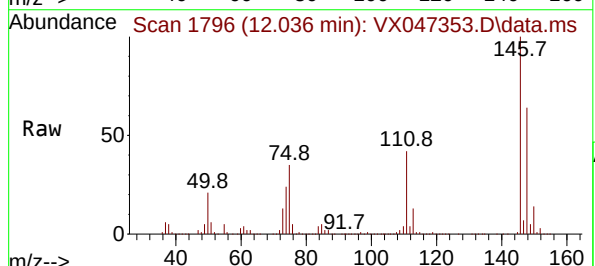
Tgt Ion:146 Resp: 837395

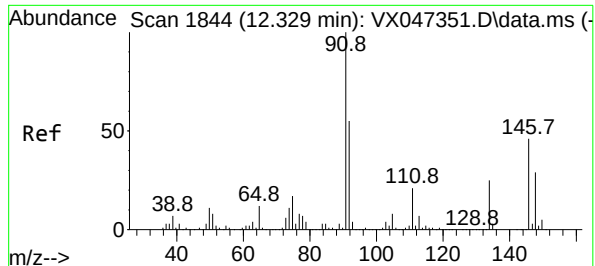
Ion Ratio Lower Upper

146 100

111 40.6 20.4 61.2

148 63.7 31.7 95.1





#89

n-Butylbenzene

Concen: 154.462 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 148947

Ion Ratio Lower Upper

91 100

92 54.7 27.2 81.5

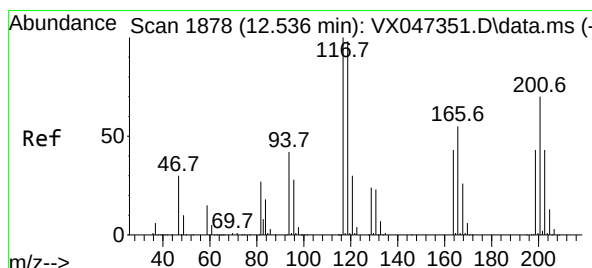
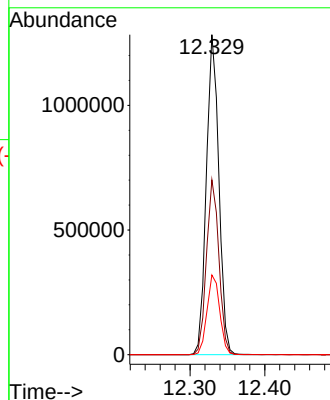
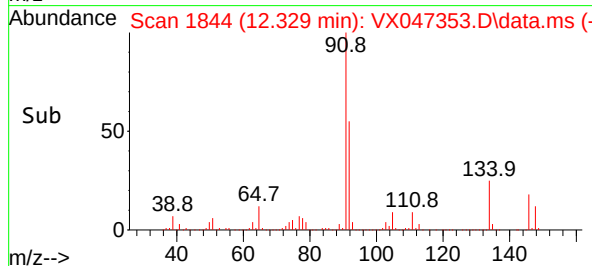
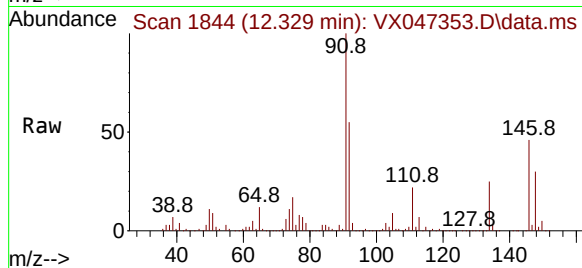
134 25.4 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#90

Hexachloroethane

Concen: 166.757 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047353.D

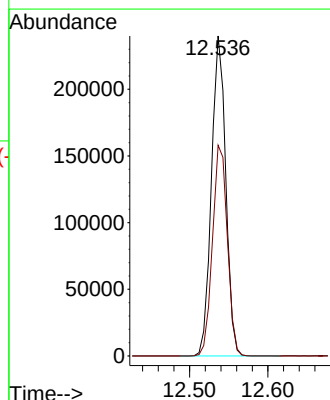
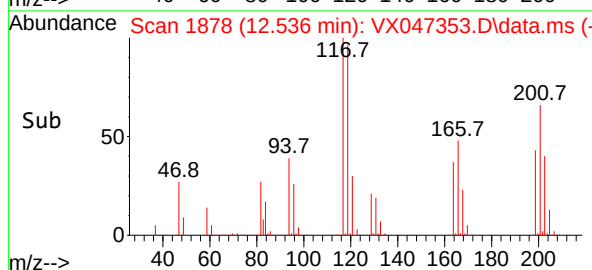
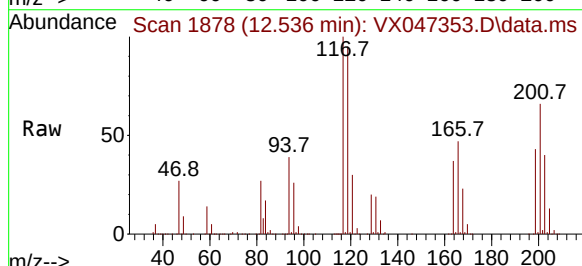
Acq: 15 Aug 2025 11:05

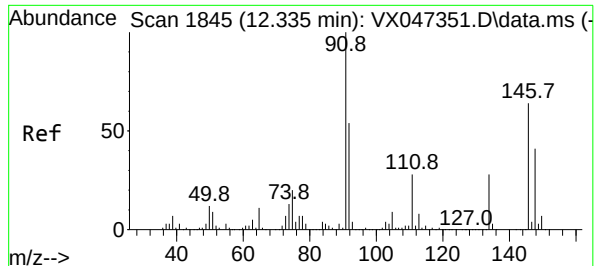
Tgt Ion:117 Resp: 303295

Ion Ratio Lower Upper

117 100

201 68.6 35.1 105.3





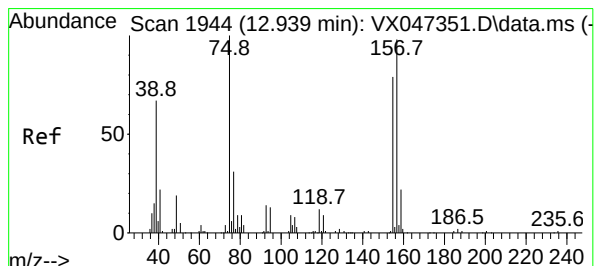
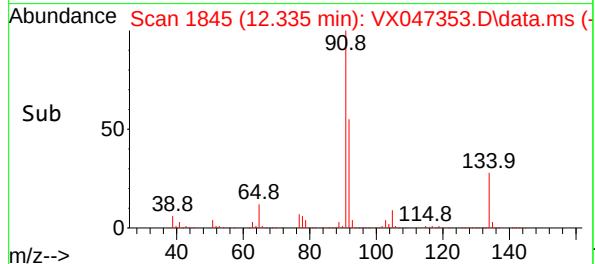
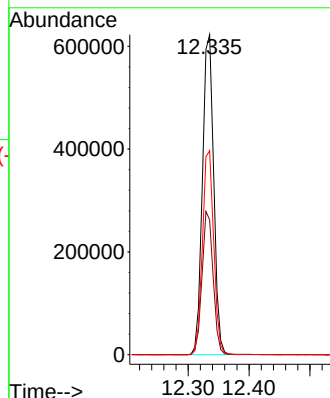
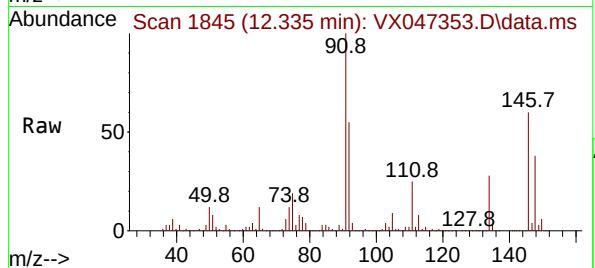
#91
1,2-Dichlorobenzene
Concen: 149.701 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 798192
Ion Ratio Lower Upper
146 100
111 44.0 22.1 66.1
148 64.0 31.9 95.5

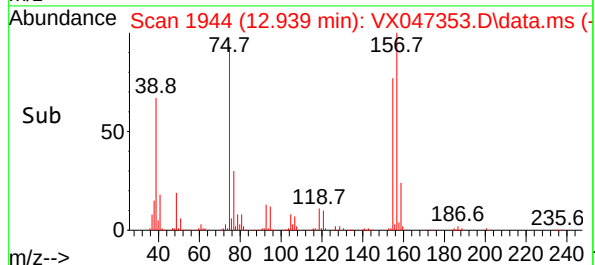
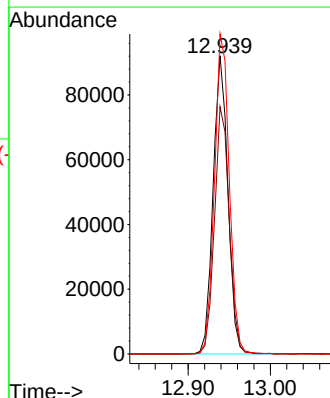
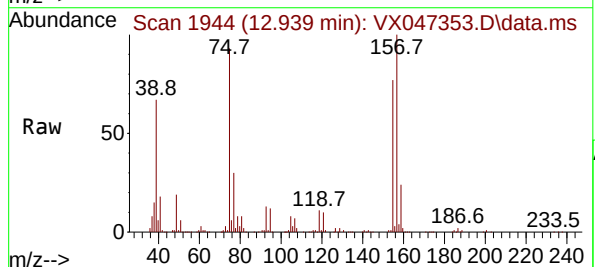
Manual Integrations
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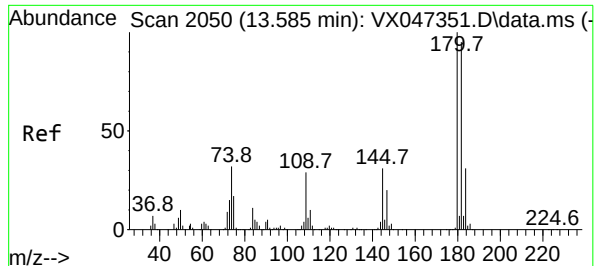
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 168.342 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

Tgt Ion: 75 Resp: 115101
Ion Ratio Lower Upper
75 100
155 82.7 41.3 123.7
157 107.8 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 155.453 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:180 Resp: 555658

Ion Ratio Lower Upper

180 100

182 96.1 48.1 144.4

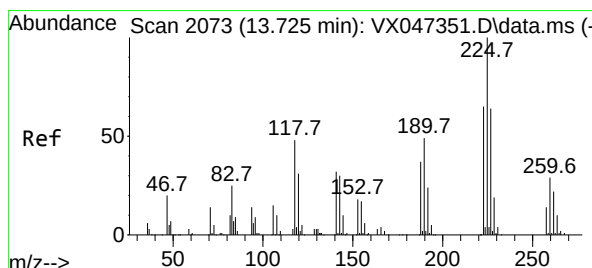
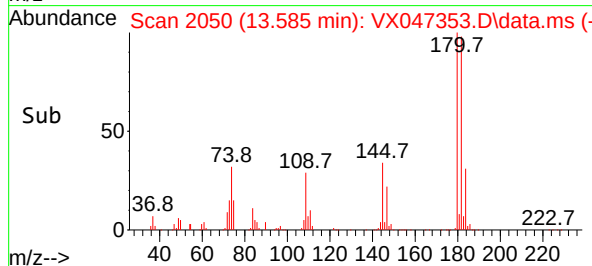
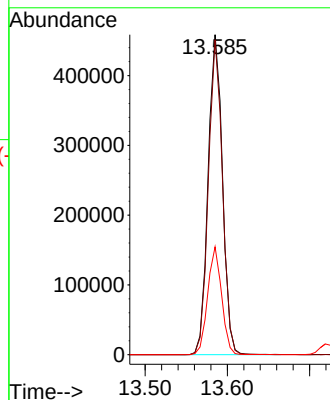
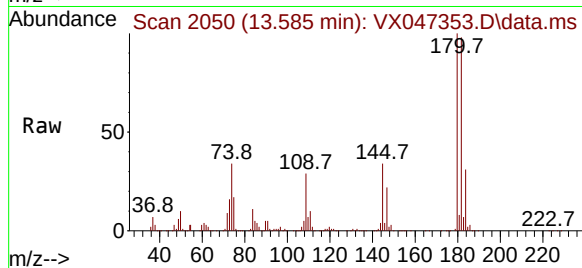
145 32.8 16.2 48.5

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#94

Hexachlorobutadiene

Concen: 139.013 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX047353.D

Acq: 15 Aug 2025 11:05

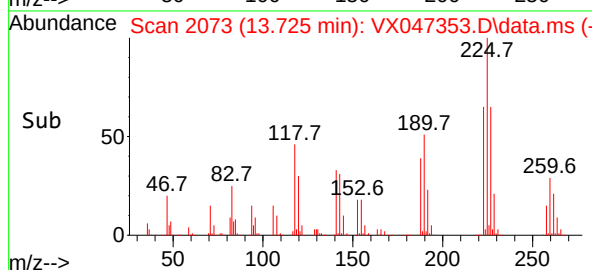
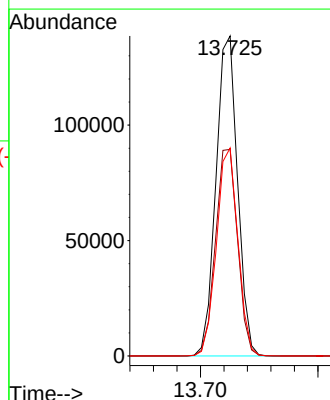
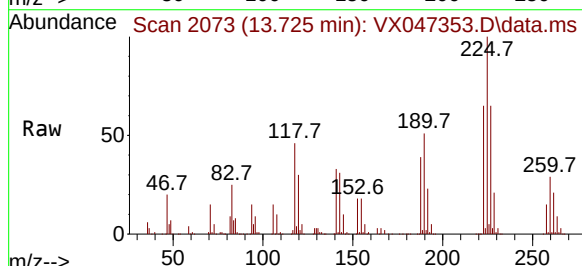
Tgt Ion:225 Resp: 176870

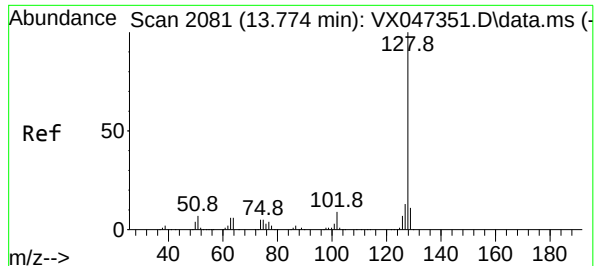
Ion Ratio Lower Upper

225 100

223 66.0 32.2 96.6

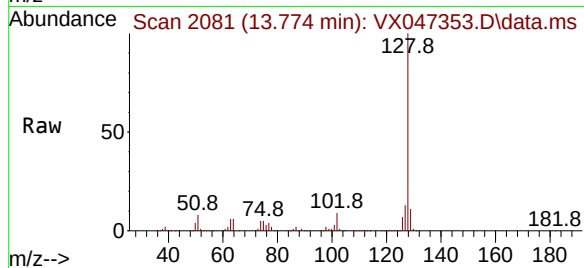
227 64.6 31.6 95.0





#95
Naphthalene
Concen: 167.959 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05

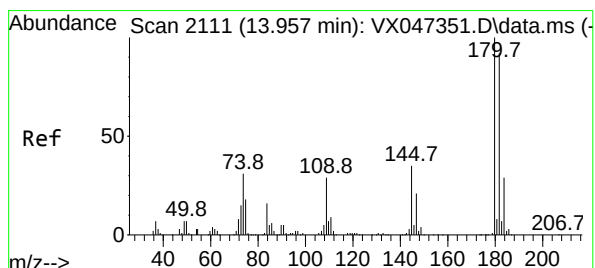
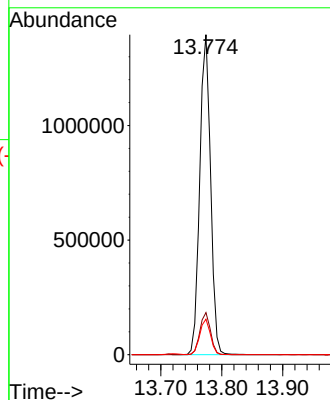
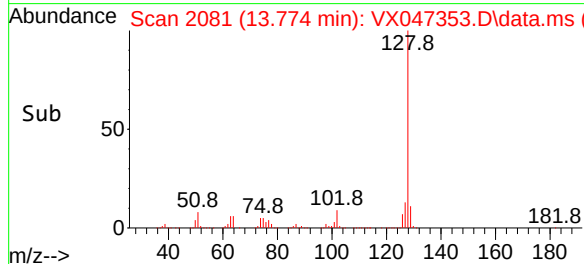
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



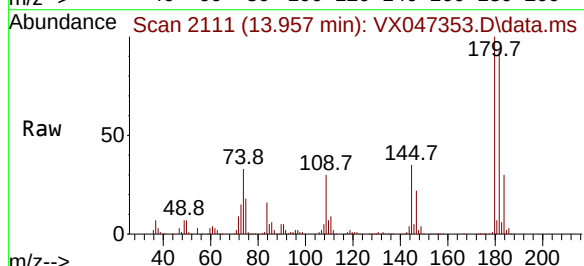
Tgt Ion:128 Resp: 171568
Ion Ratio Lower Upper
128 100
127 13.0 10.1 15.1
129 11.0 8.7 13.1

Manual Integrations
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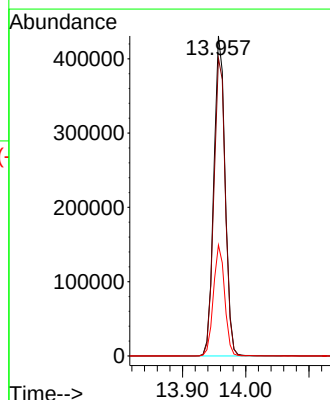
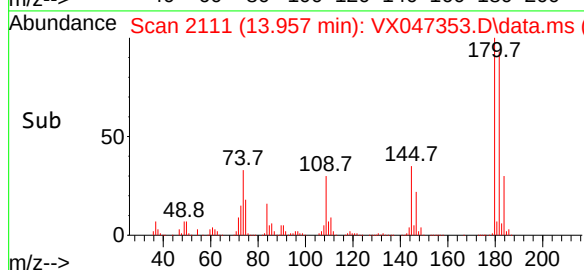
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 158.872 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX047353.D
Acq: 15 Aug 2025 11:05



Tgt Ion:180 Resp: 535287
Ion Ratio Lower Upper
180 100
182 94.5 48.0 144.2
145 34.4 17.4 52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047356.D
 Acq On : 15 Aug 2025 12:30
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Quant Time: Aug 18 02:56:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	286149	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	494689	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	456440	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	228745	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	78 - 117	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	92 - 112	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	83 - 123	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.184	85	3127	0.857	ug/l	94
3) Chloromethane	1.313	50	3143	0.958	ug/l	99
4) Vinyl Chloride	1.392	62	3606	0.876	ug/l #	68
6) Chloroethane	1.709	64	2950	1.171	ug/l	91
7) Trichlorofluoromethane	1.904	101	5369	0.881	ug/l	86
8) Diethyl Ether	2.148	74	1947	0.908	ug/l	77
9) 1,1,2-Trichlorotrifluo...	2.349	101	2830	0.801	ug/l #	90
12) 1,1-Dichloroethene	2.337	96	3176	0.882	ug/l #	84
14) Allyl chloride	2.684	41	5441m	0.869	ug/l	
15) Acrylonitrile	3.087	53	7106	4.221	ug/l	89
16) Acetone	2.392	43	7123	4.732	ug/l	91
17) Carbon Disulfide	2.532	76	11842	1.089	ug/l #	93
18) Methyl Acetate	2.721	43	3556	0.912	ug/l #	84
19) Methyl tert-butyl Ether	3.129	73	8892	0.811	ug/l	95
20) Methylene Chloride	2.812	84	3953	0.992	ug/l	88
21) trans-1,2-Dichloroethene	3.111	96	3552	0.929	ug/l #	87
22) Diisopropyl ether	3.782	45	9930	0.803	ug/l	96
23) Vinyl Acetate	3.751	43	40393	3.984	ug/l #	90
24) 1,1-Dichloroethane	3.629	63	6019	0.861	ug/l #	85
25) 2-Butanone	4.605	43	8214	4.166	ug/l #	87
26) 2,2-Dichloropropane	4.489	77	4442	0.842	ug/l	80
27) cis-1,2-Dichloroethene	4.513	96	3960	0.889	ug/l	88
28) Bromochloromethane	4.934	49	2750	0.945	ug/l #	89
29) Tetrahydrofuran	5.044	42	6273m	4.923	ug/l	
30) Chloroform	5.117	83	6246	0.875	ug/l	86
32) 1,1,1-Trichloroethane	5.415	97	4939	0.804	ug/l #	49
36) 1,1-Dichloropropene	5.708	75	4692	0.926	ug/l	94
37) Ethyl Acetate	4.757	43	4864m	0.924	ug/l	
38) Carbon Tetrachloride	5.696	117	5100	0.921	ug/l	92
39) Methylcyclohexane	7.391	83	5884	0.931	ug/l	88
40) Benzene	6.056	78	12977	0.855	ug/l	92
41) Methacrylonitrile	4.958	41	1736m	0.782	ug/l	
42) 1,2-Dichloroethane	6.123	62	4784	0.890	ug/l	88
43) Isopropyl Acetate	6.366	43	6382	0.844	ug/l #	81
44) Trichloroethene	7.141	130	3329	0.857	ug/l	87
45) 1,2-Dichloropropane	7.446	63	3532	0.929	ug/l #	88

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047356.D
 Acq On : 15 Aug 2025 12:30
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 02:56:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 02:51:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	2453	0.889	ug/l	94
47) Bromodichloromethane	7.830	83	5078	0.888	ug/l #	98
48) Methyl methacrylate	7.720	41	3480m	0.887	ug/l	
49) 1,4-Dioxane	7.708	88	559m	15.003	ug/l	
51) 4-Methyl-2-Pentanone	8.586	43	17109	3.933	ug/l	96
52) Toluene	8.726	92	7930	0.846	ug/l	99
53) t-1,3-Dichloropropene	8.988	75	3671	0.735	ug/l	91
54) cis-1,3-Dichloropropene	8.378	75	4466	0.790	ug/l	94
55) 1,1,2-Trichloroethane	9.159	97	3095	0.870	ug/l	97
56) Ethyl methacrylate	9.128	69	4003	0.763	ug/l	94
57) 1,3-Dichloropropane	9.311	76	5471	0.902	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.256	63	5074	10.313	ug/l	95
59) 2-Hexanone	9.439	43	11811	3.926	ug/l	92
60) Dibromochloromethane	9.524	129	3776	0.893	ug/l	87
61) 1,2-Dibromoethane	9.616	107	3325	0.906	ug/l	94
64) Tetrachloroethene	9.274	164	2888	0.875	ug/l	94
65) Chlorobenzene	10.079	112	9799	0.903	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.165	131	3146	0.858	ug/l #	65
67) Ethyl Benzene	10.195	91	15680	0.840	ug/l	90
68) m/p-Xylenes	10.305	106	11714	1.683	ug/l	98
69) o-Xylene	10.640	106	5943	0.887	ug/l	93
70) Styrene	10.664	104	8294	0.733	ug/l	91
71) Bromoform	10.805	173	2201	0.799	ug/l #	94
73) Isopropylbenzene	10.963	105	14688	0.821	ug/l	94
74) N-amyl acetate	10.853	43	4792	0.705	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	11.213	83	4778	0.909	ug/l	97
76) 1,2,3-Trichloropropane	11.244	75	3744m	0.892	ug/l	
77) Bromobenzene	11.201	156	3648	0.835	ug/l	92
78) n-propylbenzene	11.305	91	17866	0.836	ug/l	100
79) 2-Chlorotoluene	11.366	91	11644	0.901	ug/l	93
80) 1,3,5-Trimethylbenzene	11.451	105	12427	0.844	ug/l	99
82) 4-Chlorotoluene	11.457	91	13922	0.914	ug/l	97
83) tert-Butylbenzene	11.713	119	12162	0.828	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	11509	0.781	ug/l	99
85) sec-Butylbenzene	11.890	105	14973	0.822	ug/l	97
86) p-Isopropyltoluene	12.012	119	13546	0.879	ug/l	95
87) 1,3-Dichlorobenzene	11.975	146	7821	0.937	ug/l	97
88) 1,4-Dichlorobenzene	12.042	146	8856m	1.031	ug/l	
89) n-Butylbenzene	12.335	91	12883	0.899	ug/l	97
90) Hexachloroethane	12.536	117	2421	0.895	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	7461	0.941	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	876	0.862	ug/l	96
93) 1,2,4-Trichlorobenzene	13.591	180	5232	0.985	ug/l	99
94) Hexachlorobutadiene	13.725	225	2573	1.360	ug/l	95
95) Naphthalene	13.780	128	12231	0.805	ug/l	97
96) 1,2,3-Trichlorobenzene	13.957	180	4918	0.982	ug/l	99

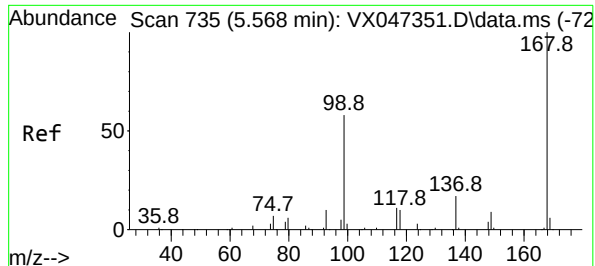
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025





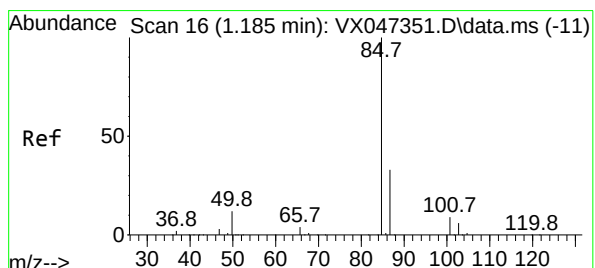
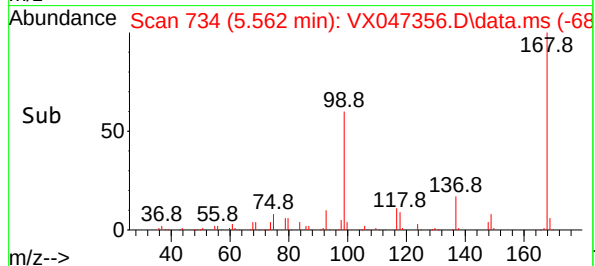
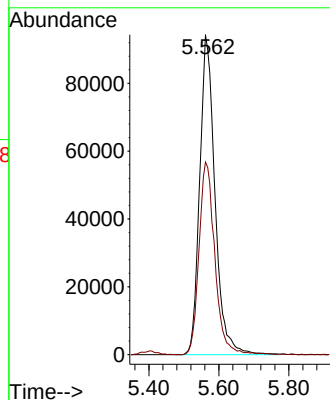
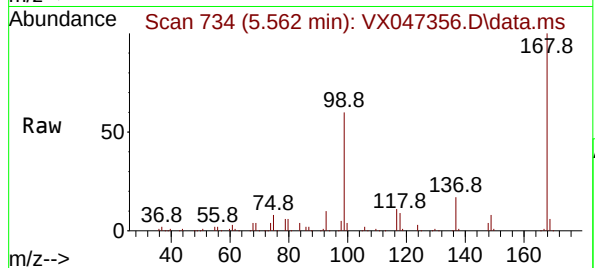
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 286149
Ion Ratio Lower Upper
168 100
99 60.2 47.9 71.9

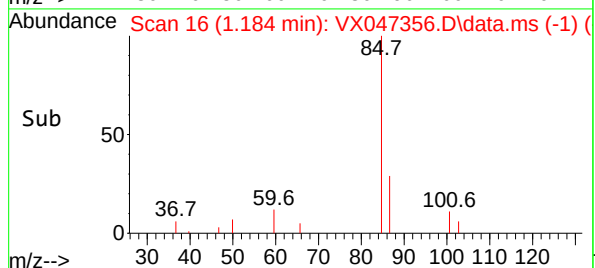
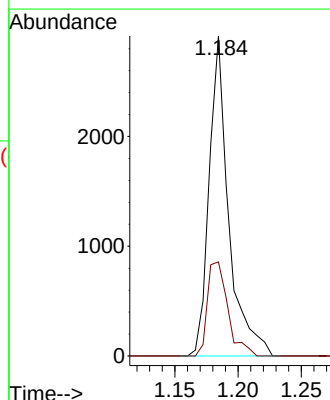
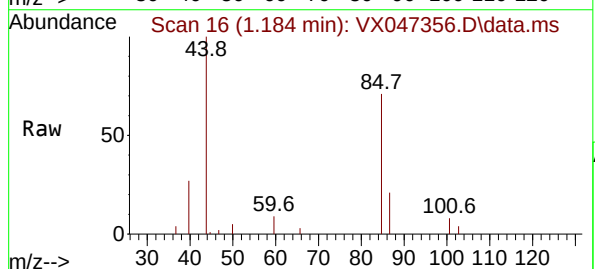
Manual Integrations
APPROVED

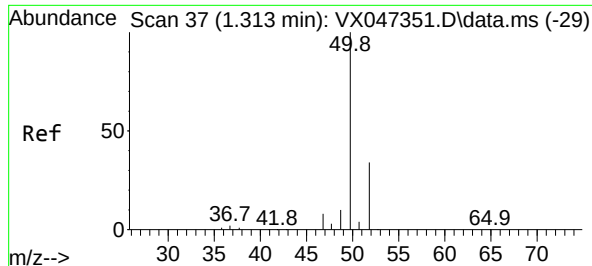
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#2
Dichlorodifluoromethane
Concen: 0.857 ug/l
RT: 1.184 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 85 Resp: 3127
Ion Ratio Lower Upper
85 100
87 29.4 16.4 49.1





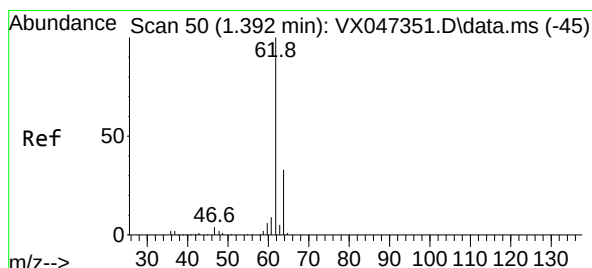
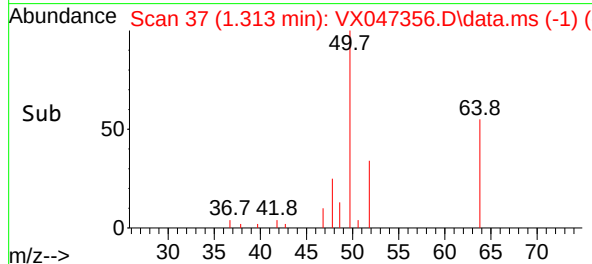
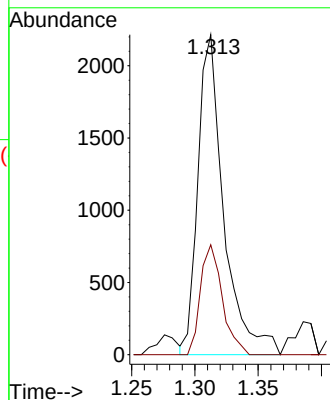
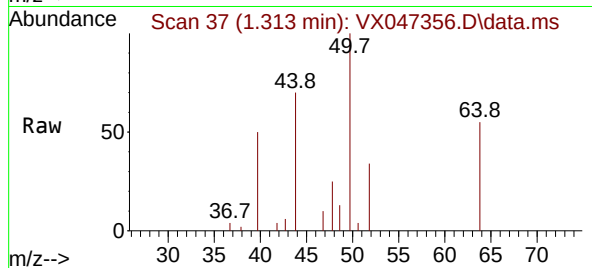
#3
Chloromethane
Concen: 0.958 ug/l
RT: 1.313 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 50 Resp: 314
Ion Ratio Lower Upper
50 100
52 32.9 27.0 40.4

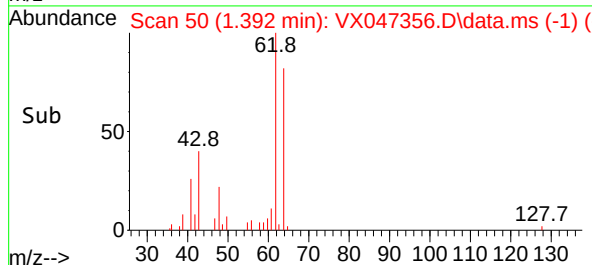
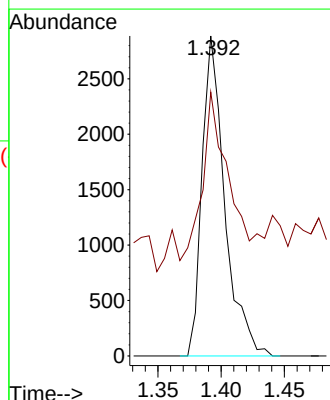
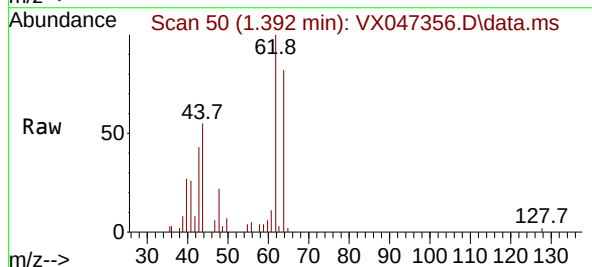
Manual Integrations
APPROVED

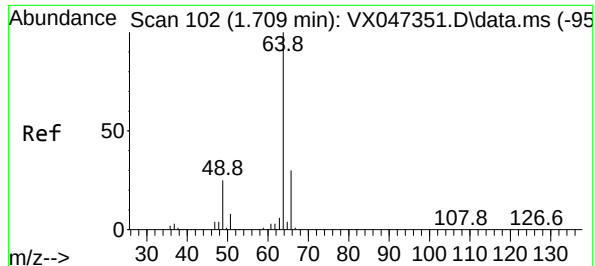
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#4
Vinyl Chloride
Concen: 0.876 ug/l
RT: 1.392 min Scan# 50
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 62 Resp: 3606
Ion Ratio Lower Upper
62 100
64 51.3 26.5 39.7#





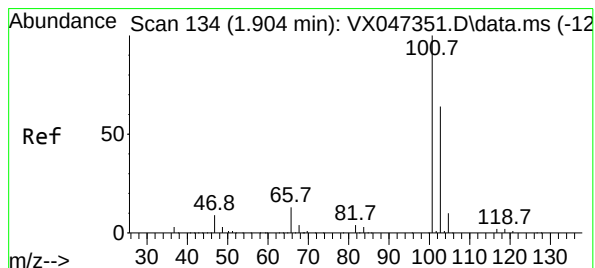
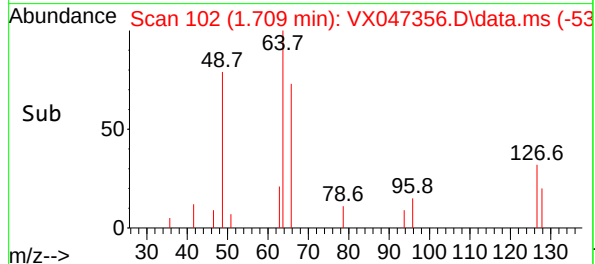
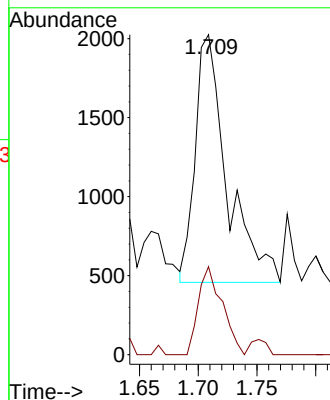
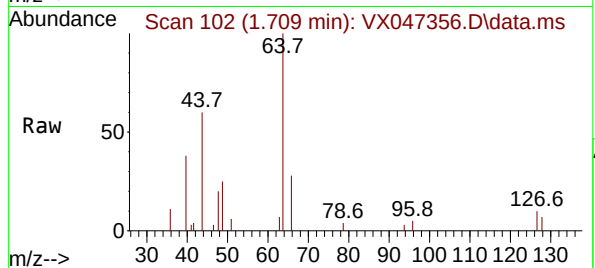
#6
Chloroethane
Concen: 1.171 ug/l
RT: 1.709 min Scan# 102
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 2950
Ion Ratio Lower Upper
64 100
66 35.5 24.4 36.6

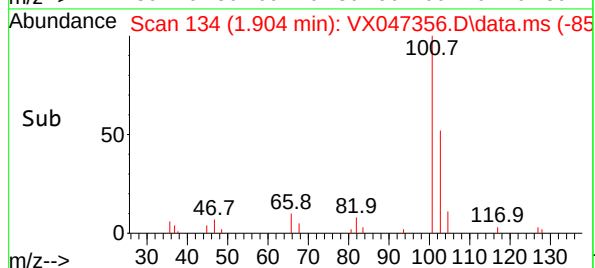
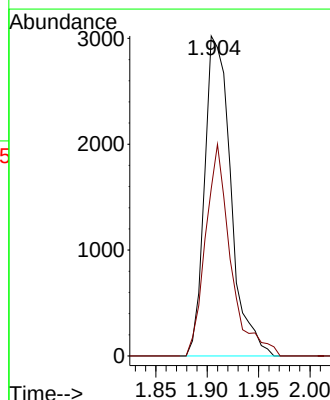
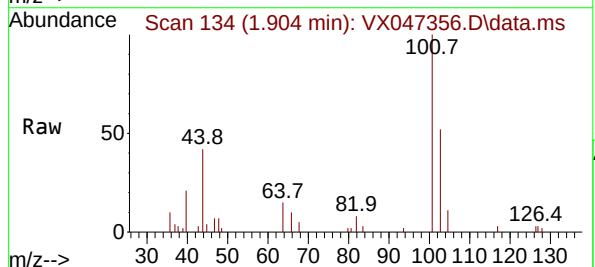
Manual Integrations
APPROVED

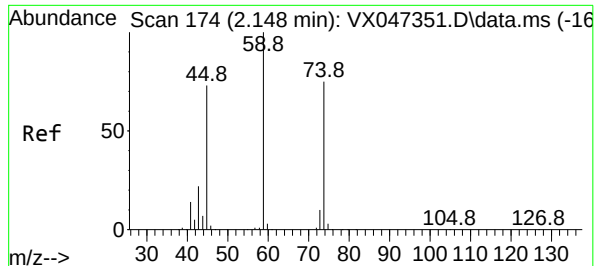
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#7
Trichlorofluoromethane
Concen: 0.881 ug/l
RT: 1.904 min Scan# 134
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:101 Resp: 5369
Ion Ratio Lower Upper
101 100
103 52.3 50.9 76.3





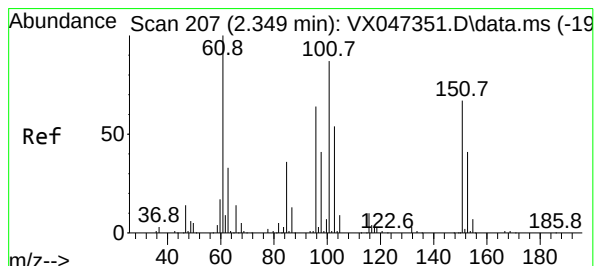
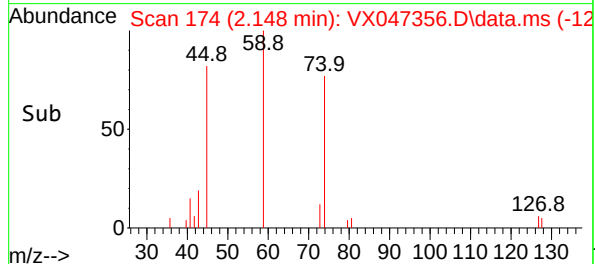
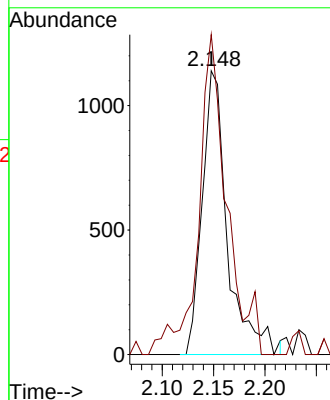
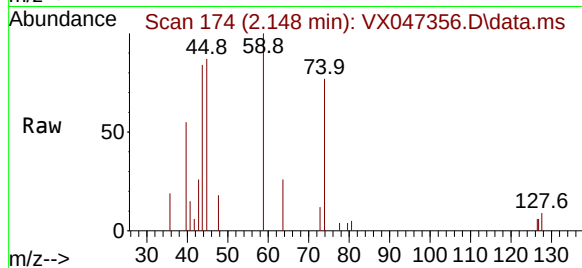
#8
Diethyl Ether
Concen: 0.908 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 74 Resp: 194
Ion Ratio Lower Upper
74 100
45 125.6 51.3 154.0

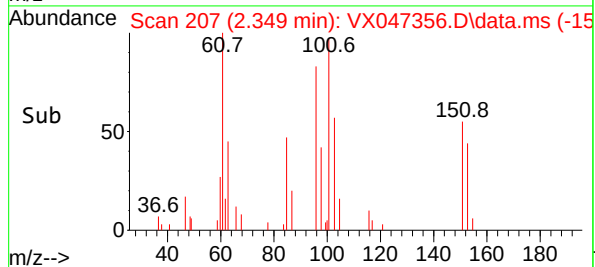
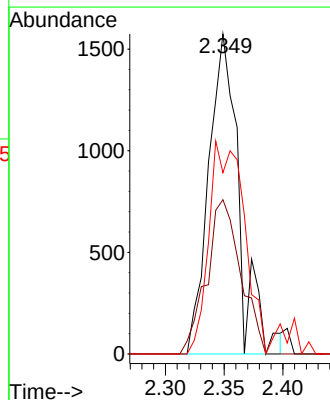
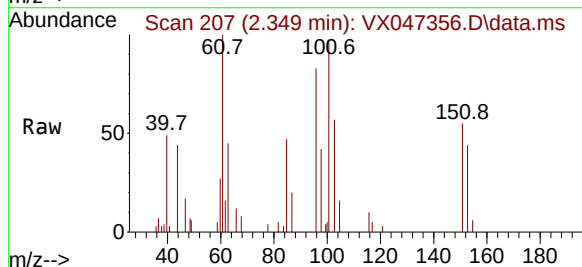
Manual Integrations
APPROVED

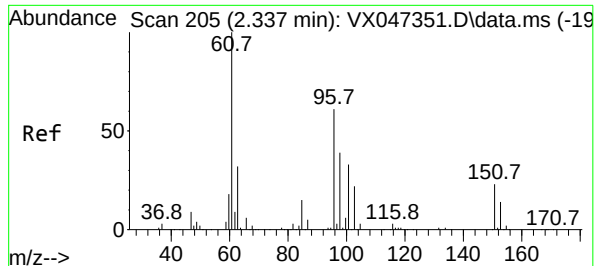
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.801 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:101 Resp: 2830
Ion Ratio Lower Upper
101 100
85 54.2 34.3 51.5#
151 78.2 59.2 88.8





#12

1,1-Dichloroethene

Concen: 0.882 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

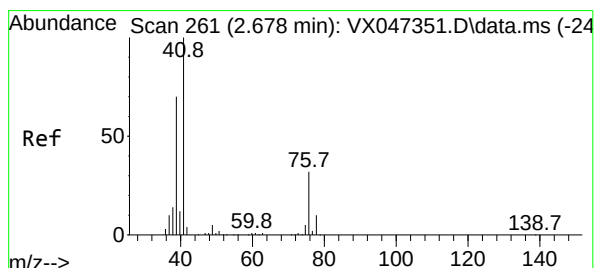
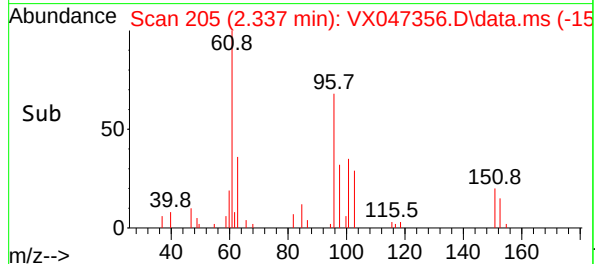
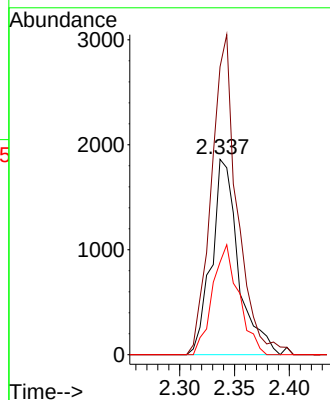
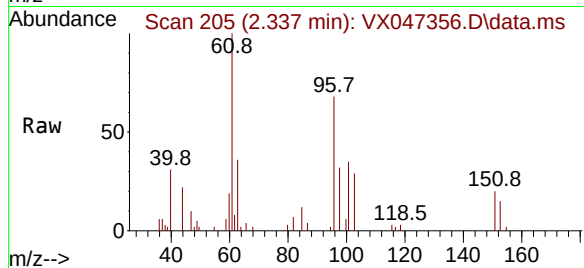
Tgt Ion:	96	Resp:	3170
Ion	Ratio	Lower	Upper
96	100		
61	147.3	132.2	198.2
98	47.3	51.2	76.8

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#14

Allyl chloride

Concen: 0.869 ug/l m

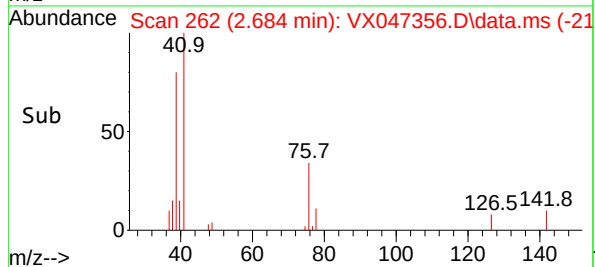
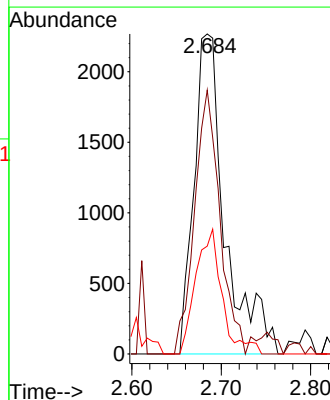
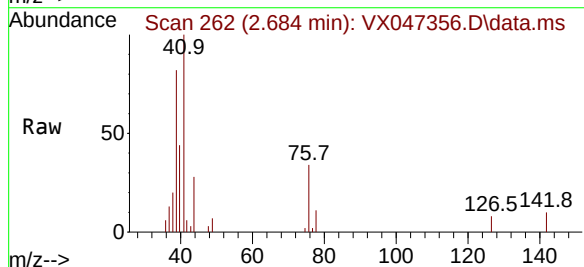
RT: 2.684 min Scan# 262

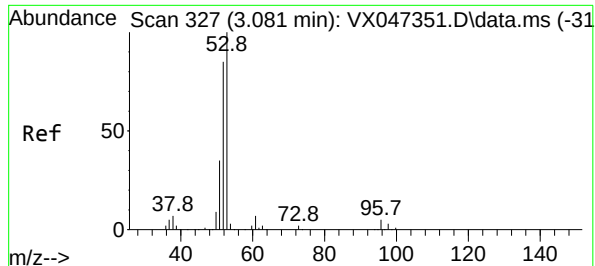
Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	41	Resp:	5441
Ion	Ratio	Lower	Upper
41	100		
39	67.5	54.6	81.8
76	33.1	27.6	41.4





#15

Acrylonitrile

Concen: 4.221 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

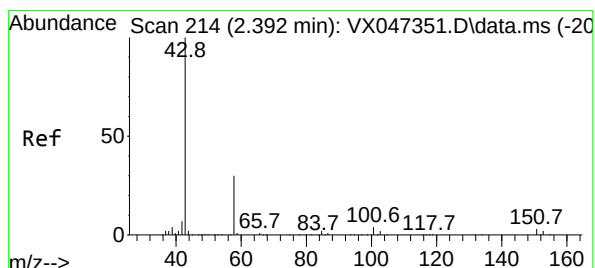
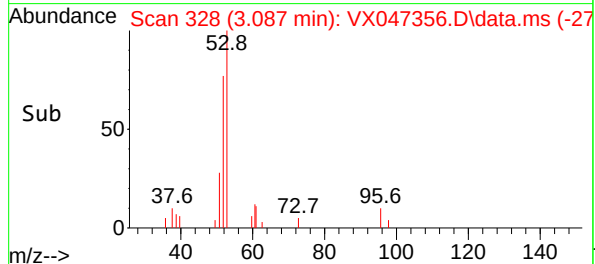
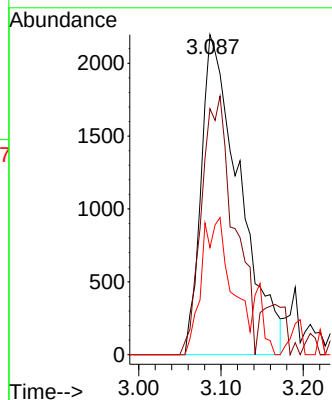
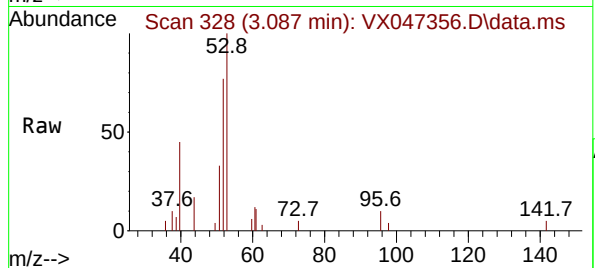
VSTDICC001

Tgt Ion:	53	Resp:	7100
Ion	Ratio	Lower	Upper
53	100		
52	68.4	65.8	98.6
51	34.0	28.2	42.2

Manual Integrations
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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#16

Acetone

Concen: 4.732 ug/l

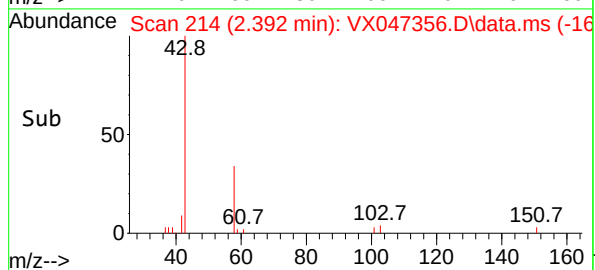
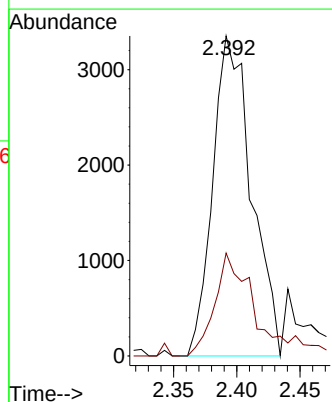
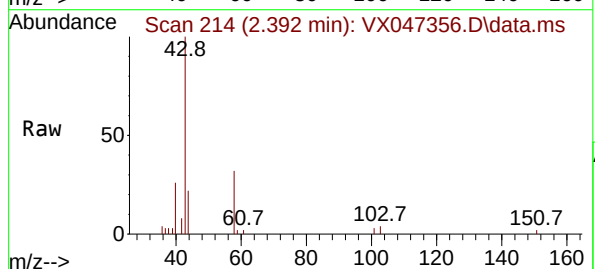
RT: 2.392 min Scan# 214

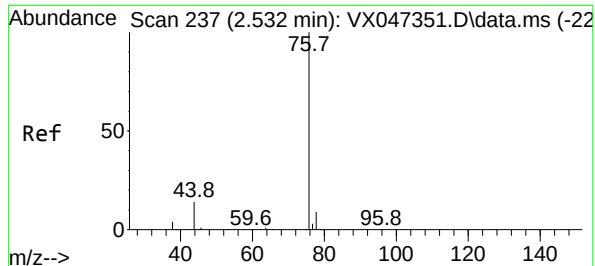
Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	43	Resp:	7123
Ion	Ratio	Lower	Upper
43	100		
58	26.3	24.8	37.2





#17

Carbon Disulfide

Concen: 1.089 ug/l

RT: 2.532 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 1184

Ion Ratio Lower Upper

76 100

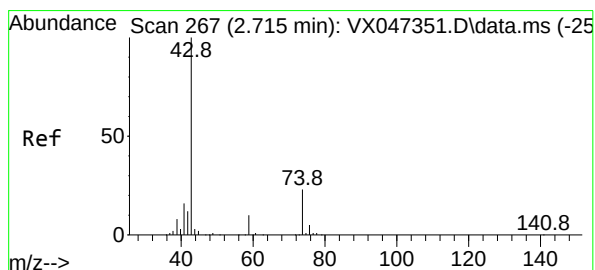
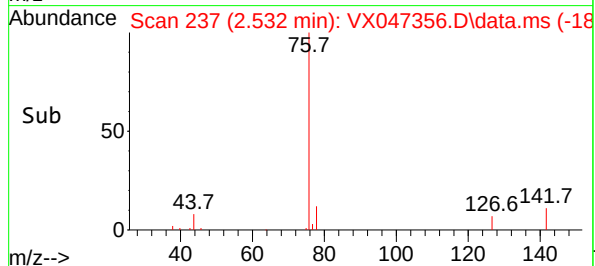
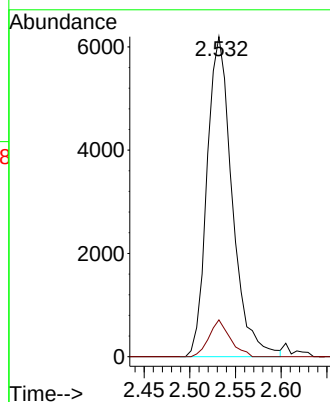
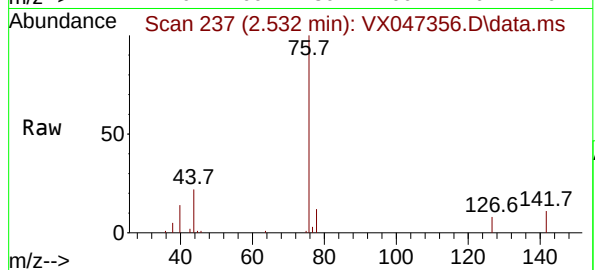
78 11.5 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#18

Methyl Acetate

Concen: 0.912 ug/l

RT: 2.721 min Scan# 268

Delta R.T. 0.006 min

Lab File: VX047356.D

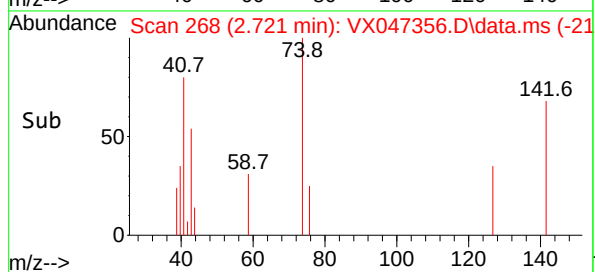
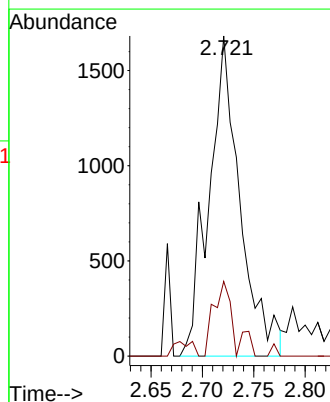
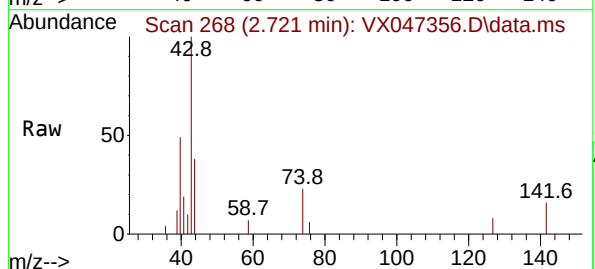
Acq: 15 Aug 2025 12:30

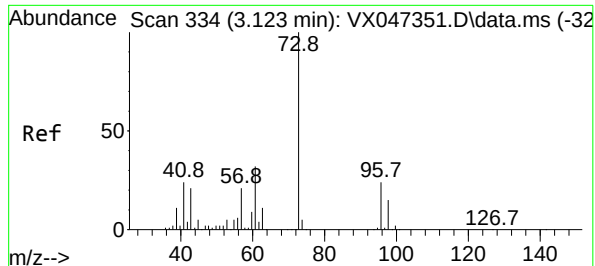
Tgt Ion: 43 Resp: 3556

Ion Ratio Lower Upper

43 100

74 15.0 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 0.811 ug/l

RT: 3.129 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 73 Resp: 8892

Ion Ratio Lower Upper

73 100

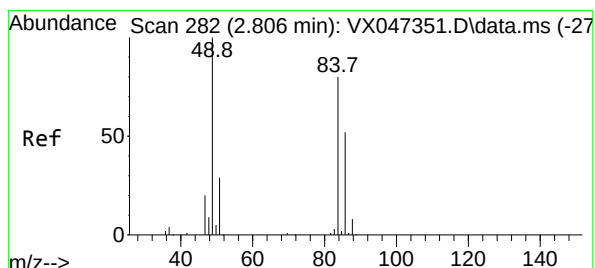
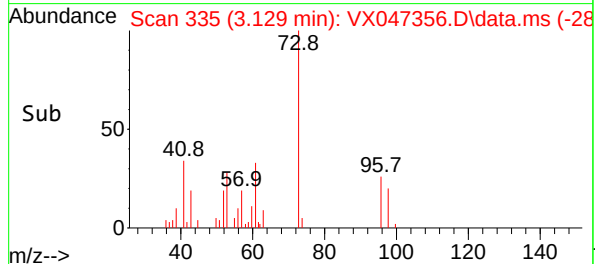
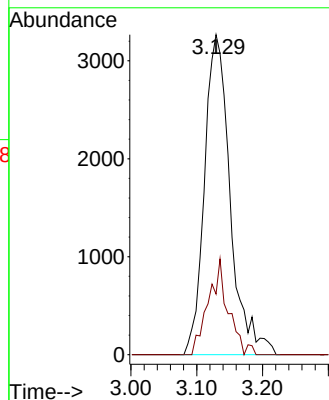
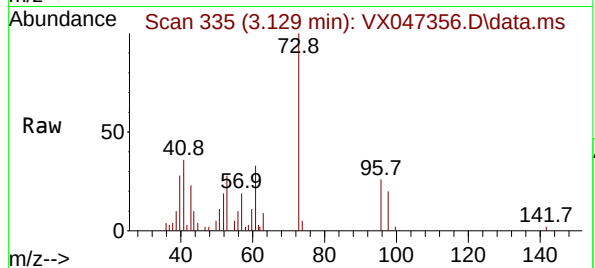
57 18.9 17.0 25.6

Manual Integrations

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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#20

Methylene Chloride

Concen: 0.992 ug/l

RT: 2.812 min Scan# 283

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion: 84 Resp: 3953

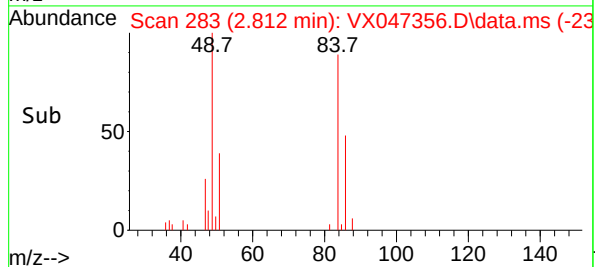
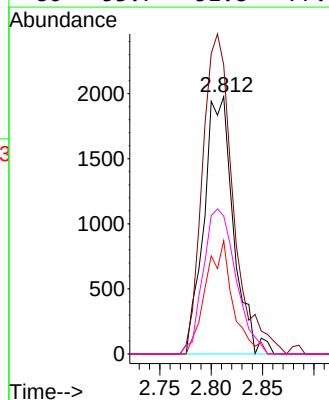
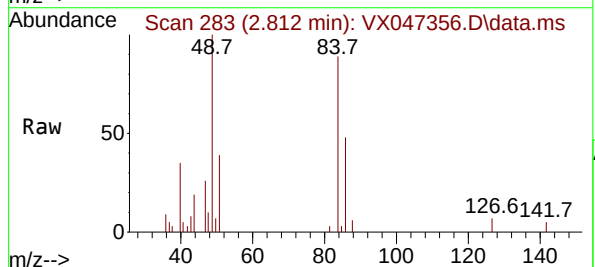
Ion Ratio Lower Upper

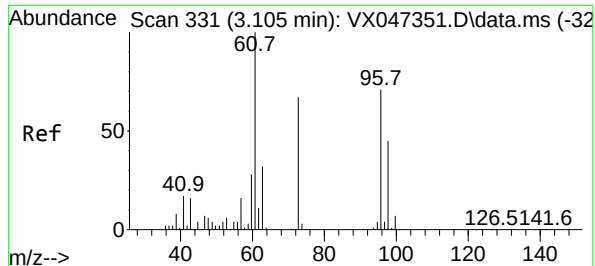
84 100

49 112.3 100.1 150.1

51 44.0 29.5 44.3

86 53.7 51.8 77.8





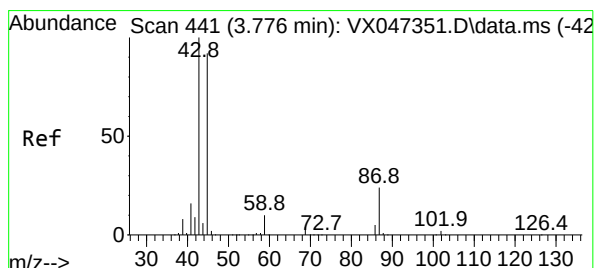
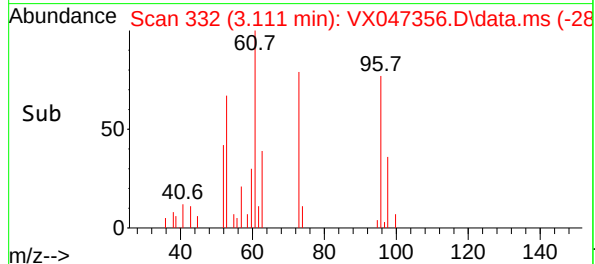
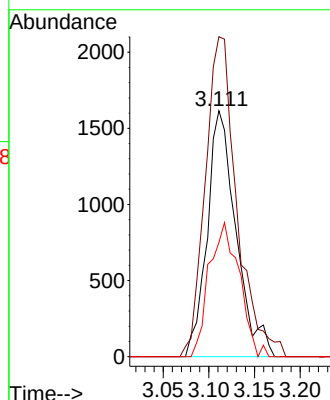
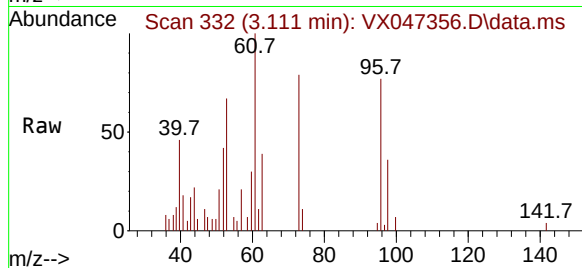
#21
trans-1,2-Dichloroethene
Concen: 0.929 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 355
Ion Ratio Lower Upper
96 100
61 130.2 112.6 169.0
98 46.4 50.9 76.3

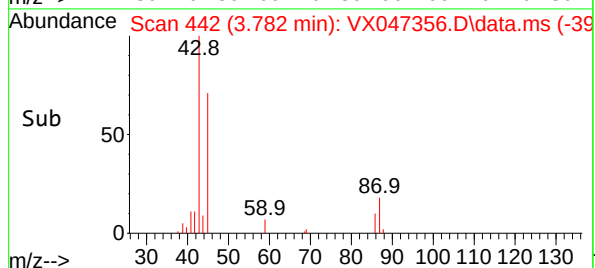
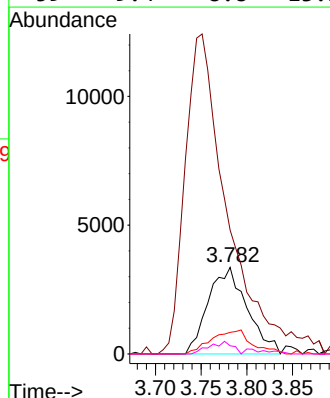
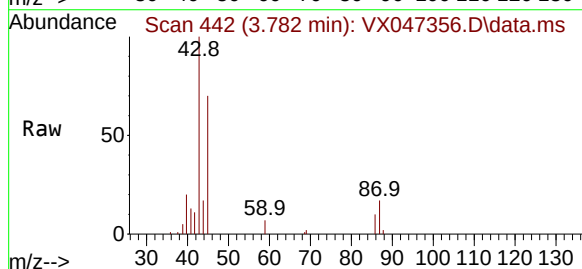
Manual Integrations
APPROVED

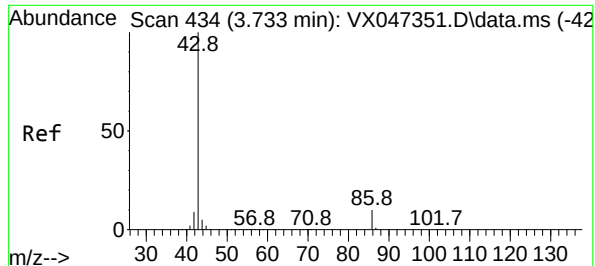
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#22
Diisopropyl ether
Concen: 0.803 ug/l
RT: 3.782 min Scan# 442
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 45 Resp: 9930
Ion Ratio Lower Upper
45 100
43 113.1 86.8 130.2
87 24.9 20.4 30.6
59 9.4 8.8 13.2





#23

Vinyl Acetate

Concen: 3.984 ug/l

RT: 3.751 min Scan# 41

Delta R.T. 0.018 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 4039

Ion Ratio Lower Upper

43 100

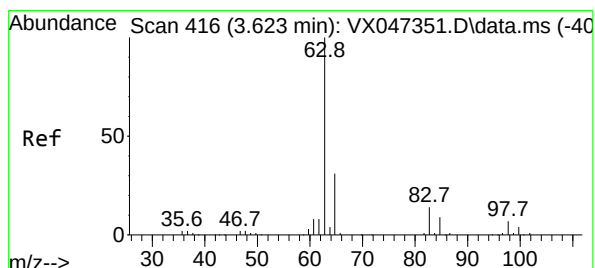
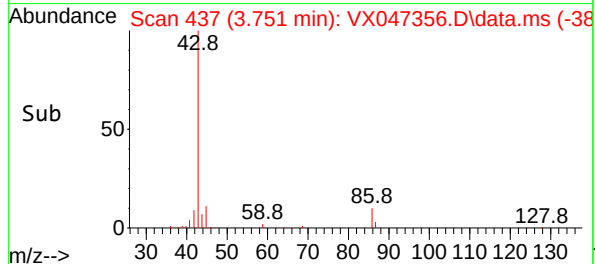
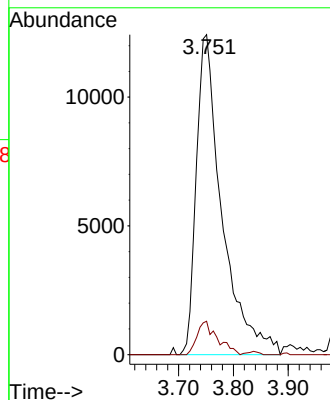
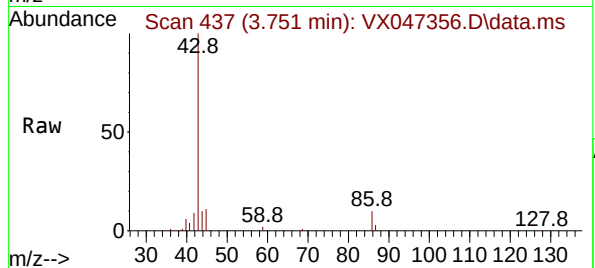
86 13.7 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#24

1,1-Dichloroethane

Concen: 0.861 ug/l

RT: 3.629 min Scan# 417

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

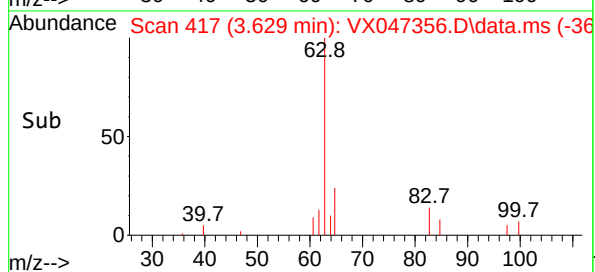
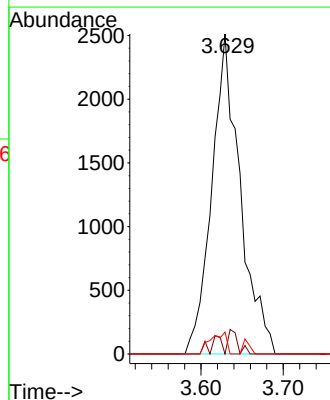
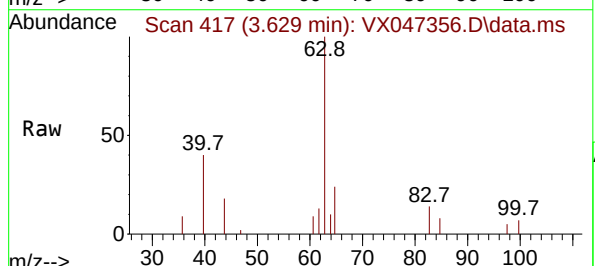
Tgt Ion: 63 Resp: 6019

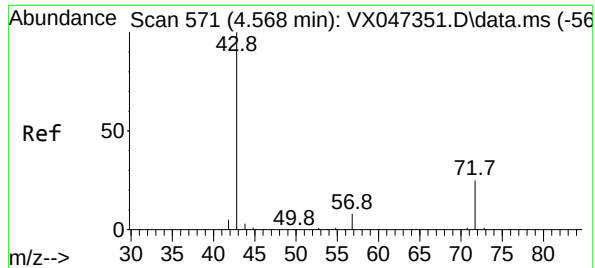
Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.9#

100 6.8 2.1 6.3#





#25

2-Butanone

Concen: 4.166 ug/l

RT: 4.605 min Scan# 51

Delta R.T. 0.036 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 8214

Ion Ratio Lower Upper

43 100

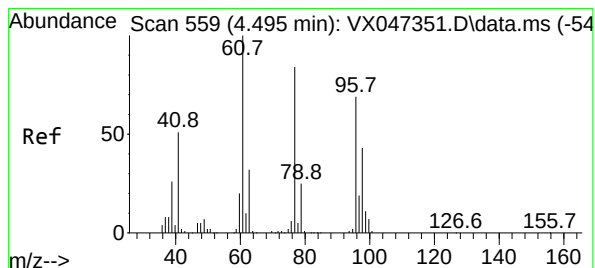
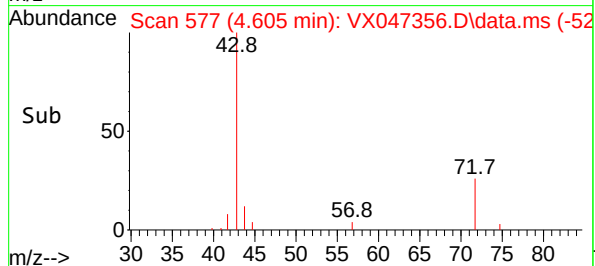
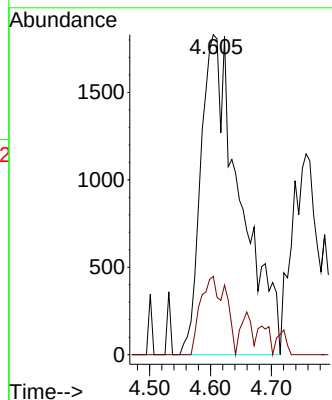
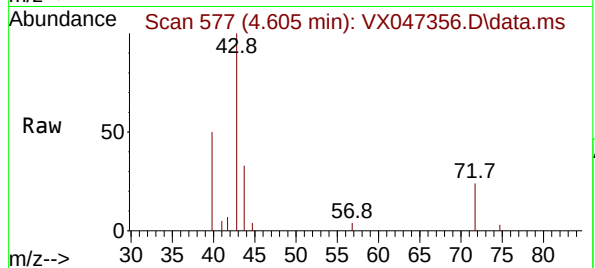
72 18.3 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#26

2,2-Dichloropropane

Concen: 0.842 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX047356.D

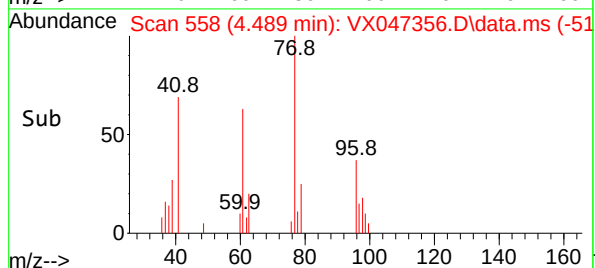
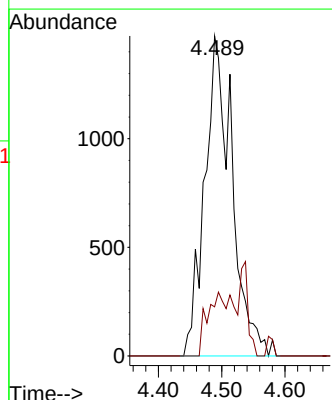
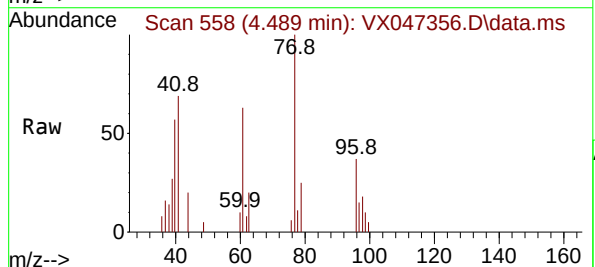
Acq: 15 Aug 2025 12:30

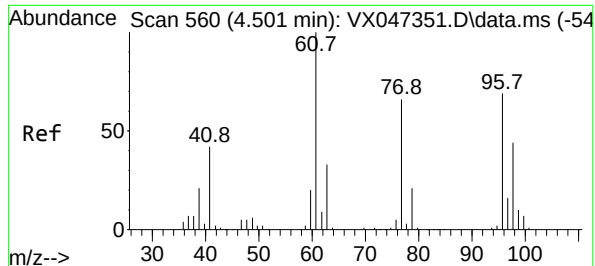
Tgt Ion: 77 Resp: 4442

Ion Ratio Lower Upper

77 100

97 13.1 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 0.889 ug/l

RT: 4.513 min Scan# 50

Delta R.T. 0.012 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

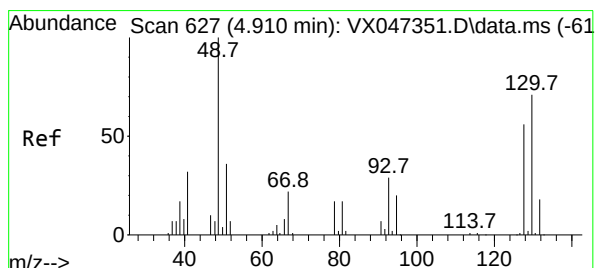
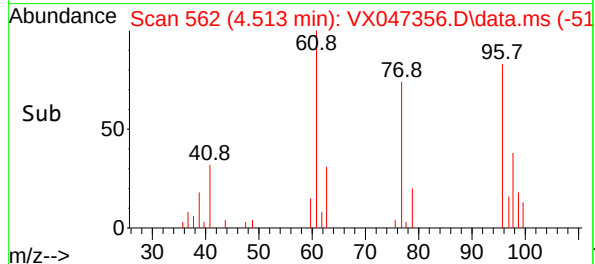
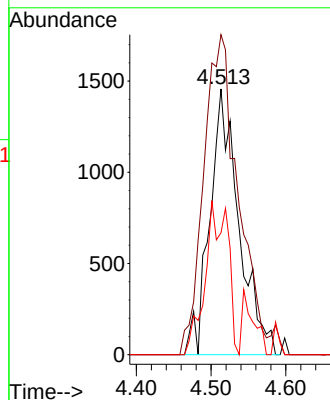
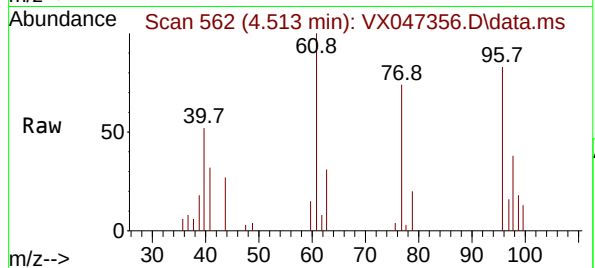
Tgt Ion:	96	Resp:	3960
Ion	Ratio	Lower	Upper
96	100		
61	140.7	0.0	296.6
98	44.5	0.0	130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#28

Bromochloromethane

Concen: 0.945 ug/l

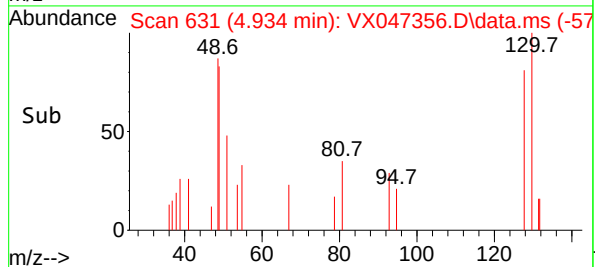
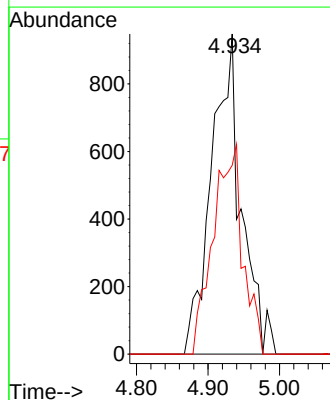
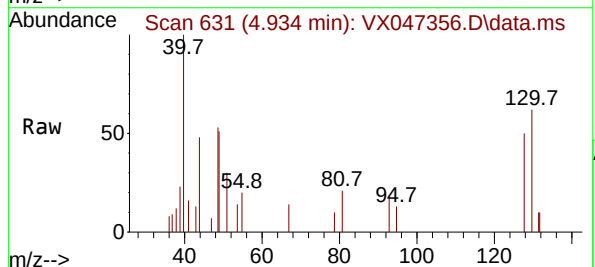
RT: 4.934 min Scan# 631

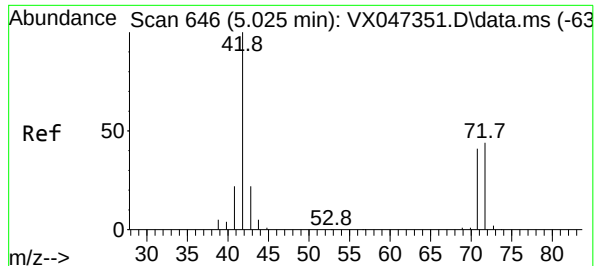
Delta R.T. 0.024 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	49	Resp:	2750
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	65.1	59.8	89.6





#29

Tetrahydrofuran

Concen: 4.923 ug/l m

RT: 5.044 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

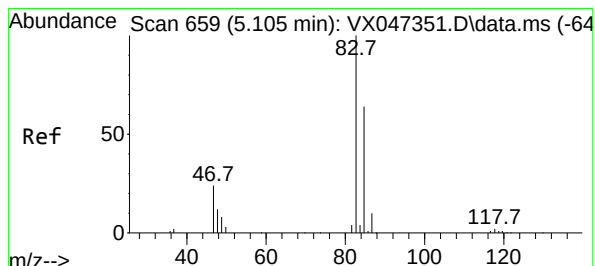
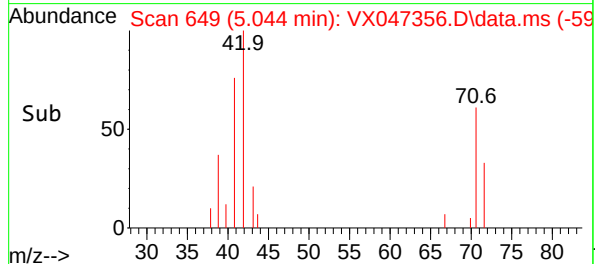
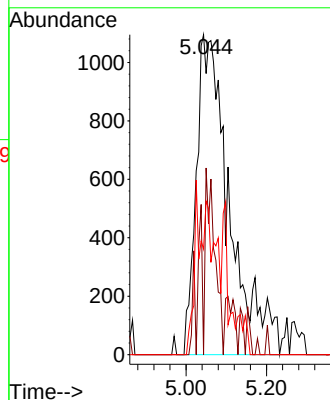
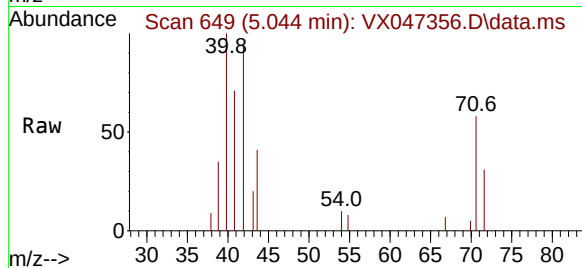
VSTDIC001

Tgt Ion:	42	Resp:	627
Ion	Ratio	Lower	Upper
42	100		
72	16.3	34.6	51.8
71	13.8	32.6	49.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#30

Chloroform

Concen: 0.875 ug/l

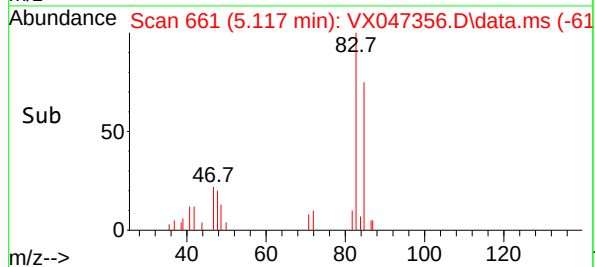
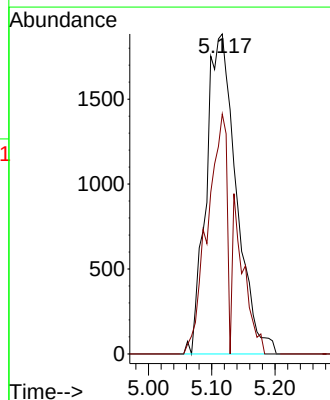
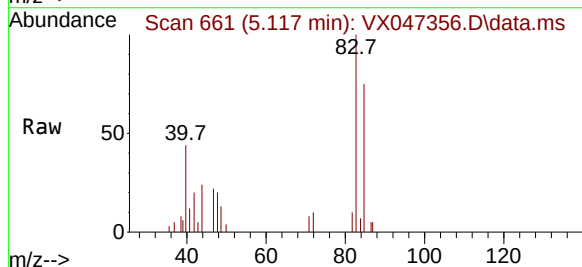
RT: 5.117 min Scan# 661

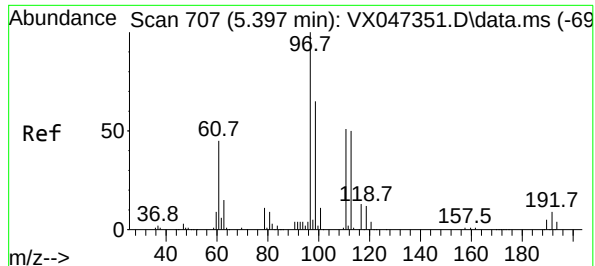
Delta R.T. 0.012 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	83	Resp:	6246
Ion	Ratio	Lower	Upper
83	100		
85	75.0	51.2	76.8





#32

1,1,1-Trichloroethane

Concen: 0.804 ug/l

RT: 5.415 min Scan# 710

Delta R.T. 0.018 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

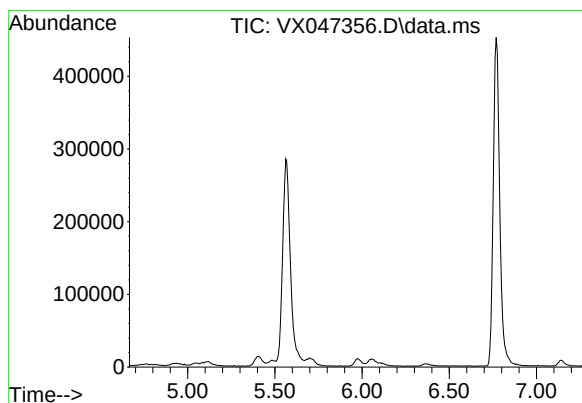
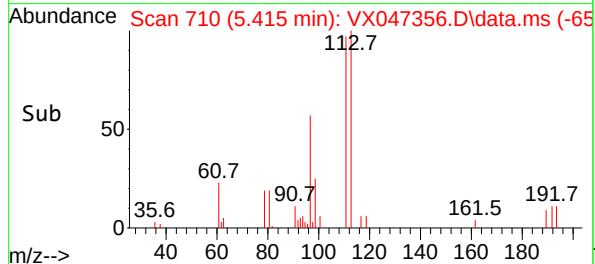
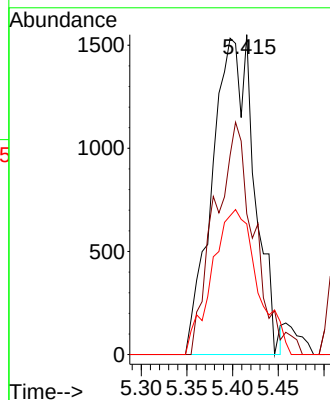
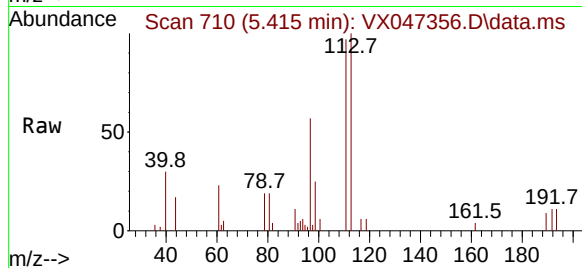
Tgt Ion:	97	Resp:	493
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0
61	49.3	35.7	53.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.96 min

Lab File: VX047356.D

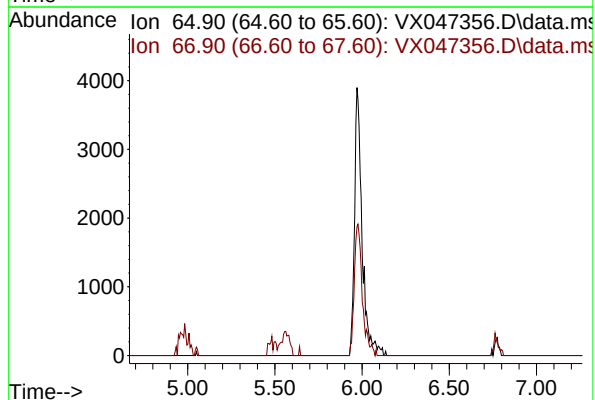
Acq: 15 Aug 2025 12:30

Tgt Ion: 65

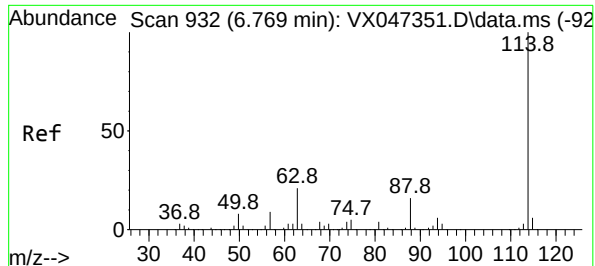
Sig Exp Ratio

65 100

67 53.0



Ion 66.90 (66.60 to 67.60): VX047356.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 494689

Ion Ratio Lower Upper

114 100

63 22.6 0.0 42.4

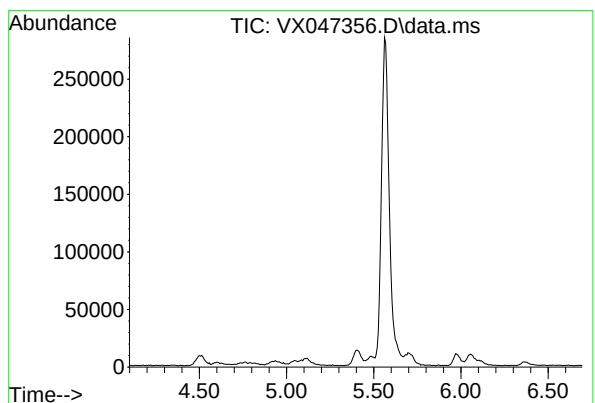
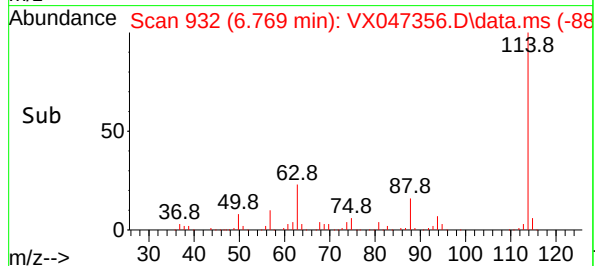
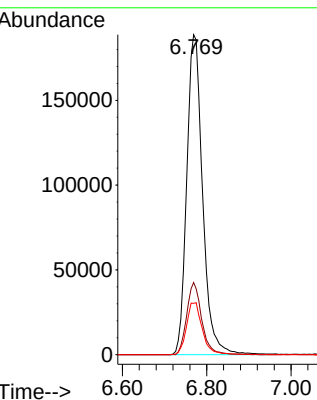
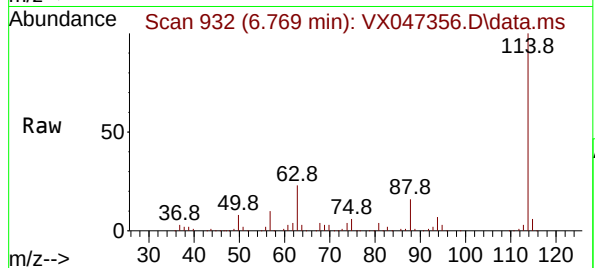
88 16.1 0.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.40 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

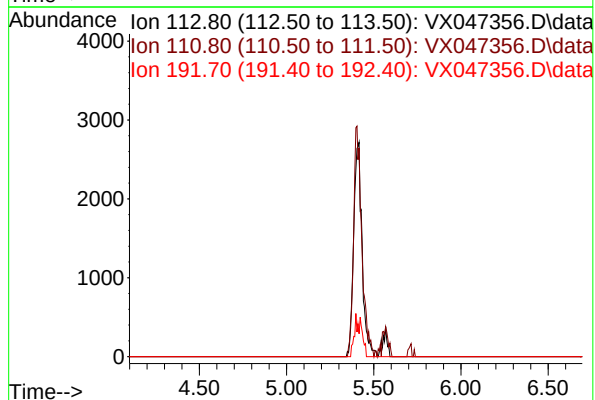
Tgt Ion: 113

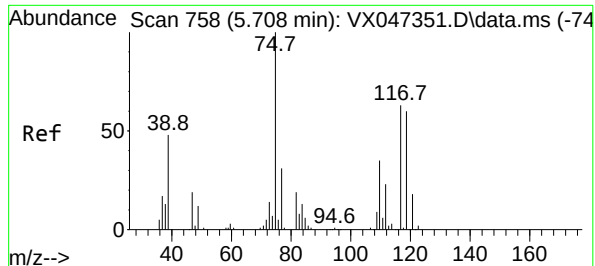
Sig Exp Ratio

113 100

111 101.8

192 17.6





#36

1,1-Dichloropropene

Concen: 0.926 ug/l

RT: 5.708 min Scan# 70

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

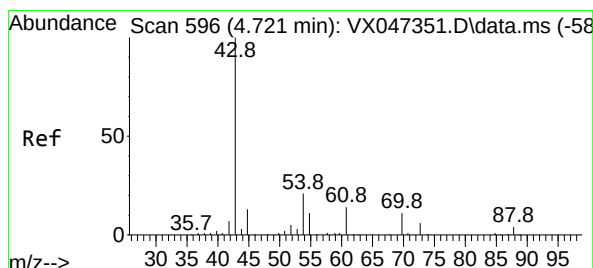
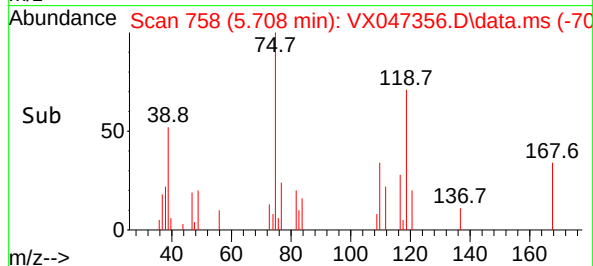
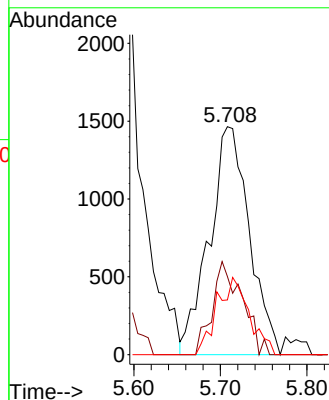
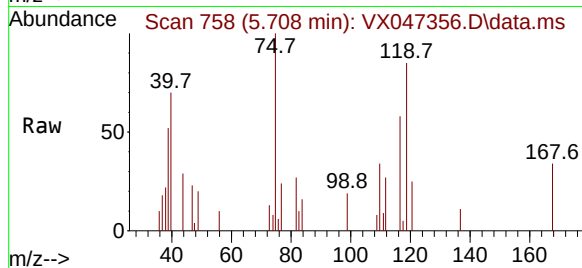
VSTDIC001

Tgt Ion:	75	Resp:	469
Ion	Ratio	Lower	Upper
75	100		
110	30.7	17.4	52.2
77	27.4	24.4	36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#37

Ethyl Acetate

Concen: 0.924 ug/l m

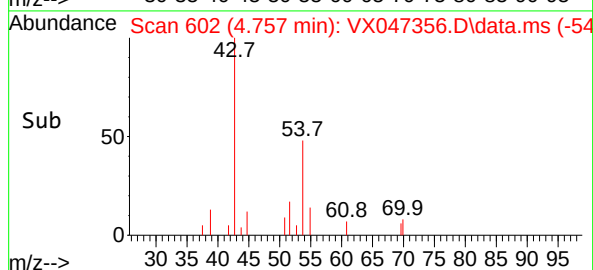
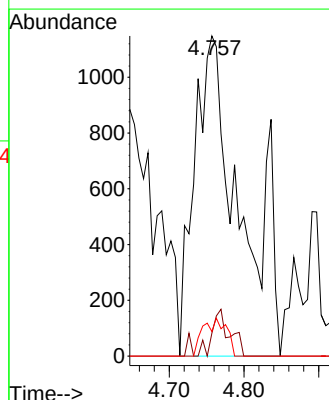
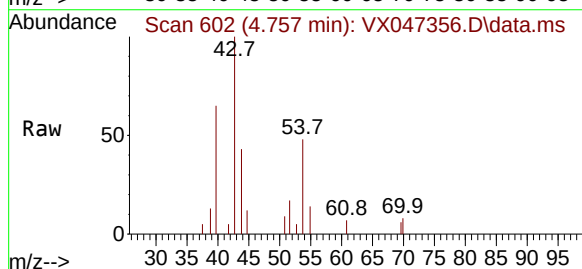
RT: 4.757 min Scan# 602

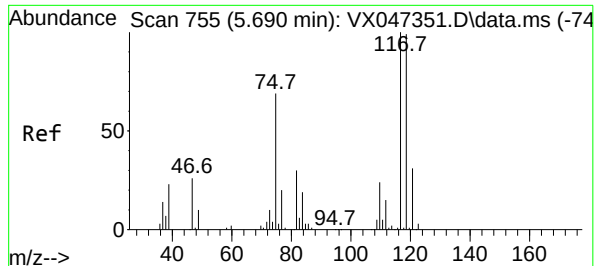
Delta R.T. 0.036 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	43	Resp:	4864
Ion	Ratio	Lower	Upper
43	100		
61	5.7	9.4	14.2#
70	2.9	7.0	10.6#





#38

Carbon Tetrachloride

Concen: 0.921 ug/l

RT: 5.696 min Scan# 755

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

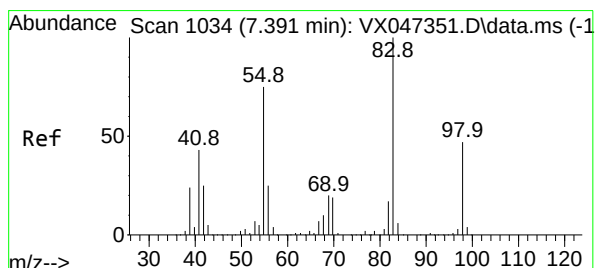
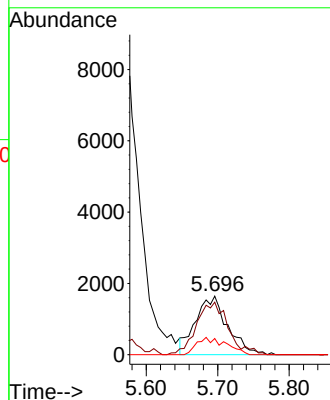
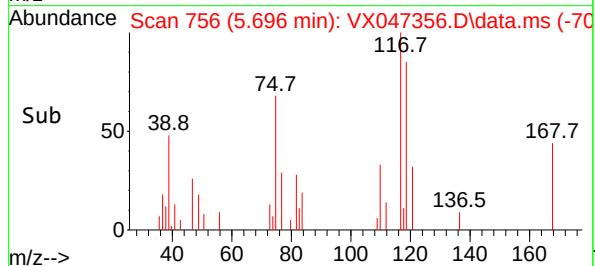
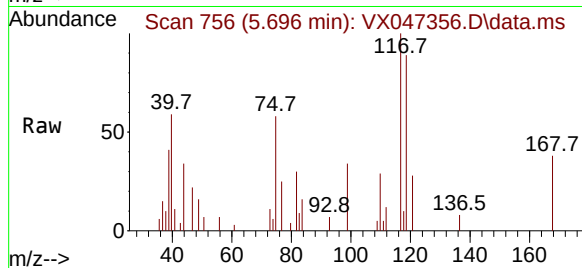
VSTDIC001

Tgt Ion:	117	Resp:	5100
Ion	Ratio	Lower	Upper
117	100		
119	89.4	78.5	117.7
121	27.5	24.7	37.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#39

Methylcyclohexane

Concen: 0.931 ug/l

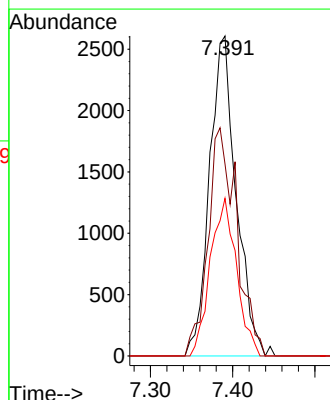
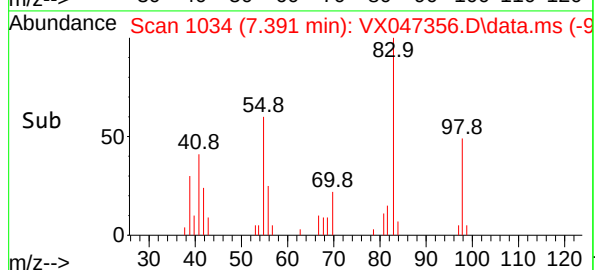
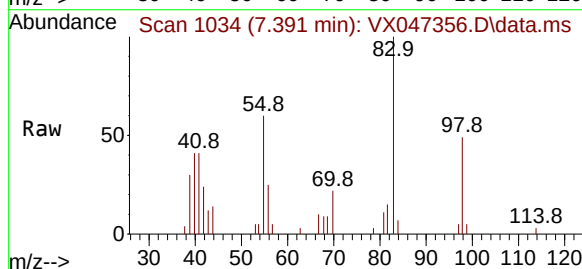
RT: 7.391 min Scan# 1034

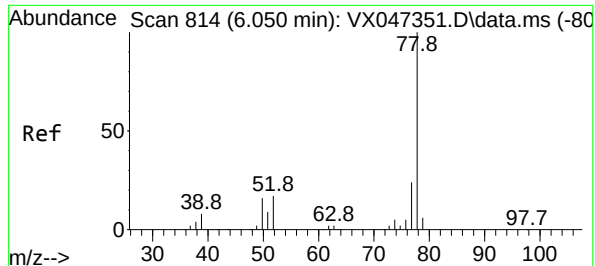
Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	83	Resp:	5884
Ion	Ratio	Lower	Upper
83	100		
55	60.0	60.0	90.0
98	49.3	37.2	55.8





#40

Benzene

Concen: 0.855 ug/l

RT: 6.056 min Scan# 814

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 1297

Ion Ratio Lower Upper

78 100

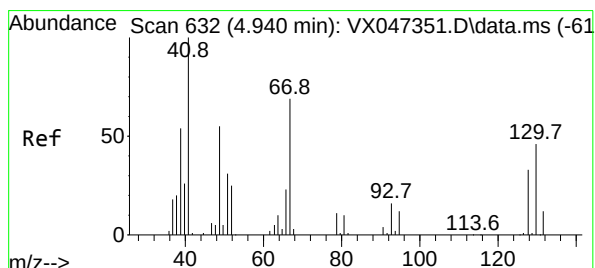
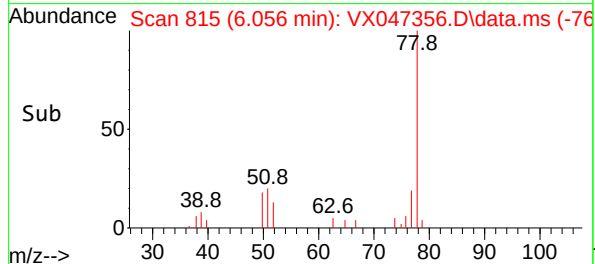
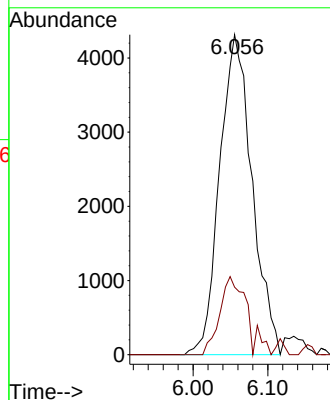
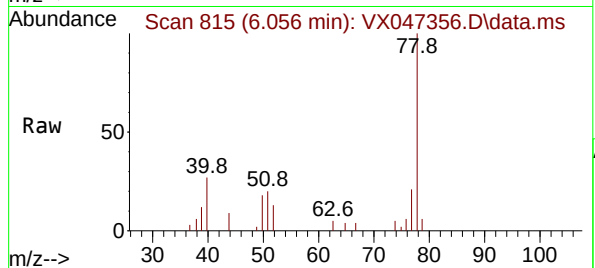
77 19.9 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#41

Methacrylonitrile

Concen: 0.782 ug/l m

RT: 4.958 min Scan# 635

Delta R.T. 0.018 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion: 41 Resp: 1736

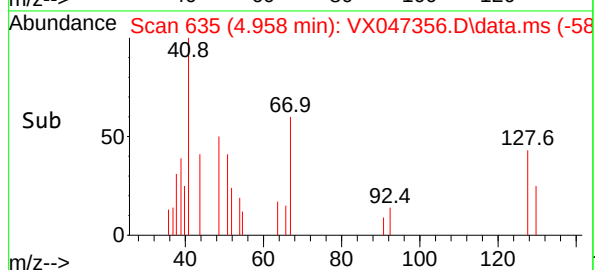
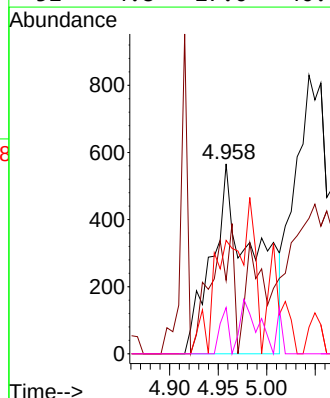
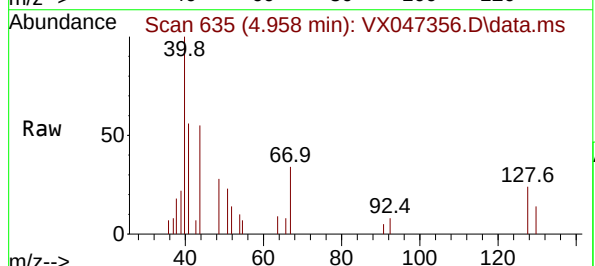
Ion Ratio Lower Upper

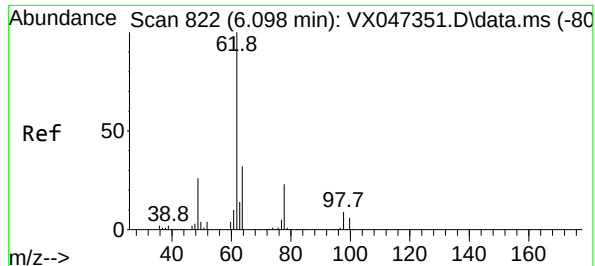
41 100

39 33.1 45.4 68.2#

67 35.9 64.0 96.0#

52 4.8 27.0 40.6#





#42

1,2-Dichloroethane

Concen: 0.890 ug/l

RT: 6.123 min Scan# 81

Delta R.T. 0.024 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 4784

Ion Ratio Lower Upper

62 100

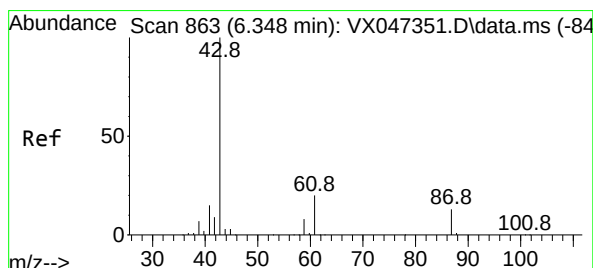
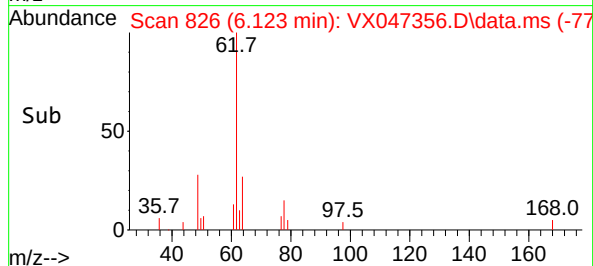
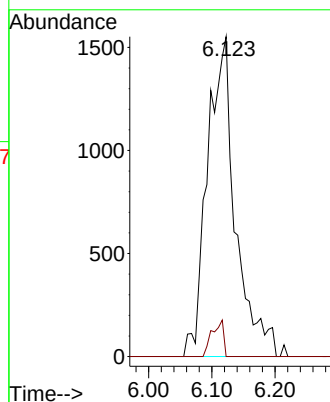
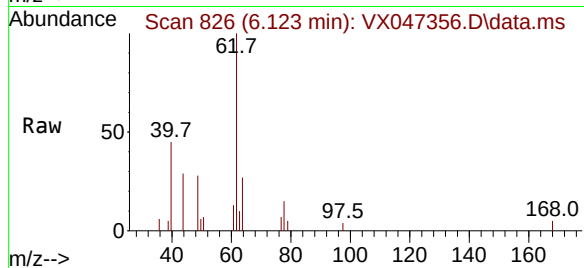
98 4.7 0.0 18.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#43

Isopropyl Acetate

Concen: 0.844 ug/l

RT: 6.366 min Scan# 866

Delta R.T. 0.018 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

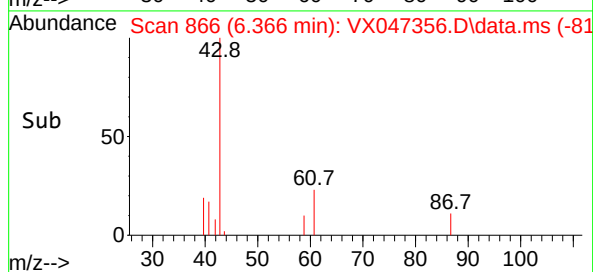
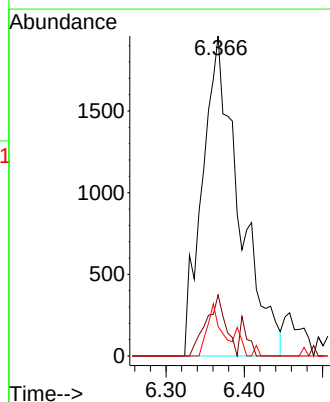
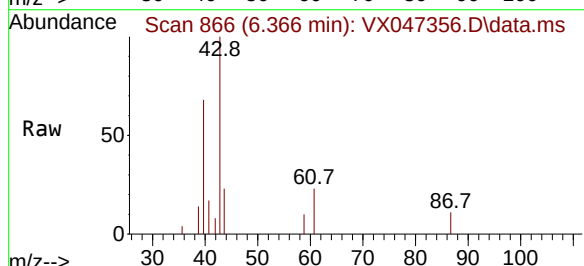
Tgt Ion: 43 Resp: 6382

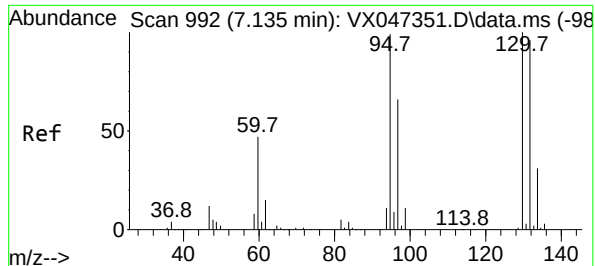
Ion Ratio Lower Upper

43 100

61 10.0 15.4 23.0#

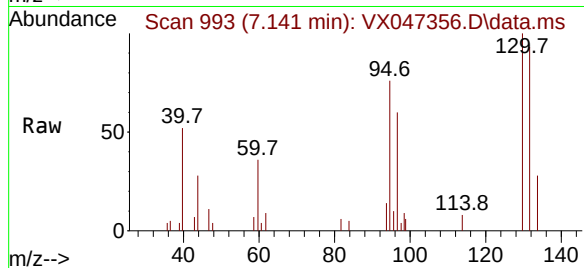
87 6.4 10.2 15.4#





#44
Trichloroethene
Concen: 0.857 ug/l
RT: 7.141 min Scan# 992
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

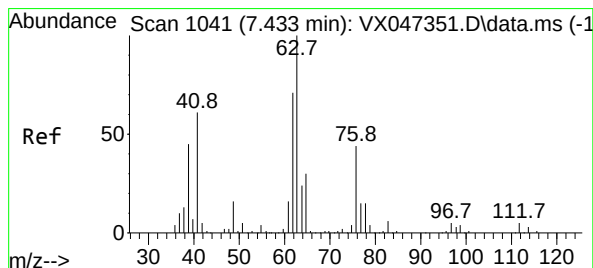
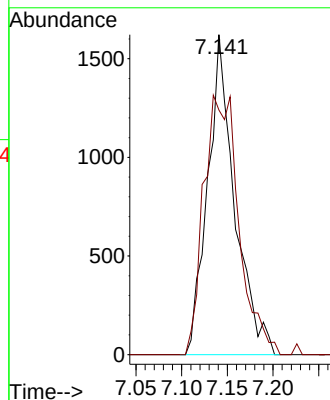
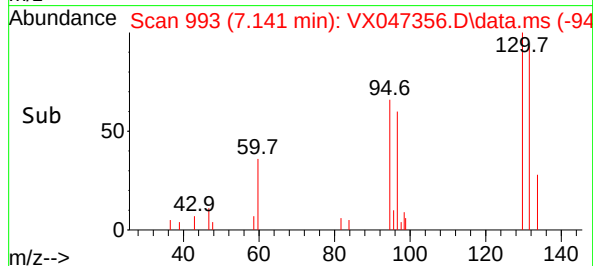
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



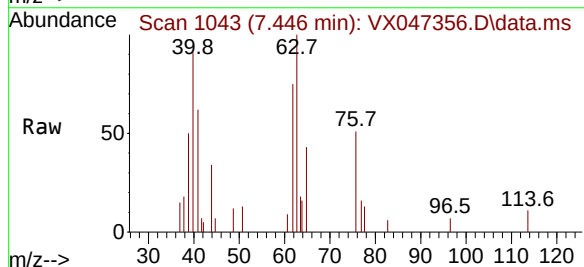
Tgt Ion: 130 Resp: 3329
Ion Ratio Lower Upper
130 100
95 86.1 0.0 198.6

Manual Integrations
APPROVED

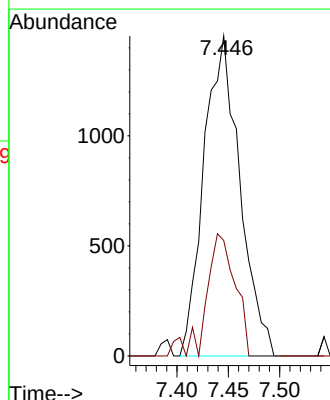
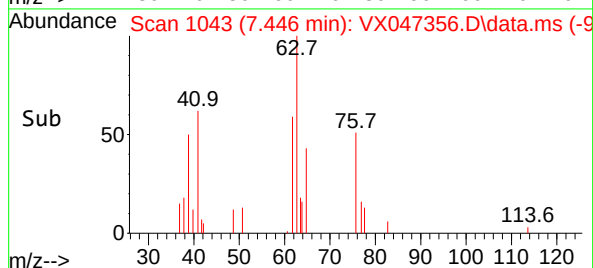
Reviewed By : John Carlone 08/18/2025
Supervised By : Mahesh Dadoda 08/19/2025

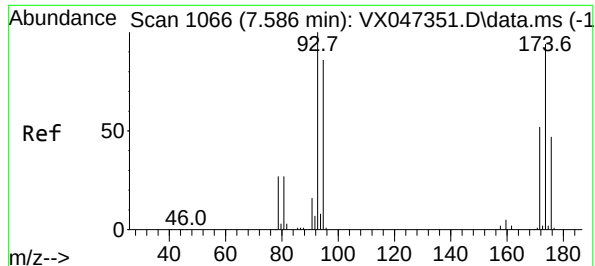


#45
1,2-Dichloropropane
Concen: 0.929 ug/l
RT: 7.446 min Scan# 1043
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30



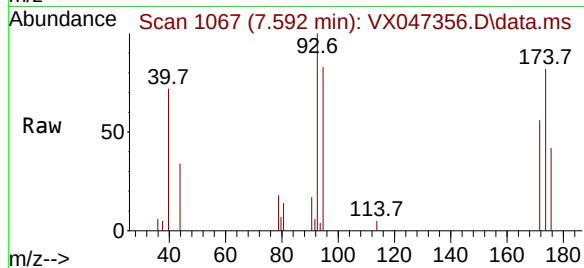
Tgt Ion: 63 Resp: 3532
Ion Ratio Lower Upper
63 100
65 36.1 23.8 35.6#





#46
Dibromomethane
Concen: 0.889 ug/l
RT: 7.592 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

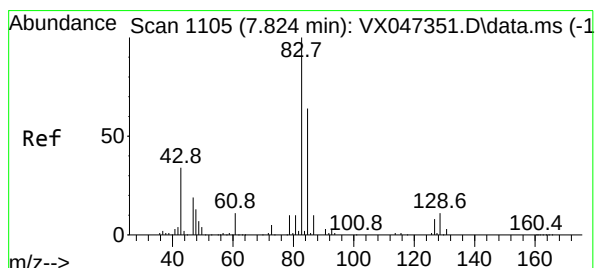
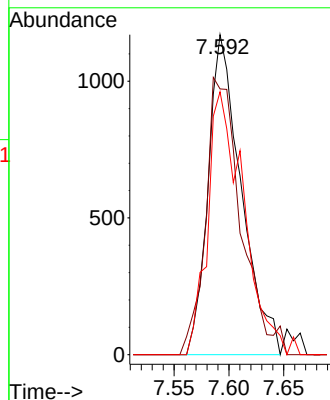
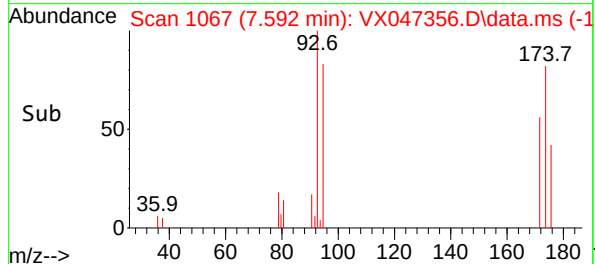
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 93 Resp: 245
Ion Ratio Lower Upper
93 100
95 92.7 68.0 102.0
174 90.2 75.8 113.6

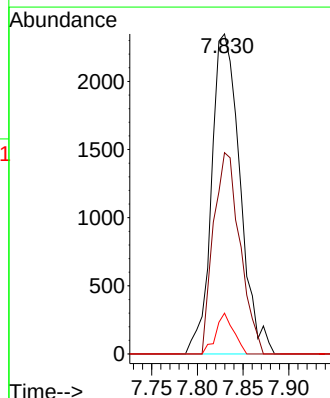
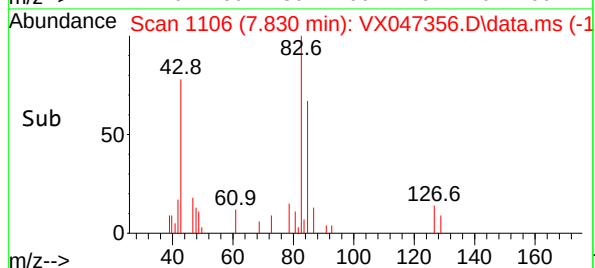
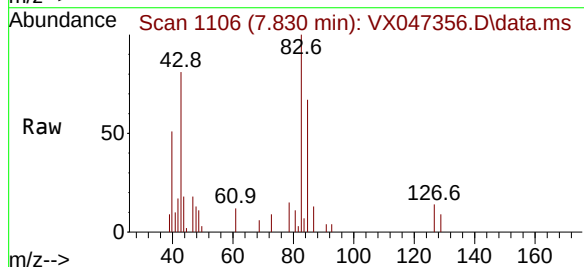
Manual Integrations
APPROVED

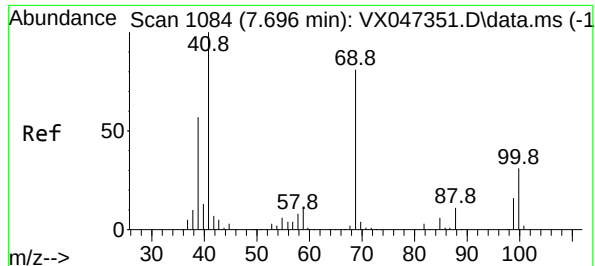
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#47
Bromodichloromethane
Concen: 0.888 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 83 Resp: 5078
Ion Ratio Lower Upper
83 100
85 62.9 51.0 76.6
127 12.8 7.0 10.4#





#48

Methyl methacrylate

Concen: 0.887 ug/l m

RT: 7.720 min Scan# 1088

Delta R.T. 0.024 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

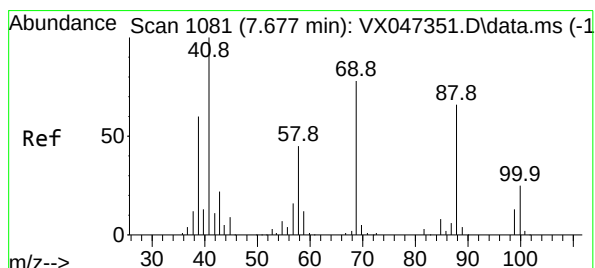
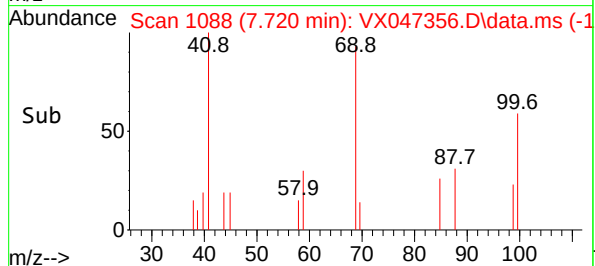
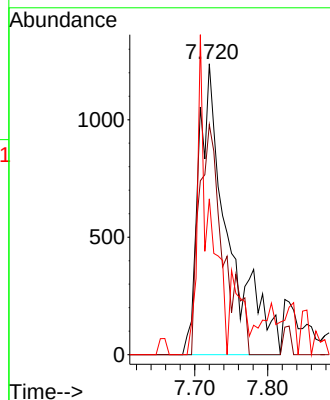
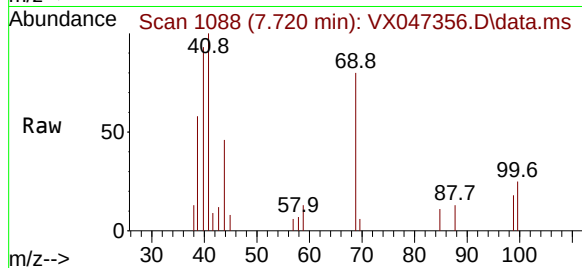
Tgt Ion:	41	Resp:	3480
Ion	Ratio	Lower	Upper
41	100		
69	65.9	65.0	97.4
39	43.9	45.7	68.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#49

1,4-Dioxane

Concen: 15.003 ug/l m

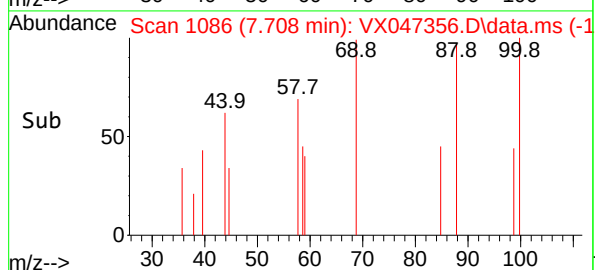
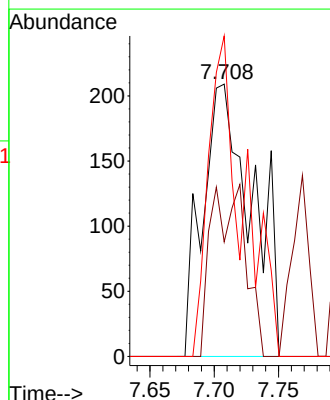
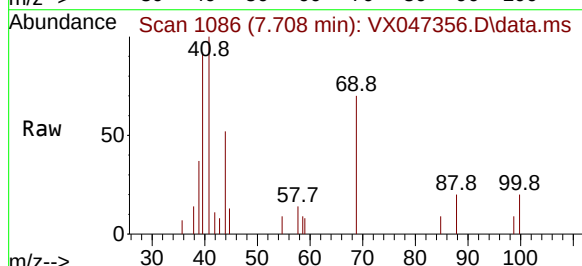
RT: 7.708 min Scan# 1086

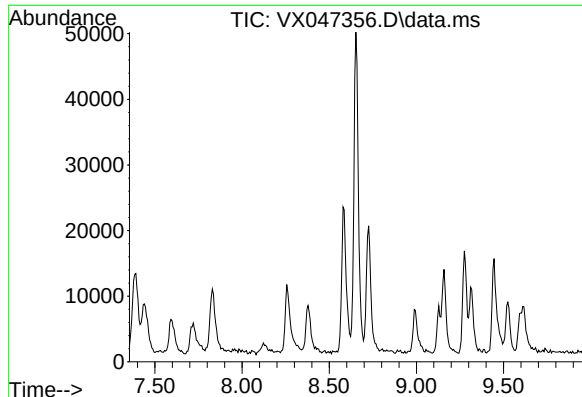
Delta R.T. 0.030 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	88	Resp:	559
Ion	Ratio	Lower	Upper
88	100		
43	0.0	32.4	48.6
58	58.0	56.9	85.3





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

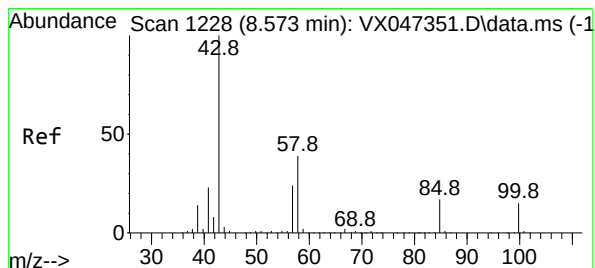
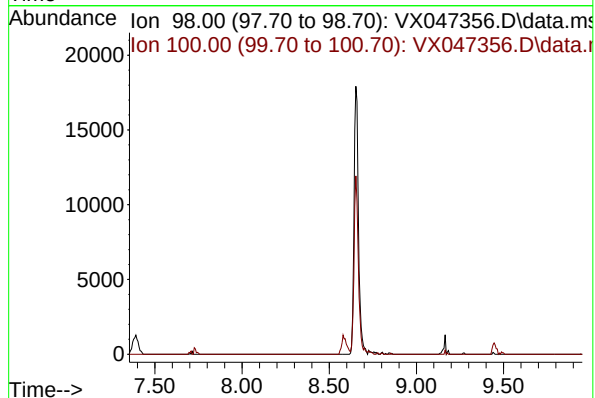
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 98
Sig Exp Ratio
98 100
100 67.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

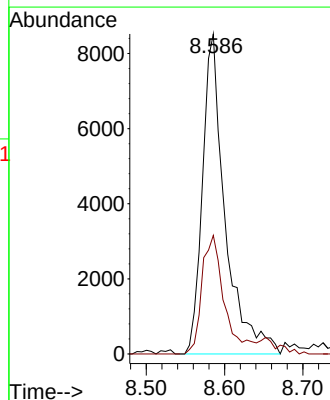
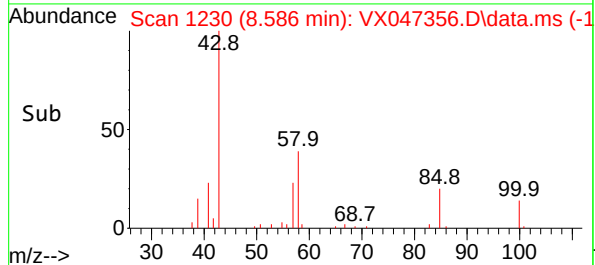
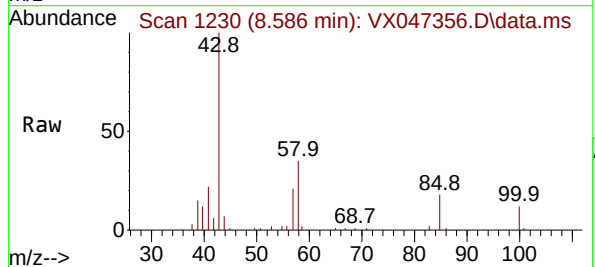
Manual Integrations
APPROVED

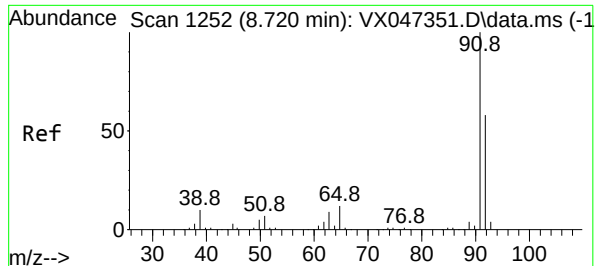
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#51
4-Methyl-2-Pentanone
Concen: 3.933 ug/l
RT: 8.586 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 43 Resp: 17109
Ion Ratio Lower Upper
43 100
58 36.8 31.2 46.8





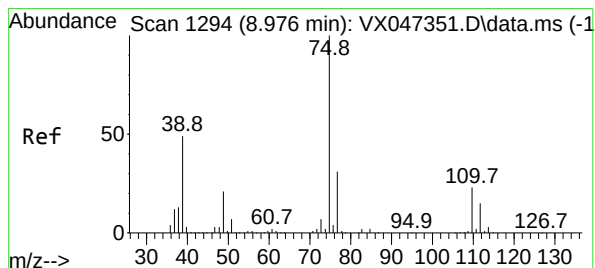
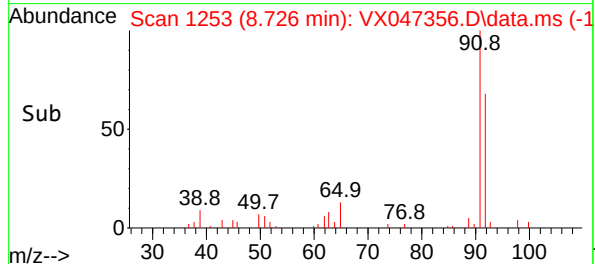
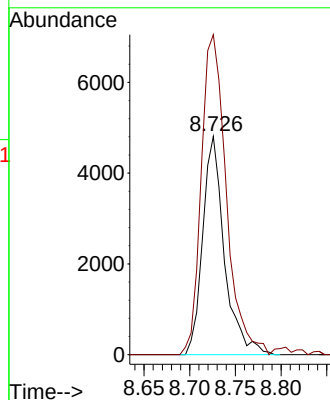
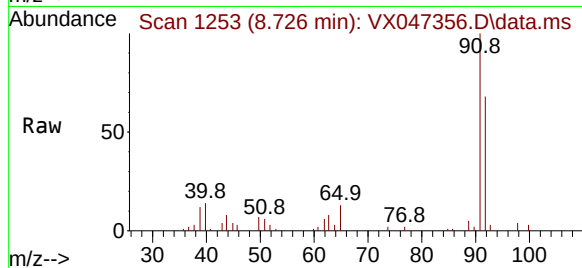
#52
Toluene
Concen: 0.846 ug/l
RT: 8.726 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 92 Resp: 7930
Ion Ratio Lower Upper
92 100
91 168.9 136.3 204.5

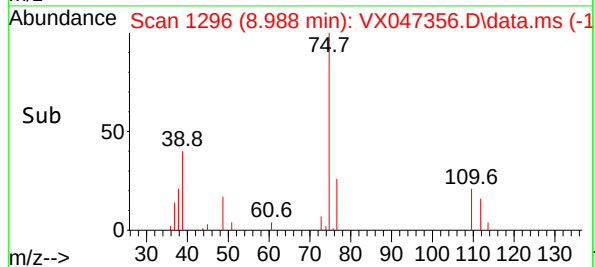
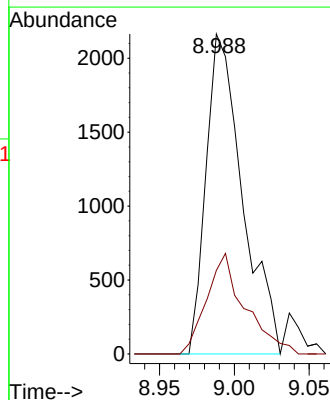
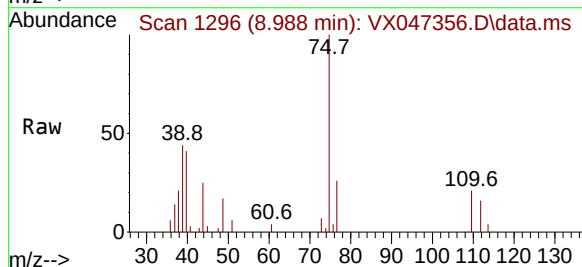
Manual Integrations
APPROVED

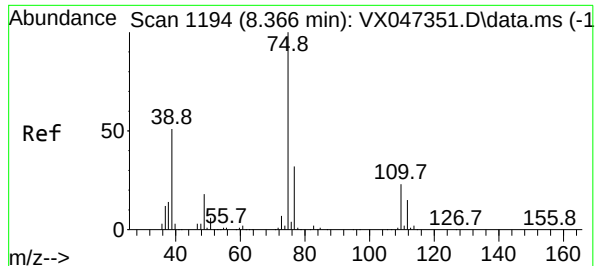
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#53
t-1,3-Dichloropropene
Concen: 0.735 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 75 Resp: 3671
Ion Ratio Lower Upper
75 100
77 26.1 24.7 37.1





#54

cis-1,3-Dichloropropene

Concen: 0.790 ug/l

RT: 8.378 min Scan# 1196

Delta R.T. 0.012 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

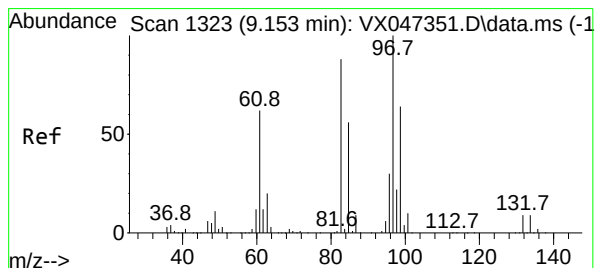
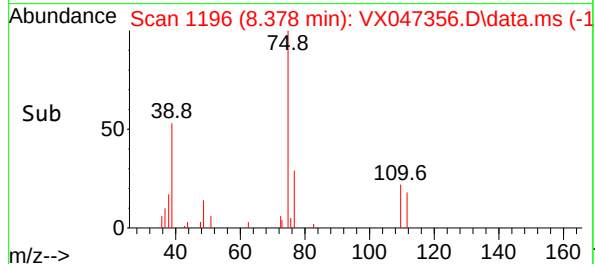
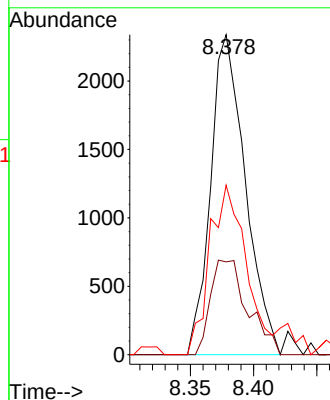
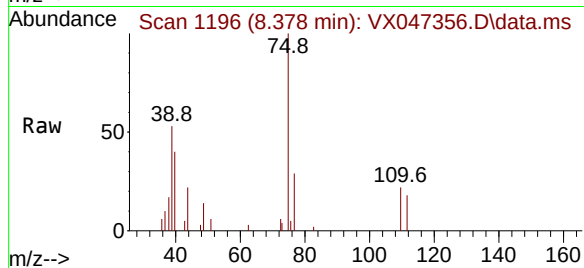
VSTDIC001

Tgt Ion:	75	Resp:	446
Ion	Ratio	Lower	Upper
75	100		
77	27.6	25.6	38.4
39	47.5	40.9	61.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#55

1,1,2-Trichloroethane

Concen: 0.870 ug/l

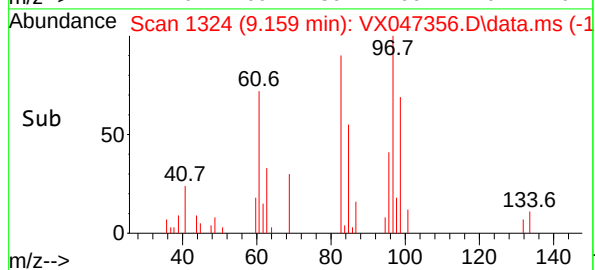
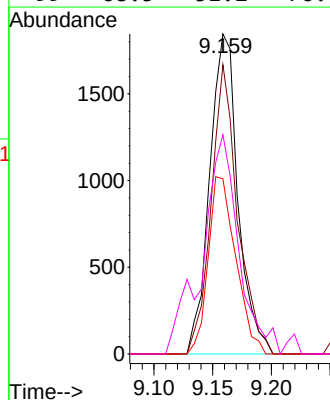
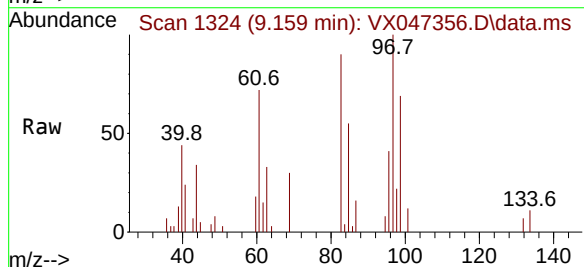
RT: 9.159 min Scan# 1324

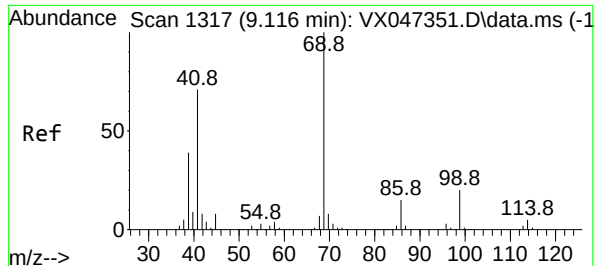
Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	97	Resp:	3095
Ion	Ratio	Lower	Upper
97	100		
83	90.4	70.6	106.0
85	54.7	44.7	67.1
99	68.5	51.2	76.8





#56

Ethyl methacrylate

Concen: 0.763 ug/l

RT: 9.128 min Scan# 1317

Delta R.T. 0.012 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

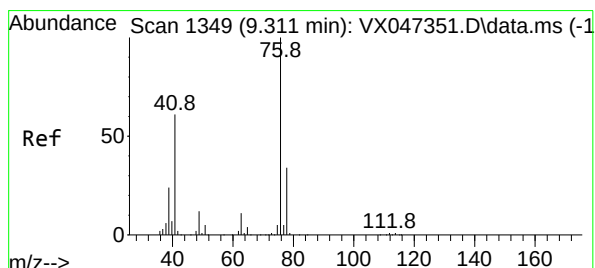
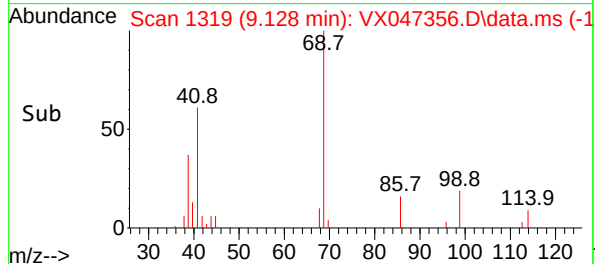
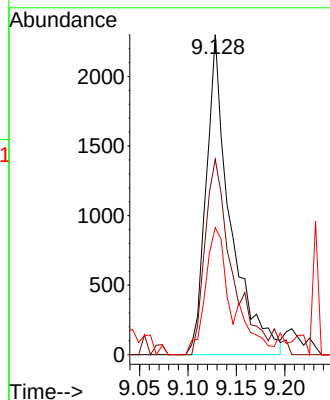
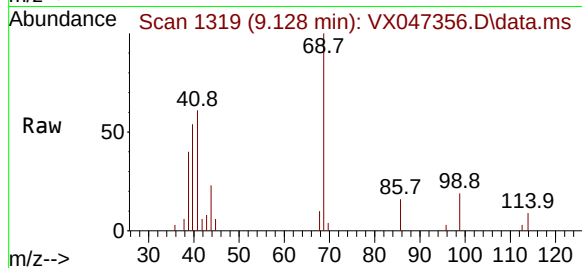
Instrument :

MSVOA_X

Client Sample Id :

VSTDIC001

Tgt Ion:	69	Resp:	400
Ion	Ratio	Lower	Upper
69	100		
41	71.7	55.3	82.9
39	44.4	30.2	45.2

Manual Integrations
APPROVEDReviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

#57

1,3-Dichloropropane

Concen: 0.902 ug/l

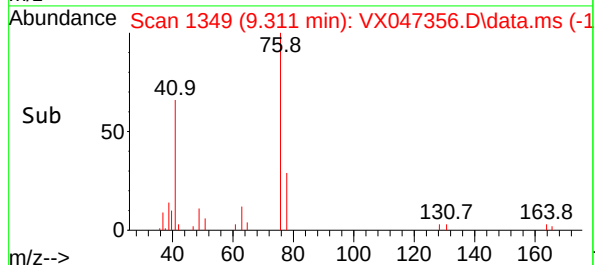
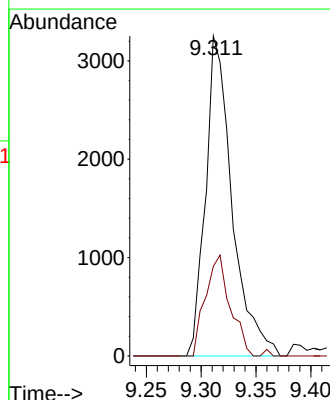
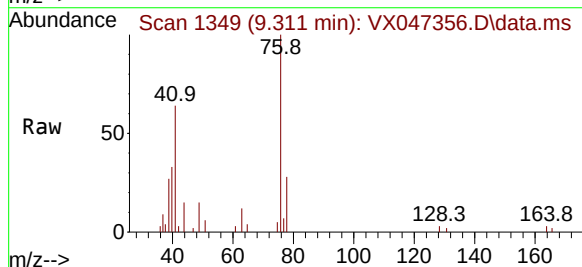
RT: 9.311 min Scan# 1349

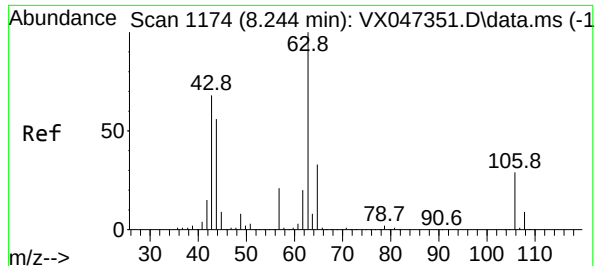
Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	76	Resp:	5471
Ion	Ratio	Lower	Upper
76	100		
78	29.4	26.2	39.2





#58

2-Chloroethyl Vinyl ether

Concen: 10.313 ug/l

RT: 8.256 min Scan# 1174

Delta R.T. 0.012 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 5074

Ion Ratio Lower Upper

63 100

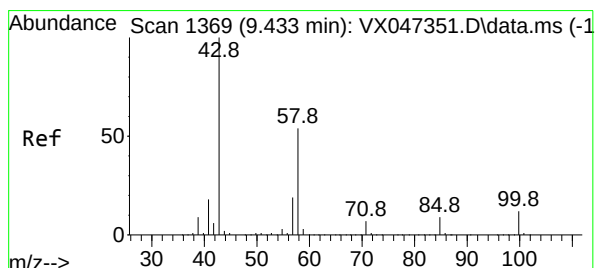
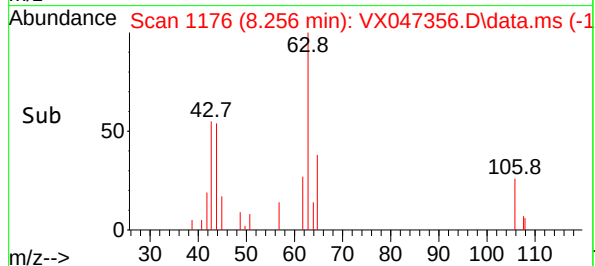
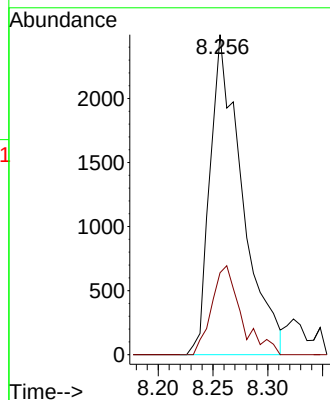
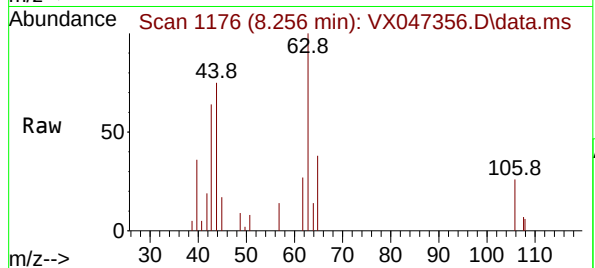
106 25.6 22.8 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#59

2-Hexanone

Concen: 3.926 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX047356.D

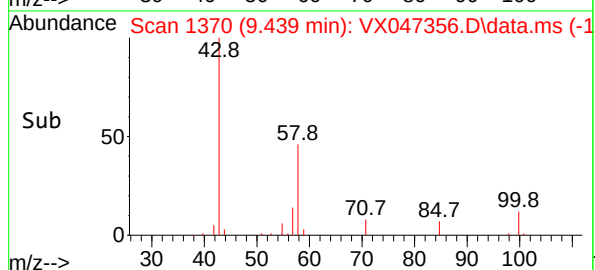
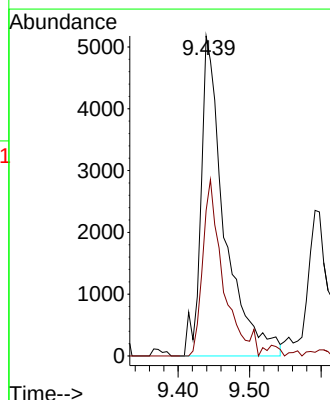
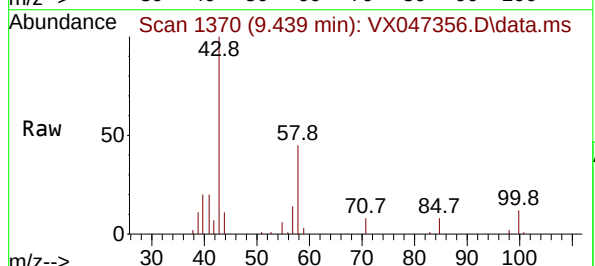
Acq: 15 Aug 2025 12:30

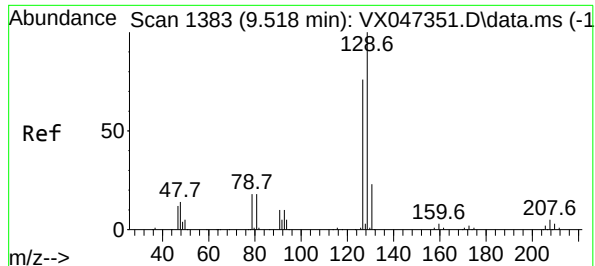
Tgt Ion: 43 Resp: 11811

Ion Ratio Lower Upper

43 100

58 48.3 26.9 80.7





#60

Dibromochloromethane

Concen: 0.893 ug/l

RT: 9.524 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:129 Resp: 3770

Ion Ratio Lower Upper

129 100

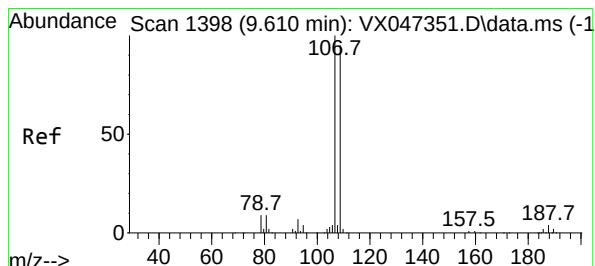
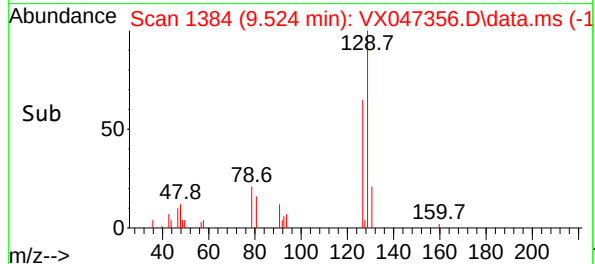
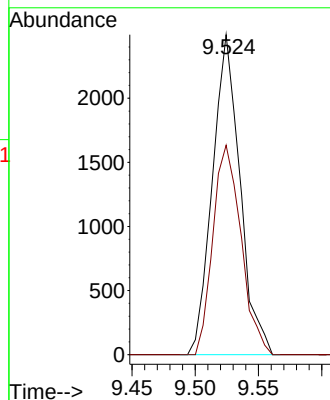
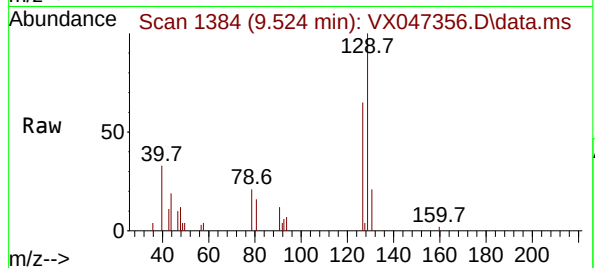
127 66.8 38.9 116.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#61

1,2-Dibromoethane

Concen: 0.906 ug/l

RT: 9.616 min Scan# 1399

Delta R.T. 0.006 min

Lab File: VX047356.D

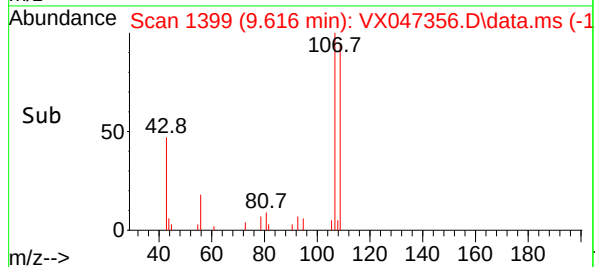
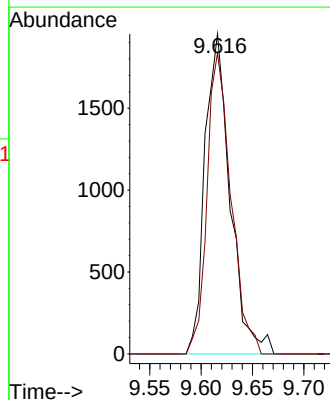
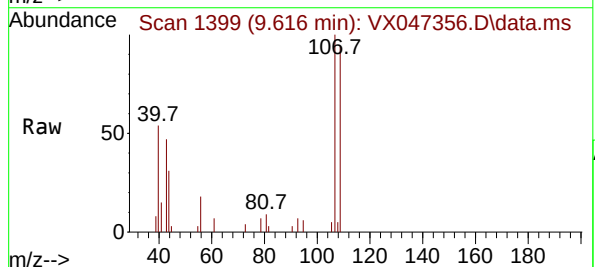
Acq: 15 Aug 2025 12:30

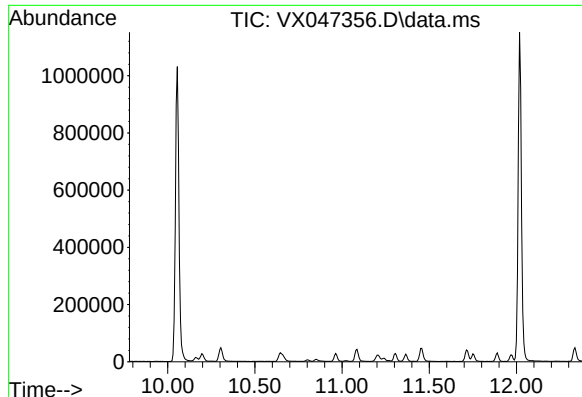
Tgt Ion:107 Resp: 3325

Ion Ratio Lower Upper

107 100

109 89.7 76.2 114.2





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

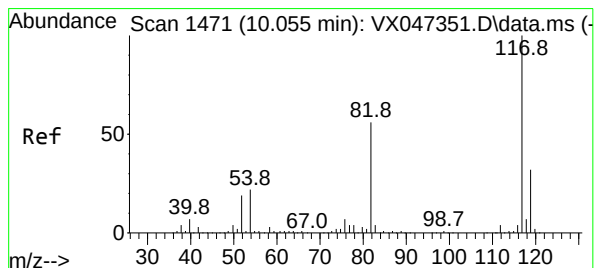
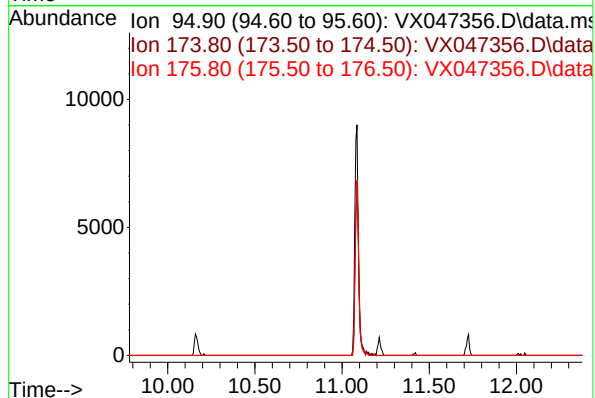
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 95
Sig Exp Ratio
95 100
174 74.0
176 72.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

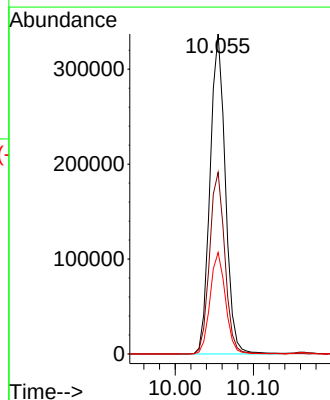
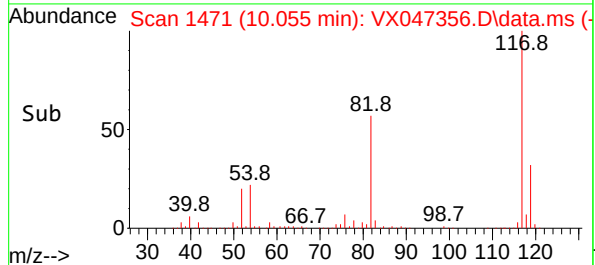
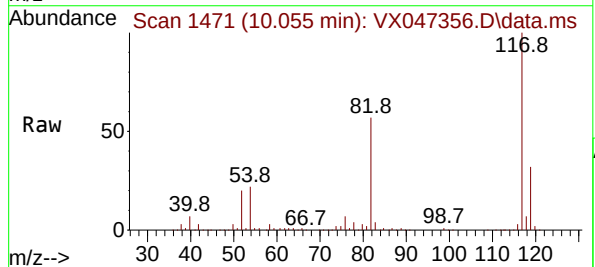
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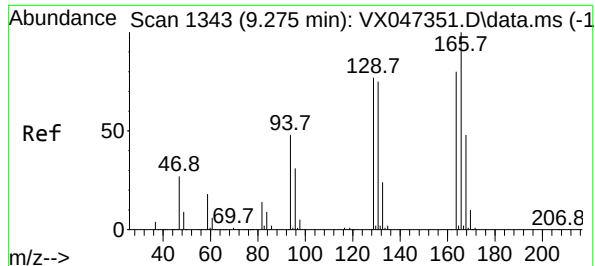
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:117 Resp: 456440
Ion Ratio Lower Upper
117 100
82 56.8 45.0 67.4
119 31.7 25.8 38.8





#64

Tetrachloroethene

Concen: 0.875 ug/l

RT: 9.274 min Scan# 1343

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 288

Ion Ratio Lower Upper

164 100

166 132.4 100.3 150.5

129 106.6 77.7 116.5

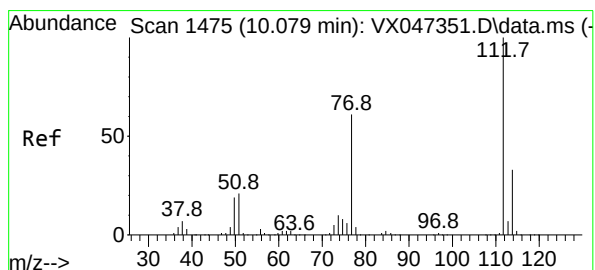
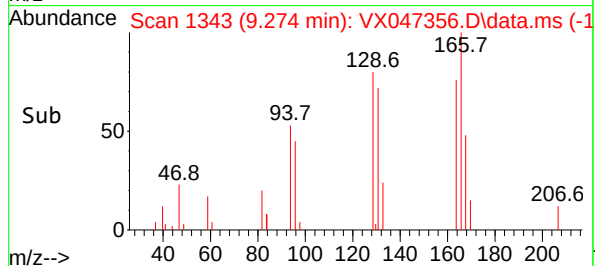
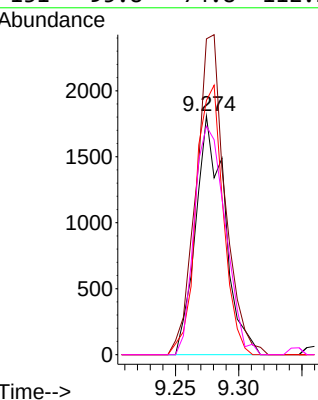
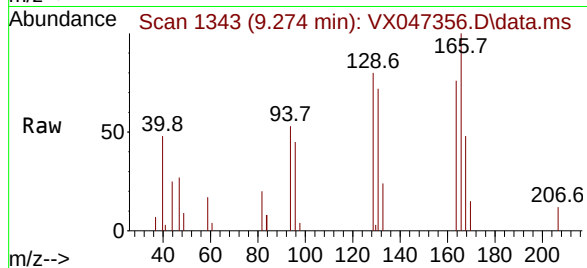
131 95.8 74.8 112.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#65

Chlorobenzene

Concen: 0.903 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX047356.D

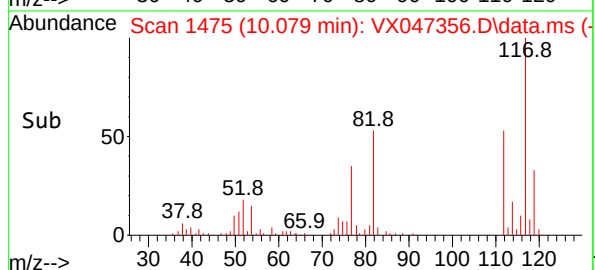
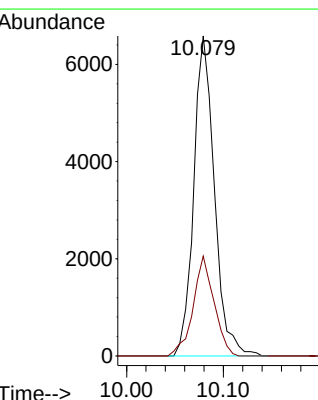
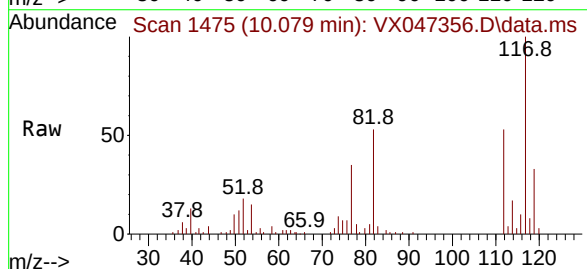
Acq: 15 Aug 2025 12:30

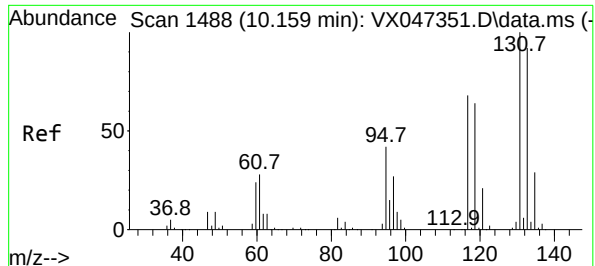
Tgt Ion:112 Resp: 9799

Ion Ratio Lower Upper

112 100

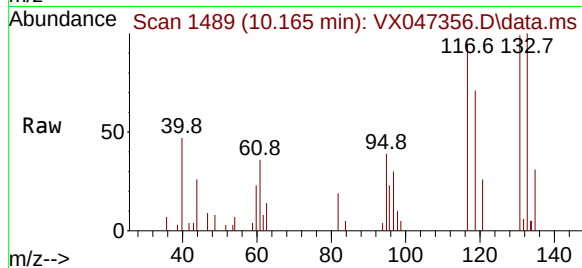
114 31.2 26.4 39.6





#66
1,1,1,2-Tetrachloroethane
Concen: 0.858 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

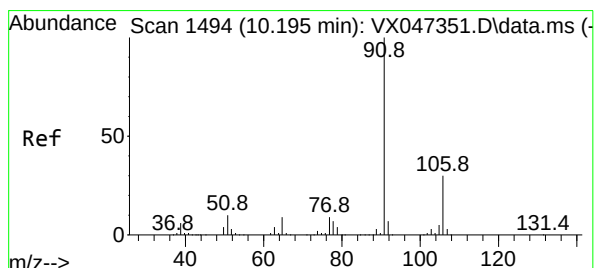
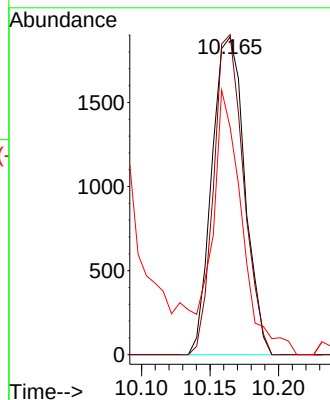
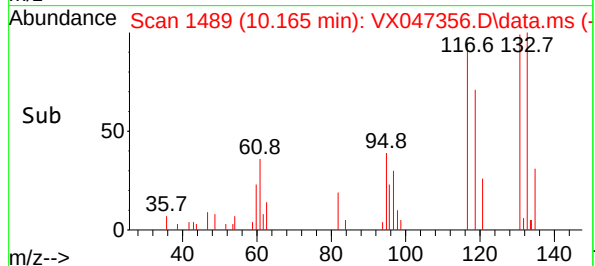
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:131 Resp: 3140
Ion Ratio Lower Upper
131 100
133 91.9 47.6 142.9
119 0.0 32.3 96.8

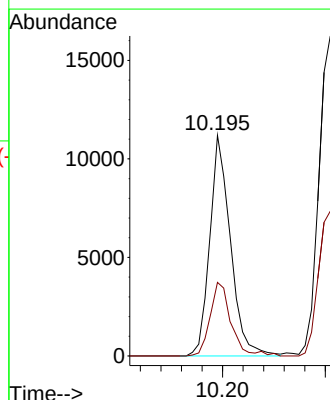
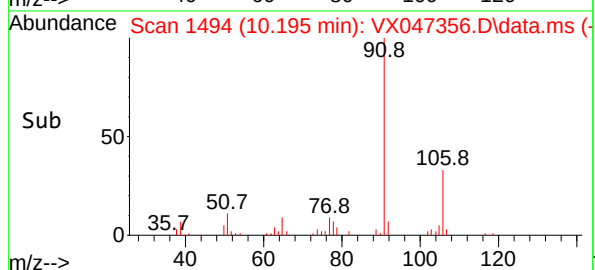
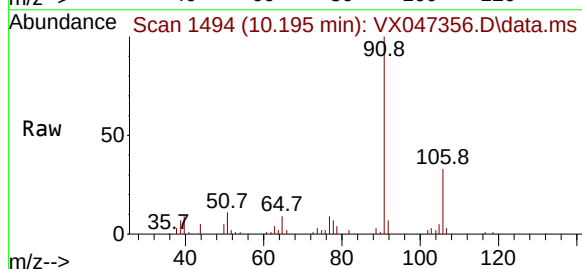
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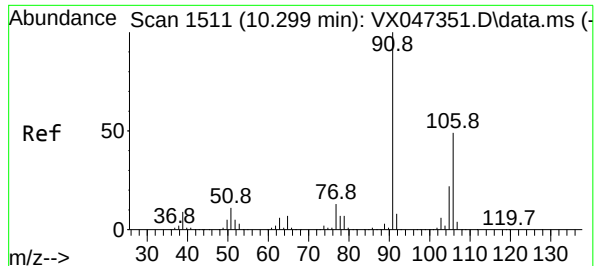
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#67
Ethyl Benzene
Concen: 0.840 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 91 Resp: 15680
Ion Ratio Lower Upper
91 100
106 35.9 24.4 36.6





#68

m/p-Xylenes

Concen: 1.683 ug/l

RT: 10.305 min Scan# 1511

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 11714

Ion Ratio Lower Upper

106 100

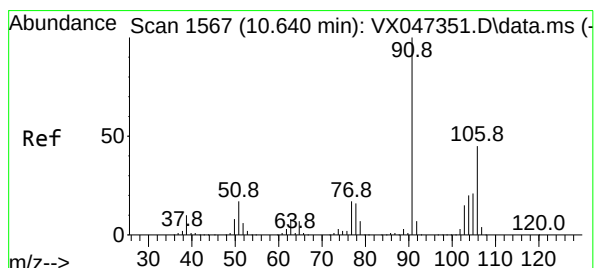
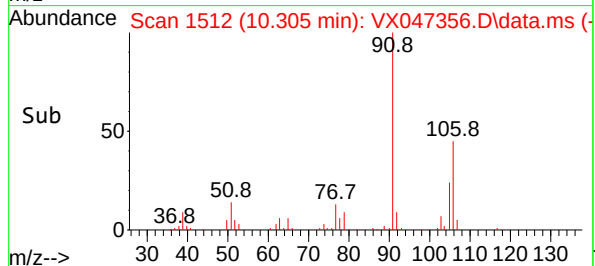
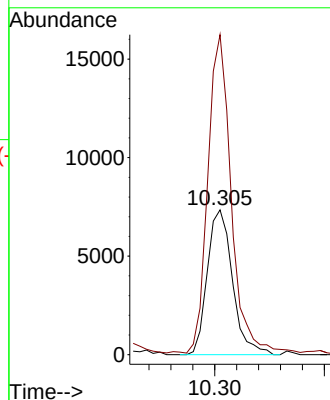
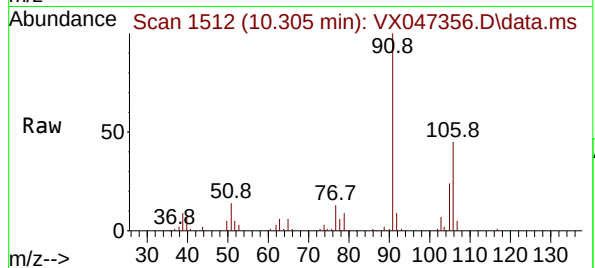
91 203.4 164.7 247.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#69

o-Xylene

Concen: 0.887 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX047356.D

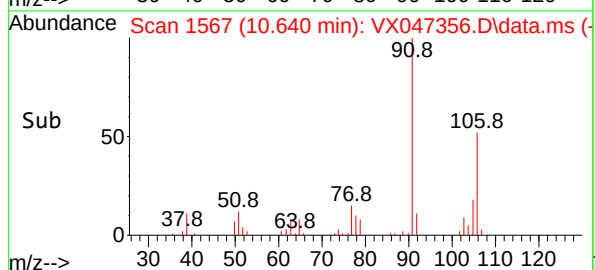
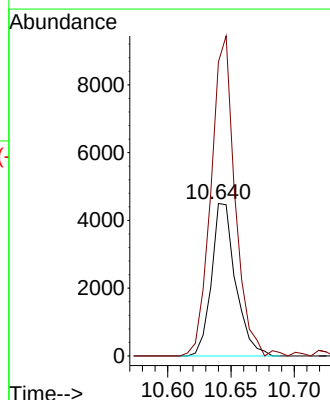
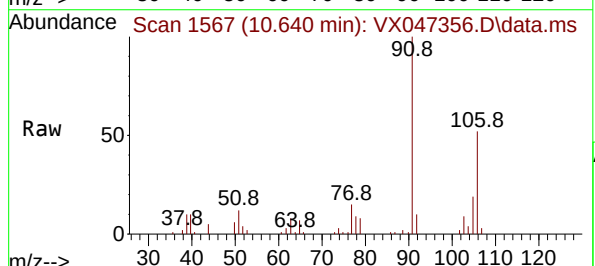
Acq: 15 Aug 2025 12:30

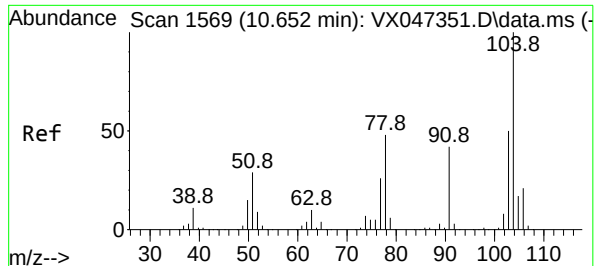
Tgt Ion:106 Resp: 5943

Ion Ratio Lower Upper

106 100

91 210.1 110.6 331.8





#70

Styrene

Concen: 0.733 ug/l

RT: 10.664 min Scan# 1571

Delta R.T. 0.012 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

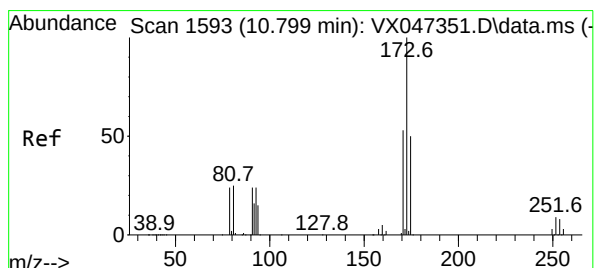
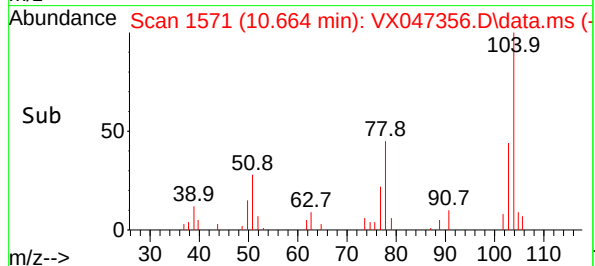
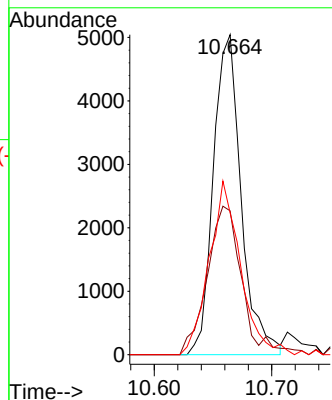
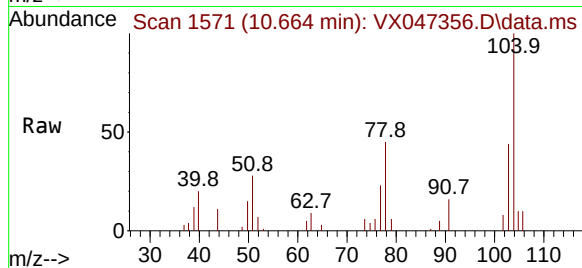
Tgt Ion:	104	Resp:	8294
Ion Ratio	Lower	Upper	
104	100		
78	57.9	41.8	62.8
103	61.2	43.6	65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#71

Bromoform

Concen: 0.799 ug/l

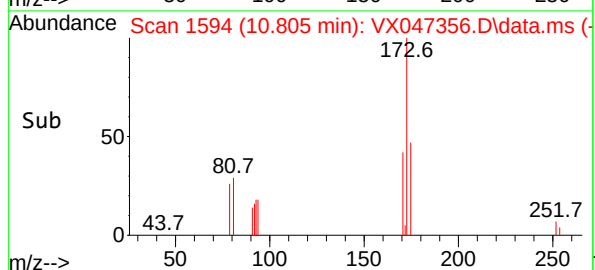
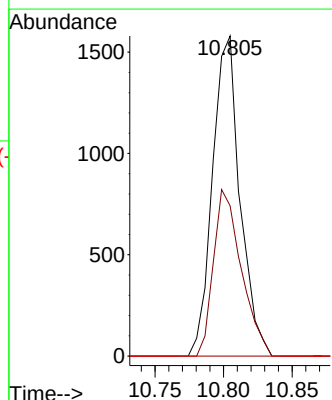
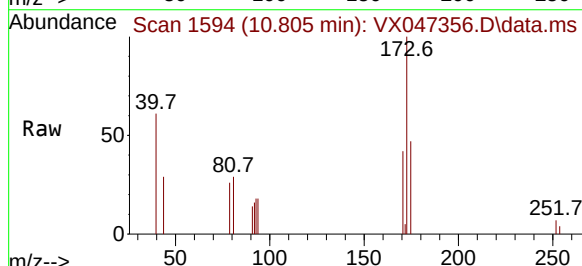
RT: 10.805 min Scan# 1594

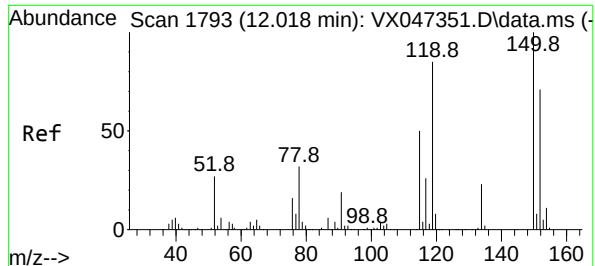
Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:	173	Resp:	2201
Ion Ratio	Lower	Upper	
173	100		
175	52.7	24.4	73.4
254	0.0	0.1	0.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:152 Resp: 22874

Ion Ratio Lower Upper

152 100

115 63.1 44.6 133.8

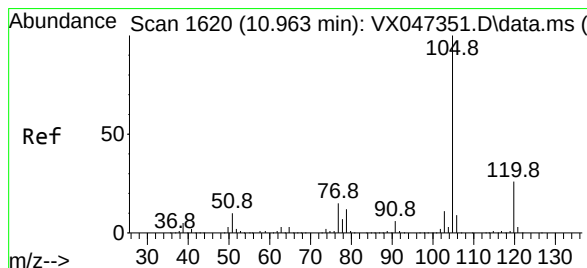
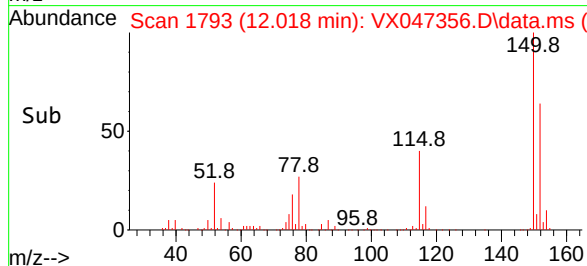
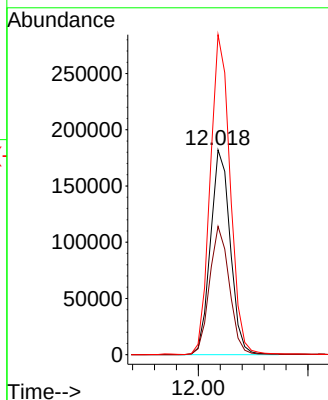
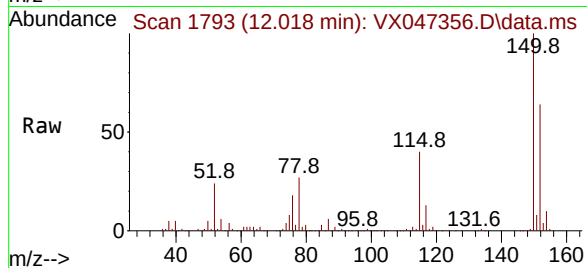
150 157.4 0.0 349.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#73

Isopropylbenzene

Concen: 0.821 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. -0.000 min

Lab File: VX047356.D

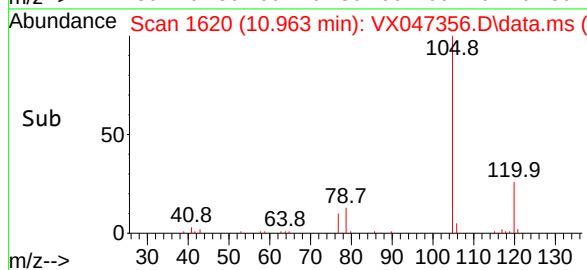
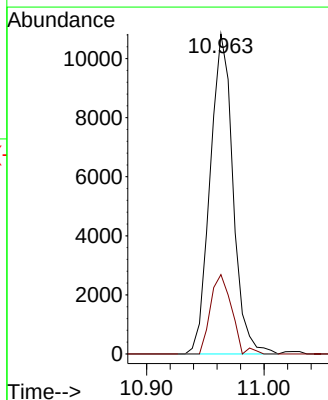
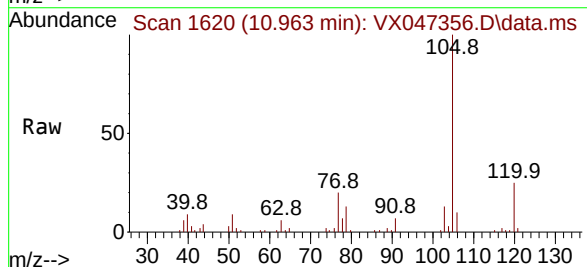
Acq: 15 Aug 2025 12:30

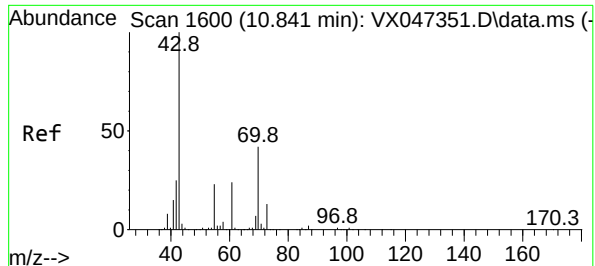
Tgt Ion:105 Resp: 14688

Ion Ratio Lower Upper

105 100

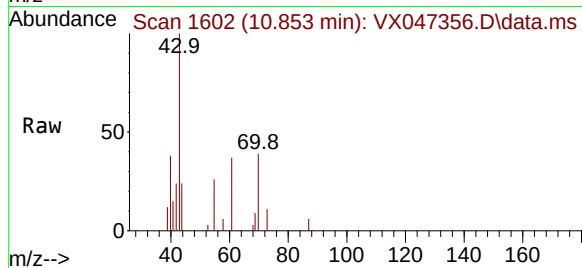
120 22.9 12.9 38.6





#74
N-amy1 acetate
Concen: 0.705 ug/l
RT: 10.853 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

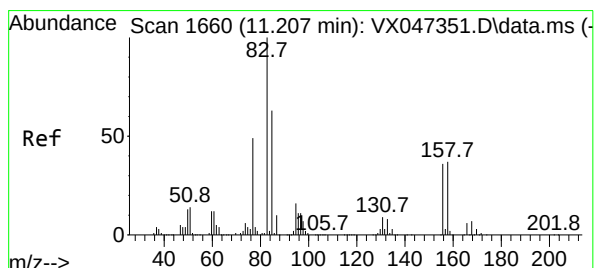
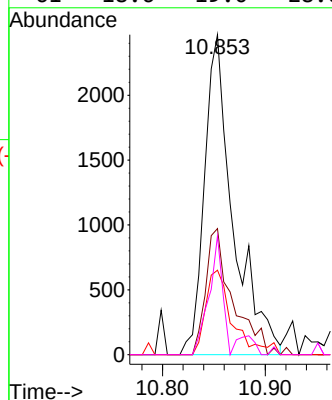
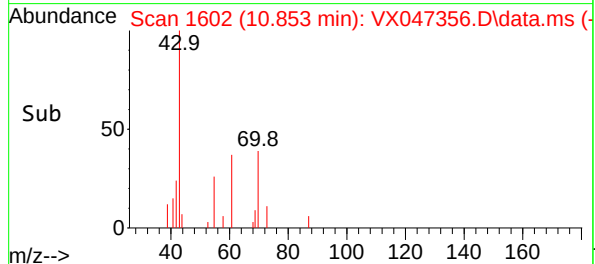
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 4792
Ion Ratio Lower Upper
43 100
70 37.3 33.1 49.7
55 24.5 19.0 28.6
61 18.6 19.0 28.6#

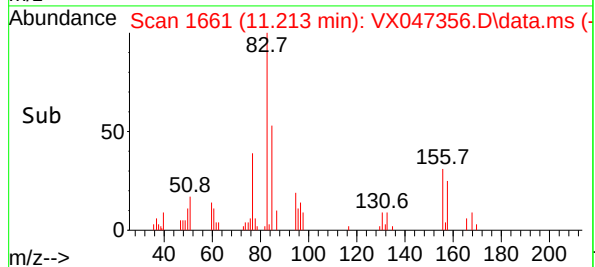
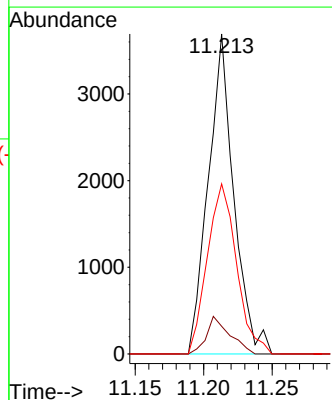
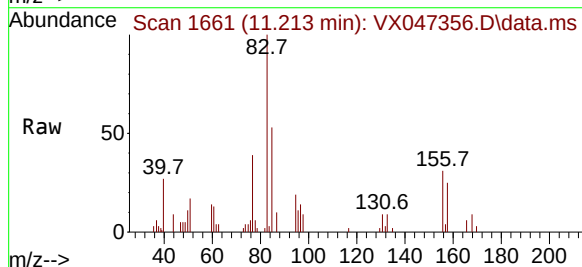
Manual Integrations
APPROVED

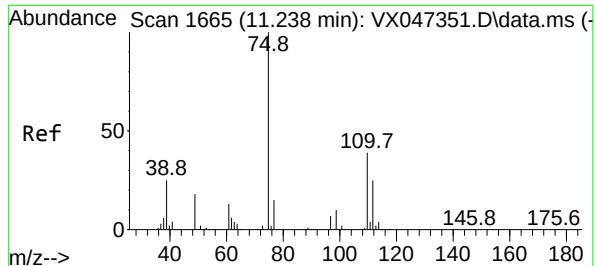
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 0.909 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

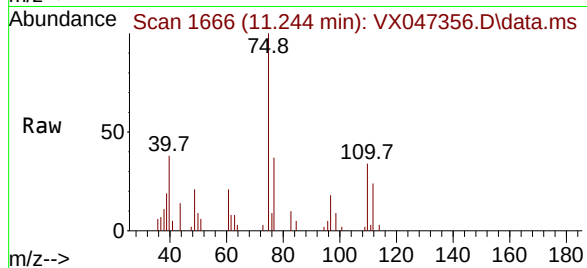
Tgt Ion: 83 Resp: 4778
Ion Ratio Lower Upper
83 100
131 10.7 5.0 15.0
85 60.9 31.7 95.1





#76
1,2,3-Trichloropropane
Concen: 0.892 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

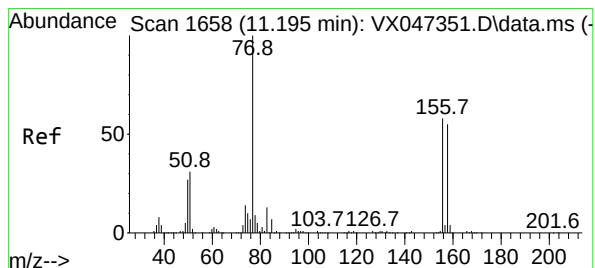
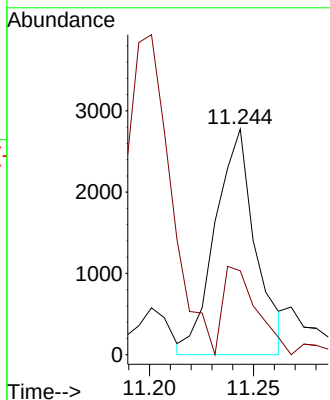
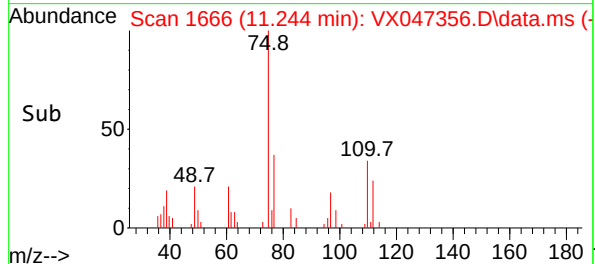
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



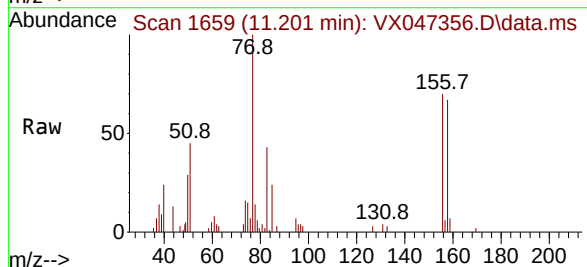
Tgt Ion: 75 Resp: 374
Ion Ratio Lower Upper
75 100
77 32.6 19.4 58.2

Manual Integrations
APPROVED

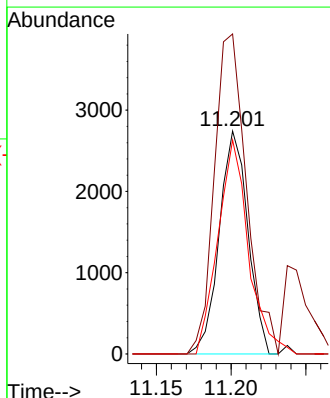
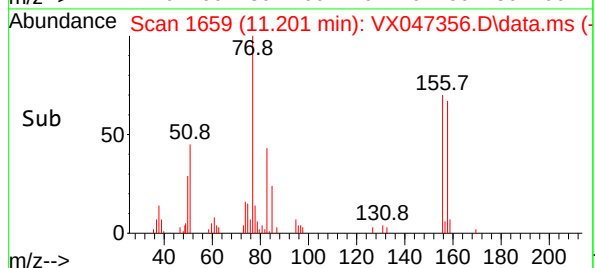
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

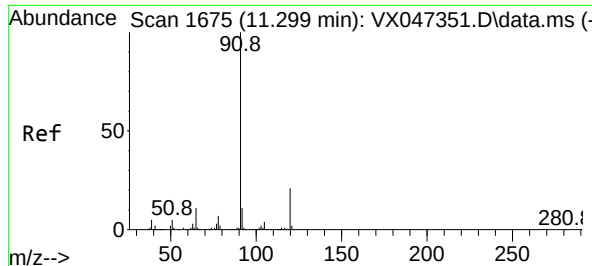


#77
Bromobenzene
Concen: 0.835 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30



Tgt Ion:156 Resp: 3648
Ion Ratio Lower Upper
156 100
77 160.5 86.3 258.9
158 102.7 48.0 144.2





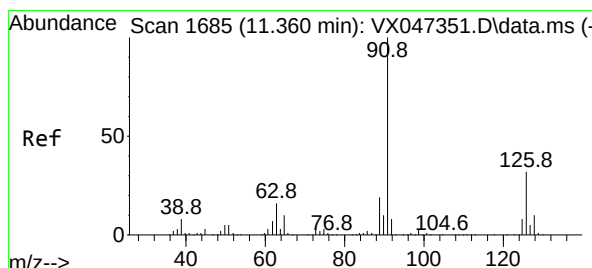
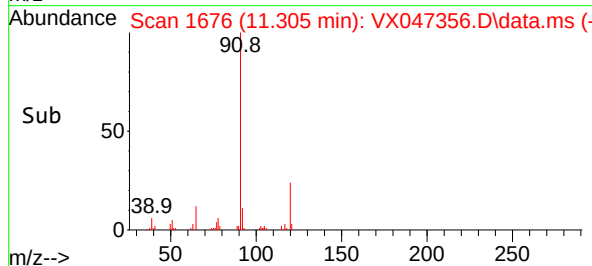
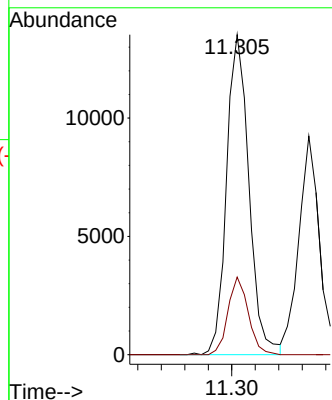
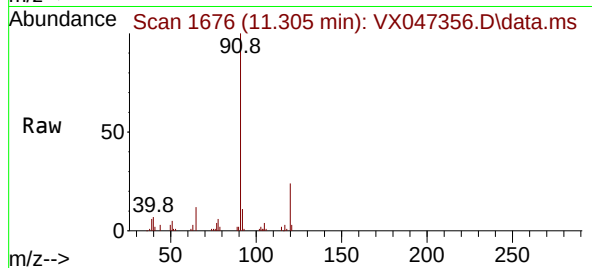
#78
n-propylbenzene
Concen: 0.836 ug/l
RT: 11.305 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 1786
Ion Ratio Lower Upper
91 100
120 22.0 11.0 33.0

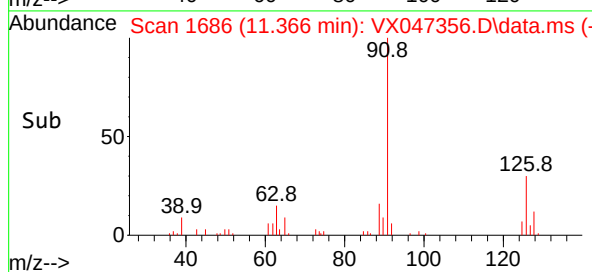
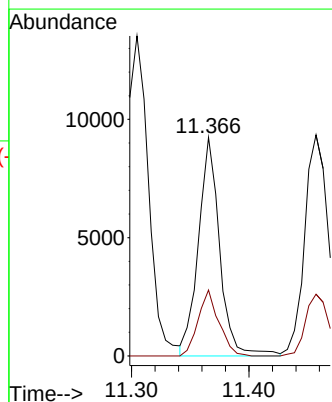
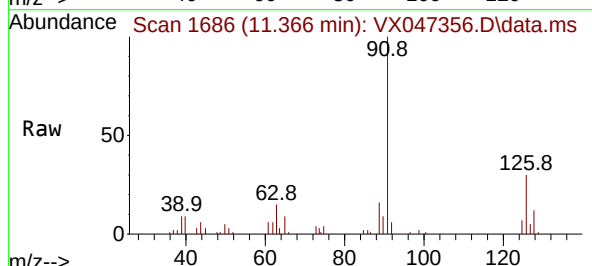
Manual Integrations
APPROVED

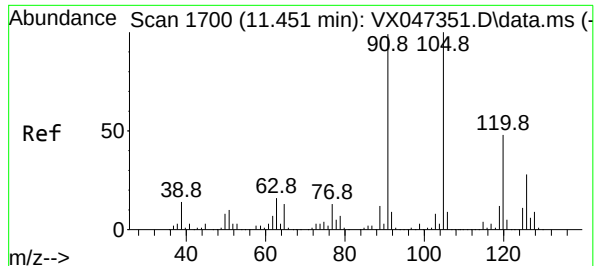
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#79
2-Chlorotoluene
Concen: 0.901 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion: 91 Resp: 11644
Ion Ratio Lower Upper
91 100
126 29.4 16.7 50.1





#80

1,3,5-Trimethylbenzene

Concen: 0.844 ug/l

RT: 11.451 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 1242

Ion Ratio Lower Upper

105 100

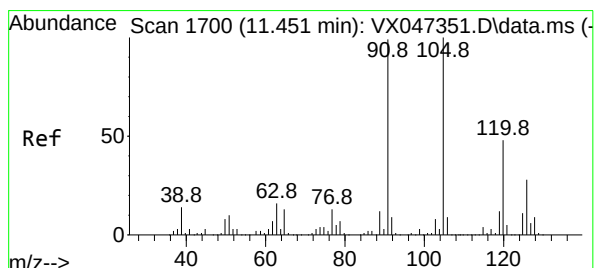
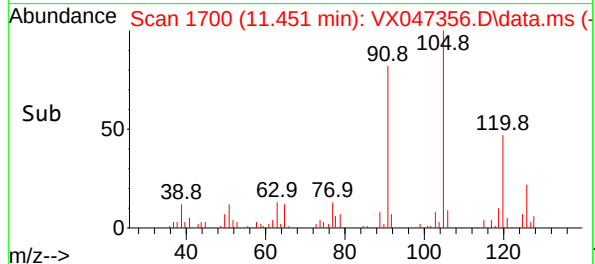
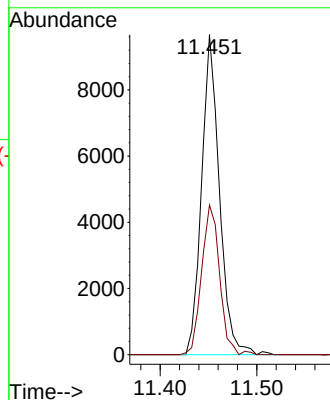
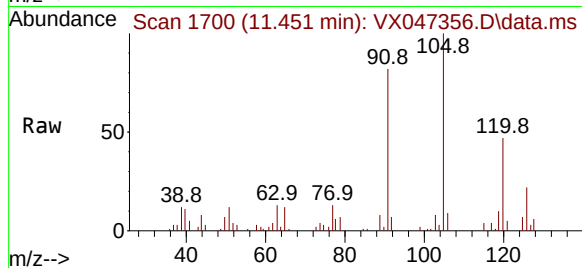
120 47.2 23.9 71.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#82

4-Chlorotoluene

Concen: 0.914 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX047356.D

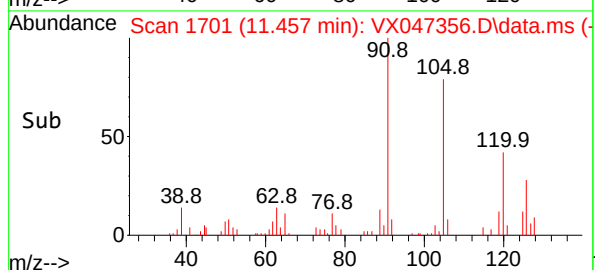
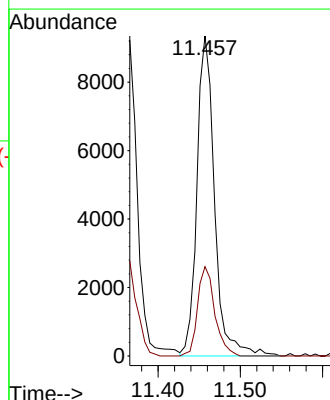
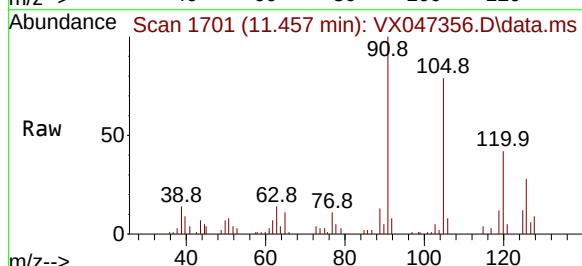
Acq: 15 Aug 2025 12:30

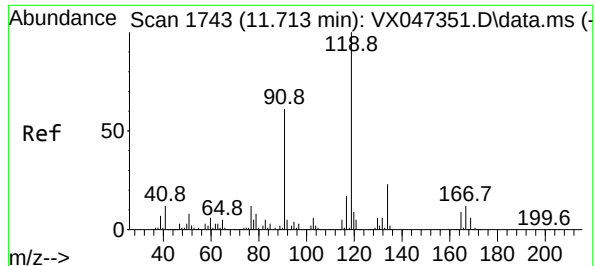
Tgt Ion: 91 Resp: 13922

Ion Ratio Lower Upper

91 100

126 27.2 14.4 43.0





#83

tert-Butylbenzene

Concen: 0.828 ug/l

RT: 11.713 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:119 Resp: 1216

Ion Ratio Lower Upper

119 100

91 58.0 29.1 87.4

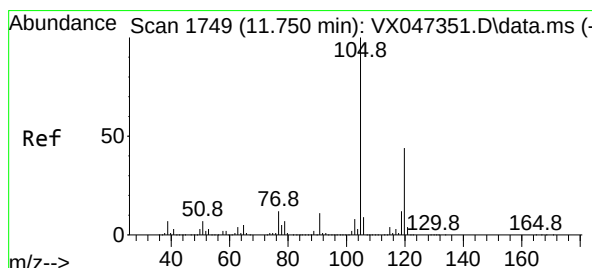
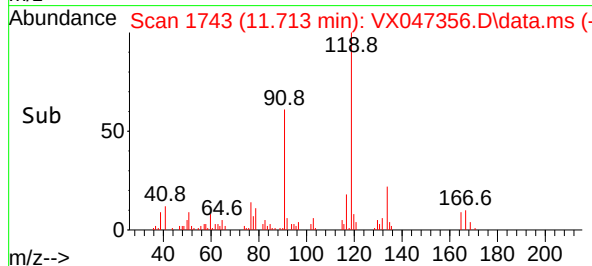
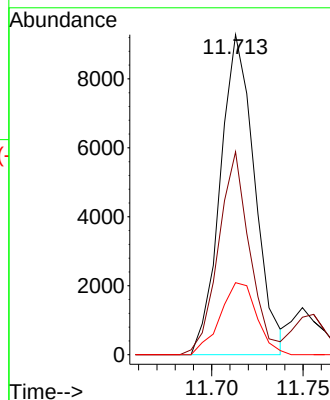
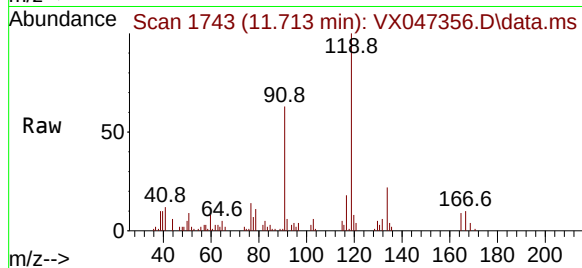
134 24.0 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.781 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX047356.D

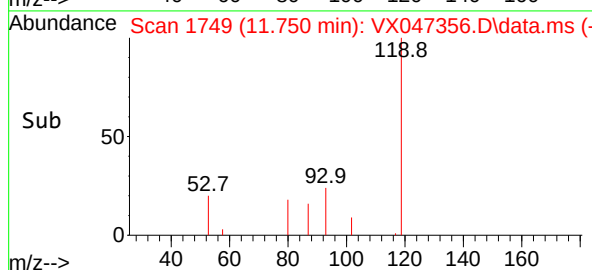
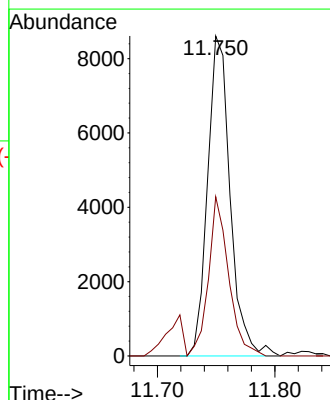
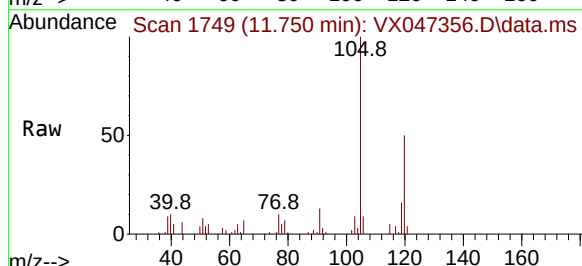
Acq: 15 Aug 2025 12:30

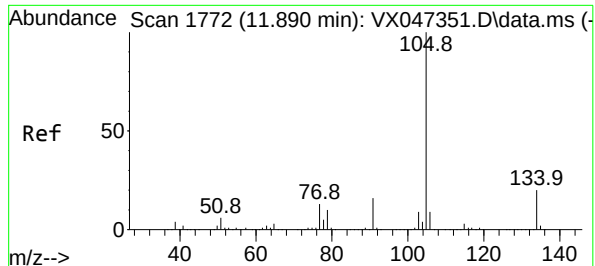
Tgt Ion:105 Resp: 11509

Ion Ratio Lower Upper

105 100

120 44.5 21.9 65.7





#85

sec-Butylbenzene

Concen: 0.822 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 1497

Ion Ratio Lower Upper

105 100

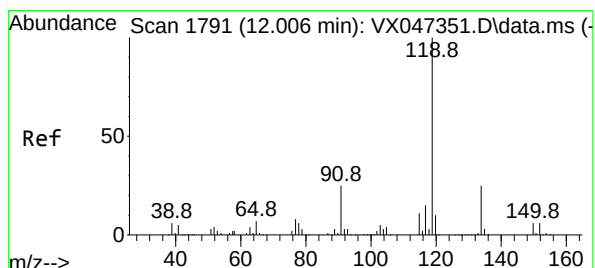
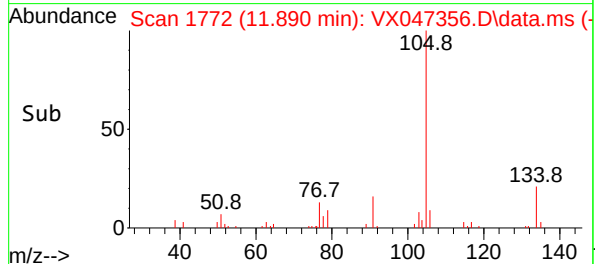
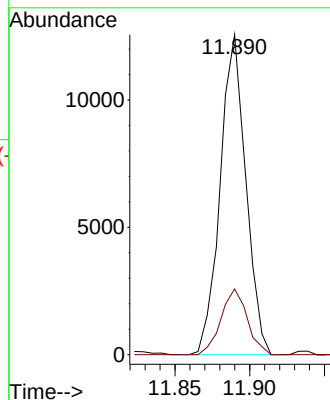
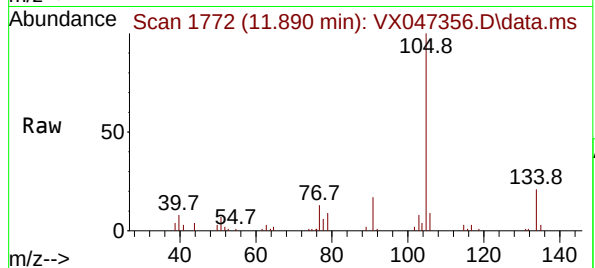
134 21.0 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#86

p-Isopropyltoluene

Concen: 0.879 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

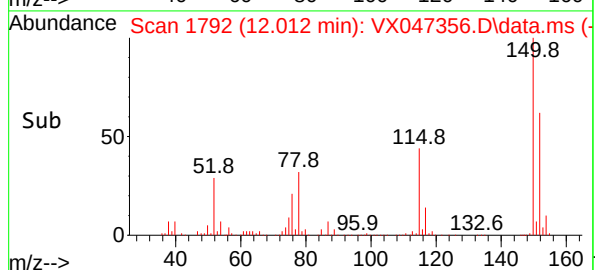
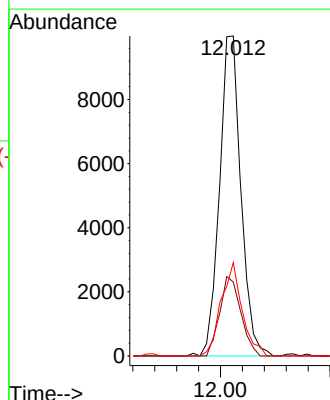
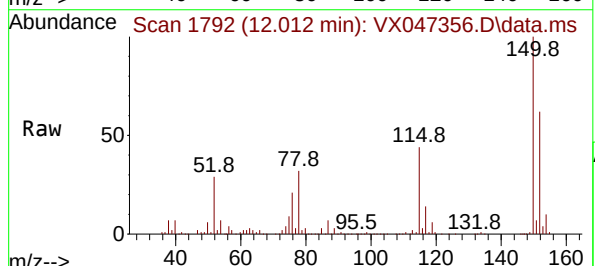
Tgt Ion:119 Resp: 13546

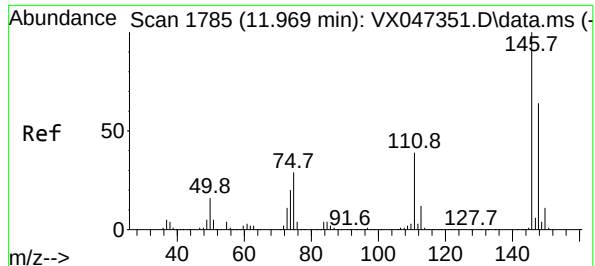
Ion Ratio Lower Upper

119 100

134 24.5 12.8 38.4

91 28.7 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 0.937 ug/l

RT: 11.975 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

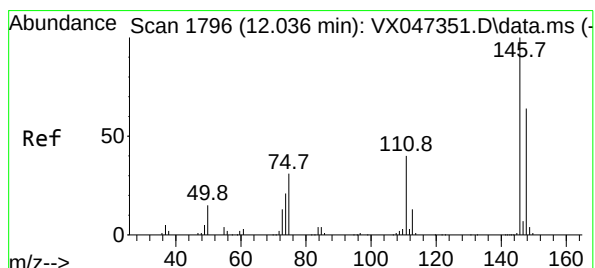
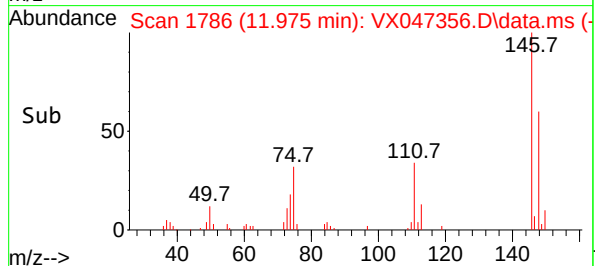
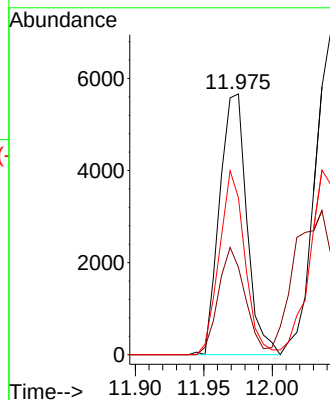
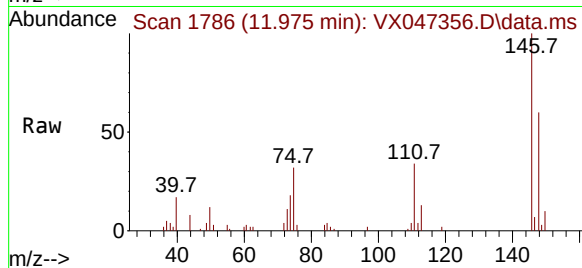
VSTDIC001

Tgt Ion:146	Resp:	782
Ion Ratio	Lower	Upper
146	100	
111	40.1	20.6 61.8
148	66.5	31.9 95.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#88

1,4-Dichlorobenzene

Concen: 1.031 ug/l m

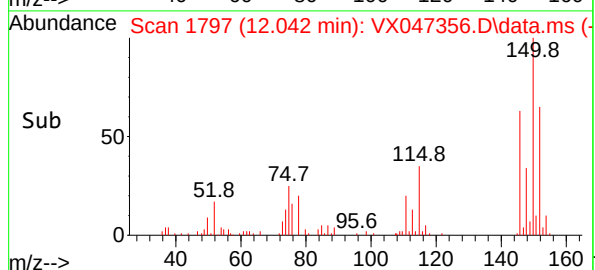
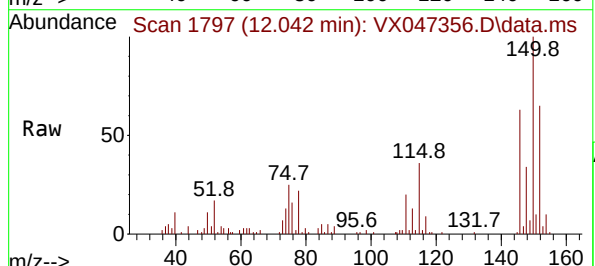
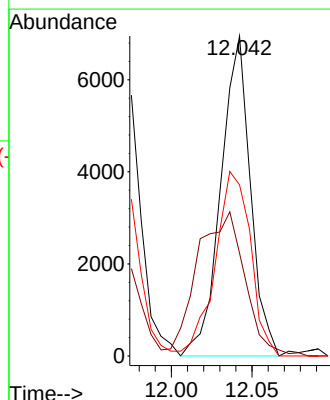
RT: 12.042 min Scan# 1797

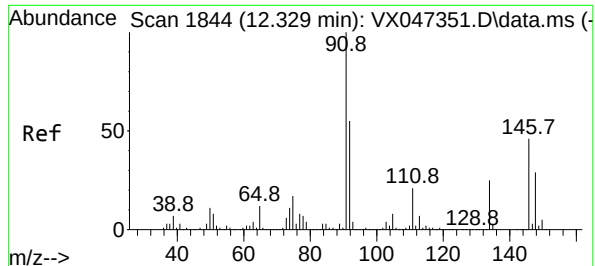
Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Tgt Ion:146	Resp:	8856
Ion Ratio	Lower	Upper
146	100	
111	35.4	20.4 61.2
148	58.7	31.7 95.1





#89

n-Butylbenzene

Concen: 0.899 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

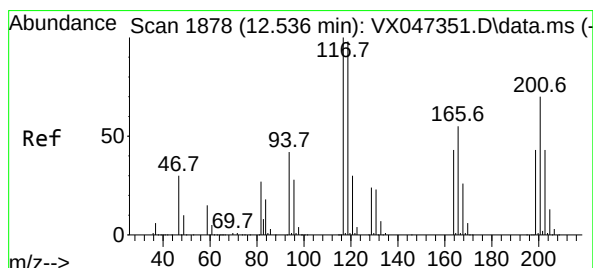
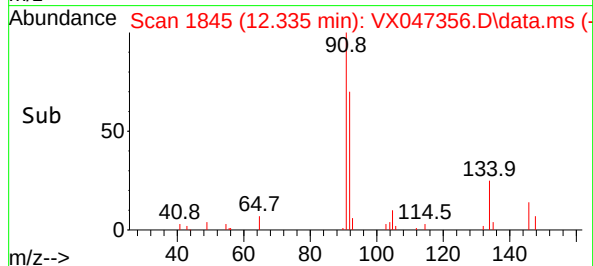
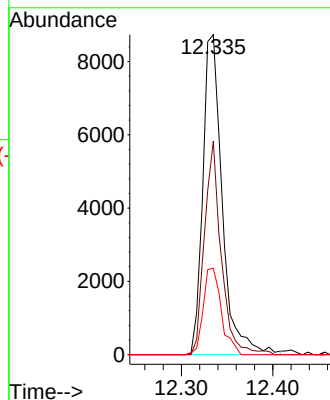
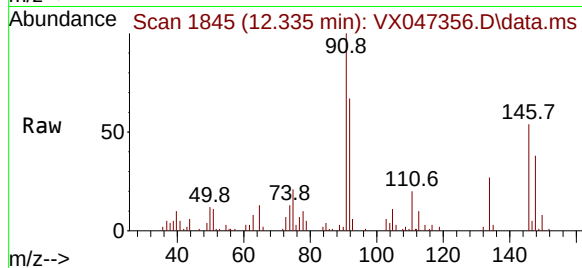
ClientSampleId :

VSTDIC001

Tgt Ion:	91	Resp:	1288
Ion	Ratio	Lower	Upper
91	100		
92	57.4	27.2	81.5
134	25.2	12.6	37.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#90

Hexachloroethane

Concen: 0.895 ug/l

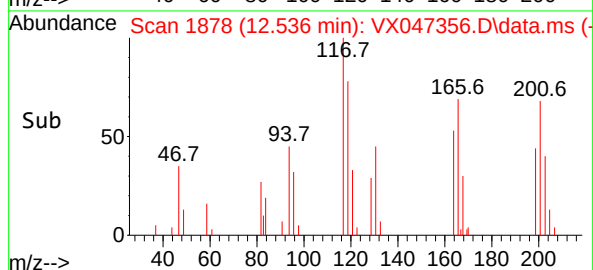
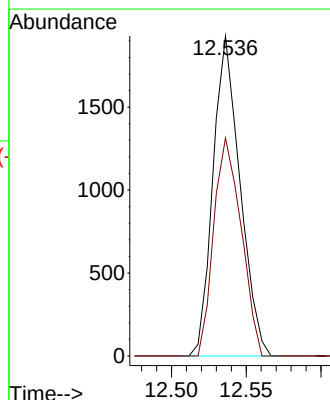
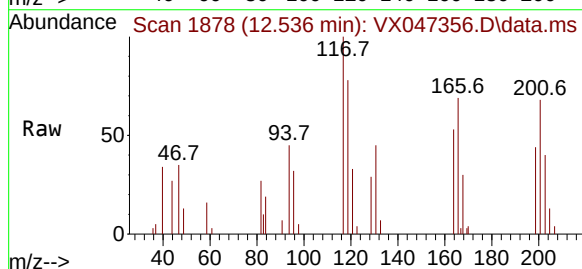
RT: 12.536 min Scan# 1878

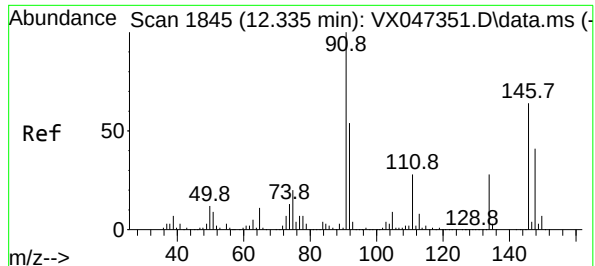
Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

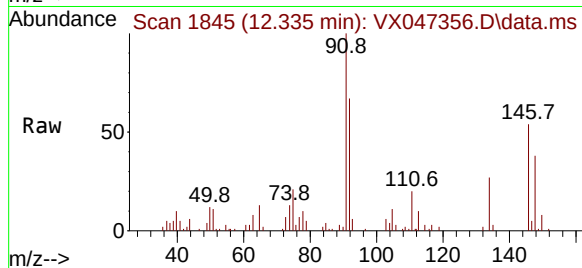
Tgt Ion:	117	Resp:	2421
Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.1	105.3





#91
1,2-Dichlorobenzene
Concen: 0.941 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

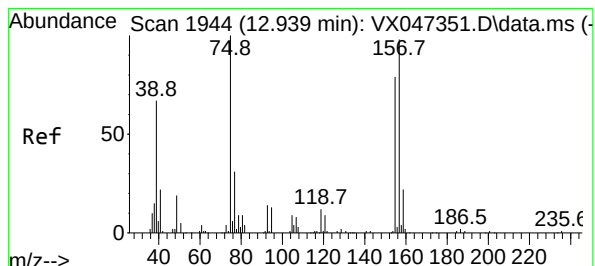
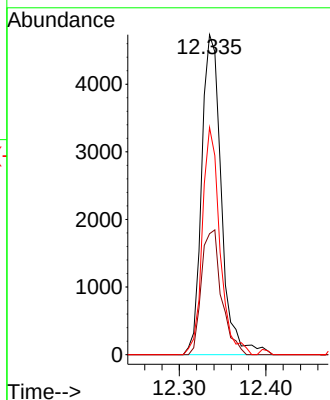
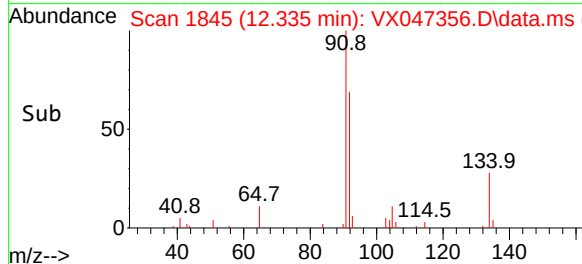
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



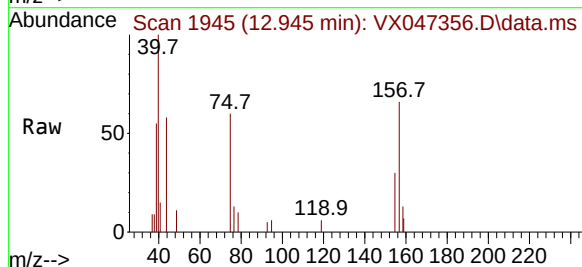
Tgt Ion:146 Resp: 746
Ion Ratio Lower Upper
146 100
111 39.8 22.1 66.1
148 63.5 31.9 95.5

Manual Integrations
APPROVED

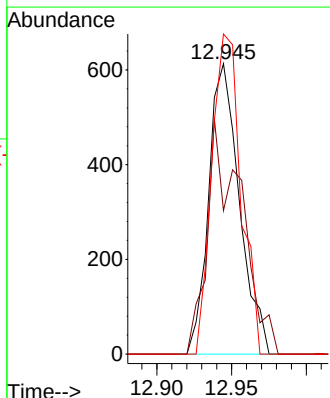
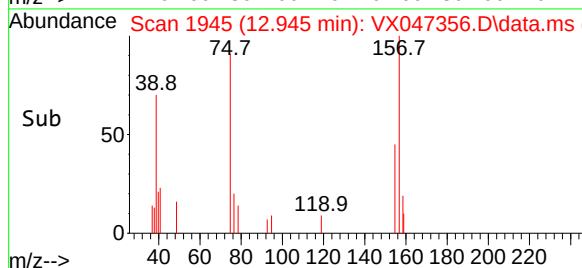
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

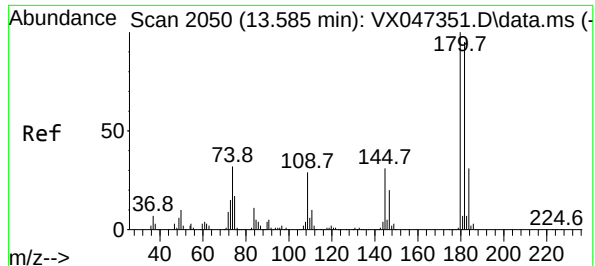


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.862 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30



Tgt Ion: 75 Resp: 876
Ion Ratio Lower Upper
75 100
155 89.8 41.3 123.7
157 104.6 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 0.985 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

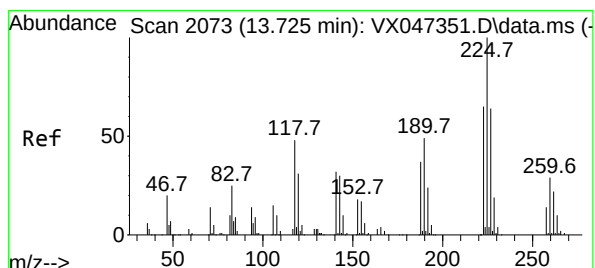
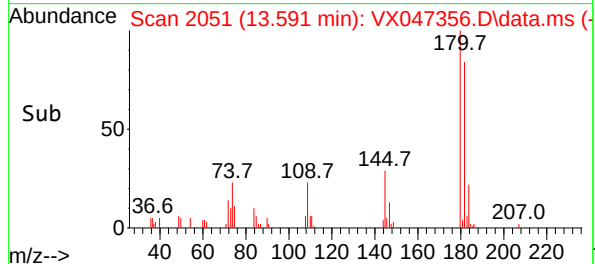
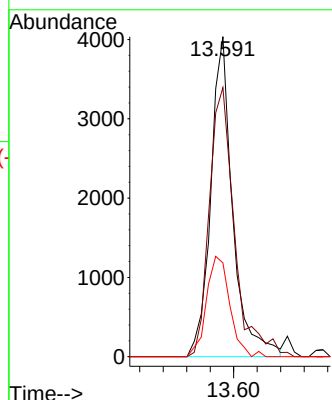
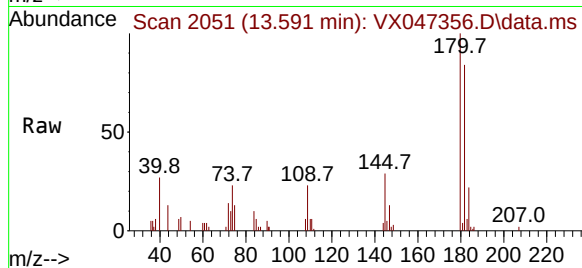
VSTDICC001

Tgt Ion:	180	Resp:	523
Ion Ratio	Lower	Upper	
180	100		
182	96.0	48.1	144.4
145	33.3	16.2	48.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#94

Hexachlorobutadiene

Concen: 1.360 ug/l

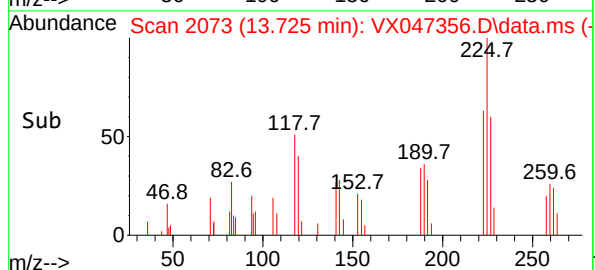
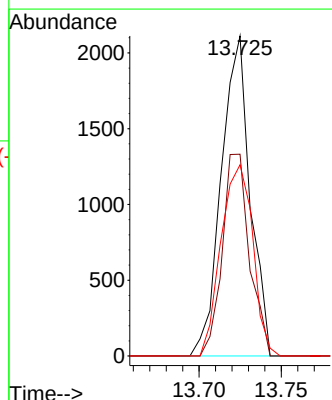
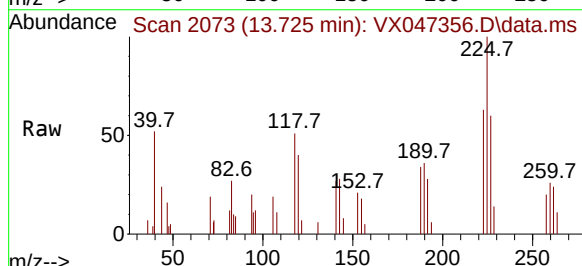
RT: 13.725 min Scan# 2073

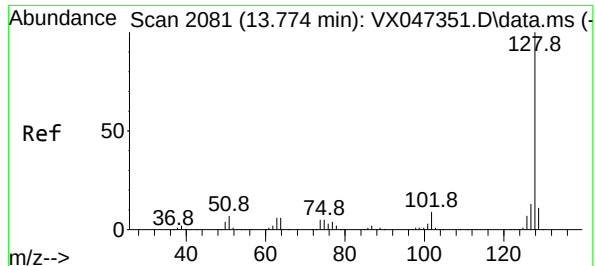
Delta R.T. -0.000 min

Lab File: VX047356.D

Acq: 15 Aug 2025 12:30

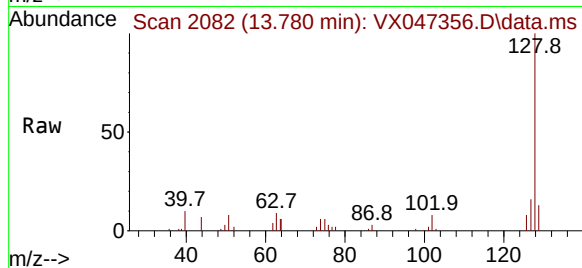
Tgt Ion:	225	Resp:	2573
Ion Ratio	Lower	Upper	
225	100		
223	59.5	32.2	96.6
227	65.8	31.6	95.0





#95
Naphthalene
Concen: 0.805 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

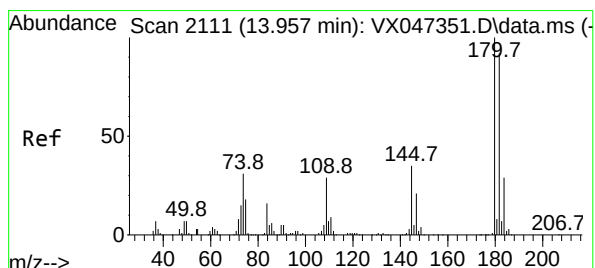
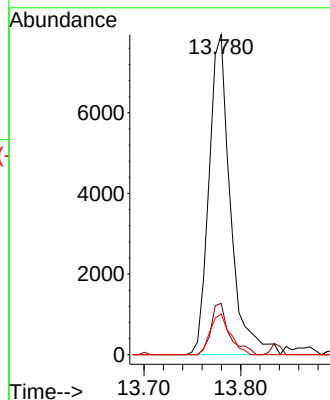
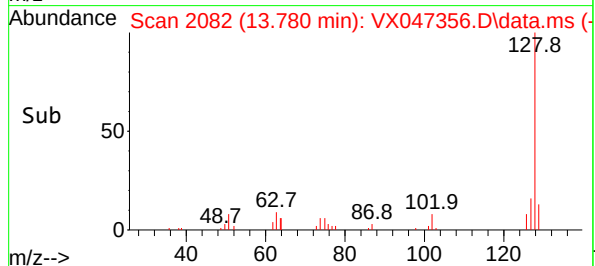
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:128 Resp: 1223
Ion Ratio Lower Upper
128 100
127 13.7 10.1 15.1
129 11.8 8.7 13.1

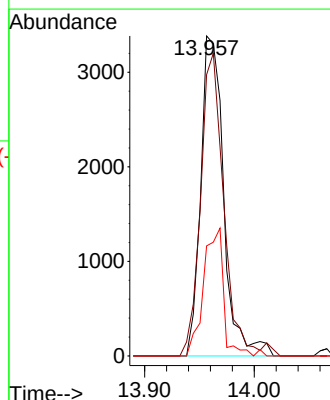
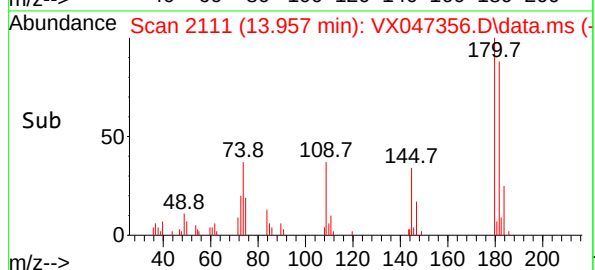
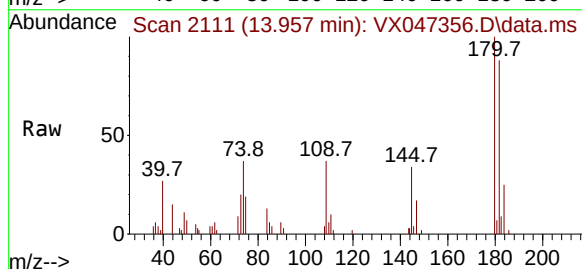
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.982 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX047356.D
Acq: 15 Aug 2025 12:30

Tgt Ion:180 Resp: 4918
Ion Ratio Lower Upper
180 100
182 94.7 48.0 144.2
145 34.9 17.4 52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047357.D
 Acq On : 15 Aug 2025 13:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX081525

Manual Integrations APPROVED

Reviewed By : John Carlone 08/18/2025
 Supervised By : Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 04:22:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	250887	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	427543	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	379004	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	185789	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.958	65	192241	54.750	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 109.500%	
35) Dibromofluoromethane	5.391	113	153967	55.488	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.980%	
50) Toluene-d8	8.647	98	540007	54.448	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 108.900%	
62) 4-Bromofluorobenzene	11.079	95	200280	54.723	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 109.440%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	166246	51.981	ug/l	99
3) Chloromethane	1.313	50	143779	49.973	ug/l	96
4) Vinyl Chloride	1.392	62	183527	50.822	ug/l	97
5) Bromomethane	1.630	94	81779	56.066	ug/l	98
6) Chloroethane	1.703	64	109193	49.421	ug/l	99
7) Trichlorofluoromethane	1.904	101	266531	49.898	ug/l	99
8) Diethyl Ether	2.148	74	94290	50.132	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	155403	50.154	ug/l	99
10) Methyl Iodide	2.465	142	238348	44.887	ug/l	99
11) Tert butyl alcohol	2.959	59	70101	229.494	ug/l	97
12) 1,1-Dichloroethene	2.337	96	158941	50.316	ug/l	99
13) Acrolein	2.245	56	133586	207.171	ug/l	99
14) Allyl chloride	2.678	41	271599	49.503	ug/l	100
15) Acrylonitrile	3.075	53	369146	250.094	ug/l	99
16) Acetone	2.386	43	324930	246.195	ug/l	96
17) Carbon Disulfide	2.526	76	457873	48.034	ug/l	99
18) Methyl Acetate	2.715	43	163394	47.774	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	481187	50.072	ug/l	98
20) Methylene Chloride	2.800	84	173780	49.724	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	165465	49.352	ug/l	97
22) Diisopropyl ether	3.769	45	556979	51.358	ug/l	99
23) Vinyl Acetate	3.727	43	2264555	254.755	ug/l	99
24) 1,1-Dichloroethane	3.617	63	303962	49.586	ug/l	98
25) 2-Butanone	4.562	43	422081	244.186	ug/l	100
26) 2,2-Dichloropropane	4.483	77	232204	50.188	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	193324	49.507	ug/l	98
28) Bromochloromethane	4.903	49	145787	57.153	ug/l	100
29) Tetrahydrofuran	5.019	42	268867	240.659	ug/l	99
30) Chloroform	5.099	83	306888	49.055	ug/l	98
31) Cyclohexane	5.477	56	265960	47.066	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	263954	49.018	ug/l	99
36) 1,1-Dichloropropene	5.702	75	208616	47.627	ug/l	99
37) Ethyl Acetate	4.721	43	214695	47.213	ug/l	99
38) Carbon Tetrachloride	5.684	117	226854	47.393	ug/l	100
39) Methylcyclohexane	7.379	83	257199	47.074	ug/l	96
40) Benzene	6.043	78	638127	48.672	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047357.D
 Acq On : 15 Aug 2025 13:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX081525

Manual Integrations
 APPROVED

Reviewed By :John Carlone 08/18/2025
 Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 04:22:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	93517	48.768	ug/l	97
42) 1,2-Dichloroethane	6.086	62	226201	48.708	ug/l	99
43) Isopropyl Acetate	6.342	43	318400	48.740	ug/l	100
44) Trichloroethene	7.129	130	161053	47.974	ug/l	98
45) 1,2-Dichloropropane	7.427	63	160155	48.760	ug/l	98
46) Dibromomethane	7.580	93	115651	48.500	ug/l	98
47) Bromodichloromethane	7.824	83	237881	48.121	ug/l	100
48) Methyl methacrylate	7.690	41	164810	48.604	ug/l	99
49) 1,4-Dioxane	7.677	88	29362m	890.740	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	916499	243.797	ug/l	99
52) Toluene	8.720	92	394588	48.706	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	218807	50.716	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	243957	49.956	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	148831	48.385	ug/l	98
56) Ethyl methacrylate	9.116	69	227388	50.140	ug/l	100
57) 1,3-Dichloropropane	9.305	76	253108	48.290	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	480379	222.770	ug/l	98
59) 2-Hexanone	9.427	43	630542	242.481	ug/l	99
60) Dibromochloromethane	9.518	129	175911	48.122	ug/l	99
61) 1,2-Dibromoethane	9.610	107	152160	47.971	ug/l	99
64) Tetrachloroethene	9.275	164	131233	47.871	ug/l	98
65) Chlorobenzene	10.079	112	429835	47.724	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	146443	48.099	ug/l	99
67) Ethyl Benzene	10.189	91	756938	48.829	ug/l	99
68) m/p-Xylenes	10.299	106	570536	98.705	ug/l	99
69) o-Xylene	10.640	106	273804	49.223	ug/l	99
70) Styrene	10.652	104	471591	50.176	ug/l	100
71) Bromoform	10.799	173	110810	48.446	ug/l #	99
73) Isopropylbenzene	10.957	105	718690	49.432	ug/l	100
74) N-amyl acetate	10.841	43	277245	50.217	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	205267	48.087	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	163259m	47.911	ug/l	
77) Bromobenzene	11.195	156	172064	48.465	ug/l	99
78) n-propylbenzene	11.299	91	856923	49.351	ug/l	99
79) 2-Chlorotoluene	11.360	91	506366	48.241	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	586315	49.013	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	32392	42.686	ug/l	99
82) 4-Chlorotoluene	11.451	91	592542	47.889	ug/l	99
83) tert-Butylbenzene	11.713	119	594831	49.841	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	595697	49.796	ug/l	99
85) sec-Butylbenzene	11.890	105	732328	49.507	ug/l	100
86) p-Isopropyltoluene	12.006	119	617508	49.332	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	325055	47.926	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	326132	46.752	ug/l	100
89) n-Butylbenzene	12.329	91	576963	49.556	ug/l	99
90) Hexachloroethane	12.536	117	107051	48.749	ug/l	99
91) 1,2-Dichlorobenzene	12.329	146	304391	47.283	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	38911	47.135	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	206837	47.926	ug/l	98
94) Hexachlorobutadiene	13.725	225	66005	42.967	ug/l	98
95) Naphthalene	13.774	128	604650	49.026	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	194540	47.822	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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\VX081525\
 Data File : VX047357.D
 Acq On : 15 Aug 2025 13:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

ICVVX081525

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/18/2025

Supervised By : Mahesh Dadoda 08/19/2025

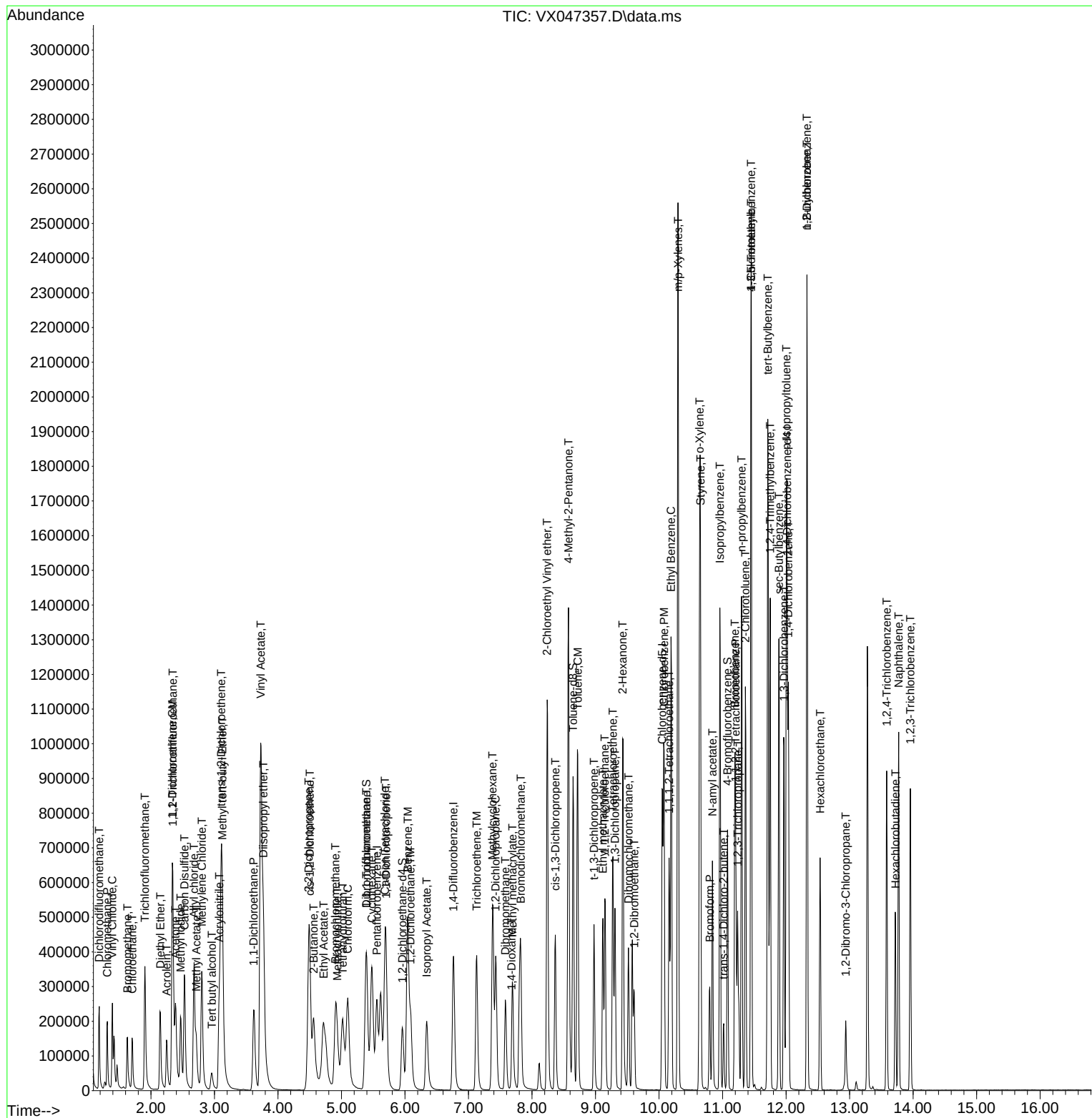
Quant Time: Aug 18 04:22:28 2025

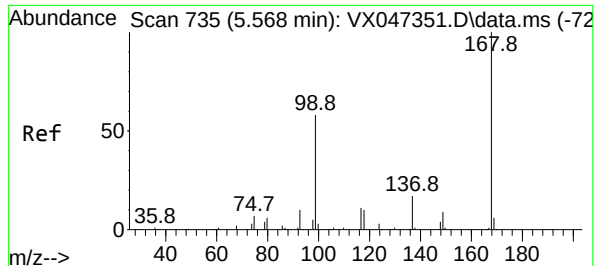
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M

Quant Title : SW846 8260

QLast Update : Mon Aug 18 04:18:28 2025

Response via : Initial Calibration





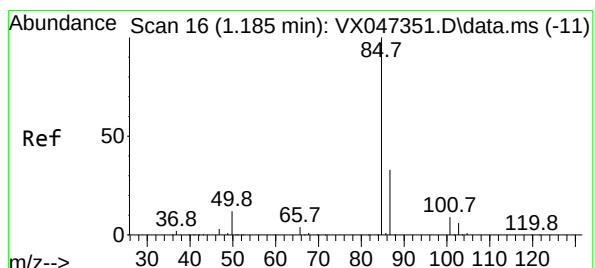
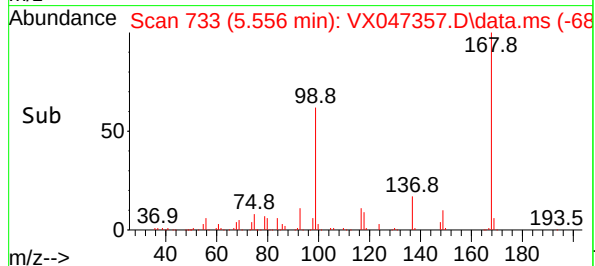
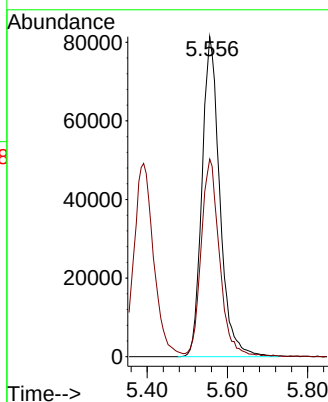
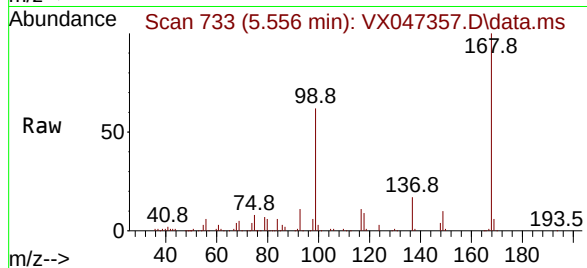
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVX081525

Tgt Ion:168 Resp: 25088
Ion Ratio Lower Upper
168 100
99 61.5 47.9 71.9

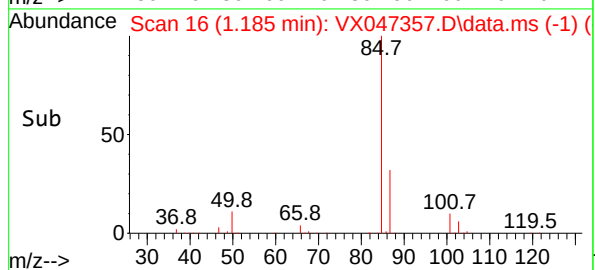
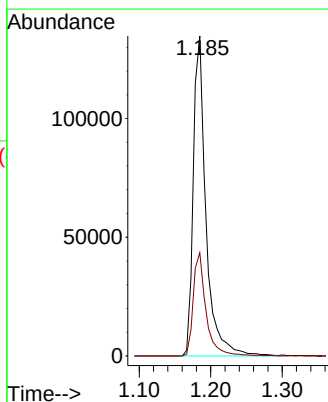
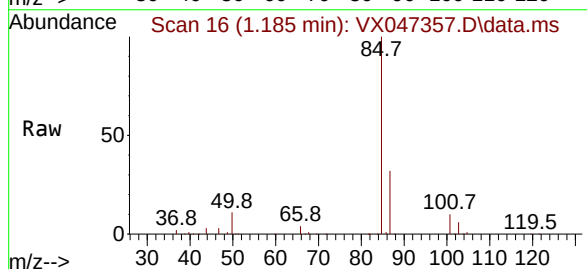
Manual Integrations
APPROVED

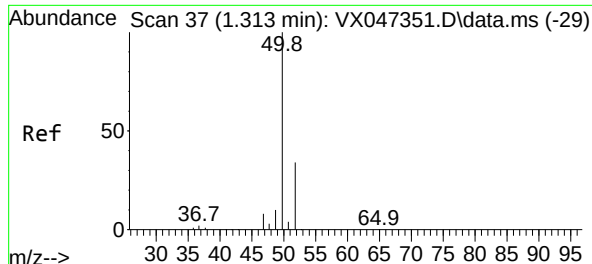
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#2
Dichlorodifluoromethane
Concen: 51.981 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 85 Resp: 166246
Ion Ratio Lower Upper
85 100
87 32.3 16.4 49.1





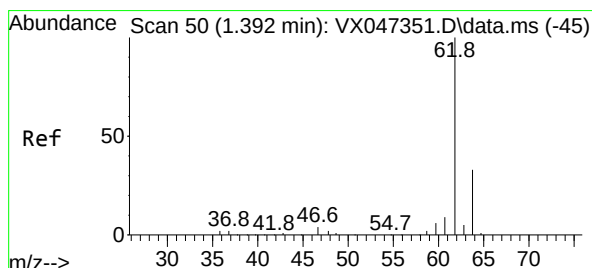
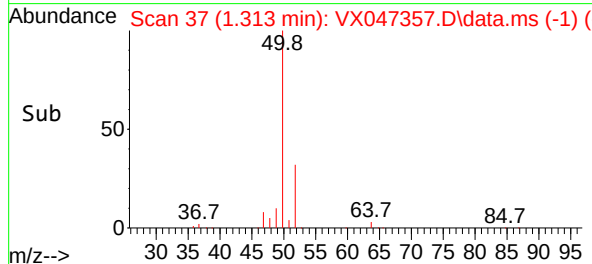
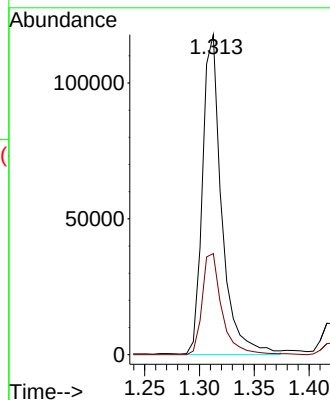
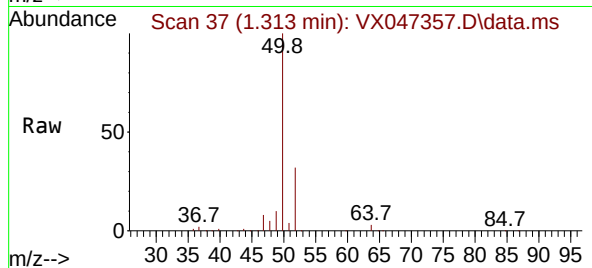
#3
Chloromethane
Concen: 49.973 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion: 50 Resp: 143779
Ion Ratio Lower Upper
50 100
52 31.7 27.0 40.4

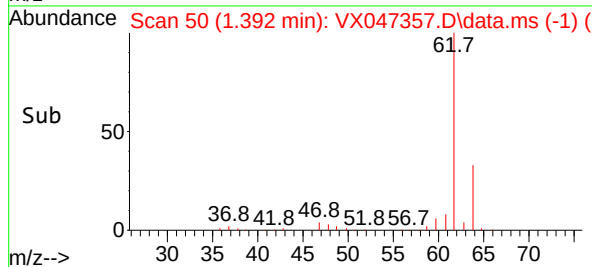
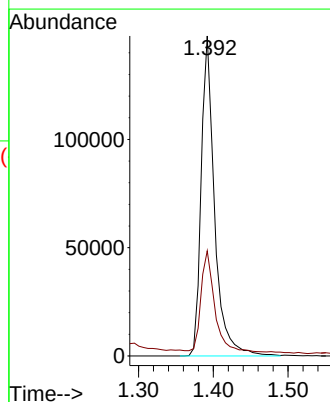
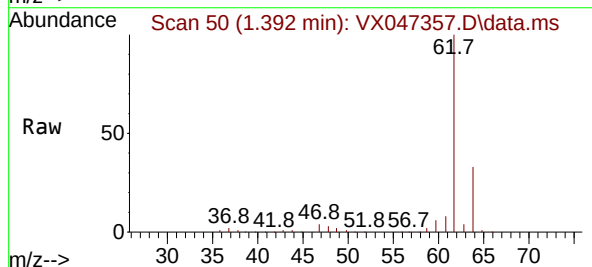
Manual Integrations
APPROVED

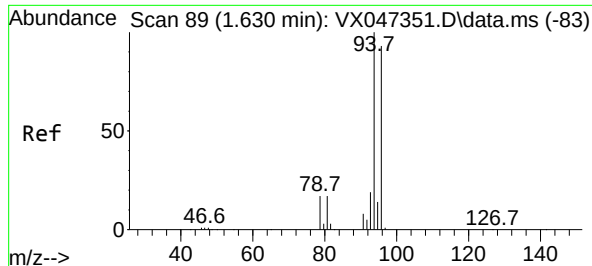
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#4
Vinyl Chloride
Concen: 50.822 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 62 Resp: 183527
Ion Ratio Lower Upper
62 100
64 31.6 26.5 39.7





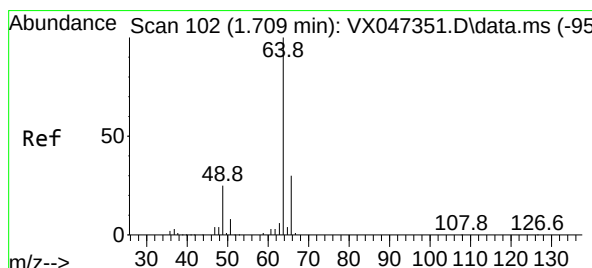
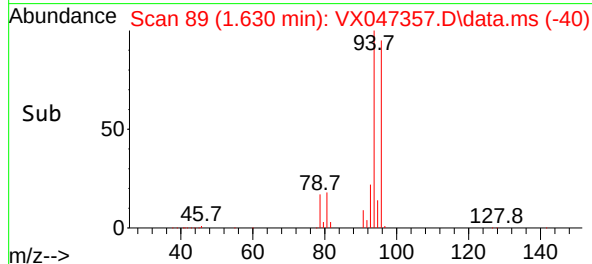
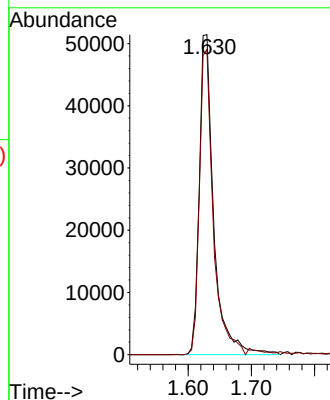
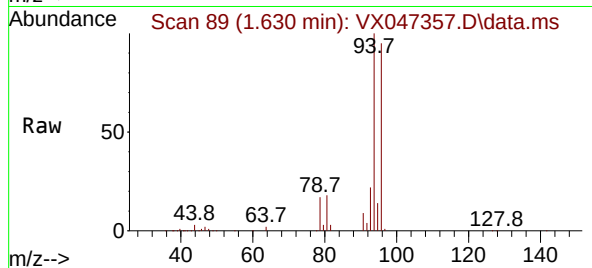
#5
Bromomethane
Concen: 56.066 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
Client Sample Id :
ICVVX081525

Tgt Ion: 94 Resp: 81779
Ion Ratio Lower Upper
94 100
96 95.3 74.7 112.1

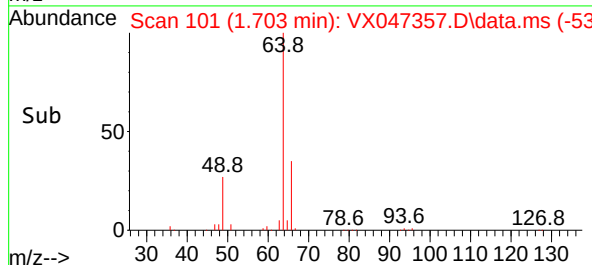
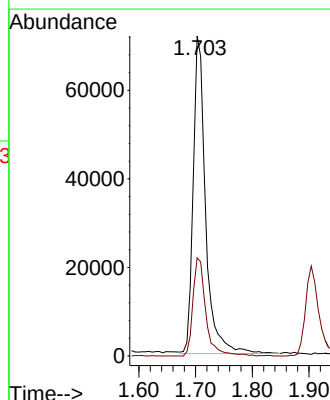
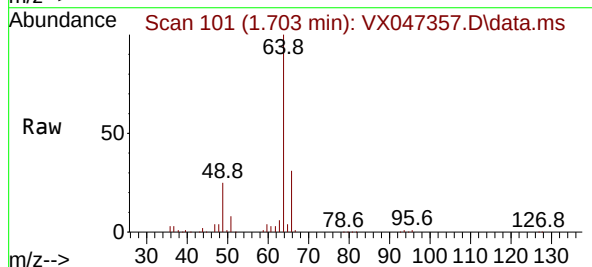
Manual Integrations
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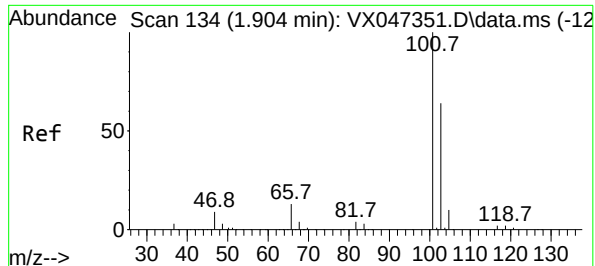
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#6
Chloroethane
Concen: 49.421 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 64 Resp: 109193
Ion Ratio Lower Upper
64 100
66 30.9 24.4 36.6





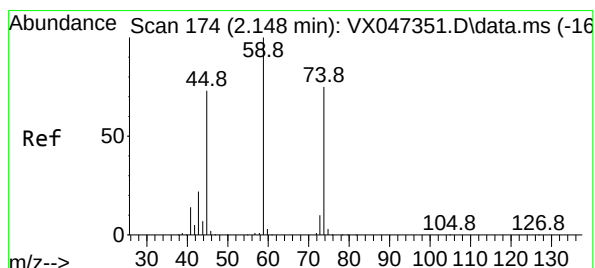
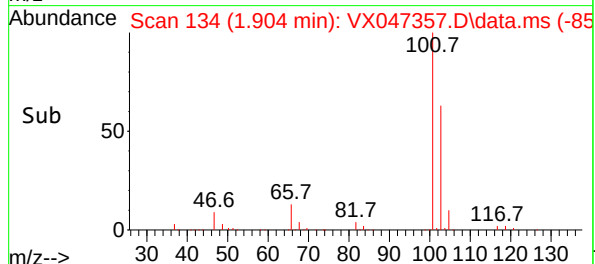
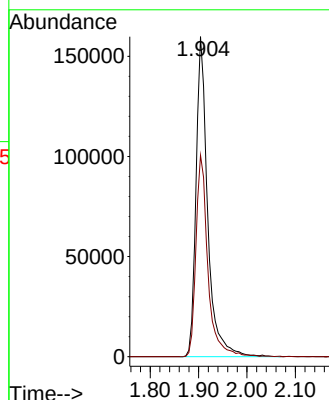
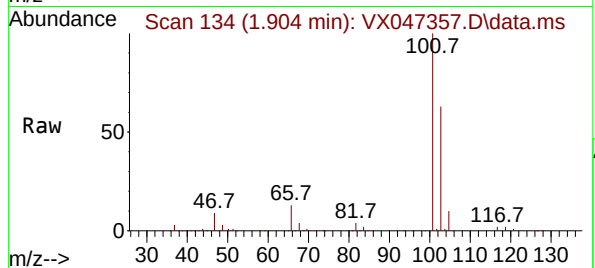
#7
Trichlorofluoromethane
Concen: 49.898 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion:101 Resp: 26653
Ion Ratio Lower Upper
101 100
103 62.9 50.9 76.3

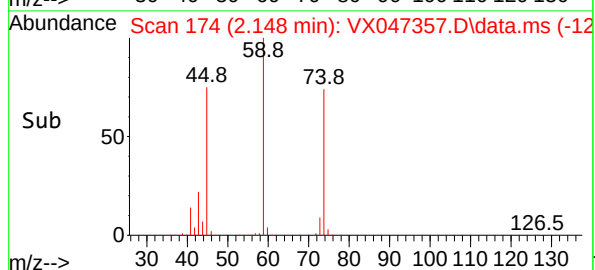
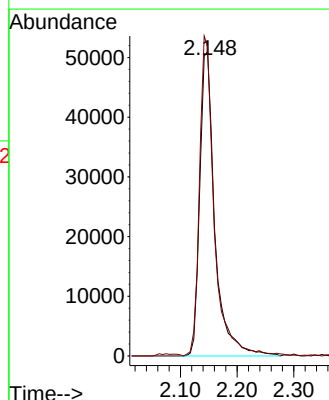
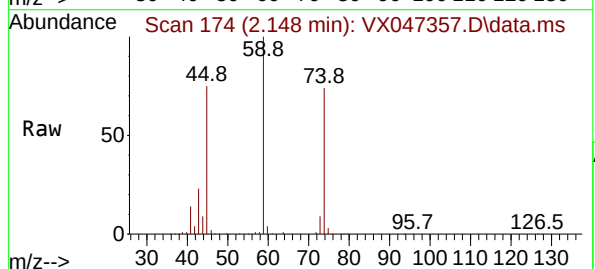
Manual Integrations
APPROVED

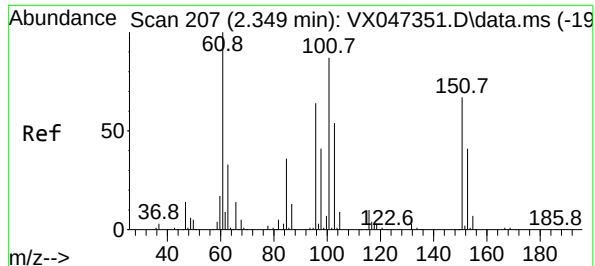
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#8
Diethyl Ether
Concen: 50.132 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 74 Resp: 94290
Ion Ratio Lower Upper
74 100
45 102.7 51.3 154.0





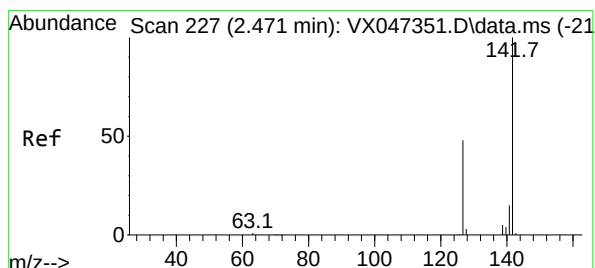
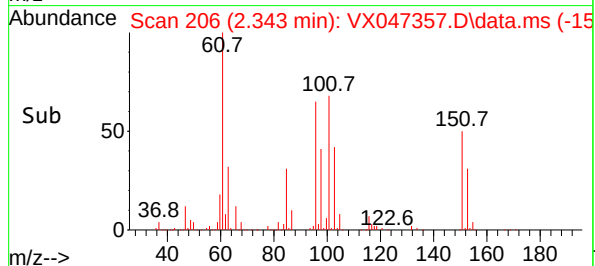
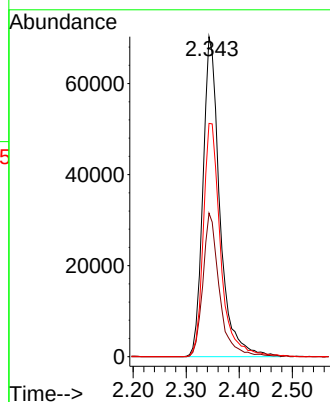
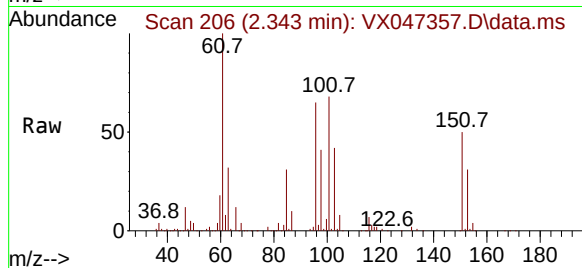
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.154 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion:101 Resp: 15540
Ion Ratio Lower Upper
101 100
85 44.0 34.3 51.5
151 74.8 59.2 88.8

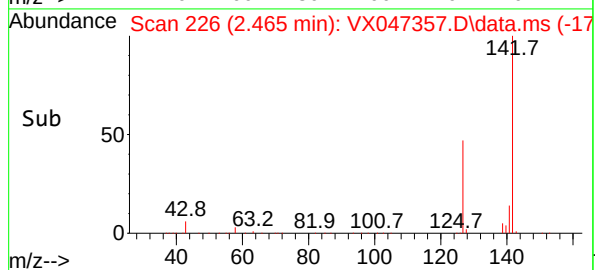
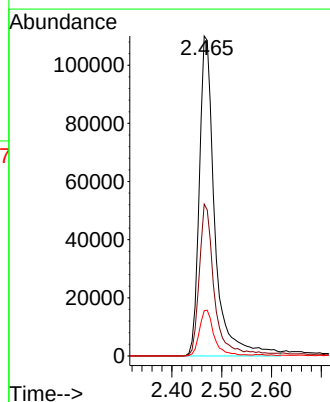
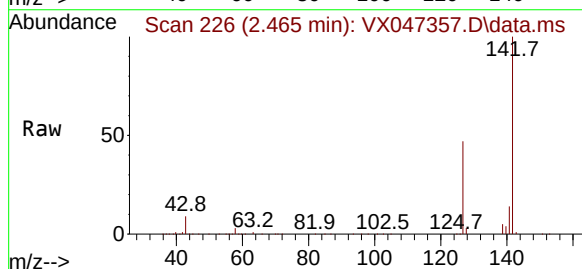
Manual Integrations
APPROVED

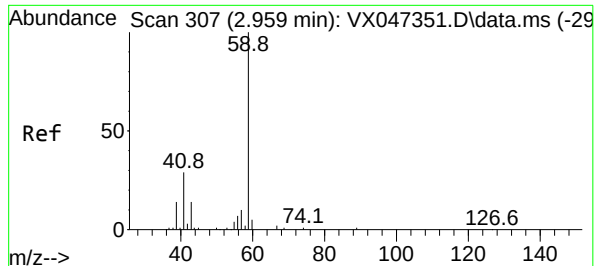
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#10
Methyl Iodide
Concen: 44.887 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion:142 Resp: 238348
Ion Ratio Lower Upper
142 100
127 46.3 36.1 54.1
141 13.8 11.1 16.7





#11

Tert butyl alcohol

Concen: 229.494 ug/l

RT: 2.959 min Scan# 307

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 59 Resp: 7010

Ion Ratio Lower Upper

59 100

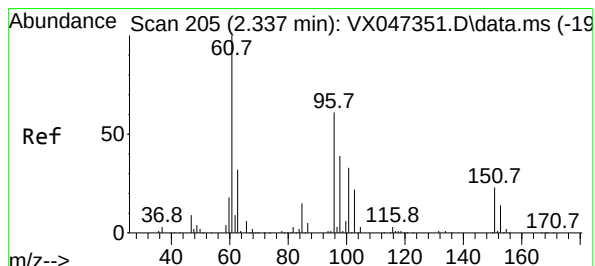
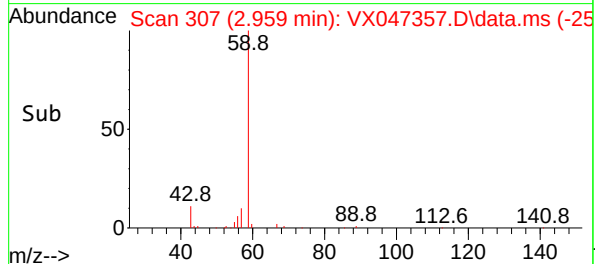
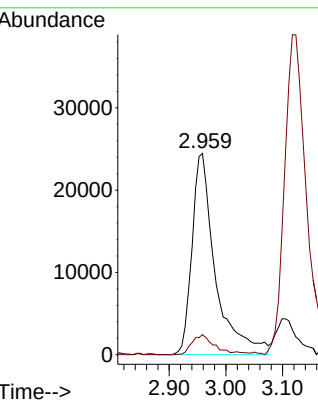
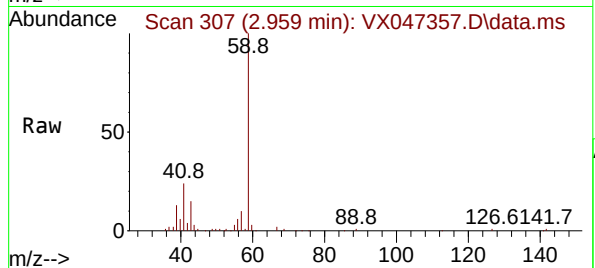
57 9.3 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#12

1,1-Dichloroethene

Concen: 50.316 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

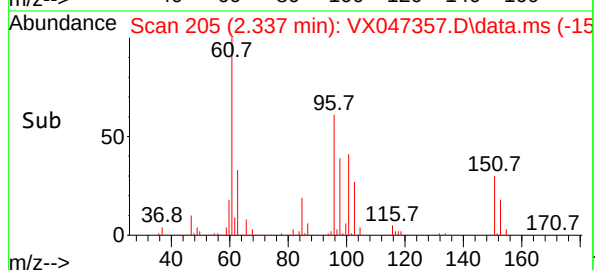
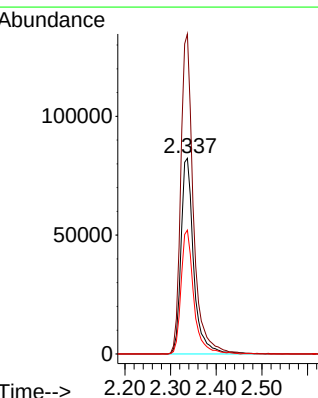
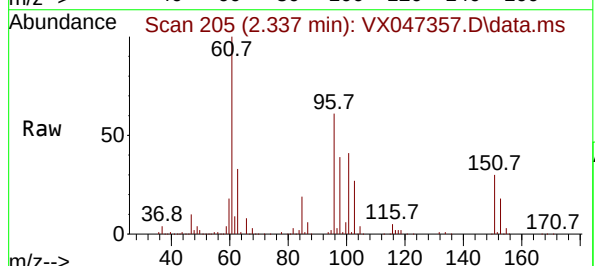
Tgt Ion: 96 Resp: 158941

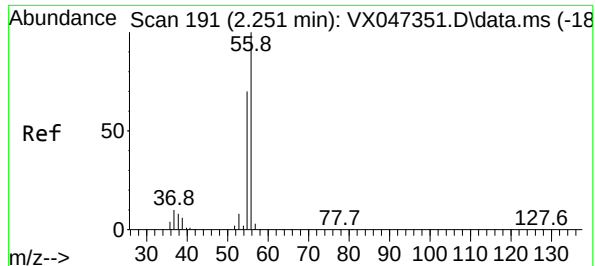
Ion Ratio Lower Upper

96 100

61 163.6 132.2 198.2

98 63.3 51.2 76.8





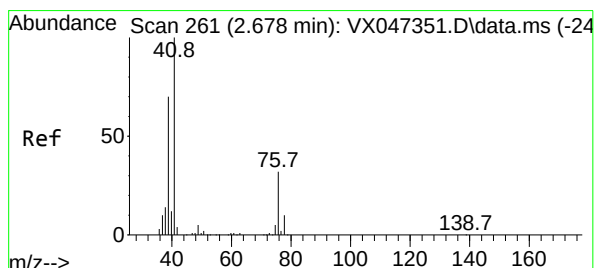
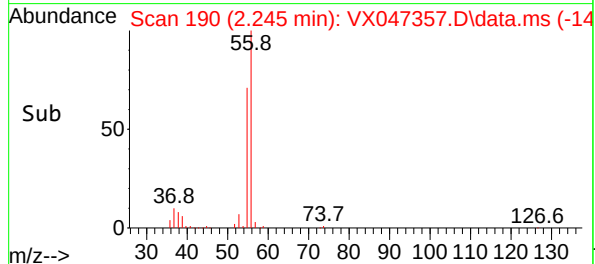
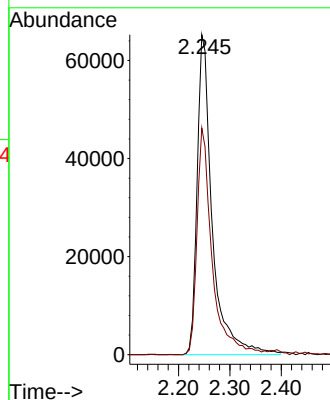
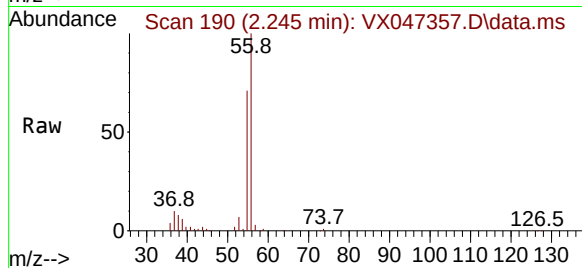
#13
Acrolein
Concen: 207.171 ug/l
RT: 2.245 min Scan# 191
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion: 56 Resp: 133580
Ion Ratio Lower Upper
56 100
55 70.6 55.5 83.3

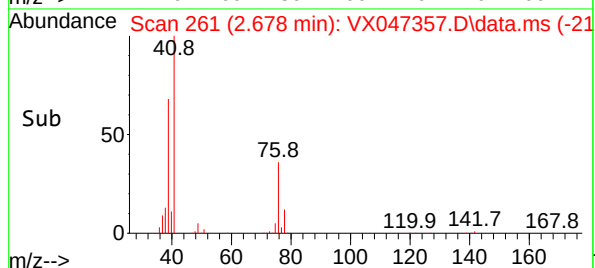
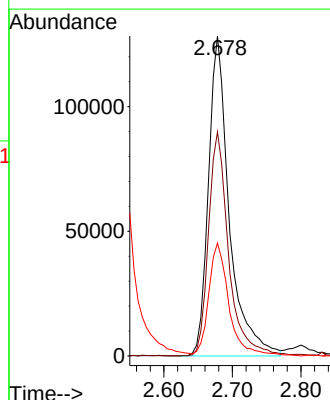
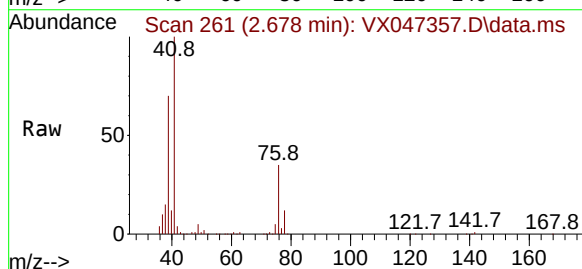
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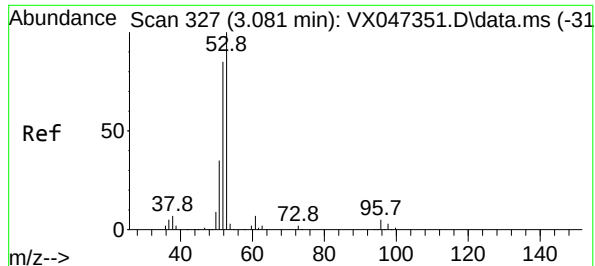
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#14
Allyl chloride
Concen: 49.503 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 41 Resp: 271599
Ion Ratio Lower Upper
41 100
39 67.9 54.6 81.8
76 34.3 27.6 41.4





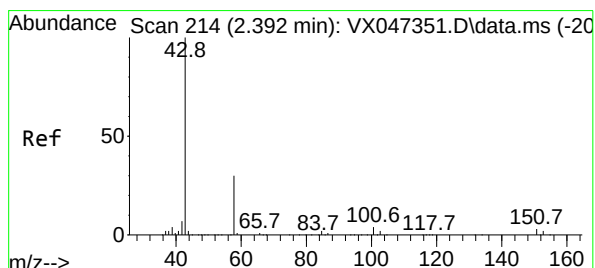
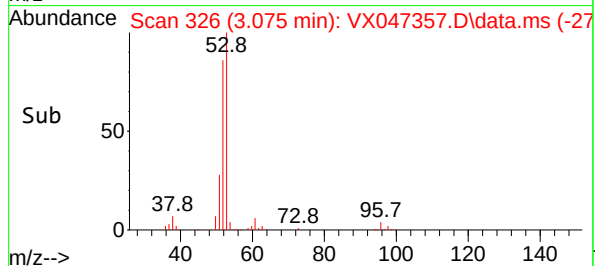
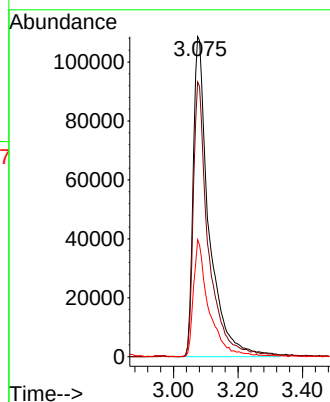
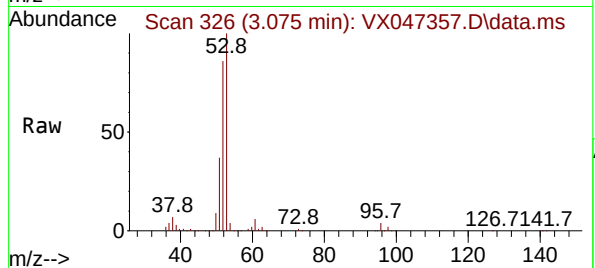
#15
Acrylonitrile
Concen: 250.094 ug/l
RT: 3.075 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion: 53 Resp: 369140
Ion Ratio Lower Upper
53 100
52 81.4 65.8 98.6
51 36.0 28.2 42.2

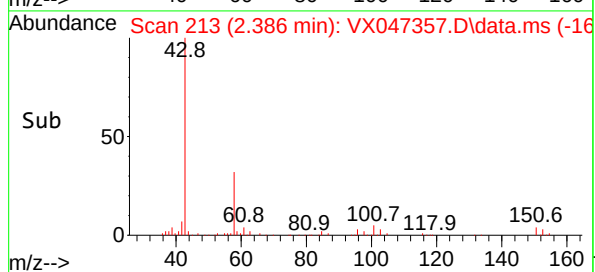
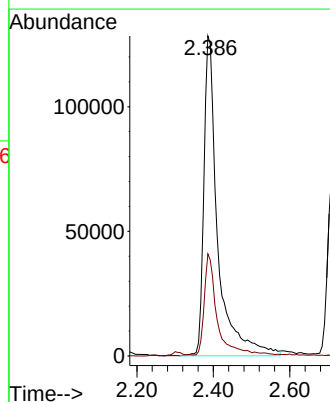
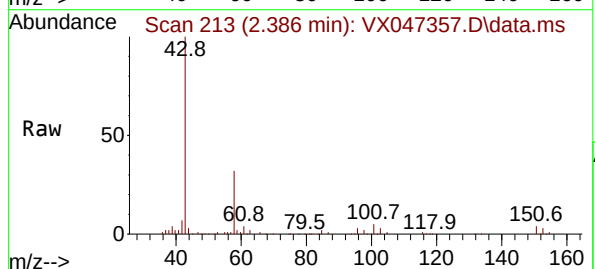
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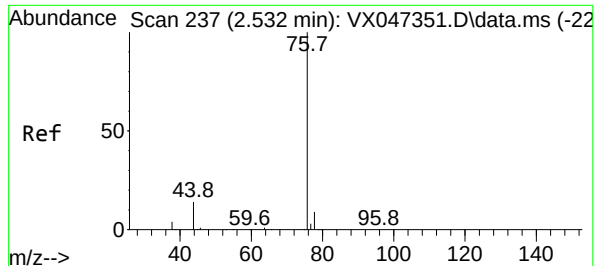
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#16
Acetone
Concen: 246.195 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 324930
Ion Ratio Lower Upper
43 100
58 33.2 24.8 37.2





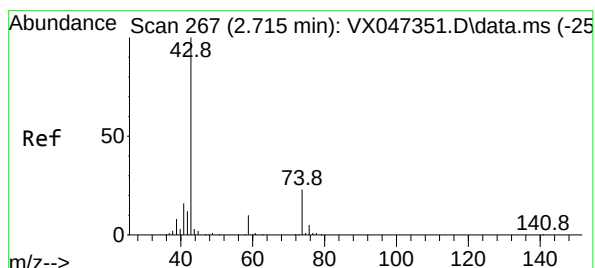
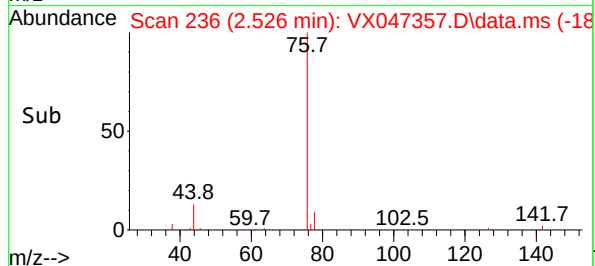
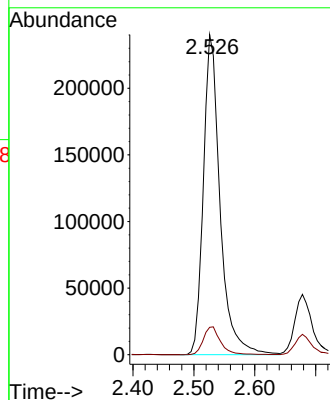
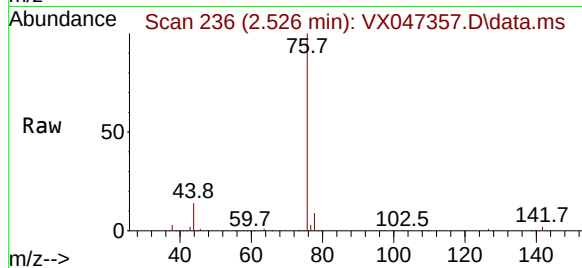
#17
Carbon Disulfide
Concen: 48.034 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion: 76 Resp: 45787
Ion Ratio Lower Upper
76 100
78 8.6 7.2 10.8

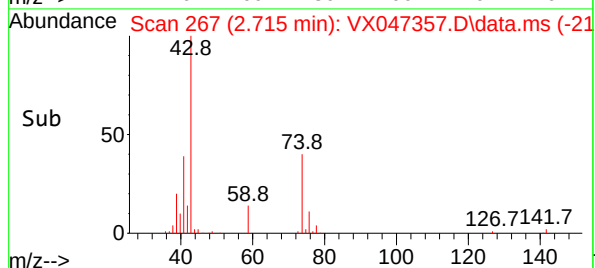
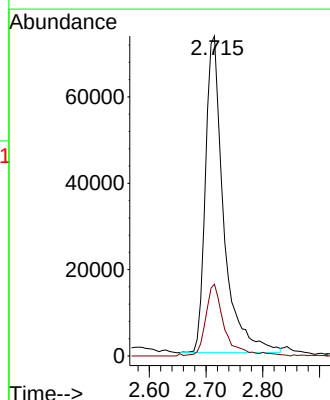
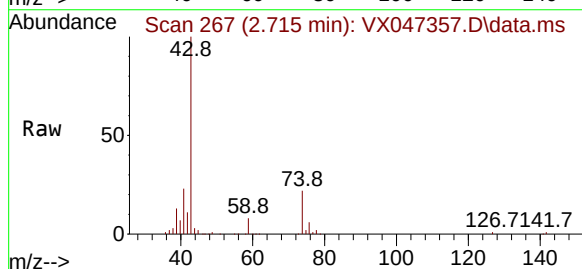
Manual Integrations
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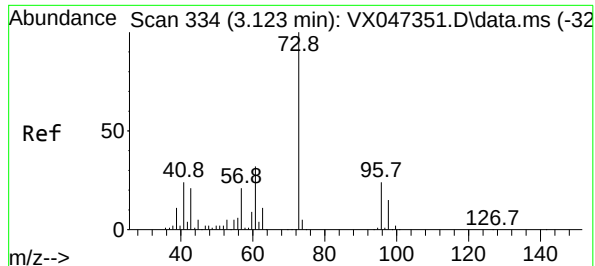
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#18
Methyl Acetate
Concen: 47.774 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 43 Resp: 163394
Ion Ratio Lower Upper
43 100
74 21.6 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 50.072 ug/l

RT: 3.123 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 73 Resp: 48118

Ion Ratio Lower Upper

73 100

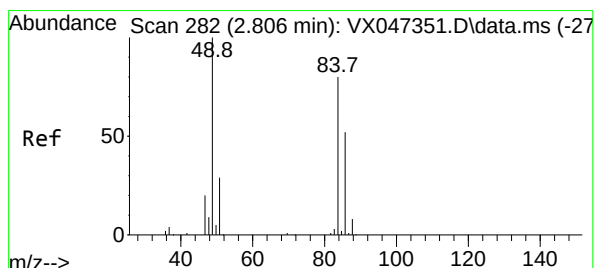
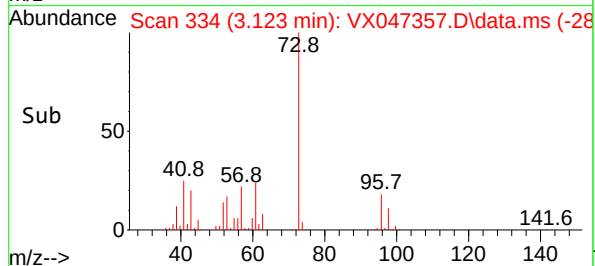
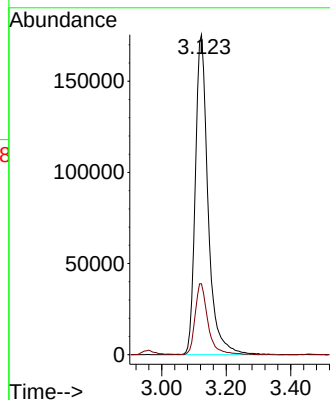
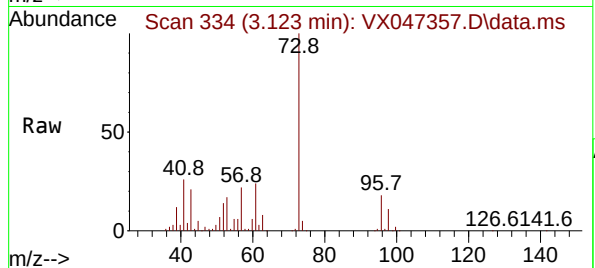
57 22.1 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#20

Methylene Chloride

Concen: 49.724 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Tgt Ion: 84 Resp: 173780

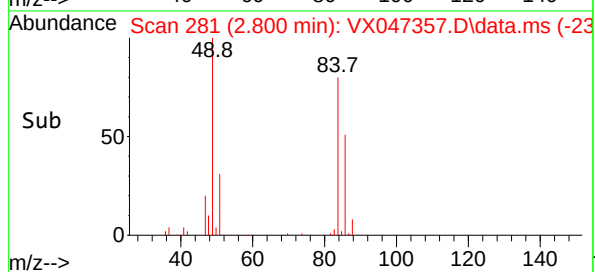
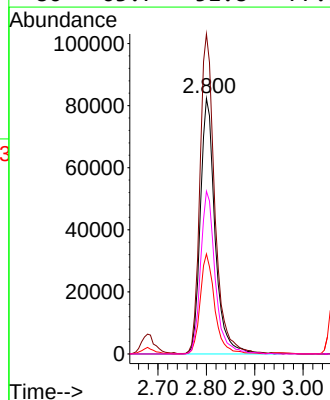
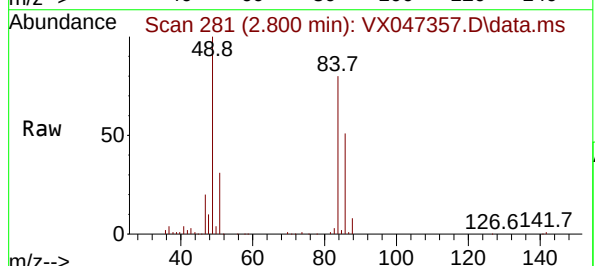
Ion Ratio Lower Upper

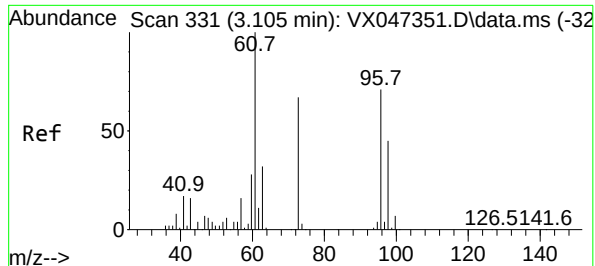
84 100

49 125.0 100.1 150.1

51 39.1 29.5 44.3

86 63.7 51.8 77.8





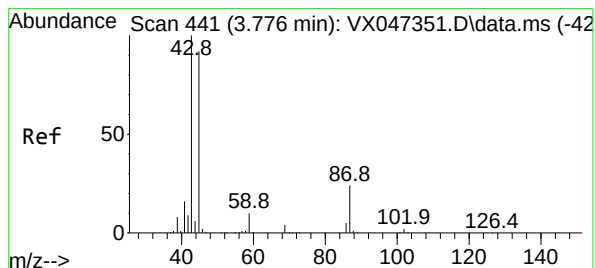
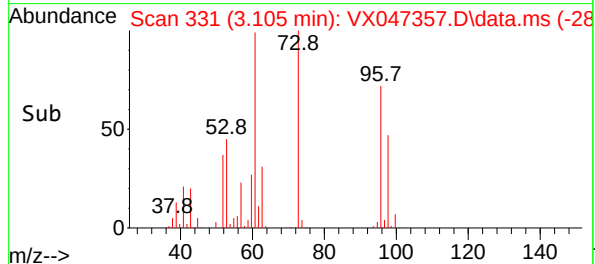
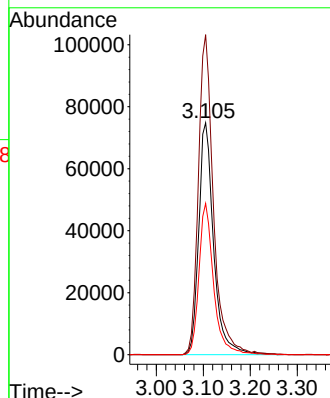
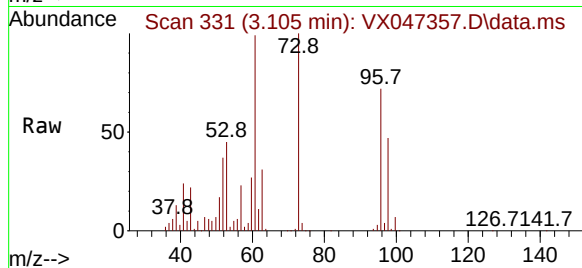
#21
trans-1,2-Dichloroethene
Concen: 49.352 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion: 96 Resp: 16546
Ion Ratio Lower Upper
96 100
61 138.0 112.6 169.0
98 67.2 50.9 76.3

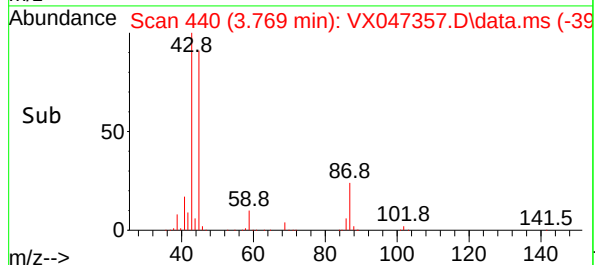
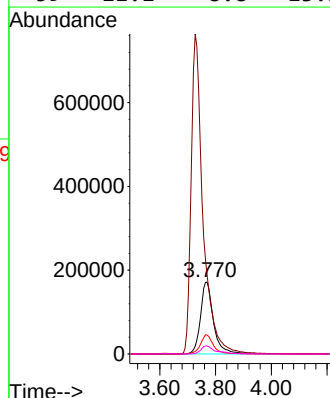
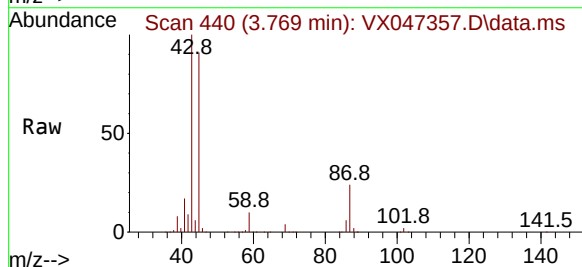
Manual Integrations
APPROVED

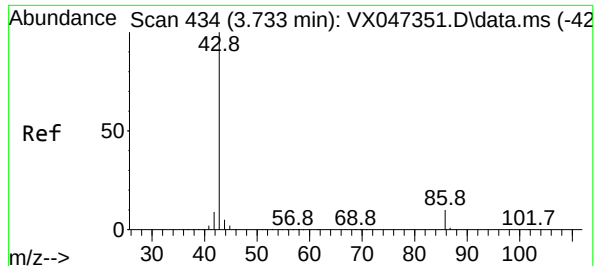
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#22
Diisopropyl ether
Concen: 51.358 ug/l
RT: 3.769 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 45 Resp: 556979
Ion Ratio Lower Upper
45 100
43 109.4 86.8 130.2
87 26.4 20.4 30.6
59 11.1 8.8 13.2





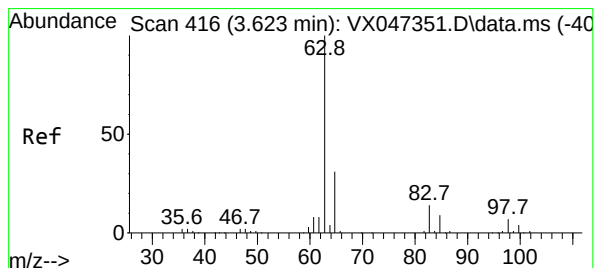
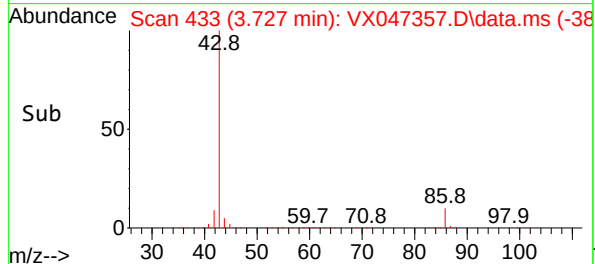
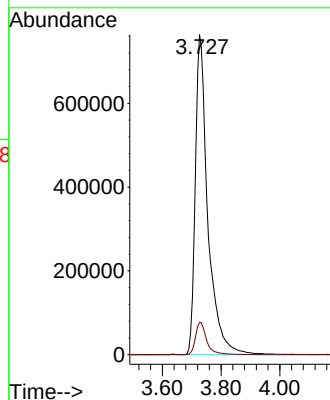
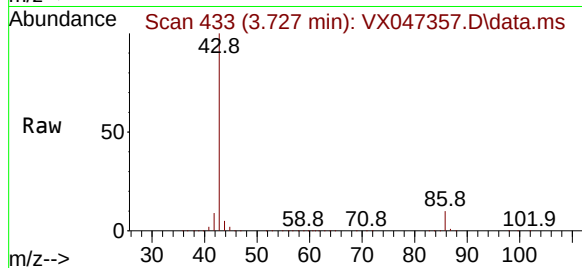
#23
Vinyl Acetate
Concen: 254.755 ug/l
RT: 3.727 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion: 43 Resp: 226455
Ion Ratio Lower Upper
43 100
86 10.1 7.9 11.9

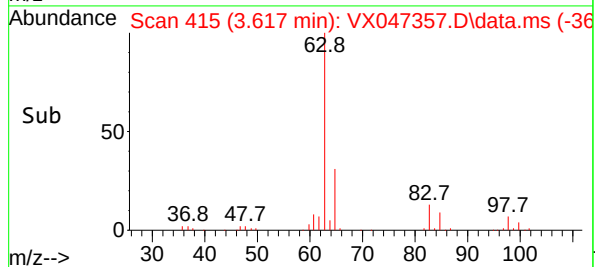
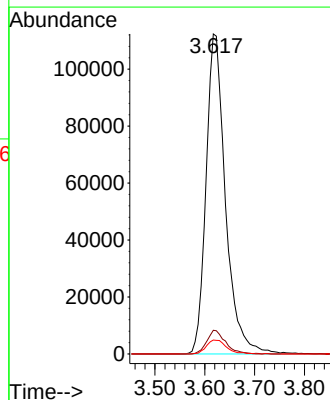
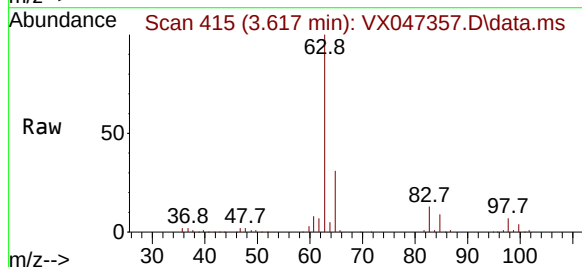
Manual Integrations
APPROVED

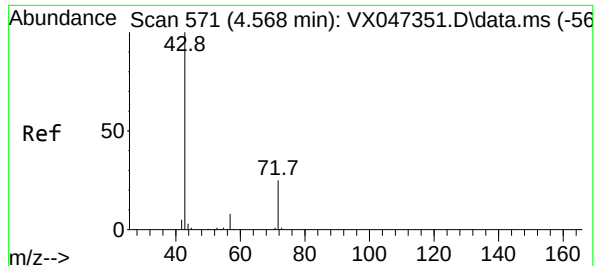
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#24
1,1-Dichloroethane
Concen: 49.586 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 63 Resp: 303962
Ion Ratio Lower Upper
63 100
98 7.4 3.3 9.9
100 4.3 2.1 6.3





#25

2-Butanone

Concen: 244.186 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

Tgt Ion: 43 Resp: 42208

Ion Ratio Lower Upper

43 100

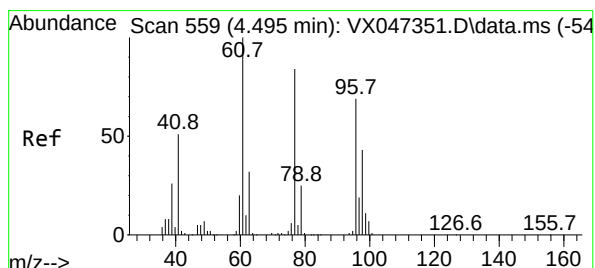
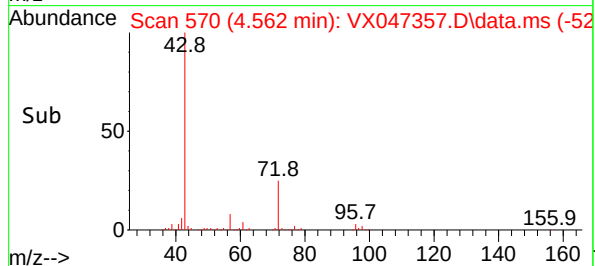
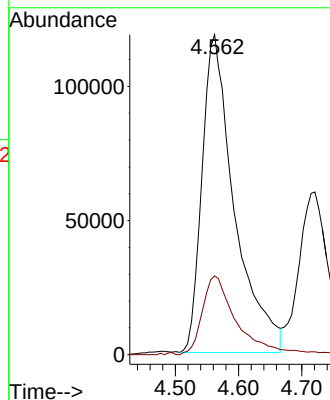
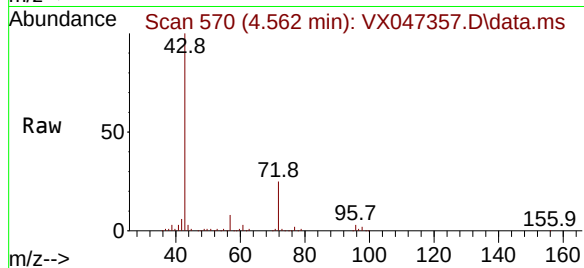
72 24.6 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#26

2,2-Dichloropropane

Concen: 50.188 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX047357.D

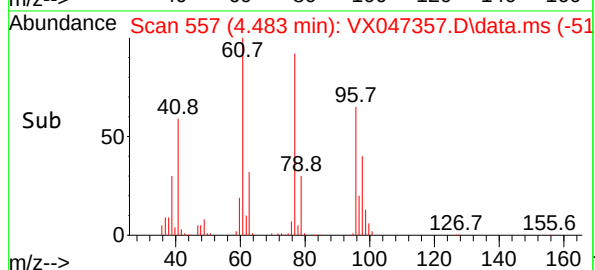
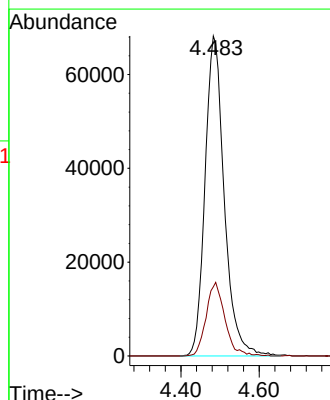
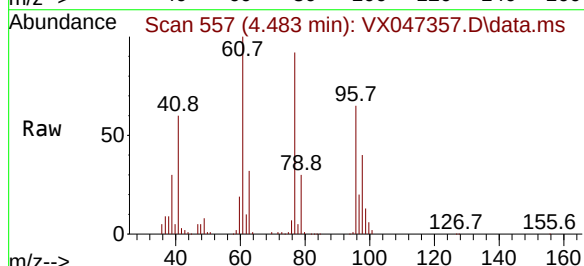
Acq: 15 Aug 2025 13:11

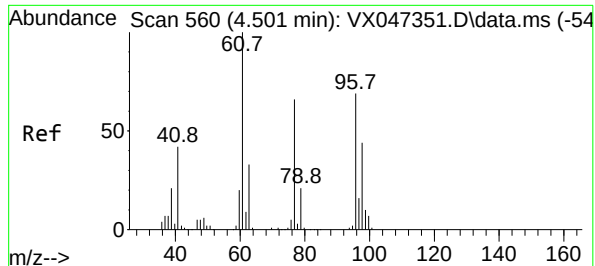
Tgt Ion: 77 Resp: 232204

Ion Ratio Lower Upper

77 100

97 22.3 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 49.507 ug/l

RT: 4.501 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

Tgt Ion: 96 Resp: 193324

Ion Ratio Lower Upper

96 100

61 145.7 0.0 296.6

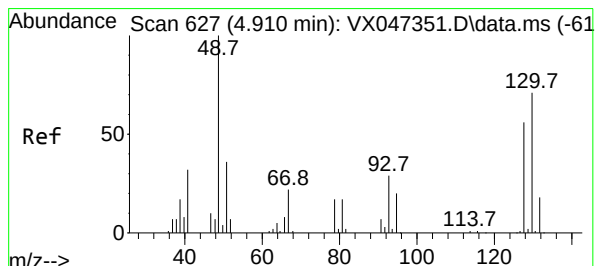
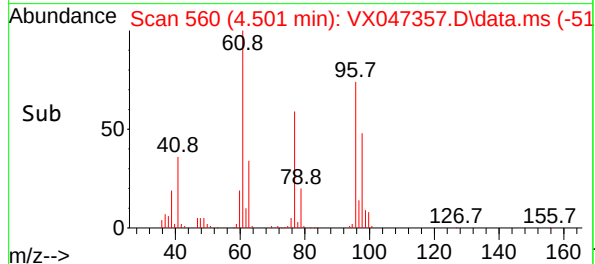
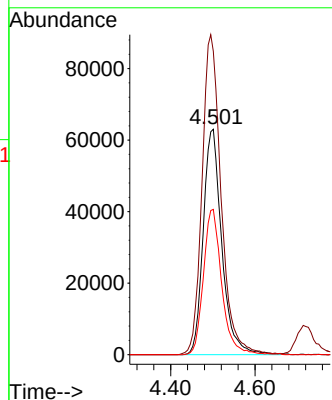
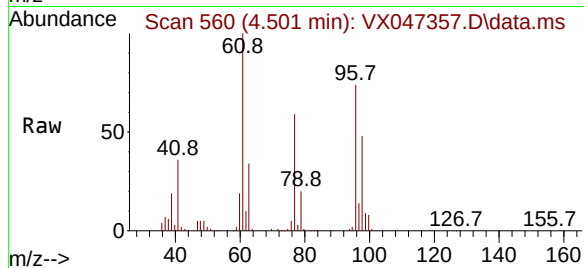
98 63.5 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#28

Bromochloromethane

Concen: 57.153 ug/l

RT: 4.903 min Scan# 626

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

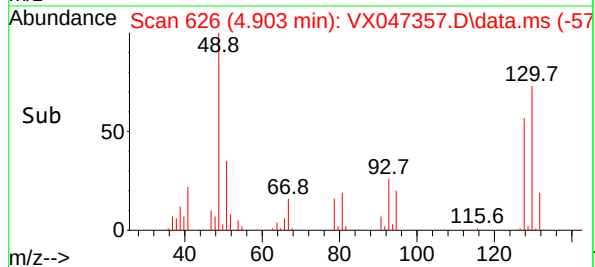
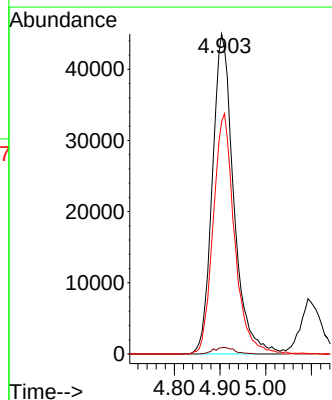
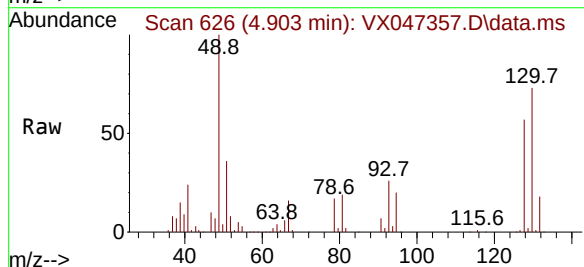
Tgt Ion: 49 Resp: 145787

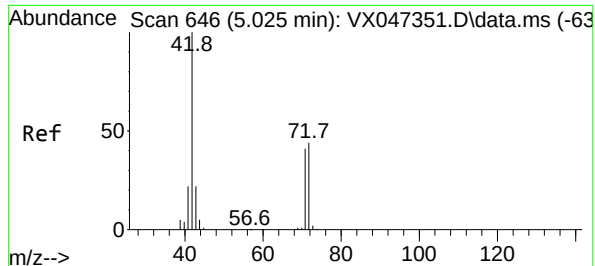
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.0

130 75.0 59.8 89.6





#29

Tetrahydrofuran

Concen: 240.659 ug/l

RT: 5.019 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 42 Resp: 26886

Ion Ratio Lower Upper

42 100

72 43.7 34.6 51.8

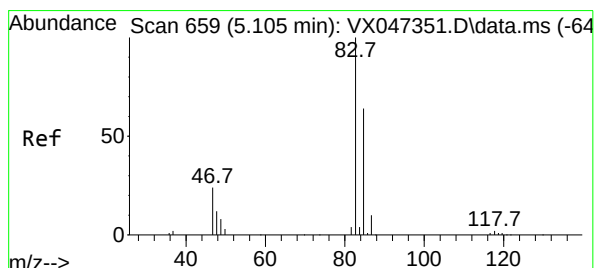
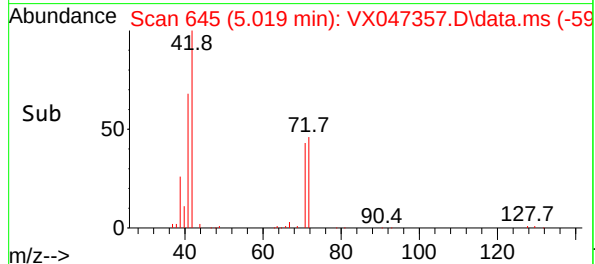
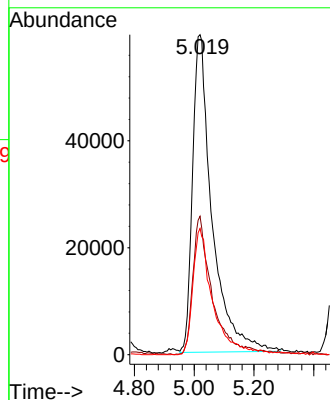
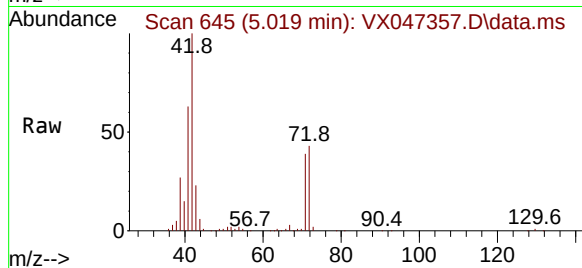
71 39.8 32.6 49.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#30

Chloroform

Concen: 49.055 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.006 min

Lab File: VX047357.D

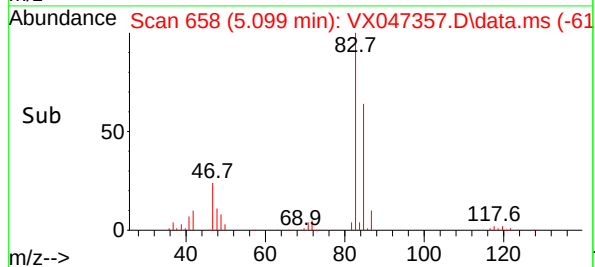
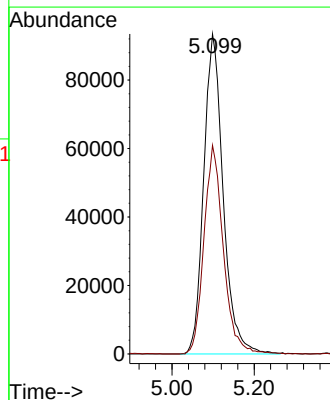
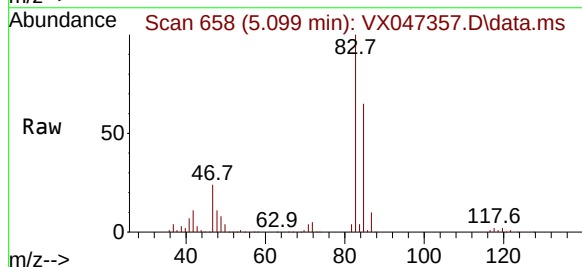
Acq: 15 Aug 2025 13:11

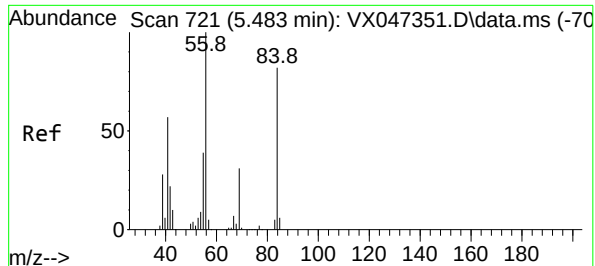
Tgt Ion: 83 Resp: 306888

Ion Ratio Lower Upper

83 100

85 65.2 51.2 76.8





#31

Cyclohexane

Concen: 47.066 ug/l

RT: 5.477 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 56 Resp: 265960

Ion Ratio Lower Upper

56 100

69 28.3 24.3 36.5

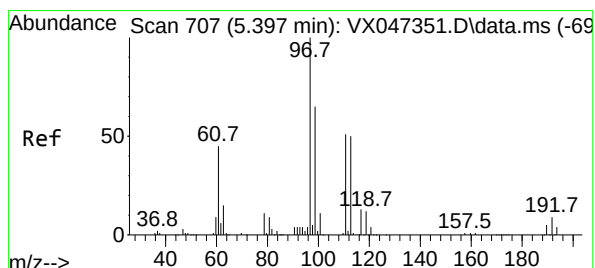
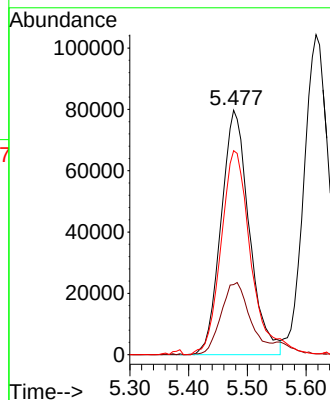
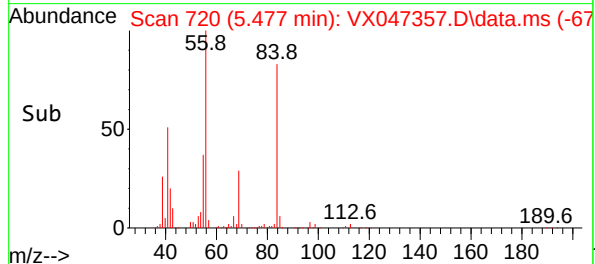
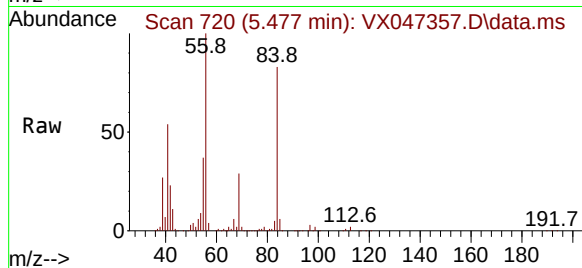
84 81.4 65.3 97.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#32

1,1,1-Trichloroethane

Concen: 49.018 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

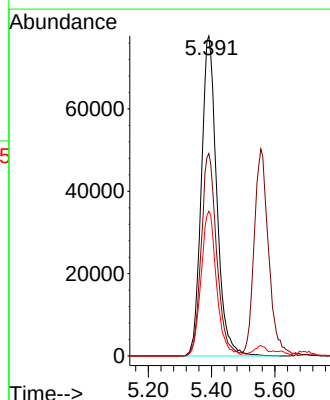
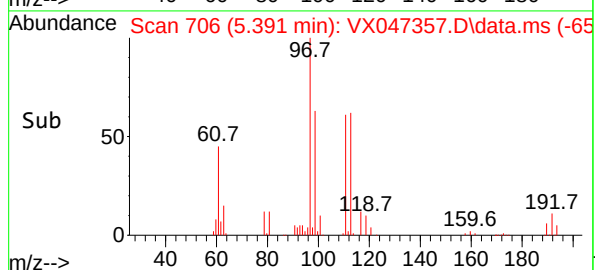
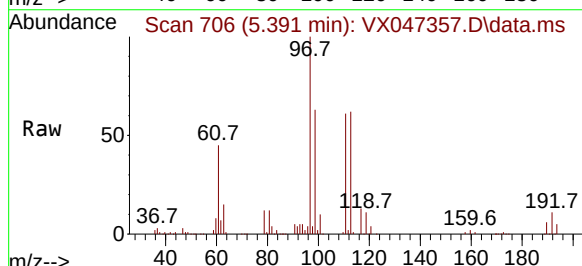
Tgt Ion: 97 Resp: 263954

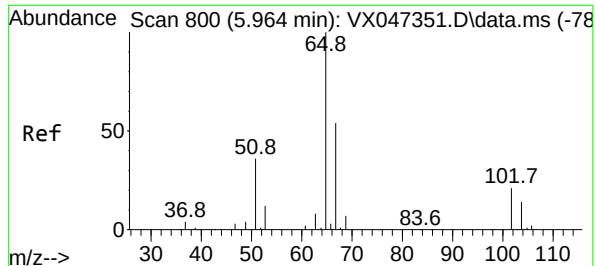
Ion Ratio Lower Upper

97 100

99 63.5 51.4 77.0

61 45.4 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 54.750 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

Client Sample Id :

ICVVX081525

Tgt Ion: 65 Resp: 19224

Ion Ratio Lower Upper

65 100

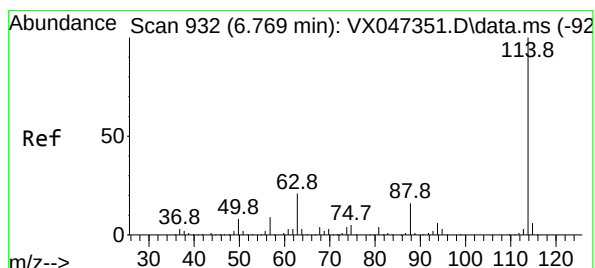
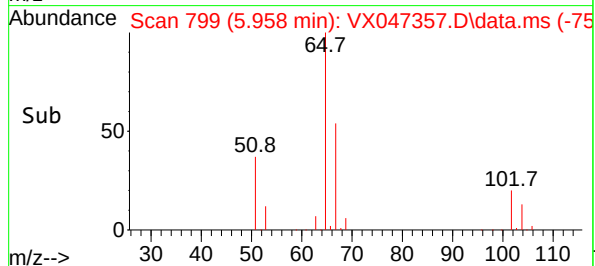
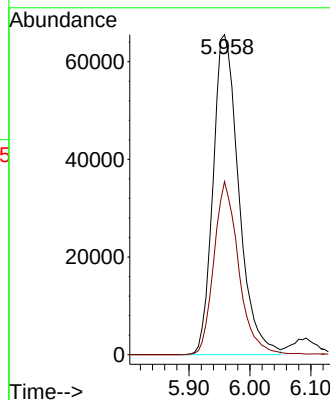
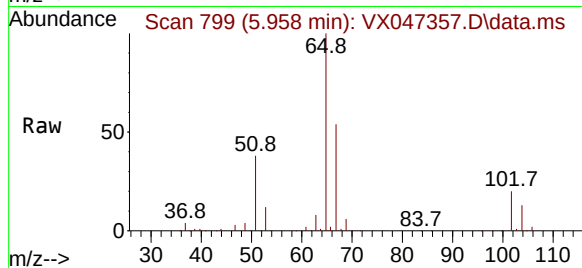
67 52.2 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

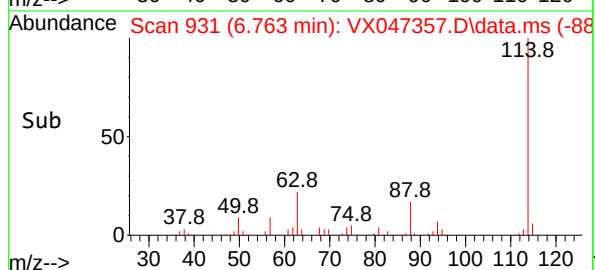
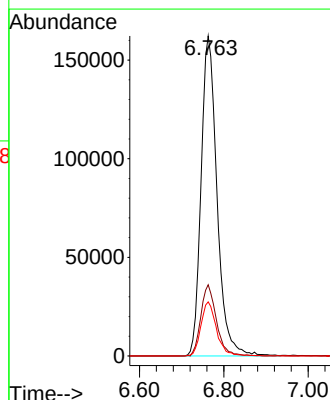
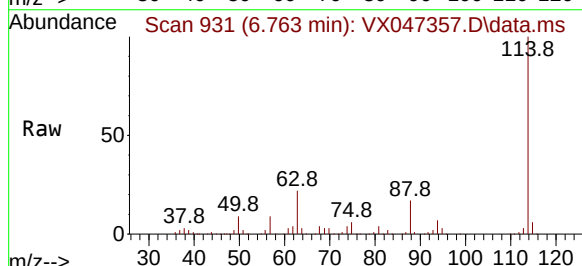
Tgt Ion:114 Resp: 427543

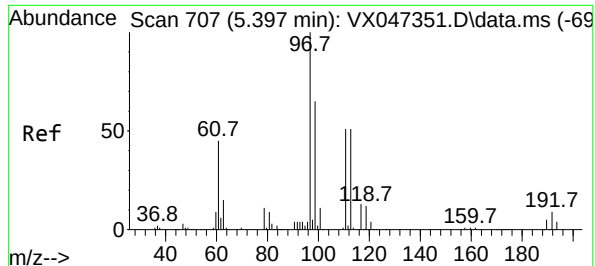
Ion Ratio Lower Upper

114 100

63 22.2 0.0 42.4

88 16.9 0.0 33.0





#35

Dibromofluoromethane

Concen: 55.488 ug/l

RT: 5.391 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 113 Resp: 15396

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.2

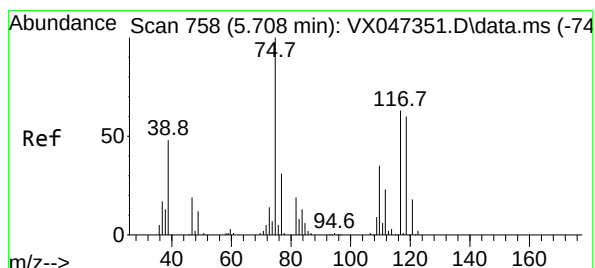
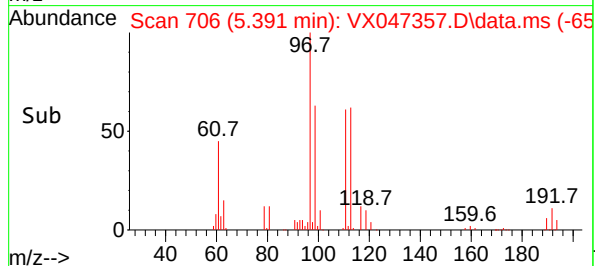
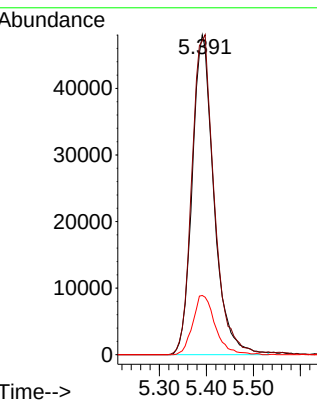
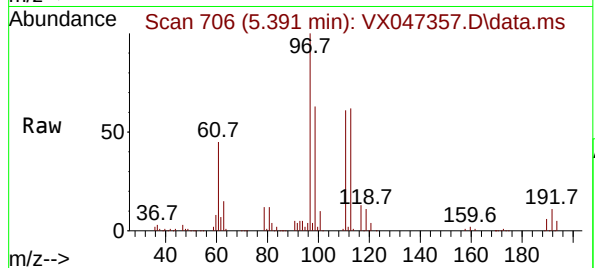
192 19.2 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#36

1,1-Dichloropropene

Concen: 47.627 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

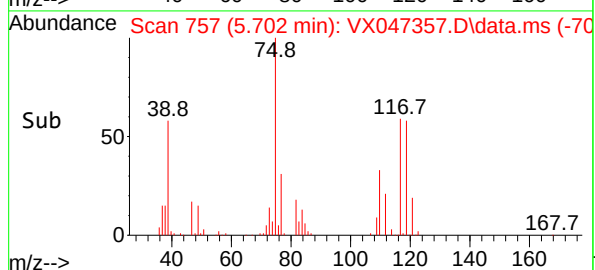
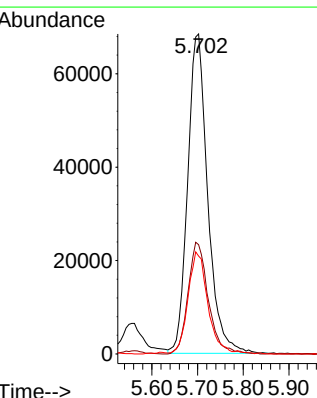
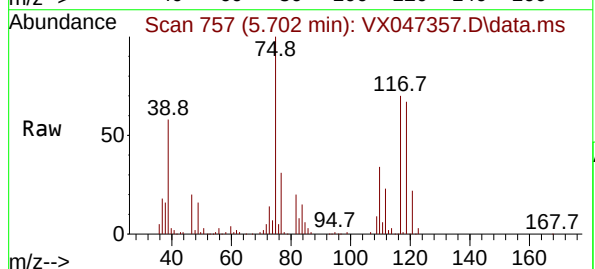
Tgt Ion: 75 Resp: 208616

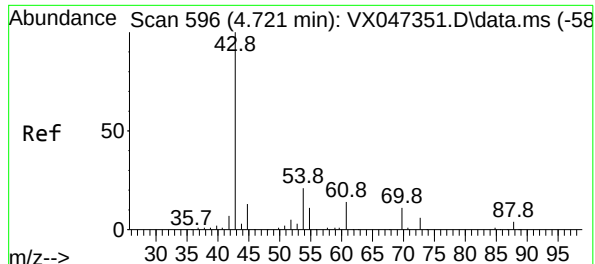
Ion Ratio Lower Upper

75 100

110 35.4 17.4 52.2

77 31.5 24.4 36.6





#37

Ethyl Acetate

Concen: 47.213 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

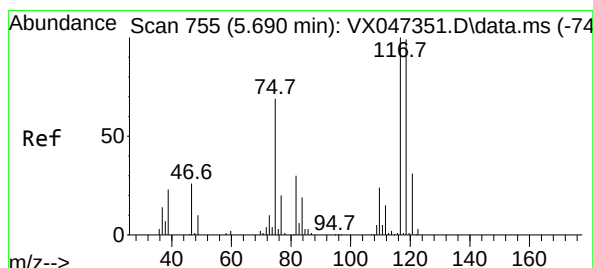
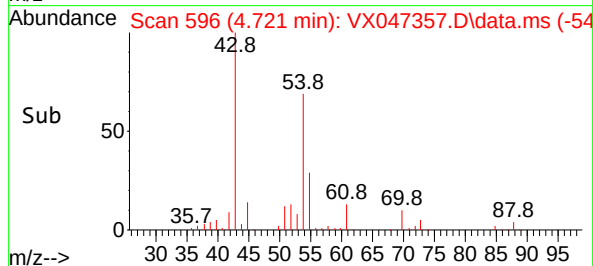
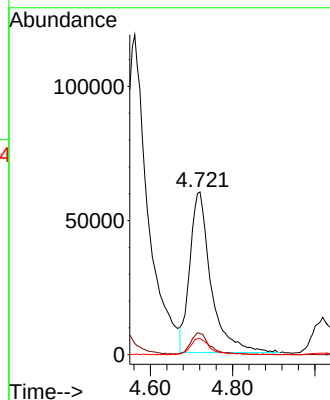
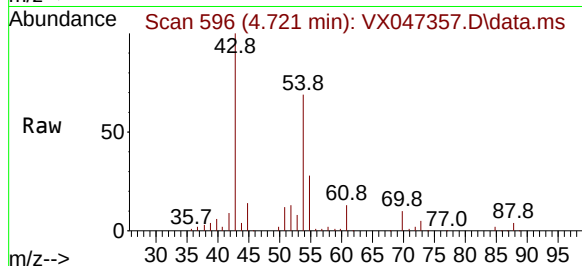
ICVX081525

Tgt Ion:	43	Resp:	21469
Ion	Ratio	Lower	Upper
43	100		
61	11.4	9.4	14.2
70	9.0	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#38

Carbon Tetrachloride

Concen: 47.393 ug/l

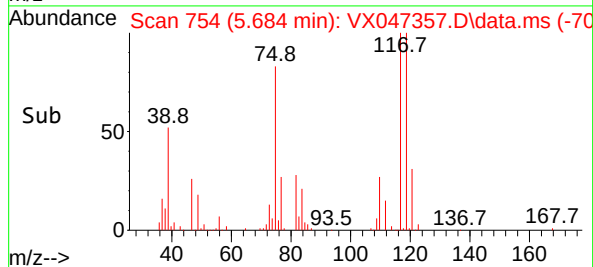
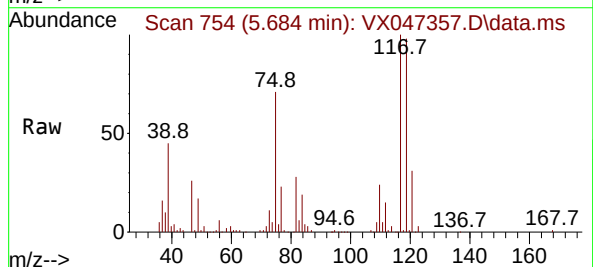
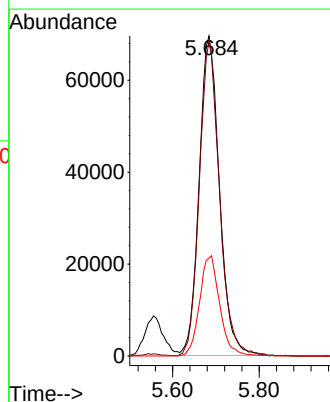
RT: 5.684 min Scan# 754

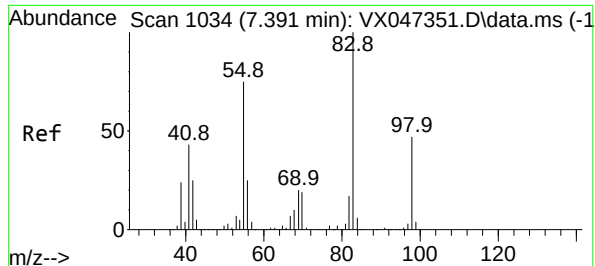
Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Tgt Ion:	117	Resp:	226854
Ion	Ratio	Lower	Upper
117	100		
119	98.3	78.5	117.7
121	30.7	24.7	37.1





#39

Methylcyclohexane

Concen: 47.074 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. -0.012 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 83 Resp: 257199

Ion Ratio Lower Upper

83 100

55 78.4 60.0 90.0

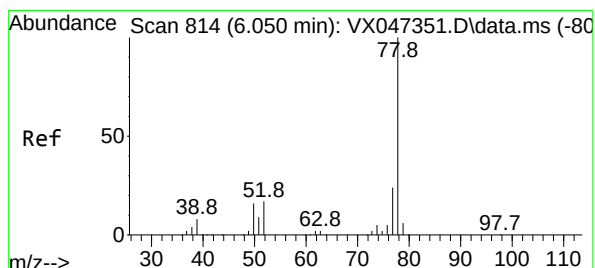
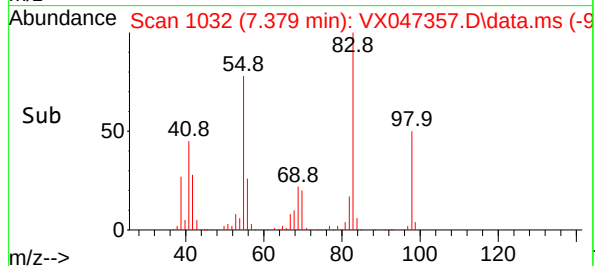
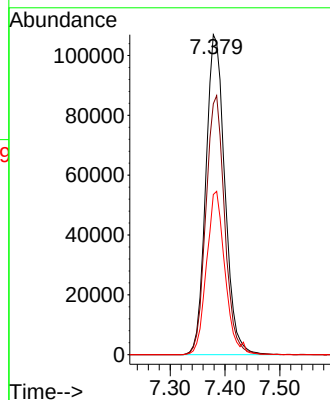
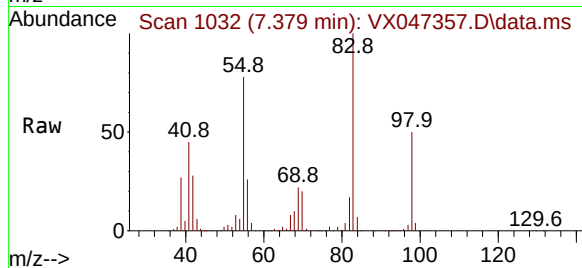
98 50.0 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#40

Benzene

Concen: 48.672 ug/l

RT: 6.043 min Scan# 813

Delta R.T. -0.006 min

Lab File: VX047357.D

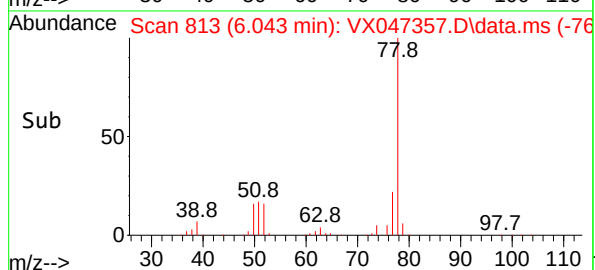
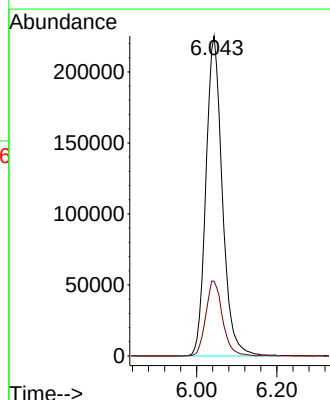
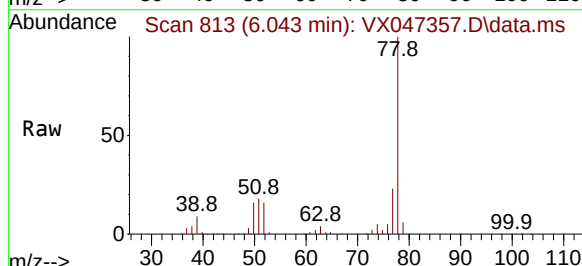
Acq: 15 Aug 2025 13:11

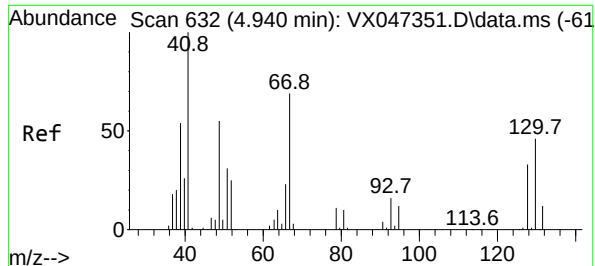
Tgt Ion: 78 Resp: 638127

Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.4





#41

Methacrylonitrile

Concen: 48.768 ug/l

RT: 4.934 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 41 Resp: 9351

Ion Ratio Lower Upper

41 100

39 54.3 45.4 68.2

67 82.3 64.0 96.0

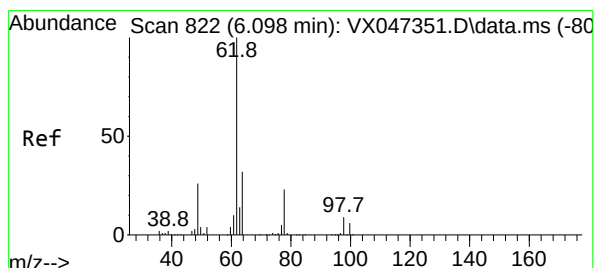
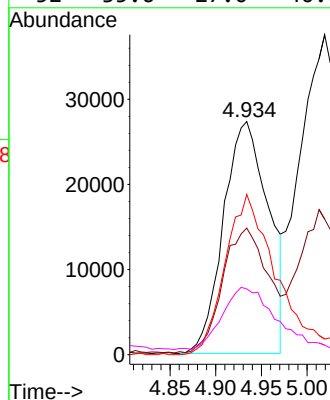
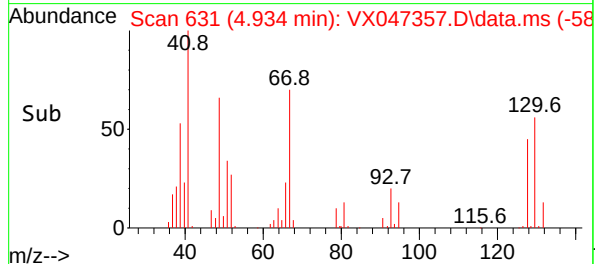
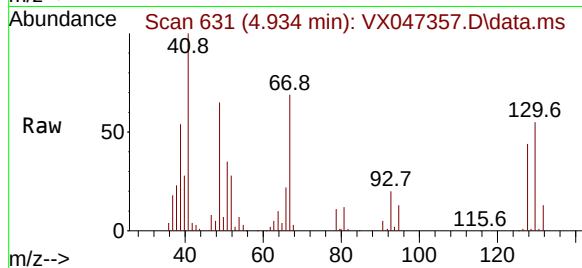
52 35.6 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#42

1,2-Dichloroethane

Concen: 48.708 ug/l

RT: 6.086 min Scan# 820

Delta R.T. -0.012 min

Lab File: VX047357.D

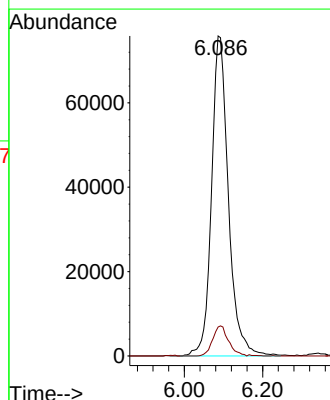
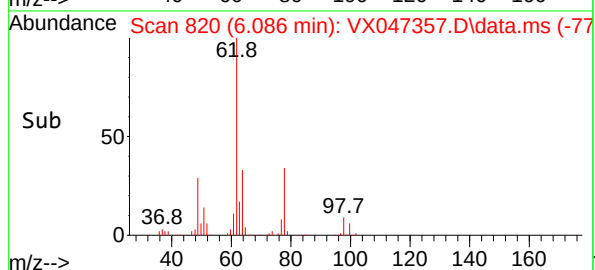
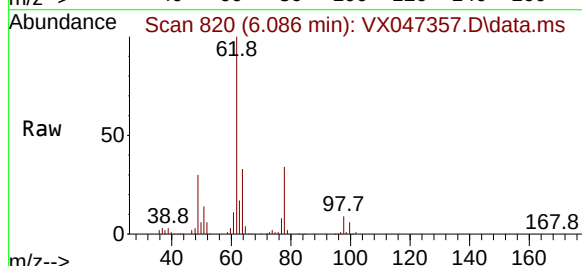
Acq: 15 Aug 2025 13:11

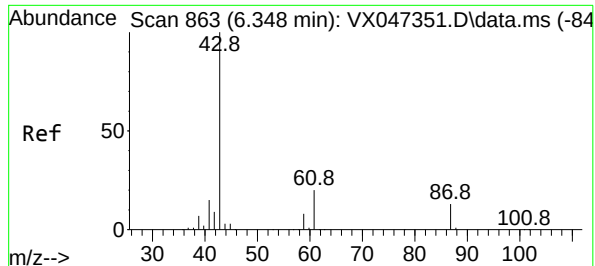
Tgt Ion: 62 Resp: 226201

Ion Ratio Lower Upper

62 100

98 8.8 0.0 18.0





#43

Isopropyl Acetate

Concen: 48.740 ug/l

RT: 6.342 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

Tgt Ion: 43 Resp: 318400

Ion Ratio Lower Upper

43 100

61 19.3 15.4 23.0

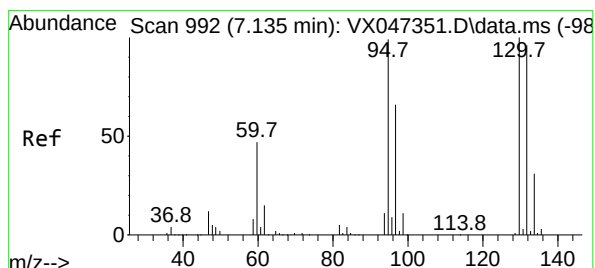
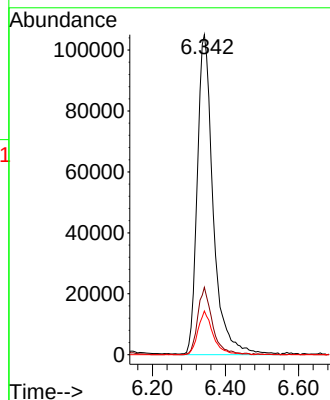
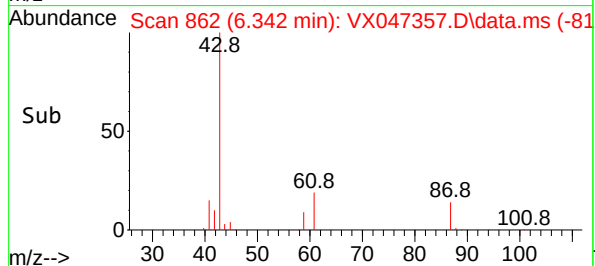
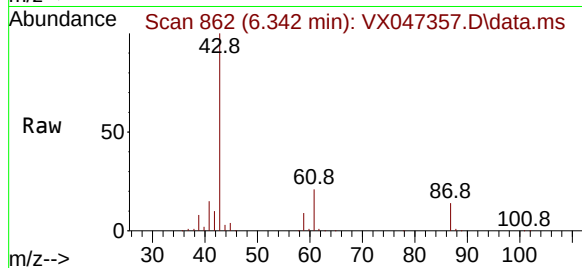
87 12.9 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#44

Trichloroethene

Concen: 47.974 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX047357.D

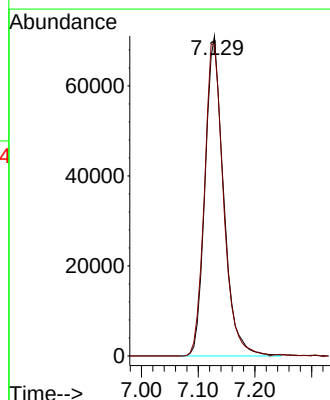
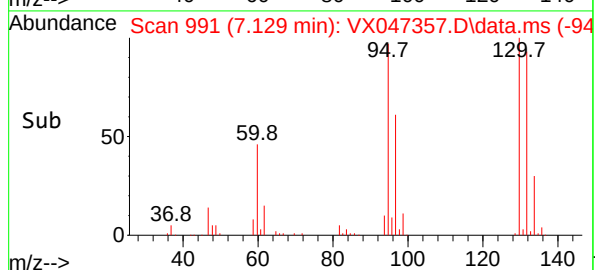
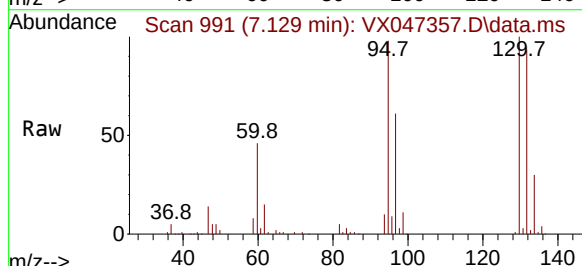
Acq: 15 Aug 2025 13:11

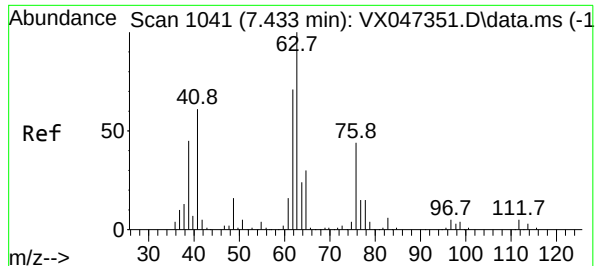
Tgt Ion:130 Resp: 161053

Ion Ratio Lower Upper

130 100

95 97.5 0.0 198.6





#45

1,2-Dichloropropane

Concen: 48.760 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 63 Resp: 16015

Ion Ratio Lower Upper

63 100

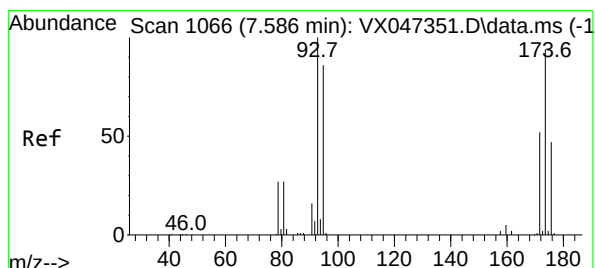
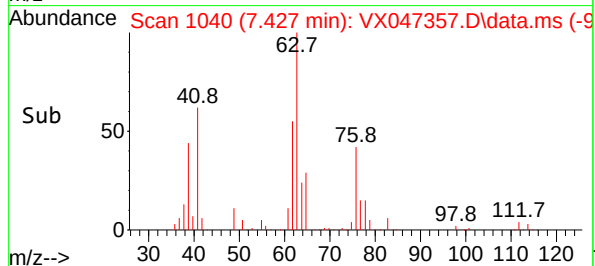
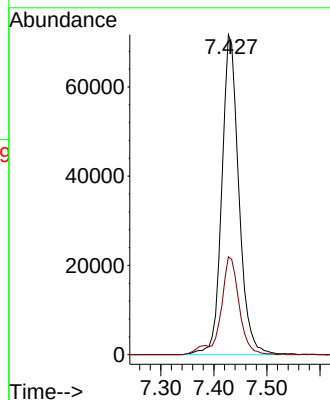
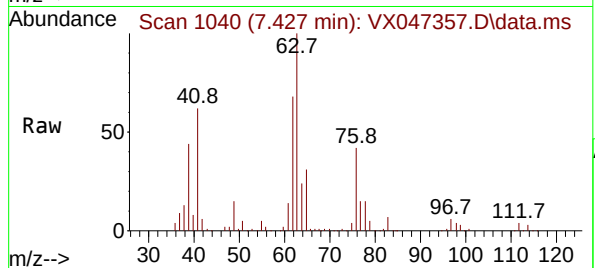
65 30.6 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#46

Dibromomethane

Concen: 48.500 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

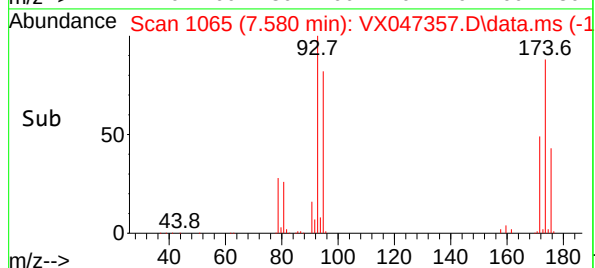
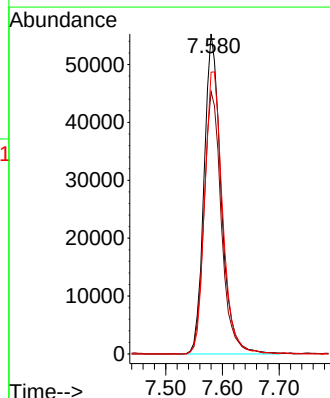
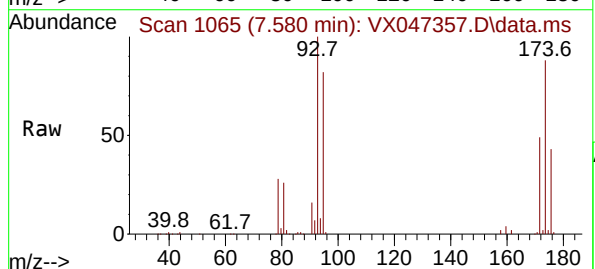
Tgt Ion: 93 Resp: 115651

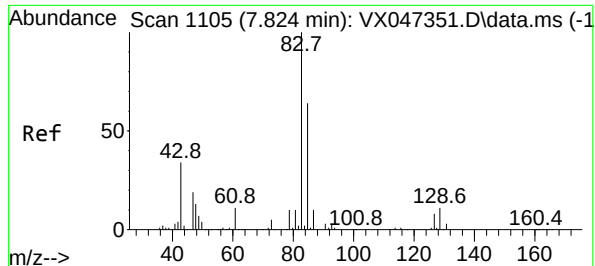
Ion Ratio Lower Upper

93 100

95 83.5 68.0 102.0

174 92.2 75.8 113.6





#47

Bromodichloromethane

Concen: 48.121 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

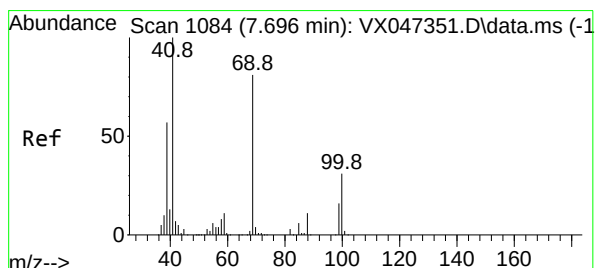
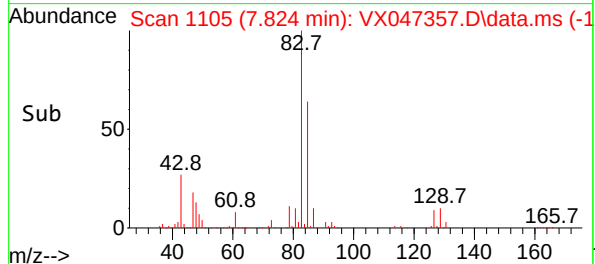
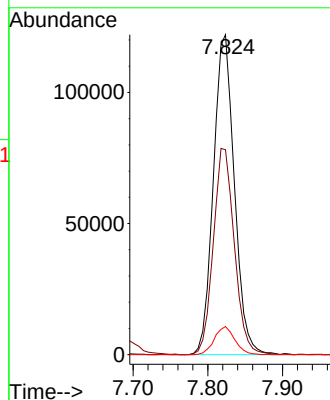
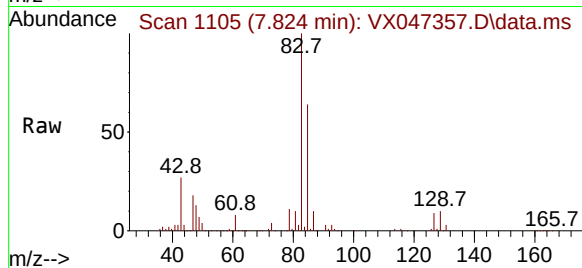
ICVVX081525

Tgt Ion:	83	Resp:	23788
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.0	76.6
127	8.8	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#48

Methyl methacrylate

Concen: 48.604 ug/l

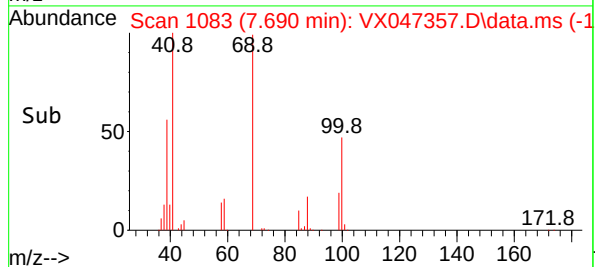
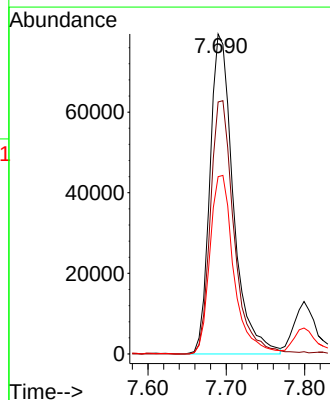
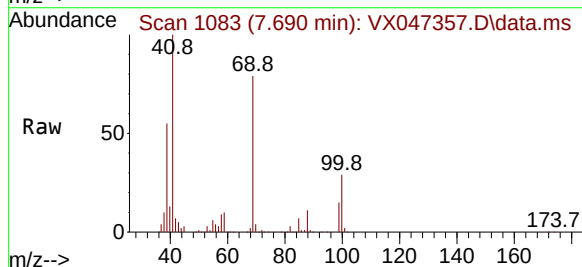
RT: 7.690 min Scan# 1083

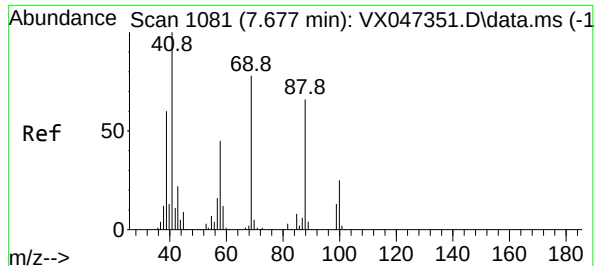
Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Tgt Ion:	41	Resp:	164810
Ion	Ratio	Lower	Upper
41	100		
69	79.8	65.0	97.4
39	57.0	45.7	68.5





#49

1,4-Dioxane

Concen: 890.740 ug/l m

RT: 7.677 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

Tgt Ion: 88 Resp: 2936

Ion Ratio Lower Upper

88 100

43 42.6 32.4 48.6

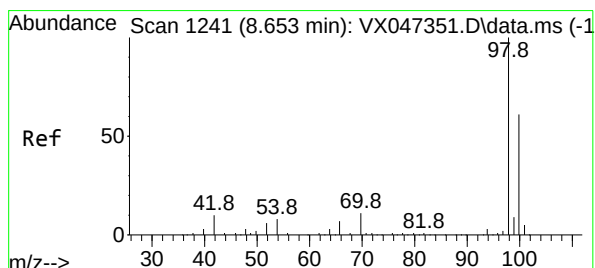
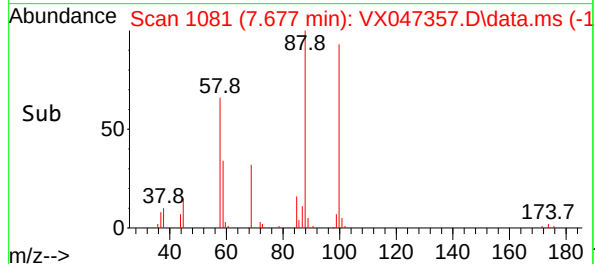
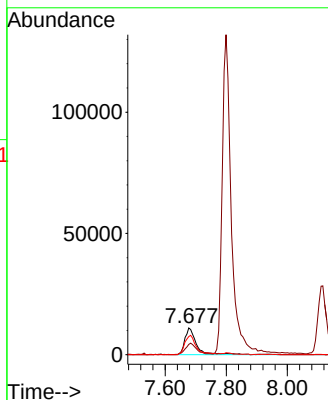
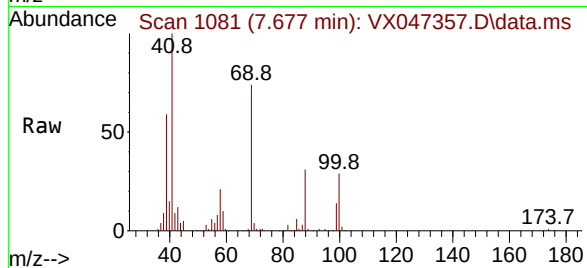
58 70.1 56.9 85.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#50

Toluene-d8

Concen: 54.448 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX047357.D

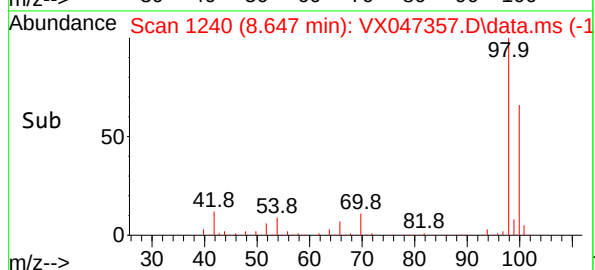
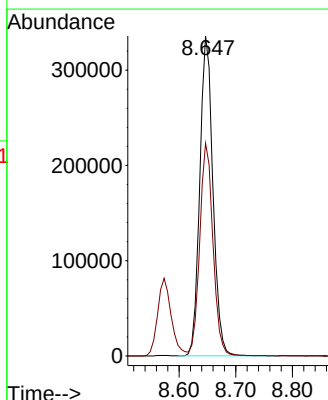
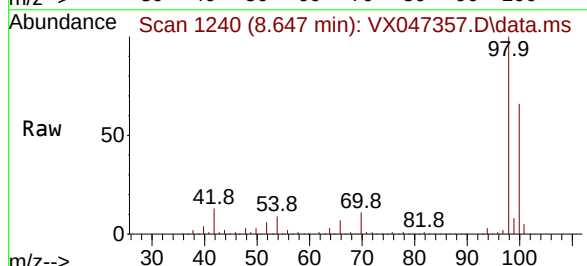
Acq: 15 Aug 2025 13:11

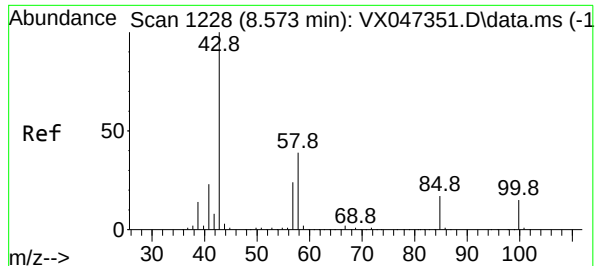
Tgt Ion: 98 Resp: 540007

Ion Ratio Lower Upper

98 100

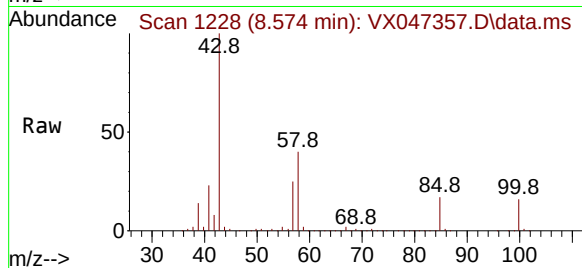
100 67.2 53.9 80.9





#51
4-Methyl-2-Pentanone
Concen: 243.797 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

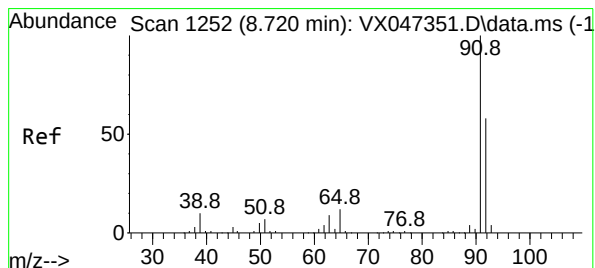
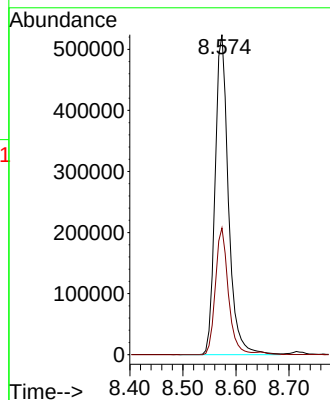
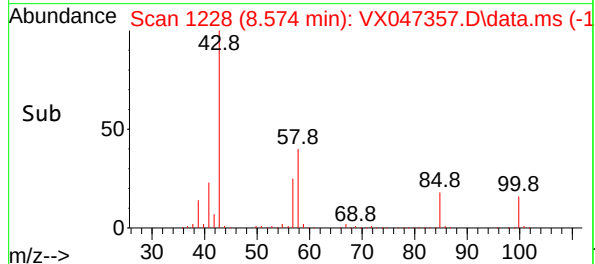
Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525



Tgt Ion: 43 Resp: 916499
Ion Ratio Lower Upper
43 100
58 38.3 31.2 46.8

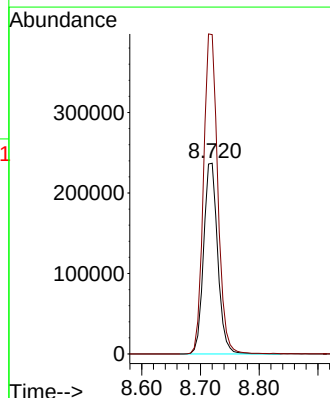
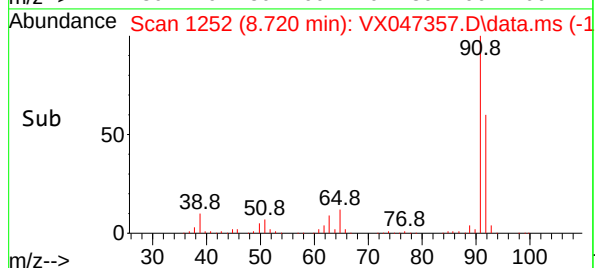
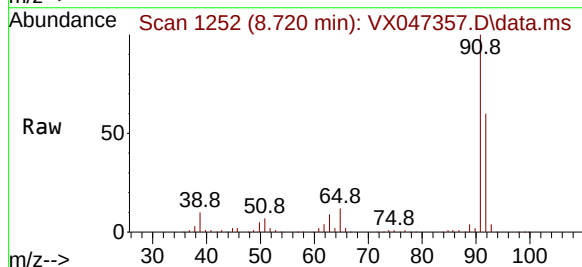
Manual Integrations
APPROVED

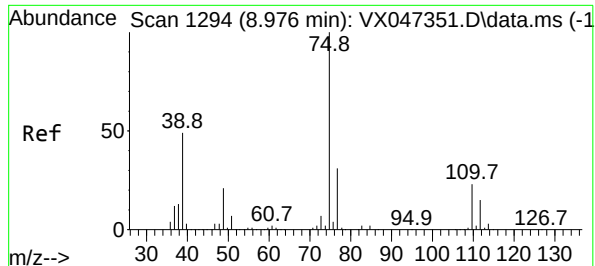
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#52
Toluene
Concen: 48.706 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 92 Resp: 394588
Ion Ratio Lower Upper
92 100
91 170.1 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 50.716 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

Tgt Ion: 75 Resp: 21880

Ion Ratio Lower Upper

75 100

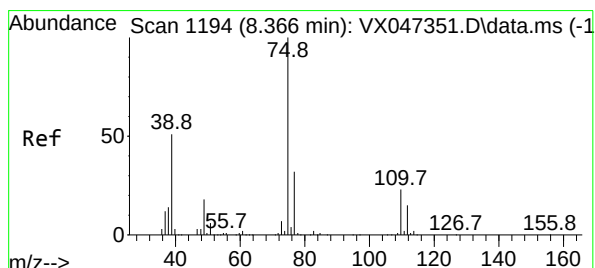
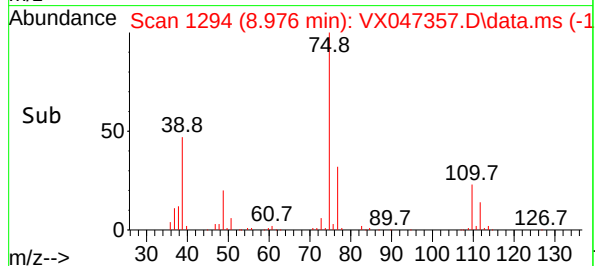
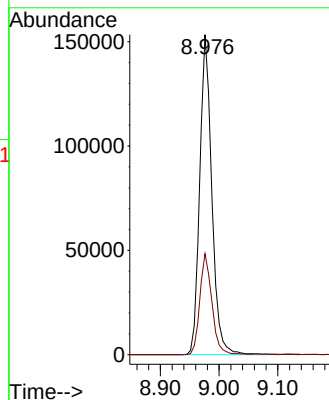
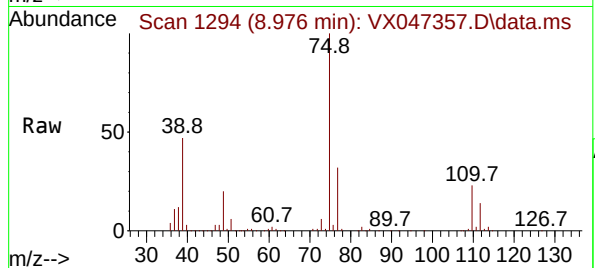
77 31.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#54

cis-1,3-Dichloropropene

Concen: 49.956 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

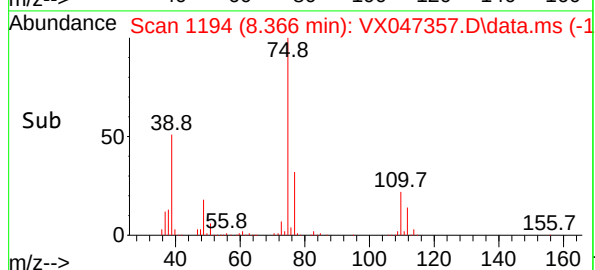
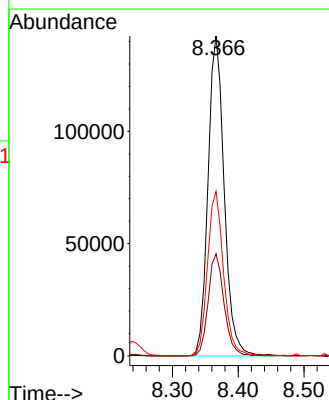
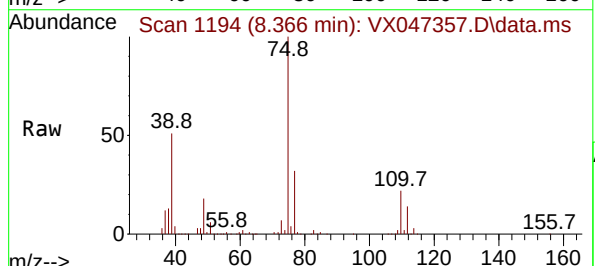
Tgt Ion: 75 Resp: 243957

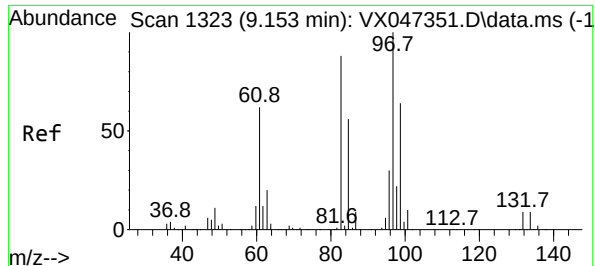
Ion Ratio Lower Upper

75 100

77 31.9 25.6 38.4

39 51.3 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 48.385 ug/l

RT: 9.147 min Scan# 1323

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 97 Resp: 14883

Ion Ratio Lower Upper

97 100

83 85.4 70.6 106.0

85 53.8 44.7 67.1

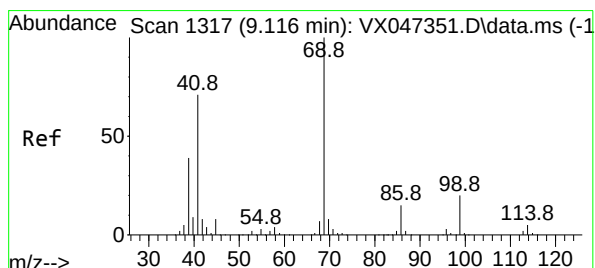
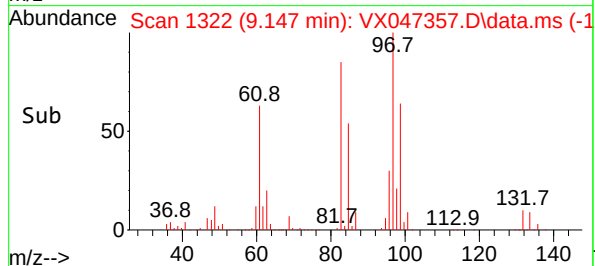
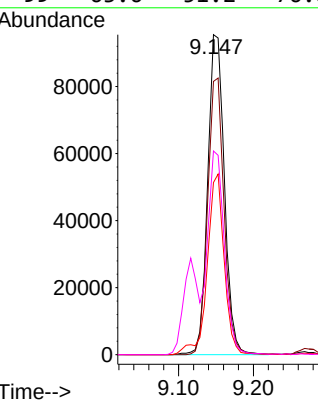
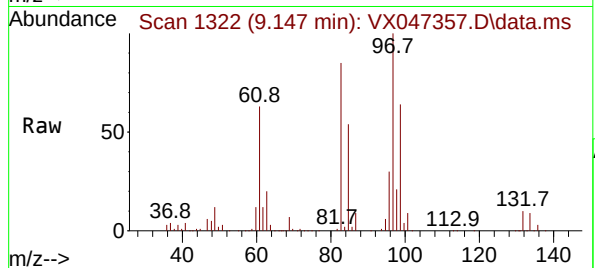
99 63.6 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#56

Ethyl methacrylate

Concen: 50.140 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

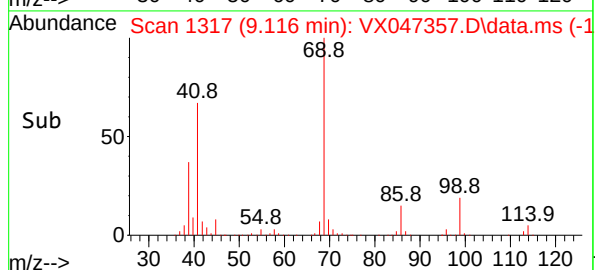
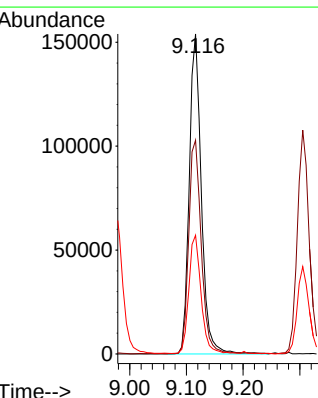
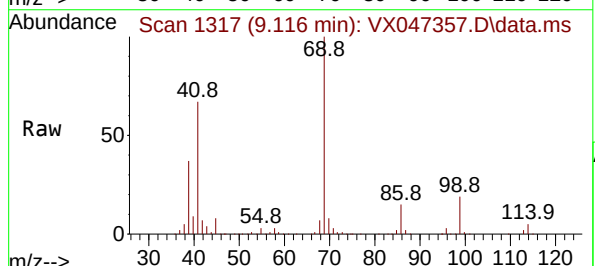
Tgt Ion: 69 Resp: 227388

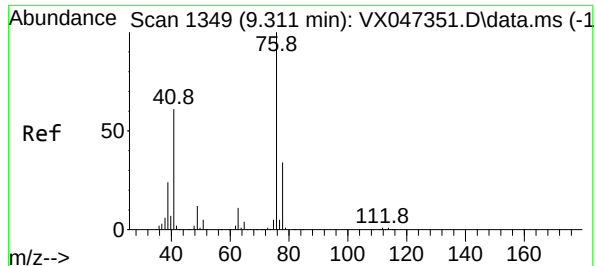
Ion Ratio Lower Upper

69 100

41 69.1 55.3 82.9

39 37.2 30.2 45.2





#57

1,3-Dichloropropane

Concen: 48.290 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 76 Resp: 253108

Ion Ratio Lower Upper

76 100

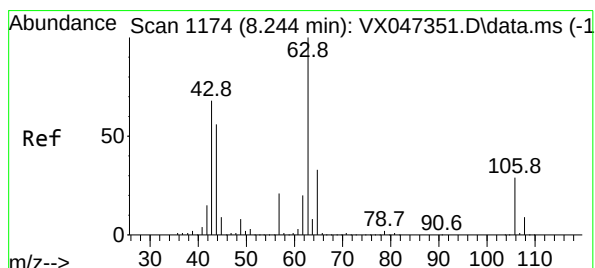
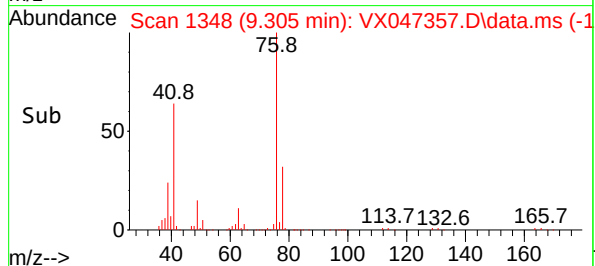
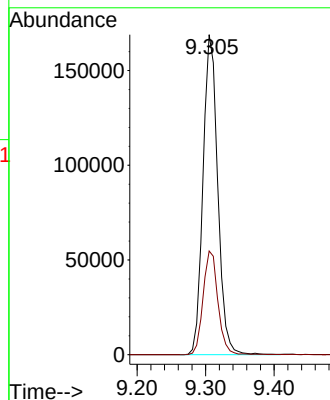
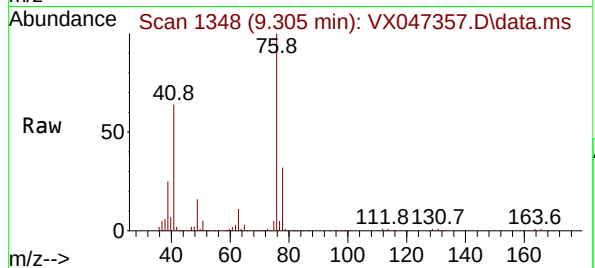
78 32.7 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 222.770 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX047357.D

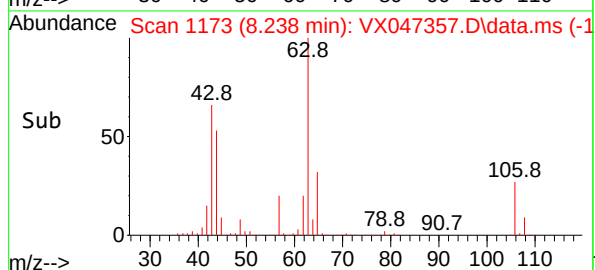
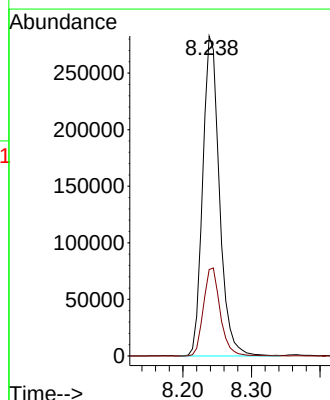
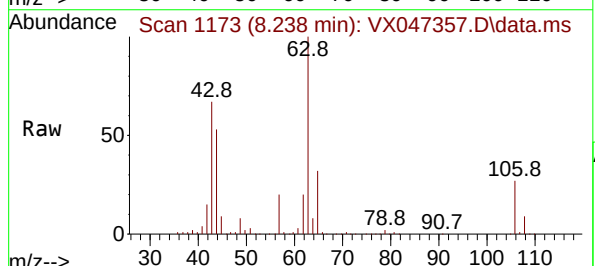
Acq: 15 Aug 2025 13:11

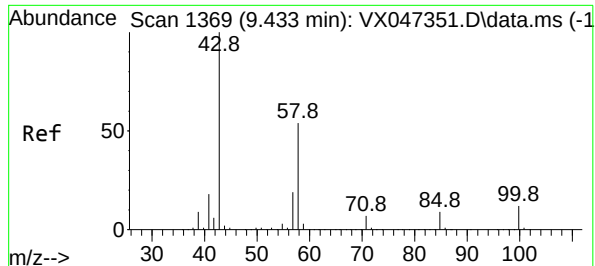
Tgt Ion: 63 Resp: 480379

Ion Ratio Lower Upper

63 100

106 27.7 22.8 34.2





#59

2-Hexanone

Concen: 242.481 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 43 Resp: 63054

Ion Ratio Lower Upper

43 100

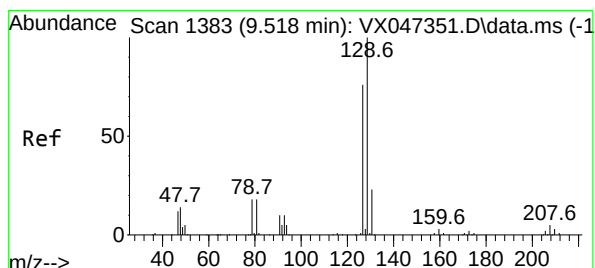
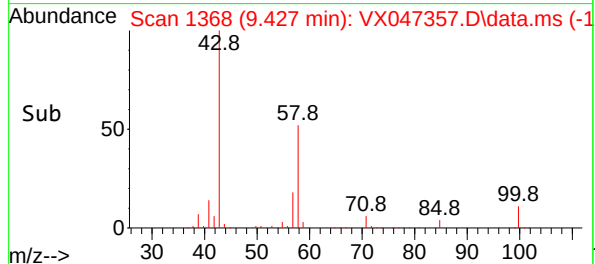
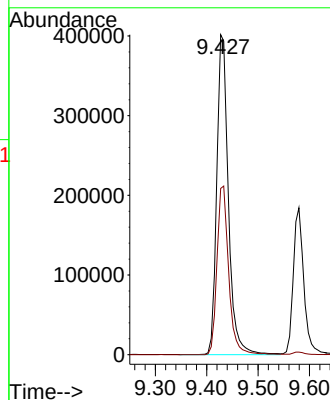
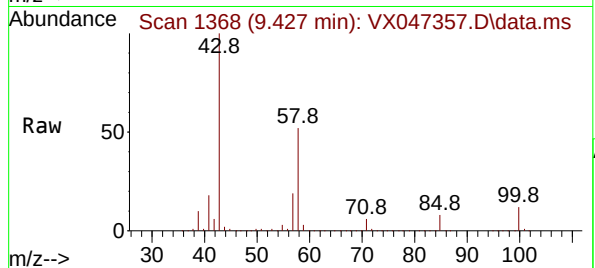
58 53.2 26.9 80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#60

Dibromochloromethane

Concen: 48.122 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047357.D

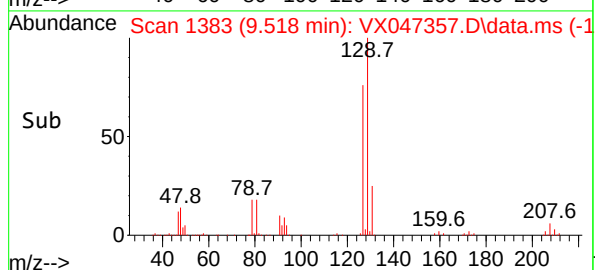
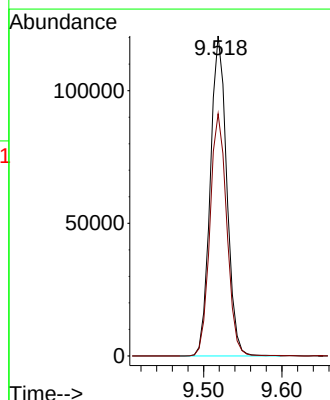
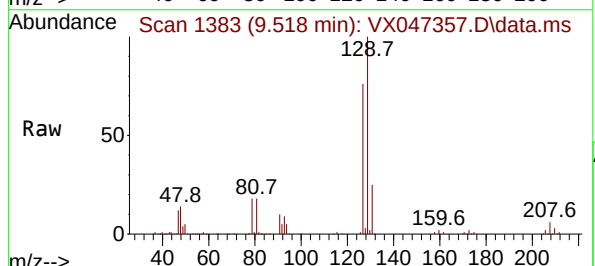
Acq: 15 Aug 2025 13:11

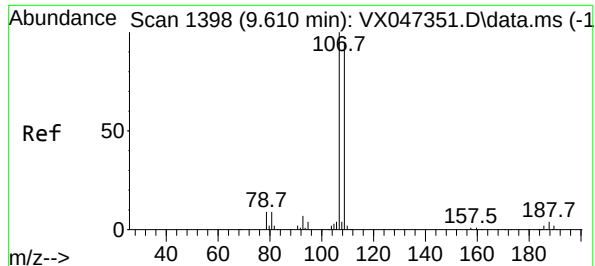
Tgt Ion:129 Resp: 175911

Ion Ratio Lower Upper

129 100

127 77.0 38.9 116.6





#61
1,2-Dibromoethane
Concen: 47.971 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

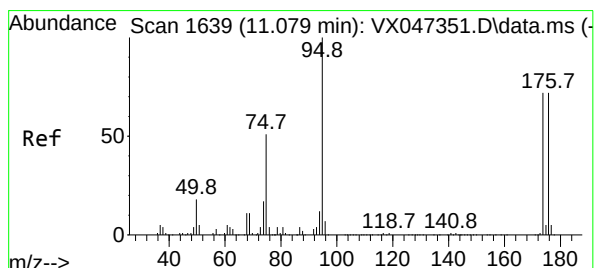
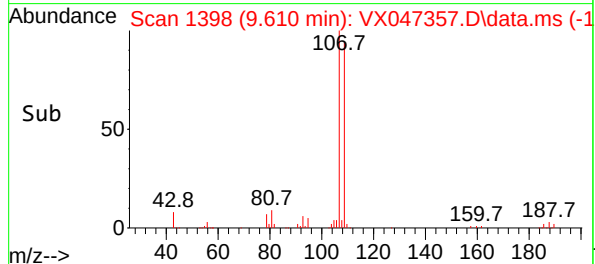
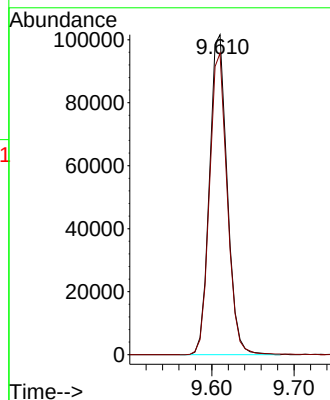
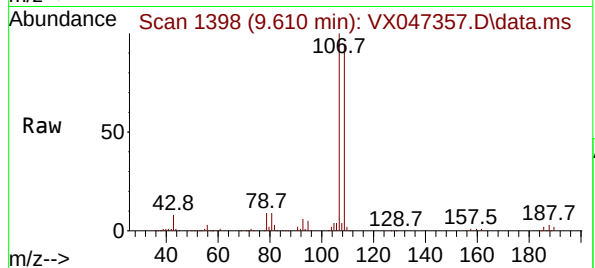
ClientSampleId :

ICVX081525

Tgt Ion:107 Resp: 152160
Ion Ratio Lower Upper
107 100
109 94.5 76.2 114.2

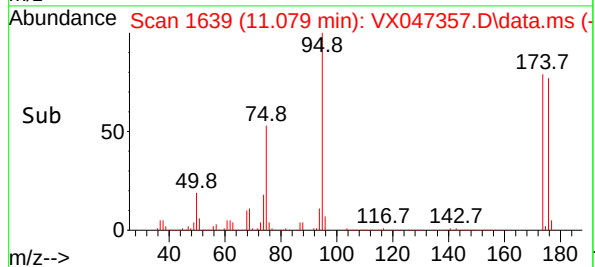
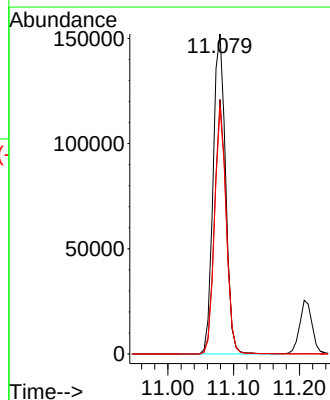
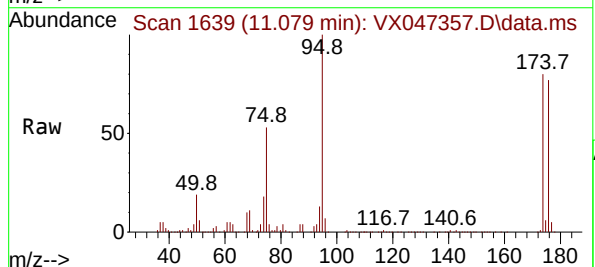
Manual Integrations
APPROVED

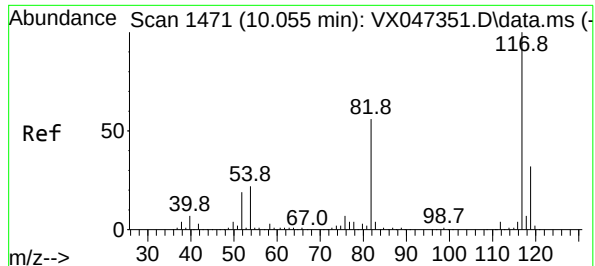
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#62
4-Bromofluorobenzene
Concen: 54.723 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

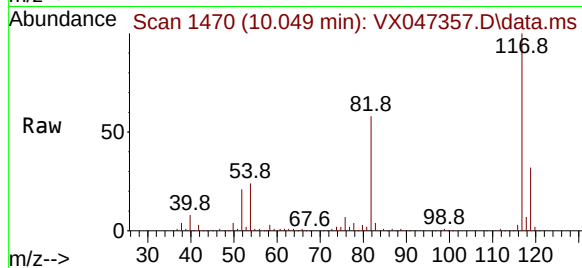
Tgt Ion: 95 Resp: 200280
Ion Ratio Lower Upper
95 100
174 74.5 0.0 148.0
176 72.2 0.0 145.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

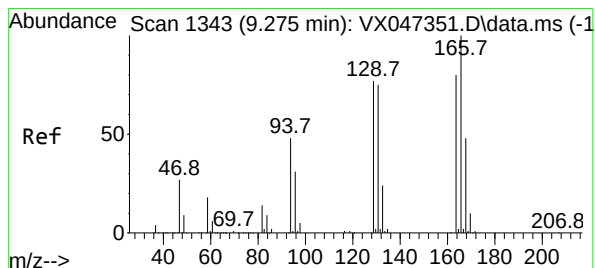
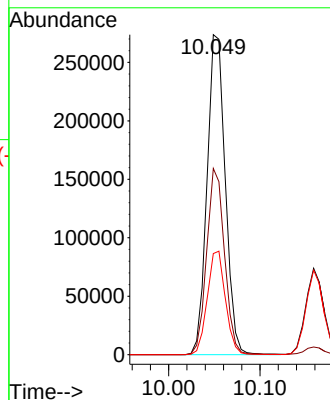
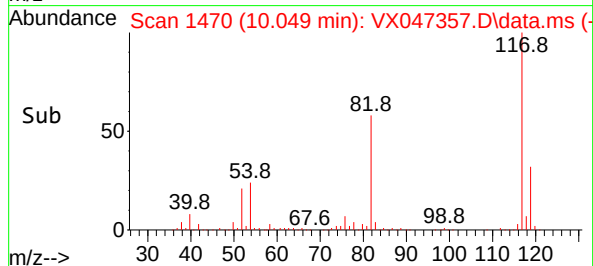
Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525



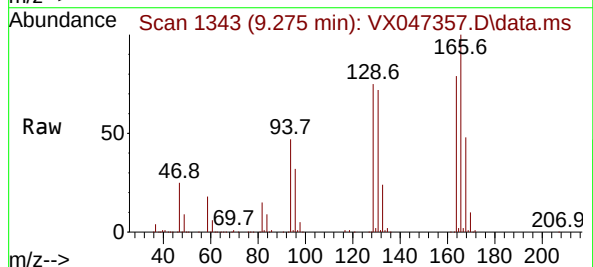
Tgt Ion:117 Resp: 379004
Ion Ratio Lower Upper
117 100
82 58.2 45.0 67.4
119 31.6 25.8 38.8

Manual Integrations
APPROVED

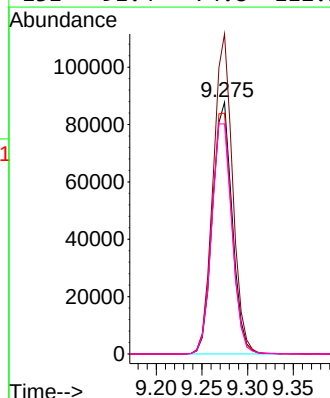
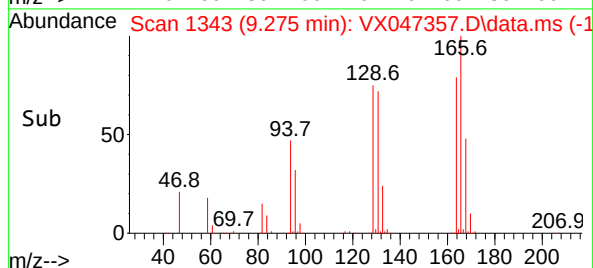
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

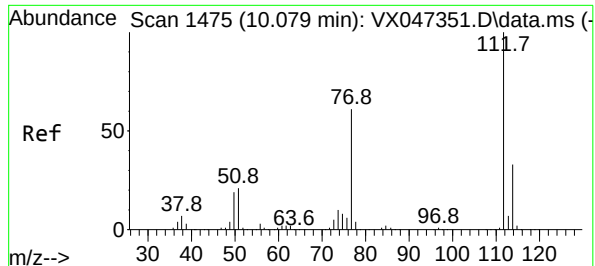


#64
Tetrachloroethene
Concen: 47.871 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11



Tgt Ion:164 Resp: 131233
Ion Ratio Lower Upper
164 100
166 127.1 100.3 150.5
129 95.7 77.7 116.5
131 91.4 74.8 112.2





#65

Chlorobenzene

Concen: 47.724 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion:112 Resp: 429835

Ion Ratio Lower Upper

112 100

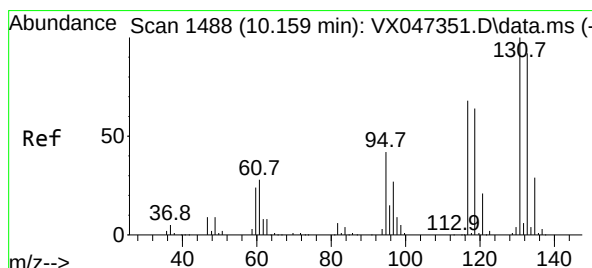
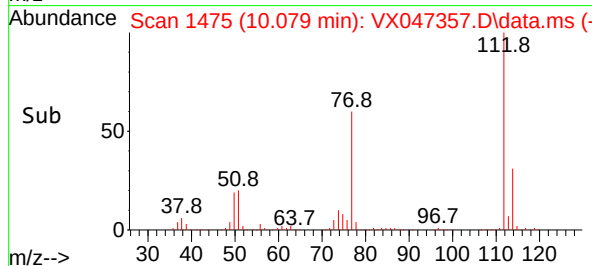
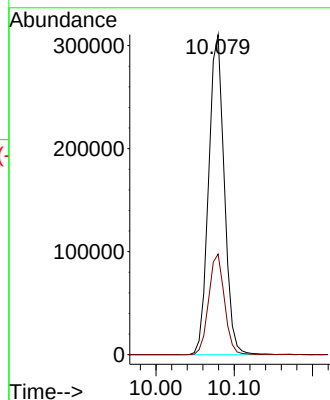
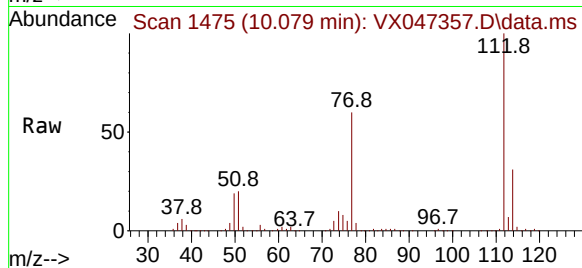
114 31.4 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 48.099 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

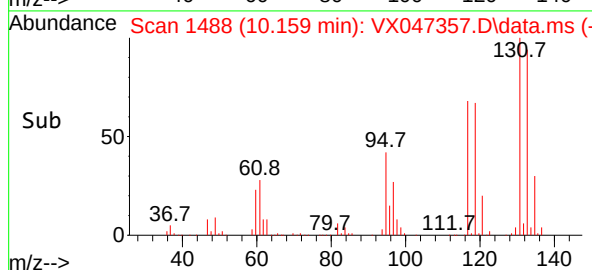
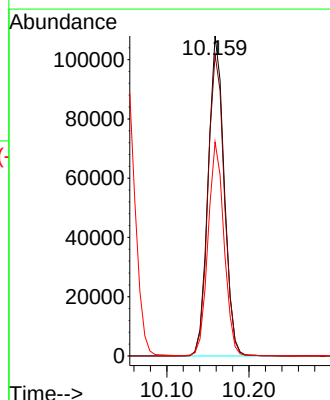
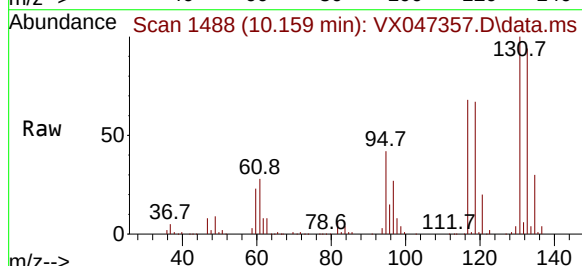
Tgt Ion:131 Resp: 146443

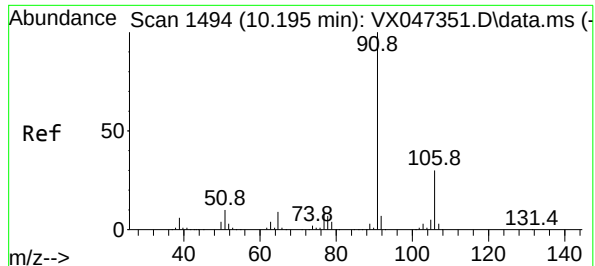
Ion Ratio Lower Upper

131 100

133 95.9 47.6 142.9

119 66.6 32.3 96.8





#67

Ethyl Benzene

Concen: 48.829 ug/l

RT: 10.189 min Scan# 1494

Delta R.T. -0.006 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

Tgt Ion: 91 Resp: 756938

Ion Ratio Lower Upper

91 100

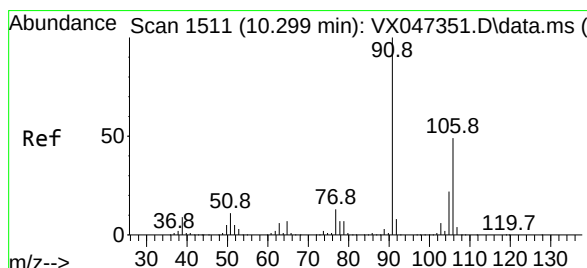
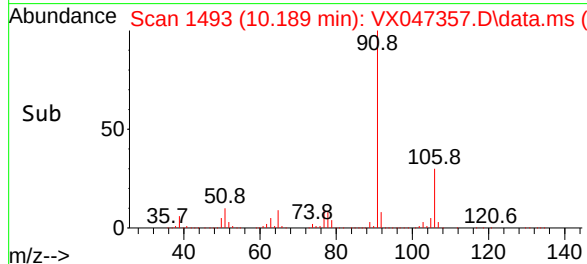
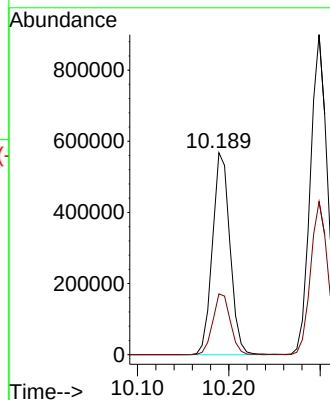
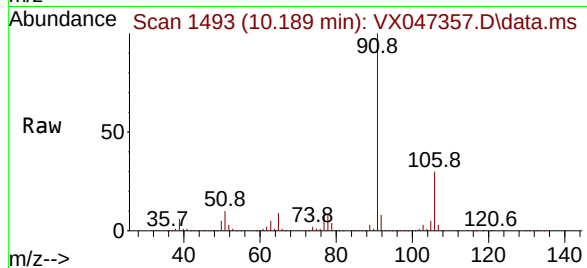
106 30.1 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#68

m/p-Xylenes

Concen: 98.705 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX047357.D

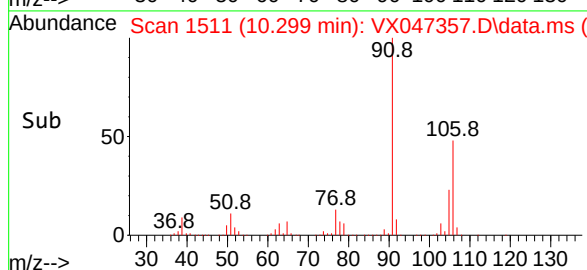
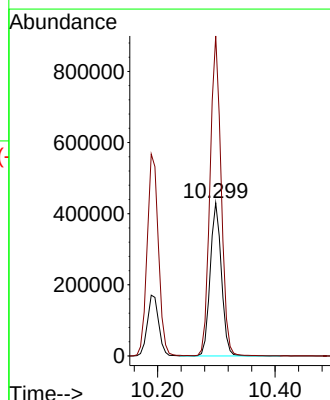
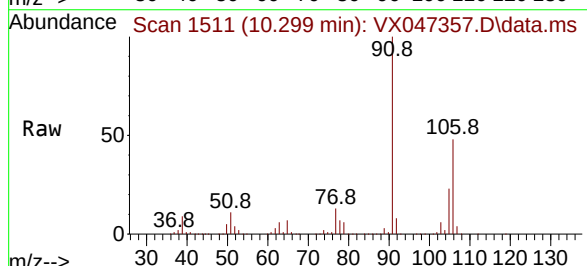
Acq: 15 Aug 2025 13:11

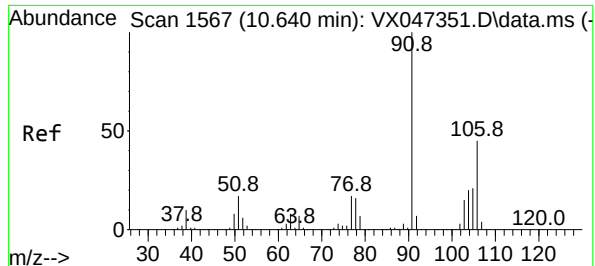
Tgt Ion:106 Resp: 570536

Ion Ratio Lower Upper

106 100

91 207.5 164.7 247.1





#69

o-Xylene

Concen: 49.223 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion:106 Resp: 273804

Ion Ratio Lower Upper

106 100

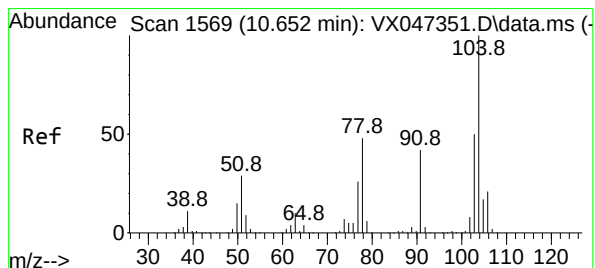
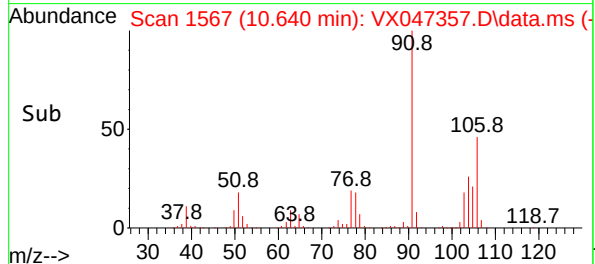
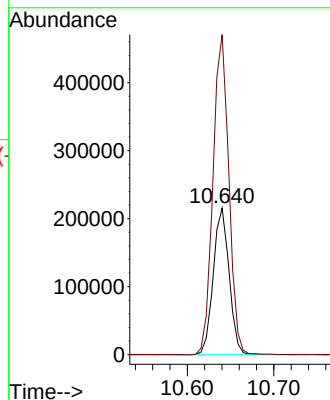
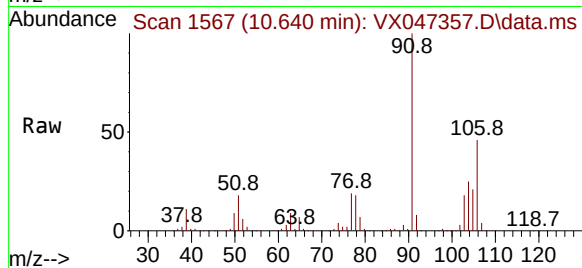
91 219.2 110.6 331.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#70

Styrene

Concen: 50.176 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

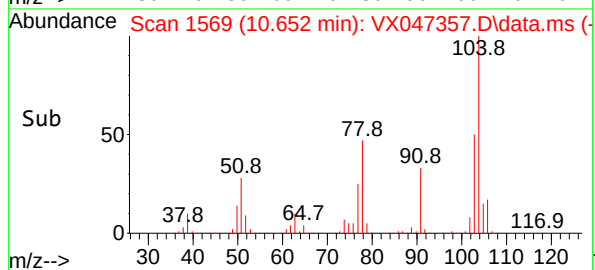
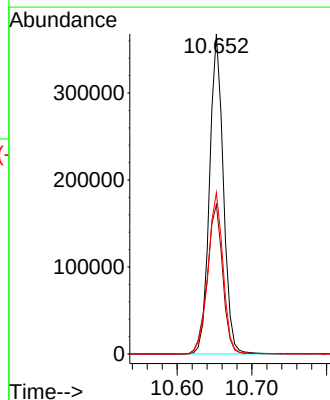
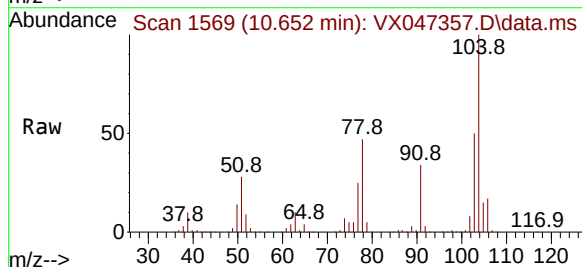
Tgt Ion:104 Resp: 471591

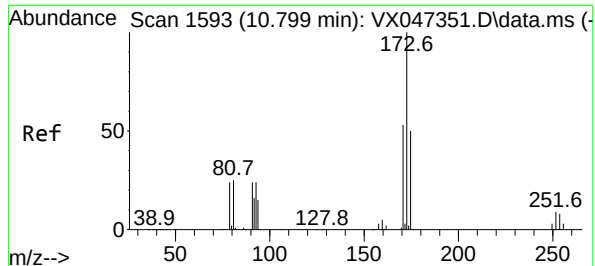
Ion Ratio Lower Upper

104 100

78 52.1 41.8 62.8

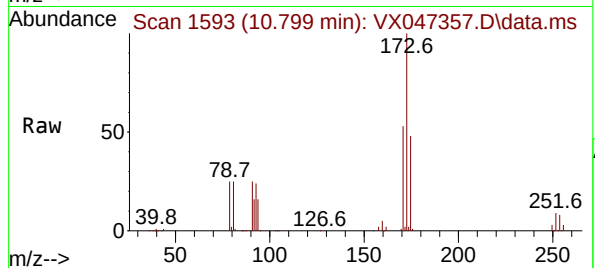
103 55.0 43.6 65.4





#71
Bromoform
Concen: 48.446 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

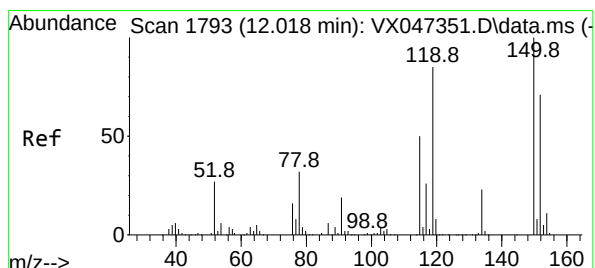
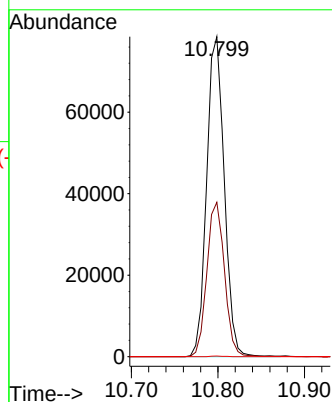
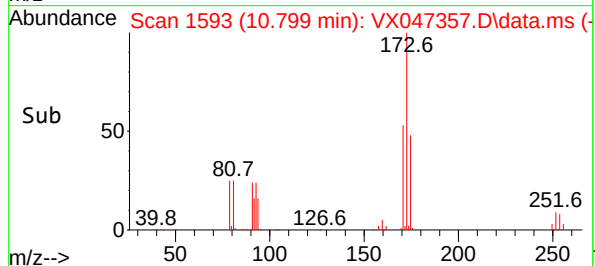
Instrument :
MSVOA_X
ClientSampleId :
ICVX081525



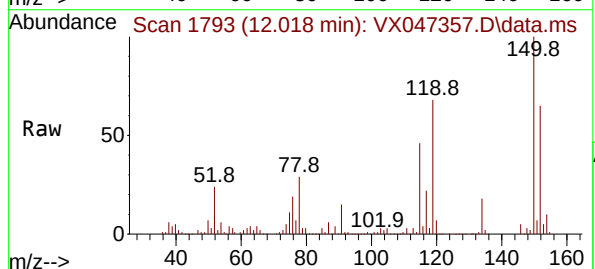
Tgt Ion:173 Resp: 110810
Ion Ratio Lower Upper
173 100
175 48.5 24.4 73.4
254 0.2 0.1 0.1

Manual Integrations
APPROVED

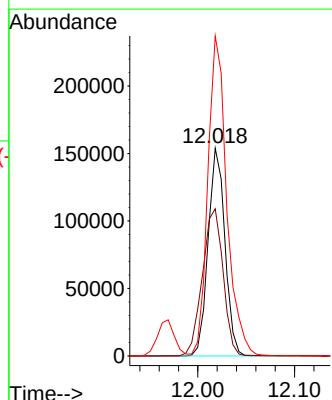
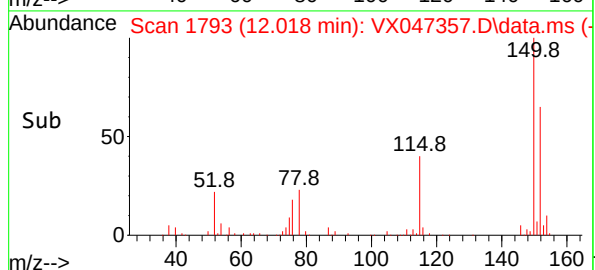
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

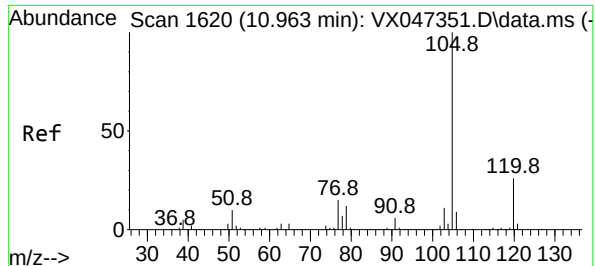


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11



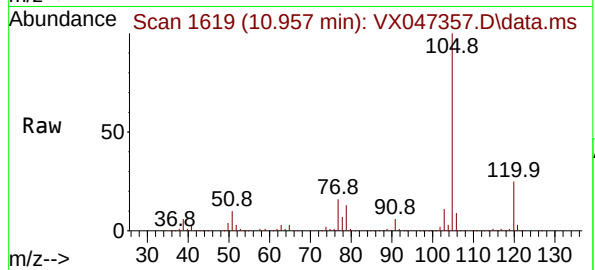
Tgt Ion:152 Resp: 185789
Ion Ratio Lower Upper
152 100
115 87.4 44.6 133.8
150 172.7 0.0 349.8





#73
Isopropylbenzene
Concen: 49.432 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

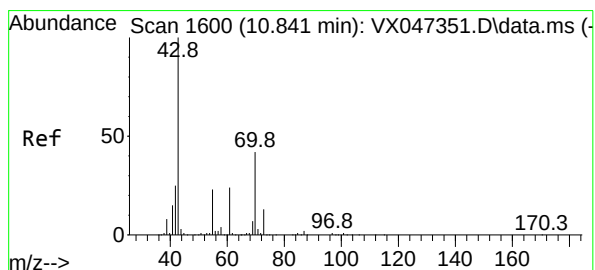
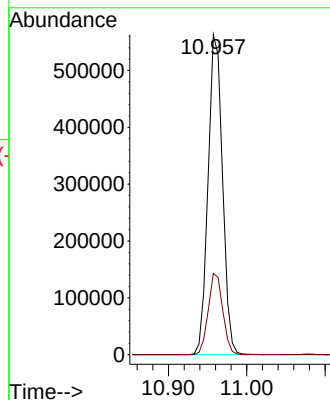
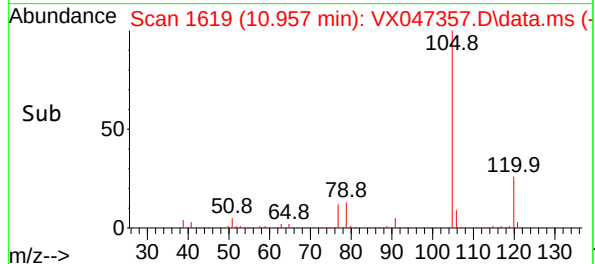
Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525



Tgt Ion: 105 Resp: 718690
Ion Ratio Lower Upper
105 100
120 25.5 12.9 38.6

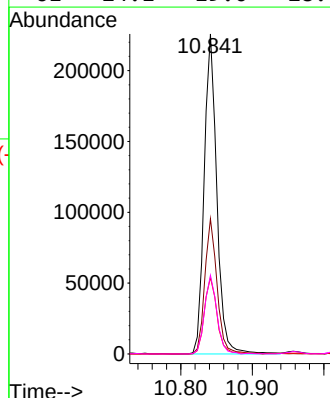
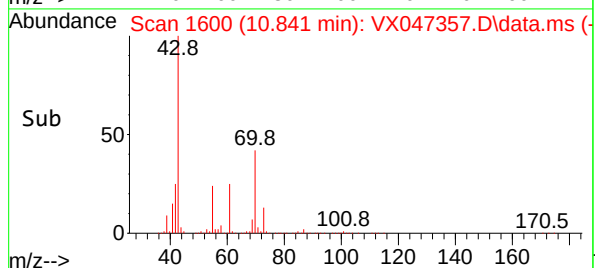
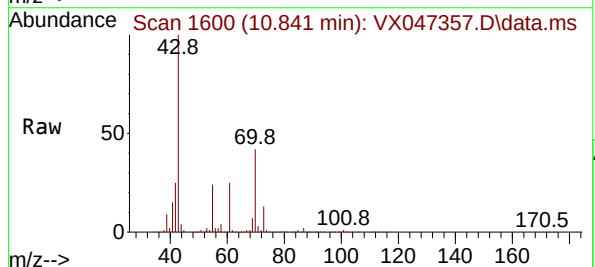
Manual Integrations
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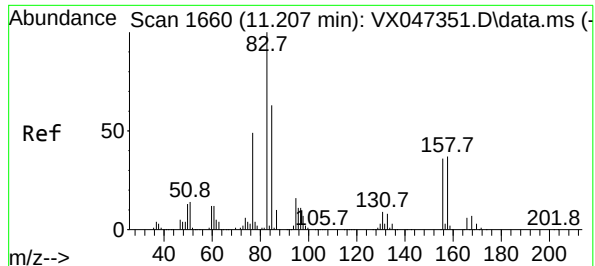
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#74
N-ethyl acetate
Concen: 50.217 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

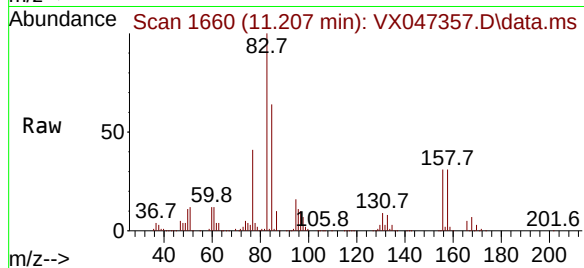
Tgt Ion: 43 Resp: 277245
Ion Ratio Lower Upper
43 100
70 41.4 33.1 49.7
55 24.1 19.0 28.6
61 24.1 19.0 28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 48.087 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

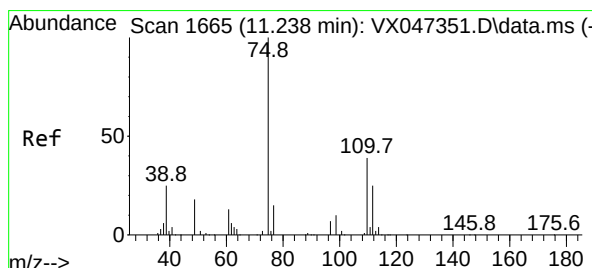
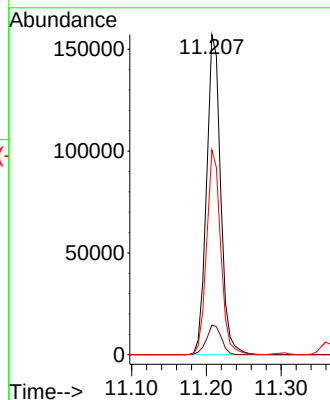
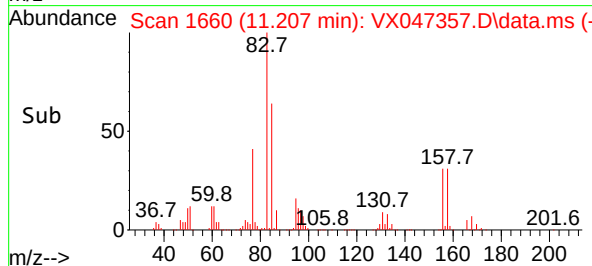
Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525



Tgt Ion: 83 Resp: 20526
Ion Ratio Lower Upper
83 100
131 9.8 5.0 15.0
85 63.9 31.7 95.1

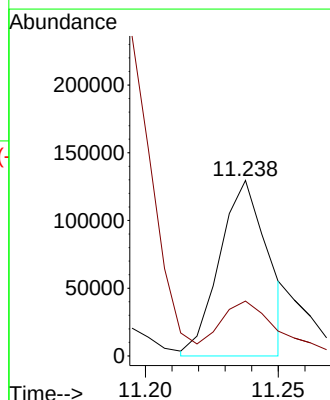
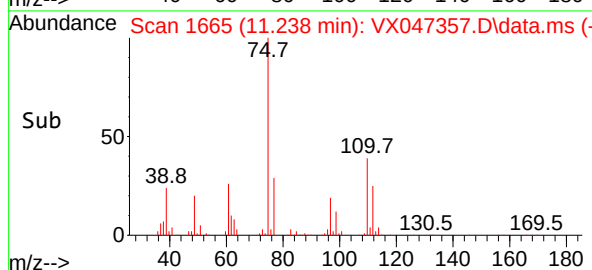
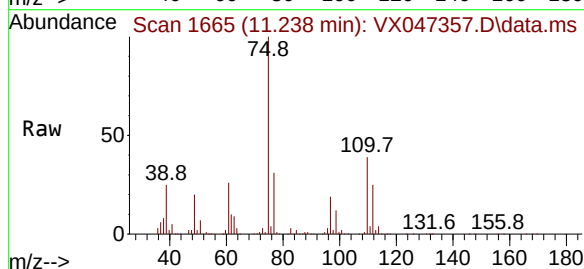
Manual Integrations
APPROVED

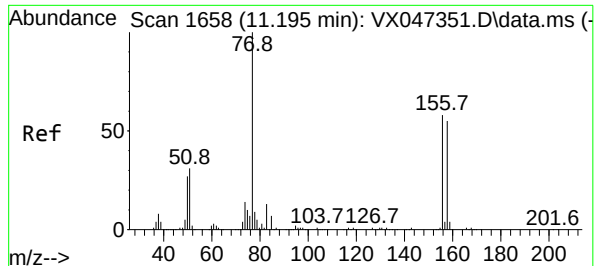
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#76
1,2,3-Trichloropropane
Concen: 47.911 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 75 Resp: 163259
Ion Ratio Lower Upper
75 100
77 38.5 19.4 58.2





#77

Bromobenzene

Concen: 48.465 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

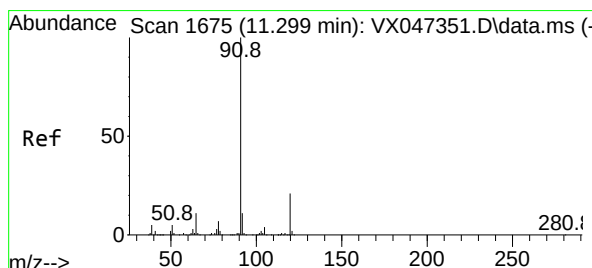
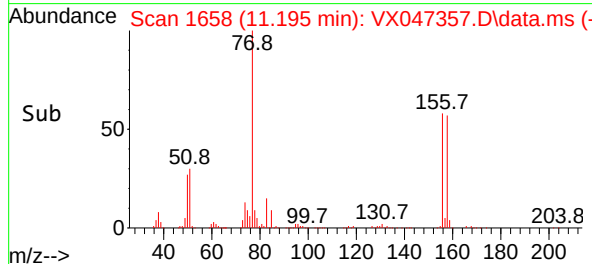
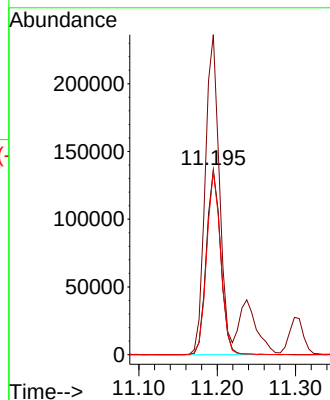
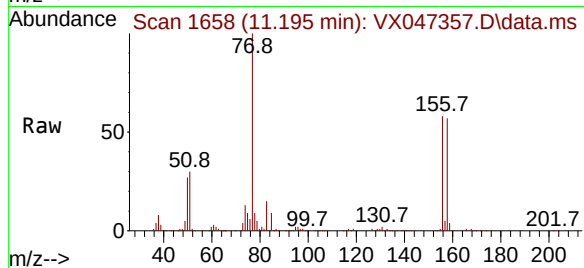
ICVVX081525

Tgt Ion:	156	Resp:	172064
Ion	Ratio	Lower	Upper
156	100		
77	172.7	86.3	258.9
158	97.7	48.0	144.2

Manual Integrations
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Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#78

n-propylbenzene

Concen: 49.351 ug/l

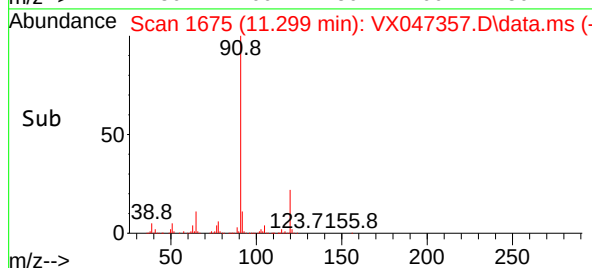
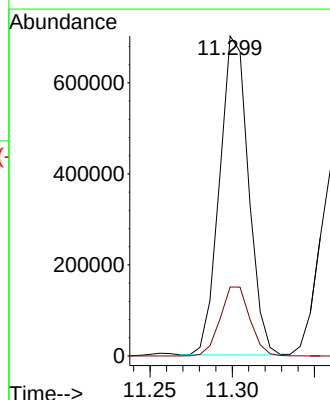
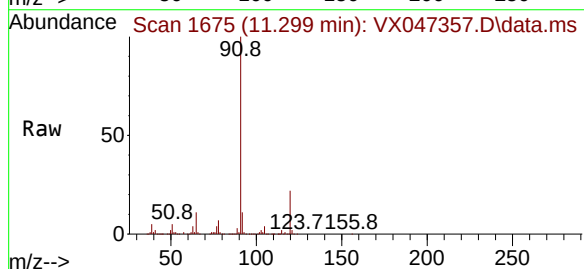
RT: 11.299 min Scan# 1675

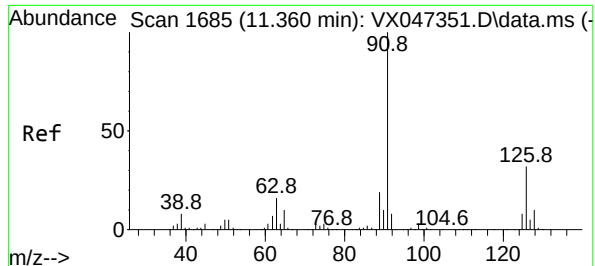
Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Tgt Ion:	91	Resp:	856923
Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0





#79

2-Chlorotoluene

Concen: 48.241 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

Tgt Ion: 91 Resp: 50636

Ion Ratio Lower Upper

91 100

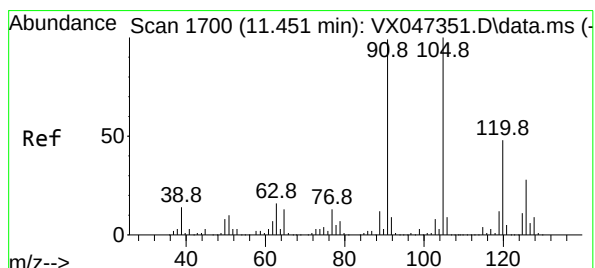
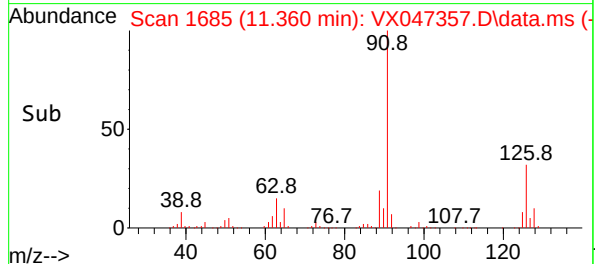
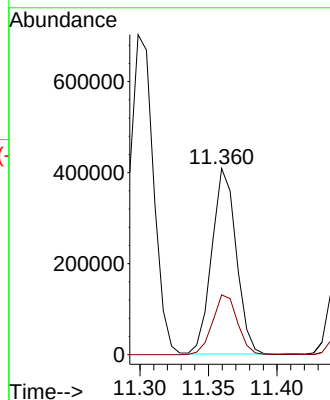
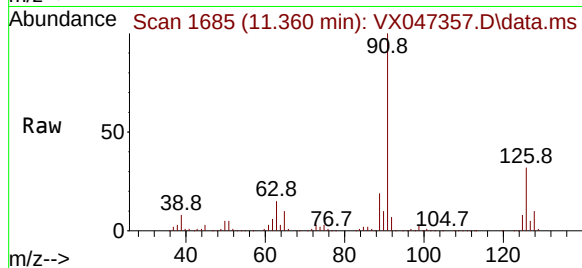
126 32.9 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 49.013 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX047357.D

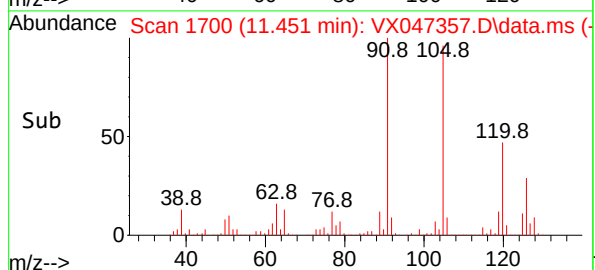
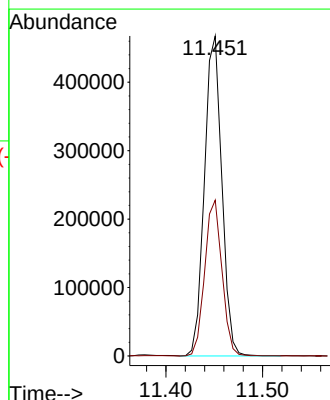
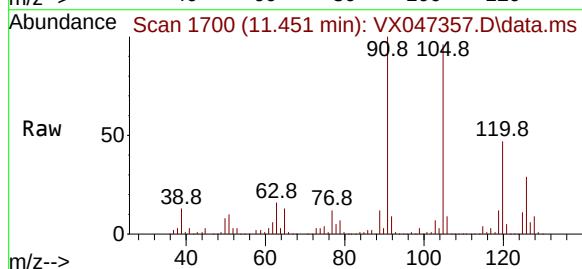
Acq: 15 Aug 2025 13:11

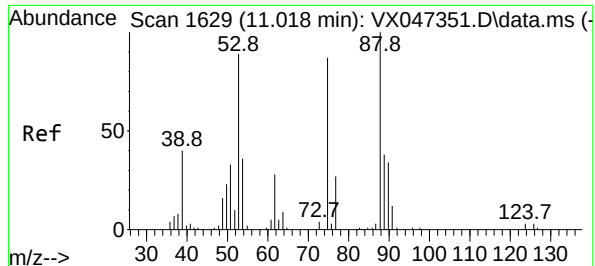
Tgt Ion:105 Resp: 586315

Ion Ratio Lower Upper

105 100

120 48.3 23.9 71.7





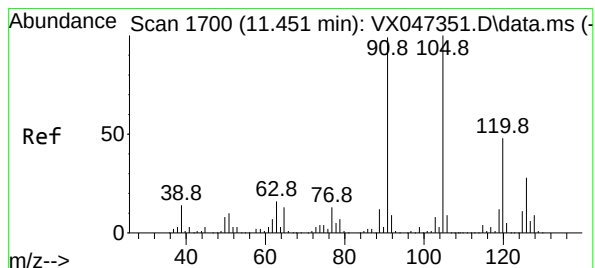
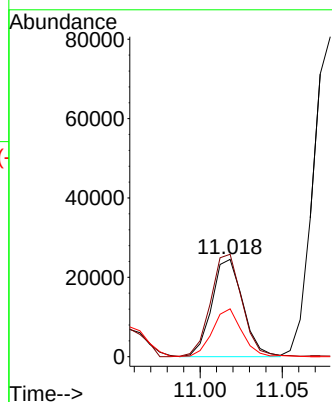
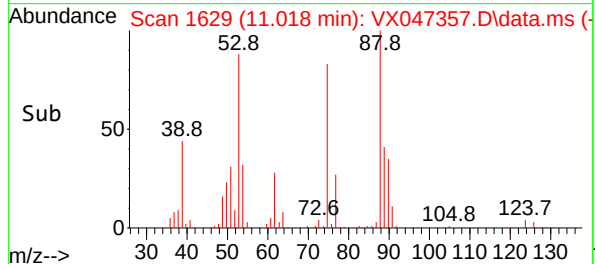
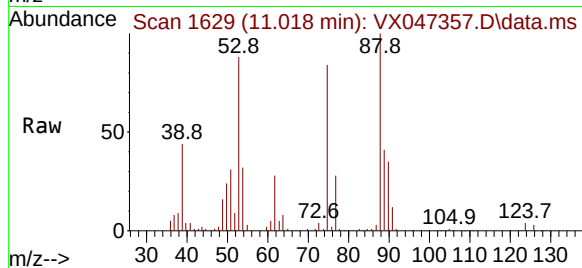
#81
trans-1,4-Dichloro-2-butene
Concen: 42.686 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion: 75 Resp: 32392
Ion Ratio Lower Upper
75 100
53 106.1 85.2 127.8
89 46.5 36.7 55.1

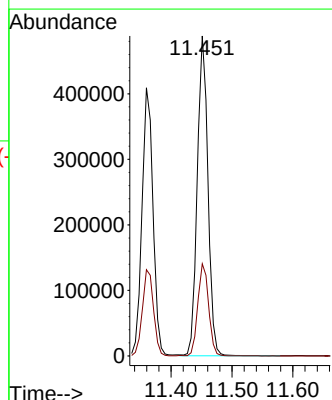
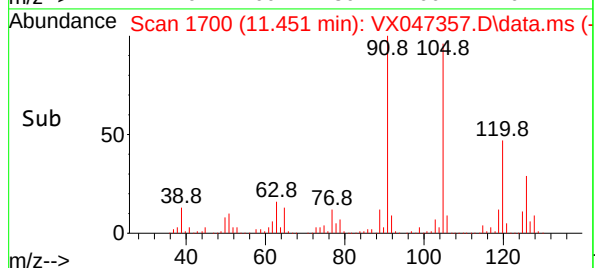
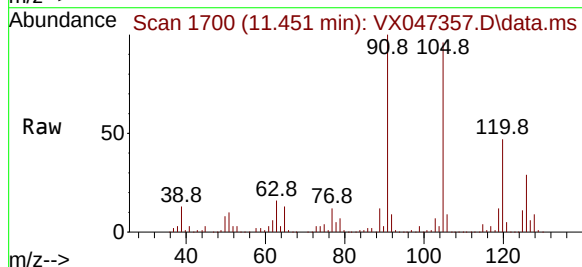
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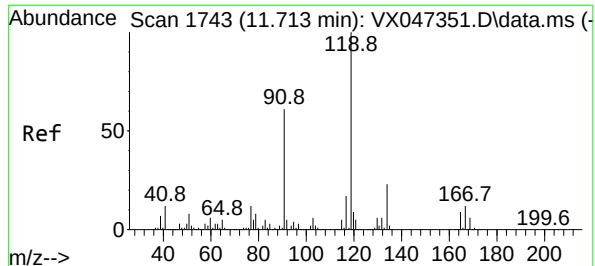
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#82
4-Chlorotoluene
Concen: 47.889 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 91 Resp: 592542
Ion Ratio Lower Upper
91 100
126 29.2 14.4 43.0





#83

tert-Butylbenzene

Concen: 49.841 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion:119 Resp: 59483

Ion Ratio Lower Upper

119 100

91 57.9 29.1 87.4

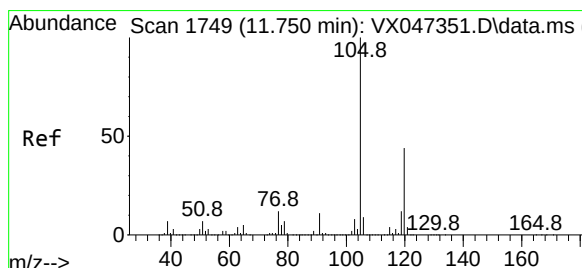
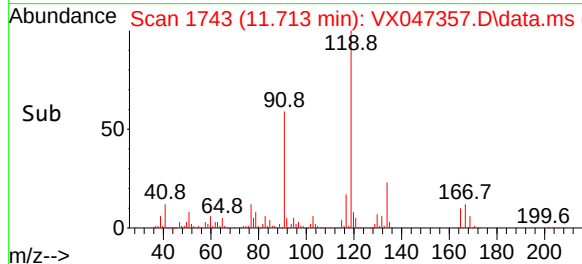
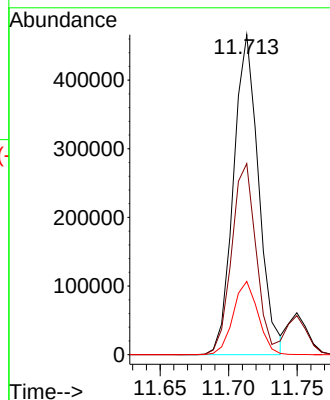
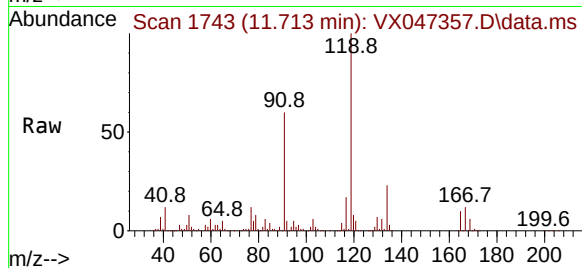
134 22.7 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 49.796 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047357.D

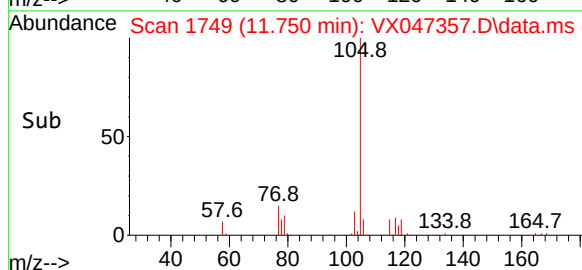
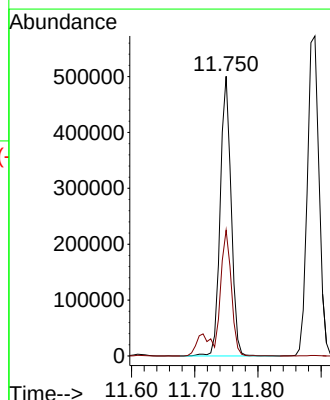
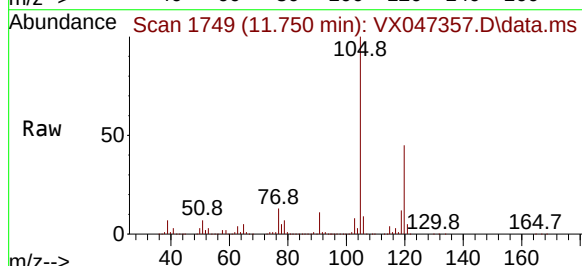
Acq: 15 Aug 2025 13:11

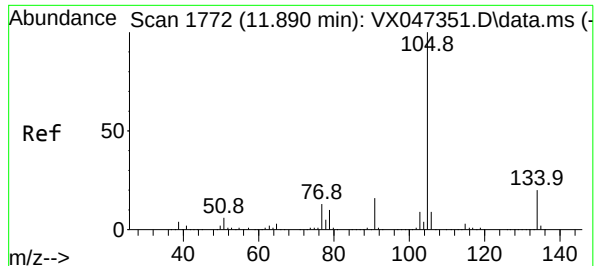
Tgt Ion:105 Resp: 595697

Ion Ratio Lower Upper

105 100

120 43.1 21.9 65.7





#85

sec-Butylbenzene

Concen: 49.507 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion:105 Resp: 732328

Ion Ratio Lower Upper

105 100

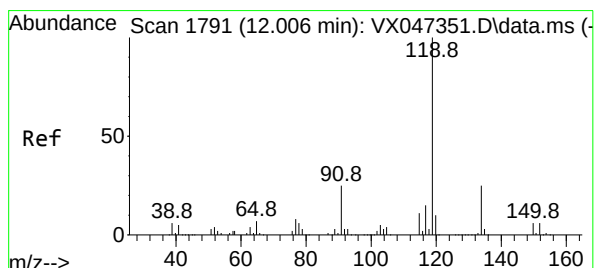
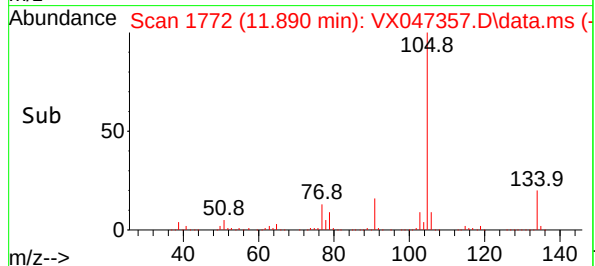
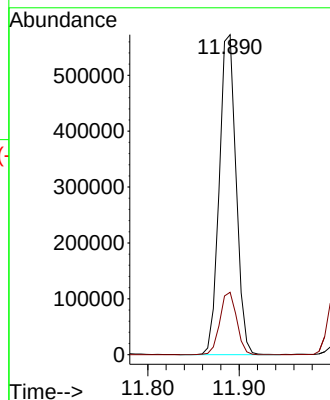
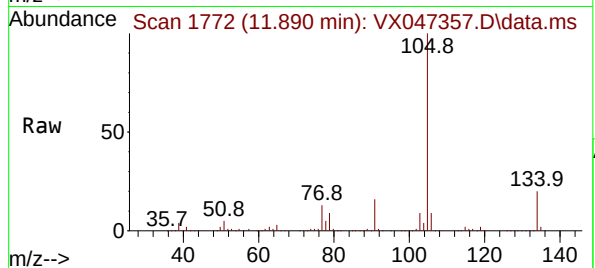
134 19.5 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#86

p-Isopropyltoluene

Concen: 49.332 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

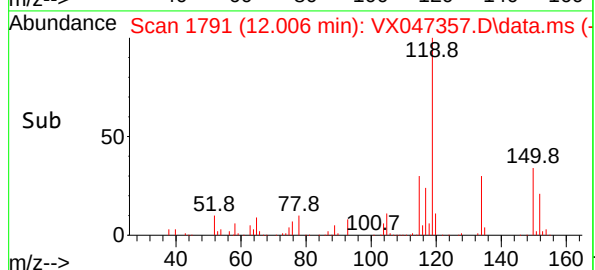
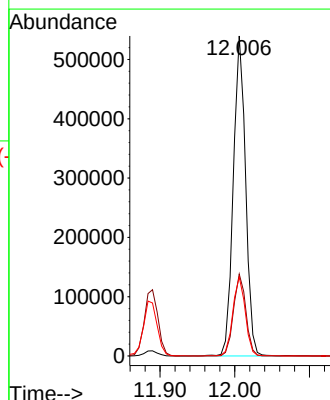
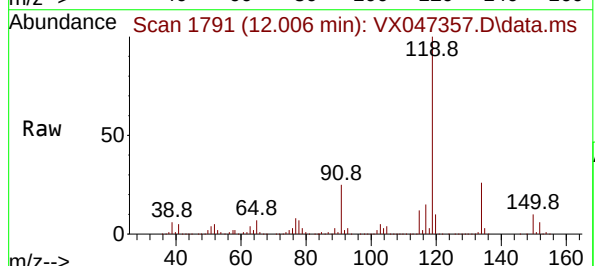
Tgt Ion:119 Resp: 617508

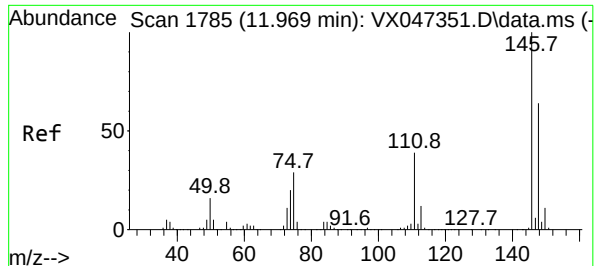
Ion Ratio Lower Upper

119 100

134 25.8 12.8 38.4

91 25.0 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 47.926 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion:146 Resp: 32505

Ion Ratio Lower Upper

146 100

111 41.2 20.6 61.8

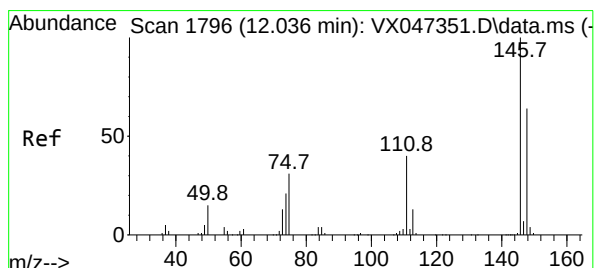
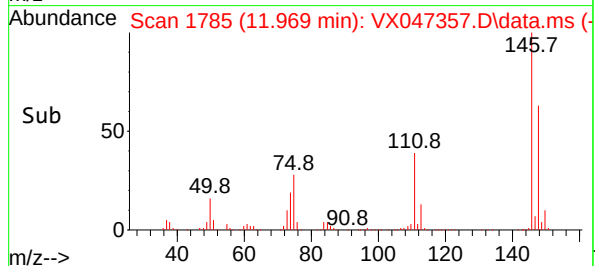
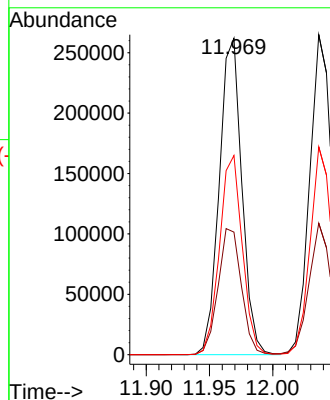
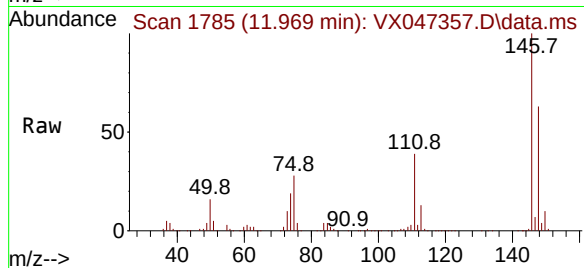
148 63.4 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#88

1,4-Dichlorobenzene

Concen: 46.752 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

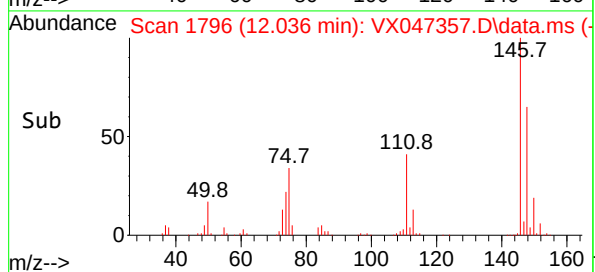
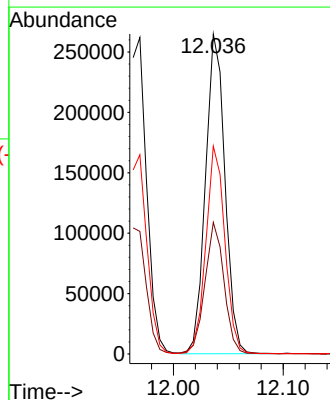
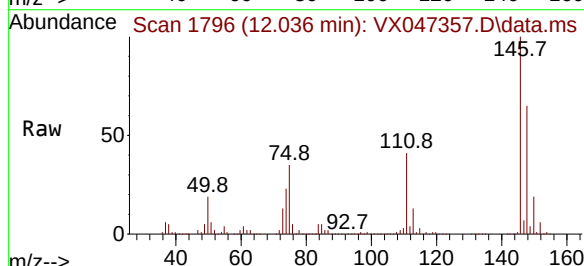
Tgt Ion:146 Resp: 326132

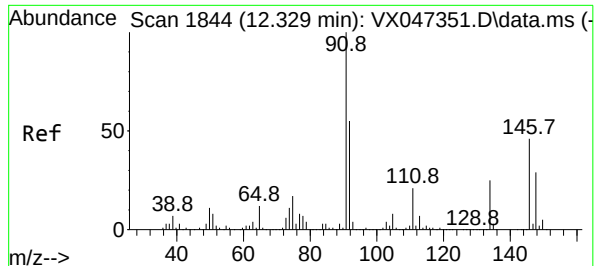
Ion Ratio Lower Upper

146 100

111 40.7 20.4 61.2

148 63.8 31.7 95.1





#89

n-Butylbenzene

Concen: 49.556 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX081525

Tgt Ion: 91 Resp: 57696

Ion Ratio Lower Upper

91 100

92 53.7 27.2 81.5

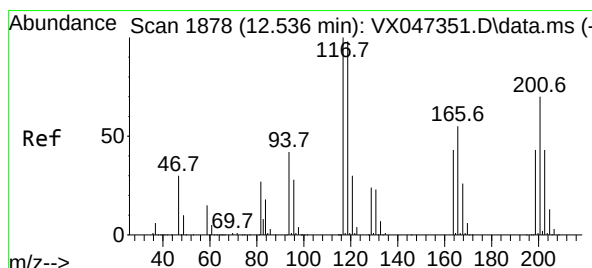
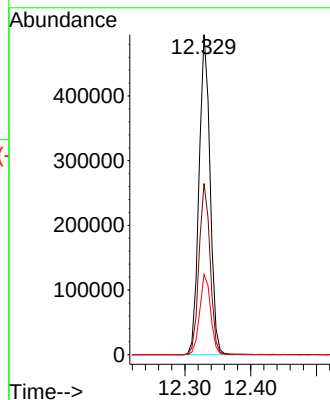
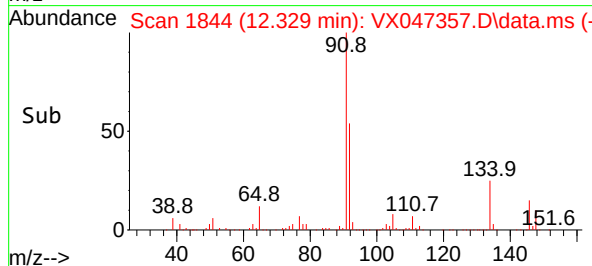
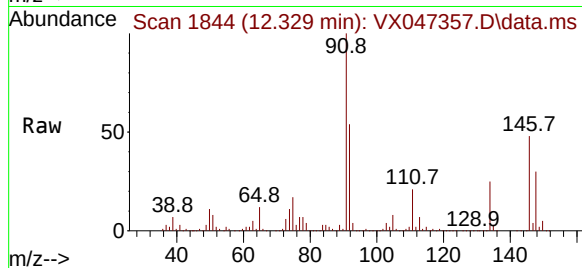
134 24.9 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#90

Hexachloroethane

Concen: 48.749 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047357.D

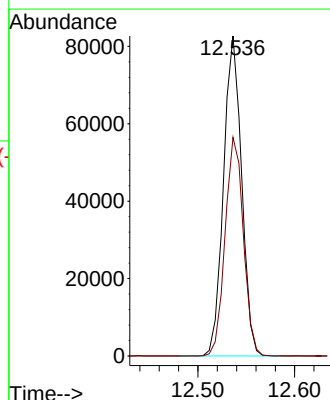
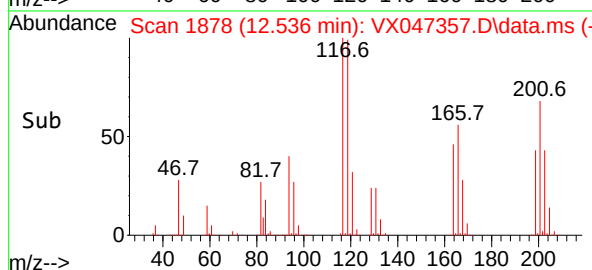
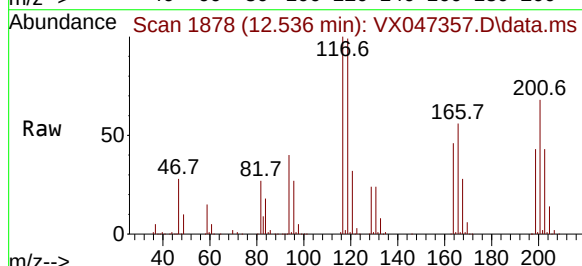
Acq: 15 Aug 2025 13:11

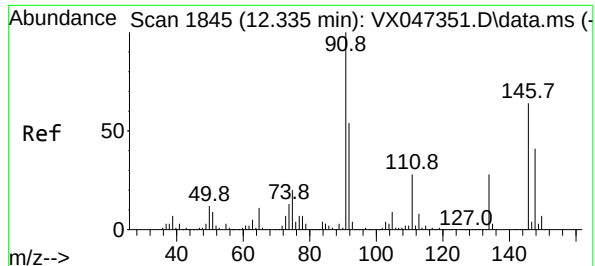
Tgt Ion:117 Resp: 107051

Ion Ratio Lower Upper

117 100

201 69.1 35.1 105.3





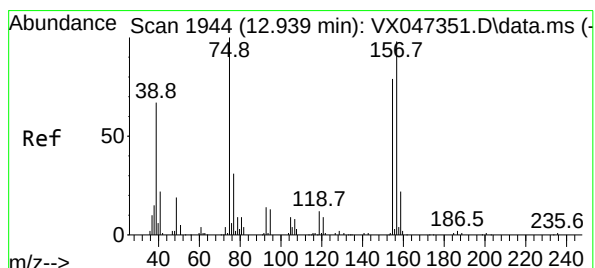
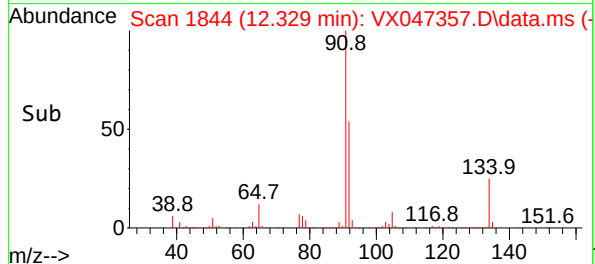
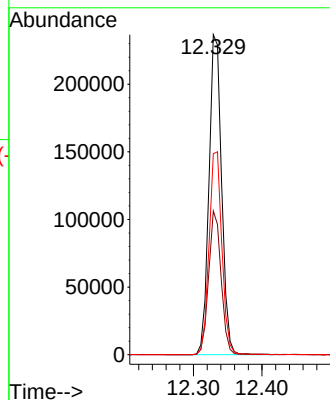
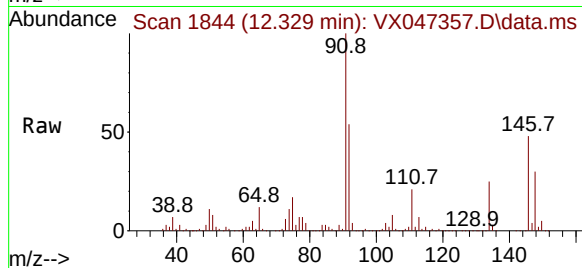
#91
1,2-Dichlorobenzene
Concen: 47.283 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.006 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Tgt Ion:146 Resp: 30439
Ion Ratio Lower Upper
146 100
111 44.2 22.1 66.1
148 64.4 31.9 95.5

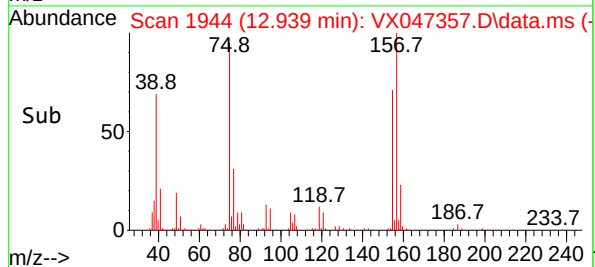
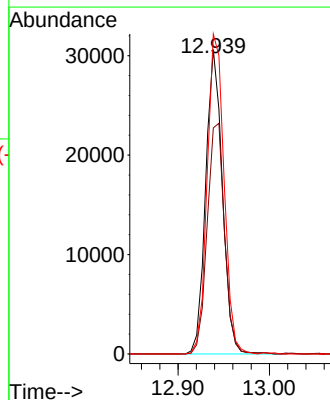
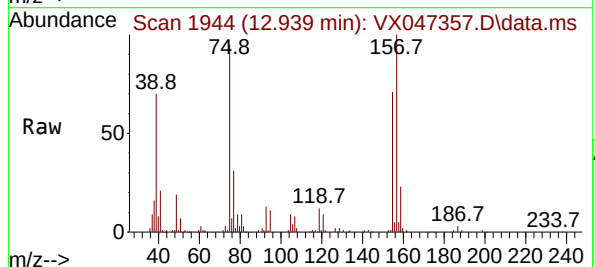
Manual Integrations
APPROVED

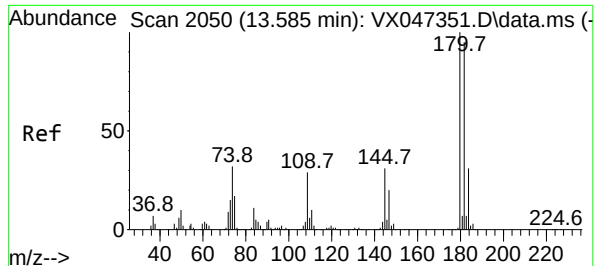
Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 47.135 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047357.D
Acq: 15 Aug 2025 13:11

Tgt Ion: 75 Resp: 38911
Ion Ratio Lower Upper
75 100
155 78.6 41.3 123.7
157 106.0 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 47.926 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

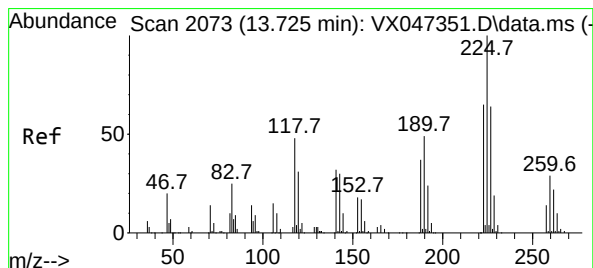
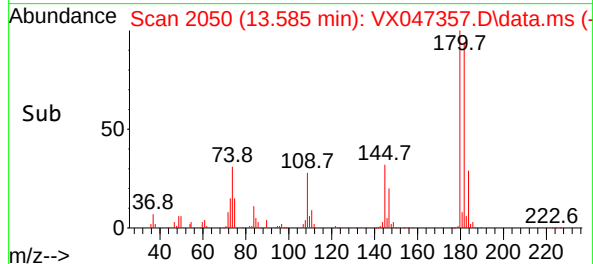
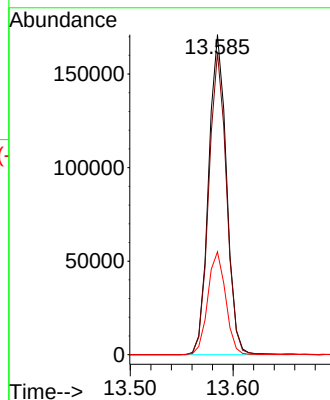
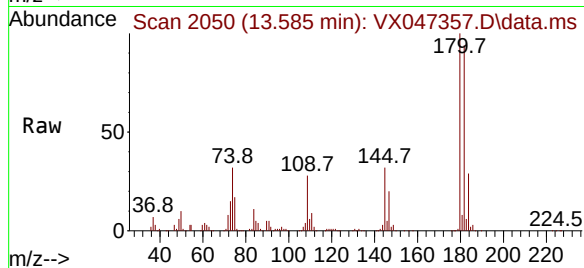
Tgt Ion:	180	Resp:	20683
Ion Ratio	Lower	Upper	
180	100		
182	93.8	48.1	144.4
145	32.2	16.2	48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#94

Hexachlorobutadiene

Concen: 42.967 ug/l

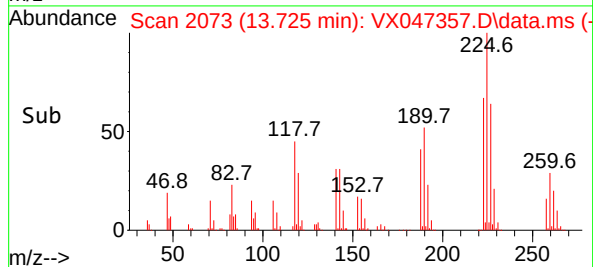
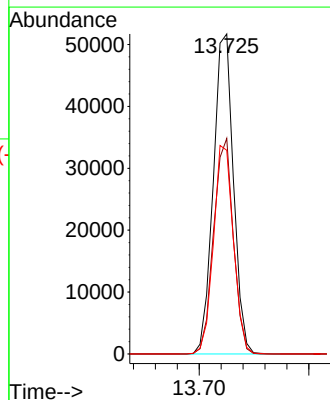
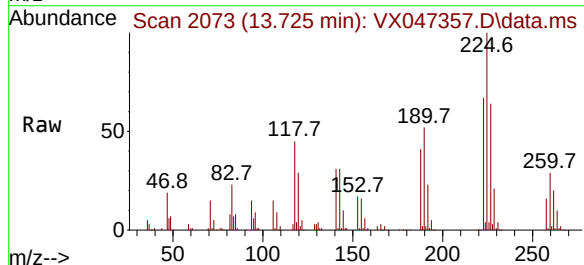
RT: 13.725 min Scan# 2073

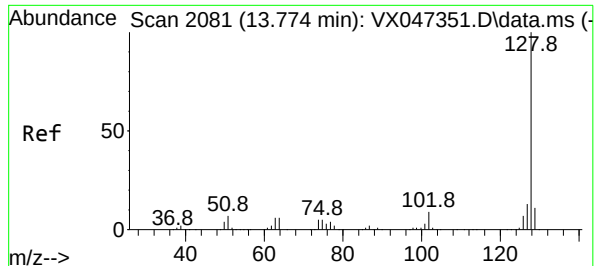
Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Tgt Ion:	225	Resp:	66005
Ion Ratio	Lower	Upper	
225	100		
223	65.6	32.2	96.6
227	64.6	31.6	95.0





#95

Naphthalene

Concen: 49.026 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX081525

Tgt Ion:128 Resp: 604650

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

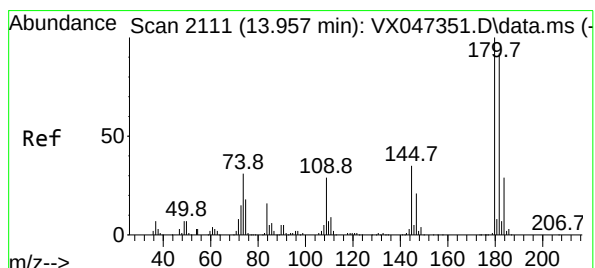
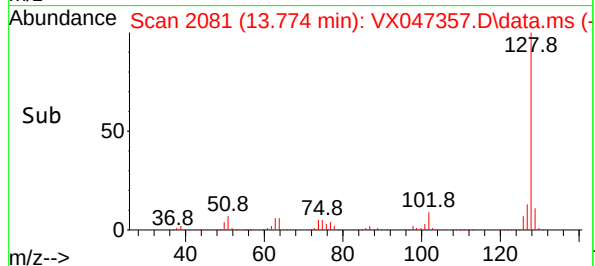
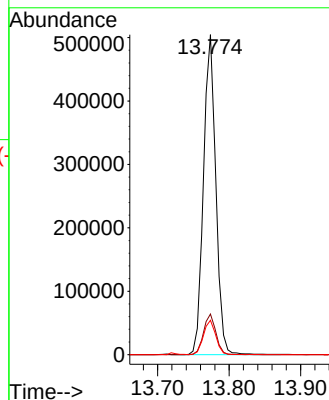
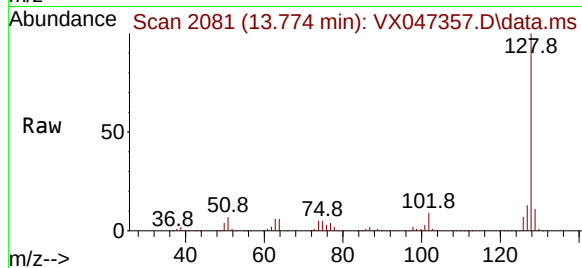
129 10.8 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/18/2025

Supervised By :Mahesh Dadoda 08/19/2025



#96

1,2,3-Trichlorobenzene

Concen: 47.822 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX047357.D

Acq: 15 Aug 2025 13:11

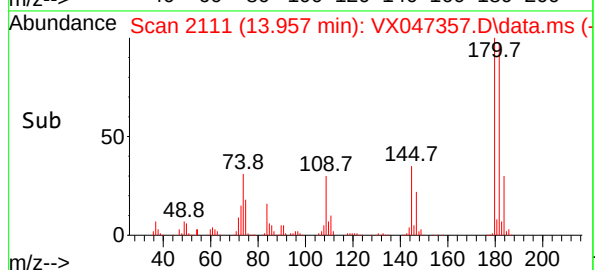
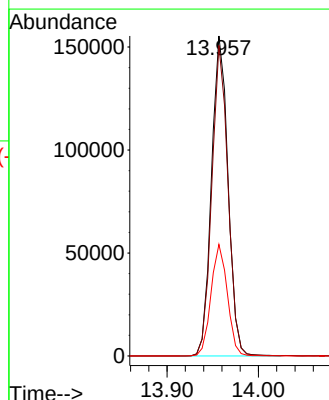
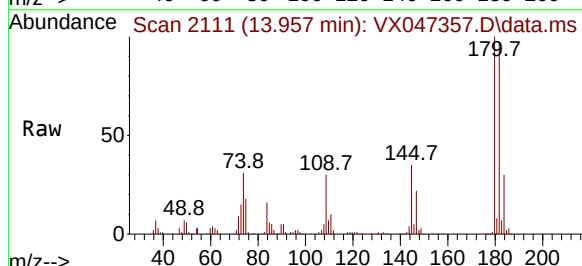
Tgt Ion:180 Resp: 194540

Ion Ratio Lower Upper

180 100

182 95.1 48.0 144.2

145 34.6 17.4 52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\X081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	105	-0.01
2 T	Dichlorodifluoromethane	0.637	0.663	-4.1	95	0.00
3 P	Chloromethane	0.573	0.573	0.0	97	0.00
4 C	Vinyl Chloride	0.720	0.732	-1.7#	96	0.00
5 T	Bromomethane	0.291	0.326	-12.0	102	0.00
6 T	Chloroethane	0.440	0.435	1.1	99	0.00
7 T	Trichlorofluoromethane	1.065	1.062	0.3	94	0.00
8 T	Diethyl Ether	0.375	0.376	-0.3	95	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.618	0.619	-0.2	93	0.00
10 T	Methyl Iodide	1.058	0.950	10.2	86	0.00
11 T	Tert butyl alcohol	0.061	0.056	8.2	86	0.00
12 CM	1,1-Dichloroethene	0.630	0.634	-0.6#	96	0.00
13 T	Acrolein	0.129	0.106	17.8	85	0.00
14 T	Allyl chloride	1.093	1.083	0.9	94	0.00
15 T	Acrylonitrile	0.294	0.294	0.0	91	0.00
16 T	Acetone	0.263	0.259	1.5	97	0.00
17 T	Carbon Disulfide	1.900	1.825	3.9	96	0.00
18 T	Methyl Acetate	0.682	0.651	4.5	89	0.00
19 T	Methyl tert-butyl Ether	1.915	1.918	-0.2	93	0.00
20 T	Methylene Chloride	0.697	0.693	0.6	96	0.00
21 T	trans-1,2-Dichloroethene	0.668	0.660	1.2	96	0.00
22 T	Diisopropyl ether	2.161	2.220	-2.7	95	0.00
23 T	Vinyl Acetate	1.772	1.805	-1.9	93	0.00
24 P	1,1-Dichloroethane	1.222	1.212	0.8	94	0.00
25 T	2-Butanone	0.344	0.336	2.3	91	0.00
26 T	2,2-Dichloropropane	0.922	0.926	-0.4	96	-0.01
27 T	cis-1,2-Dichloroethene	0.778	0.771	0.9	96	0.00
28 T	Bromochloromethane	0.508	0.581	-14.4	113	0.00
29 T	Tetrahydrofuran	0.223	0.214	4.0	92	0.00
30 C	Chloroform	1.247	1.223	1.9#	94	0.00
31 T	Cyclohexane	1.126	1.060	5.9	92	0.00
32 T	1,1,1-Trichloroethane	1.073	1.052	2.0	92	0.00
33 S	1,2-Dichloroethane-d4	0.700	0.766	-9.4	115	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.325	0.360	-10.8	115	0.00
36 T	1,1-Dichloropropene	0.512	0.488	4.7	91	0.00
37 T	Ethyl Acetate	0.532	0.502	5.6	90	0.00
38 T	Carbon Tetrachloride	0.560	0.531	5.2	92	0.00
39 T	Methylcyclohexane	0.639	0.602	5.8	91	-0.01
40 TM	Benzene	1.533	1.493	2.6	92	0.00
41 T	Methacrylonitrile	0.224	0.219	2.2	89	0.00
42 TM	1,2-Dichloroethane	0.543	0.529	2.6	93	-0.01
43 T	Isopropyl Acetate	0.764	0.745	2.5	90	0.00
44 TM	Trichloroethene	0.393	0.377	4.1	92	0.00
45 C	1,2-Dichloropropane	0.384	0.375	2.3#	94	0.00
46 T	Dibromomethane	0.279	0.271	2.9	94	0.00
47 T	Bromodichloromethane	0.578	0.556	3.8	92	0.00
48 T	Methyl methacrylate	0.397	0.385	3.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX081525\
 Data File : VX047357.D
 Acq On : 15 Aug 2025 13:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX081525

Quant Time: Aug 18 04:22:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 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	0.004	0.003	25.0	81	0.00
50 S	Toluene-d8	1.160	1.263	-8.9	114	0.00
51 T	4-Methyl-2-Pentanone	0.440	0.429	2.5	89	0.00
52 CM	Toluene	0.947	0.923	2.5#	92	0.00
53 T	t-1,3-Dichloropropene	0.505	0.512	-1.4	92	0.00
54 T	cis-1,3-Dichloropropene	0.571	0.571	0.0	94	0.00
55 T	1,1,2-Trichloroethane	0.360	0.348	3.3	93	0.00
56 T	Ethyl methacrylate	0.530	0.532	-0.4	91	0.00
57 T	1,3-Dichloropropane	0.613	0.592	3.4	93	0.00
58 T	2-Chloroethyl Vinyl ether	0.211	0.225	-6.6	86	0.00
59 T	2-Hexanone	0.304	0.295	3.0	90	0.00
60 T	Dibromochloromethane	0.428	0.411	4.0	93	0.00
61 T	1,2-Dibromoethane	0.371	0.356	4.0	92	0.00
62 S	4-Bromofluorobenzene	0.428	0.468	-9.3	115	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.362	0.346	4.4	91	0.00
65 PM	Chlorobenzene	1.188	1.134	4.5	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.402	0.386	4.0	91	0.00
67 C	Ethyl Benzene	2.045	1.997	2.3#	92	0.00
68 T	m/p-Xylenes	0.763	0.753	1.3	92	0.00
69 T	o-Xylene	0.734	0.722	1.6	93	0.00
70 T	Styrene	1.240	1.244	-0.3	92	0.00
71 P	Bromoform	0.302	0.292	3.3	91	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	3.913	3.868	1.2	92	0.00
74 T	N-amyl acetate	1.486	1.492	-0.4	90	0.00
75 P	1,1,2,2-Tetrachloroethane	1.149	1.105	3.8	91	0.00
76 T	1,2,3-Trichloropropane	0.917	0.879	4.1	91	0.00
77 T	Bromobenzene	0.955	0.926	3.0	92	0.00
78 T	n-propylbenzene	4.673	4.612	1.3	93	0.00
79 T	2-Chlorotoluene	2.825	2.725	3.5	92	0.00
80 T	1,3,5-Trimethylbenzene	3.219	3.156	2.0	92	0.00
81 T	trans-1,4-Dichloro-2-butene	0.178	0.174	2.2	92	0.00
82 T	4-Chlorotoluene	3.330	3.189	4.2	92	0.00
83 T	tert-Butylbenzene	3.212	3.202	0.3	93	0.00
84 T	1,2,4-Trimethylbenzene	3.219	3.206	0.4	92	0.00
85 T	sec-Butylbenzene	3.981	3.942	1.0	93	0.00
86 T	p-Isopropyltoluene	3.369	3.324	1.3	93	0.00
87 T	1,3-Dichlorobenzene	1.825	1.750	4.1	92	0.00
88 T	1,4-Dichlorobenzene	1.877	1.755	6.5	93	0.00
89 T	n-Butylbenzene	3.133	3.105	0.9	94	0.00
90 T	Hexachloroethane	0.591	0.576	2.5	92	0.00
91 T	1,2-Dichlorobenzene	1.733	1.638	5.5	92	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.222	0.209	5.9	89	0.00
93 T	1,2,4-Trichlorobenzene	1.161	1.113	4.1	95	0.00
94 T	Hexachlorobutadiene	0.413	0.355	14.0	92	0.00
95 T	Naphthalene	3.319	3.254	2.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	1.047	4.4	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	105	-0.01
2 T	Dichlorodifluoromethane	50.000	51.981	-4.0	95	0.00
3 P	Chloromethane	50.000	49.973	0.1	97	0.00
4 C	Vinyl Chloride	50.000	50.822	-1.6#	96	0.00
5 T	Bromomethane	50.000	56.066	-12.1	102	0.00
6 T	Chloroethane	50.000	49.421	1.2	99	0.00
7 T	Trichlorofluoromethane	50.000	49.898	0.2	94	0.00
8 T	Diethyl Ether	50.000	50.132	-0.3	95	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.154	-0.3	93	0.00
10 T	Methyl Iodide	50.000	44.887	10.2	86	0.00
11 T	Tert butyl alcohol	250.000	229.494	8.2	86	0.00
12 CM	1,1-Dichloroethene	50.000	50.316	-0.6#	96	0.00
13 T	Acrolein	250.000	207.171	17.1	85	0.00
14 T	Allyl chloride	50.000	49.503	1.0	94	0.00
15 T	Acrylonitrile	250.000	250.094	-0.0	91	0.00
16 T	Acetone	250.000	246.195	1.5	97	0.00
17 T	Carbon Disulfide	50.000	48.034	3.9	96	0.00
18 T	Methyl Acetate	50.000	47.774	4.5	89	0.00
19 T	Methyl tert-butyl Ether	50.000	50.072	-0.1	93	0.00
20 T	Methylene Chloride	50.000	49.724	0.6	96	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.352	1.3	96	0.00
22 T	Diisopropyl ether	50.000	51.358	-2.7	95	0.00
23 T	Vinyl Acetate	250.000	254.755	-1.9	93	0.00
24 P	1,1-Dichloroethane	50.000	49.586	0.8	94	0.00
25 T	2-Butanone	250.000	244.186	2.3	91	0.00
26 T	2,2-Dichloropropane	50.000	50.188	-0.4	96	-0.01
27 T	cis-1,2-Dichloroethene	50.000	49.507	1.0	96	0.00
28 T	Bromochloromethane	50.000	57.153	-14.3	113	0.00
29 T	Tetrahydrofuran	250.000	240.659	3.7	92	0.00
30 C	Chloroform	50.000	49.055	1.9#	94	0.00
31 T	Cyclohexane	50.000	47.066	5.9	92	0.00
32 T	1,1,1-Trichloroethane	50.000	49.018	2.0	92	0.00
33 S	1,2-Dichloroethane-d4	50.000	54.750	-9.5	115	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	55.488	-11.0	115	0.00
36 T	1,1-Dichloropropene	50.000	47.627	4.7	91	0.00
37 T	Ethyl Acetate	50.000	47.213	5.6	90	0.00
38 T	Carbon Tetrachloride	50.000	47.393	5.2	92	0.00
39 T	Methylcyclohexane	50.000	47.074	5.9	91	-0.01
40 TM	Benzene	50.000	48.672	2.7	92	0.00
41 T	Methacrylonitrile	50.000	48.768	2.5	89	0.00
42 TM	1,2-Dichloroethane	50.000	48.708	2.6	93	-0.01
43 T	Isopropyl Acetate	50.000	48.740	2.5	90	0.00
44 TM	Trichloroethene	50.000	47.974	4.1	92	0.00
45 C	1,2-Dichloropropane	50.000	48.760	2.5#	94	0.00
46 T	Dibromomethane	50.000	48.500	3.0	94	0.00
47 T	Bromodichloromethane	50.000	48.121	3.8	92	0.00
48 T	Methyl methacrylate	50.000	48.604	2.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	890.740	10.9	81	0.00
50 S	Toluene-d8	50.000	54.448	-8.9	114	0.00
51 T	4-Methyl-2-Pentanone	250.000	243.797	2.5	89	0.00
52 CM	Toluene	50.000	48.706	2.6#	92	0.00
53 T	t-1,3-Dichloropropene	50.000	50.716	-1.4	92	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.956	0.1	94	0.00
55 T	1,1,2-Trichloroethane	50.000	48.385	3.2	93	0.00
56 T	Ethyl methacrylate	50.000	50.140	-0.3	91	0.00
57 T	1,3-Dichloropropane	50.000	48.290	3.4	93	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	222.770	10.9	86	0.00
59 T	2-Hexanone	250.000	242.481	3.0	90	0.00
60 T	Dibromochloromethane	50.000	48.122	3.8	93	0.00
61 T	1,2-Dibromoethane	50.000	47.971	4.1	92	0.00
62 S	4-Bromofluorobenzene	50.000	54.723	-9.4	115	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	47.871	4.3	91	0.00
65 PM	Chlorobenzene	50.000	47.724	4.6	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.099	3.8	91	0.00
67 C	Ethyl Benzene	50.000	48.829	2.3#	92	0.00
68 T	m/p-Xylenes	100.000	98.705	1.3	92	0.00
69 T	o-Xylene	50.000	49.223	1.6	93	0.00
70 T	Styrene	50.000	50.176	-0.4	92	0.00
71 P	Bromoform	50.000	48.446	3.1	91	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	49.432	1.1	92	0.00
74 T	N-amyl acetate	50.000	50.217	-0.4	90	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.087	3.8	91	0.00
76 T	1,2,3-Trichloropropane	50.000	47.911	4.2	91	0.00
77 T	Bromobenzene	50.000	48.465	3.1	92	0.00
78 T	n-propylbenzene	50.000	49.351	1.3	93	0.00
79 T	2-Chlorotoluene	50.000	48.241	3.5	92	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.013	2.0	92	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	42.686	14.6	92	0.00
82 T	4-Chlorotoluene	50.000	47.889	4.2	92	0.00
83 T	tert-Butylbenzene	50.000	49.841	0.3	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.796	0.4	92	0.00
85 T	sec-Butylbenzene	50.000	49.507	1.0	93	0.00
86 T	p-Isopropyltoluene	50.000	49.332	1.3	93	0.00
87 T	1,3-Dichlorobenzene	50.000	47.926	4.1	92	0.00
88 T	1,4-Dichlorobenzene	50.000	46.752	6.5	93	0.00
89 T	n-Butylbenzene	50.000	49.556	0.9	94	0.00
90 T	Hexachloroethane	50.000	48.749	2.5	92	0.00
91 T	1,2-Dichlorobenzene	50.000	47.283	5.4	92	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	47.135	5.7	89	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.926	4.1	95	0.00
94 T	Hexachlorobutadiene	50.000	42.967	14.1	92	0.00
95 T	Naphthalene	50.000	49.026	1.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047357.D
Acq On : 15 Aug 2025 13:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX081525

Quant Time: Aug 18 04:22:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	47.822	4.4	93	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:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2841</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>08/19/2025</u> <u>09:37</u>
Lab File ID:	<u>VX047400.D</u>	Init. Calib. Date(s):	<u>08/15/2025</u> <u>08/15/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:40</u> <u>12:30</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.720	0.658		-8.61	20
1,1-Dichloroethene	0.630	0.596		-5.4	20
1,1-Dichloroethane	1.222	1.251	0.1	2.37	20
cis-1,2-Dichloroethene	0.778	0.806		3.6	20
1,1,1-Trichloroethane	1.073	1.041		-2.98	20
Benzene	1.533	1.493		-2.61	20
1,2-Dichloroethane	0.543	0.561		3.32	20
Trichloroethene	0.393	0.360		-8.4	20
1,1,2-Trichloroethane	0.360	0.376		4.44	20
Tetrachloroethene	0.362	0.319		-11.88	20
1,2-Dichloroethane-d4	0.700	0.805		15	20
Dibromofluoromethane	0.325	0.344		5.85	20
Toluene-d8	1.160	1.173		1.12	20
4-Bromofluorobenzene	0.428	0.455		6.31	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\VX081925\
 Data File : VX047400.D
 Acq On : 19 Aug 2025 09:37
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	203851	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	365078	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	334051	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	167955	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	164085	57.514	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 115.020%	
35) Dibromofluoromethane	5.391	113	125647	53.029	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.060%	
50) Toluene-d8	8.647	98	428388	50.584	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 101.160%	
62) 4-Bromofluorobenzene	11.079	95	166205	53.183	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 106.360%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	118983	45.787	ug/l	100
3) Chloromethane	1.313	50	115723	49.503	ug/l	98
4) Vinyl Chloride	1.392	62	134206	45.739	ug/l	93
5) Bromomethane	1.624	94	54388	45.891	ug/l	97
6) Chloroethane	1.703	64	83086	46.281	ug/l	98
7) Trichlorofluoromethane	1.904	101	195173	44.970	ug/l	98
8) Diethyl Ether	2.148	74	84247	55.128	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.343	101	118600	47.108	ug/l	99
10) Methyl Iodide	2.471	142	182007	42.186	ug/l	99
11) Tert butyl alcohol	2.959	59	73438	295.893	ug/l	99
12) 1,1-Dichloroethene	2.337	96	121485	47.332	ug/l	97
13) Acrolein	2.246	56	147637	281.792	ug/l	100
14) Allyl chloride	2.678	41	225494	50.583	ug/l	99
15) Acrylonitrile	3.081	53	342772	285.809	ug/l	100
16) Acetone	2.392	43	286462	267.129	ug/l	99
17) Carbon Disulfide	2.526	76	347652	44.886	ug/l	100
18) Methyl Acetate	2.715	43	158065	56.879	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	434808	55.686	ug/l	98
20) Methylene Chloride	2.800	84	149480	52.640	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	133669	49.068	ug/l	96
22) Diisopropyl ether	3.770	45	486194	55.175	ug/l	95
23) Vinyl Acetate	3.727	43	2049454	283.754	ug/l	100
24) 1,1-Dichloroethane	3.623	63	255069	51.211	ug/l	97
25) 2-Butanone	4.562	43	398410	283.674	ug/l	98
26) 2,2-Dichloropropane	4.483	77	185064	49.229	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	164241	51.764	ug/l	97
28) Bromochloromethane	4.904	49	126113	60.847	ug/l	100
29) Tetrahydrofuran	5.019	42	254725	280.608	ug/l	99
30) Chloroform	5.099	83	265903	52.310	ug/l	98
31) Cyclohexane	5.477	56	202692	44.146	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	212180	48.495	ug/l	99
36) 1,1-Dichloropropene	5.702	75	168226	44.977	ug/l	99
37) Ethyl Acetate	4.721	43	196036	50.486	ug/l	98
38) Carbon Tetrachloride	5.684	117	183778	44.963	ug/l	99
39) Methylcyclohexane	7.385	83	197227	42.274	ug/l	95
40) Benzene	6.044	78	545222	48.701	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047400.D
 Acq On : 19 Aug 2025 09:37
 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 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 19 10:00:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	83588	51.049	ug/l	94
42) 1,2-Dichloroethane	6.092	62	204929	51.678	ug/l	99
43) Isopropyl Acetate	6.342	43	298419	53.497	ug/l	100
44) Trichloroethene	7.129	130	131351	45.821	ug/l	93
45) 1,2-Dichloropropane	7.434	63	142494	50.806	ug/l	99
46) Dibromomethane	7.580	93	103627	50.893	ug/l	99
47) Bromodichloromethane	7.824	83	215133	50.965	ug/l	99
48) Methyl methacrylate	7.690	41	154171	53.246	ug/l	99
49) 1,4-Dioxane	7.684	88	32666	1160.527	ug/l	96
51) 4-Methyl-2-Pentanone	8.574	43	875170	272.635	ug/l	99
52) Toluene	8.720	92	333637	48.228	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	201870	54.796	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	220487	52.876	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	137274	52.264	ug/l	96
56) Ethyl methacrylate	9.116	69	211825	54.700	ug/l	99
57) 1,3-Dichloropropane	9.305	76	233945	52.271	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	493500	266.315	ug/l	99
59) 2-Hexanone	9.427	43	601025	270.676	ug/l	100
60) Dibromochloromethane	9.519	129	162215	51.968	ug/l	99
61) 1,2-Dibromoethane	9.610	107	141178	52.124	ug/l	100
64) Tetrachloroethene	9.275	164	106511	44.081	ug/l	98
65) Chlorobenzene	10.080	112	376884	47.476	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	132983	49.556	ug/l	99
67) Ethyl Benzene	10.195	91	642247	47.006	ug/l	100
68) m/p-Xylenes	10.299	106	484787	95.157	ug/l	100
69) o-Xylene	10.640	106	233222	47.570	ug/l	99
70) Styrene	10.653	104	417727	50.426	ug/l	100
71) Bromoform	10.799	173	105509	52.336	ug/l #	99
73) Isopropylbenzene	10.957	105	594503	45.232	ug/l	99
74) N-amyl acetate	10.842	43	263829	52.861	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	194960	50.522	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	152071m	49.366	ug/l	
77) Bromobenzene	11.195	156	157141	48.962	ug/l	98
78) n-propylbenzene	11.299	91	717602	45.715	ug/l	100
79) 2-Chlorotoluene	11.360	91	438581	46.220	ug/l	99
80) 1,3,5-Trimethylbenzene	11.445	105	505924	46.784	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	30598	44.250	ug/l	100
82) 4-Chlorotoluene	11.451	91	521477	46.620	ug/l	100
83) tert-Butylbenzene	11.713	119	507953	47.081	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	513998	47.529	ug/l	99
85) sec-Butylbenzene	11.890	105	609145	45.552	ug/l	100
86) p-Isopropyltoluene	12.006	119	514402	45.458	ug/l	99
87) 1,3-Dichlorobenzene	11.963	146	285904	46.630	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	291680	46.253	ug/l	100
89) n-Butylbenzene	12.329	91	480705	45.672	ug/l	100
90) Hexachloroethane	12.536	117	91716	46.201	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	278982	47.938	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	37258	49.925	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	187378	48.028	ug/l	99
94) Hexachlorobutadiene	13.725	225	63372	45.633	ug/l	100
95) Naphthalene	13.774	128	571033	51.217	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	181090	49.242	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
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 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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\VX081925\
 Data File : VX047400.D
 Acq On : 19 Aug 2025 09:37
 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 08/20/2025

Supervised By : Mahesh Dadoda 08/20/2025

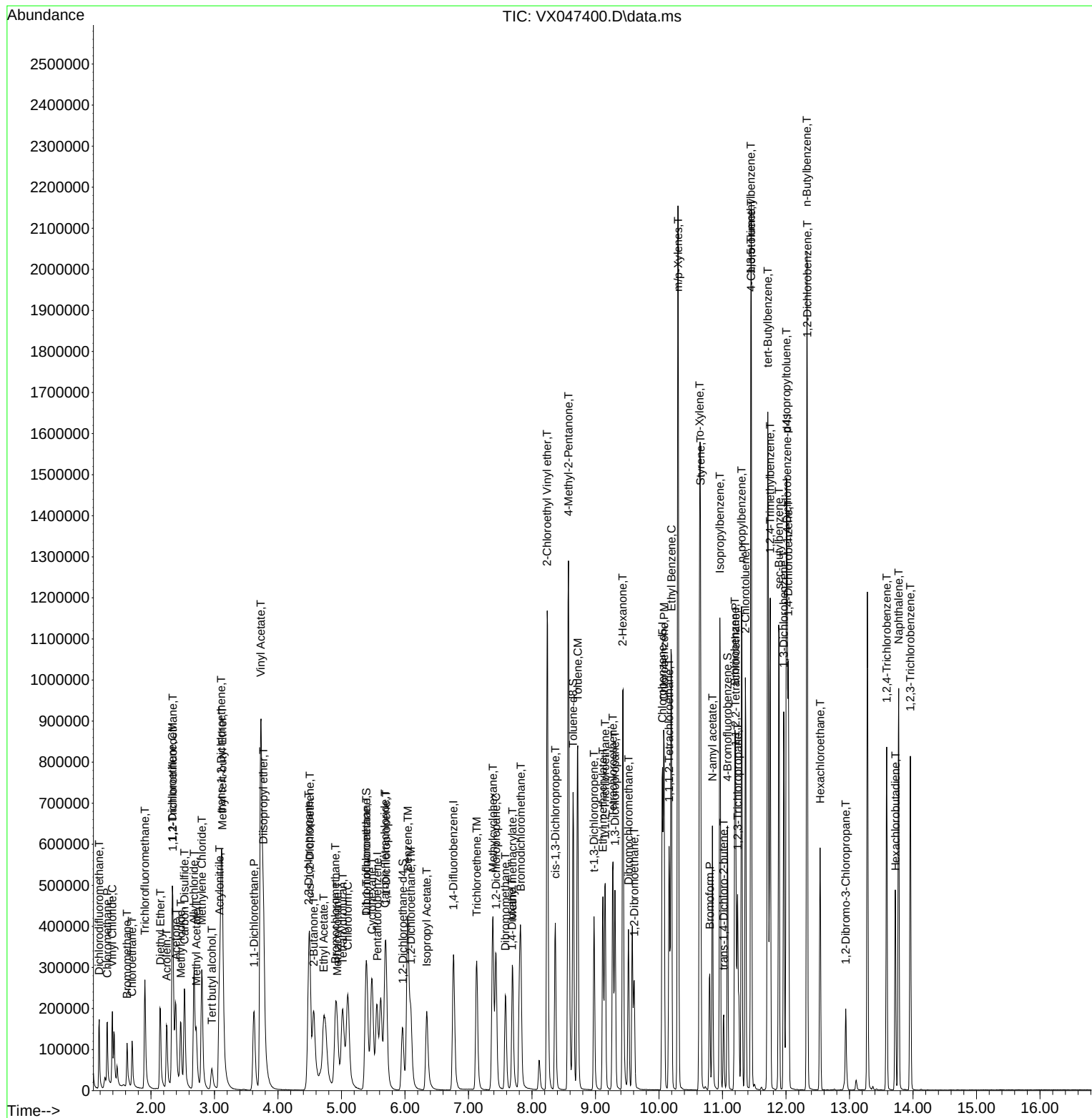
Quant Time: Aug 19 10:00:17 2025

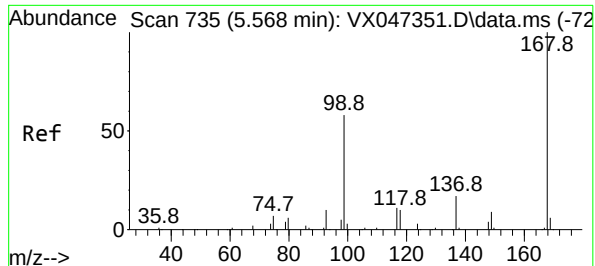
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M

Quant Title : SW846 8260

QLast Update : Mon Aug 18 04:18:28 2025

Response via : Initial Calibration





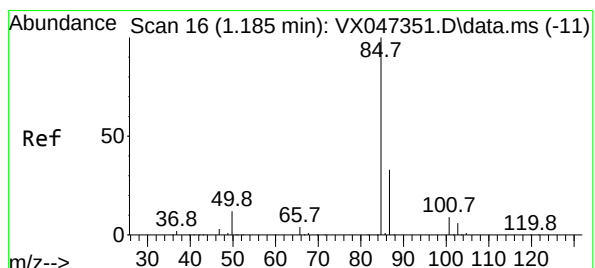
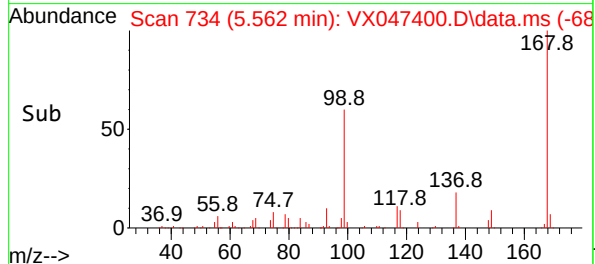
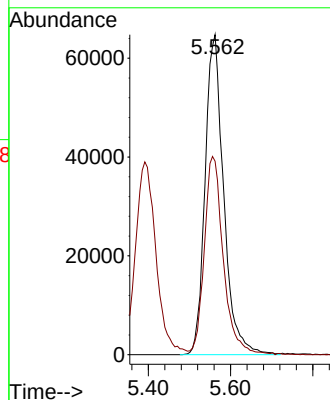
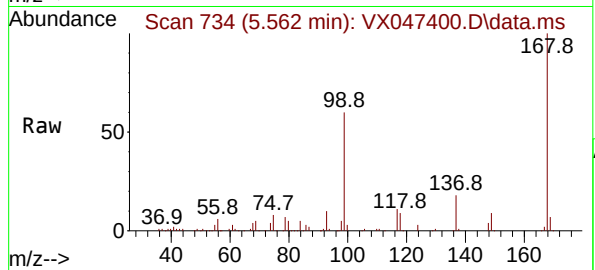
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 20385
Ion Ratio Lower Upper
168 100
99 60.1 47.9 71.9

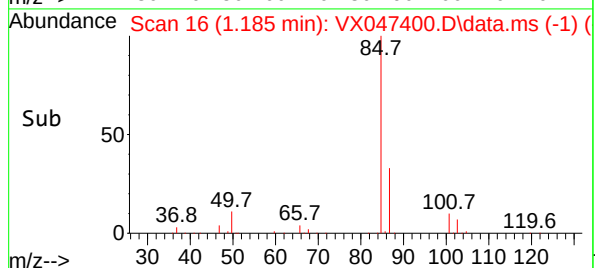
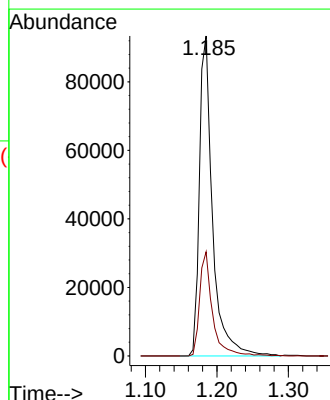
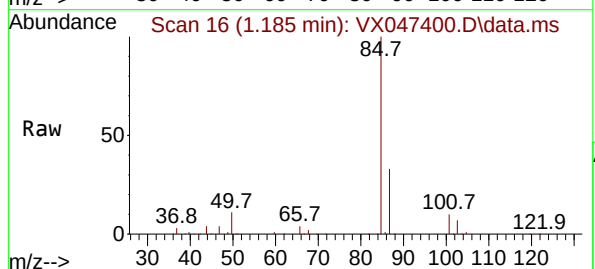
Manual Integrations
APPROVED

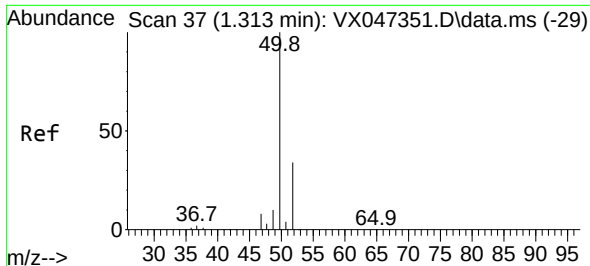
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#2
Dichlorodifluoromethane
Concen: 45.787 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

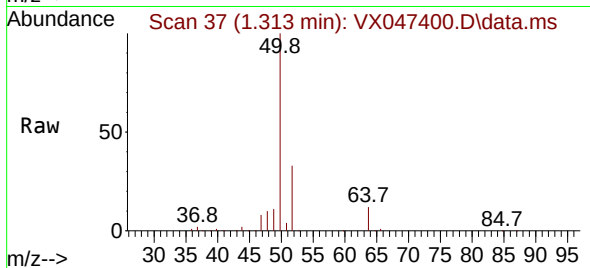
Tgt Ion: 85 Resp: 118983
Ion Ratio Lower Upper
85 100
87 32.6 16.4 49.1





#3
Chloromethane
Concen: 49.503 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

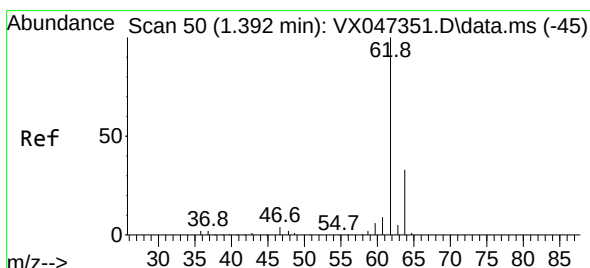
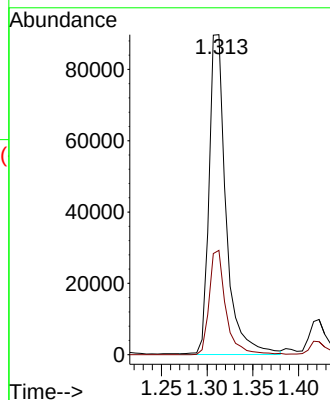
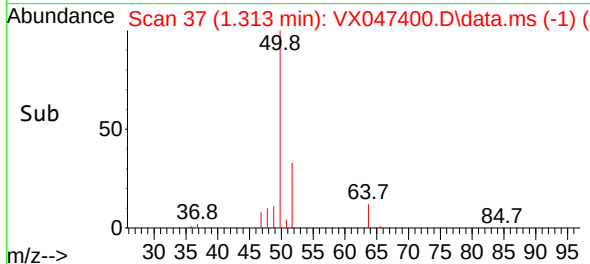
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



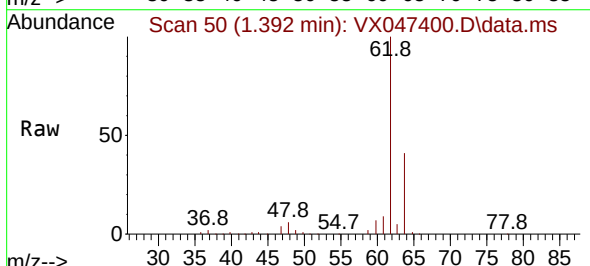
Tgt Ion: 50 Resp: 11572
Ion Ratio Lower Upper
50 100
52 32.7 27.0 40.4

Manual Integrations
APPROVED

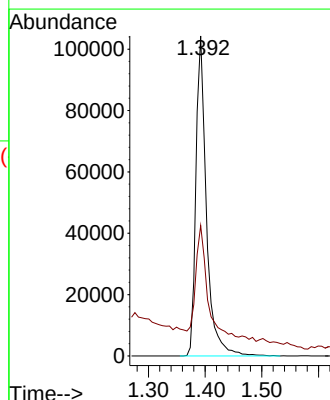
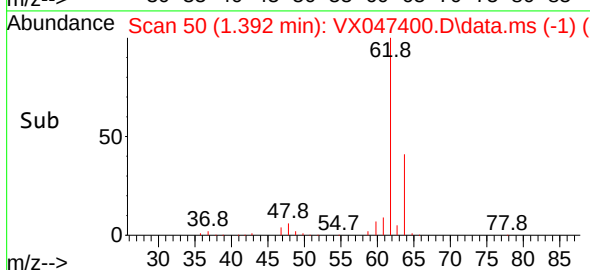
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

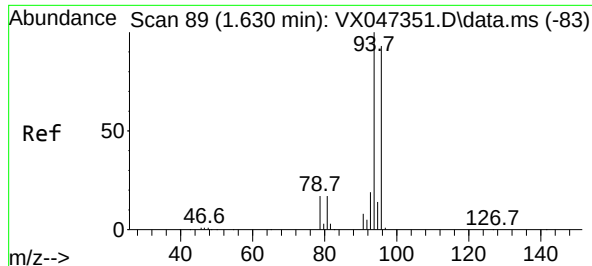


#4
Vinyl Chloride
Concen: 45.739 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37



Tgt Ion: 62 Resp: 134206
Ion Ratio Lower Upper
62 100
64 36.9 26.5 39.7





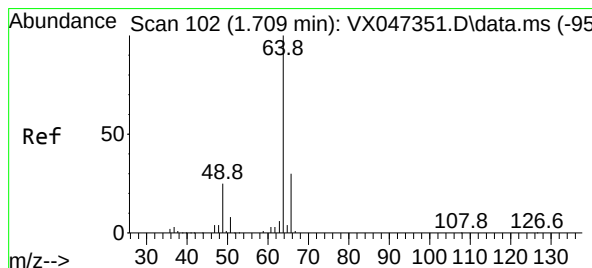
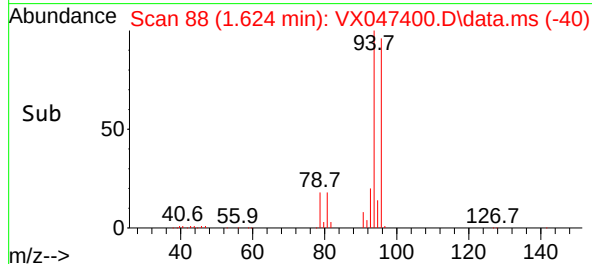
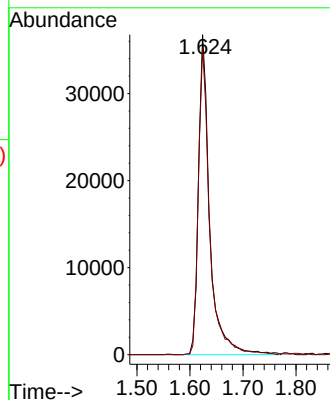
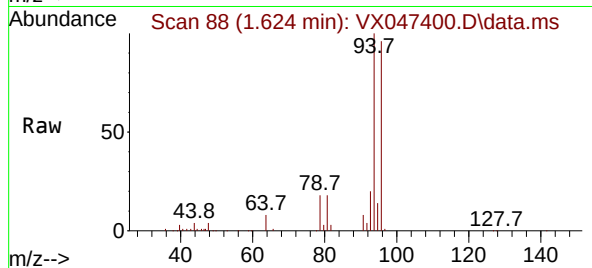
#5
Bromomethane
Concen: 45.891 ug/l
RT: 1.624 min Scan# 89
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 5438
Ion Ratio Lower Upper
94 100
96 95.9 74.7 112.1

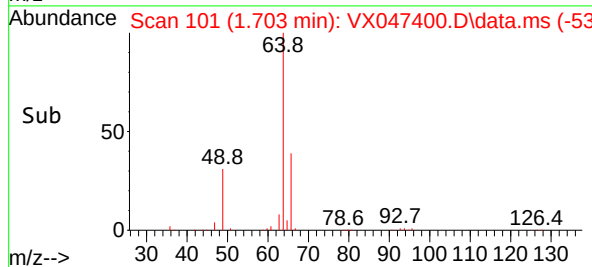
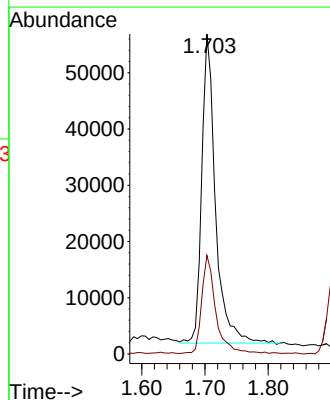
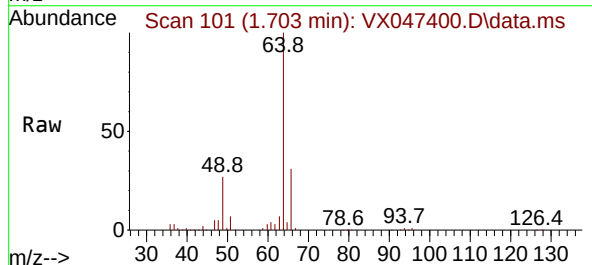
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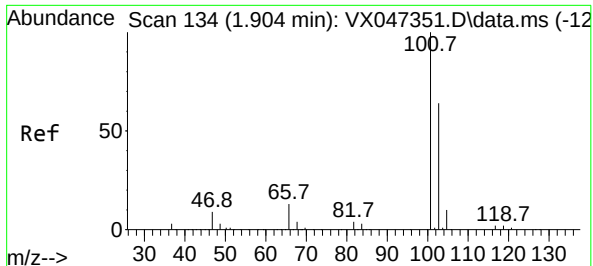
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#6
Chloroethane
Concen: 46.281 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 64 Resp: 83086
Ion Ratio Lower Upper
64 100
66 31.7 24.4 36.6





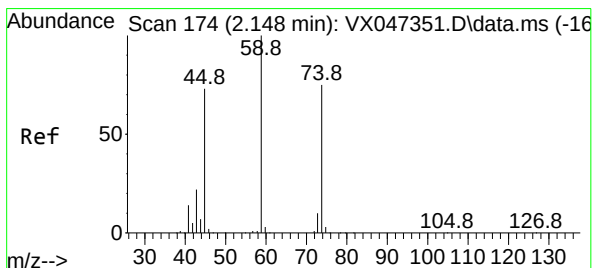
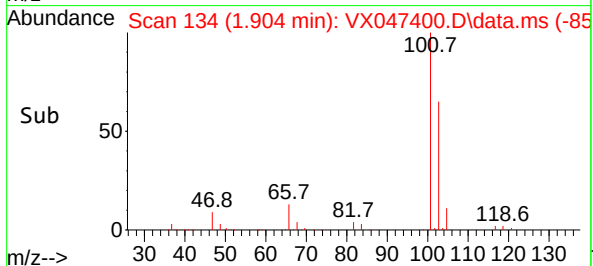
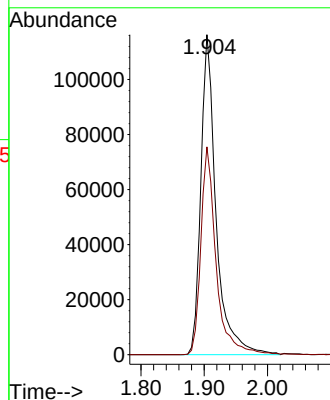
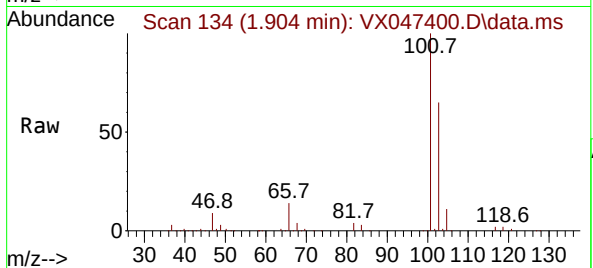
#7
Trichlorofluoromethane
Concen: 44.970 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 19517
Ion Ratio Lower Upper
101 100
103 65.0 50.9 76.3

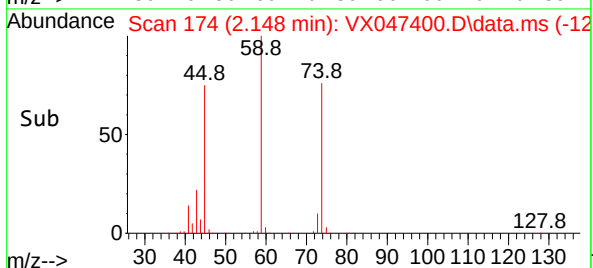
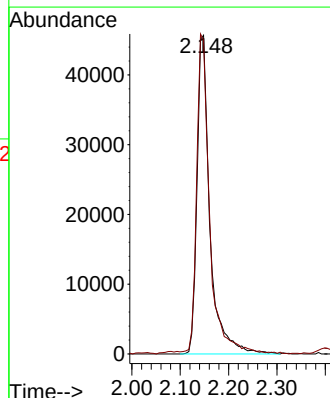
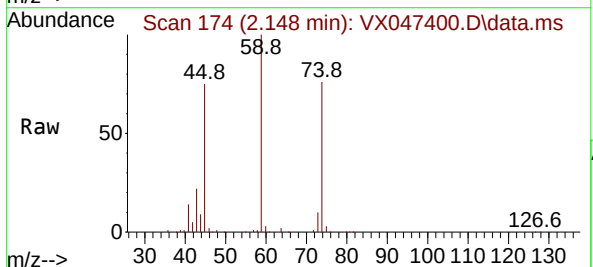
Manual Integrations
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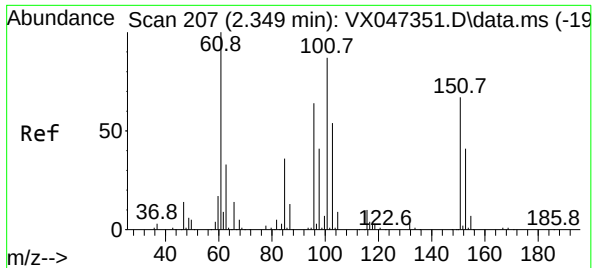
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#8
Diethyl Ether
Concen: 55.128 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 74 Resp: 84247
Ion Ratio Lower Upper
74 100
45 99.3 51.3 154.0





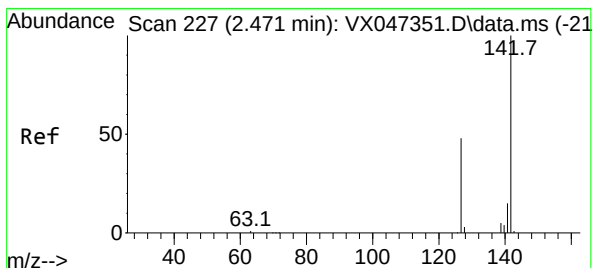
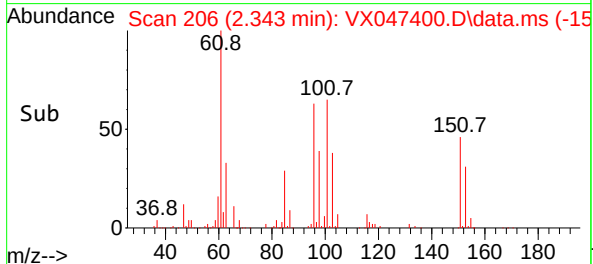
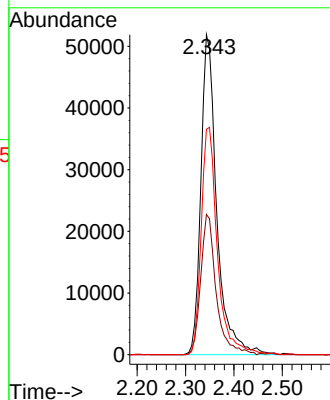
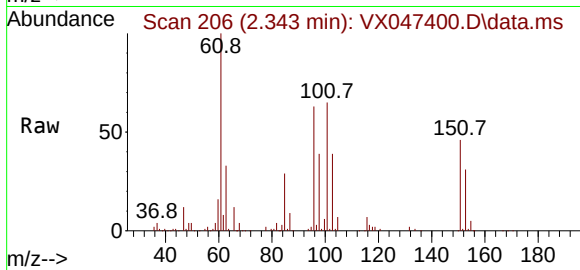
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.108 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 118600
Ion Ratio Lower Upper
101 100
85 42.9 34.3 51.5
151 72.7 59.2 88.8

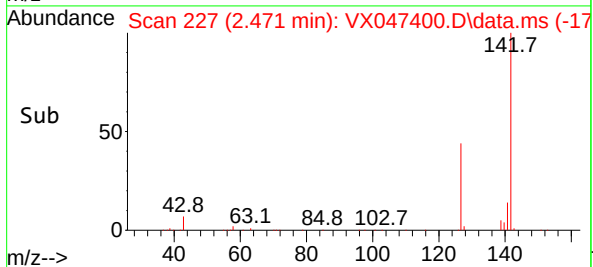
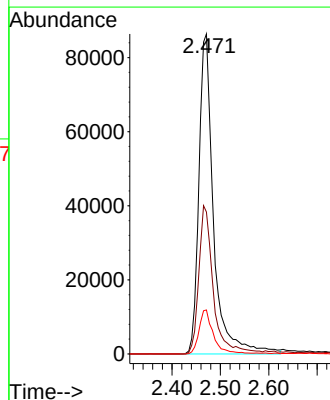
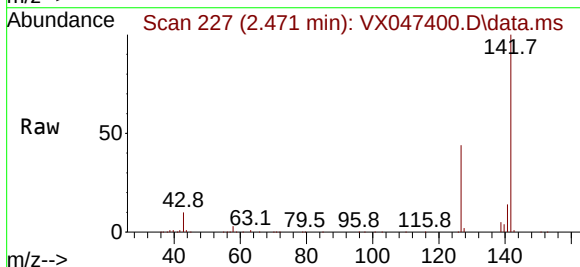
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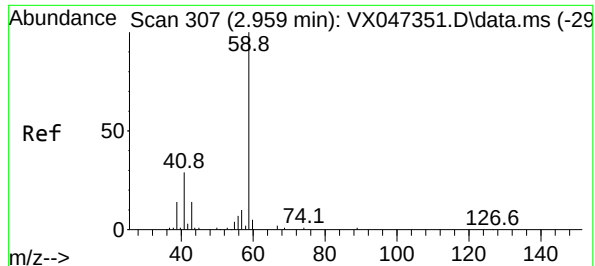
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#10
Methyl Iodide
Concen: 42.186 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:142 Resp: 182007
Ion Ratio Lower Upper
142 100
127 45.8 36.1 54.1
141 13.4 11.1 16.7





#11

Tert butyl alcohol

Concen: 295.893 ug/l

RT: 2.959 min Scan# 307

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 73438

Ion Ratio Lower Upper

59 100

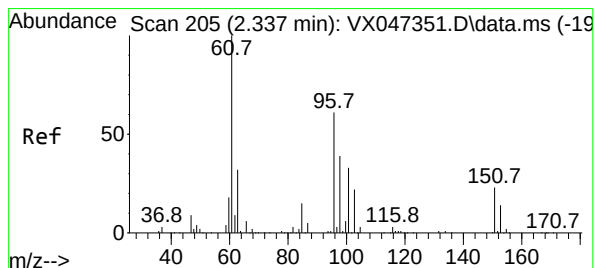
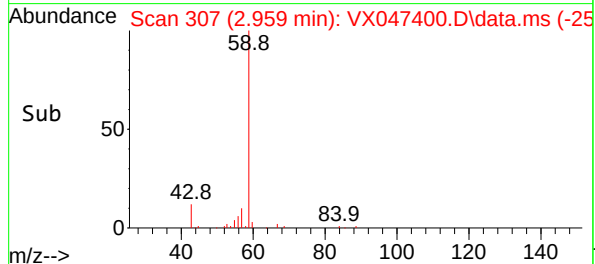
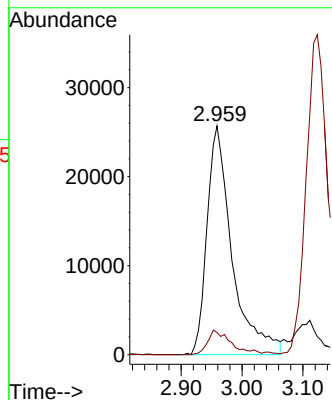
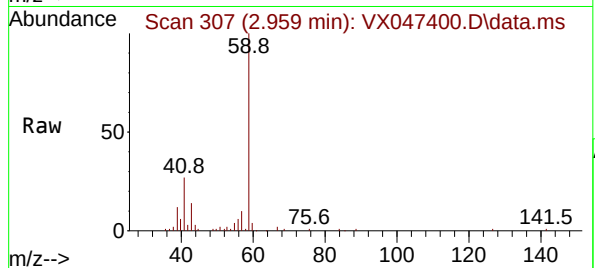
57 10.1 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#12

1,1-Dichloroethene

Concen: 47.332 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

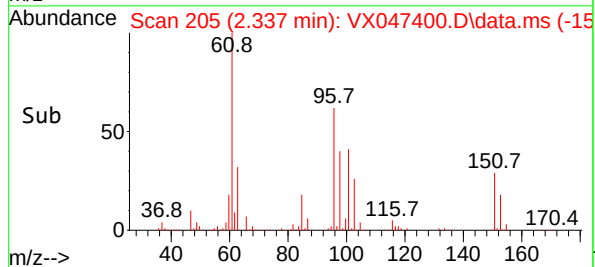
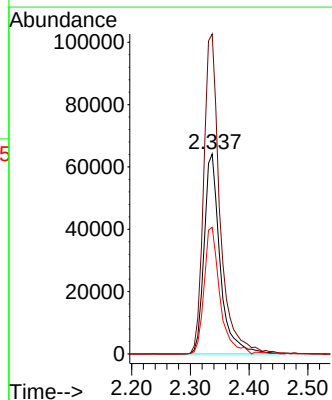
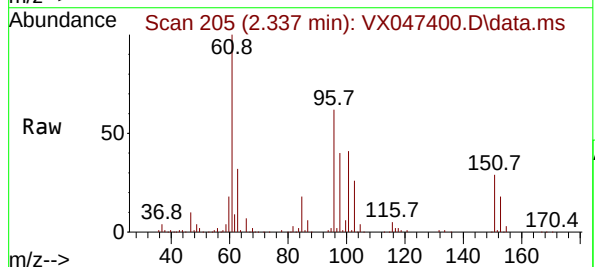
Tgt Ion: 96 Resp: 121485

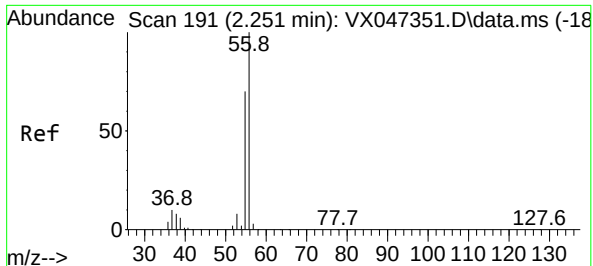
Ion Ratio Lower Upper

96 100

61 160.1 132.2 198.2

98 63.4 51.2 76.8





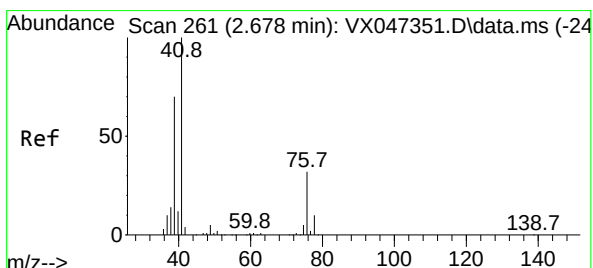
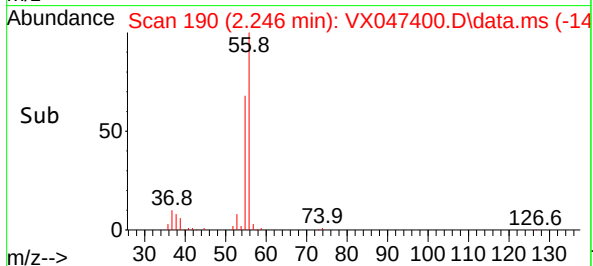
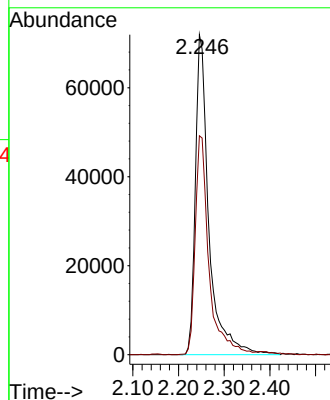
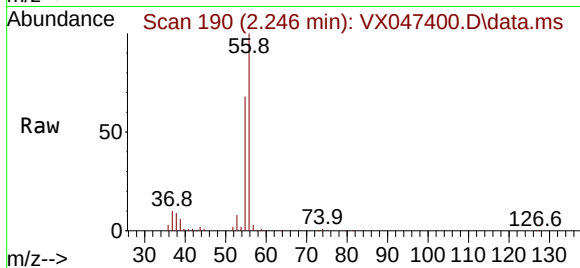
#13
Acrolein
Concen: 281.792 ug/l
RT: 2.246 min Scan# 191
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 14763
Ion Ratio Lower Upper
56 100
55 69.6 55.5 83.3

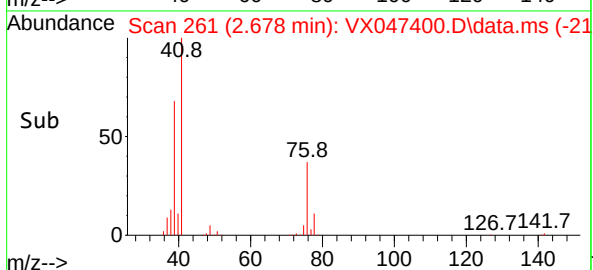
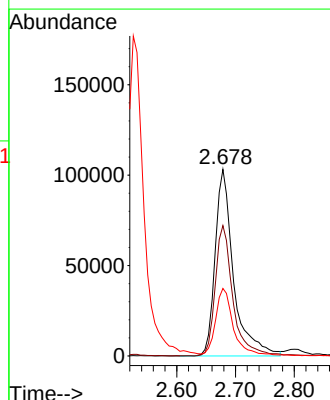
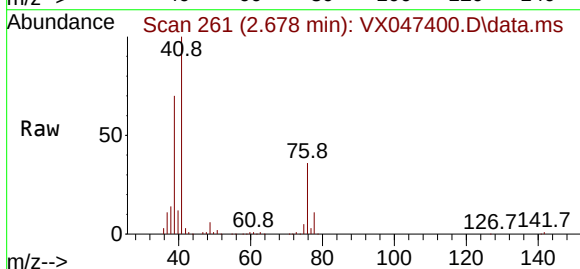
Manual Integrations
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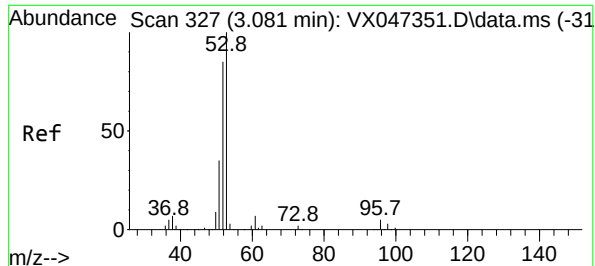
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#14
Allyl chloride
Concen: 50.583 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 41 Resp: 225494
Ion Ratio Lower Upper
41 100
39 67.2 54.6 81.8
76 34.9 27.6 41.4





#15

Acrylonitrile

Concen: 285.809 ug/l

RT: 3.081 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 342772

Ion Ratio Lower Upper

53 100

52 82.2 65.8 98.6

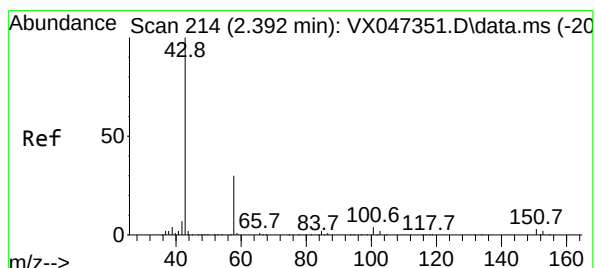
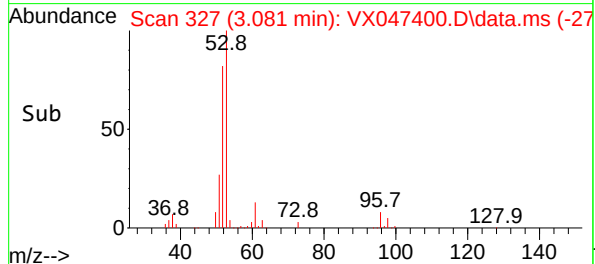
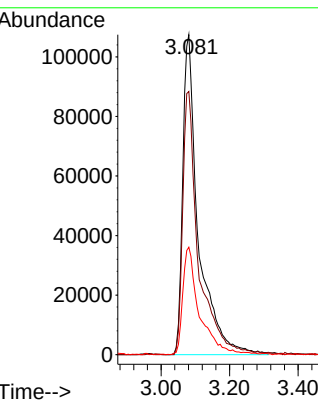
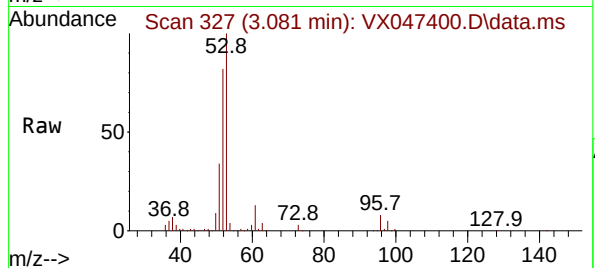
51 35.6 28.2 42.2

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#16

Acetone

Concen: 267.129 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX047400.D

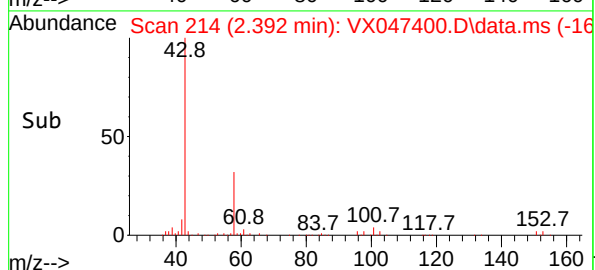
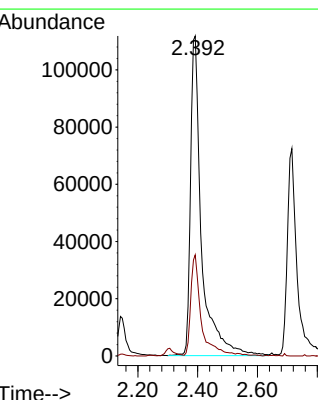
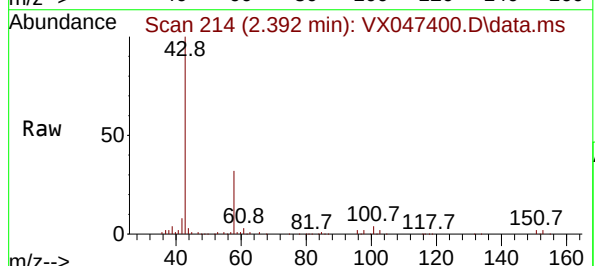
Acq: 19 Aug 2025 09:37

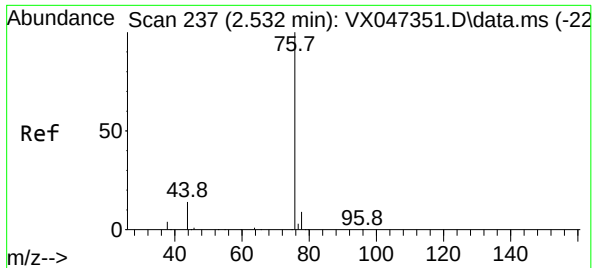
Tgt Ion: 43 Resp: 286462

Ion Ratio Lower Upper

43 100

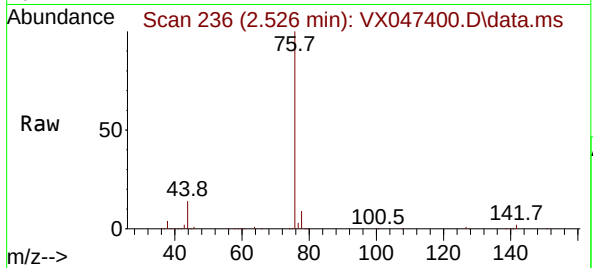
58 31.5 24.8 37.2





#17
Carbon Disulfide
Concen: 44.886 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

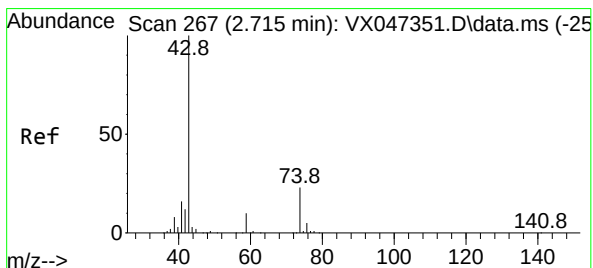
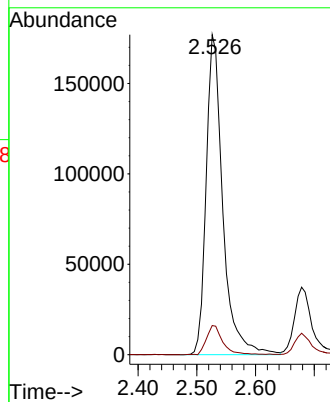
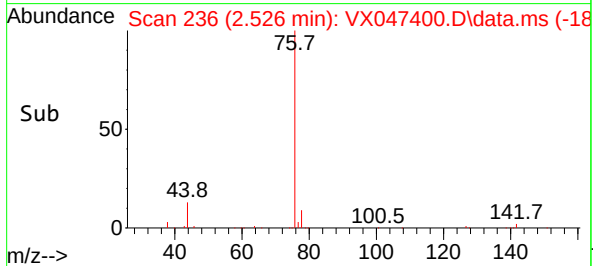
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 76 Resp: 347652
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8

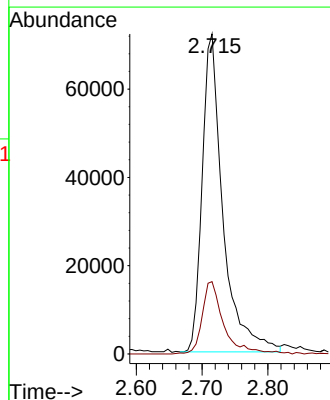
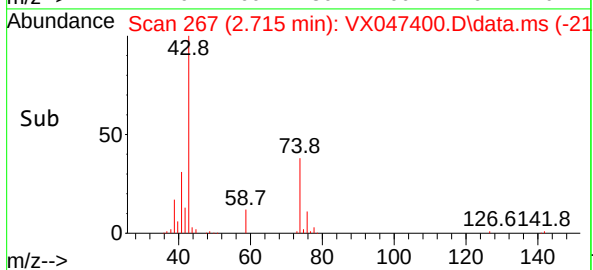
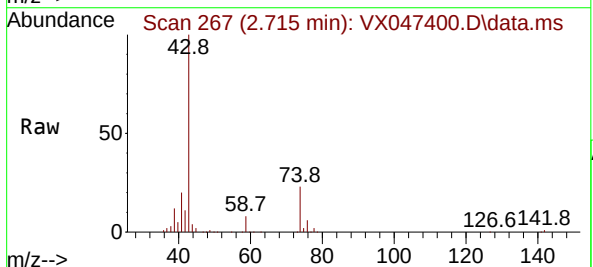
Manual Integrations
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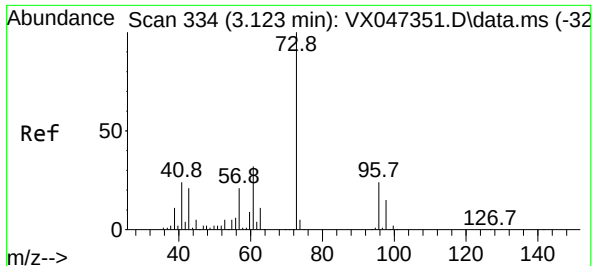
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#18
Methyl Acetate
Concen: 56.879 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 158065
Ion Ratio Lower Upper
43 100
74 23.6 18.4 27.6





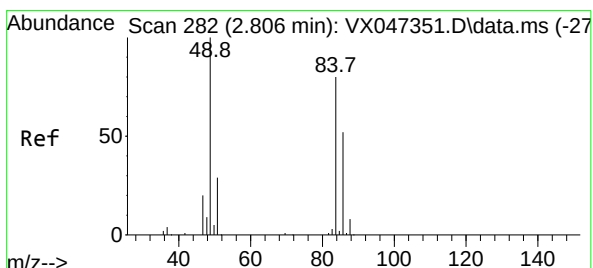
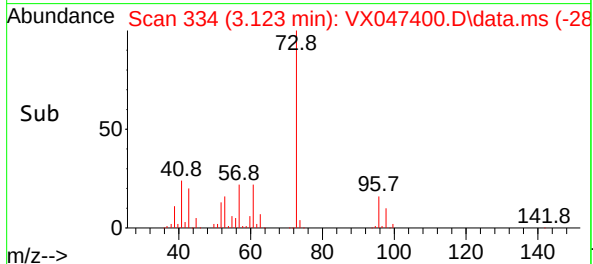
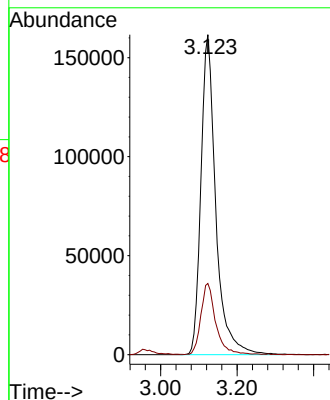
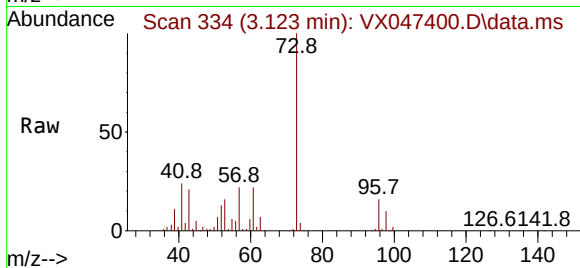
#19
Methyl tert-butyl Ether
Concen: 55.686 ug/l
RT: 3.123 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 434808
Ion Ratio Lower Upper
73 100
57 22.2 17.0 25.6

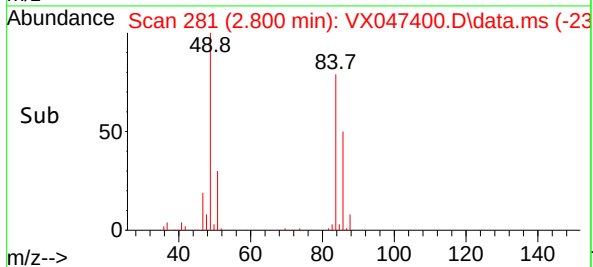
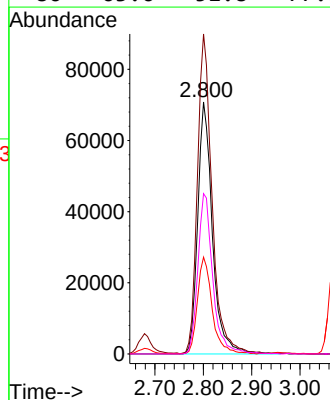
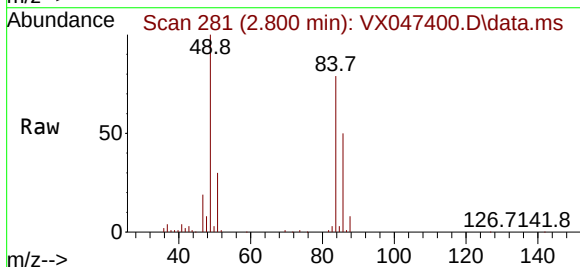
Manual Integrations
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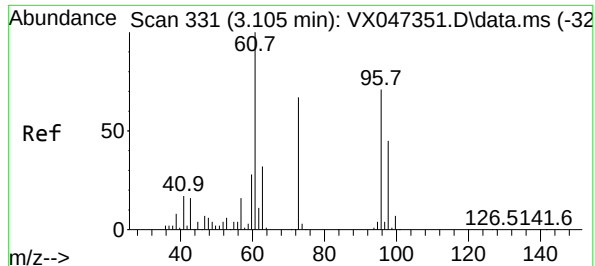
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#20
Methylene Chloride
Concen: 52.640 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

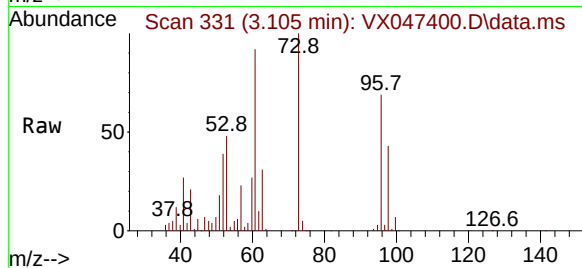
Tgt Ion: 84 Resp: 149480
Ion Ratio Lower Upper
84 100
49 126.9 100.1 150.1
51 38.3 29.5 44.3
86 63.6 51.8 77.8





#21
trans-1,2-Dichloroethene
Concen: 49.068 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

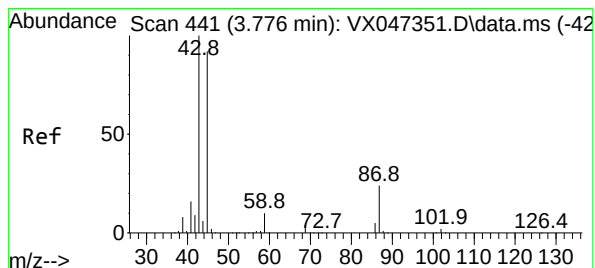
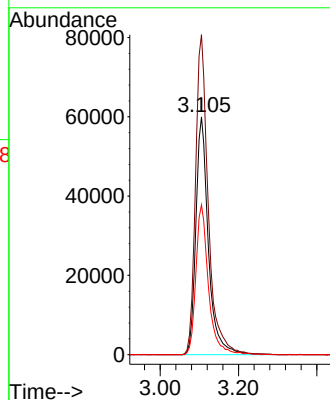
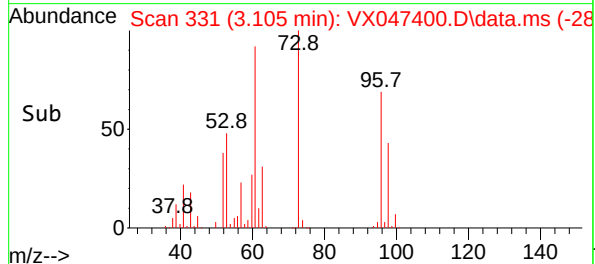
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 133669
Ion Ratio Lower Upper
96 100
61 134.6 112.6 169.0
98 63.0 50.9 76.3

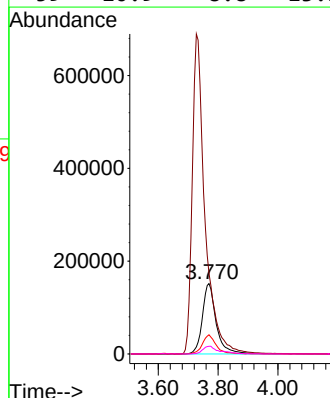
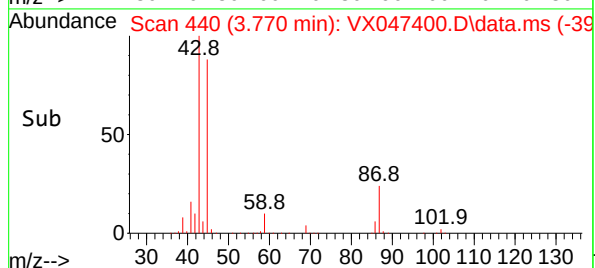
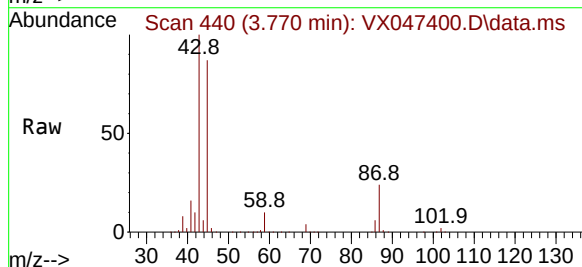
Manual Integrations
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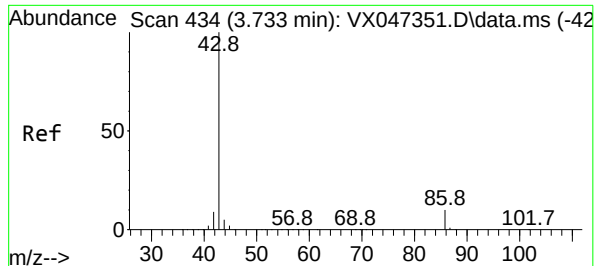
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#22
Diisopropyl ether
Concen: 55.175 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 45 Resp: 486194
Ion Ratio Lower Upper
45 100
43 114.3 86.8 130.2
87 27.2 20.4 30.6
59 10.9 8.8 13.2





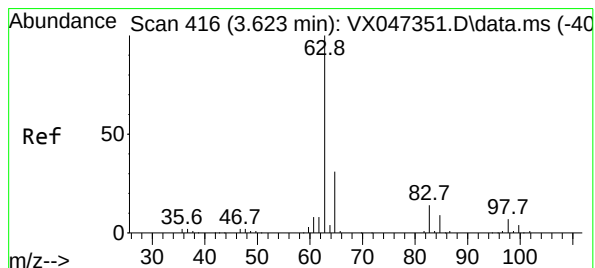
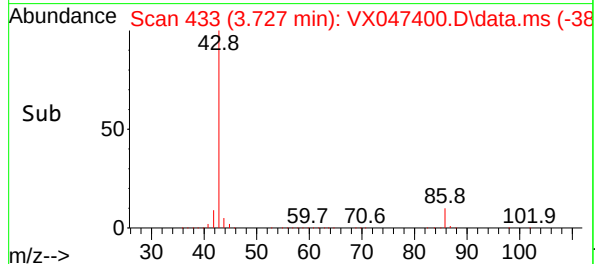
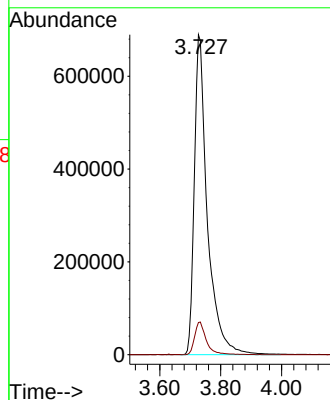
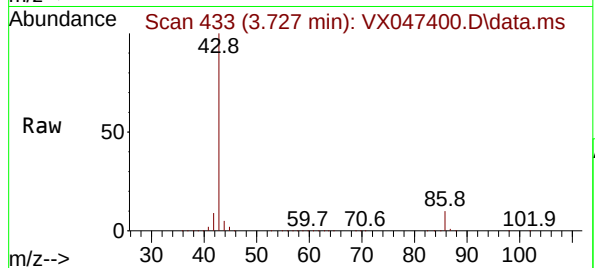
#23
Vinyl Acetate
Concen: 283.754 ug/l
RT: 3.727 min Scan# 411
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2049454
Ion Ratio Lower Upper
43 100
86 10.1 7.9 11.9

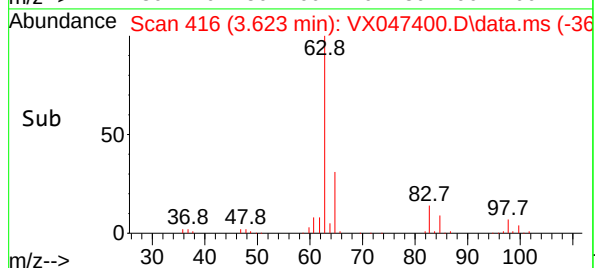
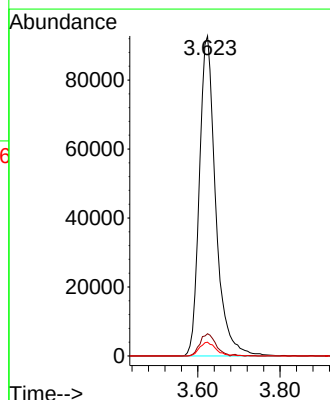
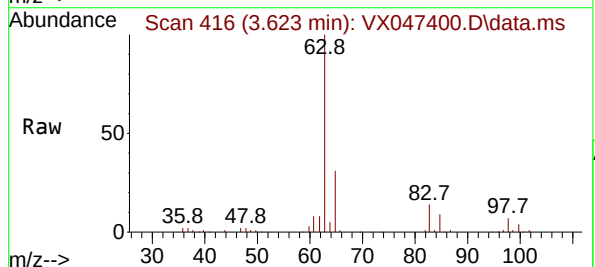
Manual Integrations
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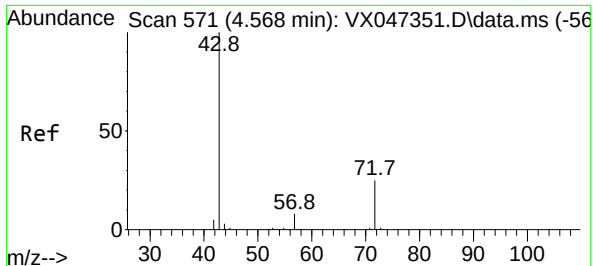
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#24
1,1-Dichloroethane
Concen: 51.211 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 63 Resp: 255069
Ion Ratio Lower Upper
63 100
98 7.9 3.3 9.9
100 4.6 2.1 6.3





#25

2-Butanone

Concen: 283.674 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 398410

Ion Ratio Lower Upper

43 100

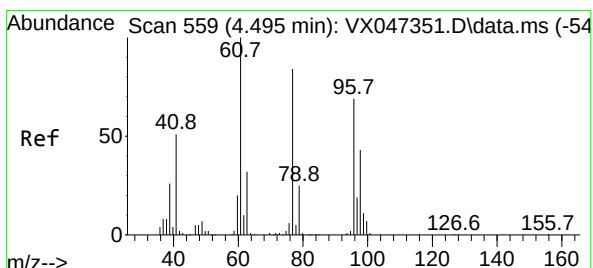
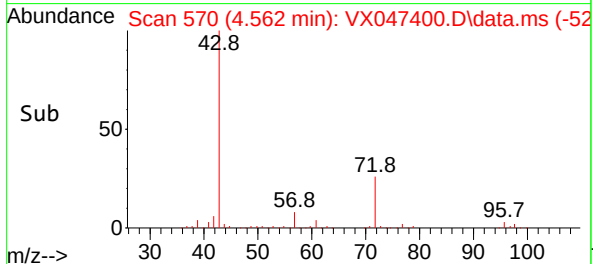
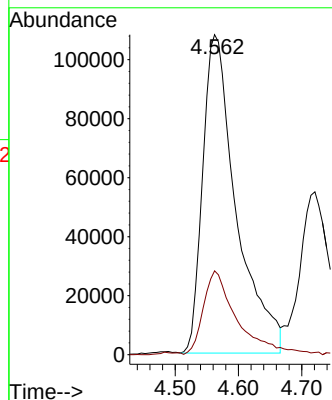
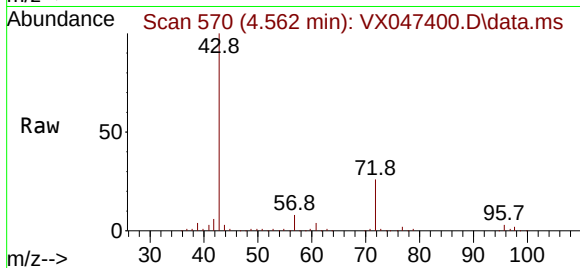
72 25.7 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#26

2,2-Dichloropropane

Concen: 49.229 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX047400.D

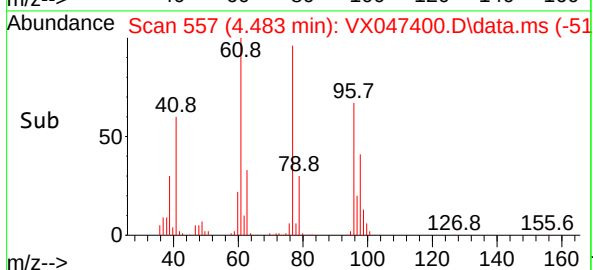
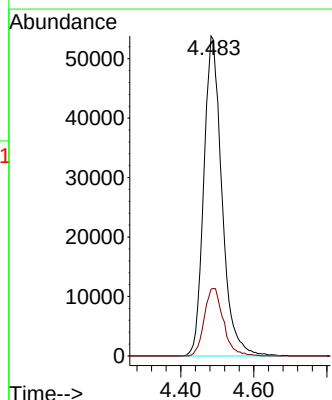
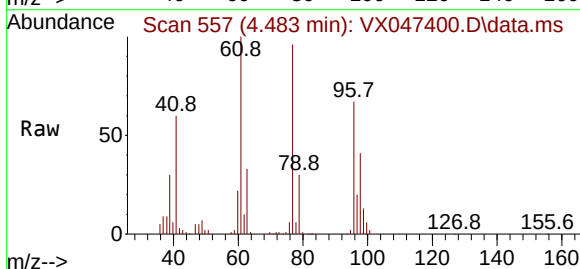
Acq: 19 Aug 2025 09:37

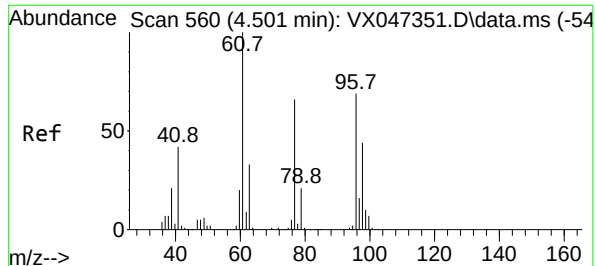
Tgt Ion: 77 Resp: 185064

Ion Ratio Lower Upper

77 100

97 22.3 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 51.764 ug/l

RT: 4.501 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 16424

Ion Ratio Lower Upper

96 100

61 144.5 0.0 296.6

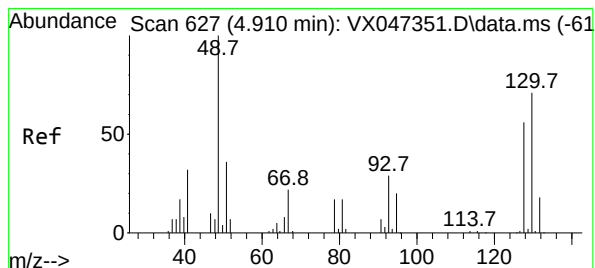
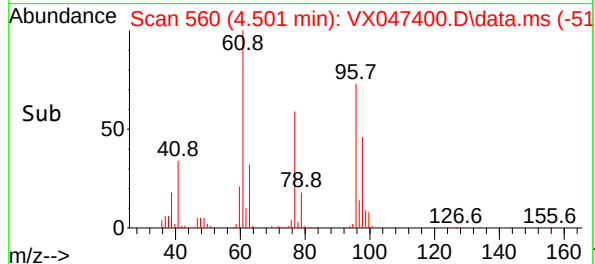
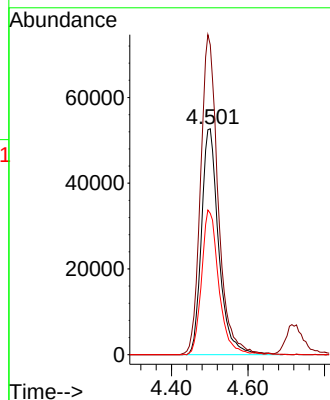
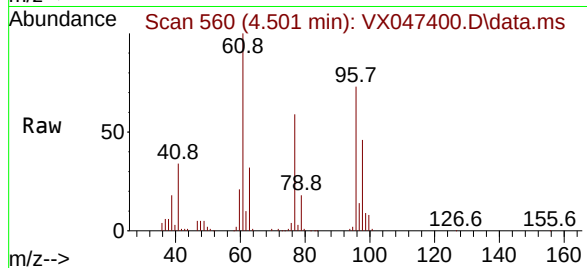
98 63.7 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#28

Bromochloromethane

Concen: 60.847 ug/l

RT: 4.904 min Scan# 626

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

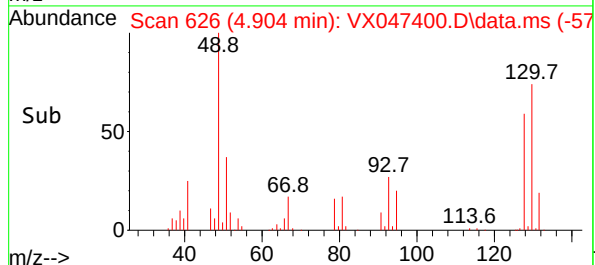
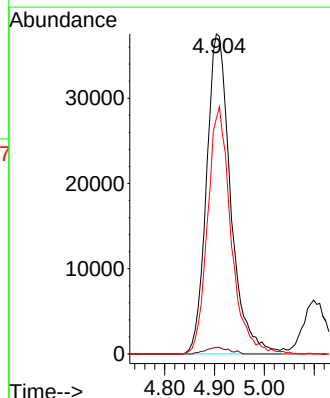
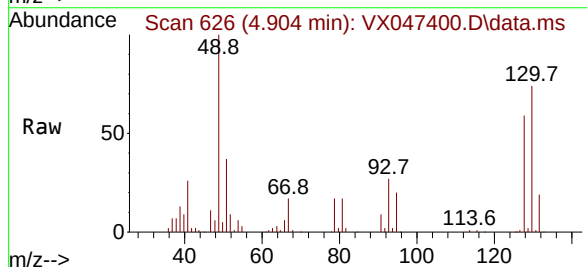
Tgt Ion: 49 Resp: 126113

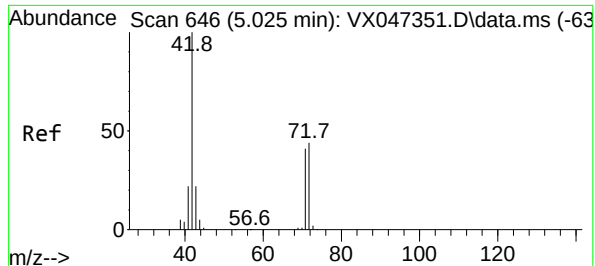
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.0

130 74.9 59.8 89.6





#29

Tetrahydrofuran

Concen: 280.608 ug/l

RT: 5.019 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 25472

Ion Ratio Lower Upper

42 100

72 42.3 34.6 51.8

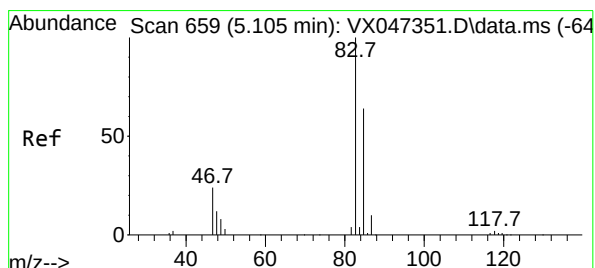
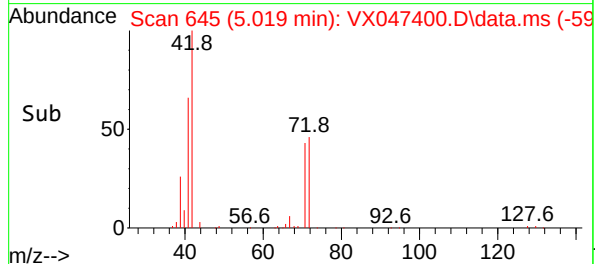
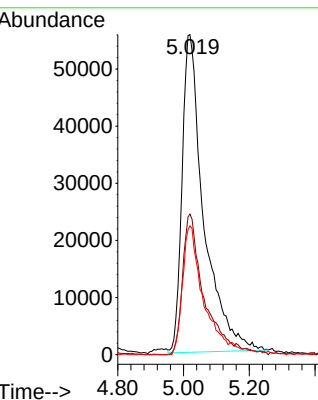
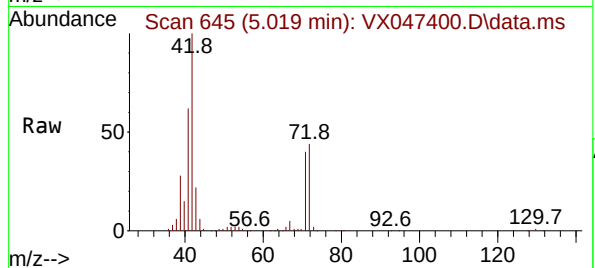
71 40.1 32.6 49.0

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#30

Chloroform

Concen: 52.310 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.006 min

Lab File: VX047400.D

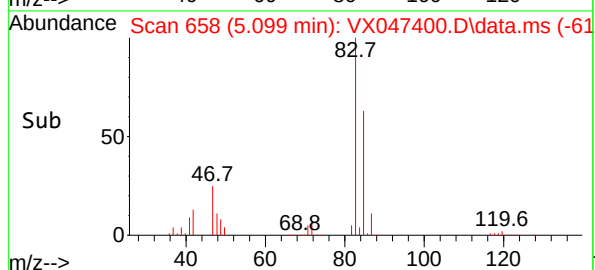
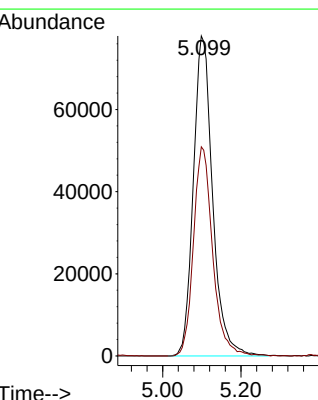
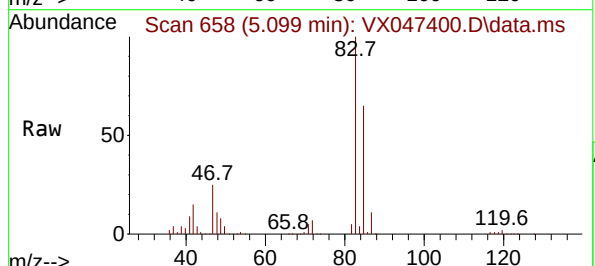
Acq: 19 Aug 2025 09:37

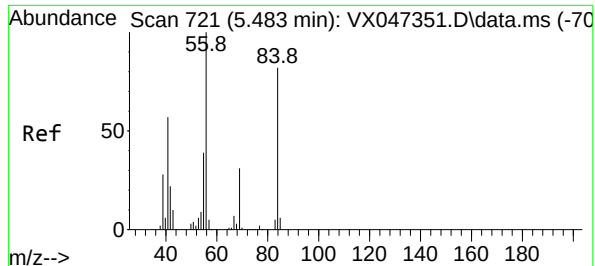
Tgt Ion: 83 Resp: 265903

Ion Ratio Lower Upper

83 100

85 65.3 51.2 76.8





#31

Cyclohexane

Concen: 44.146 ug/l

RT: 5.477 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 202692

Ion Ratio Lower Upper

56 100

69 32.0 24.3 36.5

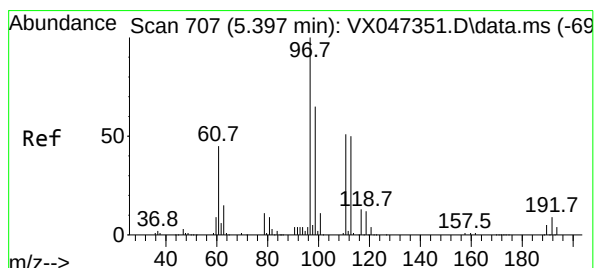
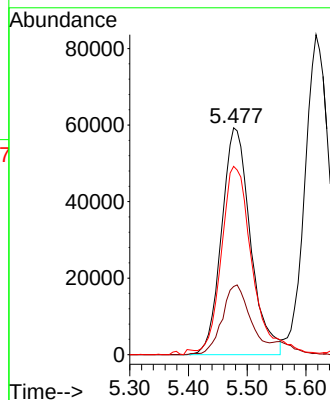
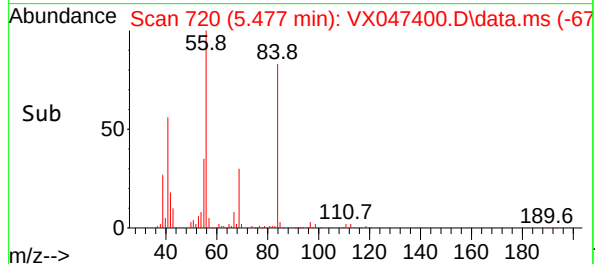
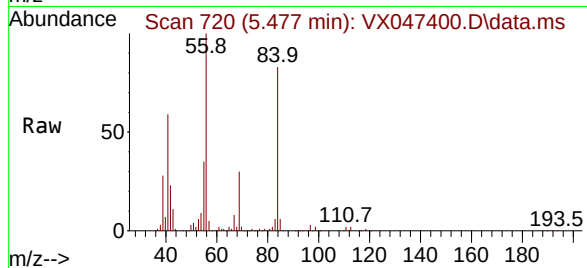
84 82.7 65.3 97.9

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#32

1,1,1-Trichloroethane

Concen: 48.495 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

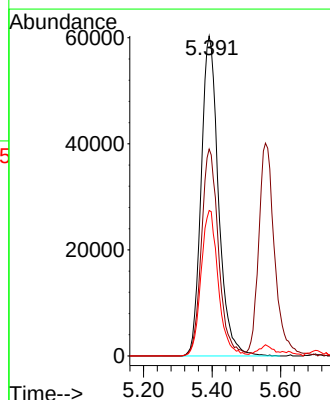
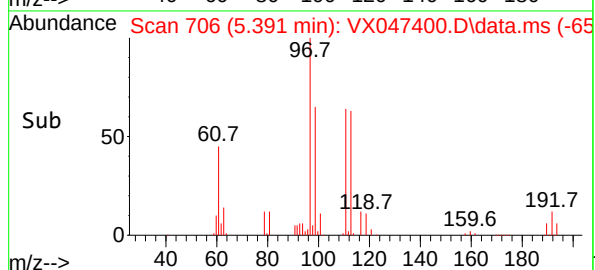
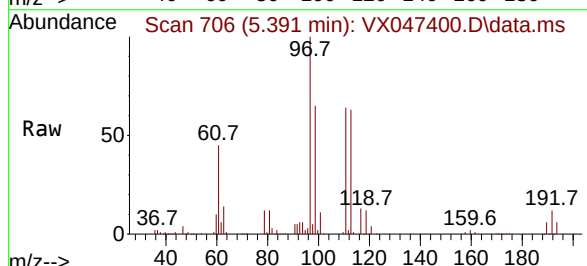
Tgt Ion: 97 Resp: 212180

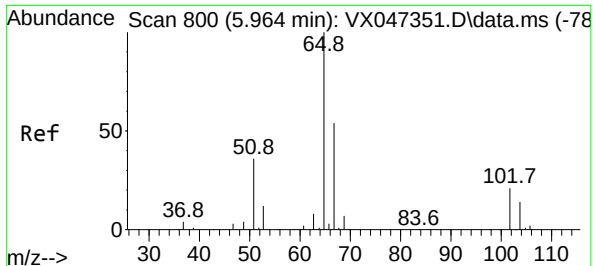
Ion Ratio Lower Upper

97 100

99 63.9 51.4 77.0

61 45.4 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 57.514 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 164085

Ion Ratio Lower Upper

65 100

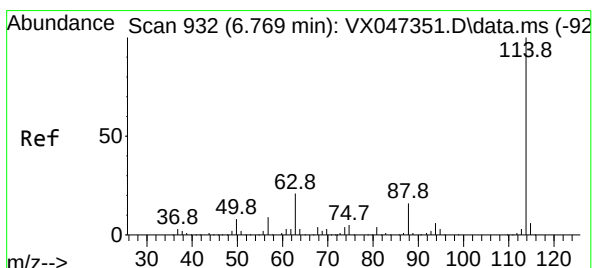
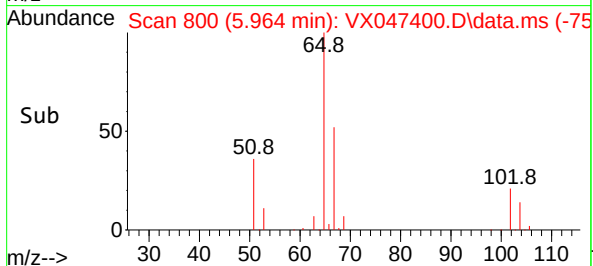
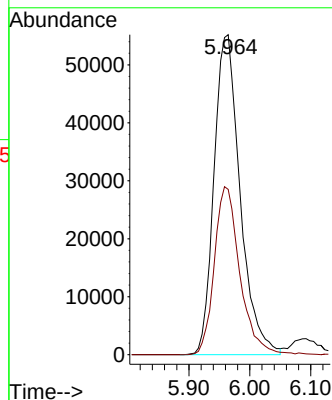
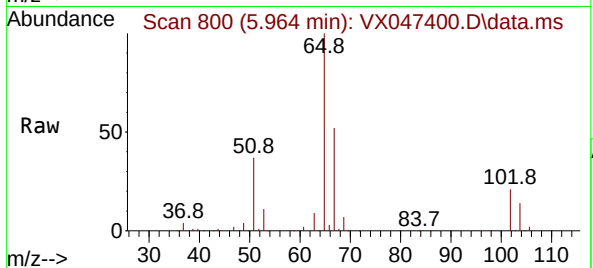
67 51.3 0.0 106.0

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

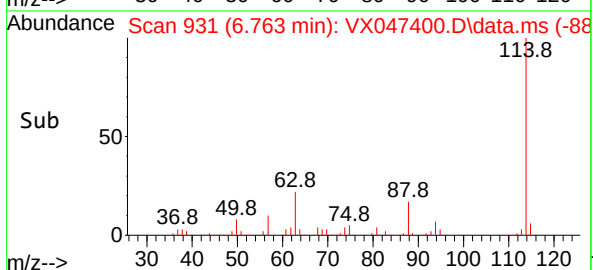
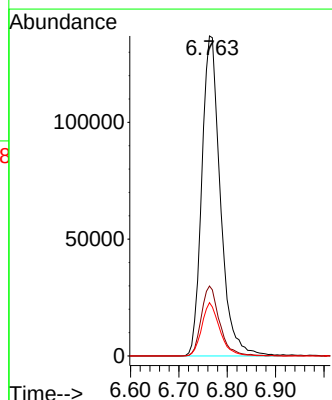
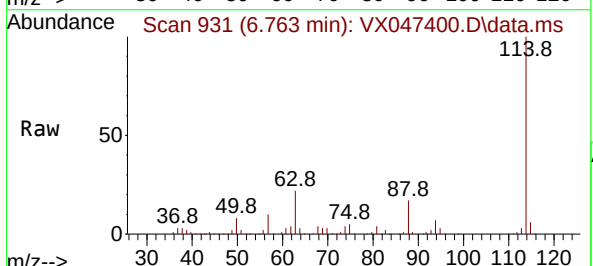
Tgt Ion:114 Resp: 365078

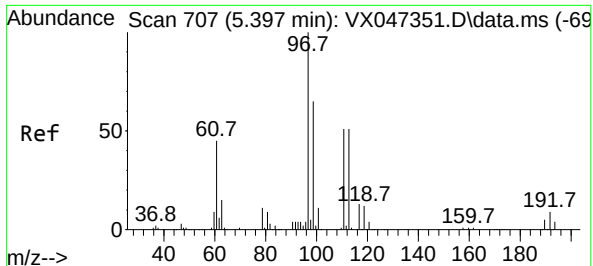
Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.4

88 16.6 0.0 33.0





#35

Dibromofluoromethane

Concen: 53.029 ug/l

RT: 5.391 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 12564

Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.2

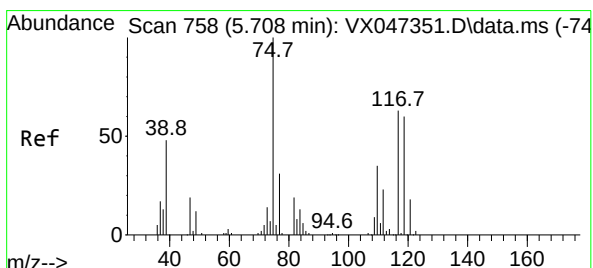
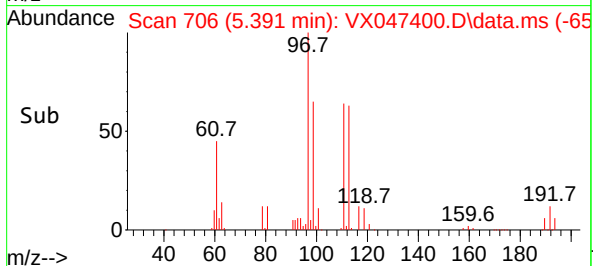
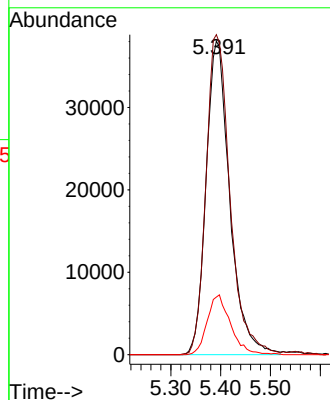
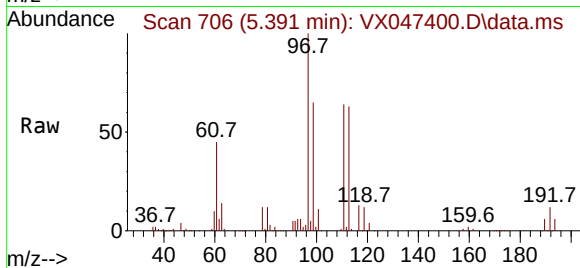
192 18.8 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#36

1,1-Dichloropropene

Concen: 44.977 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

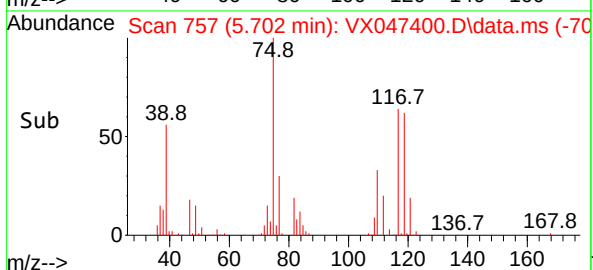
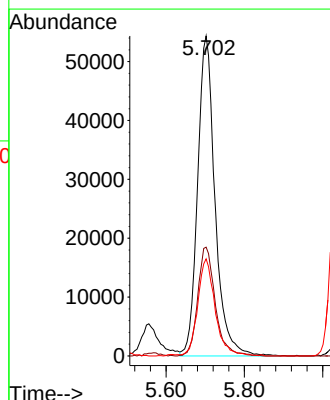
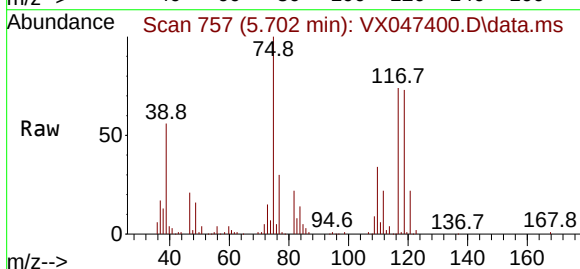
Tgt Ion: 75 Resp: 168226

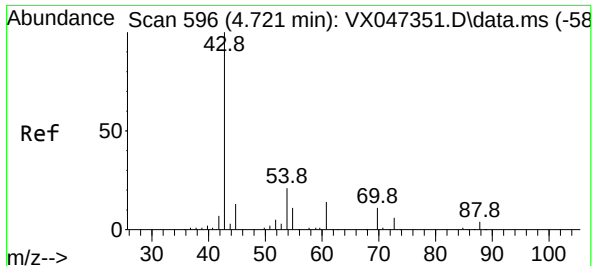
Ion Ratio Lower Upper

75 100

110 34.3 17.4 52.2

77 29.9 24.4 36.6





#37

Ethyl Acetate

Concen: 50.486 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 196030

Ion Ratio Lower Upper

43 100

61 12.5 9.4 14.2

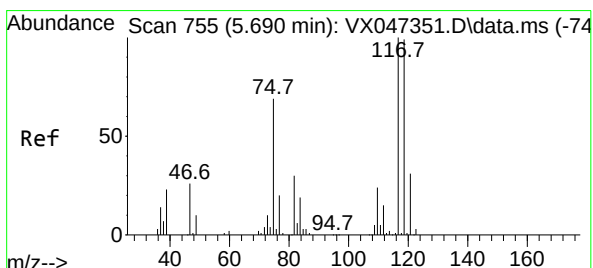
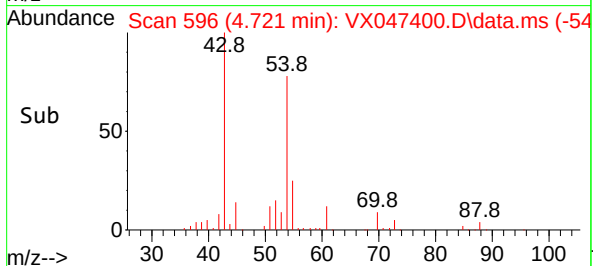
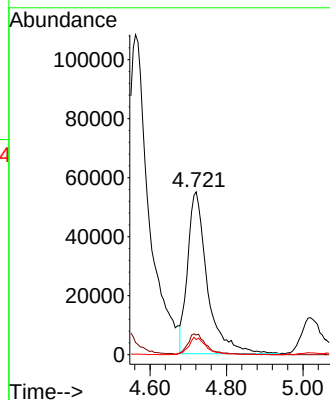
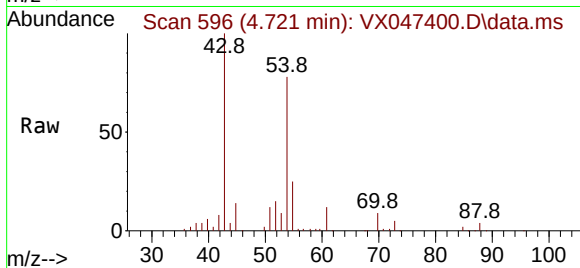
70 9.4 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#38

Carbon Tetrachloride

Concen: 44.963 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

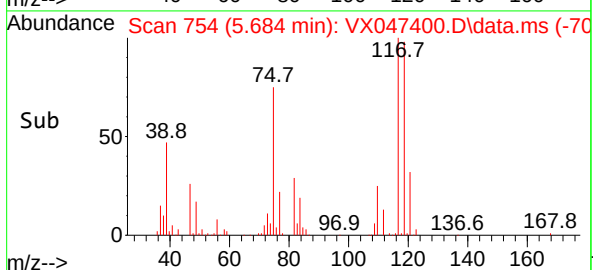
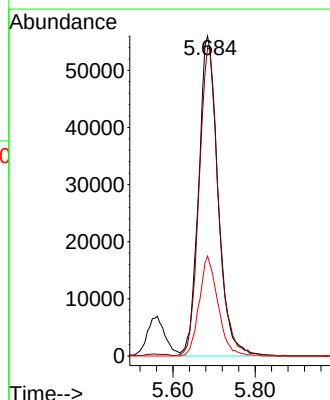
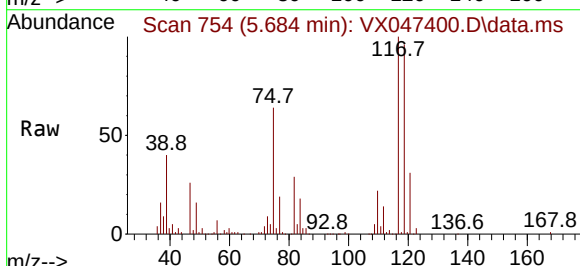
Tgt Ion:117 Resp: 183778

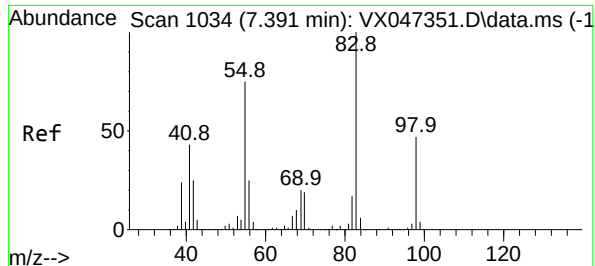
Ion Ratio Lower Upper

117 100

119 96.3 78.5 117.7

121 31.2 24.7 37.1





#39

Methylcyclohexane

Concen: 42.274 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 19722

Ion Ratio Lower Upper

83 100

55 79.1 60.0 90.0

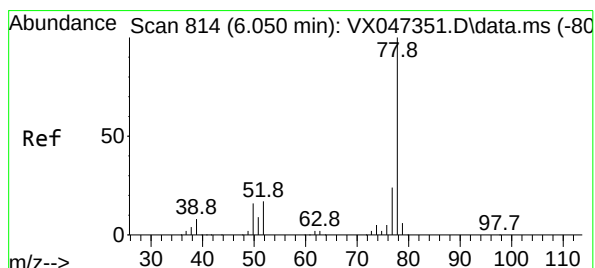
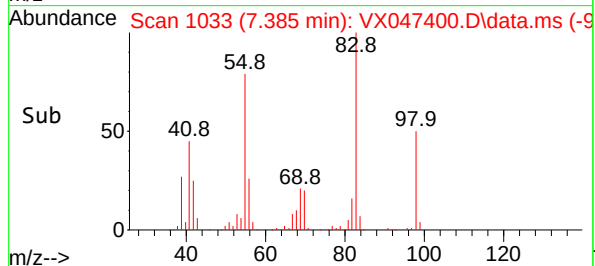
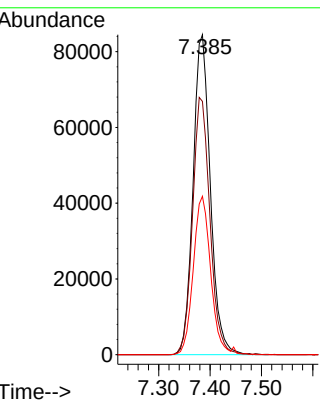
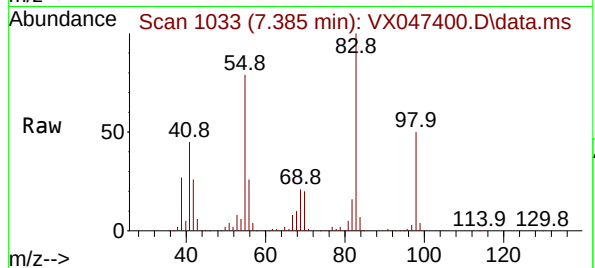
98 49.5 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#40

Benzene

Concen: 48.701 ug/l

RT: 6.044 min Scan# 813

Delta R.T. -0.006 min

Lab File: VX047400.D

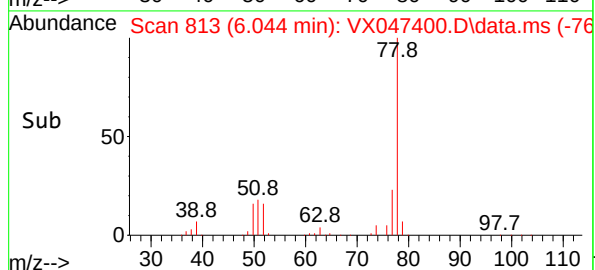
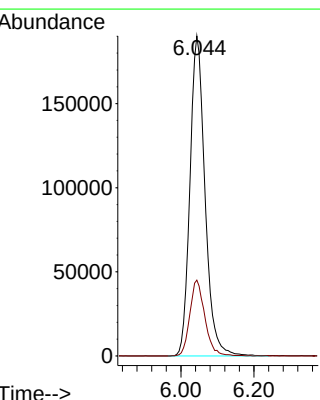
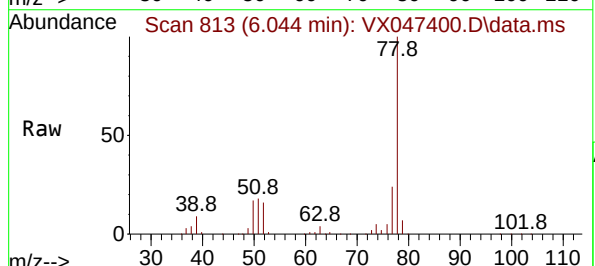
Acq: 19 Aug 2025 09:37

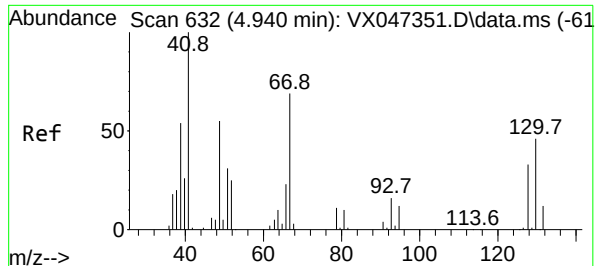
Tgt Ion: 78 Resp: 545222

Ion Ratio Lower Upper

78 100

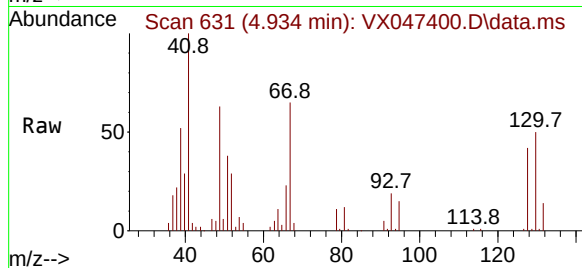
77 23.7 19.0 28.4





#41
Methacrylonitrile
Concen: 51.049 ug/l
RT: 4.934 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

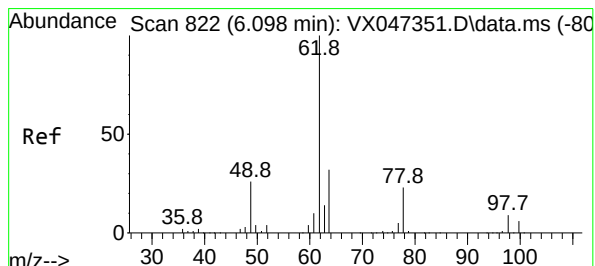
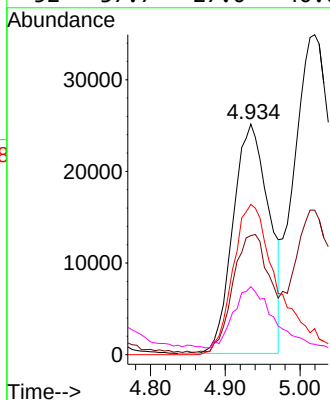
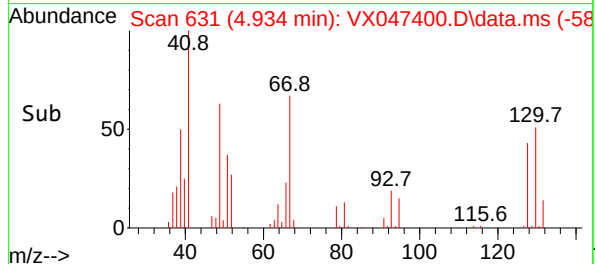
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 8358
Ion Ratio Lower Upper
41 100
39 52.3 45.4 68.2
67 85.7 64.0 96.0
52 37.7 27.0 40.6

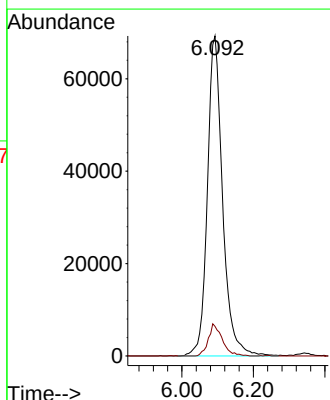
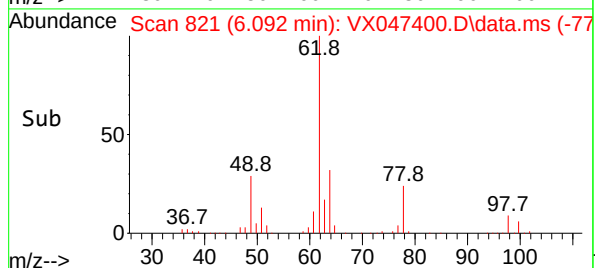
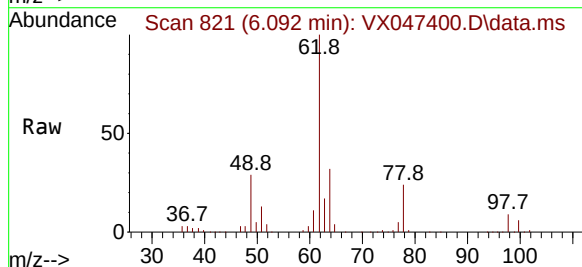
Manual Integrations
APPROVED

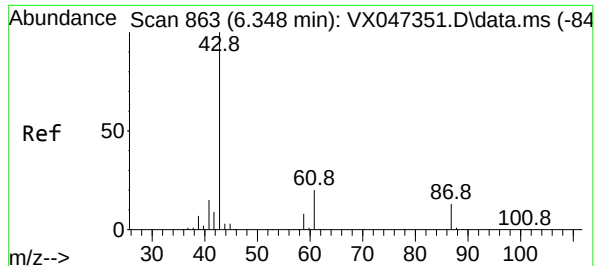
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#42
1,2-Dichloroethane
Concen: 51.678 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 62 Resp: 204929
Ion Ratio Lower Upper
62 100
98 9.2 0.0 18.0





#43

Isopropyl Acetate

Concen: 53.497 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 298419

Ion Ratio Lower Upper

43 100

61 19.3 15.4 23.0

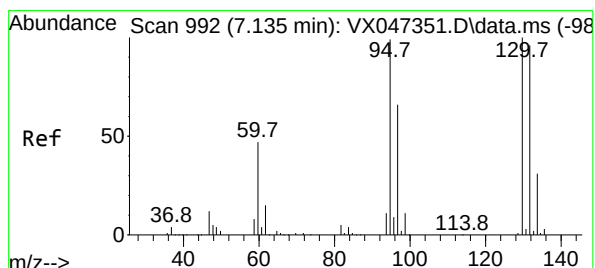
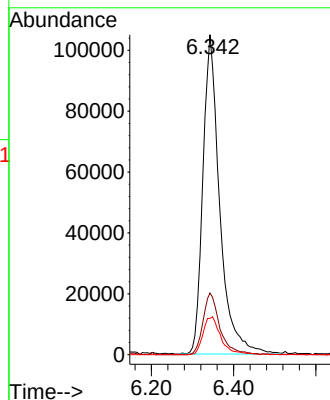
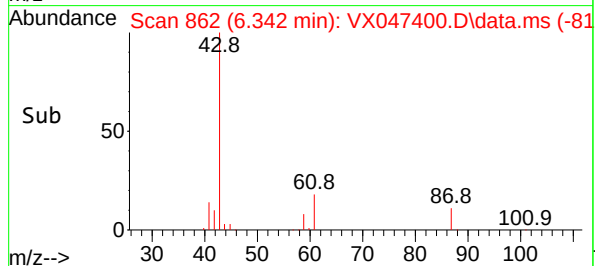
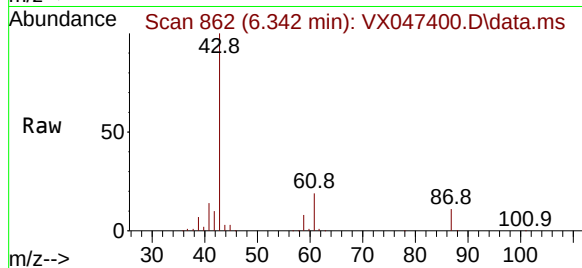
87 12.5 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#44

Trichloroethene

Concen: 45.821 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX047400.D

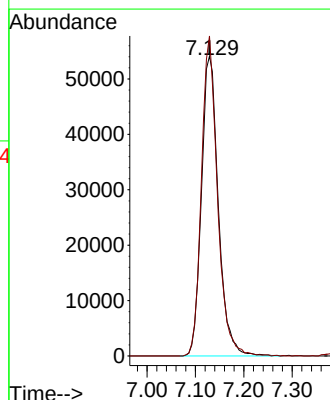
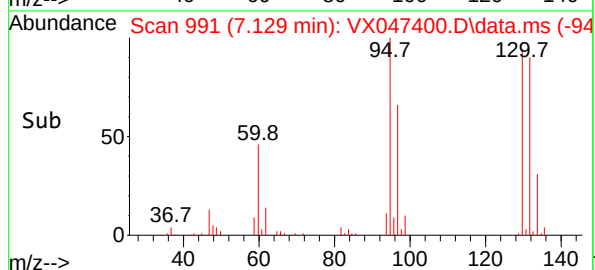
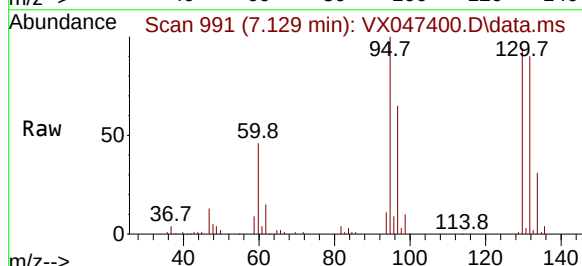
Acq: 19 Aug 2025 09:37

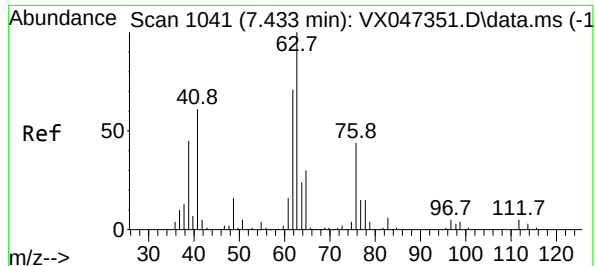
Tgt Ion:130 Resp: 131351

Ion Ratio Lower Upper

130 100

95 106.7 0.0 198.6





#45

1,2-Dichloropropane

Concen: 50.806 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 142494

Ion Ratio Lower Upper

63 100

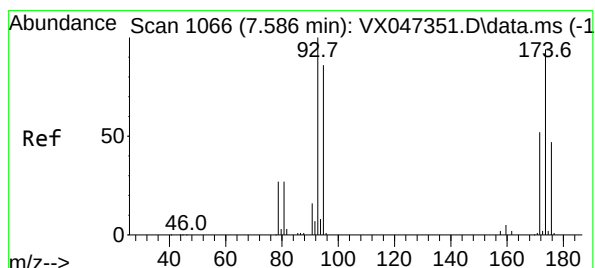
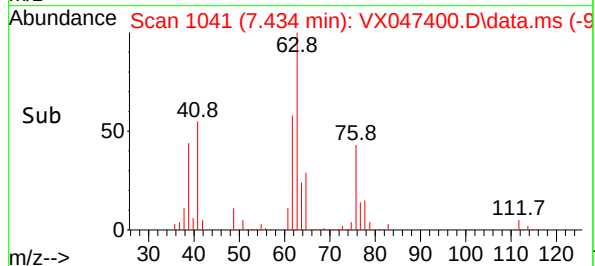
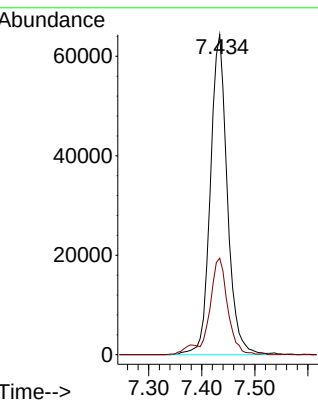
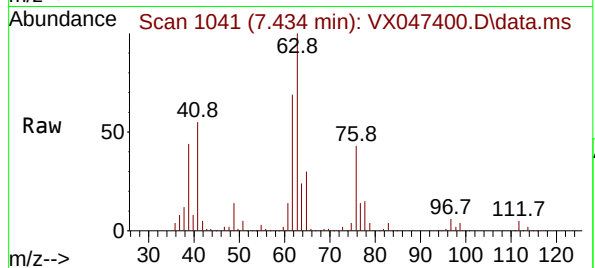
65 30.1 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#46

Dibromomethane

Concen: 50.893 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

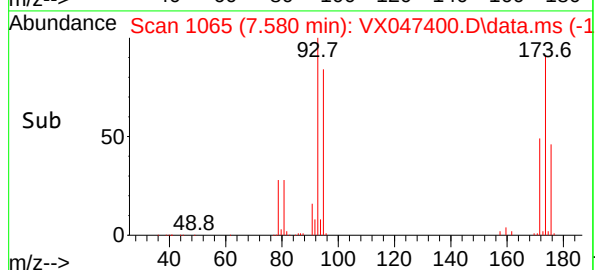
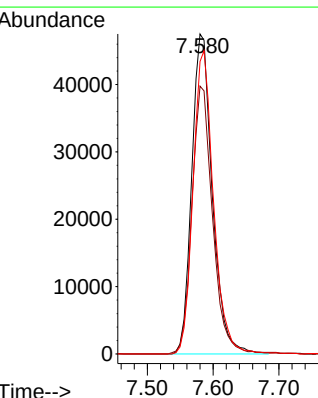
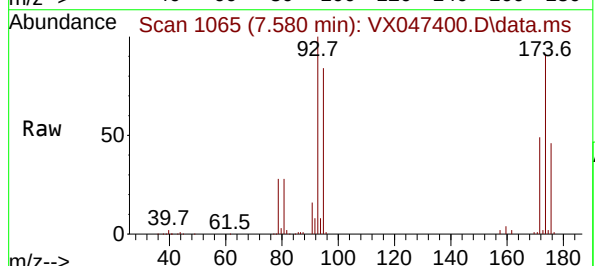
Tgt Ion: 93 Resp: 103627

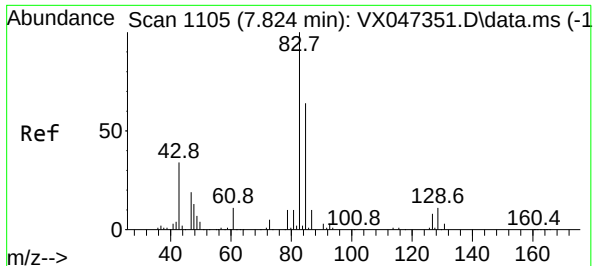
Ion Ratio Lower Upper

93 100

95 84.0 68.0 102.0

174 94.1 75.8 113.6





#47

Bromodichloromethane

Concen: 50.965 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

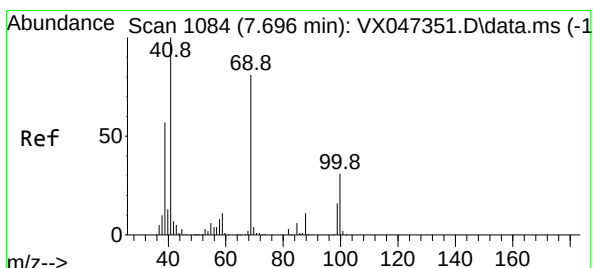
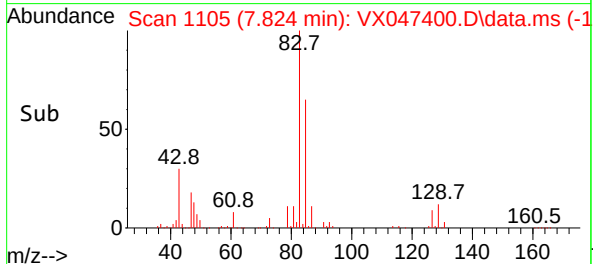
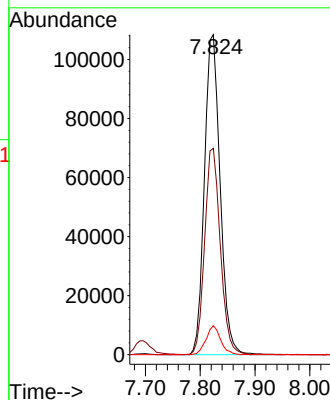
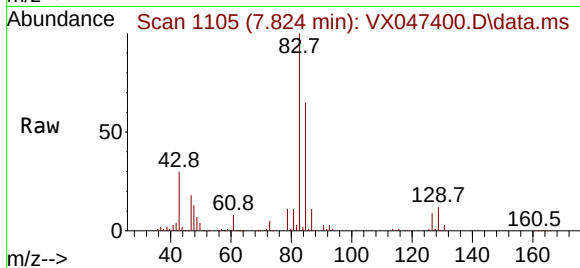
Tgt Ion:	83	Resp:	21513
Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.0	76.6
127	9.1	7.0	10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#48

Methyl methacrylate

Concen: 53.246 ug/l

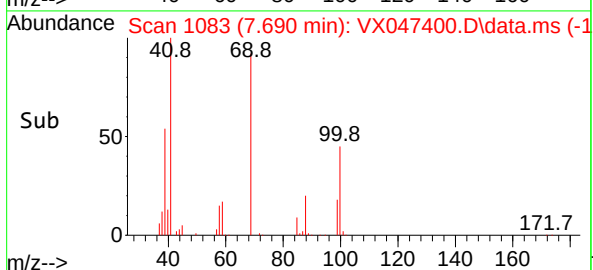
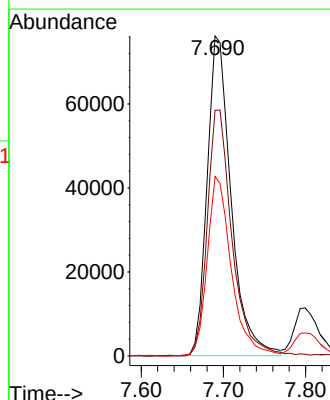
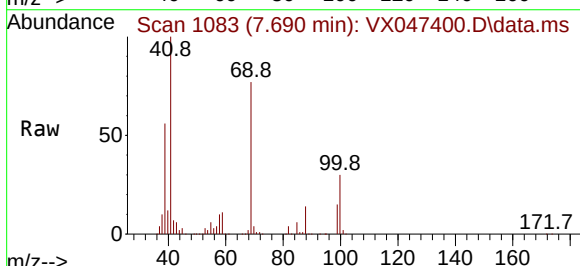
RT: 7.690 min Scan# 1083

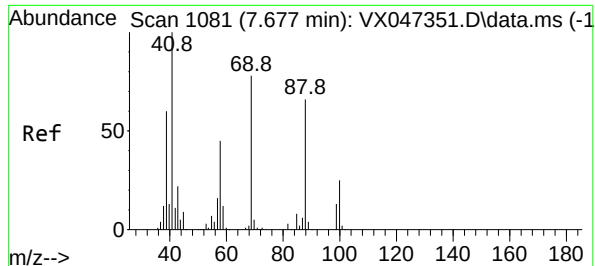
Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Tgt Ion:	41	Resp:	154171
Ion	Ratio	Lower	Upper
41	100		
69	79.7	65.0	97.4
39	56.6	45.7	68.5





#49

1,4-Dioxane

Concen: 1160.527 ug/l

RT: 7.684 min Scan# 1081

Delta R.T. 0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 3266

Ion Ratio Lower Upper

88 100

43 39.8 32.4 48.6

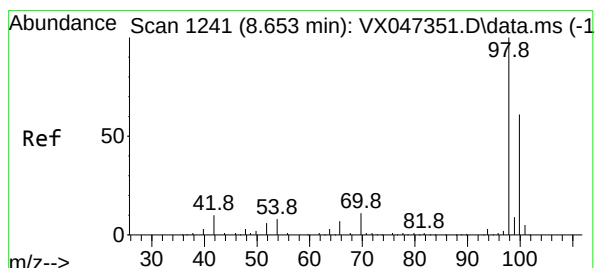
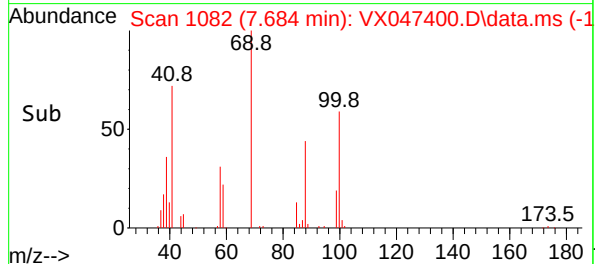
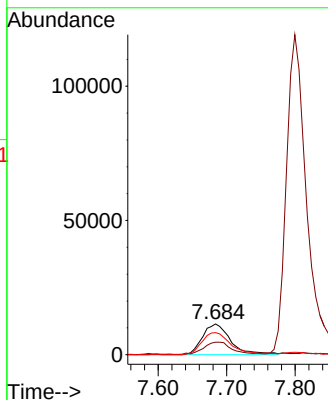
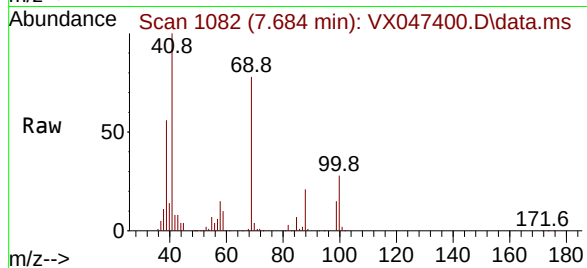
58 75.4 56.9 85.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#50

Toluene-d8

Concen: 50.584 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX047400.D

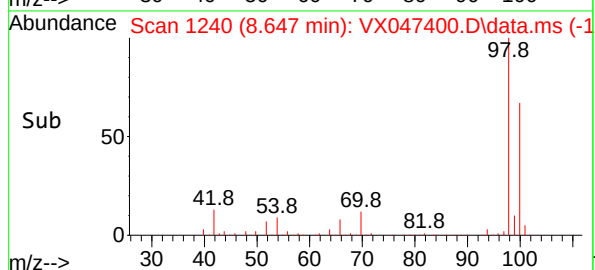
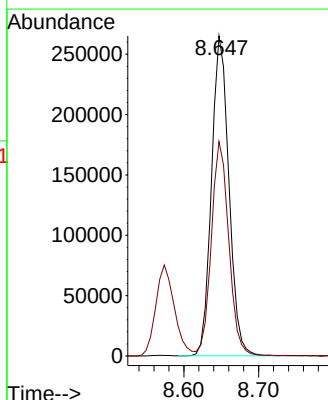
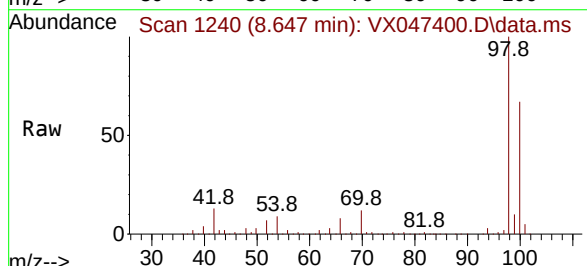
Acq: 19 Aug 2025 09:37

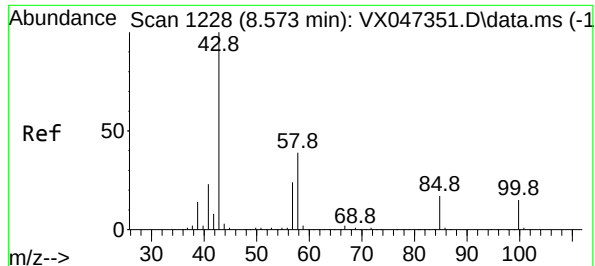
Tgt Ion: 98 Resp: 428388

Ion Ratio Lower Upper

98 100

100 66.9 53.9 80.9





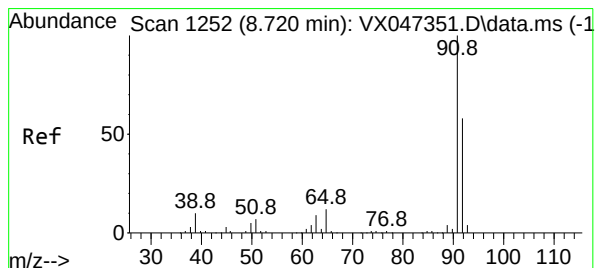
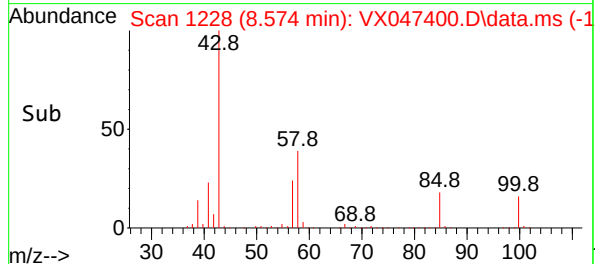
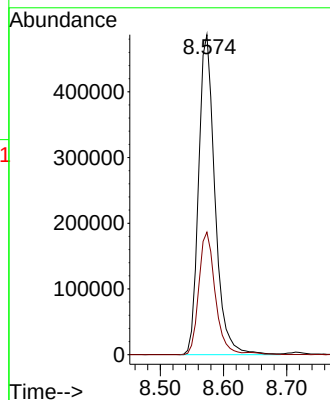
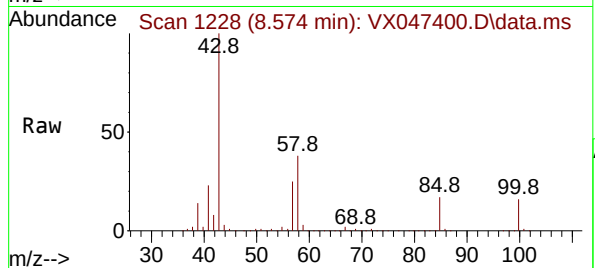
#51
4-Methyl-2-Pentanone
Concen: 272.635 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 875170
Ion Ratio Lower Upper
43 100
58 38.4 31.2 46.8

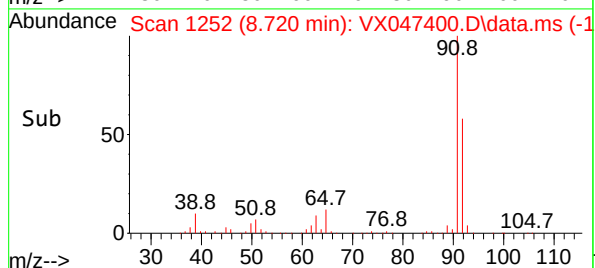
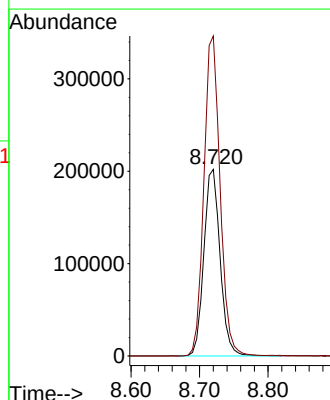
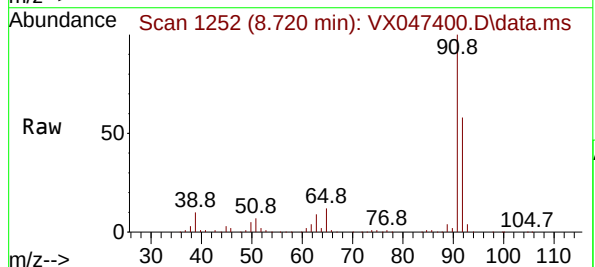
Manual Integrations
APPROVED

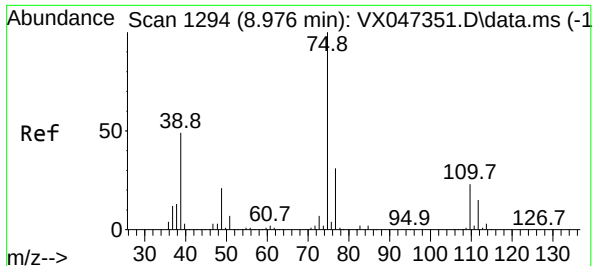
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#52
Toluene
Concen: 48.228 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

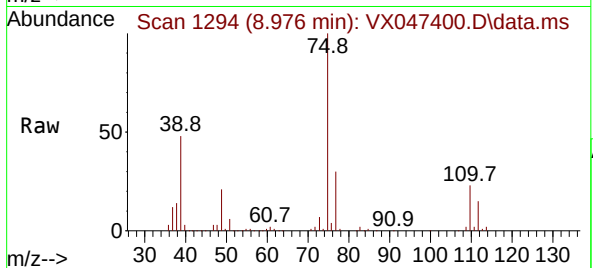
Tgt Ion: 92 Resp: 333637
Ion Ratio Lower Upper
92 100
91 171.1 136.3 204.5





#53
t-1,3-Dichloropropene
Concen: 54.796 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

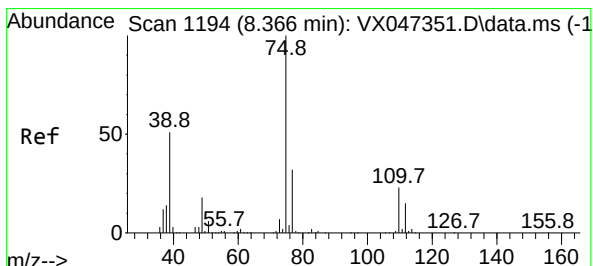
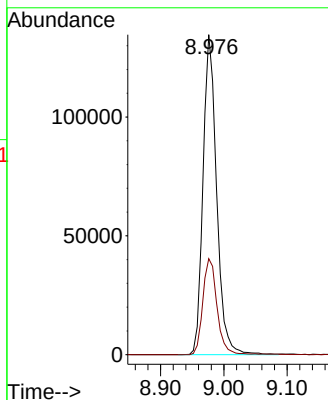
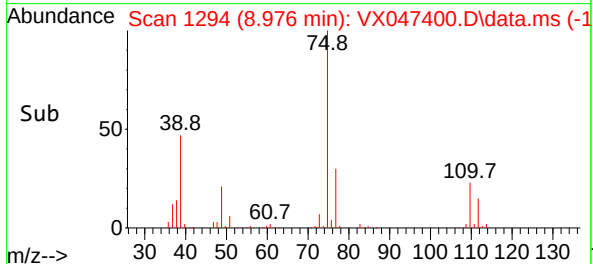
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 201870
Ion Ratio Lower Upper
75 100
77 30.0 24.7 37.1

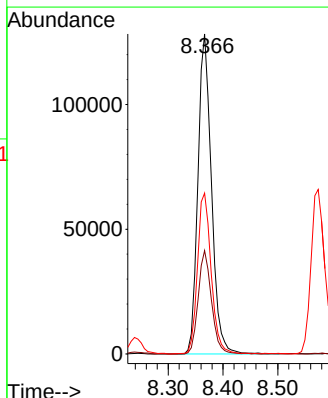
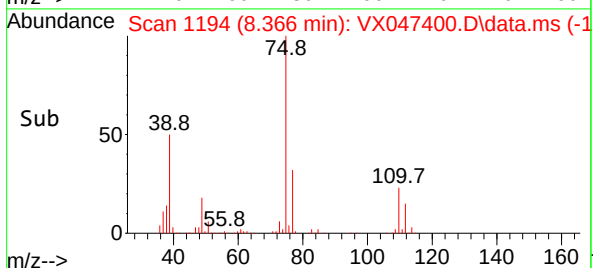
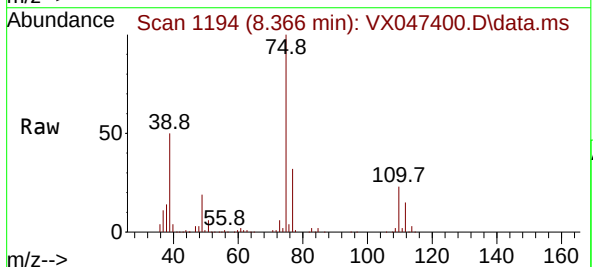
Manual Integrations
APPROVED

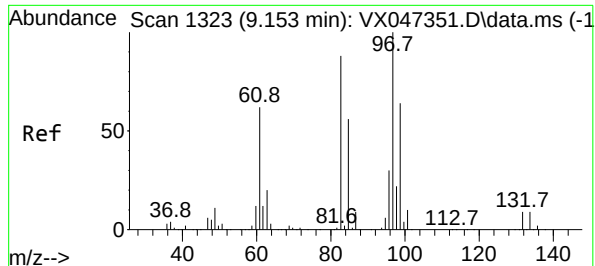
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#54
cis-1,3-Dichloropropene
Concen: 52.876 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 220487
Ion Ratio Lower Upper
75 100
77 32.3 25.6 38.4
39 50.1 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 52.264 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 137274

Ion Ratio Lower Upper

97 100

83 84.3 70.6 106.0

85 52.8 44.7 67.1

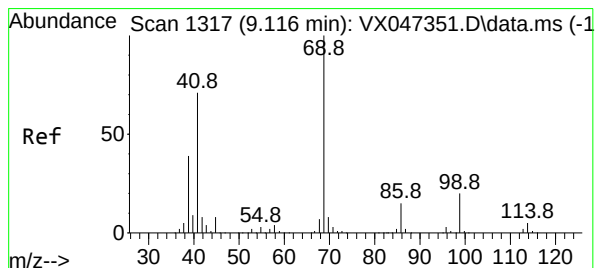
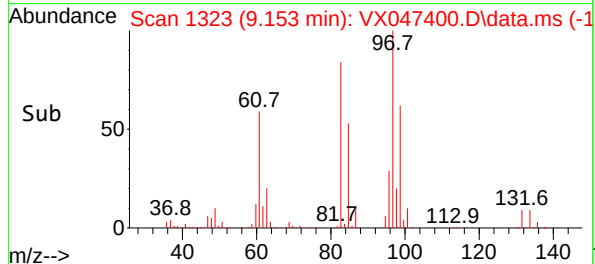
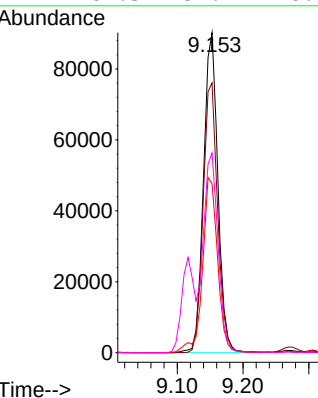
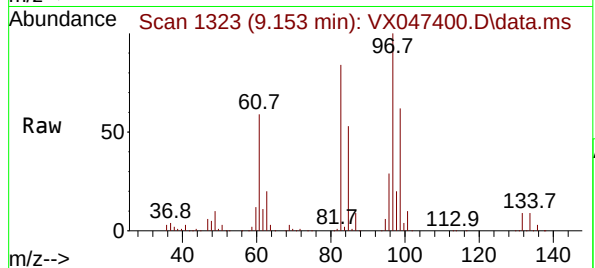
99 62.3 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#56

Ethyl methacrylate

Concen: 54.700 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

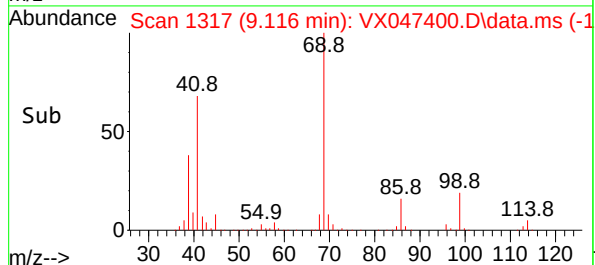
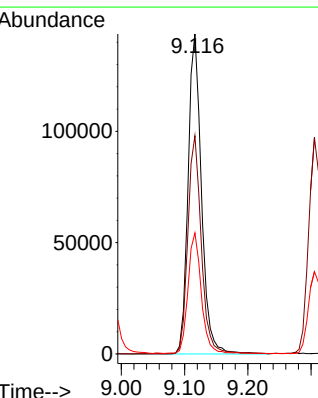
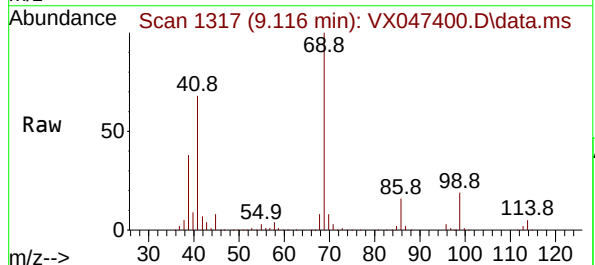
Tgt Ion: 69 Resp: 211825

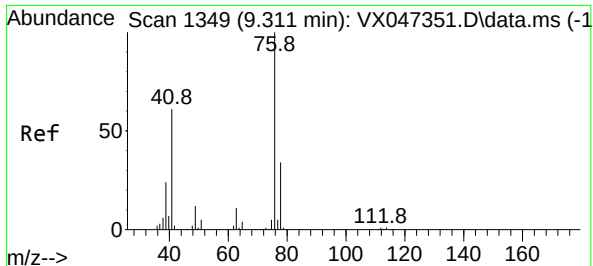
Ion Ratio Lower Upper

69 100

41 68.4 55.3 82.9

39 37.8 30.2 45.2





#57

1,3-Dichloropropane

Concen: 52.271 ug/l

RT: 9.305 min Scan# 1134

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 23394

Ion Ratio Lower Upper

76 100

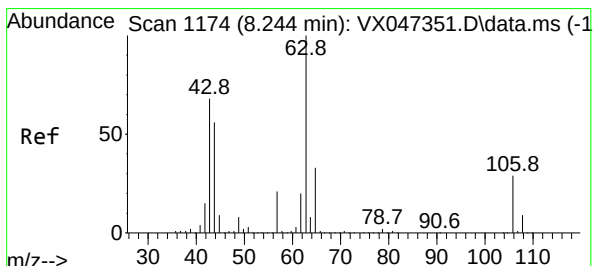
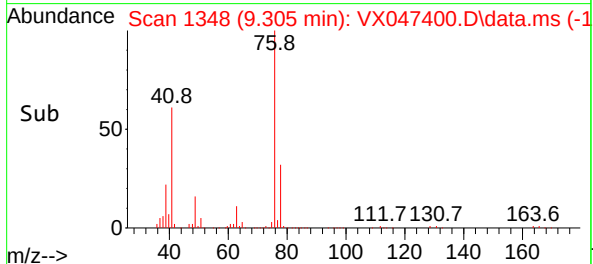
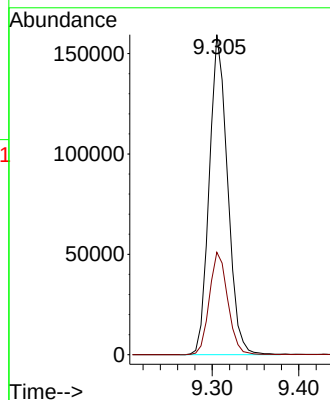
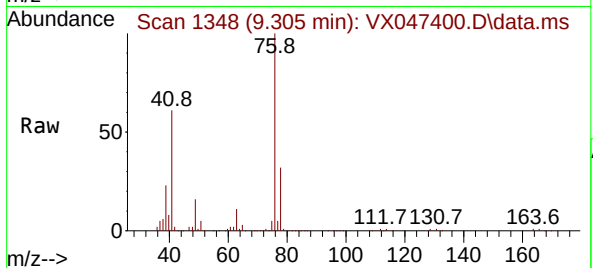
78 32.1 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#58

2-Chloroethyl Vinyl ether

Concen: 266.315 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX047400.D

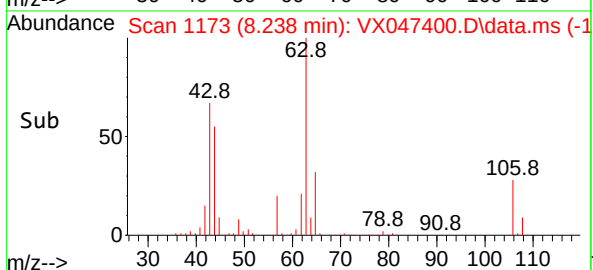
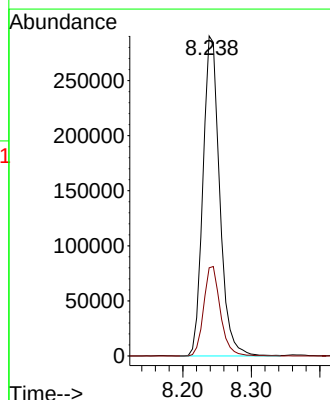
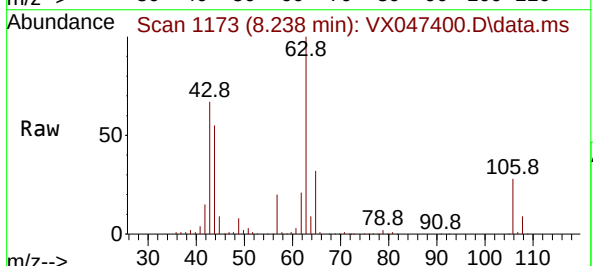
Acq: 19 Aug 2025 09:37

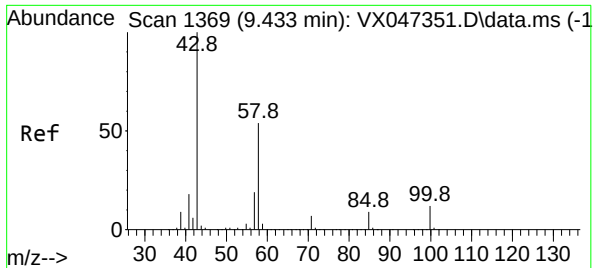
Tgt Ion: 63 Resp: 493500

Ion Ratio Lower Upper

63 100

106 27.9 22.8 34.2





#59

2-Hexanone

Concen: 270.676 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 60102

Ion Ratio Lower Upper

43

100

58

53.6

26.9

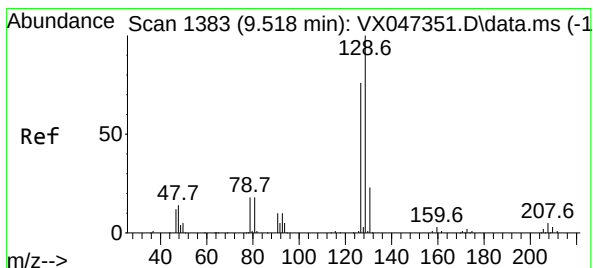
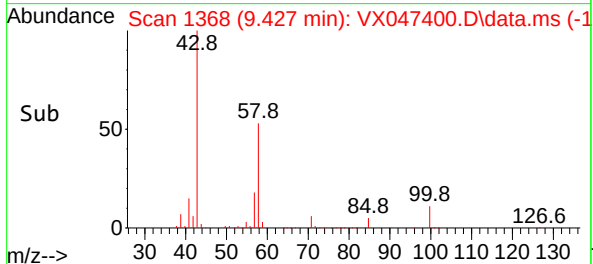
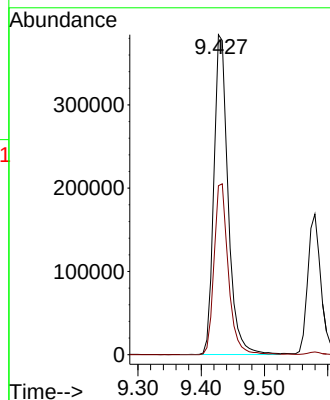
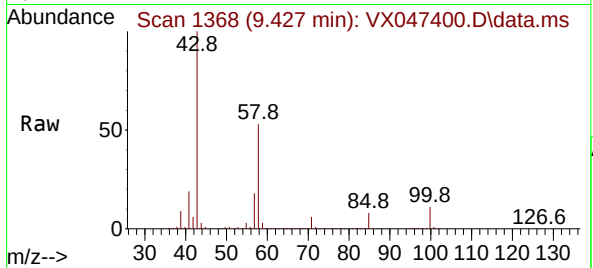
80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#60

Dibromochloromethane

Concen: 51.968 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Tgt Ion:129 Resp: 162215

Ion Ratio Lower Upper

129

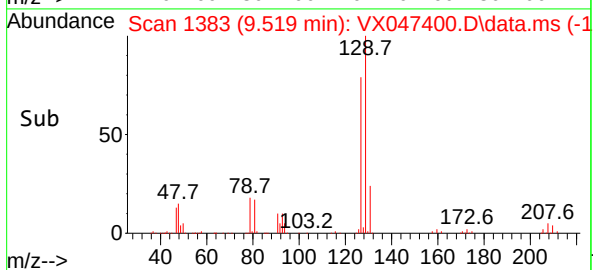
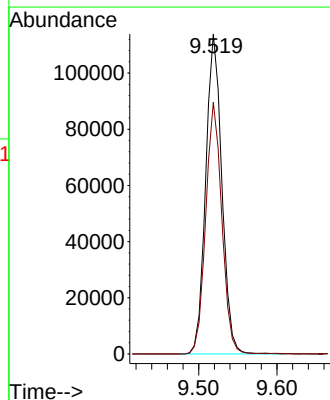
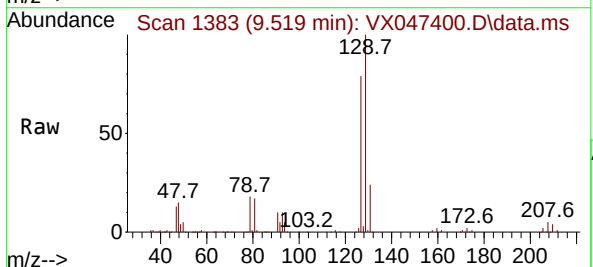
100

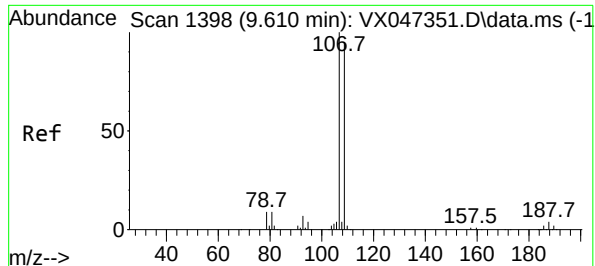
127

78.5

38.9

116.6





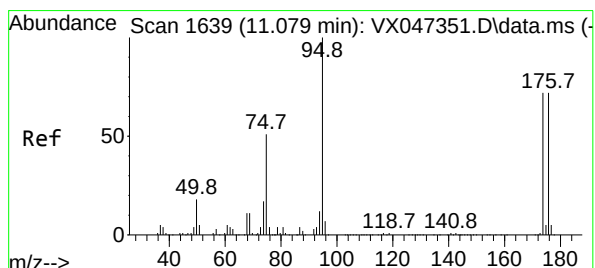
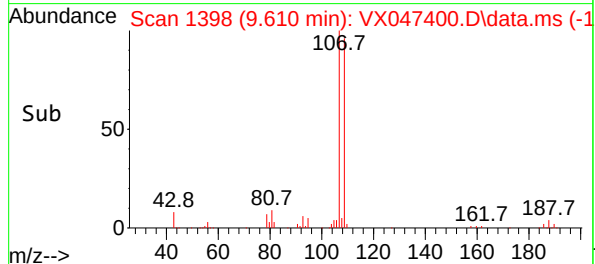
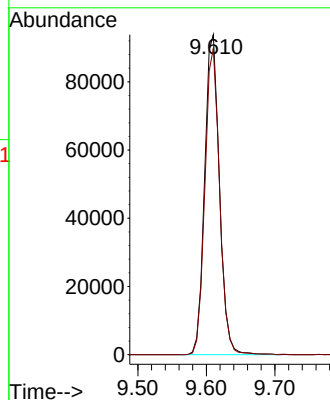
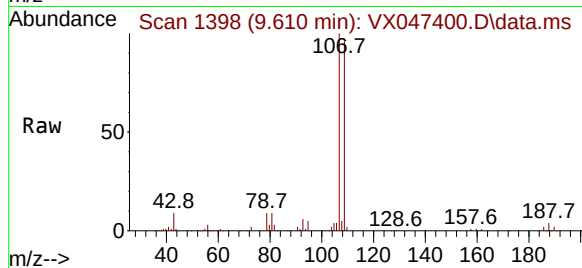
#61
1,2-Dibromoethane
Concen: 52.124 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDC050

Tgt Ion:107 Resp: 141178
Ion Ratio Lower Upper
107 100
109 95.2 76.2 114.2

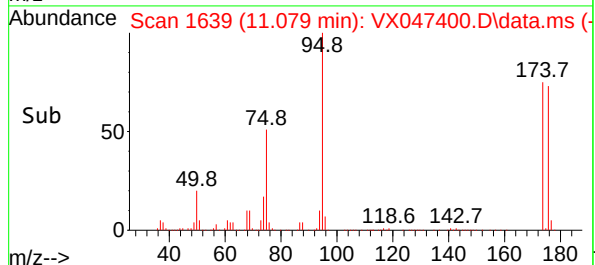
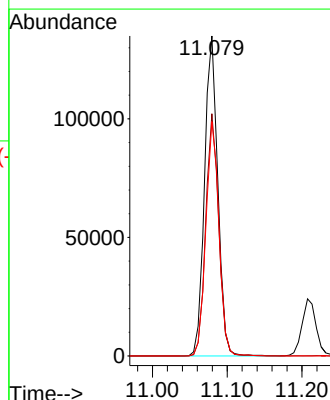
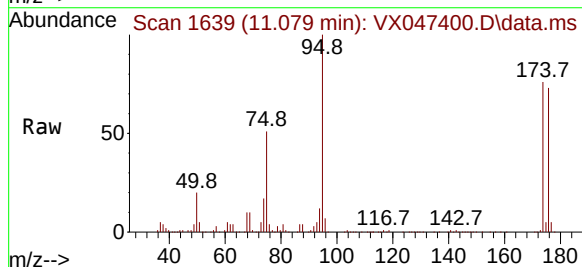
Manual Integrations
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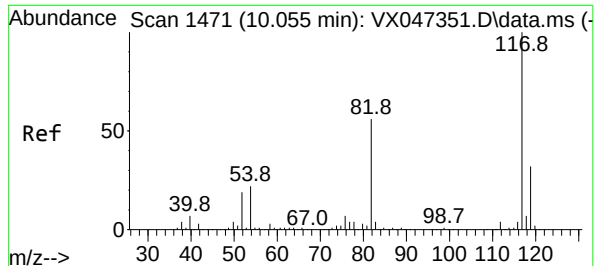
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#62
4-Bromofluorobenzene
Concen: 53.183 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

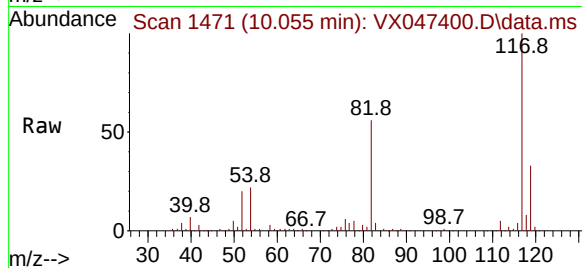
Tgt Ion: 95 Resp: 166205
Ion Ratio Lower Upper
95 100
174 73.7 0.0 148.0
176 72.4 0.0 145.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

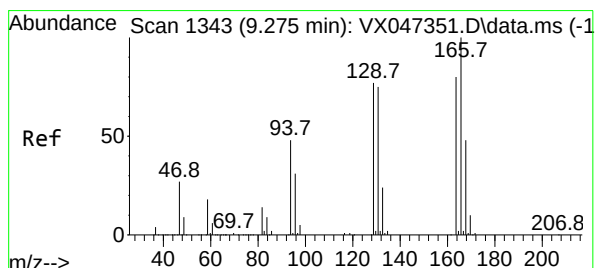
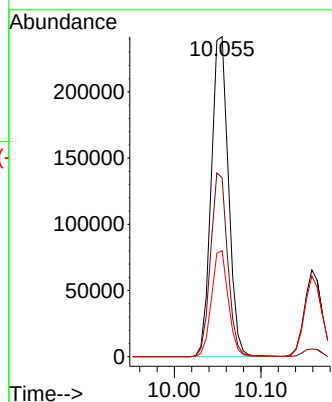
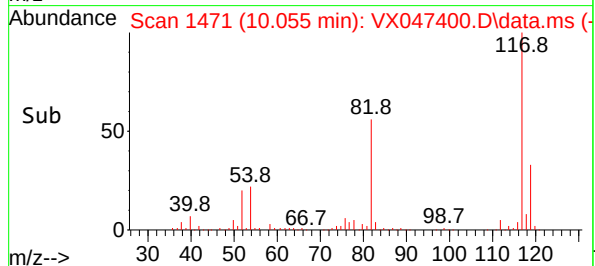
Instrument :
MSVOA_X
ClientSampleId :
VSTDC0050



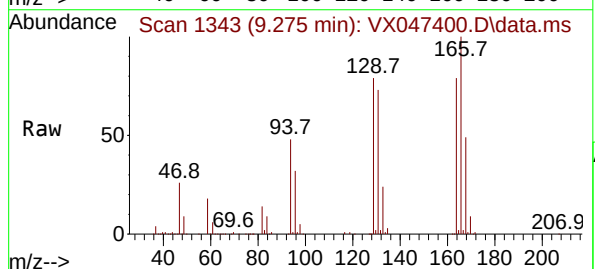
Tgt Ion:117 Resp: 33405
Ion Ratio Lower Upper
117 100
82 56.0 45.0 67.4
119 33.2 25.8 38.8

Manual Integrations
APPROVED

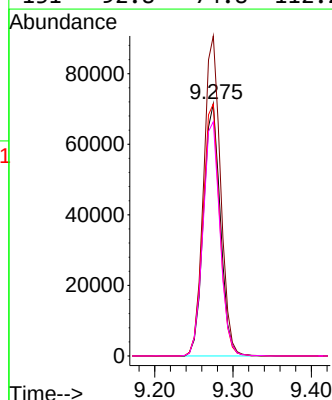
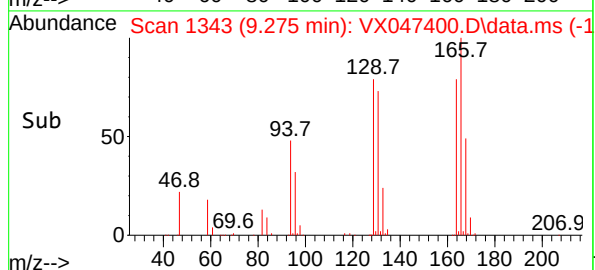
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

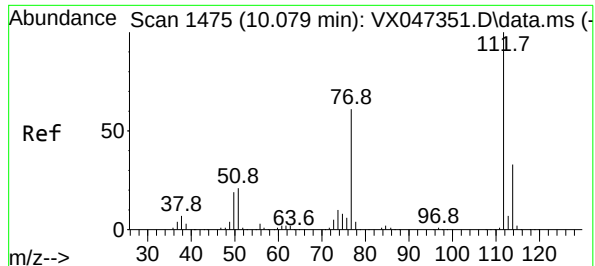


#64
Tetrachloroethene
Concen: 44.081 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37



Tgt Ion:164 Resp: 106511
Ion Ratio Lower Upper
164 100
166 126.9 100.3 150.5
129 99.9 77.7 116.5
131 92.8 74.8 112.2





#65

Chlorobenzene

Concen: 47.476 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 376884

Ion Ratio Lower Upper

112 100

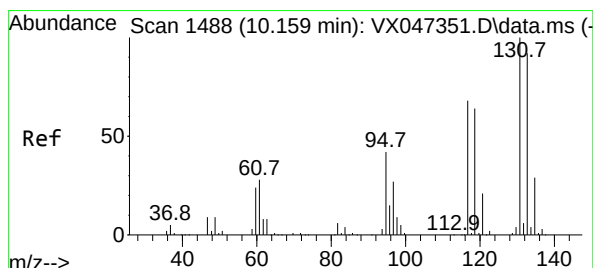
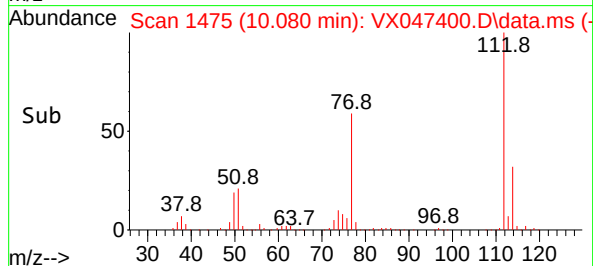
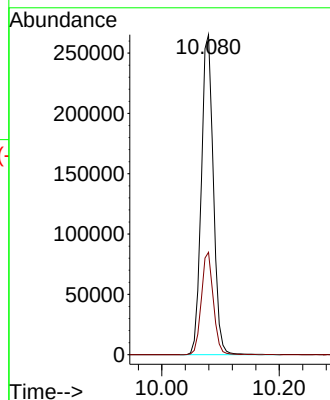
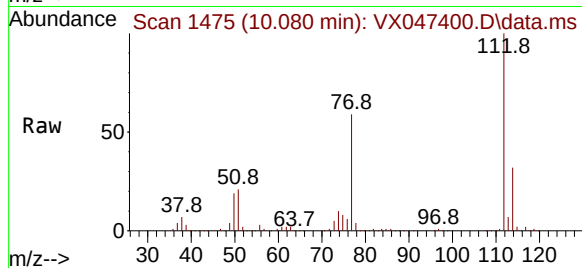
114 32.0 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 49.556 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

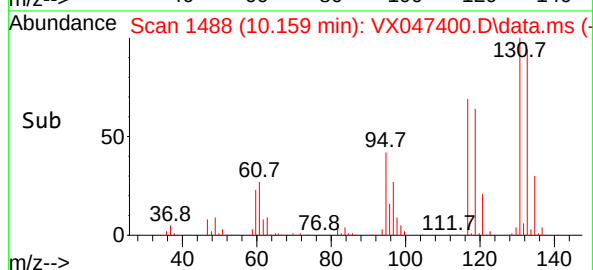
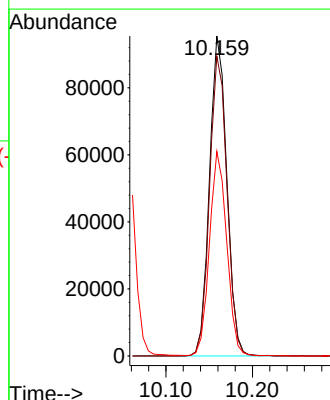
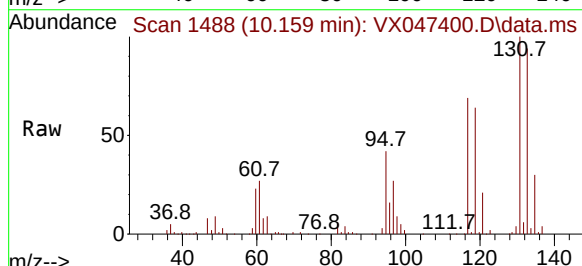
Tgt Ion:131 Resp: 132983

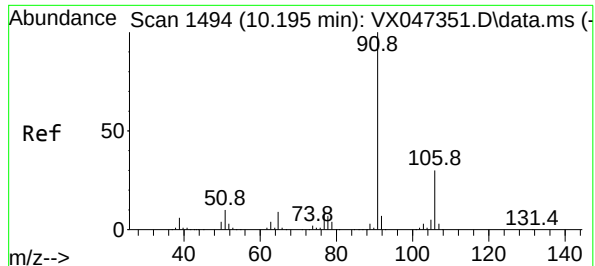
Ion Ratio Lower Upper

131 100

133 94.5 47.6 142.9

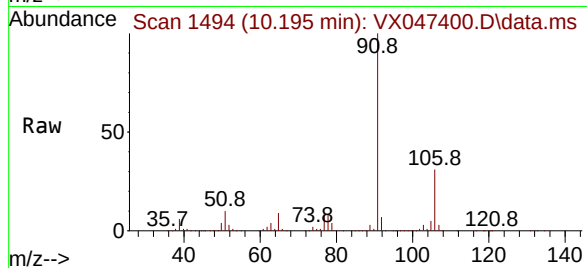
119 63.7 32.3 96.8





#67
Ethyl Benzene
Concen: 47.006 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

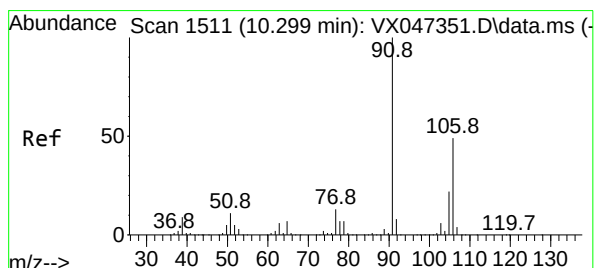
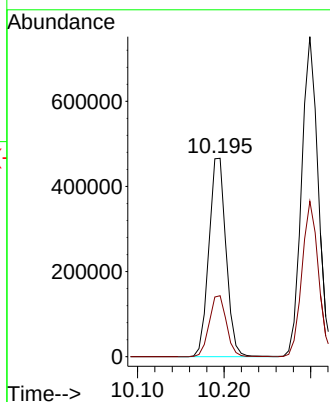
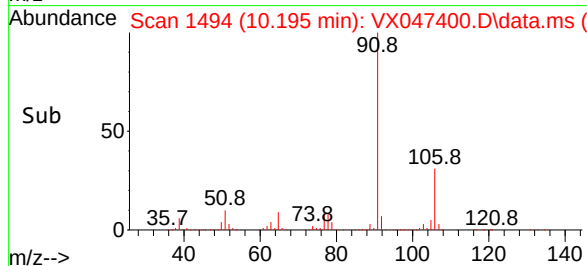
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



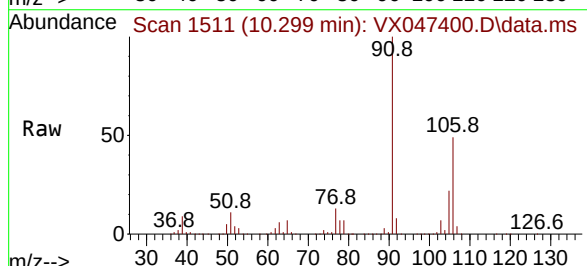
Tgt Ion: 91 Resp: 64224
Ion Ratio Lower Upper
91 100
106 30.7 24.4 36.6

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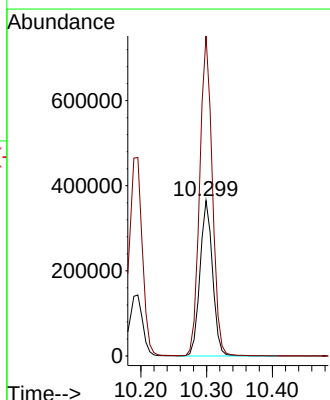
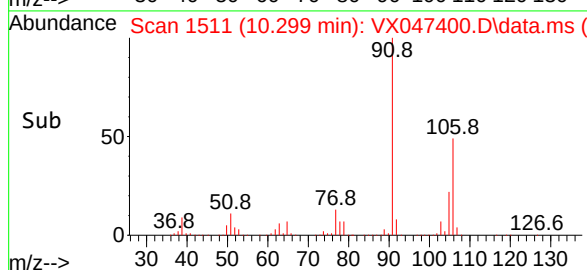
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

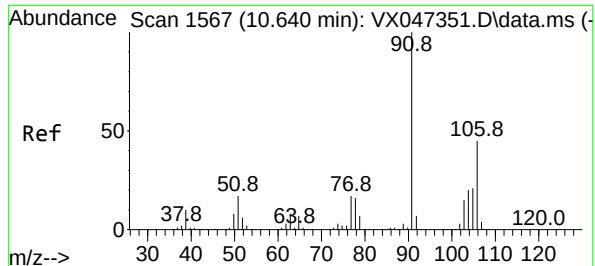


#68
m/p-Xylenes
Concen: 95.157 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37



Tgt Ion:106 Resp: 484787
Ion Ratio Lower Upper
106 100
91 206.5 164.7 247.1





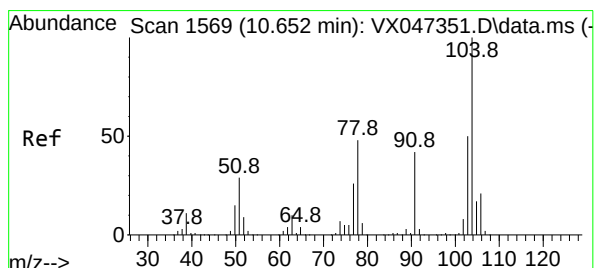
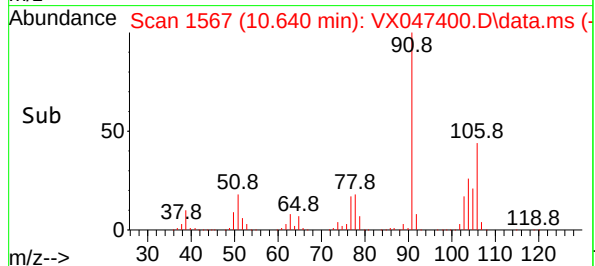
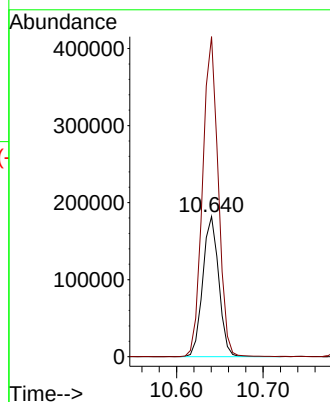
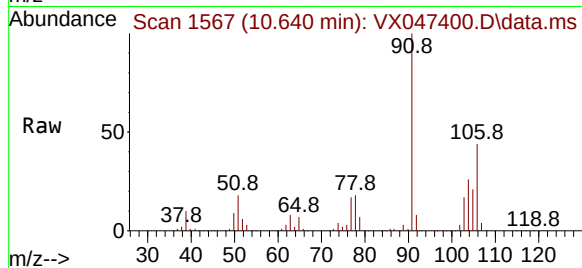
#69
o-Xylene
Concen: 47.570 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 23322
Ion Ratio Lower Upper
106 100
91 223.5 110.6 331.8

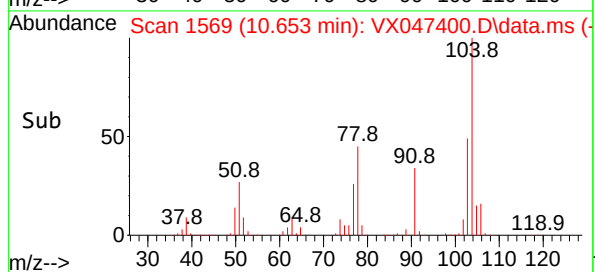
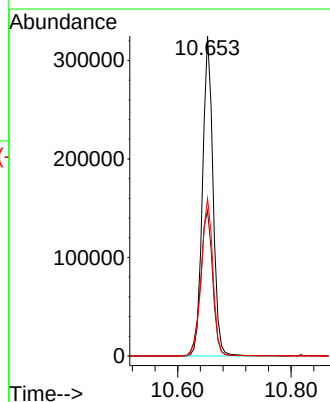
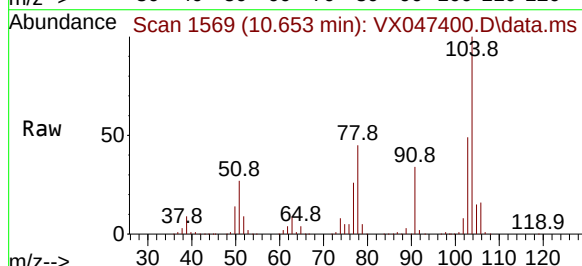
Manual Integrations
APPROVED

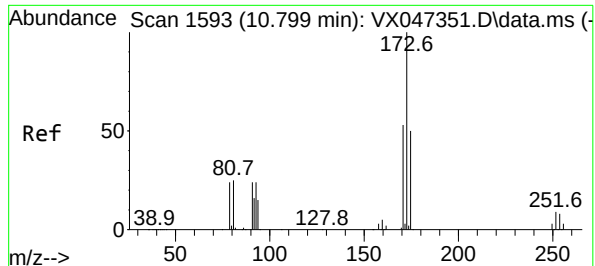
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#70
Styrene
Concen: 50.426 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion:104 Resp: 417727
Ion Ratio Lower Upper
104 100
78 52.0 41.8 62.8
103 54.4 43.6 65.4





#71

Bromoform

Concen: 52.336 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:173 Resp: 105509

Ion Ratio Lower Upper

173 100

175 48.0 24.4 73.4

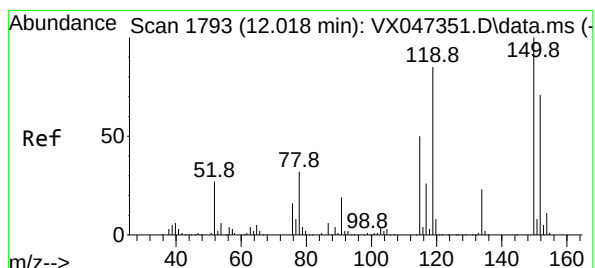
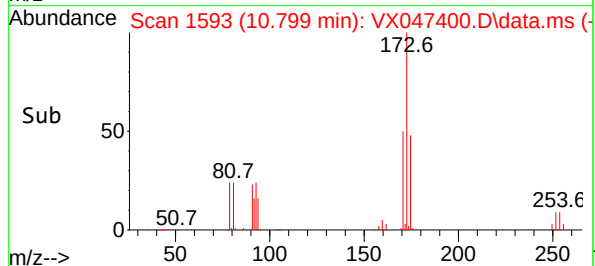
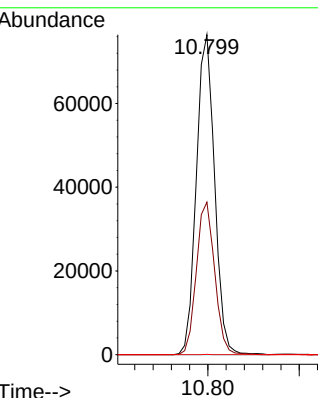
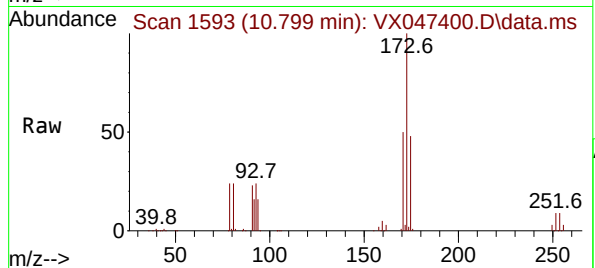
254 0.0 0.1 0.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

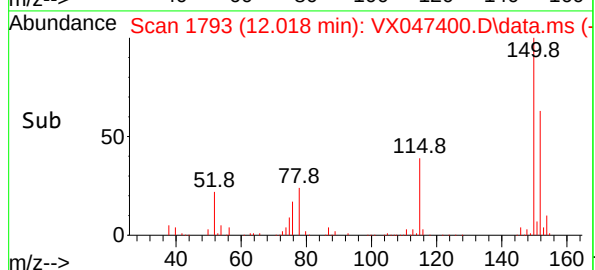
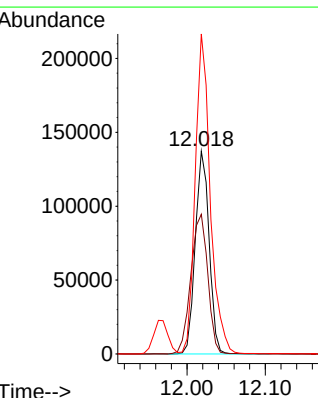
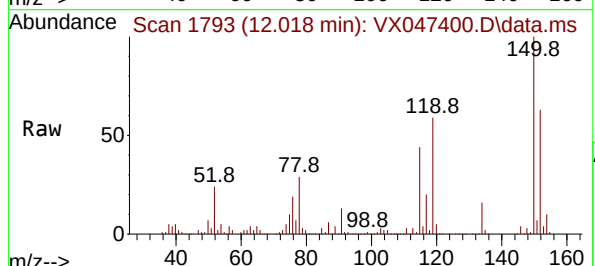
Tgt Ion:152 Resp: 167955

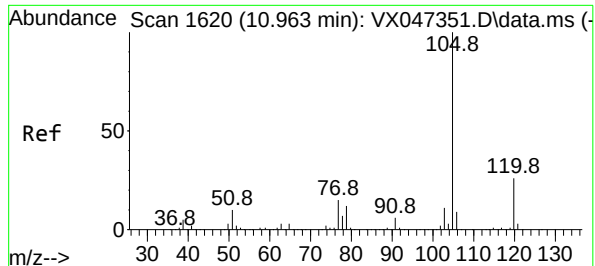
Ion Ratio Lower Upper

152 100

115 84.5 44.6 133.8

150 171.4 0.0 349.8





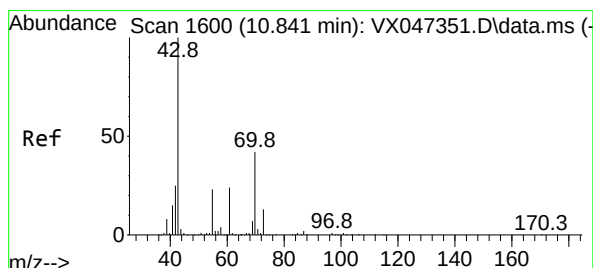
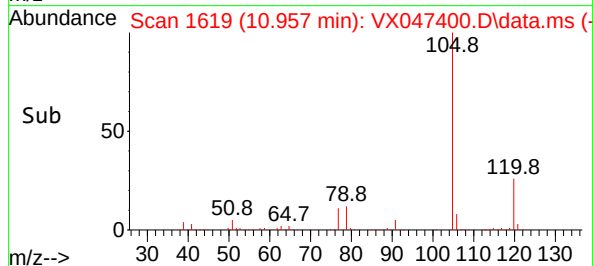
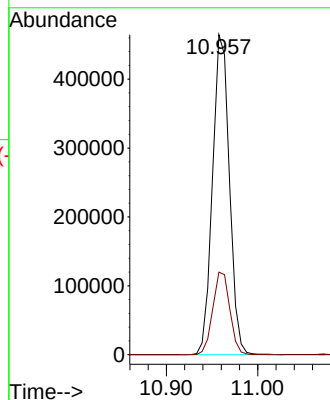
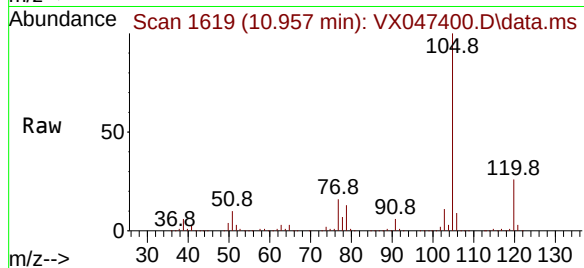
#73
Isopropylbenzene
Concen: 45.232 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 105 Resp: 59450
Ion Ratio Lower Upper
105 100
120 26.1 12.9 38.6

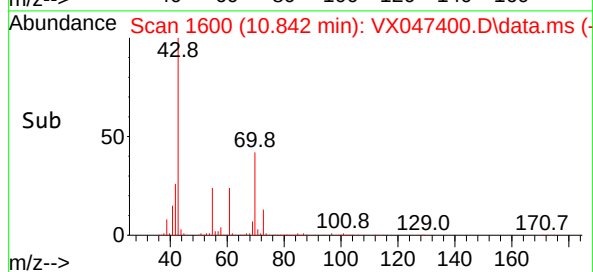
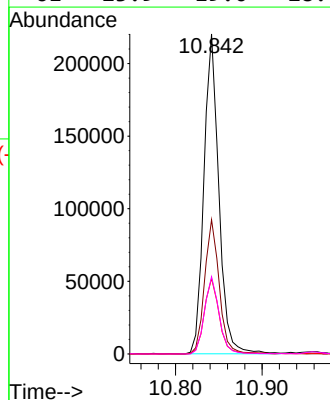
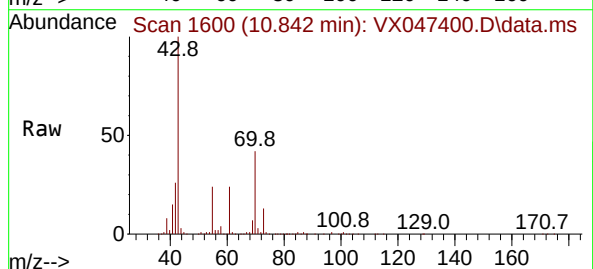
Manual Integrations
APPROVED

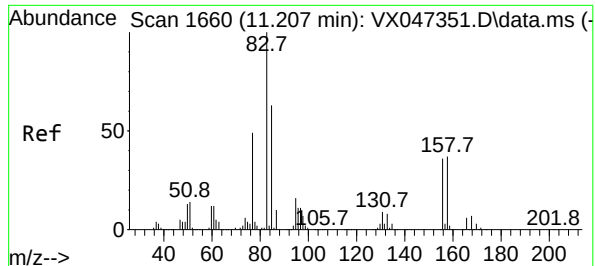
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#74
N-ethyl acetate
Concen: 52.861 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 43 Resp: 263829
Ion Ratio Lower Upper
43 100
70 41.4 33.1 49.7
55 23.7 19.0 28.6
61 23.9 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 50.522 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 194960

Ion Ratio Lower Upper

83 100

131 9.9 5.0 15.0

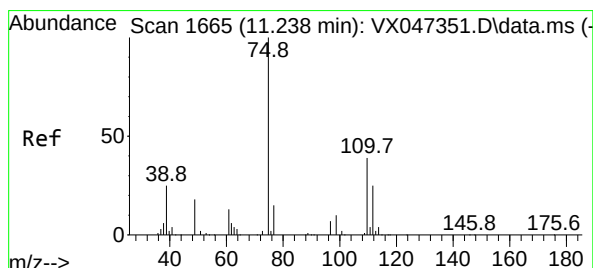
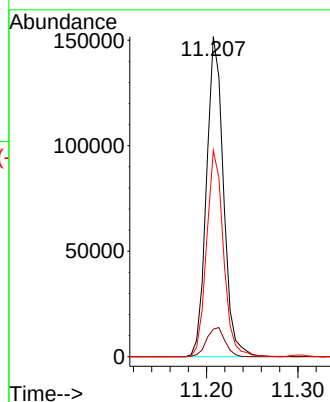
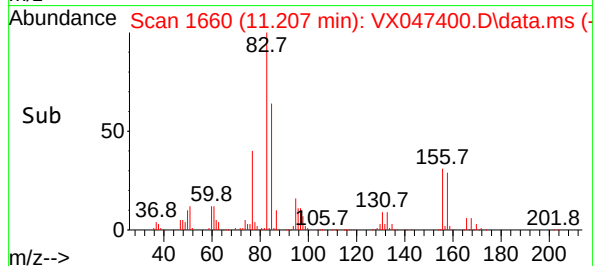
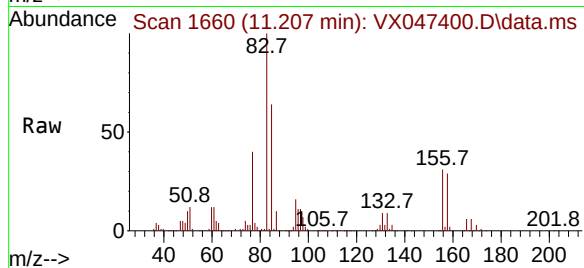
85 63.9 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#76

1,2,3-Trichloropropane

Concen: 49.366 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX047400.D

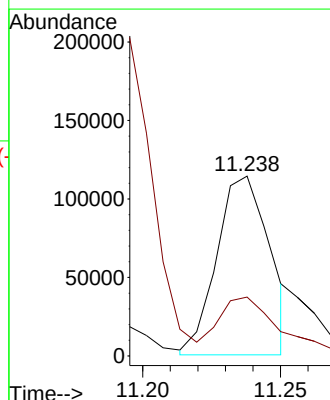
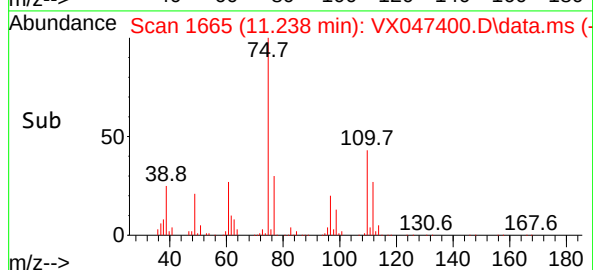
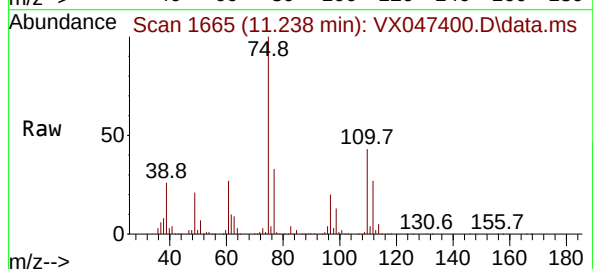
Acq: 19 Aug 2025 09:37

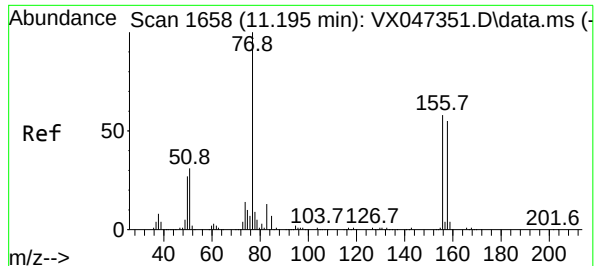
Tgt Ion: 75 Resp: 152071

Ion Ratio Lower Upper

75 100

77 39.4 19.4 58.2





#77

Bromobenzene

Concen: 48.962 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:156 Resp: 15714

Ion Ratio Lower Upper

156 100

77 169.6 86.3 258.9

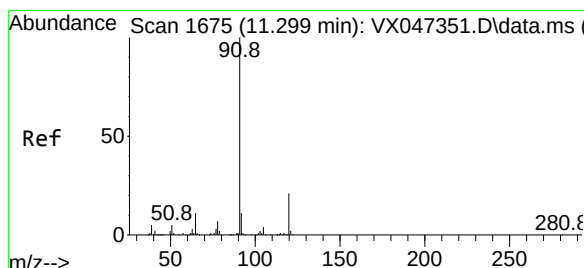
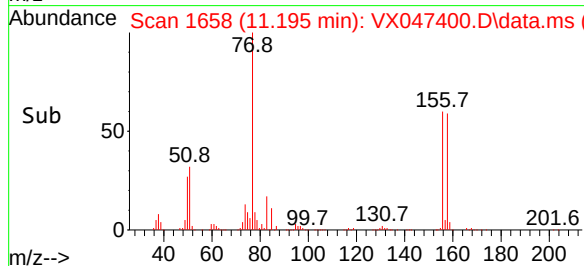
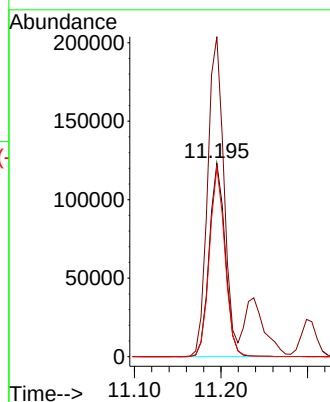
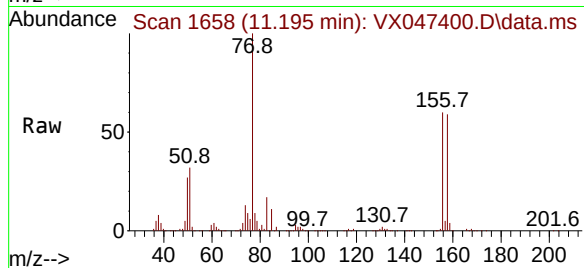
158 95.7 48.0 144.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#78

n-propylbenzene

Concen: 45.715 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. 0.000 min

Lab File: VX047400.D

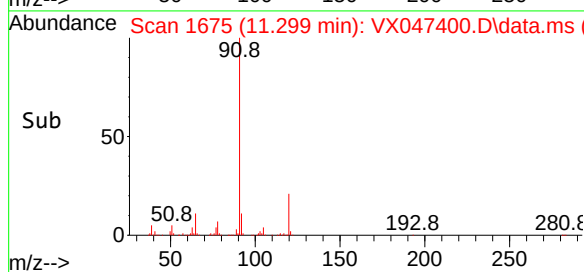
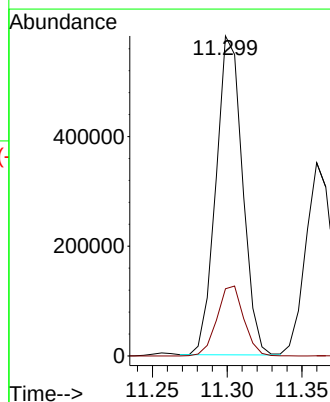
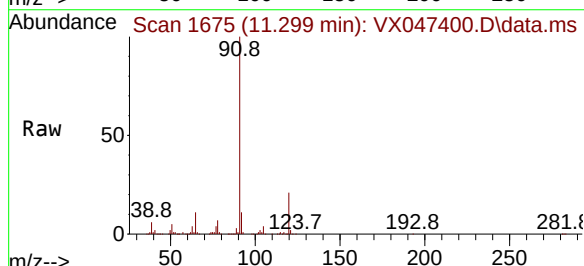
Acq: 19 Aug 2025 09:37

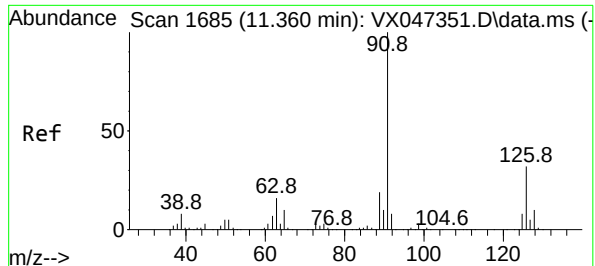
Tgt Ion: 91 Resp: 717602

Ion Ratio Lower Upper

91 100

120 22.2 11.0 33.0





#79

2-Chlorotoluene

Concen: 46.220 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 43858

Ion Ratio Lower Upper

91 100

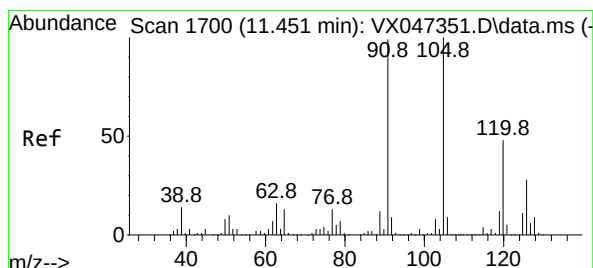
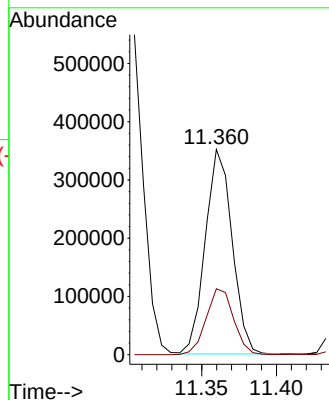
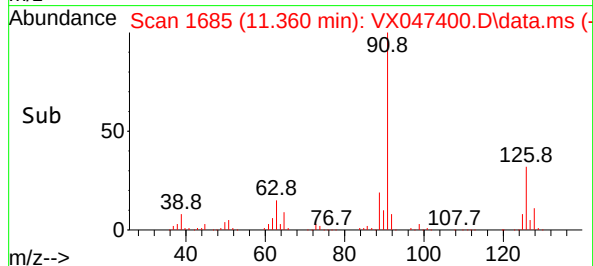
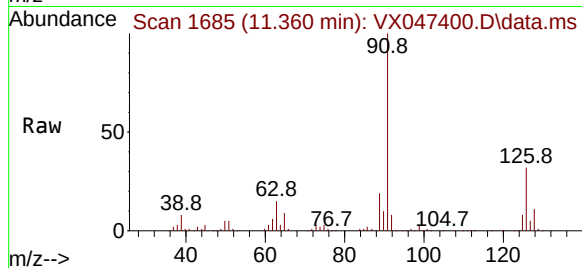
126 32.9 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#80

1,3,5-Trimethylbenzene

Concen: 46.784 ug/l

RT: 11.445 min Scan# 1699

Delta R.T. -0.006 min

Lab File: VX047400.D

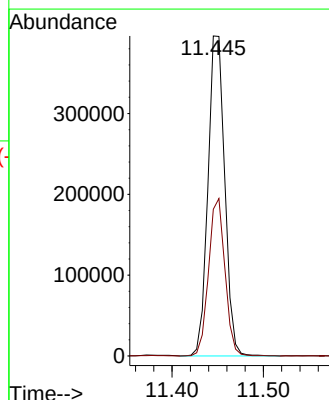
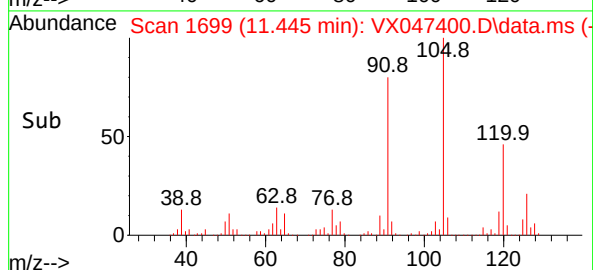
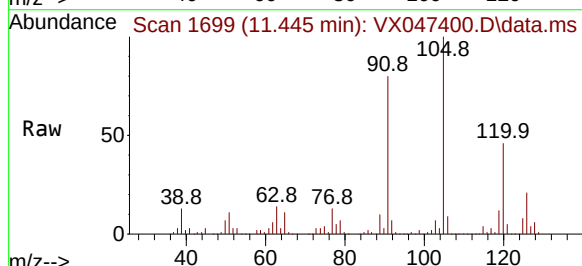
Acq: 19 Aug 2025 09:37

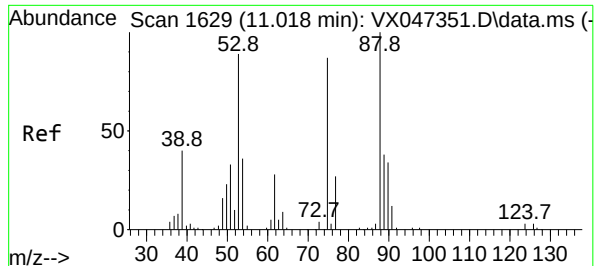
Tgt Ion:105 Resp: 505924

Ion Ratio Lower Upper

105 100

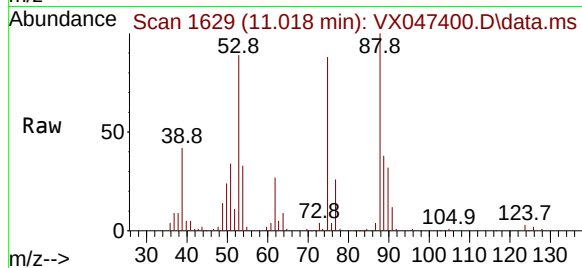
120 48.0 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 44.250 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

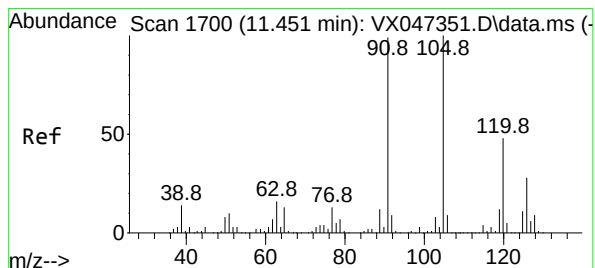
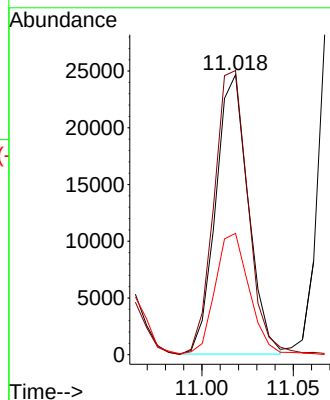
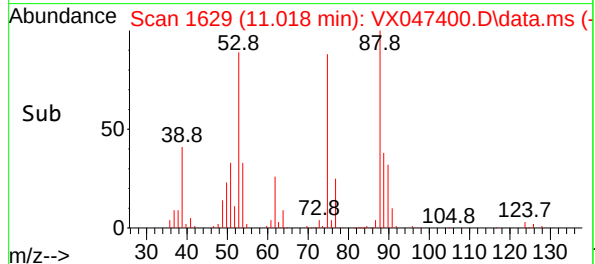
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



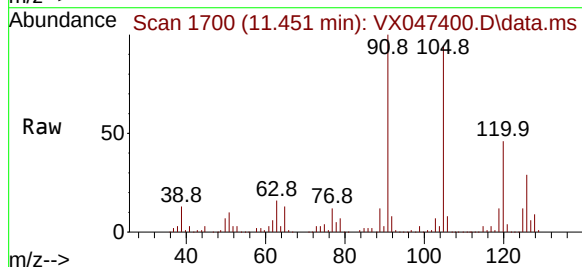
Tgt Ion: 75 Resp: 30598
Ion Ratio Lower Upper
75 100
53 107.2 85.2 127.8
89 45.9 36.7 55.1

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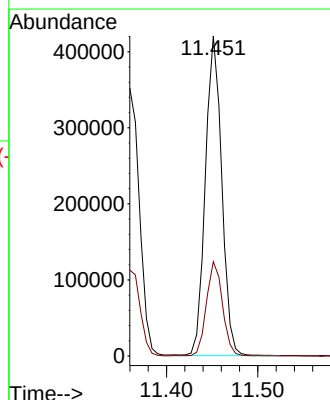
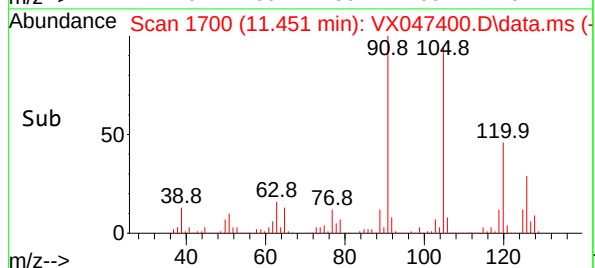
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

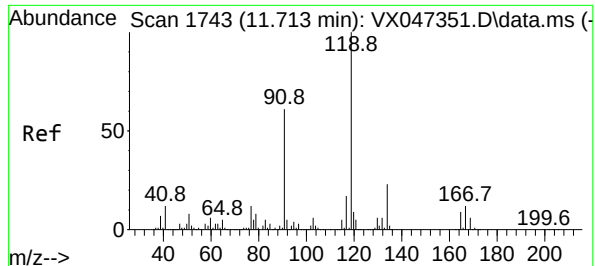


#82
4-Chlorotoluene
Concen: 46.620 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37



Tgt Ion: 91 Resp: 521477
Ion Ratio Lower Upper
91 100
126 28.9 14.4 43.0





#83

tert-Butylbenzene

Concen: 47.081 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 50795

Ion Ratio Lower Upper

119 100

91 56.8 29.1 87.4

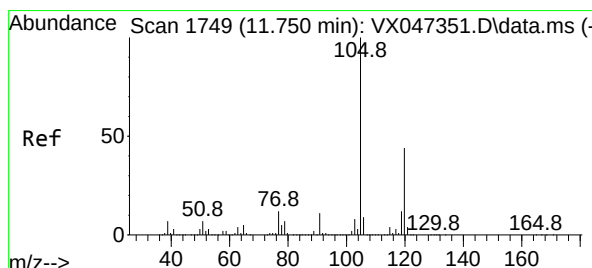
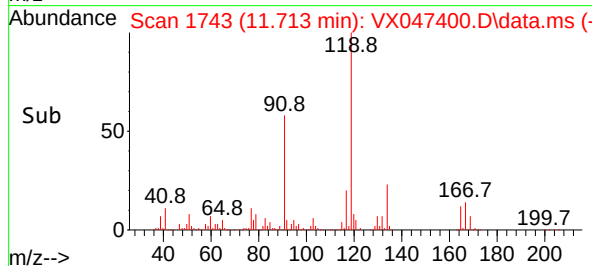
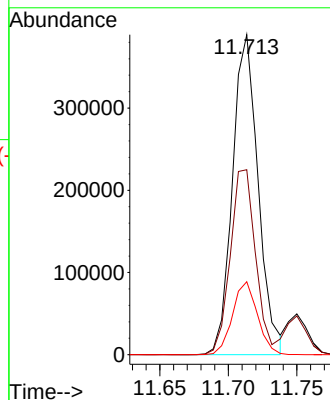
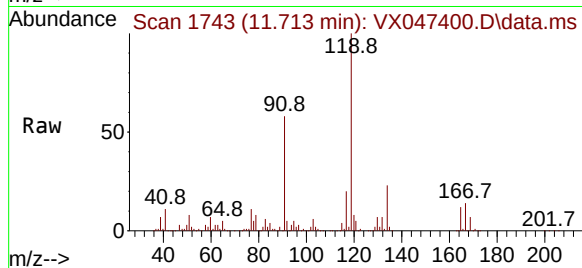
134 22.2 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#84

1,2,4-Trimethylbenzene

Concen: 47.529 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047400.D

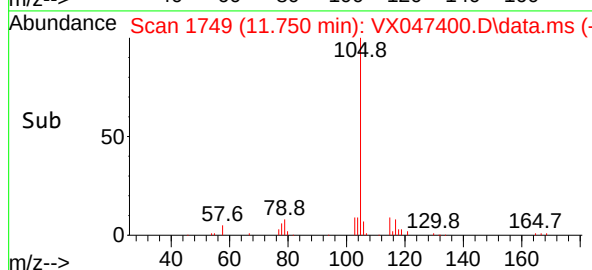
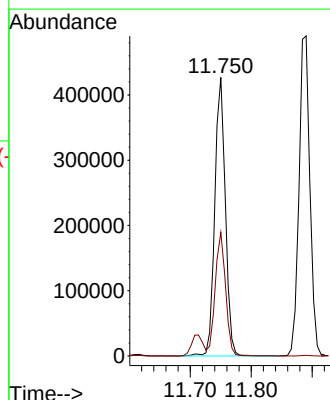
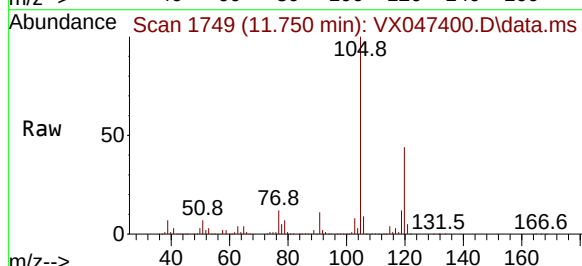
Acq: 19 Aug 2025 09:37

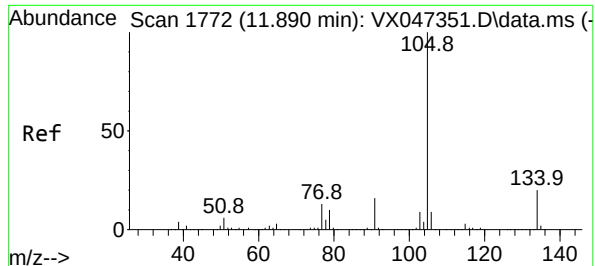
Tgt Ion:105 Resp: 513998

Ion Ratio Lower Upper

105 100

120 43.4 21.9 65.7





#85

sec-Butylbenzene

Concen: 45.552 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 60914

Ion Ratio Lower Upper

105 100

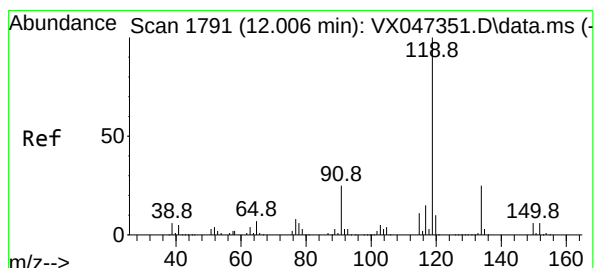
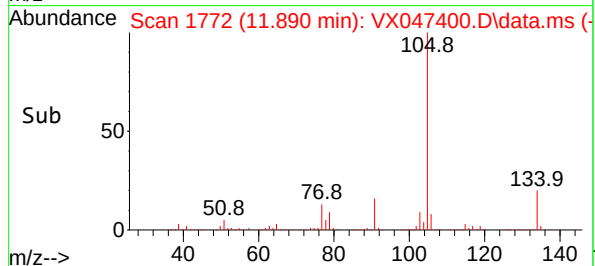
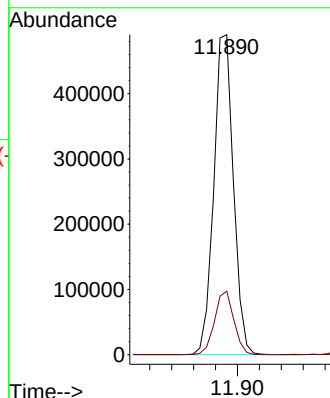
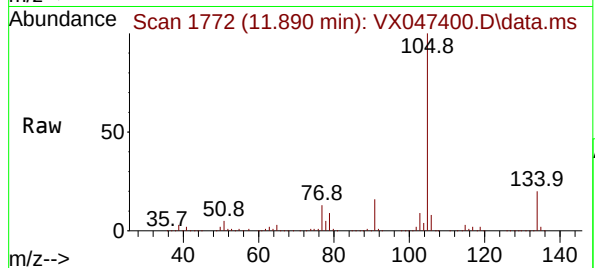
134 19.5 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#86

p-Isopropyltoluene

Concen: 45.458 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

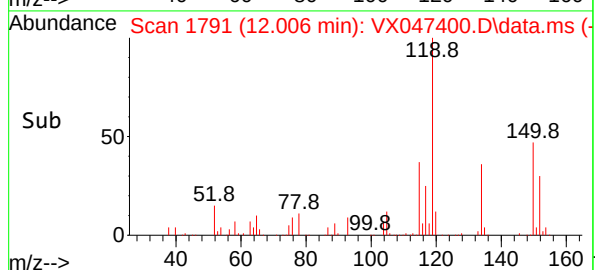
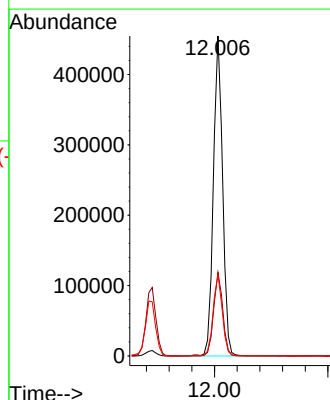
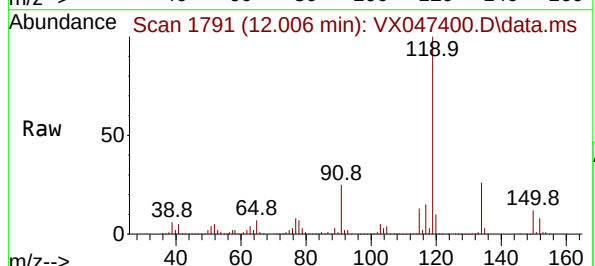
Tgt Ion:119 Resp: 514402

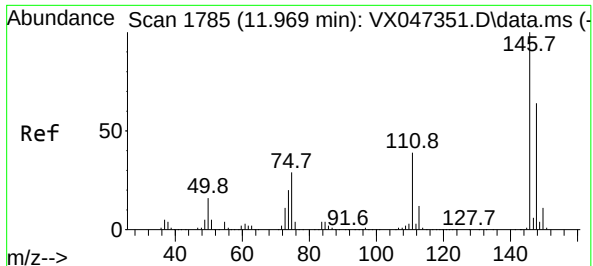
Ion Ratio Lower Upper

119 100

134 25.9 12.8 38.4

91 25.3 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 46.630 ug/l

RT: 11.963 min Scan# 1784

Delta R.T. -0.006 min

Lab File: VX047400.D

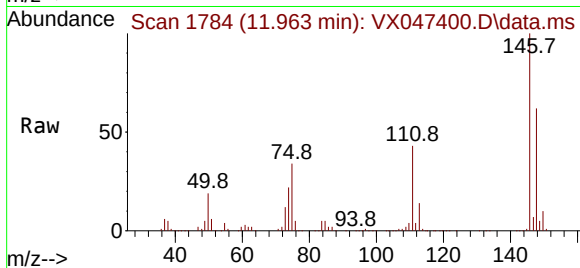
Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050



Tgt Ion:146 Resp: 285904

Ion Ratio Lower Upper

146 100

111 42.3 20.6 61.8

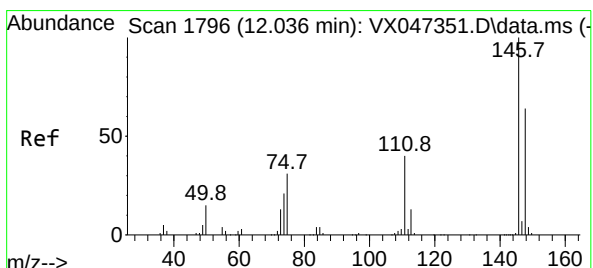
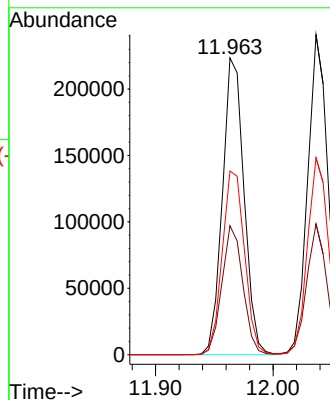
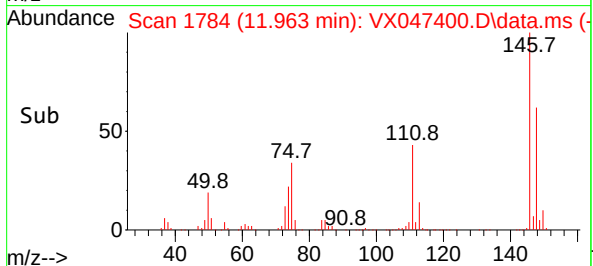
148 64.0 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#88

1,4-Dichlorobenzene

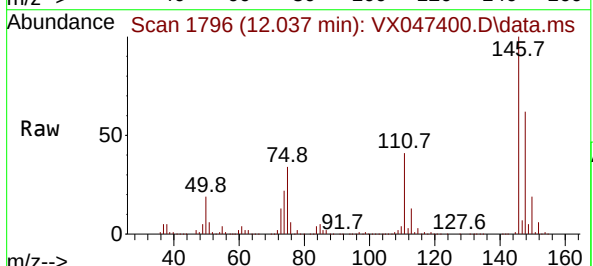
Concen: 46.253 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37



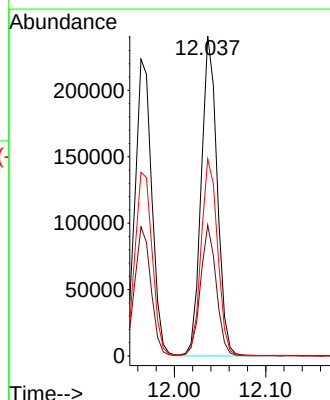
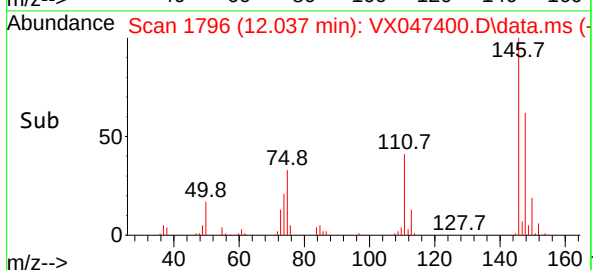
Tgt Ion:146 Resp: 291680

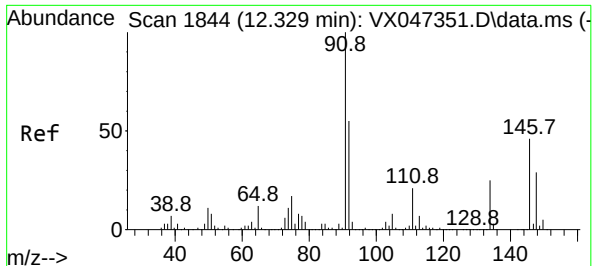
Ion Ratio Lower Upper

146 100

111 40.6 20.4 61.2

148 63.4 31.7 95.1





#89

n-Butylbenzene

Concen: 45.672 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047400.D

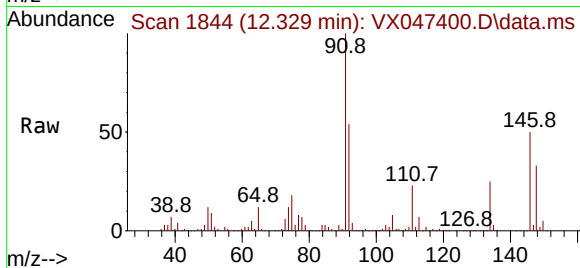
Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050



Tgt Ion: 91 Resp: 48070

Ion Ratio Lower Upper

91 100

92 53.9 27.2 81.5

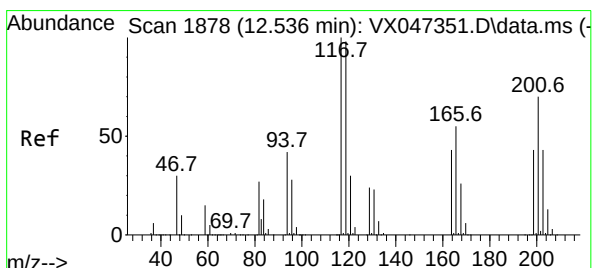
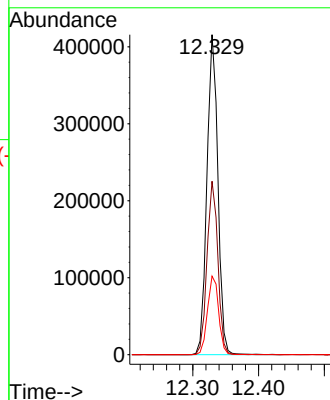
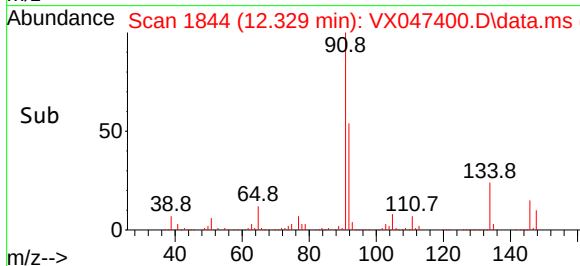
134 25.2 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#90

Hexachloroethane

Concen: 46.201 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047400.D

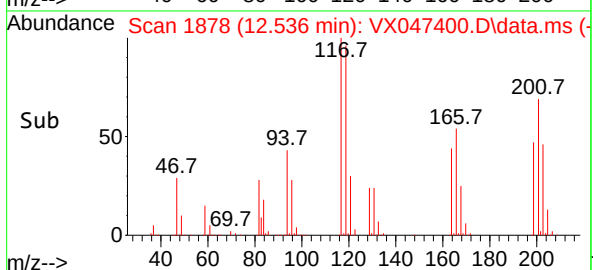
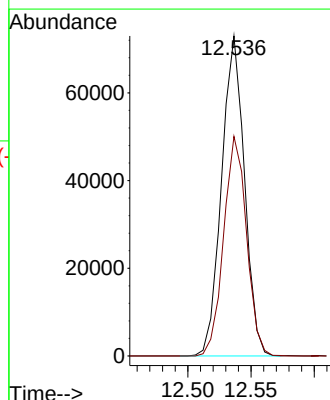
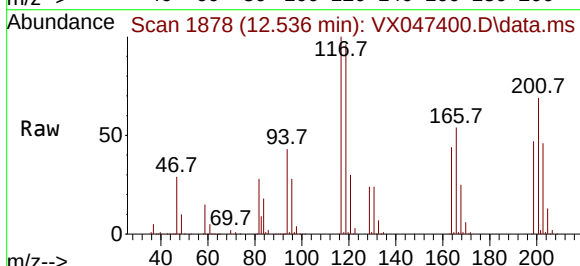
Acq: 19 Aug 2025 09:37

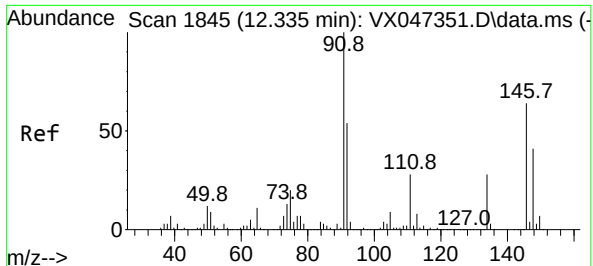
Tgt Ion:117 Resp: 91716

Ion Ratio Lower Upper

117 100

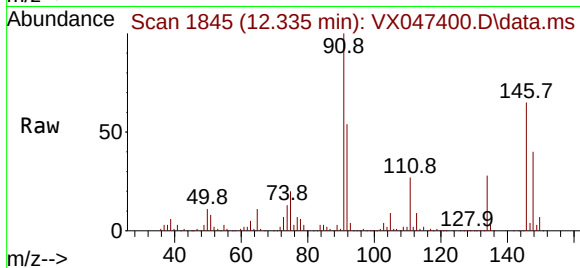
201 68.6 35.1 105.3





#91
1,2-Dichlorobenzene
Concen: 47.938 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

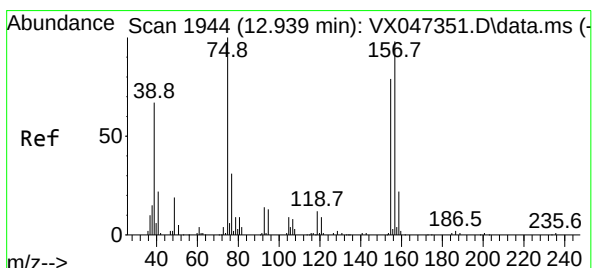
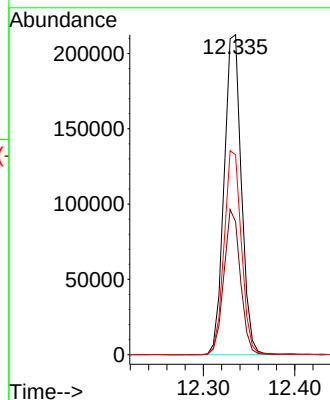
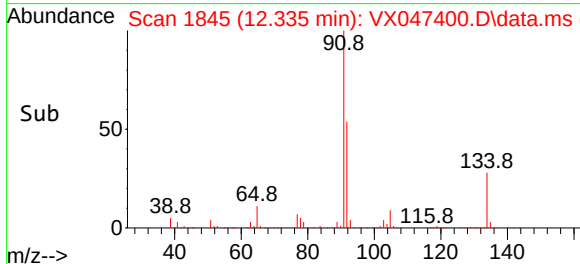
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 27898
Ion Ratio Lower Upper
146 100
111 43.4 22.1 66.1
148 63.9 31.9 95.5

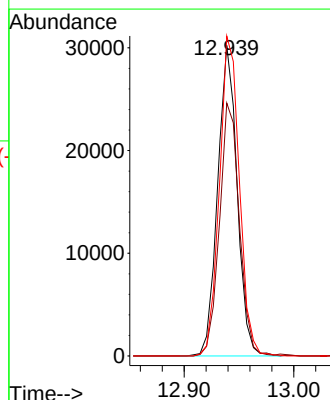
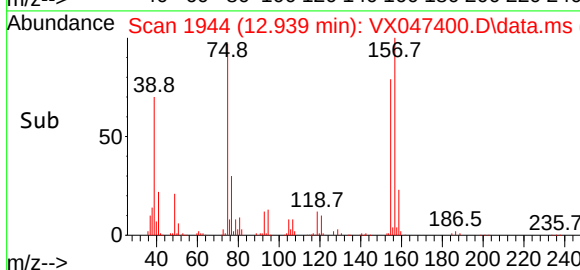
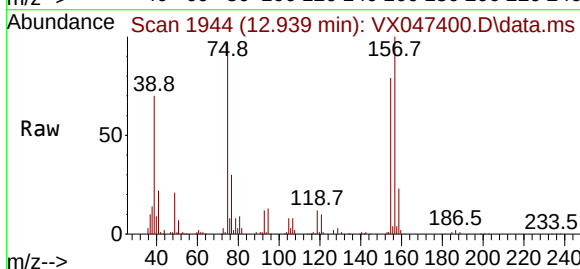
Manual Integrations
APPROVED

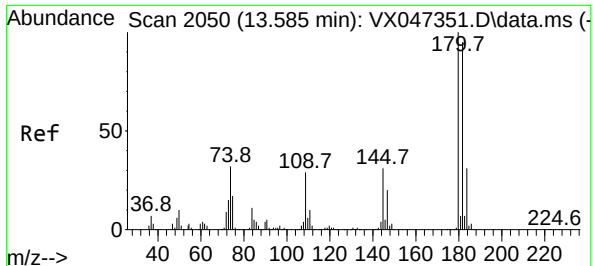
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.925 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047400.D
Acq: 19 Aug 2025 09:37

Tgt Ion: 75 Resp: 37258
Ion Ratio Lower Upper
75 100
155 83.1 41.3 123.7
157 105.7 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 48.028 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 187378

Ion Ratio Lower Upper

180 100

182 95.0 48.1 144.4

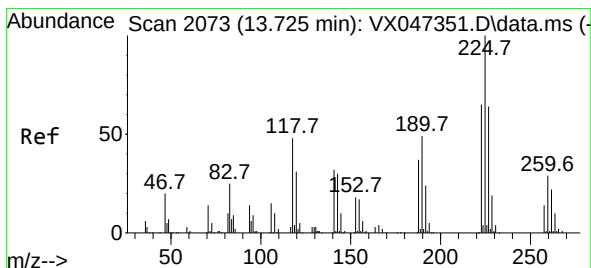
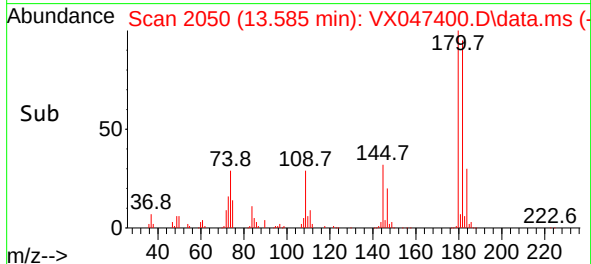
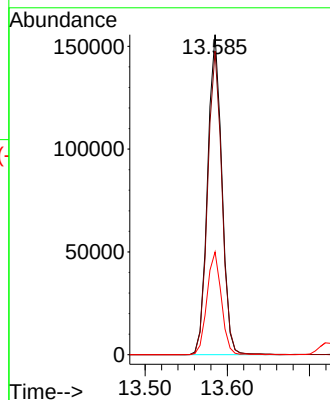
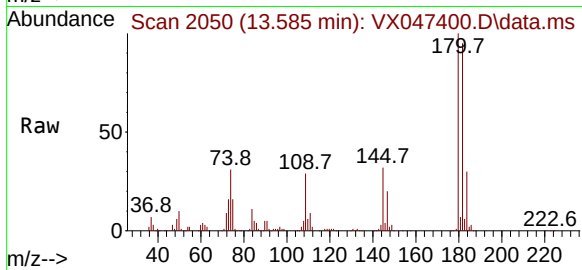
145 32.4 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#94

Hexachlorobutadiene

Concen: 45.633 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

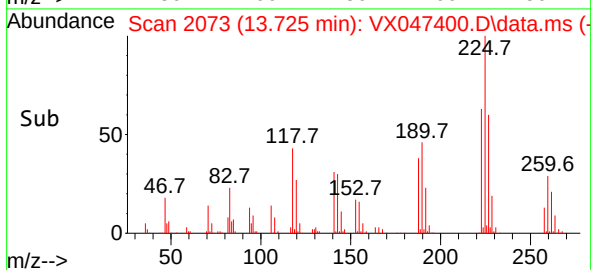
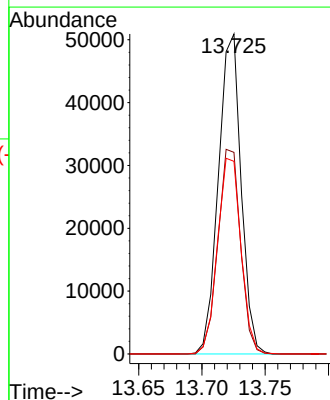
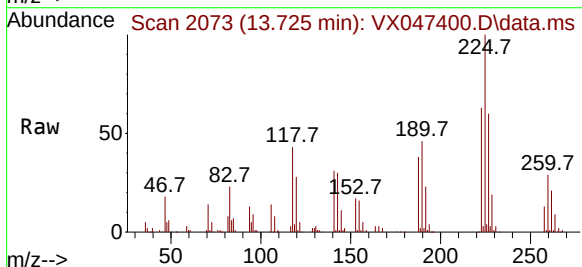
Tgt Ion:225 Resp: 63372

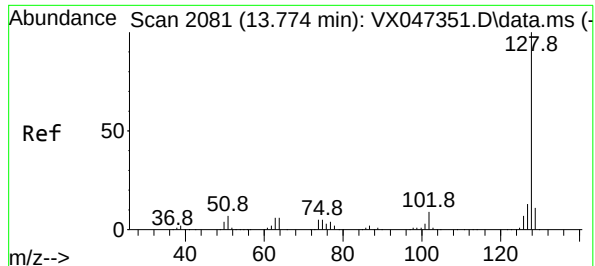
Ion Ratio Lower Upper

225 100

223 63.8 32.2 96.6

227 63.3 31.6 95.0





#95

Naphthalene

Concen: 51.217 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 57103

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

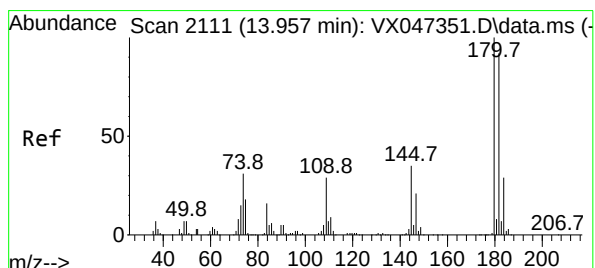
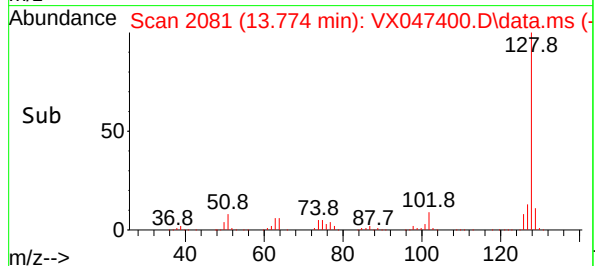
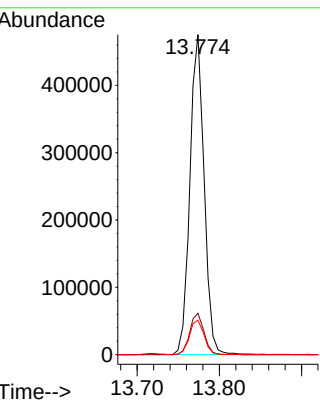
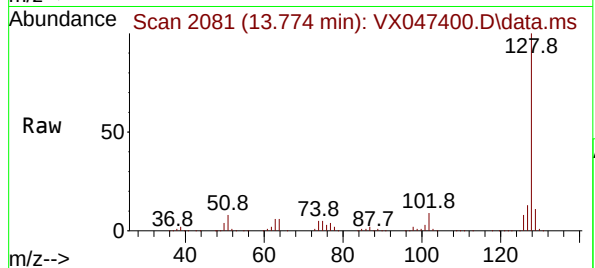
129 11.2 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#96

1,2,3-Trichlorobenzene

Concen: 49.242 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX047400.D

Acq: 19 Aug 2025 09:37

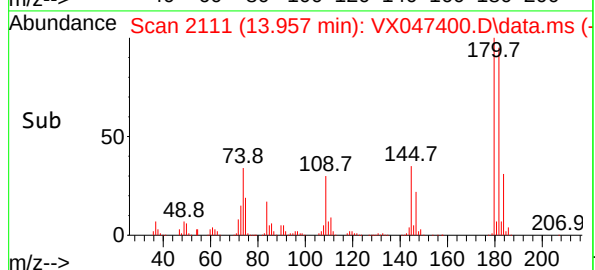
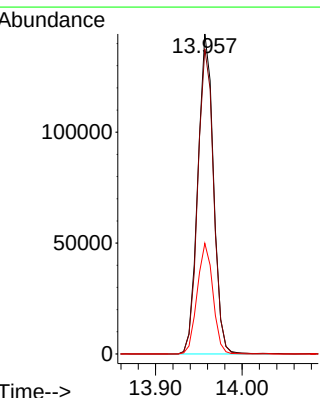
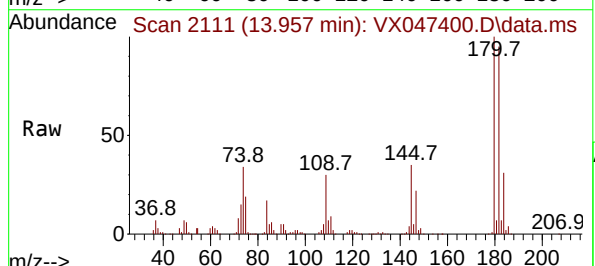
Tgt Ion:180 Resp: 181090

Ion Ratio Lower Upper

180 100

182 96.4 48.0 144.2

145 34.6 17.4 52.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	85	0.00
2 T	Dichlorodifluoromethane	0.637	0.584	8.3	68	0.00
3 P	Chloromethane	0.573	0.568	0.9	78	0.00
4 C	Vinyl Chloride	0.720	0.658	8.6#	70	0.00
5 T	Bromomethane	0.291	0.267	8.2	68	0.00
6 T	Chloroethane	0.440	0.408	7.3	75	0.00
7 T	Trichlorofluoromethane	1.065	0.957	10.1	69	0.00
8 T	Diethyl Ether	0.375	0.413	-10.1	85	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.618	0.582	5.8	71	0.00
10 T	Methyl Iodide	1.058	0.893	15.6	66	0.00
11 T	Tert butyl alcohol	0.061	0.072	-18.0	90	0.00
12 CM	1,1-Dichloroethene	0.630	0.596	5.4#	73	0.00
13 T	Acrolein	0.129	0.145	-12.4	94	0.00
14 T	Allyl chloride	1.093	1.106	-1.2	78	0.00
15 T	Acrylonitrile	0.294	0.336	-14.3	84	0.00
16 T	Acetone	0.263	0.281	-6.8	86	0.00
17 T	Carbon Disulfide	1.900	1.705	10.3	73	0.00
18 T	Methyl Acetate	0.682	0.775	-13.6	86	0.00
19 T	Methyl tert-butyl Ether	1.915	2.133	-11.4	84	0.00
20 T	Methylene Chloride	0.697	0.733	-5.2	83	0.00
21 T	trans-1,2-Dichloroethene	0.668	0.656	1.8	77	0.00
22 T	Diisopropyl ether	2.161	2.385	-10.4	83	0.00
23 T	Vinyl Acetate	1.772	2.011	-13.5	84	0.00
24 P	1,1-Dichloroethane	1.222	1.251	-2.4	79	0.00
25 T	2-Butanone	0.344	0.391	-13.7	86	0.00
26 T	2,2-Dichloropropane	0.922	0.908	1.5	76	-0.01
27 T	cis-1,2-Dichloroethene	0.778	0.806	-3.6	81	0.00
28 T	Bromochloromethane	0.508	0.619	-21.9	98	0.00
29 T	Tetrahydrofuran	0.223	0.250	-12.1	87	0.00
30 C	Chloroform	1.247	1.304	-4.6#	81	0.00
31 T	Cyclohexane	1.126	0.994	11.7	70	0.00
32 T	1,1,1-Trichloroethane	1.073	1.041	3.0	74	0.00
33 S	1,2-Dichloroethane-d4	0.700	0.805	-15.0	98	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
35 S	Dibromofluoromethane	0.325	0.344	-5.8	93	0.00
36 T	1,1-Dichloropropene	0.512	0.461	10.0	74	0.00
37 T	Ethyl Acetate	0.532	0.537	-0.9	82	0.00
38 T	Carbon Tetrachloride	0.560	0.503	10.2	75	0.00
39 T	Methylcyclohexane	0.639	0.540	15.5	70	0.00
40 TM	Benzene	1.533	1.493	2.6	79	0.00
41 T	Methacrylonitrile	0.224	0.229	-2.2	80	0.00
42 TM	1,2-Dichloroethane	0.543	0.561	-3.3	84	0.00
43 T	Isopropyl Acetate	0.764	0.817	-6.9	85	0.00
44 TM	Trichloroethene	0.393	0.360	8.4	75	0.00
45 C	1,2-Dichloropropane	0.384	0.390	-1.6#	84	0.00
46 T	Dibromomethane	0.279	0.284	-1.8	85	0.00
47 T	Bromodichloromethane	0.578	0.589	-1.9	84	0.00
48 T	Methyl methacrylate	0.397	0.422	-6.3	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	0.004	0.004	0.0	90	0.00
50 S	Toluene-d8	1.160	1.173	-1.1	90	0.00
51 T	4-Methyl-2-Pentanone	0.440	0.479	-8.9	85	0.00
52 CM	Toluene	0.947	0.914	3.5#	78	0.00
53 T	t-1,3-Dichloropropene	0.505	0.553	-9.5	85	0.00
54 T	cis-1,3-Dichloropropene	0.571	0.604	-5.8	85	0.00
55 T	1,1,2-Trichloroethane	0.360	0.376	-4.4	86	0.00
56 T	Ethyl methacrylate	0.530	0.580	-9.4	85	0.00
57 T	1,3-Dichloropropane	0.613	0.641	-4.6	86	0.00
58 T	2-Chloroethyl Vinyl ether	0.211	0.270	-28.0#	89	0.00
59 T	2-Hexanone	0.304	0.329	-8.2	85	0.00
60 T	Dibromochloromethane	0.428	0.444	-3.7	86	0.00
61 T	1,2-Dibromoethane	0.371	0.387	-4.3	85	0.00
62 S	4-Bromofluorobenzene	0.428	0.455	-6.3	96	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64 T	Tetrachloroethene	0.362	0.319	11.9	74	0.00
65 PM	Chlorobenzene	1.188	1.128	5.1	81	0.00
66 T	1,1,1,2-Tetrachloroethane	0.402	0.398	1.0	83	0.00
67 C	Ethyl Benzene	2.045	1.923	6.0#	78	0.00
68 T	m/p-Xylenes	0.763	0.726	4.8	78	0.00
69 T	o-Xylene	0.734	0.698	4.9	79	0.00
70 T	Styrene	1.240	1.250	-0.8	82	0.00
71 P	Bromoform	0.302	0.316	-4.6	87	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73 T	Isopropylbenzene	3.913	3.540	9.5	76	0.00
74 T	N-amyl acetate	1.486	1.571	-5.7	86	0.00
75 P	1,1,2,2-Tetrachloroethane	1.149	1.161	-1.0	87	0.00
76 T	1,2,3-Trichloropropane	0.917	0.905	1.3	85	0.00
77 T	Bromobenzene	0.955	0.936	2.0	84	0.00
78 T	n-propylbenzene	4.673	4.273	8.6	78	0.00
79 T	2-Chlorotoluene	2.825	2.611	7.6	80	0.00
80 T	1,3,5-Trimethylbenzene	3.219	3.012	6.4	80	0.00
81 T	trans-1,4-Dichloro-2-butene	0.178	0.182	-2.2	87	0.00
82 T	4-Chlorotoluene	3.330	3.105	6.8	81	0.00
83 T	tert-Butylbenzene	3.212	3.024	5.9	79	0.00
84 T	1,2,4-Trimethylbenzene	3.219	3.060	4.9	79	0.00
85 T	sec-Butylbenzene	3.981	3.627	8.9	78	0.00
86 T	p-Isopropyltoluene	3.369	3.063	9.1	78	0.00
87 T	1,3-Dichlorobenzene	1.825	1.702	6.7	81	0.00
88 T	1,4-Dichlorobenzene	1.877	1.737	7.5	83	0.00
89 T	n-Butylbenzene	3.133	2.862	8.6	79	0.00
90 T	Hexachloroethane	0.591	0.546	7.6	79	0.00
91 T	1,2-Dichlorobenzene	1.733	1.661	4.2	84	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.222	0.222	0.0	85	0.00
93 T	1,2,4-Trichlorobenzene	1.161	1.116	3.9	86	0.00
94 T	Hexachlorobutadiene	0.413	0.377	8.7	88	0.00
95 T	Naphthalene	3.319	3.400	-2.4	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1.095	1.078	1.6	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	85	0.00
2 T	Dichlorodifluoromethane	50.000	45.787	8.4	68	0.00
3 P	Chloromethane	50.000	49.503	1.0	78	0.00
4 C	Vinyl Chloride	50.000	45.739	8.5#	70	0.00
5 T	Bromomethane	50.000	45.891	8.2	68	0.00
6 T	Chloroethane	50.000	46.281	7.4	75	0.00
7 T	Trichlorofluoromethane	50.000	44.970	10.1	69	0.00
8 T	Diethyl Ether	50.000	55.128	-10.3	85	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.108	5.8	71	0.00
10 T	Methyl Iodide	50.000	42.186	15.6	66	0.00
11 T	Tert butyl alcohol	250.000	295.893	-18.4	90	0.00
12 CM	1,1-Dichloroethene	50.000	47.332	5.3#	73	0.00
13 T	Acrolein	250.000	281.792	-12.7	94	0.00
14 T	Allyl chloride	50.000	50.583	-1.2	78	0.00
15 T	Acrylonitrile	250.000	285.809	-14.3	84	0.00
16 T	Acetone	250.000	267.129	-6.9	86	0.00
17 T	Carbon Disulfide	50.000	44.886	10.2	73	0.00
18 T	Methyl Acetate	50.000	56.879	-13.8	86	0.00
19 T	Methyl tert-butyl Ether	50.000	55.686	-11.4	84	0.00
20 T	Methylene Chloride	50.000	52.640	-5.3	83	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.068	1.9	77	0.00
22 T	Diisopropyl ether	50.000	55.175	-10.3	83	0.00
23 T	Vinyl Acetate	250.000	283.754	-13.5	84	0.00
24 P	1,1-Dichloroethane	50.000	51.211	-2.4	79	0.00
25 T	2-Butanone	250.000	283.674	-13.5	86	0.00
26 T	2,2-Dichloropropane	50.000	49.229	1.5	76	-0.01
27 T	cis-1,2-Dichloroethene	50.000	51.764	-3.5	81	0.00
28 T	Bromochloromethane	50.000	60.847	-21.7	98	0.00
29 T	Tetrahydrofuran	250.000	280.608	-12.2	87	0.00
30 C	Chloroform	50.000	52.310	-4.6#	81	0.00
31 T	Cyclohexane	50.000	44.146	11.7	70	0.00
32 T	1,1,1-Trichloroethane	50.000	48.495	3.0	74	0.00
33 S	1,2-Dichloroethane-d4	50.000	57.514	-15.0	98	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	90	0.00
35 S	Dibromofluoromethane	50.000	53.029	-6.1	93	0.00
36 T	1,1-Dichloropropene	50.000	44.977	10.0	74	0.00
37 T	Ethyl Acetate	50.000	50.486	-1.0	82	0.00
38 T	Carbon Tetrachloride	50.000	44.963	10.1	75	0.00
39 T	Methylcyclohexane	50.000	42.274	15.5	70	0.00
40 TM	Benzene	50.000	48.701	2.6	79	0.00
41 T	Methacrylonitrile	50.000	51.049	-2.1	80	0.00
42 TM	1,2-Dichloroethane	50.000	51.678	-3.4	84	0.00
43 T	Isopropyl Acetate	50.000	53.497	-7.0	85	0.00
44 TM	Trichloroethene	50.000	45.821	8.4	75	0.00
45 C	1,2-Dichloropropane	50.000	50.806	-1.6#	84	0.00
46 T	Dibromomethane	50.000	50.893	-1.8	85	0.00
47 T	Bromodichloromethane	50.000	50.965	-1.9	84	0.00
48 T	Methyl methacrylate	50.000	53.246	-6.5	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	1160.527	-16.1	90	0.00
50 S	Toluene-d8	50.000	50.584	-1.2	90	0.00
51 T	4-Methyl-2-Pentanone	250.000	272.635	-9.1	85	0.00
52 CM	Toluene	50.000	48.228	3.5#	78	0.00
53 T	t-1,3-Dichloropropene	50.000	54.796	-9.6	85	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.876	-5.8	85	0.00
55 T	1,1,2-Trichloroethane	50.000	52.264	-4.5	86	0.00
56 T	Ethyl methacrylate	50.000	54.700	-9.4	85	0.00
57 T	1,3-Dichloropropane	50.000	52.271	-4.5	86	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	266.315	-6.5	89	0.00
59 T	2-Hexanone	250.000	270.676	-8.3	85	0.00
60 T	Dibromochloromethane	50.000	51.968	-3.9	86	0.00
61 T	1,2-Dibromoethane	50.000	52.124	-4.2	85	0.00
62 S	4-Bromofluorobenzene	50.000	53.183	-6.4	96	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64 T	Tetrachloroethene	50.000	44.081	11.8	74	0.00
65 PM	Chlorobenzene	50.000	47.476	5.0	81	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.556	0.9	83	0.00
67 C	Ethyl Benzene	50.000	47.006	6.0#	78	0.00
68 T	m/p-Xylenes	100.000	95.157	4.8	78	0.00
69 T	o-Xylene	50.000	47.570	4.9	79	0.00
70 T	Styrene	50.000	50.426	-0.9	82	0.00
71 P	Bromoform	50.000	52.336	-4.7	87	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73 T	Isopropylbenzene	50.000	45.232	9.5	76	0.00
74 T	N-amyl acetate	50.000	52.861	-5.7	86	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.522	-1.0	87	0.00
76 T	1,2,3-Trichloropropane	50.000	49.366	1.3	85	0.00
77 T	Bromobenzene	50.000	48.962	2.1	84	0.00
78 T	n-propylbenzene	50.000	45.715	8.6	78	0.00
79 T	2-Chlorotoluene	50.000	46.220	7.6	80	0.00
80 T	1,3,5-Trimethylbenzene	50.000	46.784	6.4	80	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	44.250	11.5	87	0.00
82 T	4-Chlorotoluene	50.000	46.620	6.8	81	0.00
83 T	tert-Butylbenzene	50.000	47.081	5.8	79	0.00
84 T	1,2,4-Trimethylbenzene	50.000	47.529	4.9	79	0.00
85 T	sec-Butylbenzene	50.000	45.552	8.9	78	0.00
86 T	p-Isopropyltoluene	50.000	45.458	9.1	78	0.00
87 T	1,3-Dichlorobenzene	50.000	46.630	6.7	81	0.00
88 T	1,4-Dichlorobenzene	50.000	46.253	7.5	83	0.00
89 T	n-Butylbenzene	50.000	45.672	8.7	79	0.00
90 T	Hexachloroethane	50.000	46.201	7.6	79	0.00
91 T	1,2-Dichlorobenzene	50.000	47.938	4.1	84	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.925	0.2	85	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.028	3.9	86	0.00
94 T	Hexachlorobutadiene	50.000	45.633	8.7	88	0.00
95 T	Naphthalene	50.000	51.217	-2.4	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047400.D
Acq On : 19 Aug 2025 09:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 19 10:00:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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	49.242	1.5	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

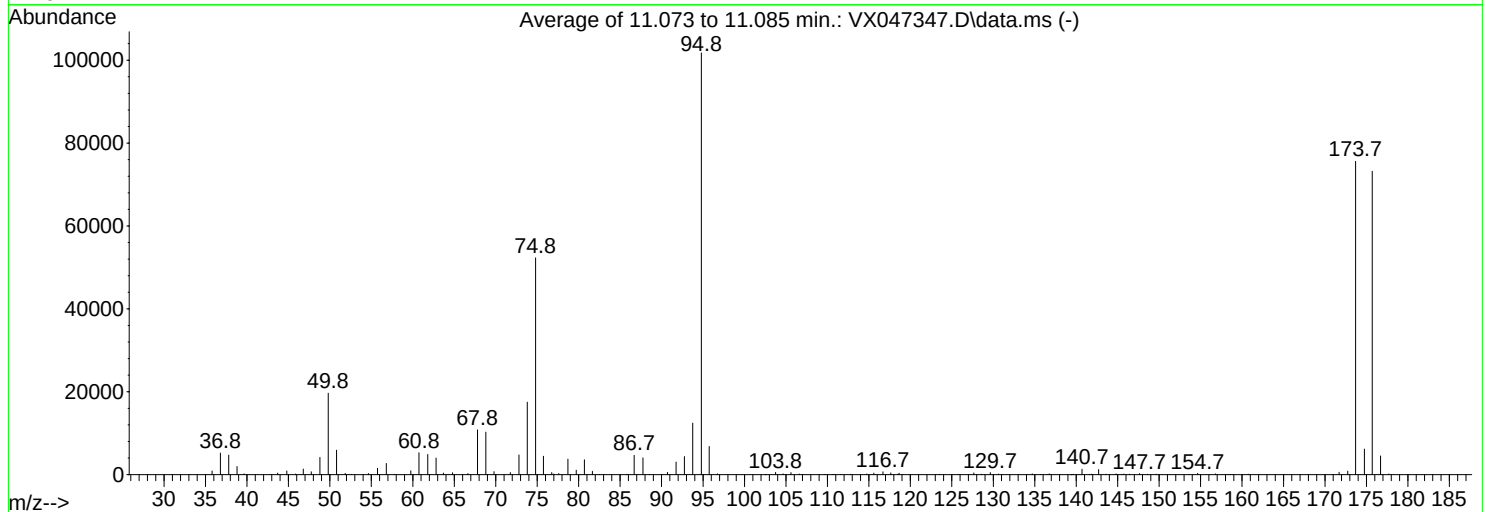
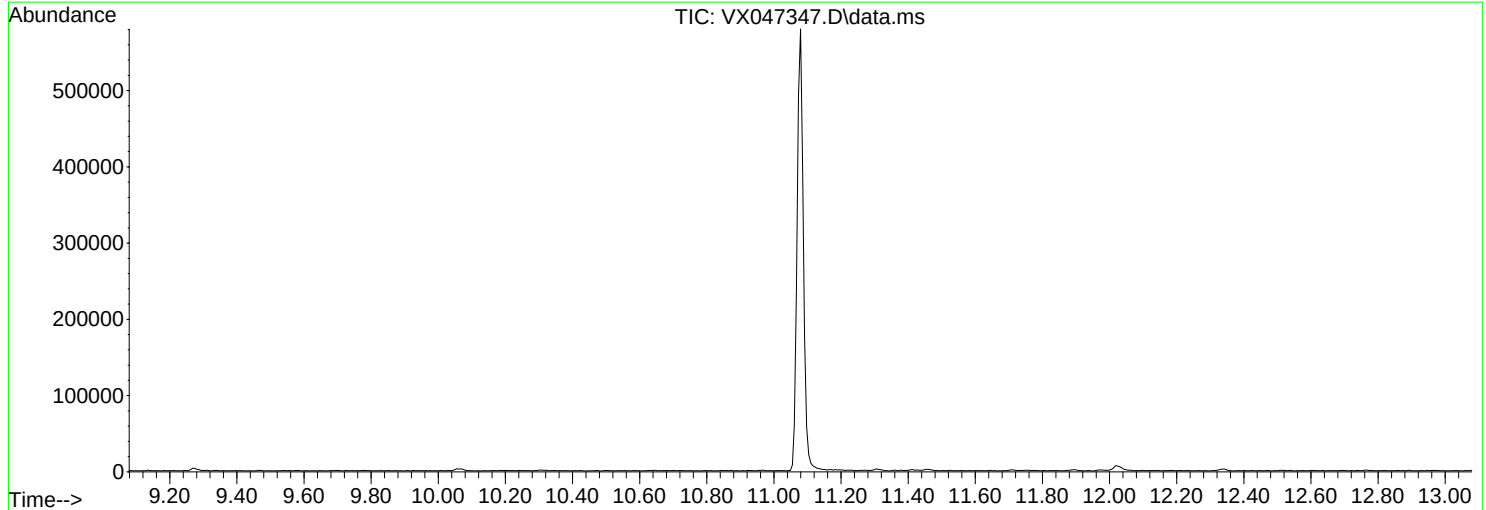
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- 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
Data File : VX047347.D
Acq On : 15 Aug 2025 08:28
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\82X081525W.M
Title : SW846 8260
Last Update : Mon Aug 18 04:18:28 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

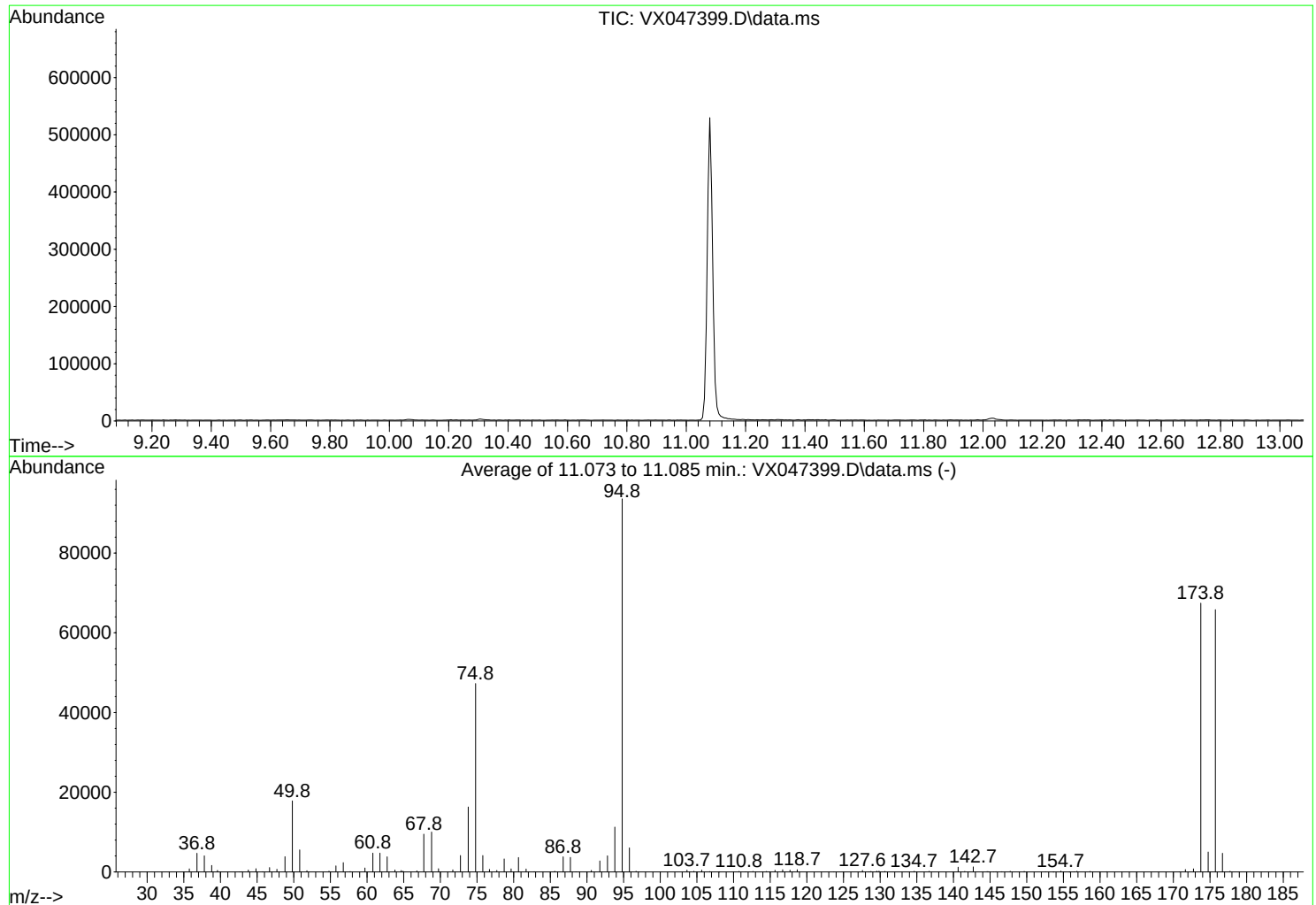
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.3	19650	PASS
75	95	30	60	51.4	52320	PASS
95	95	100	100	100.0	101773	PASS
96	95	5	9	6.7	6795	PASS
173	174	0.00	2	1.1	867	PASS
174	95	50	100	74.3	75603	PASS
175	174	5	9	8.2	6186	PASS
176	174	95	101	96.8	73213	PASS
177	176	5	9	6.2	4510	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047399.D
Acq On : 19 Aug 2025 08:38
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Title : SW846 8260
Last Update : Mon Aug 18 04:18:28 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	19.0	17812	PASS
75	95	30	60	50.5	47256	PASS
95	95	100	100	100.0	93616	PASS
96	95	5	9	6.5	6053	PASS
173	174	0.00	2	1.2	803	PASS
174	95	50	100	72.1	67451	PASS
175	174	5	9	7.4	5006	PASS
176	174	95	101	97.6	65808	PASS
177	176	5	9	7.1	4681	PASS

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger Site Princeton NJ 2025
 Client Sample ID: VX0819WBL01
 Lab Sample ID: VX0819WBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q2841
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	08/19/25 10:55	VX081925
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	08/19/25 10:55	VX081925
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	08/19/25 10:55	VX081925
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	08/19/25 10:55	VX081925
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	08/19/25 10:55	VX081925
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	08/19/25 10:55	VX081925
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	08/19/25 10:55	VX081925
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	08/19/25 10:55	VX081925
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	08/19/25 10:55	VX081925
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	08/19/25 10:55	VX081925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	57.2			70 (74) - 130 (125)	114%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.9			70 (75) - 130 (124)	102%	SPK: 50		
2037-26-5	Toluene-d8	49.5			70 (86) - 130 (113)	99%	SPK: 50		
460-00-4	4-Bromofluorobenzene	56.1			70 (77) - 130 (121)	112%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	205000							
540-36-3	1,4-Difluorobenzene	411000							
3114-55-4	Chlorobenzene-d5	416000							
3855-82-1	1,4-Dichlorobenzene-d4	213000							

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\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Quant Time: Aug 19 11:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	204625	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	410508	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	416324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	212865	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	163941	57.246	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	114.500%
35) Dibromofluoromethane	5.391	113	135590	50.893	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.780%
50) Toluene-d8	8.647	98	471489	49.512	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.020%
62) 4-Bromofluorobenzene	11.079	95	197272	56.138	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	112.280%

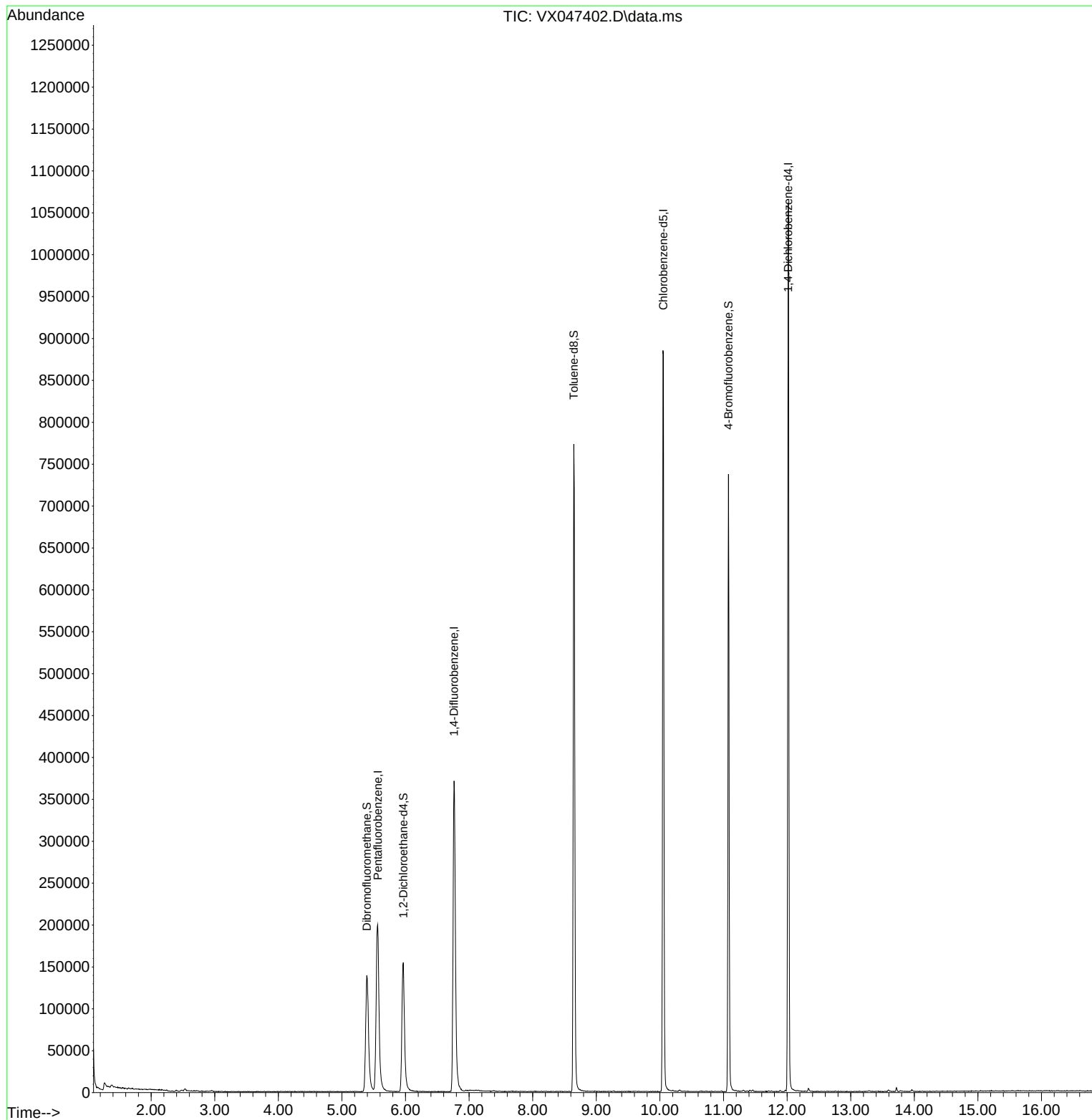
Target Compounds	Qvalue

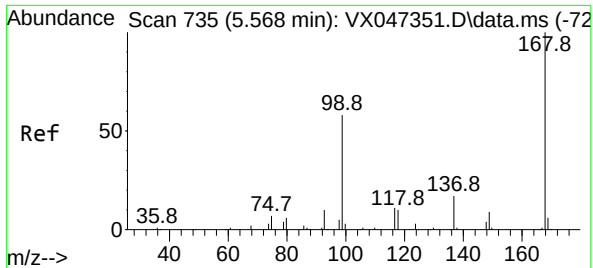
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

Quant Time: Aug 19 11:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 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: VX047402.D

Acq: 19 Aug 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

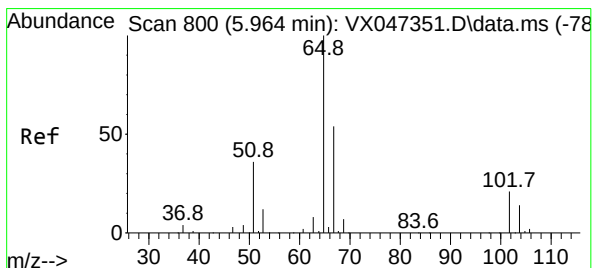
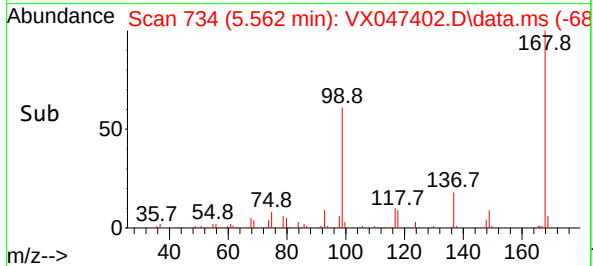
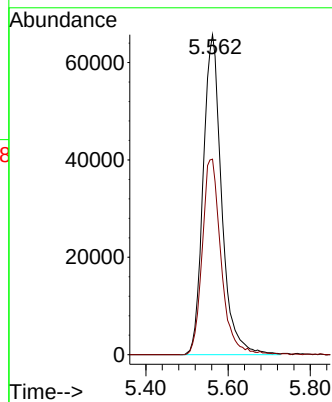
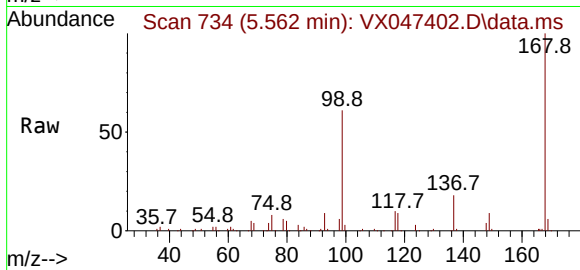
VX0819WBL01

Tgt Ion:168 Resp: 204625

Ion Ratio Lower Upper

168 100

99 61.1 47.9 71.9



#33

1,2-Dichloroethane-d4

Concen: 57.246 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047402.D

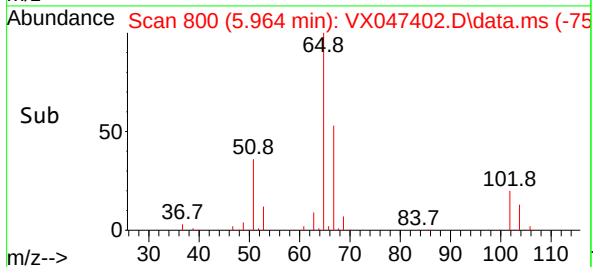
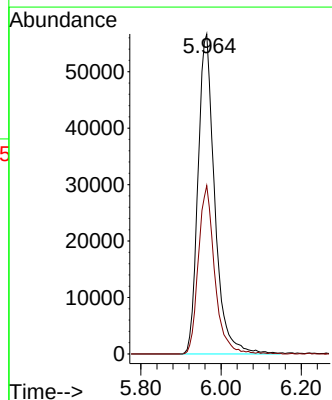
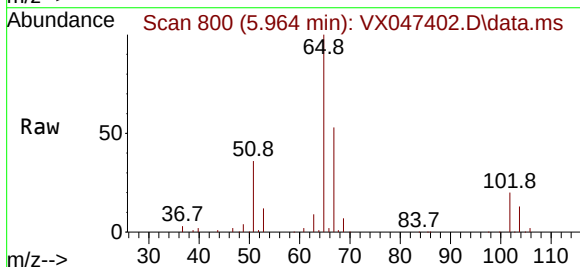
Acq: 19 Aug 2025 10:55

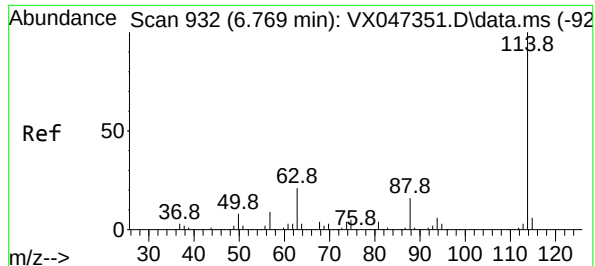
Tgt Ion: 65 Resp: 163941

Ion Ratio Lower Upper

65 100

67 51.3 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBL01

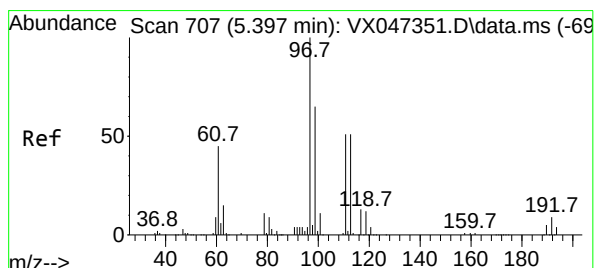
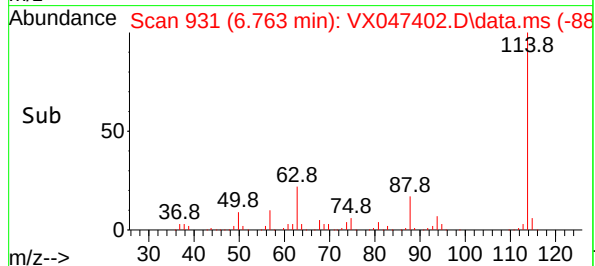
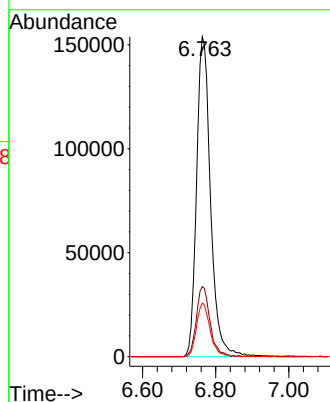
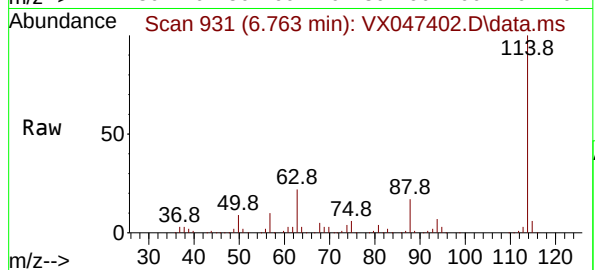
Tgt Ion:114 Resp: 410508

Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.4

88 16.7 0.0 33.0



#35

Dibromofluoromethane

Concen: 50.893 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

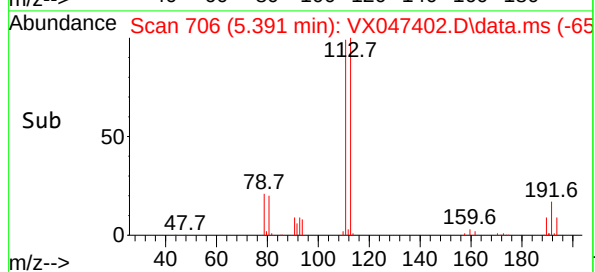
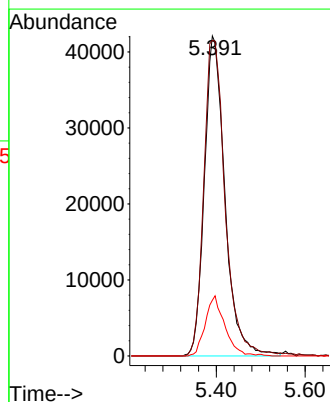
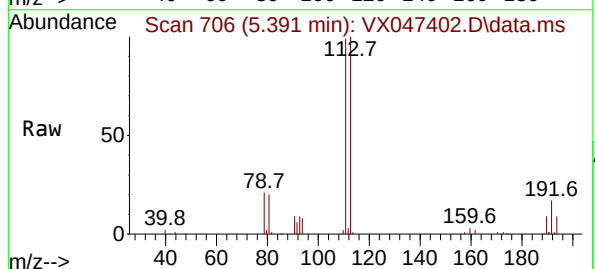
Tgt Ion:113 Resp: 135590

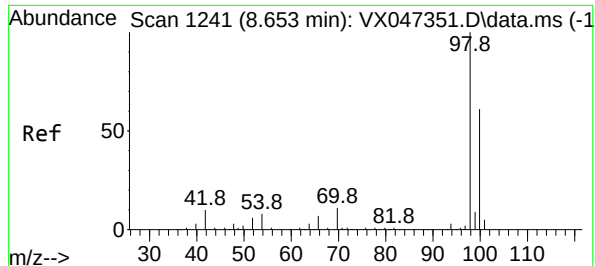
Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.2

192 17.8 14.1 21.1





#50

Toluene-d8

Concen: 49.512 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

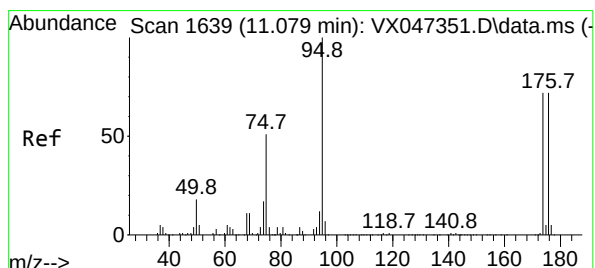
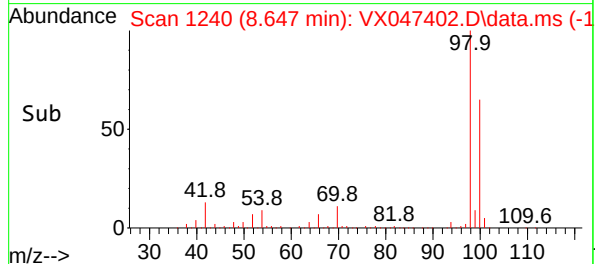
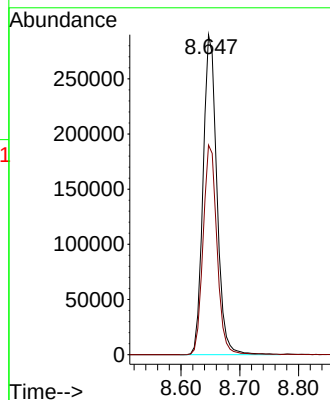
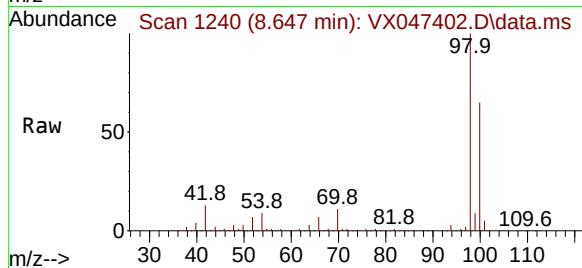
VX0819WBL01

Tgt Ion: 98 Resp: 471489

Ion Ratio Lower Upper

98 100

100 65.8 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 56.138 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

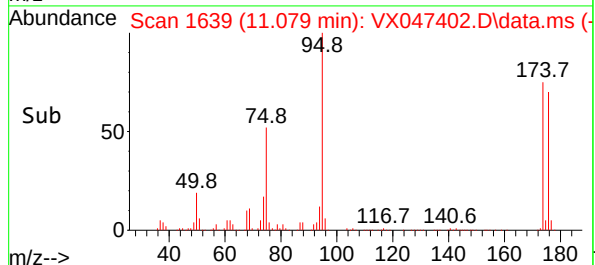
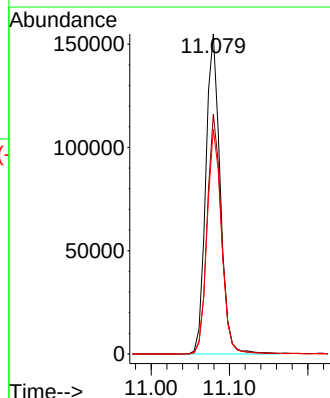
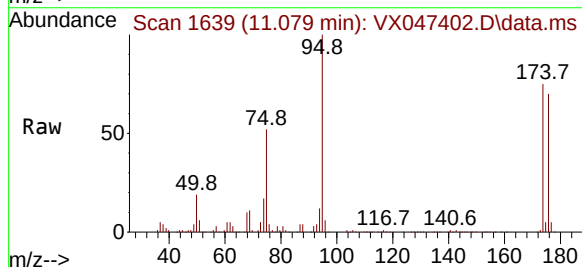
Tgt Ion: 95 Resp: 197272

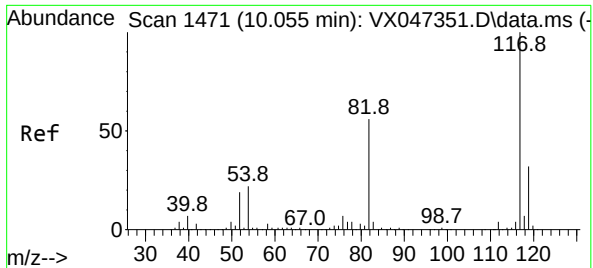
Ion Ratio Lower Upper

95 100

174 74.0 0.0 148.0

176 70.8 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBL01

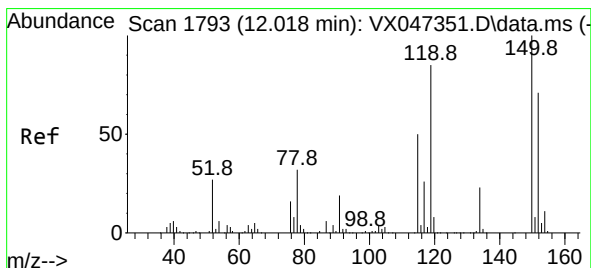
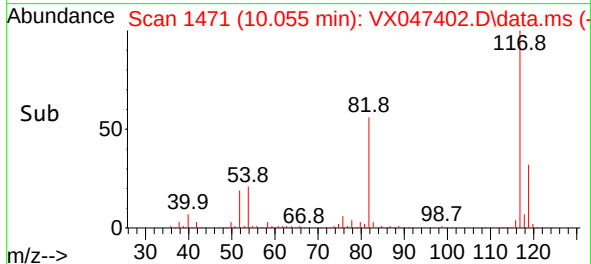
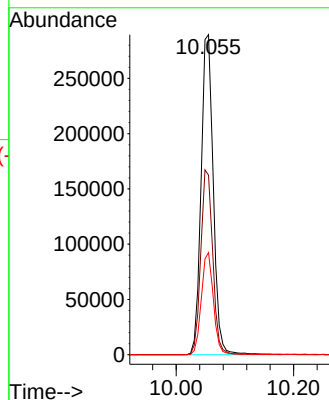
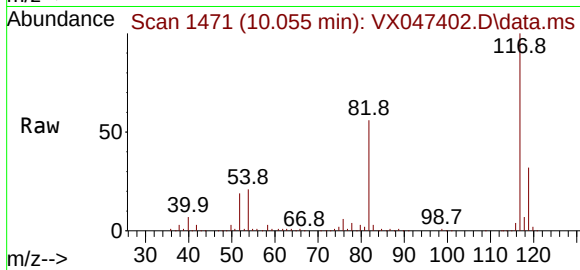
Tgt Ion:117 Resp: 416324

Ion Ratio Lower Upper

117 100

82 56.1 45.0 67.4

119 31.9 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

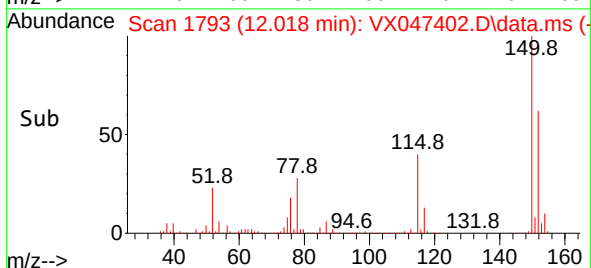
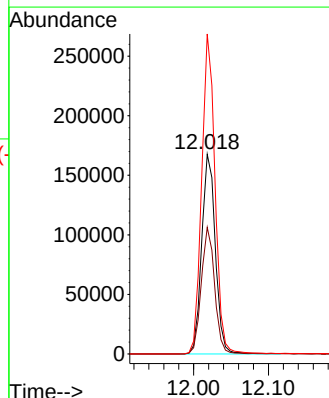
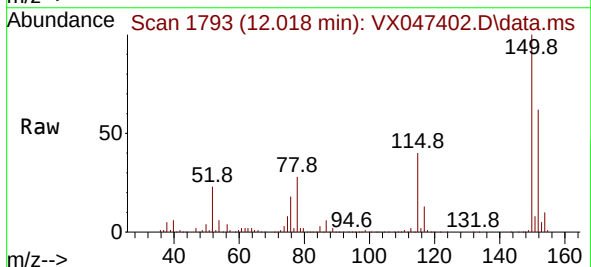
Tgt Ion:152 Resp: 212865

Ion Ratio Lower Upper

152 100

115 61.9 44.6 133.8

150 156.7 0.0 349.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger Site Princeton NJ 2025
Client Sample ID: VX0819WBS01
Lab Sample ID: VX0819WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q2841
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	16.6		1	0.26	1.00	ug/L	08/19/25 11:55	VX081925
75-35-4	1,1-Dichloroethene	17.3		1	0.23	1.00	ug/L	08/19/25 11:55	VX081925
75-34-3	1,1-Dichloroethane	18.6		1	0.23	1.00	ug/L	08/19/25 11:55	VX081925
156-59-2	cis-1,2-Dichloroethene	18.5		1	0.19	1.00	ug/L	08/19/25 11:55	VX081925
71-55-6	1,1,1-Trichloroethane	17.9		1	0.20	1.00	ug/L	08/19/25 11:55	VX081925
71-43-2	Benzene	18.0		1	0.15	1.00	ug/L	08/19/25 11:55	VX081925
107-06-2	1,2-Dichloroethane	18.7		1	0.22	1.00	ug/L	08/19/25 11:55	VX081925
79-01-6	Trichloroethene	17.2		1	0.090	1.00	ug/L	08/19/25 11:55	VX081925
79-00-5	1,1,2-Trichloroethane	18.8		1	0.21	1.00	ug/L	08/19/25 11:55	VX081925
127-18-4	Tetrachloroethene	16.7		1	0.23	1.00	ug/L	08/19/25 11:55	VX081925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.3			70 (74) - 130 (125)	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.1			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	50.6			70 (86) - 130 (113)	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.8			70 (77) - 130 (121)	106%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	226000							
540-36-3	1,4-Difluorobenzene	401000							
3114-55-4	Chlorobenzene-d5	371000							
3855-82-1	1,4-Dichlorobenzene-d4	190000							

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\VX081925\
 Data File : VX047403.D
 Acq On : 19 Aug 2025 11:55
 Operator : JC/MD
 Sample : VX0819WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0819WBS01

Quant Time: Aug 19 12:13:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	225610	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	400778	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	370967	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	189862	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.958	65	171357	54.270	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 108.540%	
35) Dibromofluoromethane	5.391	113	135576	52.123	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.240%	
50) Toluene-d8	8.647	98	470012	50.555	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 101.120%	
62) 4-Bromofluorobenzene	11.079	95	181013	52.762	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 105.520%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	47669	16.575	ug/l	100
3) Chloromethane	1.313	50	44596	17.237	ug/l	98
4) Vinyl Chloride	1.392	62	53957	16.616	ug/l	98
5) Bromomethane	1.630	94	23833	18.170	ug/l	82
6) Chloroethane	1.709	64	34734	17.482	ug/l	98
7) Trichlorofluoromethane	1.904	101	78843	16.414	ug/l	94
8) Diethyl Ether	2.142	74	31787	18.794	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	46101	16.545	ug/l	99
10) Methyl Iodide	2.471	142	67548	14.146	ug/l	98
11) Tert butyl alcohol	2.959	59	27543	100.272	ug/l	99
12) 1,1-Dichloroethene	2.337	96	49153	17.304	ug/l	97
13) Acrolein	2.252	56	49678	85.675	ug/l	98
14) Allyl chloride	2.678	41	88890	18.017	ug/l	98
15) Acrylonitrile	3.081	53	129576	97.623	ug/l	99
16) Acetone	2.386	43	134660	113.461	ug/l	99
17) Carbon Disulfide	2.526	76	140642	16.407	ug/l	100
18) Methyl Acetate	2.715	43	59381	19.307	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	165987	19.208	ug/l	99
20) Methylene Chloride	2.800	84	59628	18.973	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	53480	17.738	ug/l	95
22) Diisopropyl ether	3.770	45	188286	19.306	ug/l	94
23) Vinyl Acetate	3.733	43	775713	97.042	ug/l	98
24) 1,1-Dichloroethane	3.623	63	102305	18.559	ug/l	97
25) 2-Butanone	4.562	43	164408	105.771	ug/l	98
26) 2,2-Dichloropropane	4.483	77	76816	18.463	ug/l	98
27) cis-1,2-Dichloroethene	4.501	96	65115	18.543	ug/l	99
28) Bromochloromethane	4.904	49	52508	22.891	ug/l	96
29) Tetrahydrofuran	5.019	42	97079	96.629	ug/l	96
30) Chloroform	5.099	83	106302	18.896	ug/l	97
31) Cyclohexane	5.477	56	84972	16.722	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	86840	17.934	ug/l	98
36) 1,1-Dichloropropene	5.702	75	69481	16.922	ug/l	99
37) Ethyl Acetate	4.715	43	70075	16.439	ug/l	96
38) Carbon Tetrachloride	5.684	117	75969	16.931	ug/l	98
39) Methylcyclohexane	7.385	83	77886	15.207	ug/l	97
40) Benzene	6.044	78	220693	17.957	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047403.D
 Acq On : 19 Aug 2025 11:55
 Operator : JC/MD
 Sample : VX0819WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0819WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 19 12:13:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	35045	19.496	ug/l	92
42) 1,2-Dichloroethane	6.092	62	81344	18.686	ug/l	99
43) Isopropyl Acetate	6.348	43	110451	18.037	ug/l	99
44) Trichloroethene	7.129	130	54266	17.244	ug/l	99
45) 1,2-Dichloropropane	7.434	63	56455	18.336	ug/l	98
46) Dibromomethane	7.580	93	41245	18.452	ug/l	98
47) Bromodichloromethane	7.824	83	84911	18.324	ug/l	95
48) Methyl methacrylate	7.696	41	58149	18.294	ug/l	98
49) 1,4-Dioxane	7.690	88	11911	385.469	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	337359	95.733	ug/l	98
52) Toluene	8.720	92	137617	18.121	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	75672	18.711	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	85316	18.637	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	54306	18.834	ug/l	100
56) Ethyl methacrylate	9.116	69	76225	17.930	ug/l	96
57) 1,3-Dichloropropane	9.305	76	94506	19.235	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	194420	100.929	ug/l	98
59) 2-Hexanone	9.433	43	237159	97.292	ug/l	100
60) Dibromochloromethane	9.519	129	64471	18.814	ug/l	100
61) 1,2-Dibromoethane	9.610	107	55618	18.705	ug/l	99
64) Tetrachloroethene	9.269	164	44832	16.708	ug/l	98
65) Chlorobenzene	10.079	112	155025	17.585	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	53110	17.822	ug/l	99
67) Ethyl Benzene	10.189	91	259370	17.094	ug/l	99
68) m/p-Xylenes	10.299	106	198745	35.129	ug/l	100
69) o-Xylene	10.640	106	95777	17.591	ug/l	99
70) Styrene	10.653	104	168799	18.349	ug/l	99
71) Bromoform	10.799	173	40177	17.946	ug/l #	99
73) Isopropylbenzene	10.957	105	247370	16.649	ug/l	100
74) N-amyl acetate	10.842	43	100954	17.893	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	78682	18.037	ug/l	97
76) 1,2,3-Trichloropropane	11.238	75	57347m	16.468	ug/l	
77) Bromobenzene	11.195	156	63986	17.636	ug/l	98
78) n-propylbenzene	11.299	91	295566	16.657	ug/l	100
79) 2-Chlorotoluene	11.360	91	182492	17.013	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	206597	16.900	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	10138	18.529	ug/l	97
82) 4-Chlorotoluene	11.451	91	216373	17.112	ug/l	100
83) tert-Butylbenzene	11.713	119	203328	16.671	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	214157	17.518	ug/l	100
85) sec-Butylbenzene	11.890	105	254977	16.867	ug/l	100
86) p-Isopropyltoluene	12.006	119	214549	16.772	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	118907	17.156	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	122086	17.126	ug/l	99
89) n-Butylbenzene	12.329	91	197431	16.594	ug/l	99
90) Hexachloroethane	12.536	117	35860	15.980	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	115308	17.527	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	14165	16.791	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	73210	16.600	ug/l	99
94) Hexachlorobutadiene	13.719	225	25313	16.124	ug/l	98
95) Naphthalene	13.774	128	217150	17.229	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	71038	17.088	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

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

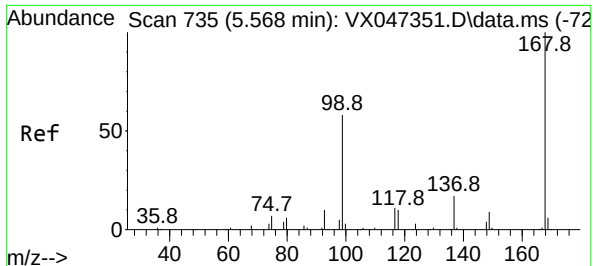
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025





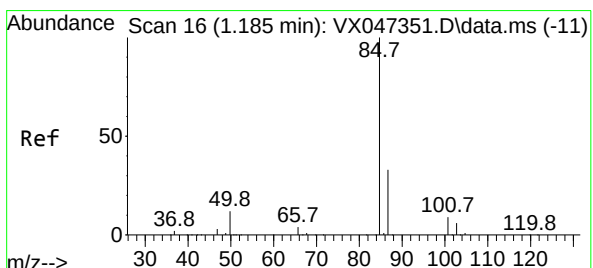
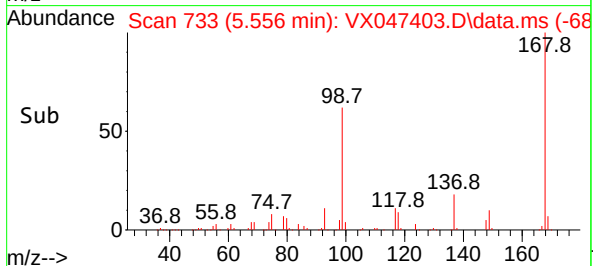
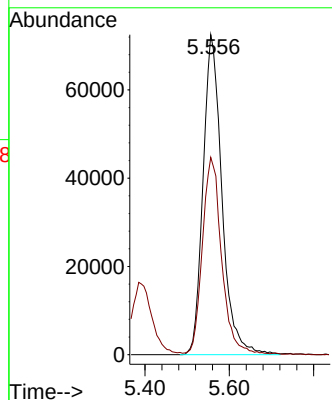
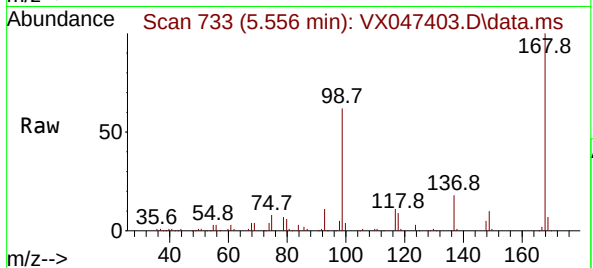
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:168 Resp: 225610
Ion Ratio Lower Upper
168 100
99 61.4 47.9 71.9

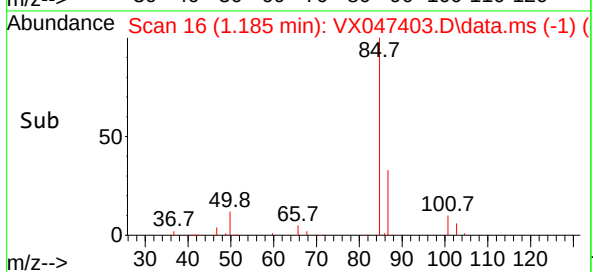
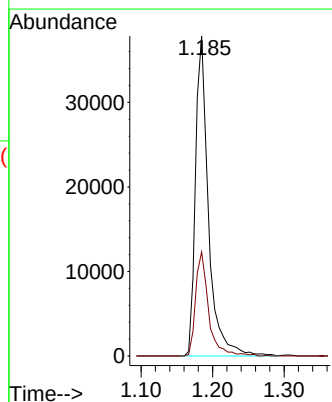
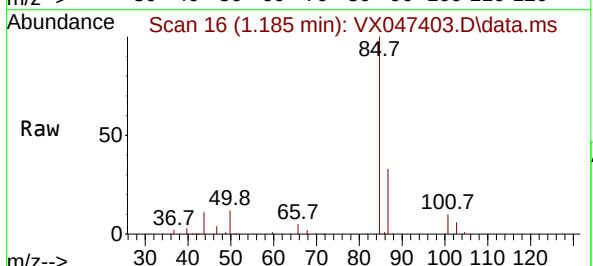
Manual Integrations
APPROVED

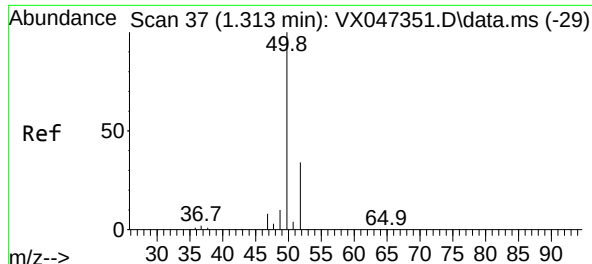
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#2
Dichlorodifluoromethane
Concen: 16.575 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 85 Resp: 47669
Ion Ratio Lower Upper
85 100
87 32.5 16.4 49.1





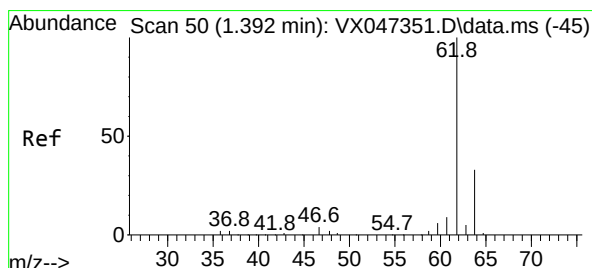
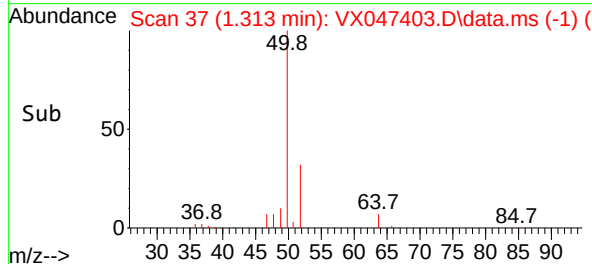
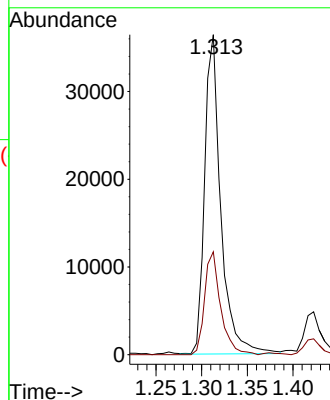
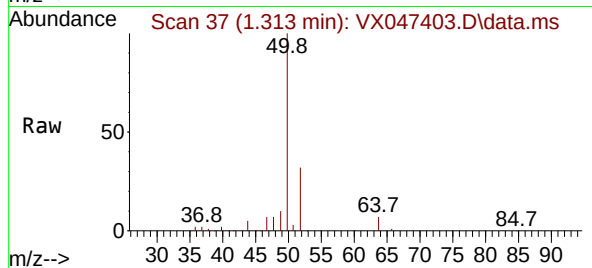
#3
Chloromethane
Concen: 17.237 ug/l
RT: 1.313 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 50 Resp: 44590
Ion Ratio Lower Upper
50 100
52 32.3 27.0 40.4

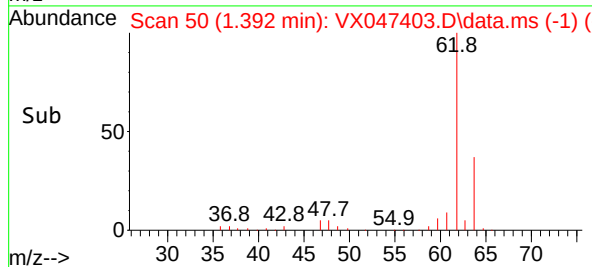
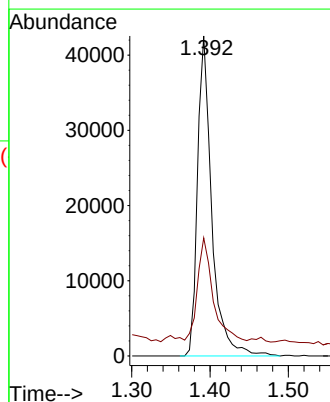
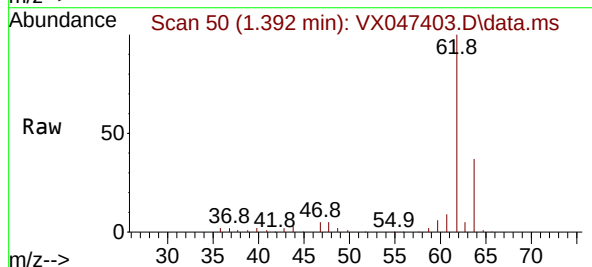
Manual Integrations
APPROVED

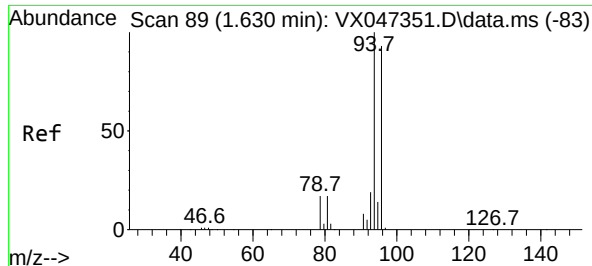
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#4
Vinyl Chloride
Concen: 16.616 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 62 Resp: 53957
Ion Ratio Lower Upper
62 100
64 32.2 26.5 39.7





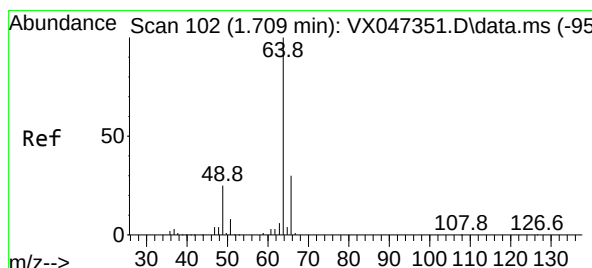
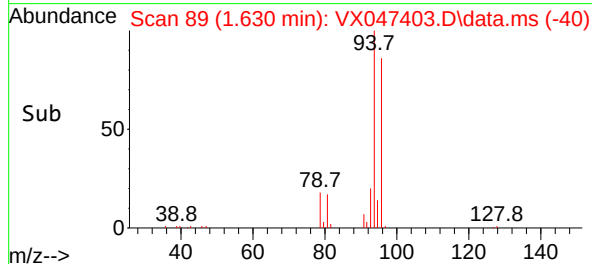
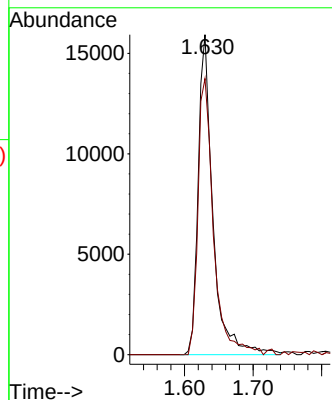
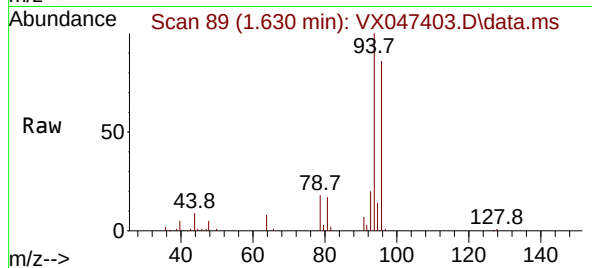
#5
Bromomethane
Concen: 18.170 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 94 Resp: 2383
Ion Ratio Lower Upper
94 100
96 75.7 74.7 112.1

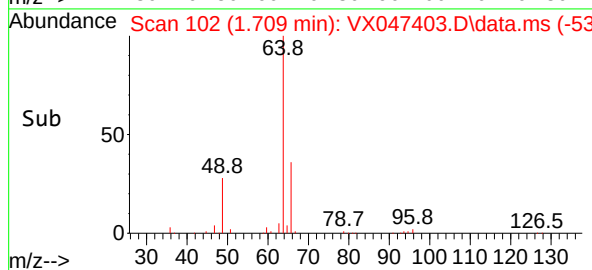
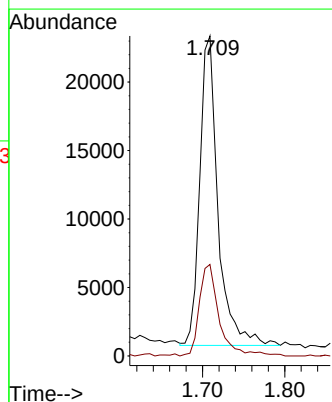
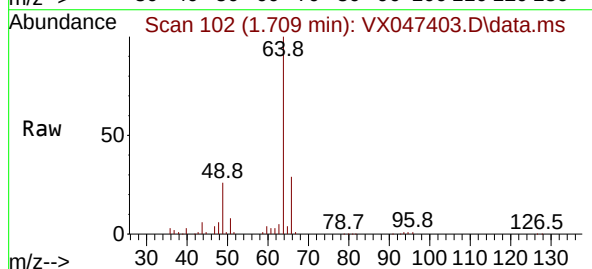
Manual Integrations
APPROVED

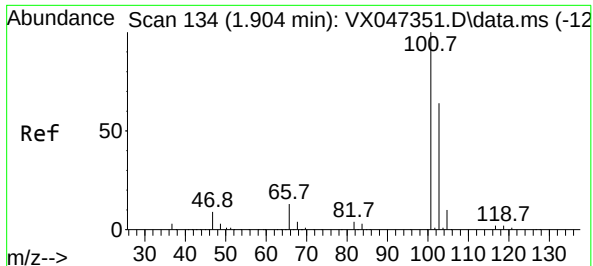
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#6
Chloroethane
Concen: 17.482 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 64 Resp: 34734
Ion Ratio Lower Upper
64 100
66 29.6 24.4 36.6





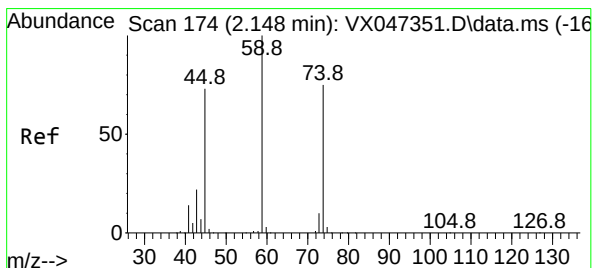
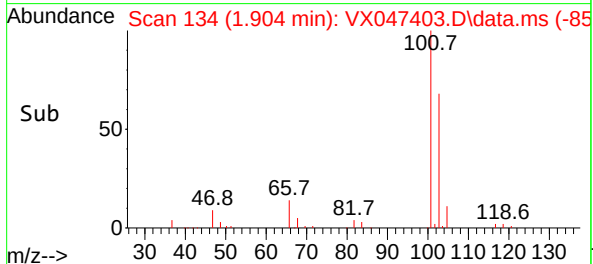
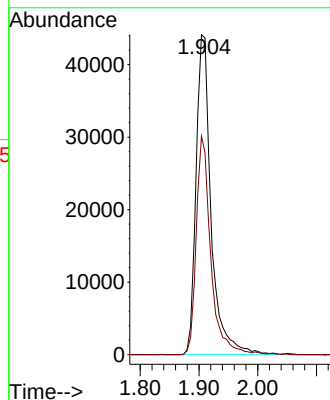
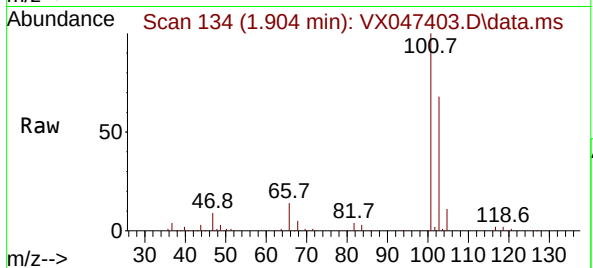
#7
Trichlorofluoromethane
Concen: 16.414 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:101 Resp: 7884
Ion Ratio Lower Upper
101 100
103 68.3 50.9 76.3

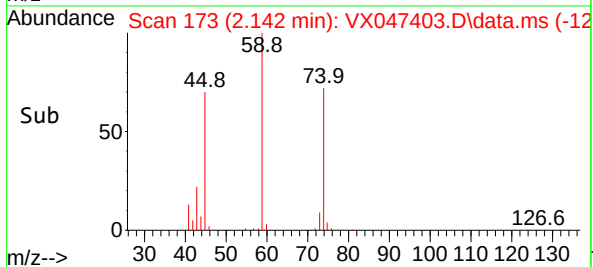
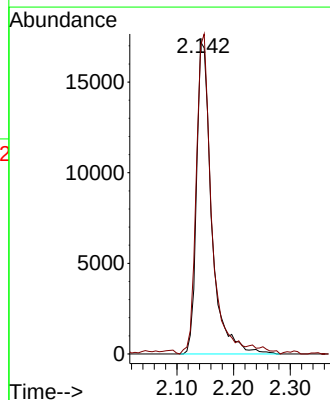
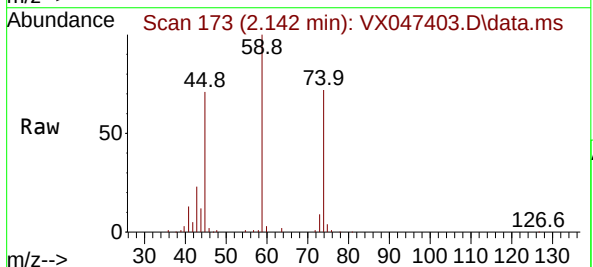
Manual Integrations
APPROVED

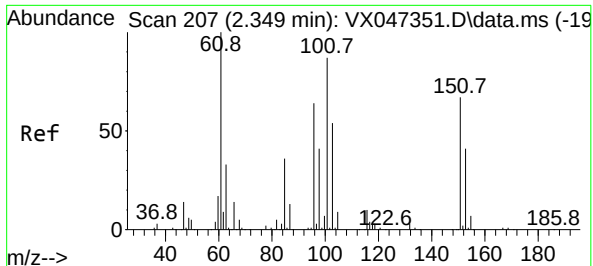
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#8
Diethyl Ether
Concen: 18.794 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 74 Resp: 31787
Ion Ratio Lower Upper
74 100
45 103.0 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 16.545 ug/l

RT: 2.343 min Scan# 207

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

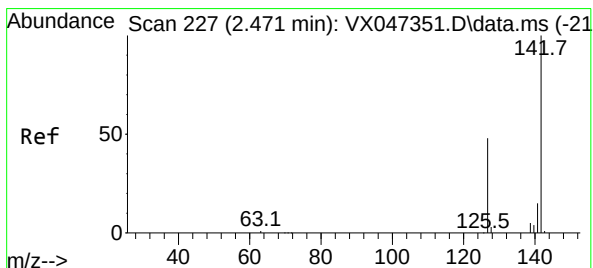
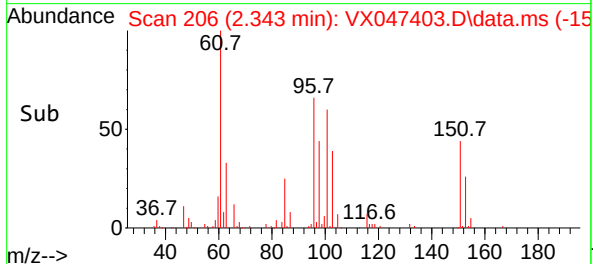
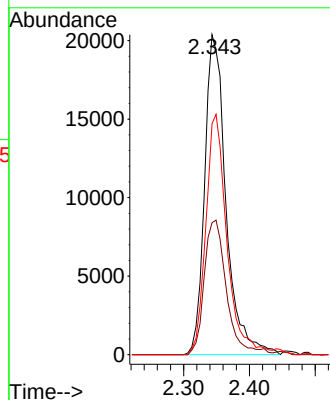
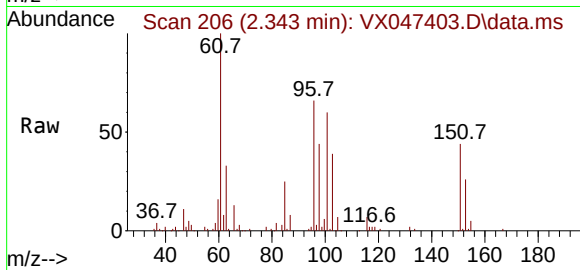
Tgt Ion:	101	Resp:	4610
Ion Ratio	Lower	Upper	
101	100		
85	43.8	34.3	51.5
151	74.2	59.2	88.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#10

Methyl Iodide

Concen: 14.146 ug/l

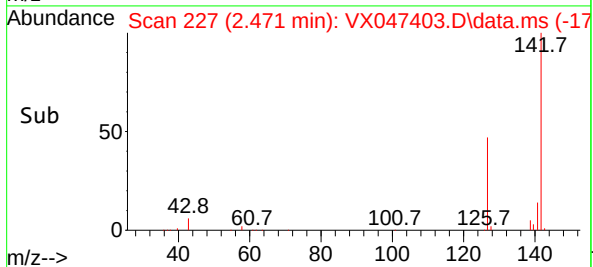
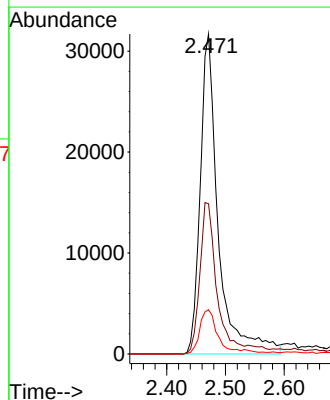
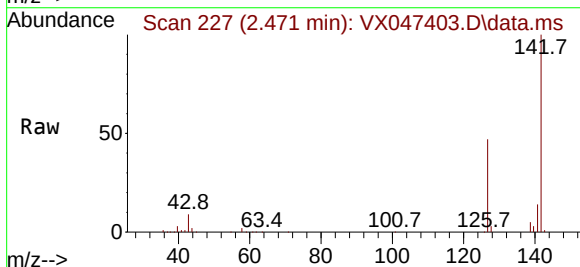
RT: 2.471 min Scan# 227

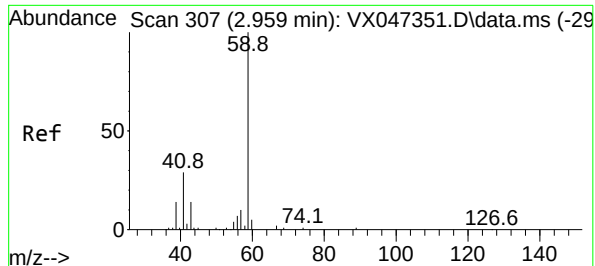
Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	142	Resp:	67548
Ion Ratio	Lower	Upper	
142	100		
127	46.6	36.1	54.1
141	13.5	11.1	16.7





#11

Tert butyl alcohol

Concen: 100.272 ug/l

RT: 2.959 min Scan# 307

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 59 Resp: 2754

Ion Ratio Lower Upper

59 100

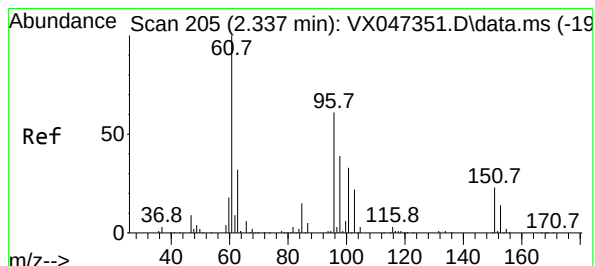
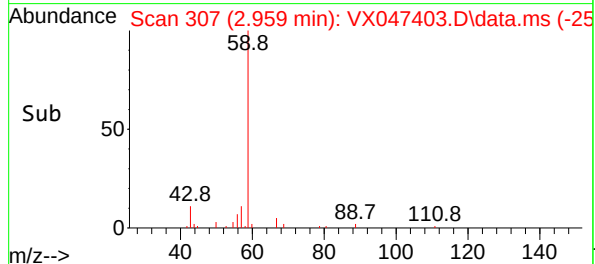
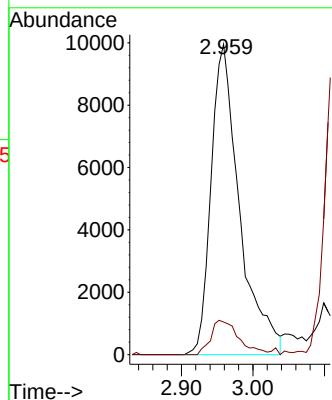
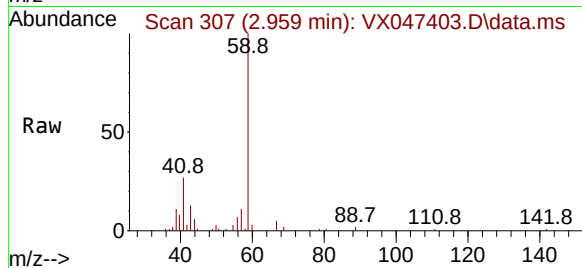
57 10.9 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#12

1,1-Dichloroethene

Concen: 17.304 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

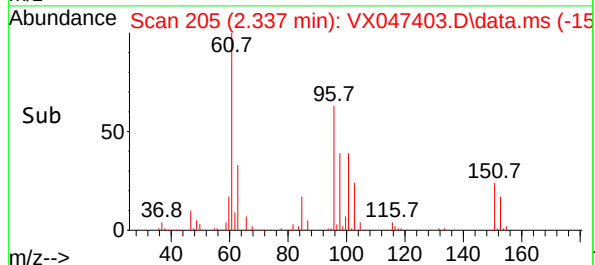
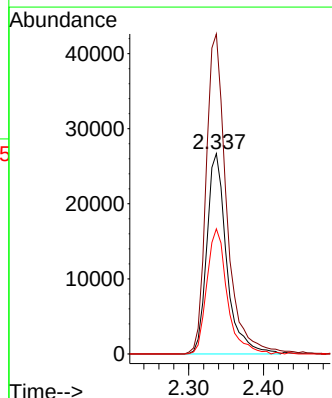
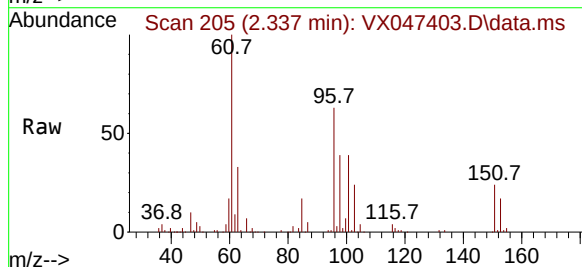
Tgt Ion: 96 Resp: 49153

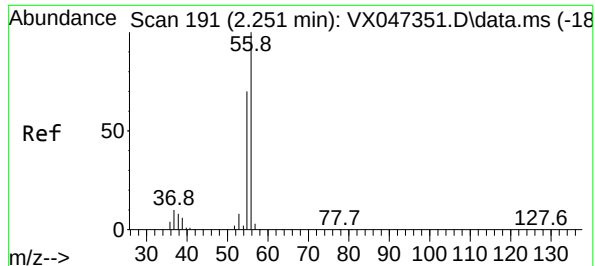
Ion Ratio Lower Upper

96 100

61 159.7 132.2 198.2

98 62.4 51.2 76.8





#13

Acrolein

Concen: 85.675 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 56 Resp: 49678

Ion Ratio Lower Upper

56 100

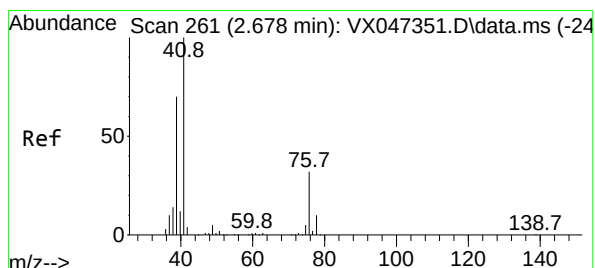
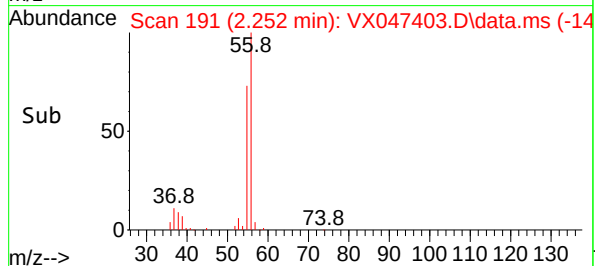
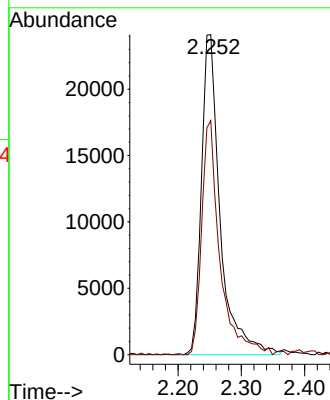
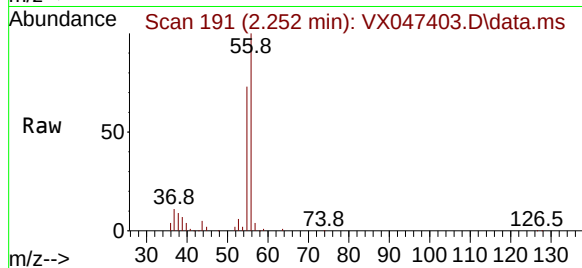
55 70.9 55.5 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#14

Allyl chloride

Concen: 18.017 ug/l

RT: 2.678 min Scan# 261

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

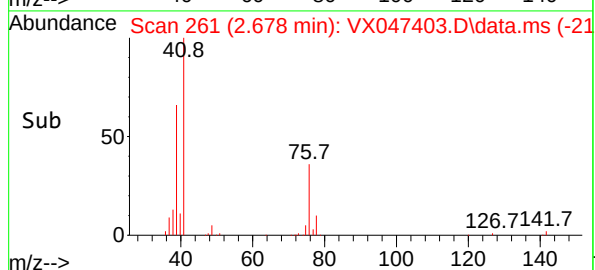
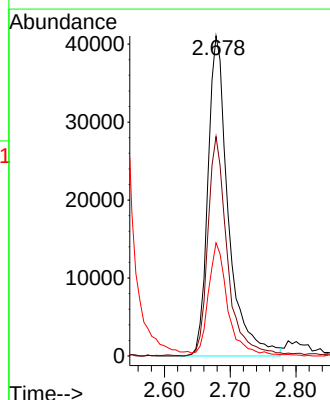
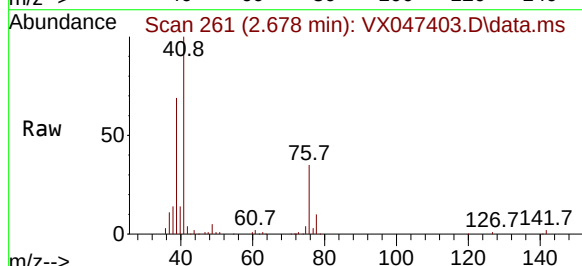
Tgt Ion: 41 Resp: 88890

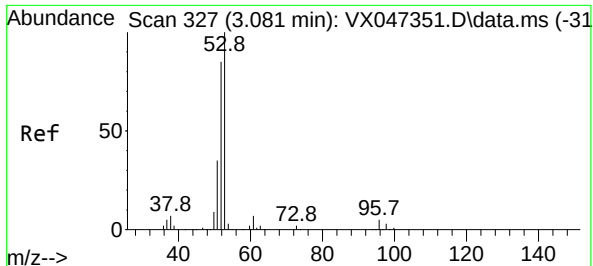
Ion Ratio Lower Upper

41 100

39 66.1 54.6 81.8

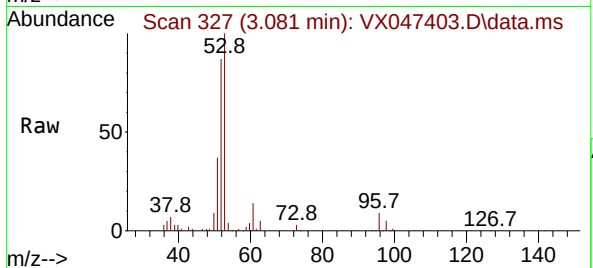
76 33.8 27.6 41.4





#15
Acrylonitrile
Concen: 97.623 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

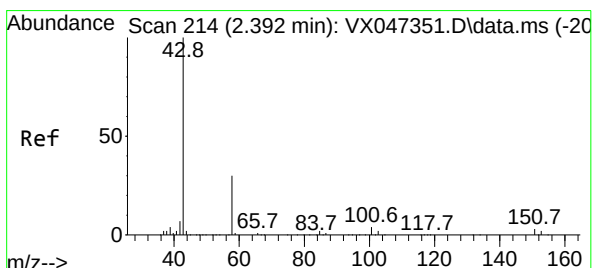
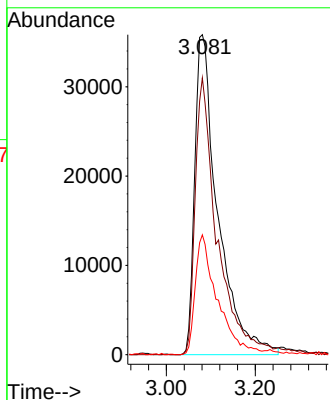
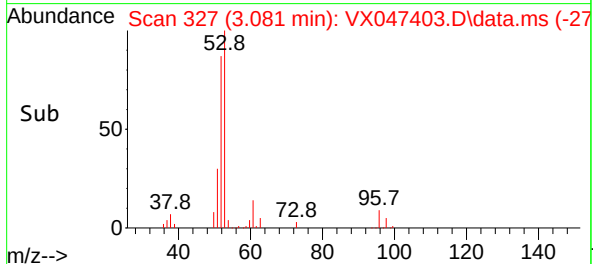
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



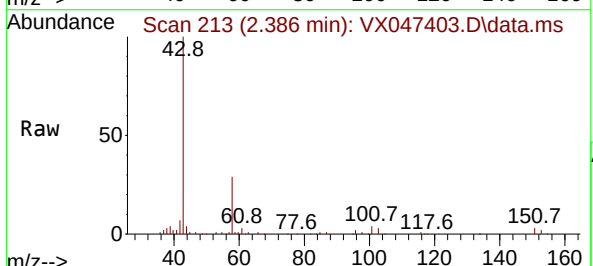
Tgt Ion: 53 Resp: 129570
Ion Ratio Lower Upper
53 100
52 81.7 65.8 98.6
51 35.9 28.2 42.2

Manual Integrations
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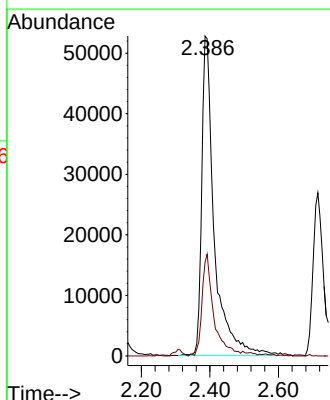
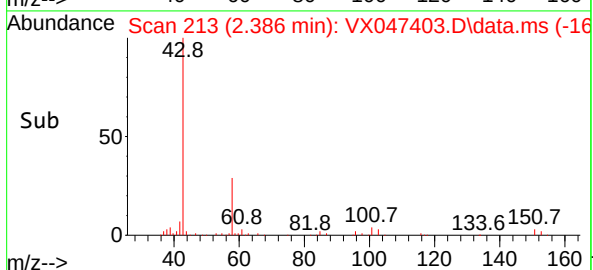
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

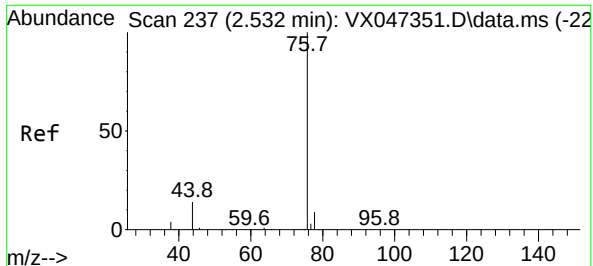


#16
Acetone
Concen: 113.461 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55



Tgt Ion: 43 Resp: 134660
Ion Ratio Lower Upper
43 100
58 30.5 24.8 37.2





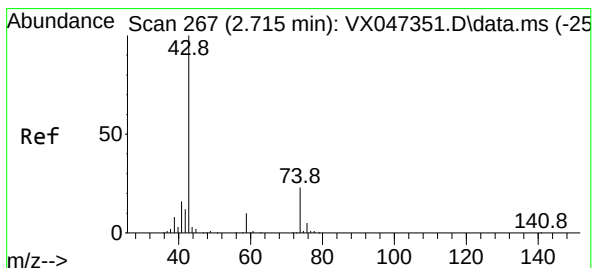
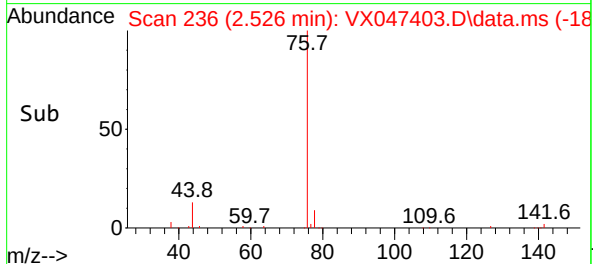
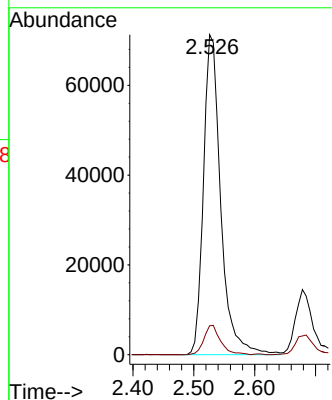
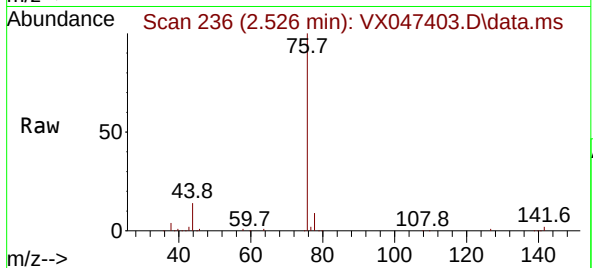
#17
Carbon Disulfide
Concen: 16.407 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 76 Resp: 14064
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8

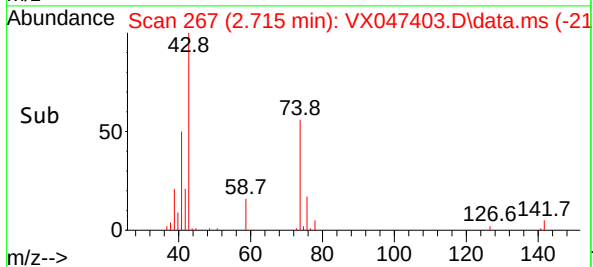
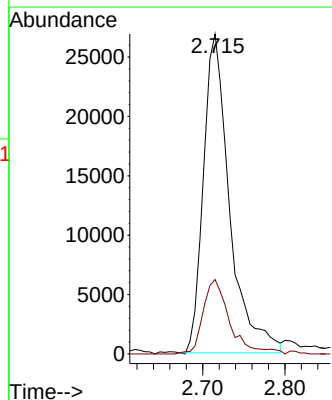
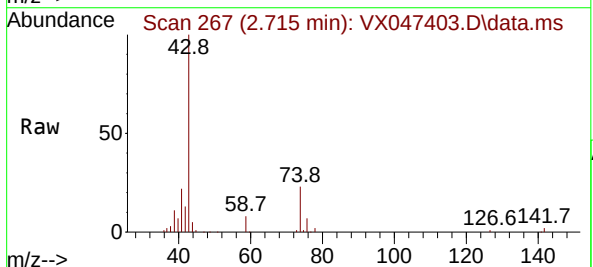
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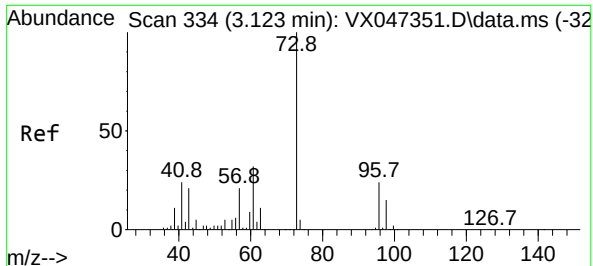
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#18
Methyl Acetate
Concen: 19.307 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 59381
Ion Ratio Lower Upper
43 100
74 23.6 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 19.208 ug/l

RT: 3.123 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 73 Resp: 16598

Ion Ratio Lower Upper

73 100

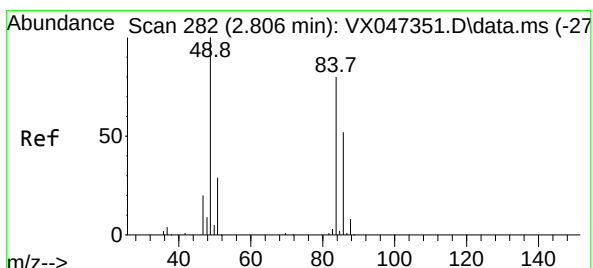
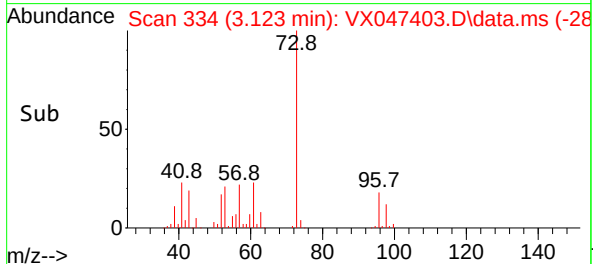
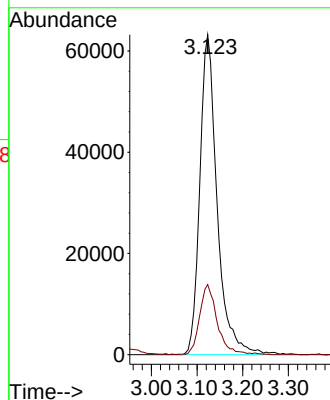
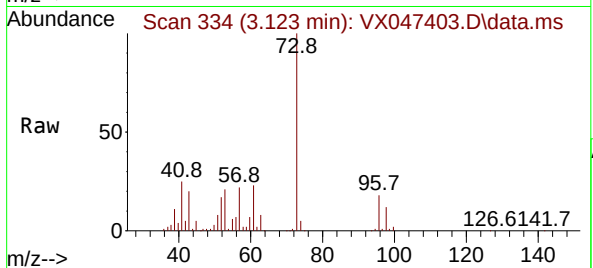
57 21.9 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#20

Methylene Chloride

Concen: 18.973 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion: 84 Resp: 59628

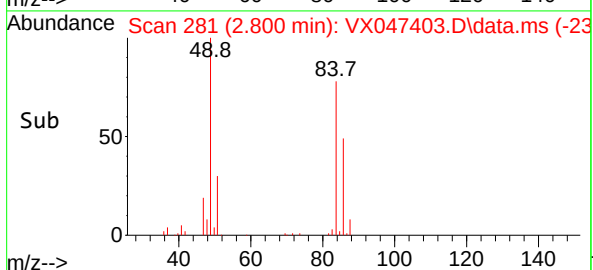
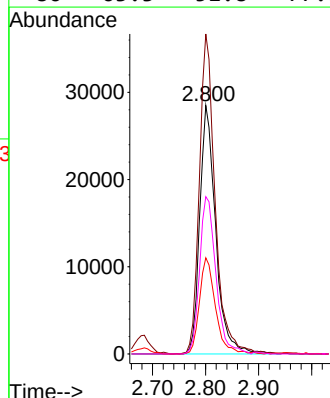
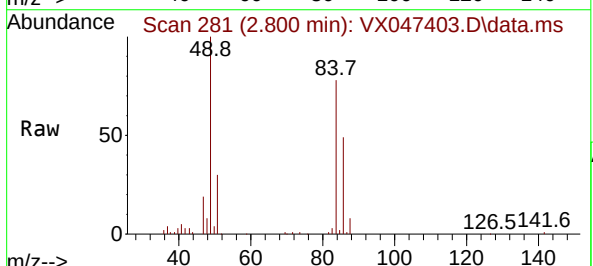
Ion Ratio Lower Upper

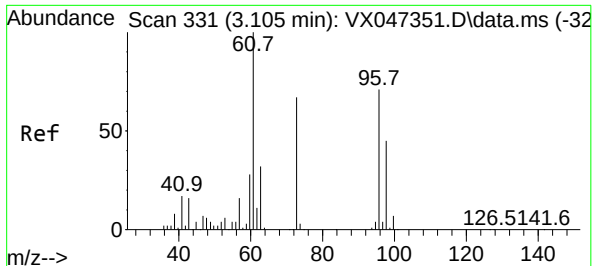
84 100

49 128.7 100.1 150.1

51 38.7 29.5 44.3

86 63.3 51.8 77.8





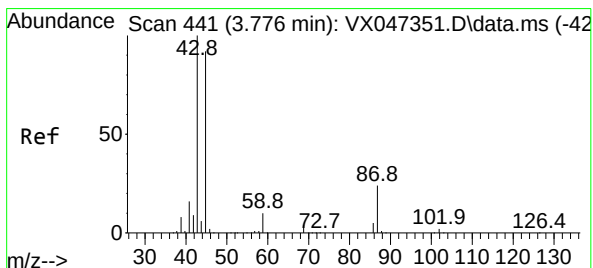
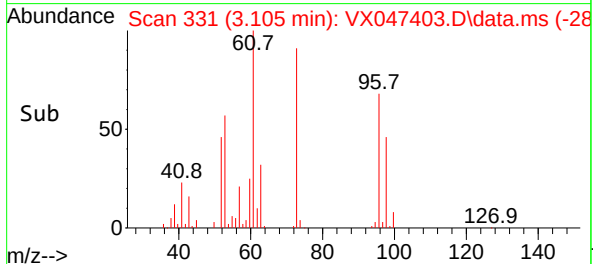
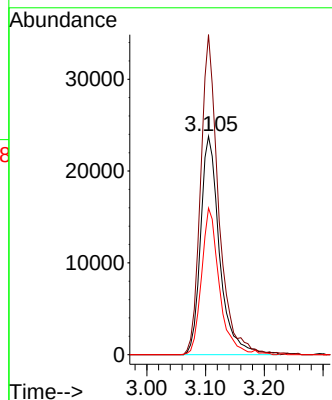
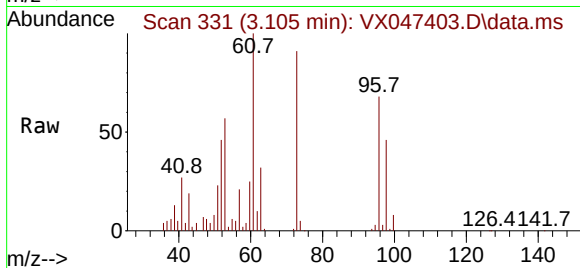
#21
trans-1,2-Dichloroethene
Concen: 17.738 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 96 Resp: 53480
Ion Ratio Lower Upper
96 100
61 146.6 112.6 169.0
98 67.1 50.9 76.3

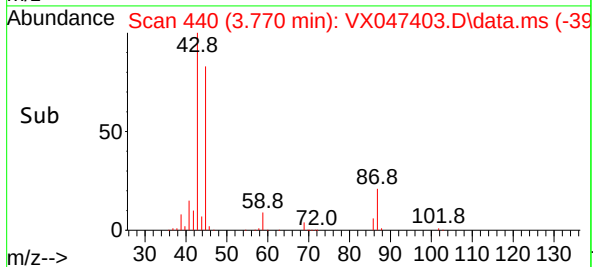
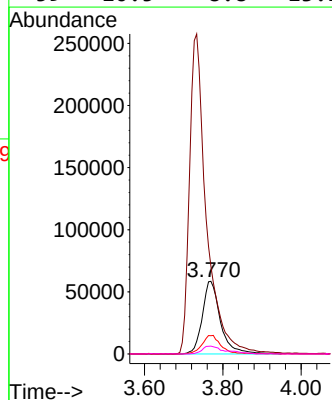
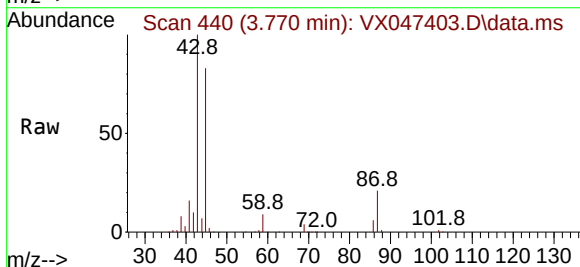
Manual Integrations
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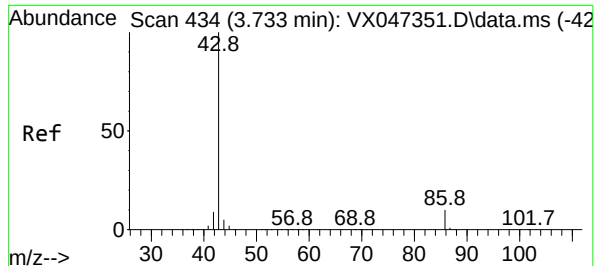
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#22
Diisopropyl ether
Concen: 19.306 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 45 Resp: 188286
Ion Ratio Lower Upper
45 100
43 116.0 86.8 130.2
87 24.7 20.4 30.6
59 10.5 8.8 13.2





#23

Vinyl Acetate

Concen: 97.042 ug/l

RT: 3.733 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 43 Resp: 77571

Ion Ratio Lower Upper

43

100

86

10.6

7.9

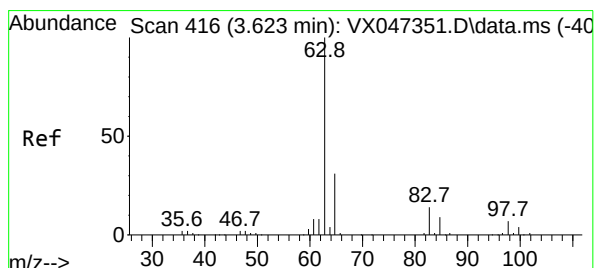
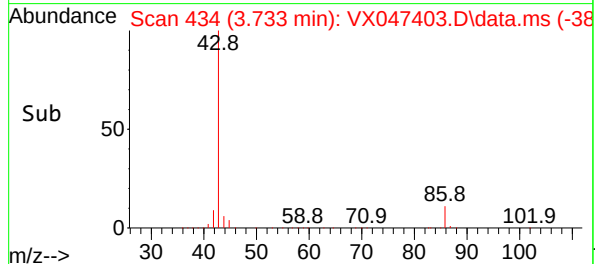
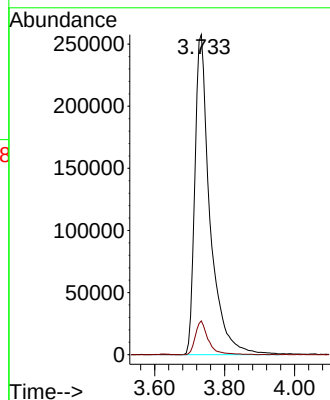
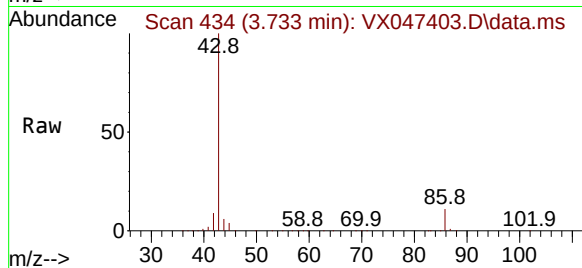
11.9

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#24

1,1-Dichloroethane

Concen: 18.559 ug/l

RT: 3.623 min Scan# 416

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion: 63 Resp: 102305

Ion Ratio Lower Upper

63

100

98

7.9

3.3

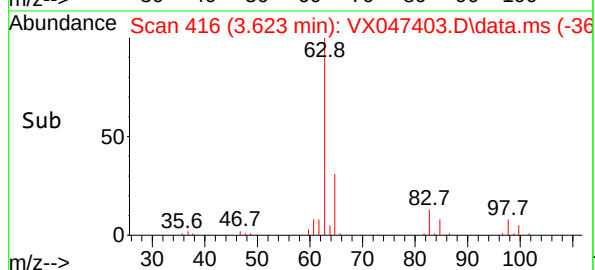
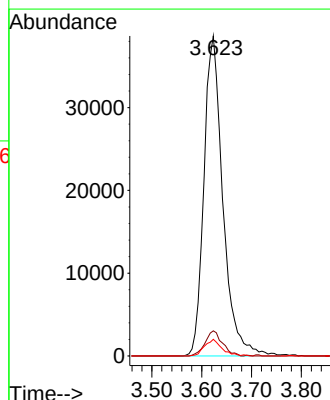
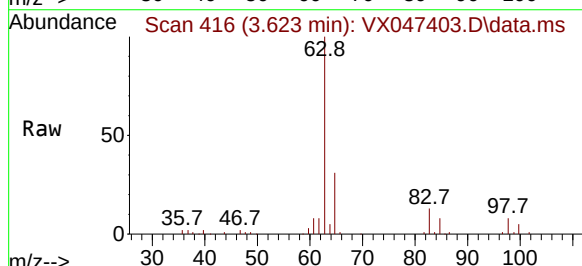
9.9

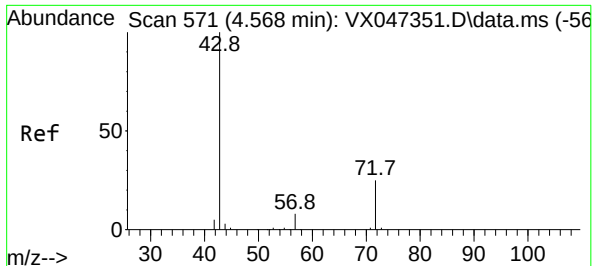
100

5.2

2.1

6.3





#25

2-Butanone

Concen: 105.771 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 43 Resp: 164408

Ion Ratio Lower Upper

43 100

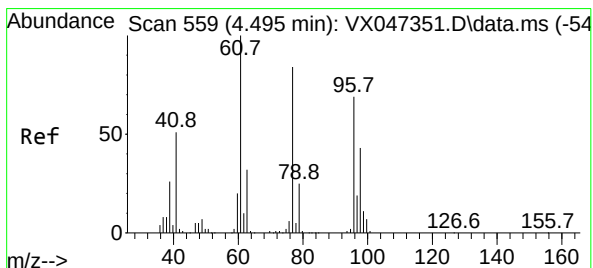
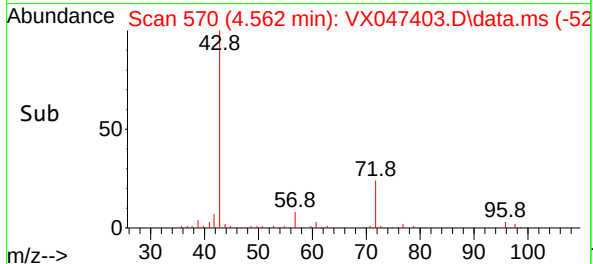
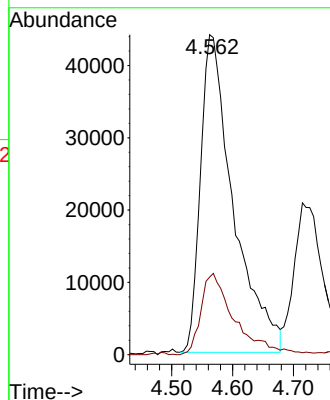
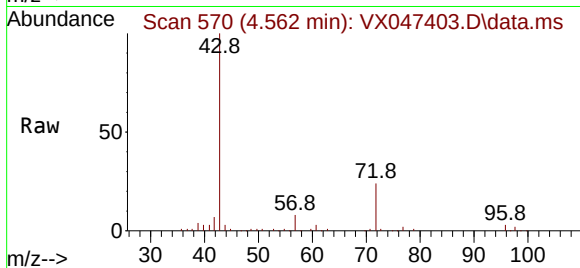
72 25.9 19.8 29.8

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#26

2,2-Dichloropropane

Concen: 18.463 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX047403.D

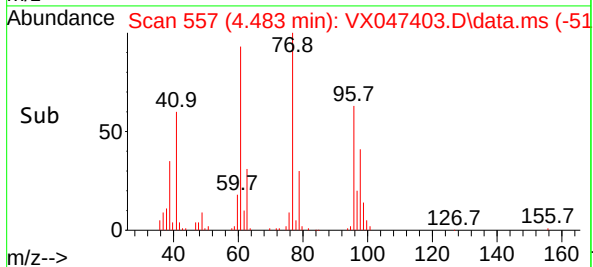
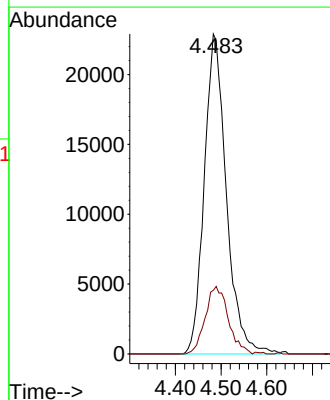
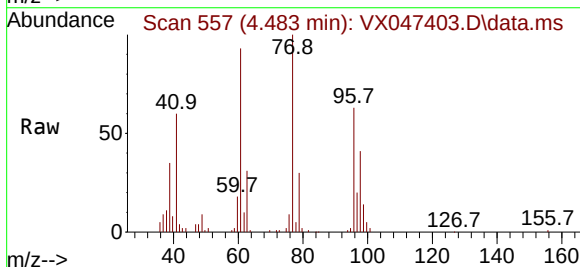
Acq: 19 Aug 2025 11:55

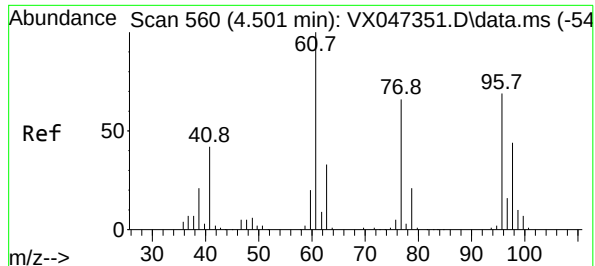
Tgt Ion: 77 Resp: 76816

Ion Ratio Lower Upper

77 100

97 22.0 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 18.543 ug/l

RT: 4.501 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

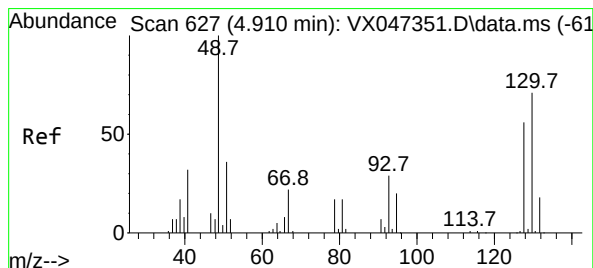
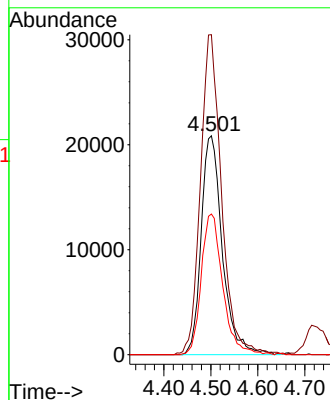
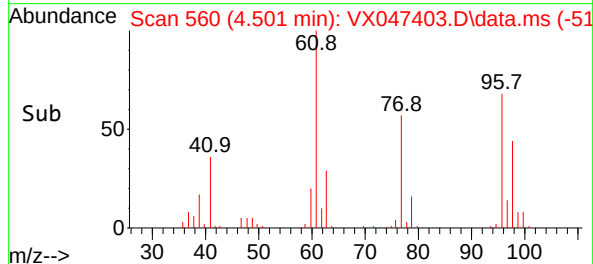
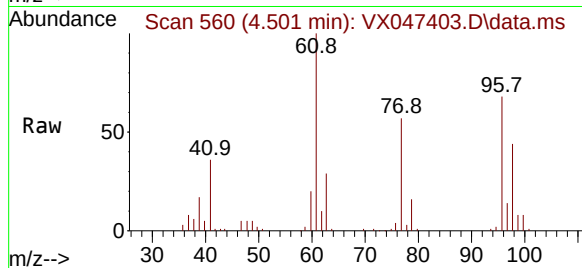
VX0819WBS01

Tgt Ion:	96	Resp:	6511
Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	296.6
98	65.3	0.0	130.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#28

Bromochloromethane

Concen: 22.891 ug/l

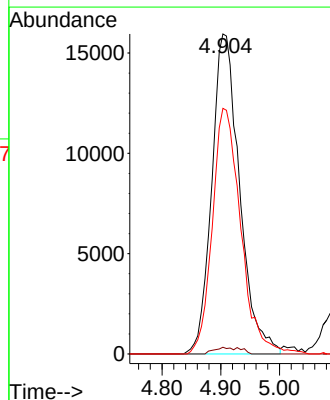
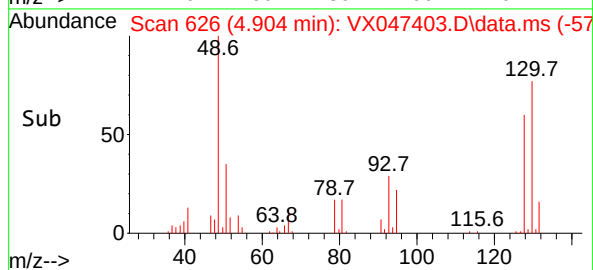
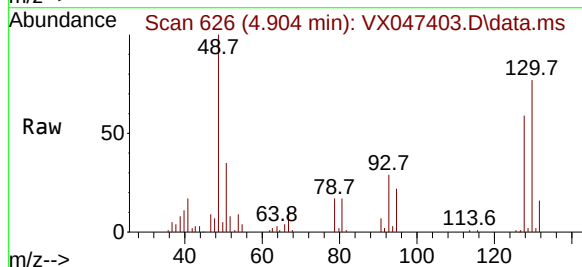
RT: 4.904 min Scan# 626

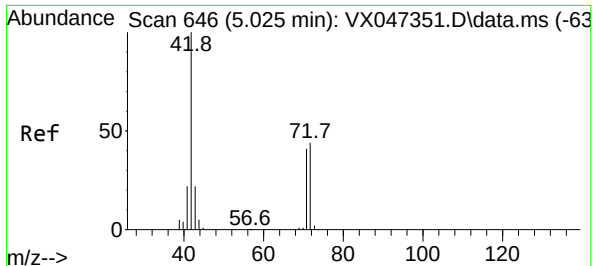
Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	49	Resp:	52508
Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.0
130	78.3	59.8	89.6





#29

Tetrahydrofuran

Concen: 96.629 ug/l

RT: 5.019 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 42 Resp: 97079

Ion Ratio Lower Upper

42 100

72 45.1 34.6 51.8

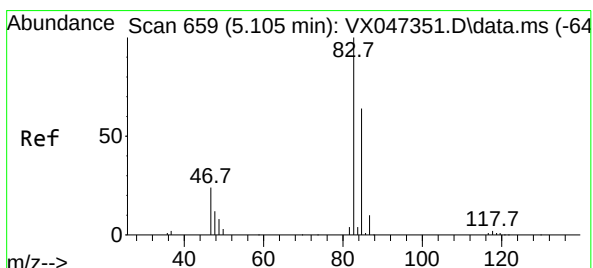
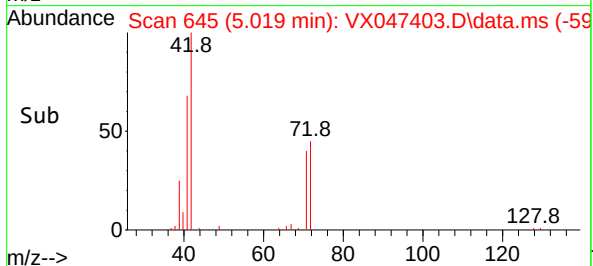
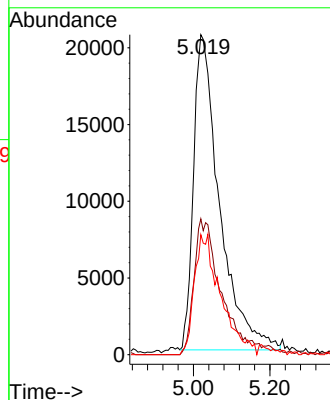
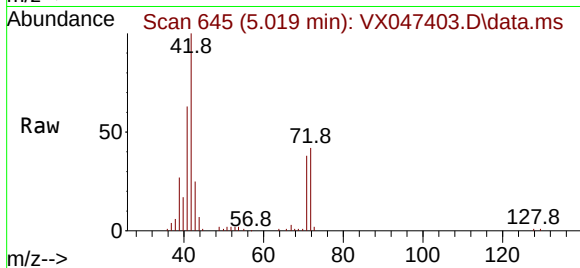
71 37.5 32.6 49.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#30

Chloroform

Concen: 18.896 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.006 min

Lab File: VX047403.D

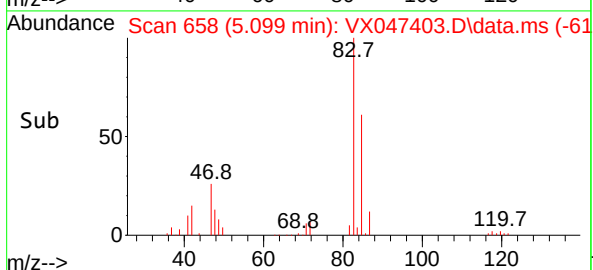
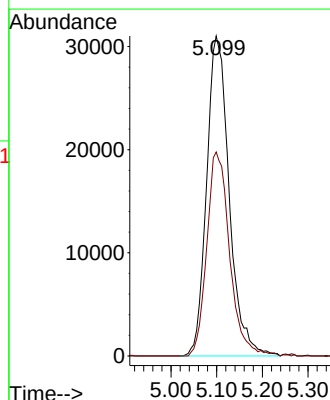
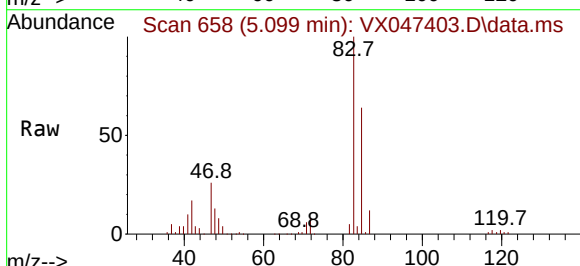
Acq: 19 Aug 2025 11:55

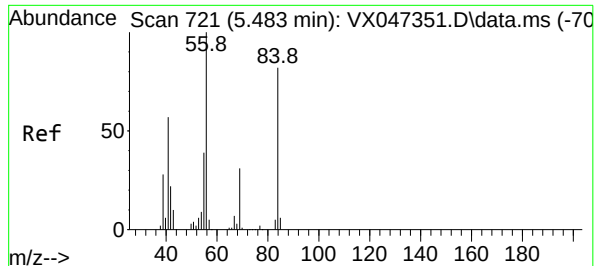
Tgt Ion: 83 Resp: 106302

Ion Ratio Lower Upper

83 100

85 61.3 51.2 76.8





#31

Cyclohexane

Concen: 16.722 ug/l

RT: 5.477 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 56 Resp: 8497

Ion Ratio Lower Upper

56 100

69 27.8 24.3 36.5

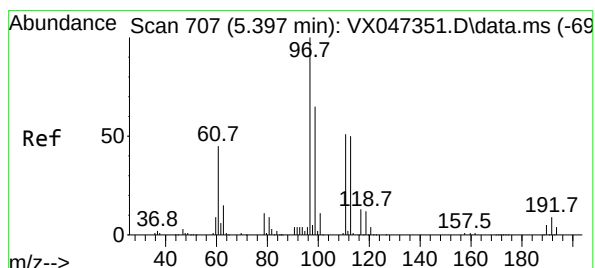
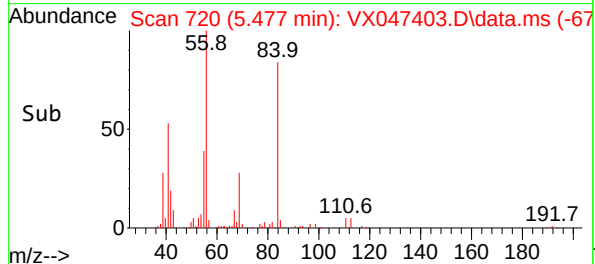
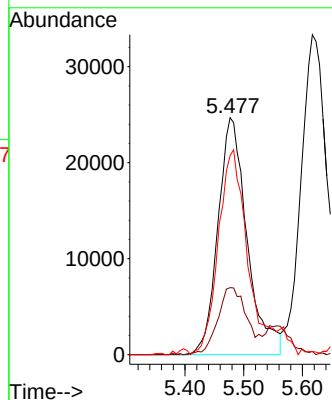
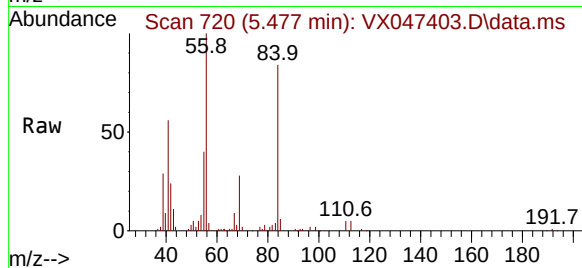
84 82.4 65.3 97.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#32

1,1,1-Trichloroethane

Concen: 17.934 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

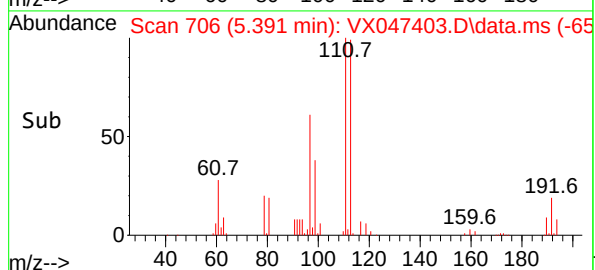
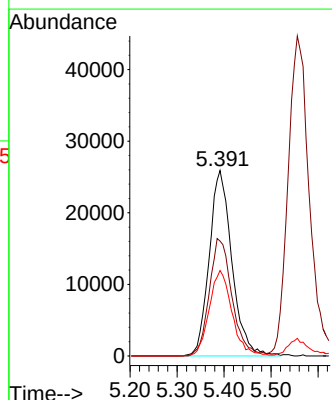
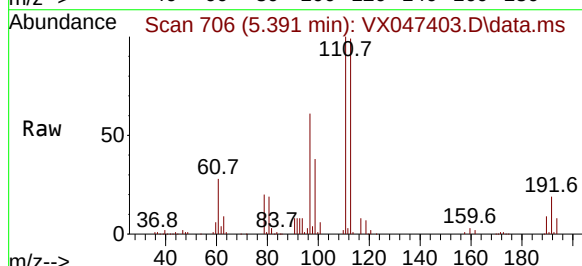
Tgt Ion: 97 Resp: 86840

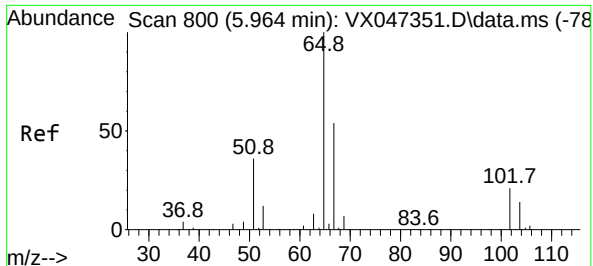
Ion Ratio Lower Upper

97 100

99 63.5 51.4 77.0

61 46.2 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 54.270 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

Client SampleId :

VX0819WBS01

Tgt Ion: 65 Resp: 17135

Ion Ratio Lower Upper

65 100

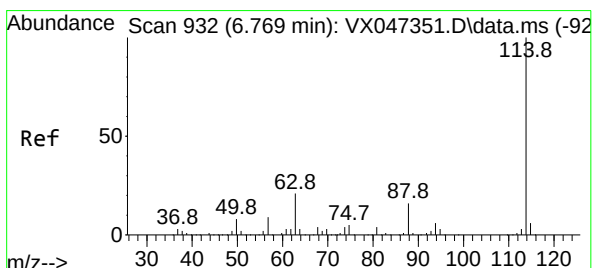
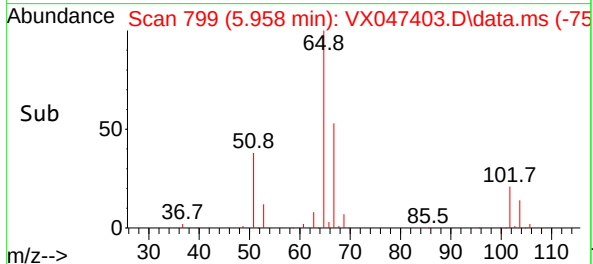
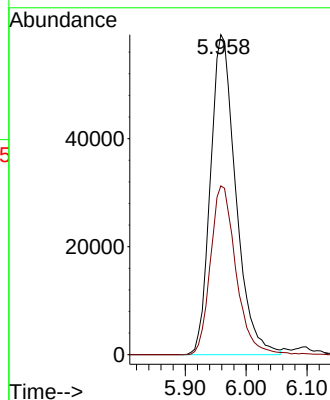
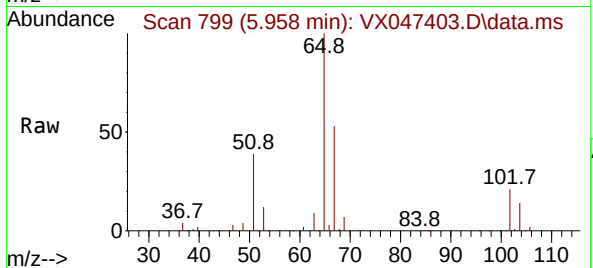
67 53.0 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

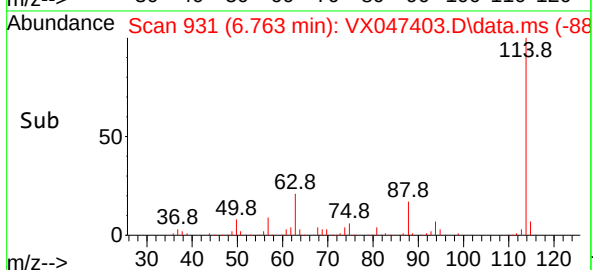
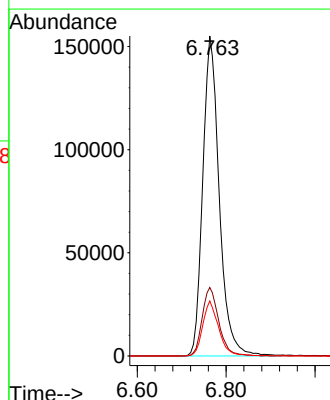
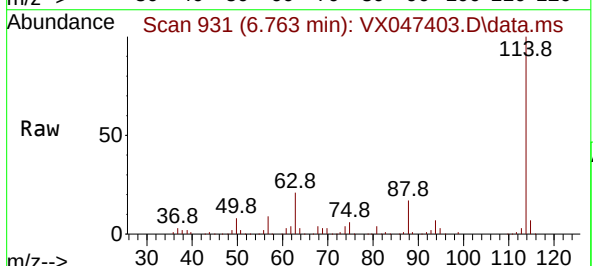
Tgt Ion:114 Resp: 400778

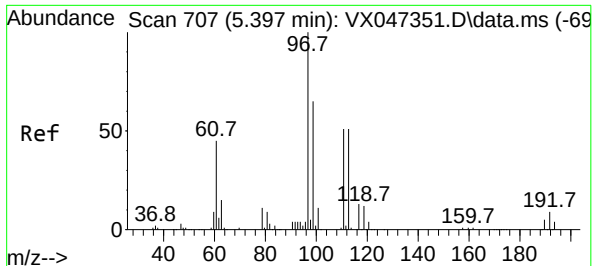
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.4

88 17.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 52.123 ug/l

RT: 5.391 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

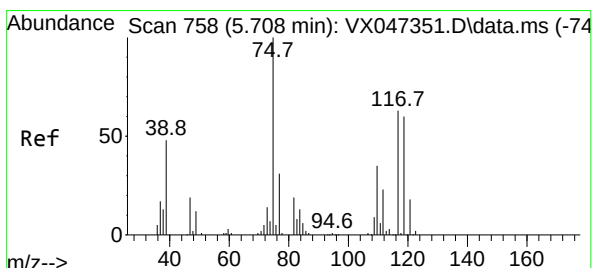
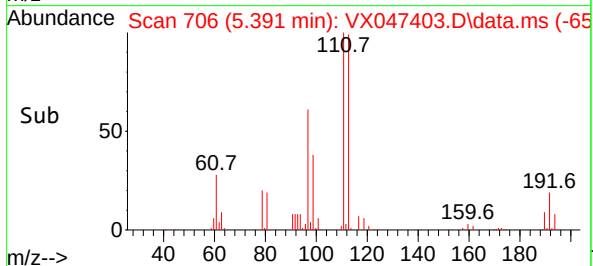
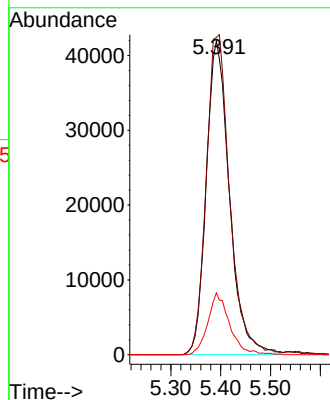
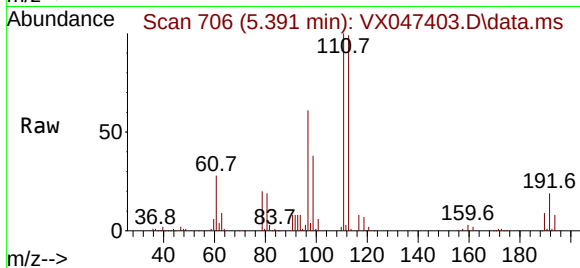
Tgt Ion:	113	Resp:	135570
Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.4	122.2
192	18.5	14.1	21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#36

1,1-Dichloropropene

Concen: 16.922 ug/l

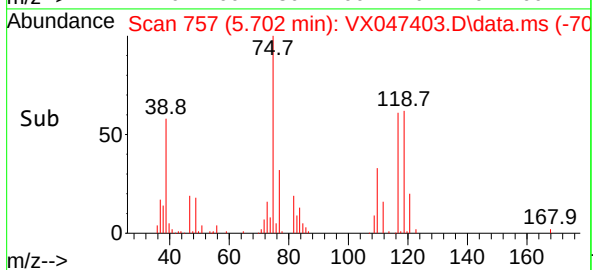
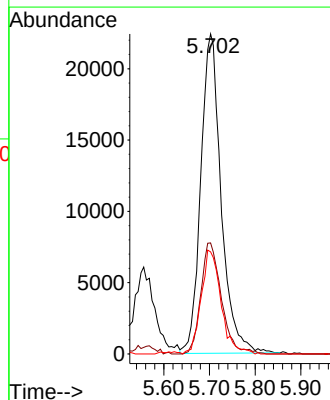
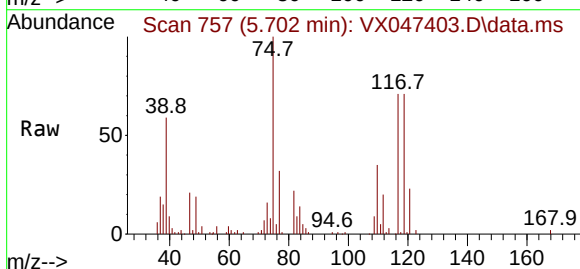
RT: 5.702 min Scan# 757

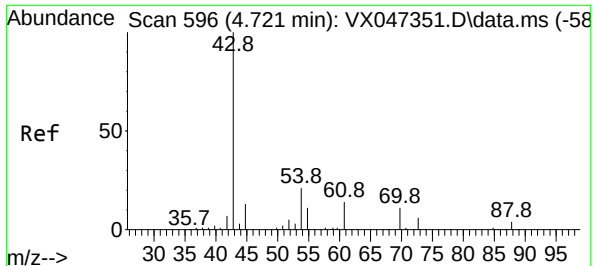
Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	75	Resp:	69481
Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.4	52.2
77	31.6	24.4	36.6





#37

Ethyl Acetate

Concen: 16.439 ug/l

RT: 4.715 min Scan# 596

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

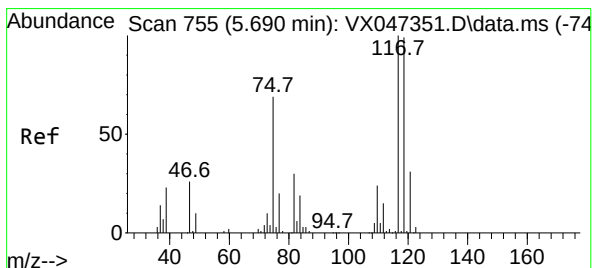
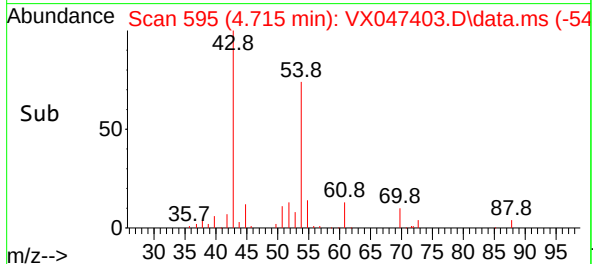
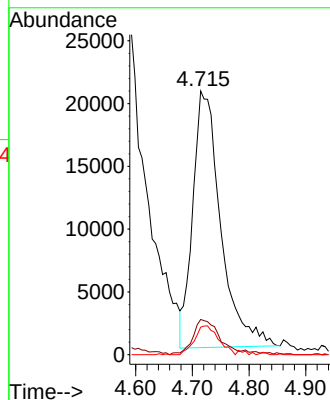
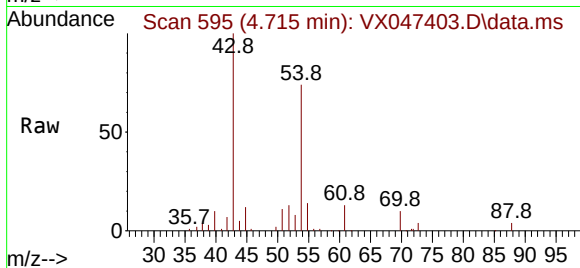
ClientSampleId :

VX0819WBS01

Tgt Ion:	43	Resp:	7007
Ion	Ratio	Lower	Upper
43	100		
61	13.8	9.4	14.2
70	9.5	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#38

Carbon Tetrachloride

Concen: 16.931 ug/l

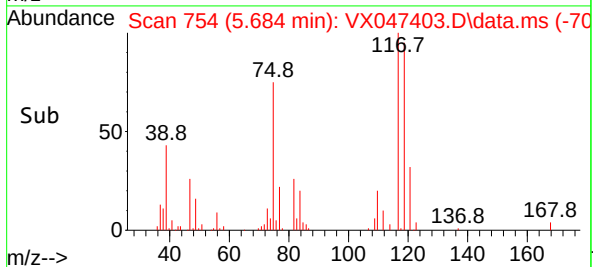
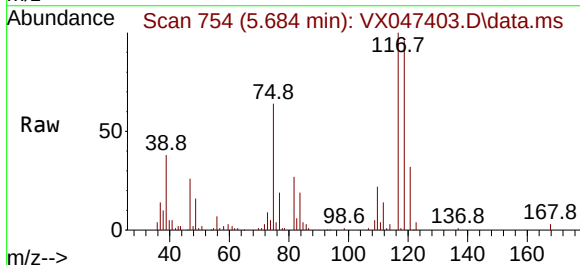
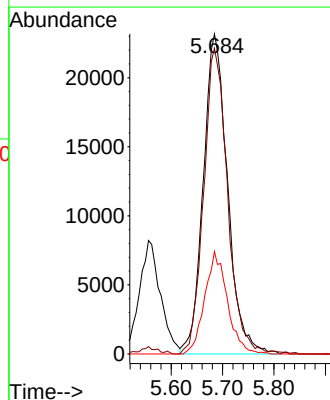
RT: 5.684 min Scan# 754

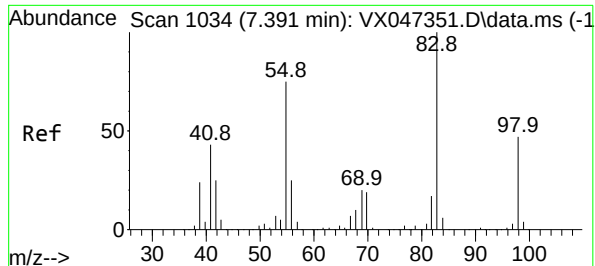
Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	117	Resp:	75969
Ion	Ratio	Lower	Upper
117	100		
119	95.5	78.5	117.7
121	32.0	24.7	37.1





#39

Methylcyclohexane

Concen: 15.207 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 83 Resp: 7788

Ion Ratio Lower Upper

83 100

55 71.6 60.0 90.0

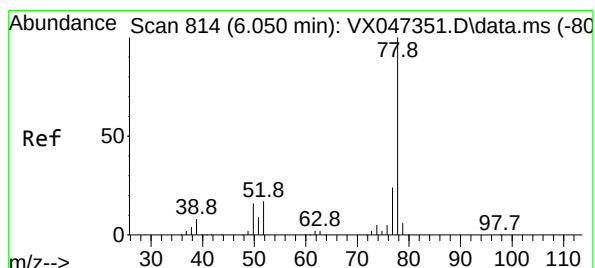
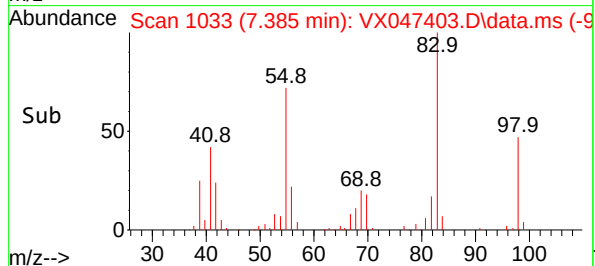
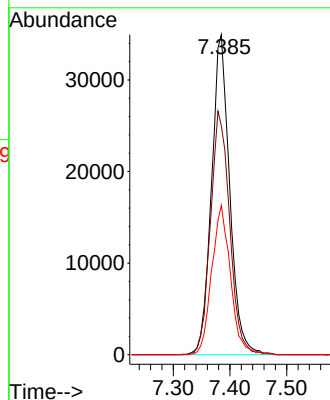
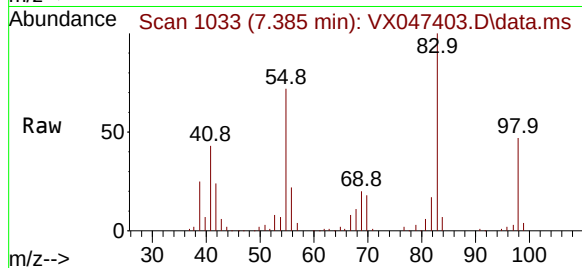
98 46.7 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#40

Benzene

Concen: 17.957 ug/l

RT: 6.044 min Scan# 813

Delta R.T. -0.006 min

Lab File: VX047403.D

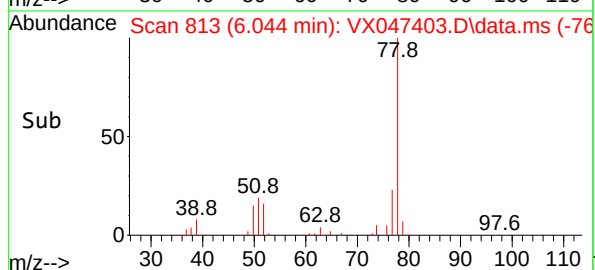
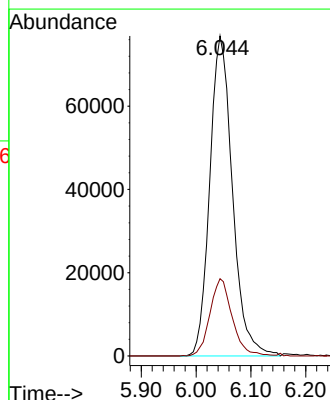
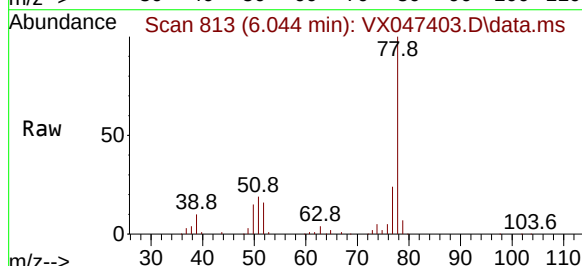
Acq: 19 Aug 2025 11:55

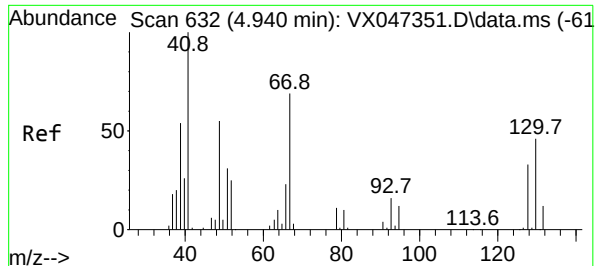
Tgt Ion: 78 Resp: 220693

Ion Ratio Lower Upper

78 100

77 24.2 19.0 28.4





#41

Methacrylonitrile

Concen: 19.496 ug/l

RT: 4.934 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 41 Resp: 3504

Ion Ratio Lower Upper

41 100

39 51.1 45.4 68.2

67 73.4 64.0 96.0

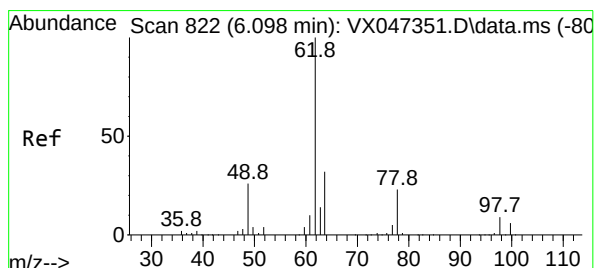
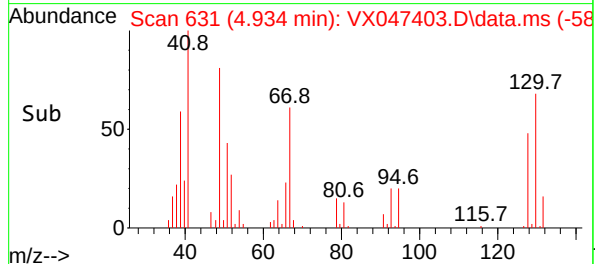
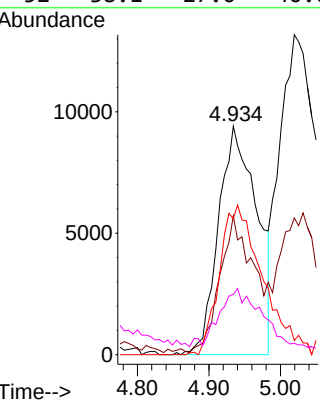
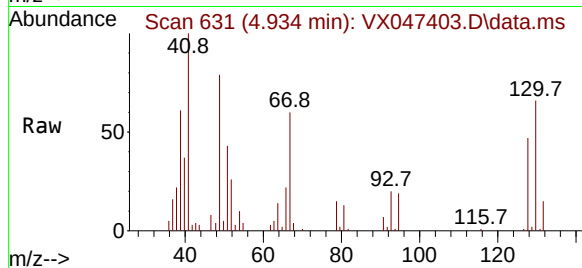
52 38.1 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#42

1,2-Dichloroethane

Concen: 18.686 ug/l

RT: 6.092 min Scan# 821

Delta R.T. -0.006 min

Lab File: VX047403.D

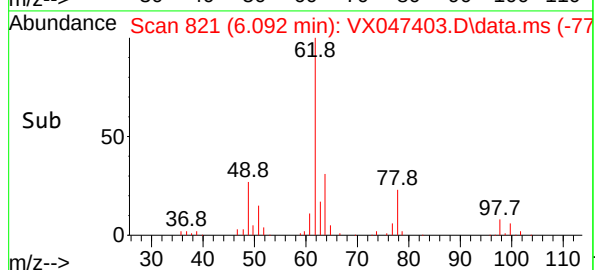
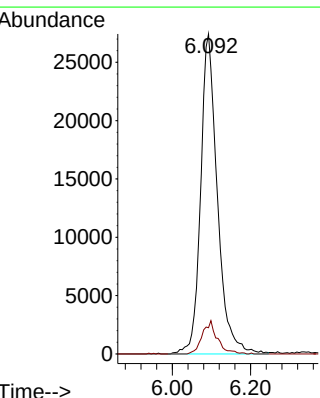
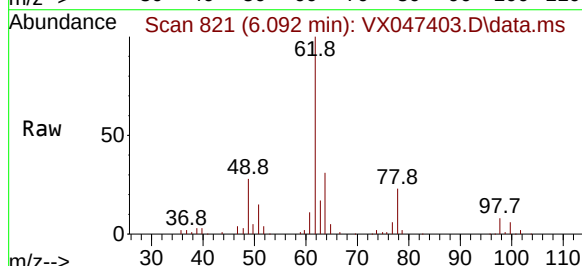
Acq: 19 Aug 2025 11:55

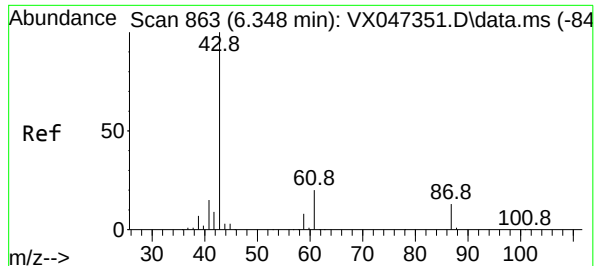
Tgt Ion: 62 Resp: 81344

Ion Ratio Lower Upper

62 100

98 9.3 0.0 18.0





#43

Isopropyl Acetate

Concen: 18.037 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 43 Resp: 11045

Ion Ratio Lower Upper

43

61

87

100

19.5

13.2

15.4

10.2

23.0

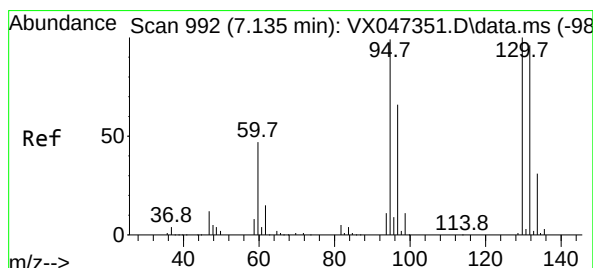
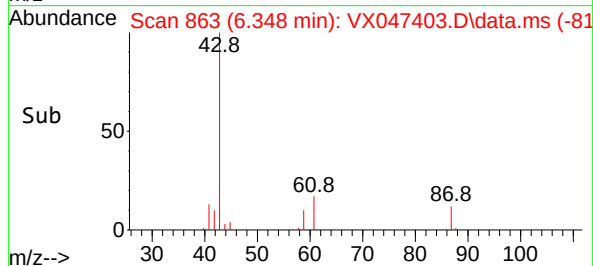
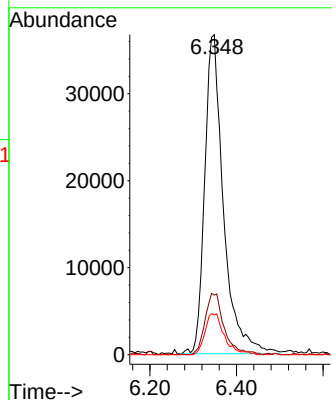
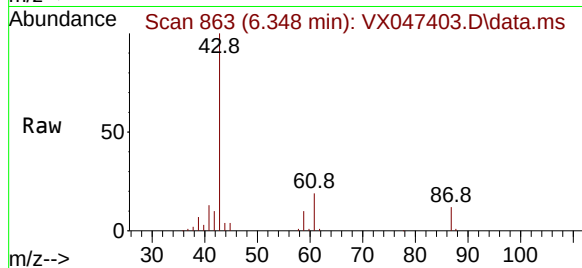
15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#44

Trichloroethene

Concen: 17.244 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:130 Resp: 54266

Ion Ratio Lower Upper

130

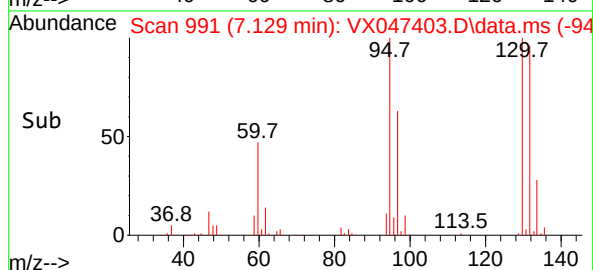
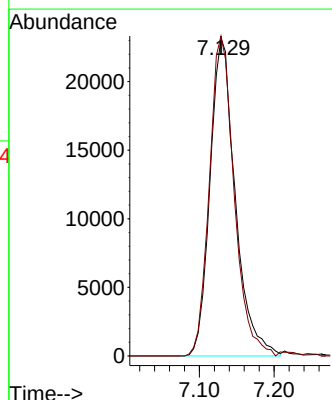
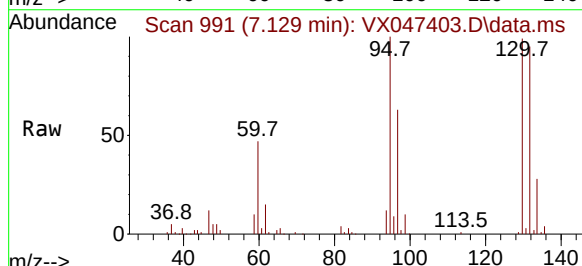
95

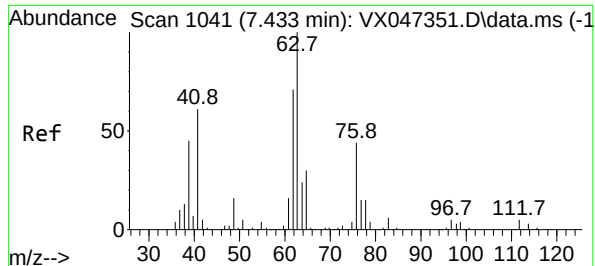
100

100.7

0.0

198.6





#45

1,2-Dichloropropane

Concen: 18.336 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 63 Resp: 5645

Ion Ratio Lower Upper

63 100

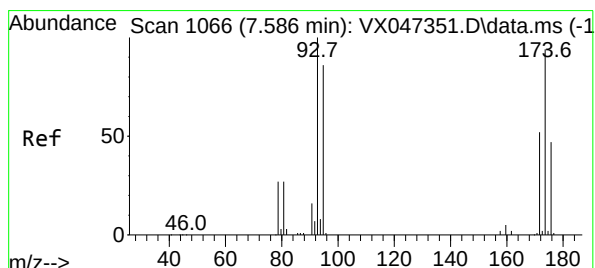
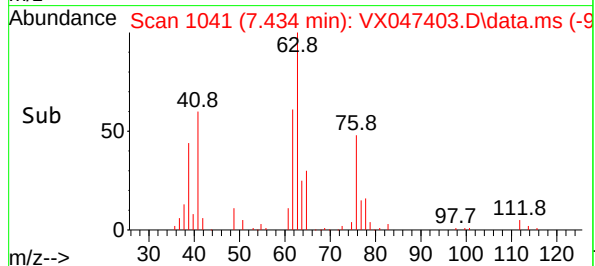
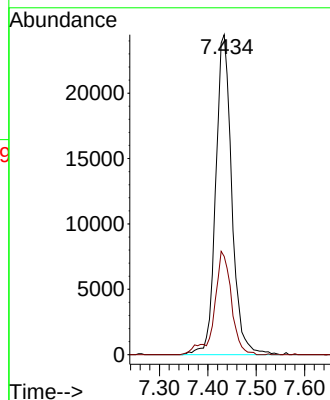
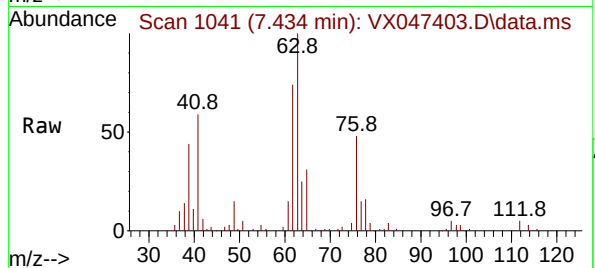
65 30.7 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#46

Dibromomethane

Concen: 18.452 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

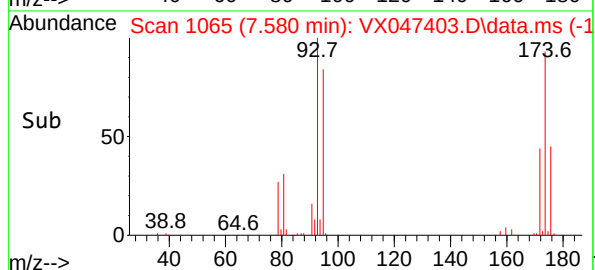
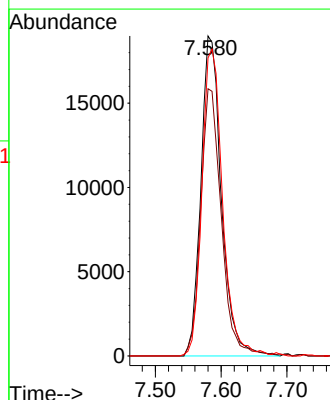
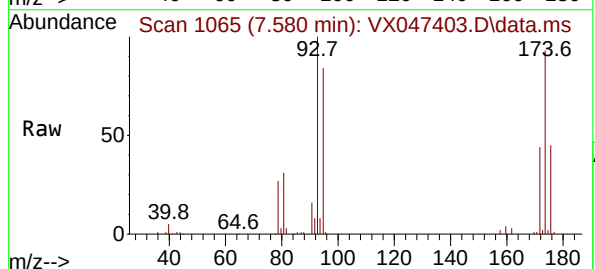
Tgt Ion: 93 Resp: 41245

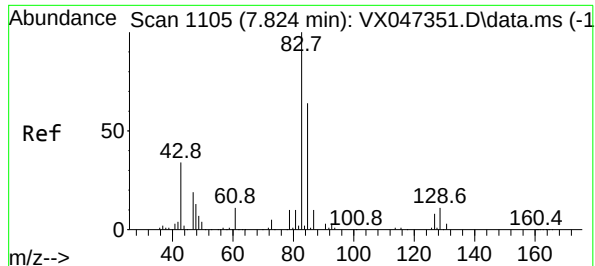
Ion Ratio Lower Upper

93 100

95 84.0 68.0 102.0

174 96.7 75.8 113.6





#47

Bromodichloromethane

Concen: 18.324 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

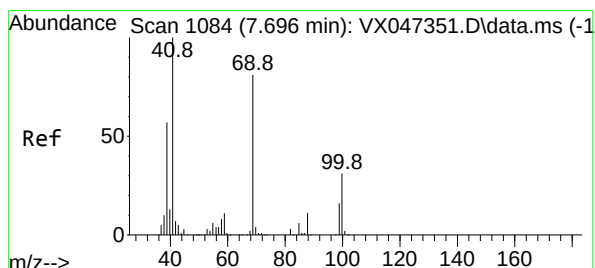
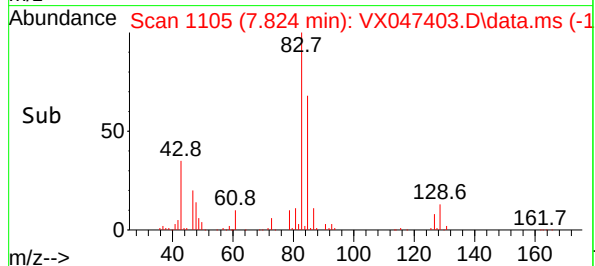
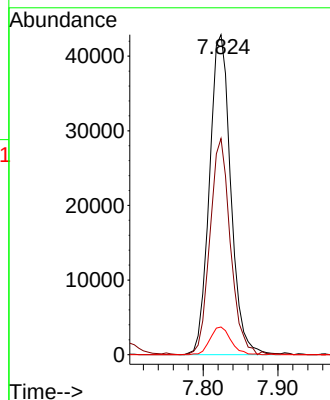
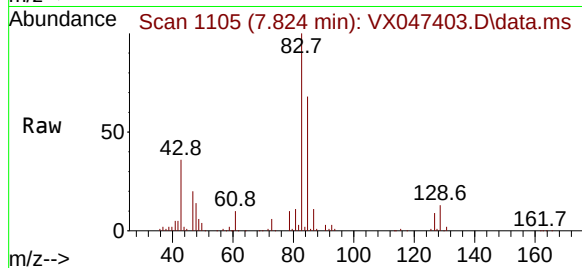
Tgt Ion:	83	Resp:	8491
Ion	Ratio	Lower	Upper
83	100		
85	67.6	51.0	76.6
127	9.6	7.0	10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#48

Methyl methacrylate

Concen: 18.294 ug/l

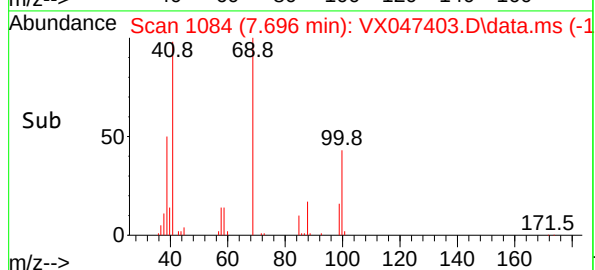
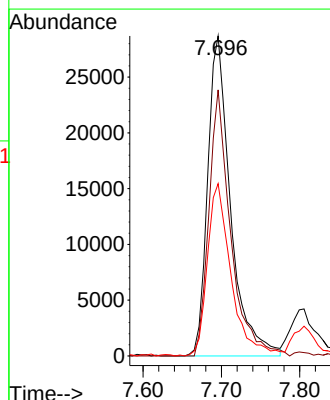
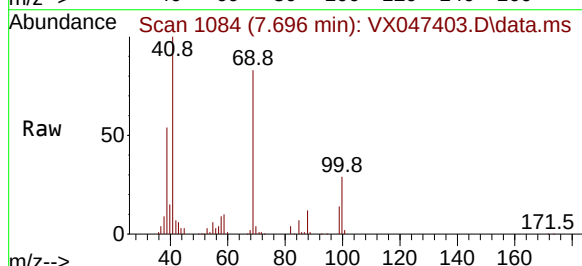
RT: 7.696 min Scan# 1084

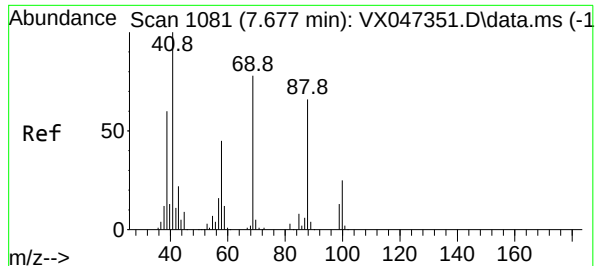
Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	41	Resp:	58149
Ion	Ratio	Lower	Upper
41	100		
69	79.1	65.0	97.4
39	55.7	45.7	68.5





#49

1,4-Dioxane

Concen: 385.469 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.012 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

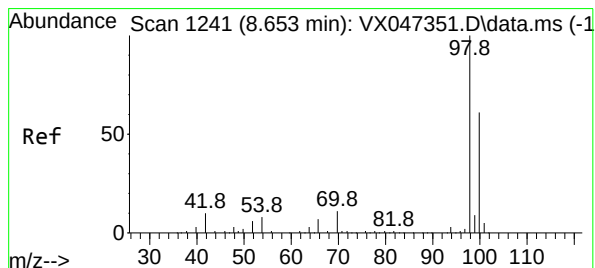
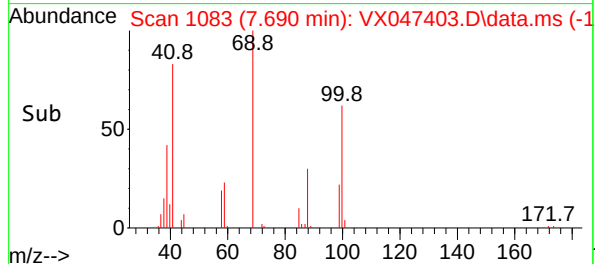
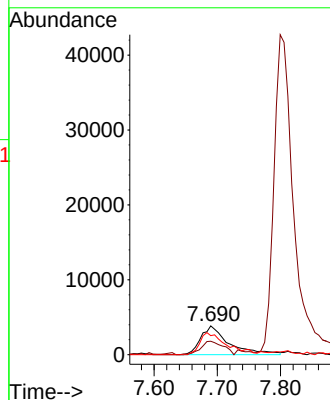
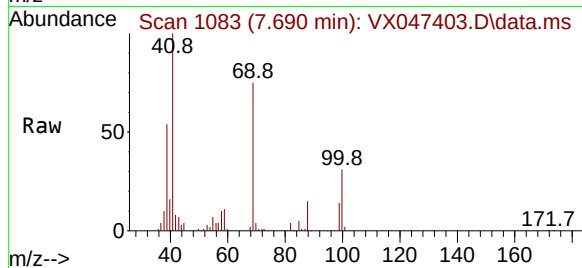
VX0819WBS01

Tgt Ion:	88	Resp:	1191
Ion	Ratio	Lower	Upper
88	100		
43	36.9	32.4	48.6
58	71.5	56.9	85.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#50

Toluene-d8

Concen: 50.555 ug/l

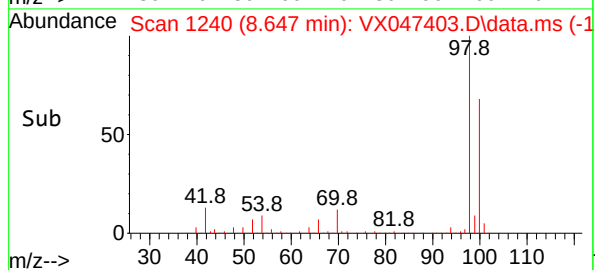
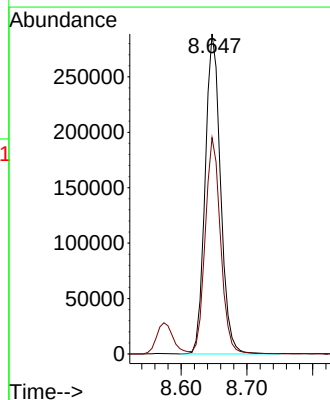
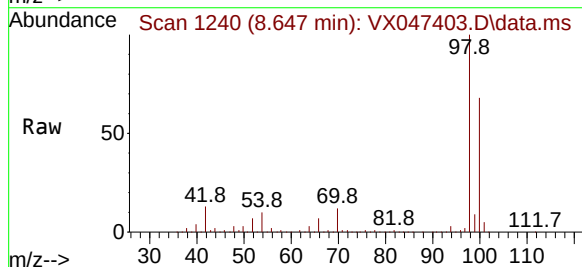
RT: 8.647 min Scan# 1240

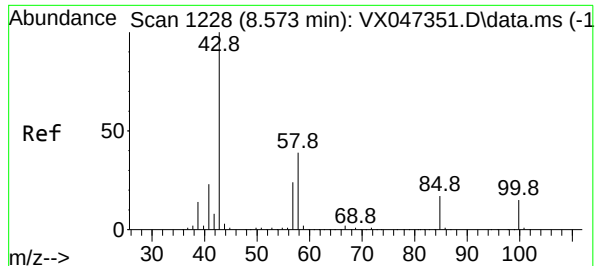
Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	98	Resp:	470012
Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.9	80.9





#51

4-Methyl-2-Pentanone

Concen: 95.733 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 43 Resp: 337359

Ion Ratio Lower Upper

43 100

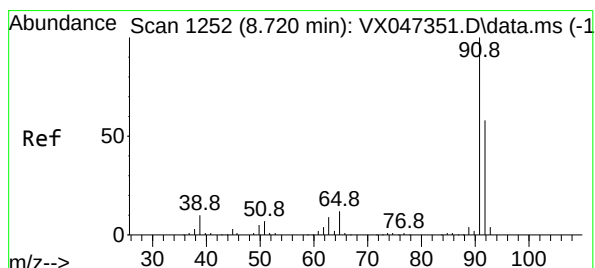
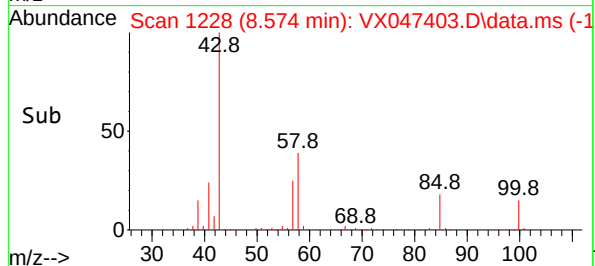
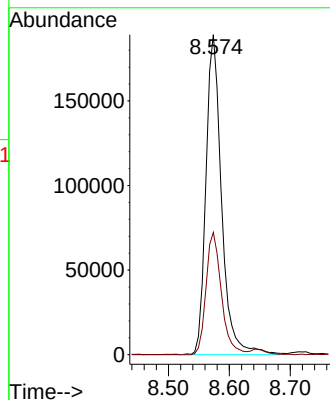
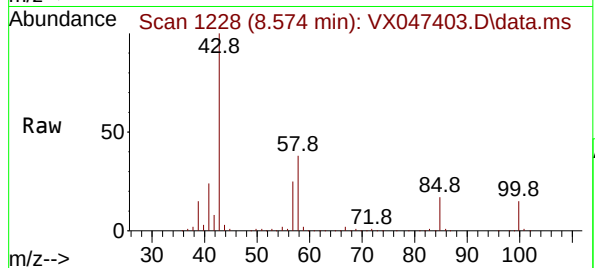
58 37.6 31.2 46.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#52

Toluene

Concen: 18.121 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX047403.D

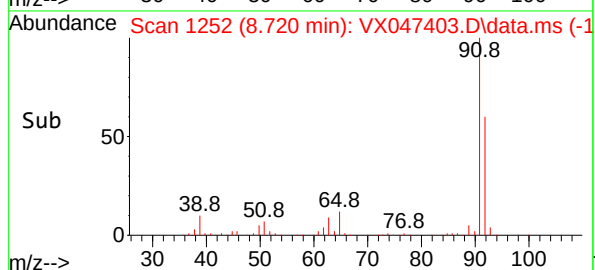
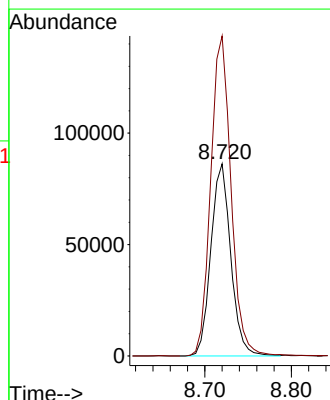
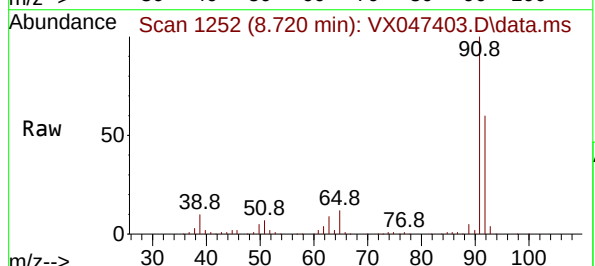
Acq: 19 Aug 2025 11:55

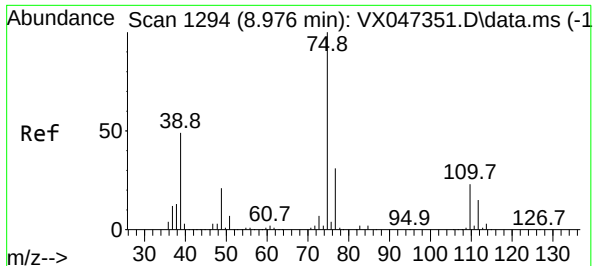
Tgt Ion: 92 Resp: 137617

Ion Ratio Lower Upper

92 100

91 170.4 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 18.711 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 75 Resp: 75672

Ion Ratio Lower Upper

75 100

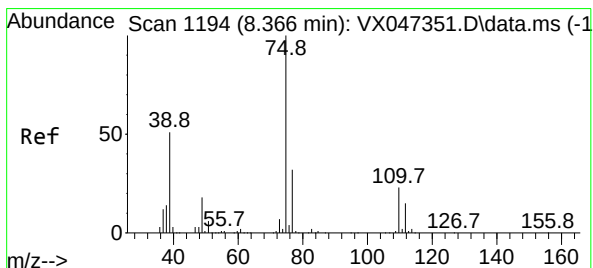
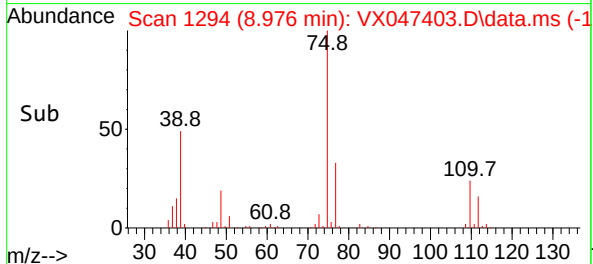
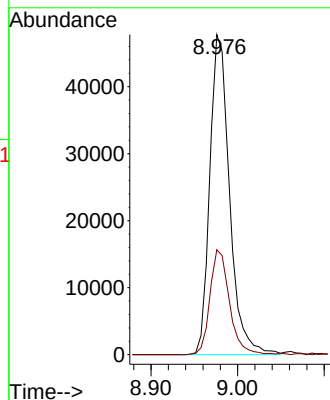
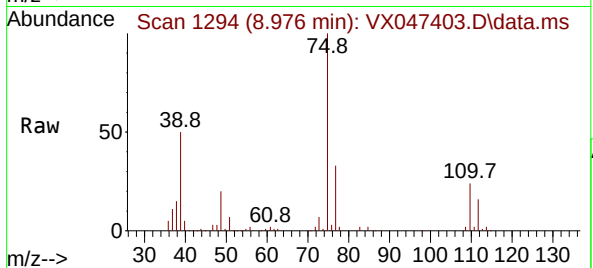
77 32.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#54

cis-1,3-Dichloropropene

Concen: 18.637 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

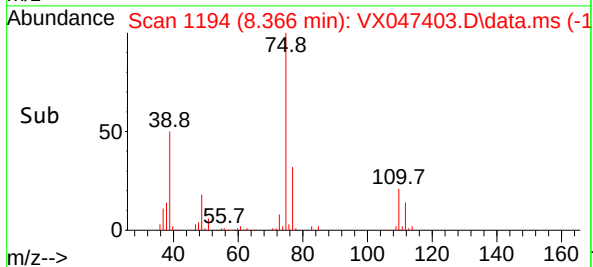
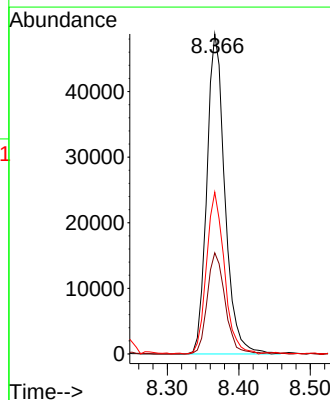
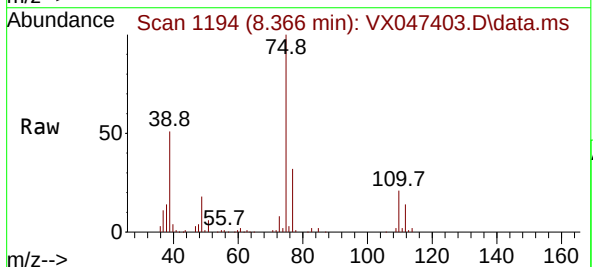
Tgt Ion: 75 Resp: 85316

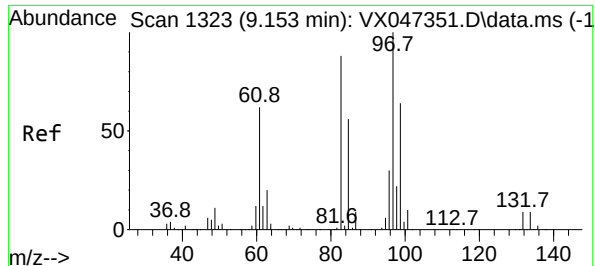
Ion Ratio Lower Upper

75 100

77 31.6 25.6 38.4

39 50.3 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 18.834 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 97 Resp: 54300

Ion Ratio Lower Upper

97 100

83 88.6 70.6 106.0

85 55.4 44.7 67.1

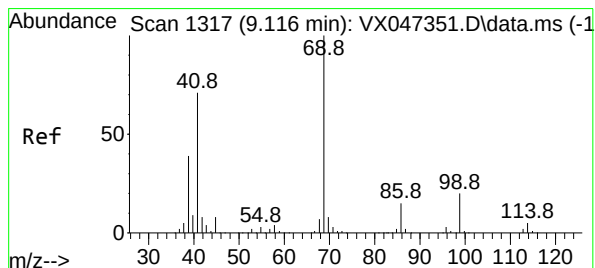
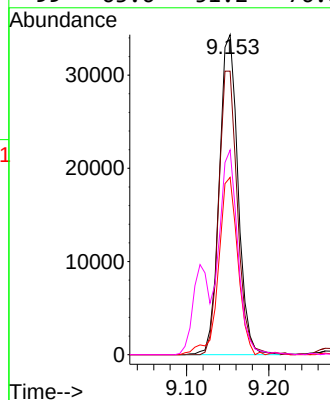
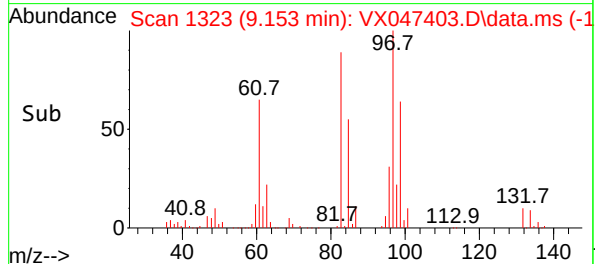
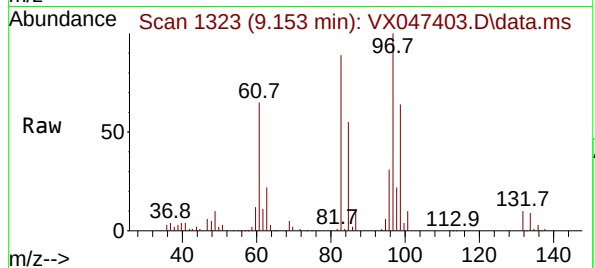
99 63.6 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#56

Ethyl methacrylate

Concen: 17.930 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

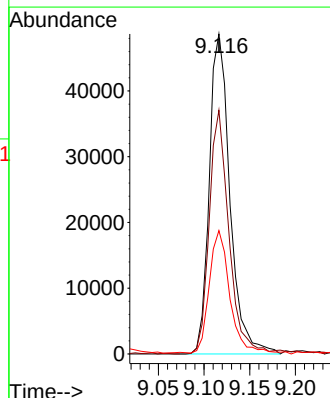
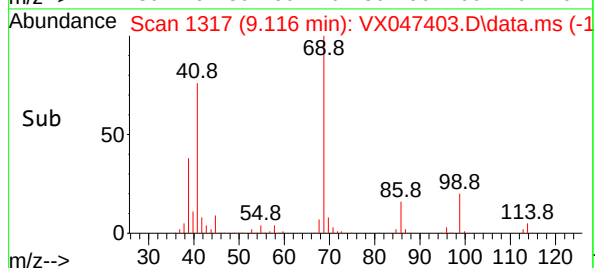
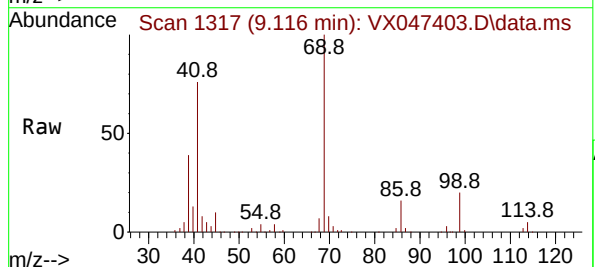
Tgt Ion: 69 Resp: 76225

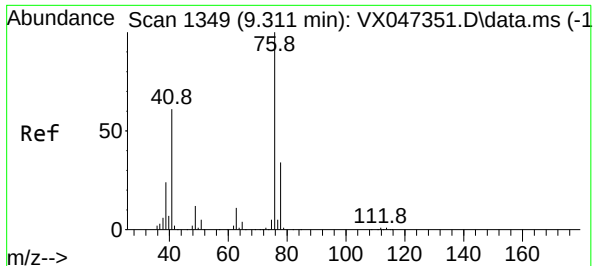
Ion Ratio Lower Upper

69 100

41 72.6 55.3 82.9

39 39.3 30.2 45.2





#57

1,3-Dichloropropane

Concen: 19.235 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 76 Resp: 94500

Ion Ratio Lower Upper

76 100

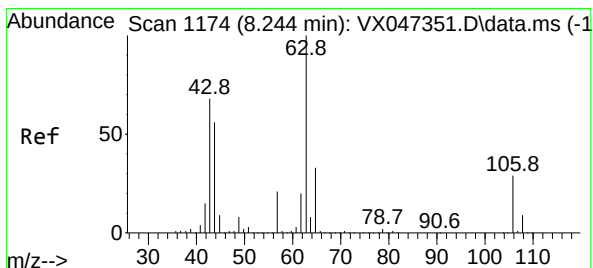
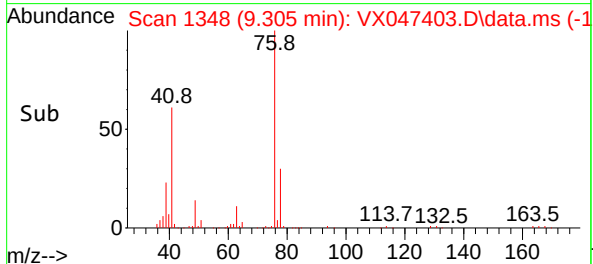
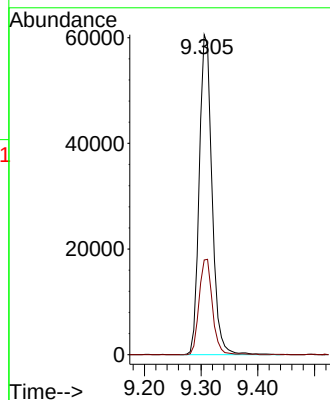
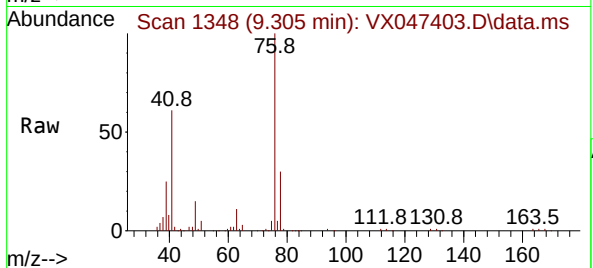
78 30.9 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#58

2-Chloroethyl Vinyl ether

Concen: 100.929 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX047403.D

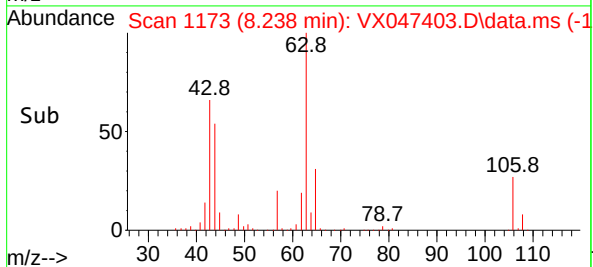
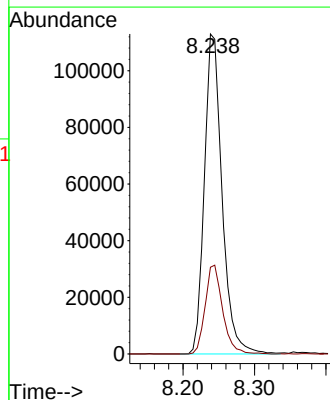
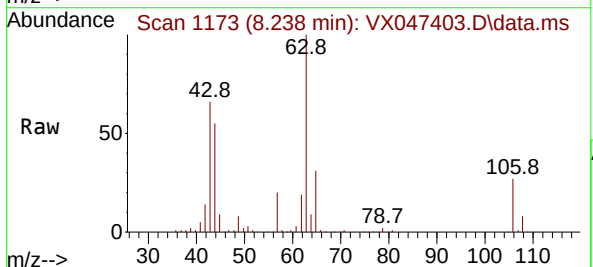
Acq: 19 Aug 2025 11:55

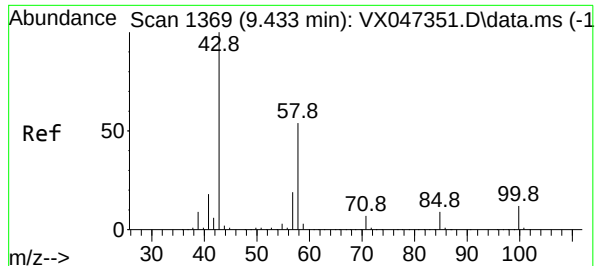
Tgt Ion: 63 Resp: 194420

Ion Ratio Lower Upper

63 100

106 27.3 22.8 34.2





#59

2-Hexanone

Concen: 97.292 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 43 Resp: 237159

Ion Ratio Lower Upper

43 100

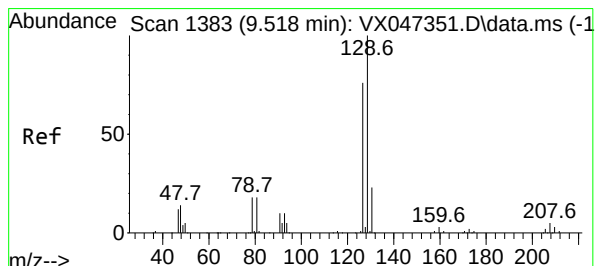
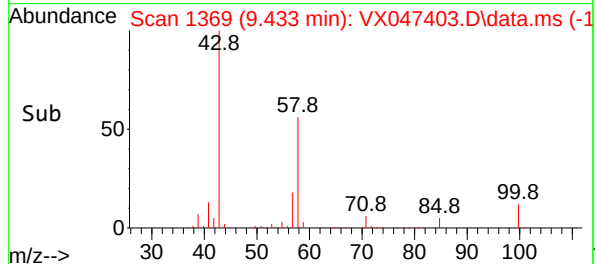
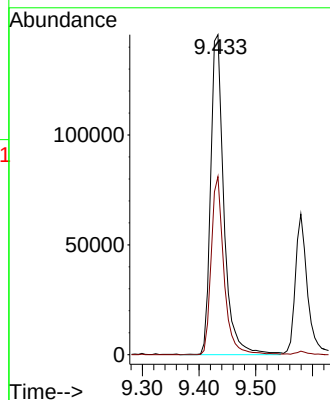
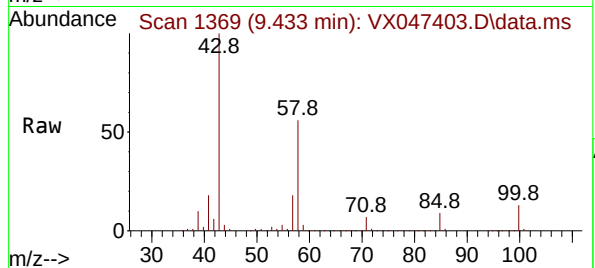
58 53.6 26.9 80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#60

Dibromochloromethane

Concen: 18.814 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047403.D

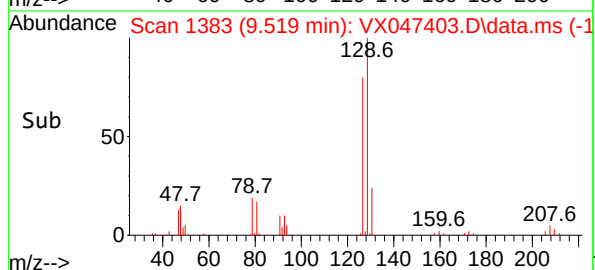
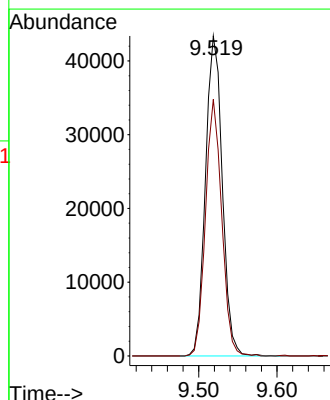
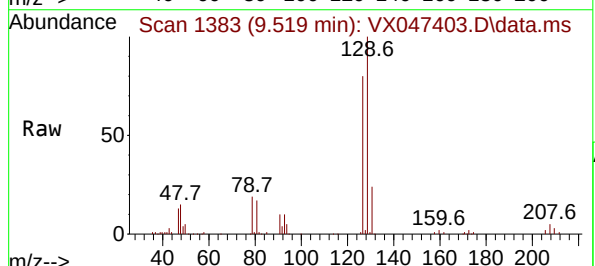
Acq: 19 Aug 2025 11:55

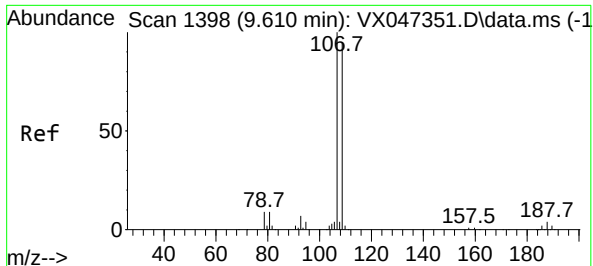
Tgt Ion:129 Resp: 64471

Ion Ratio Lower Upper

129 100

127 77.4 38.9 116.6





#61

1,2-Dibromoethane

Concen: 18.705 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion:107 Resp: 55618

Ion Ratio Lower Upper

107 100

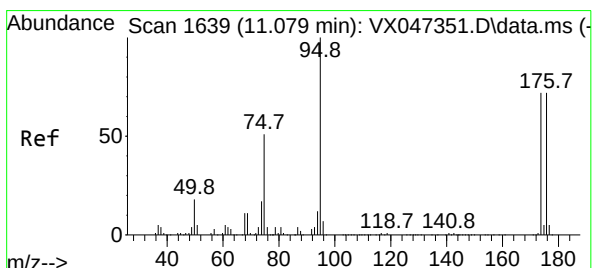
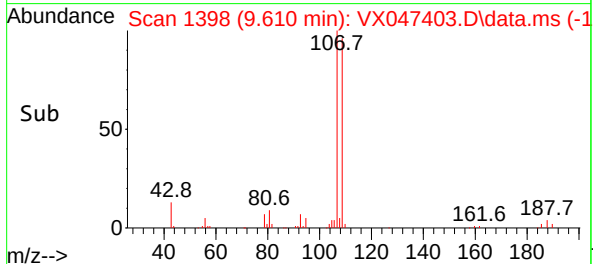
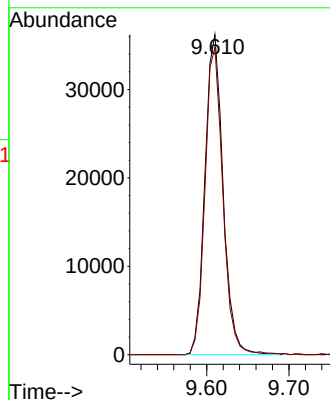
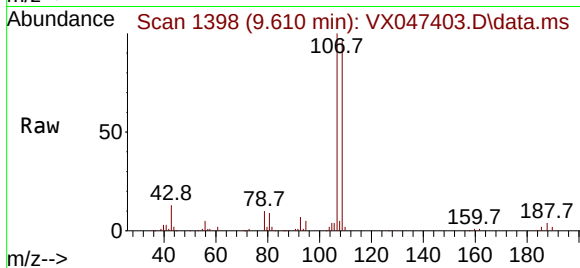
109 94.5 76.2 114.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#62

4-Bromofluorobenzene

Concen: 52.762 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

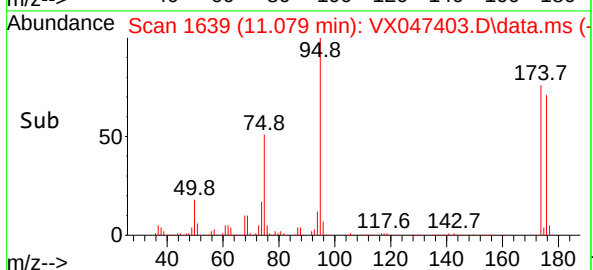
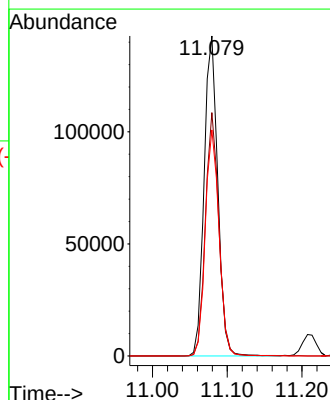
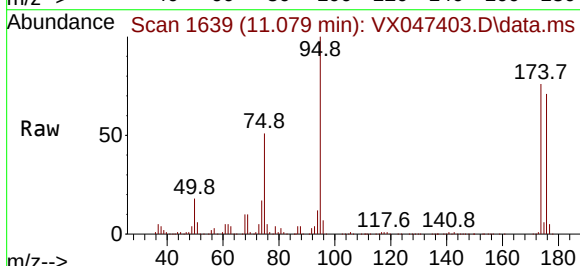
Tgt Ion: 95 Resp: 181013

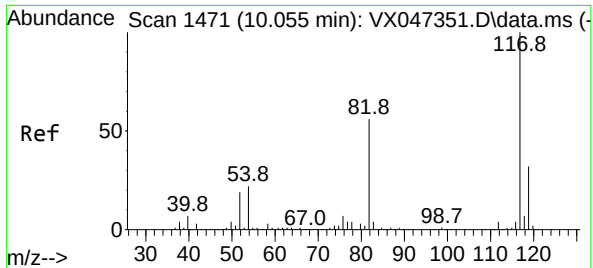
Ion Ratio Lower Upper

95 100

174 74.6 0.0 148.0

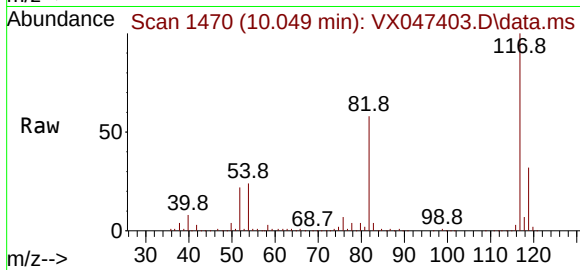
176 71.1 0.0 145.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

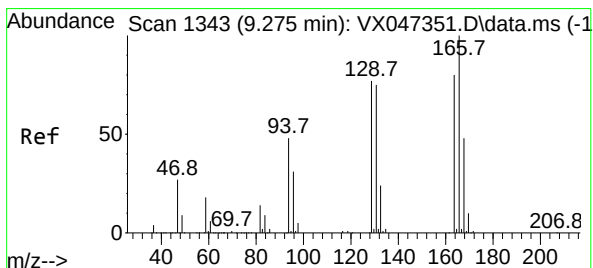
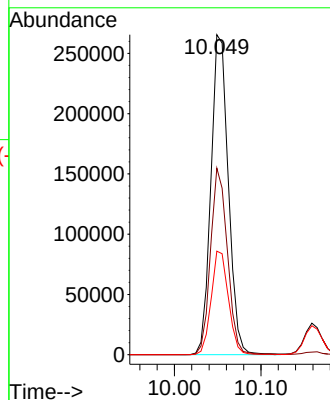
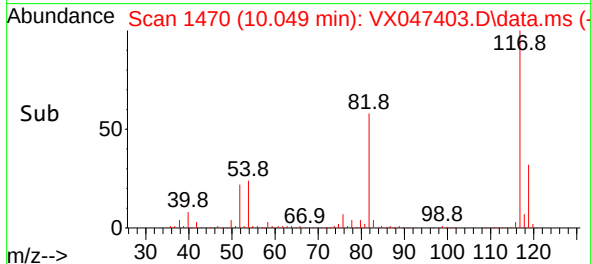
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



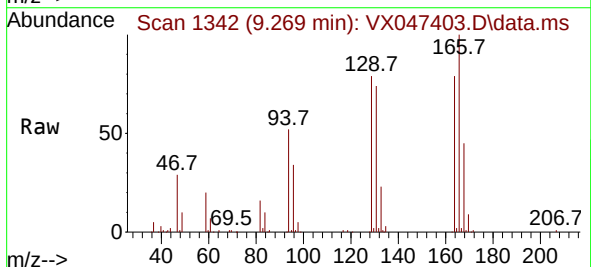
Tgt Ion:117 Resp: 37096
Ion Ratio Lower Upper
117 100
82 58.3 45.0 67.4
119 32.4 25.8 38.8

Manual Integrations
APPROVED

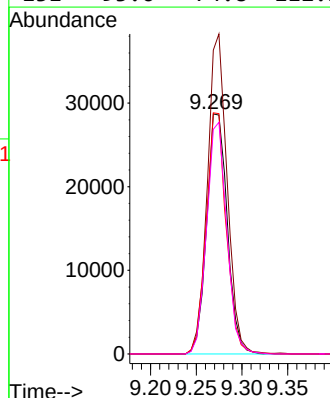
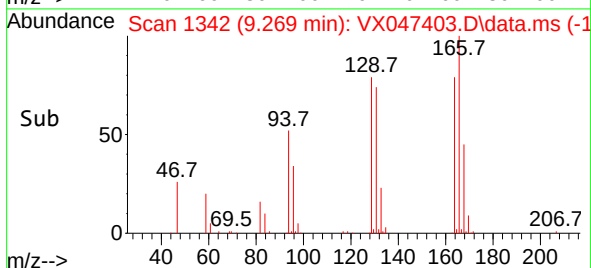
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

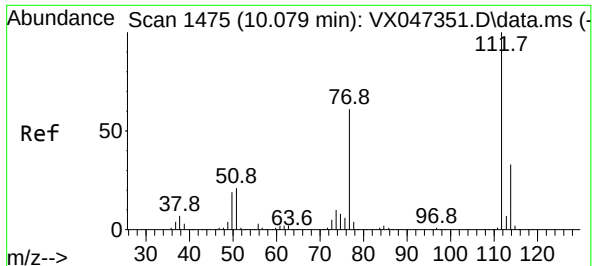


#64
Tetrachloroethene
Concen: 16.708 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55



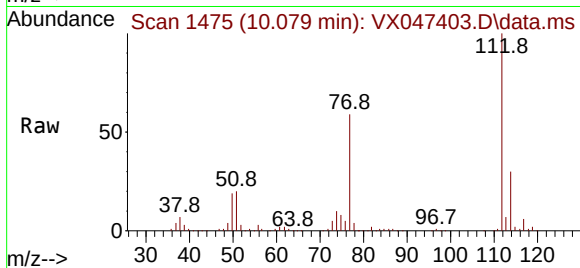
Tgt Ion:164 Resp: 44832
Ion Ratio Lower Upper
164 100
166 126.6 100.3 150.5
129 100.5 77.7 116.5
131 93.6 74.8 112.2





#65
Chlorobenzene
Concen: 17.585 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

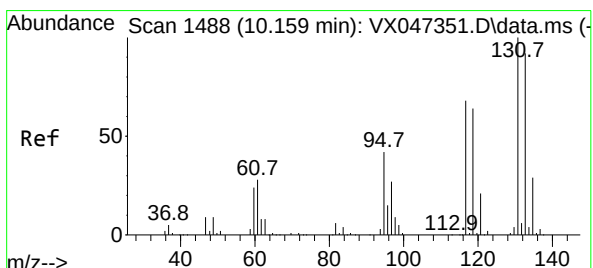
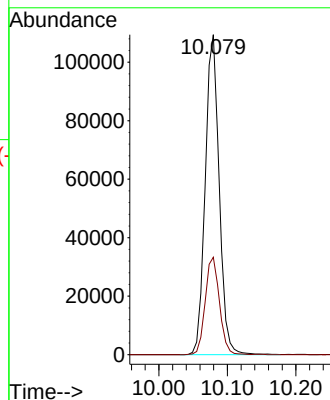
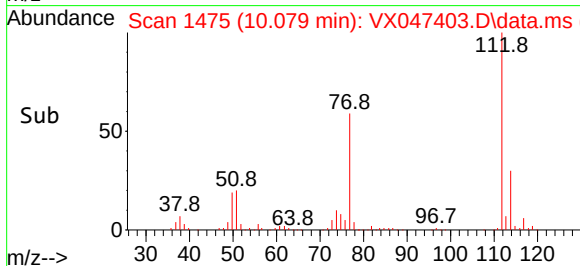
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



Tgt Ion:112 Resp: 15502
Ion Ratio Lower Upper
112 100
114 30.5 26.4 39.6

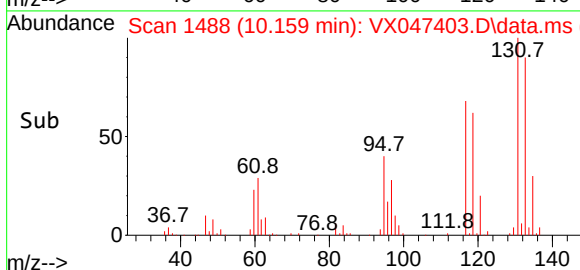
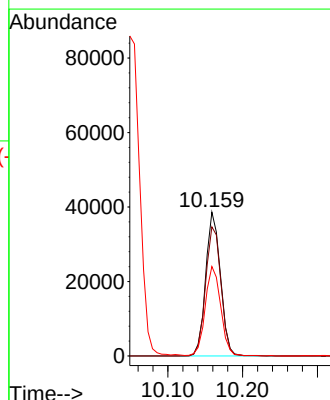
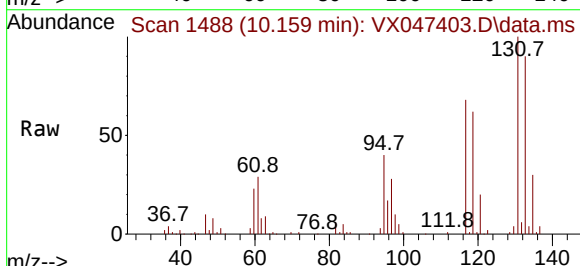
Manual Integrations
APPROVED

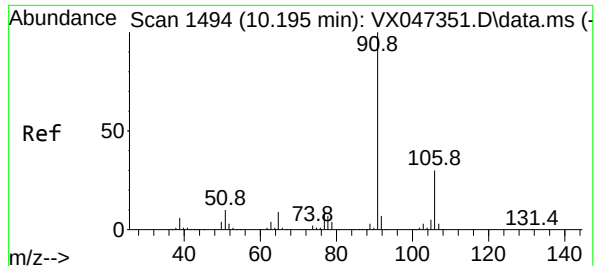
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 17.822 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

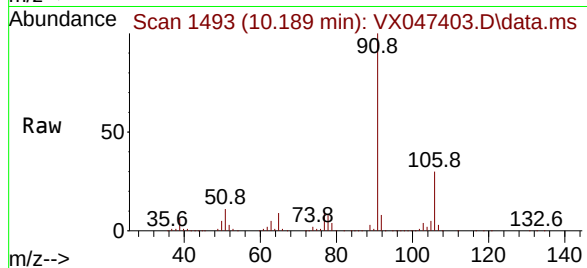
Tgt Ion:131 Resp: 53110
Ion Ratio Lower Upper
131 100
133 93.3 47.6 142.9
119 65.0 32.3 96.8





#67
Ethyl Benzene
Concen: 17.094 ug/l
RT: 10.189 min Scan# 1494
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

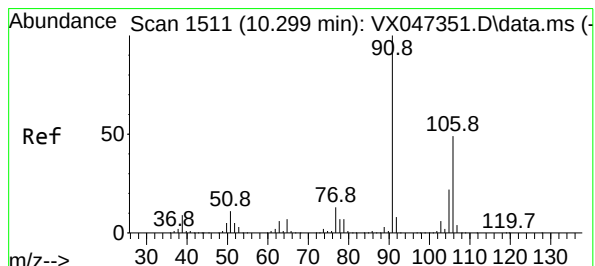
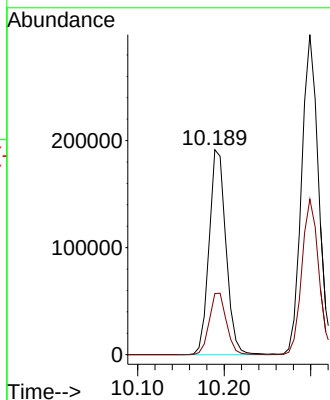
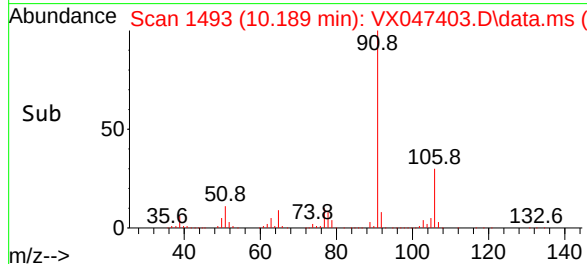
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



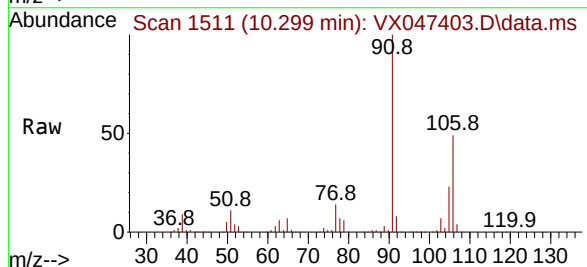
Tgt Ion: 91 Resp: 259370
Ion Ratio Lower Upper
91 100
106 29.8 24.4 36.6

Manual Integrations
APPROVED

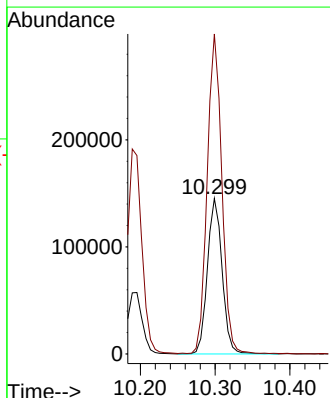
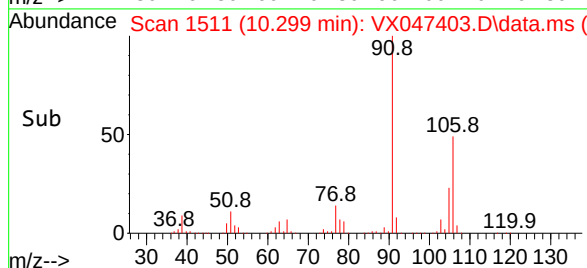
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

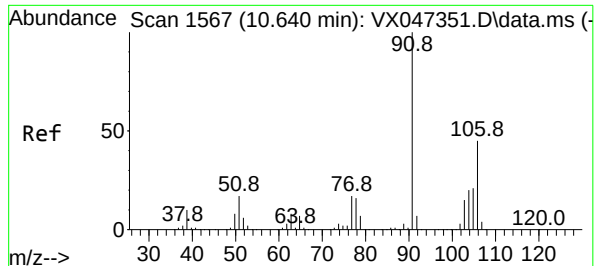


#68
m/p-Xylenes
Concen: 35.129 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55



Tgt Ion:106 Resp: 198745
Ion Ratio Lower Upper
106 100
91 205.9 164.7 247.1





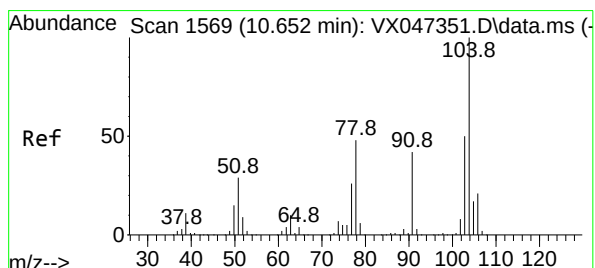
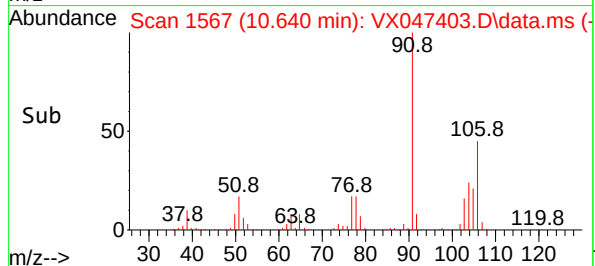
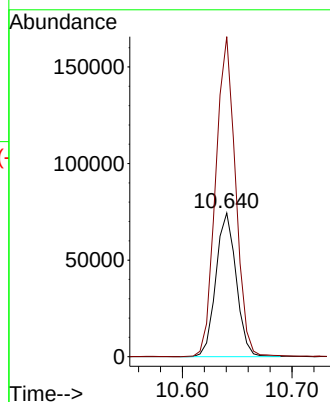
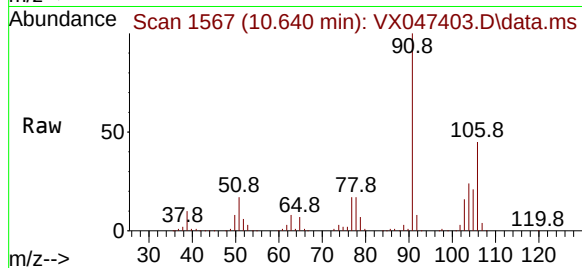
#69
o-Xylene
Concen: 17.591 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:106 Resp: 9577
Ion Ratio Lower Upper
106 100
91 219.2 110.6 331.8

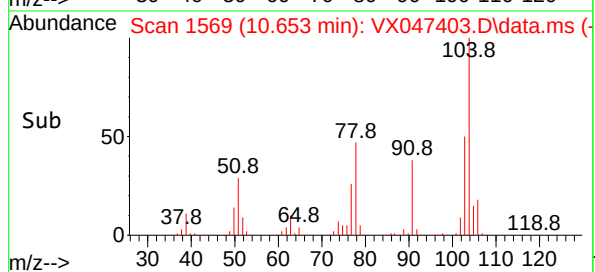
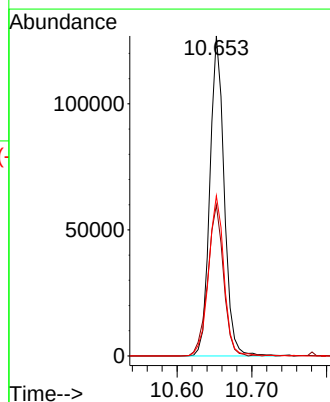
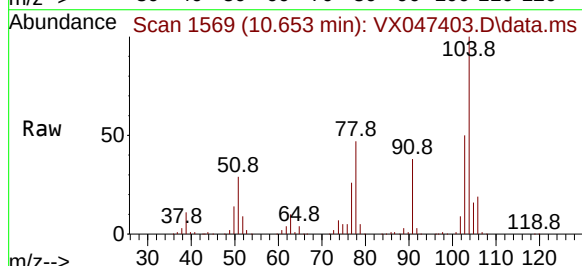
Manual Integrations
APPROVED

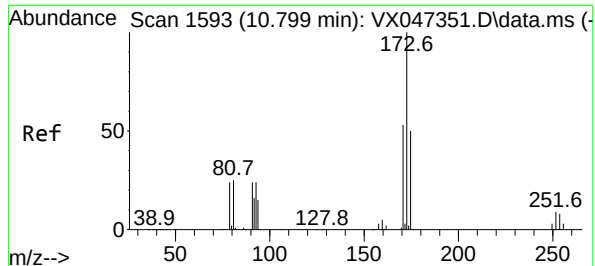
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#70
Styrene
Concen: 18.349 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

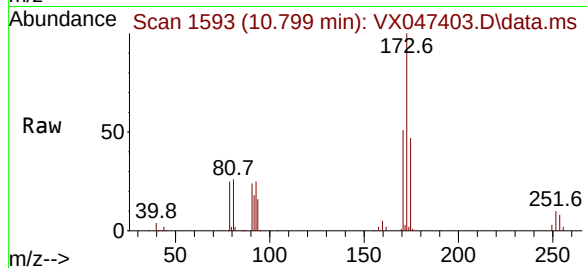
Tgt Ion:104 Resp: 168799
Ion Ratio Lower Upper
104 100
78 51.9 41.8 62.8
103 53.8 43.6 65.4





#71
Bromoform
Concen: 17.946 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

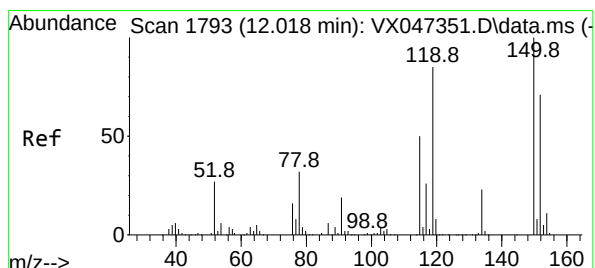
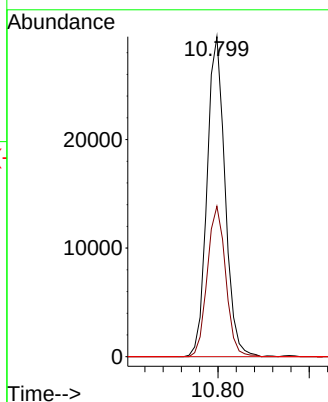
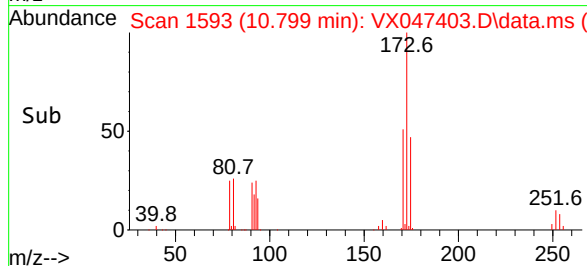
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



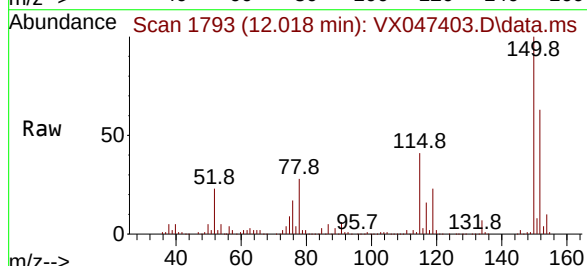
Tgt Ion:173 Resp: 4017
Ion Ratio Lower Upper
173 100
175 48.0 24.4 73.4
254 0.0 0.1 0.1

Manual Integrations
APPROVED

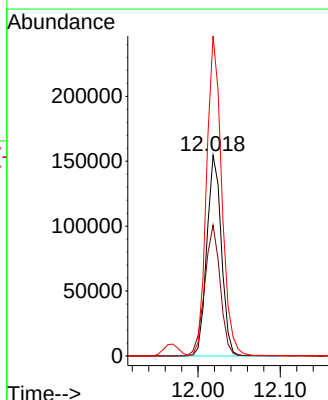
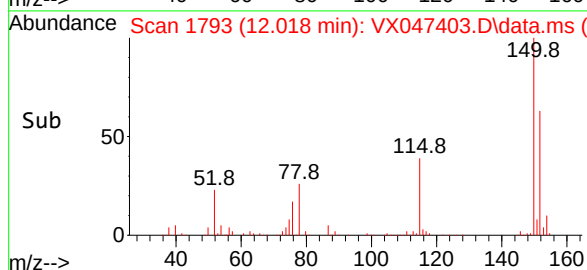
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

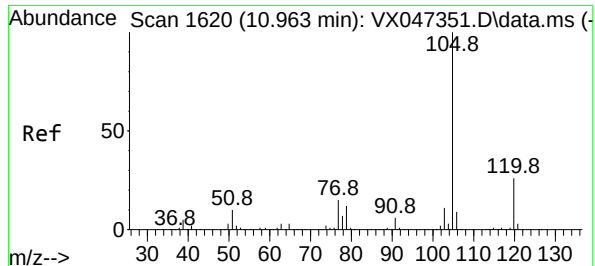


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55



Tgt Ion:152 Resp: 189862
Ion Ratio Lower Upper
152 100
115 69.8 44.6 133.8
150 165.4 0.0 349.8





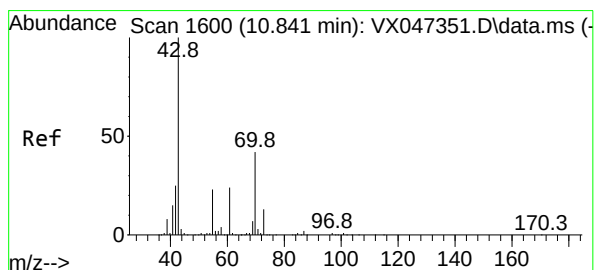
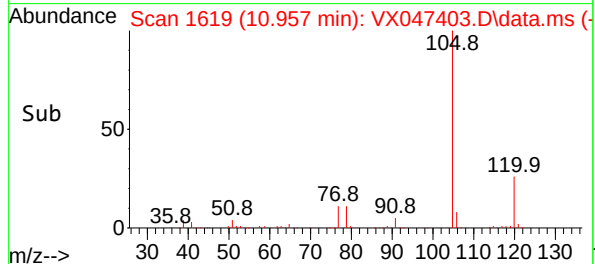
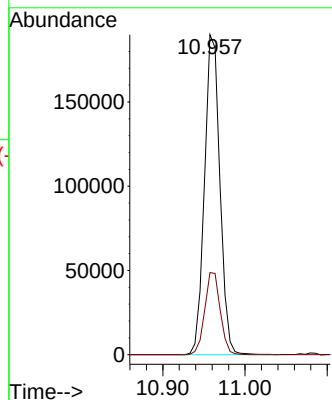
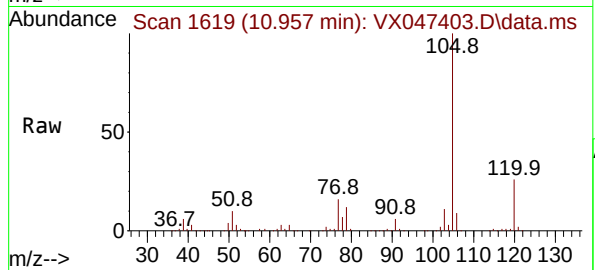
#73
Isopropylbenzene
Concen: 16.649 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion:105 Resp: 247370
Ion Ratio Lower Upper
105 100
120 25.9 12.9 38.6

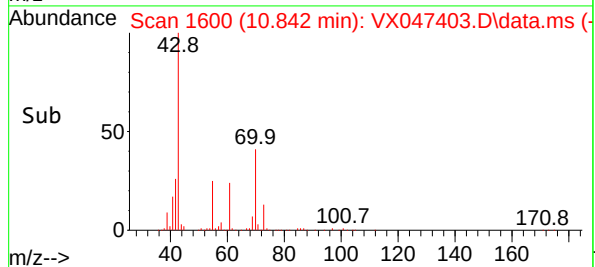
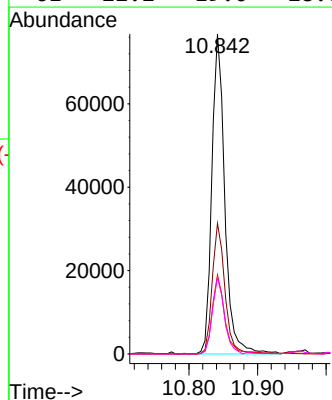
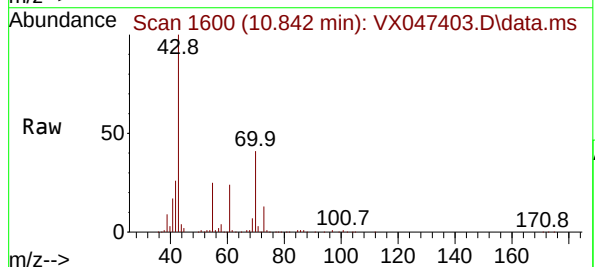
Manual Integrations
APPROVED

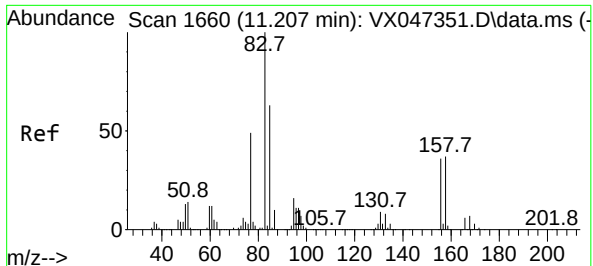
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#74
N-ethyl acetate
Concen: 17.893 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Tgt Ion: 43 Resp: 100954
Ion Ratio Lower Upper
43 100
70 40.0 33.1 49.7
55 24.3 19.0 28.6
61 22.2 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 18.037 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

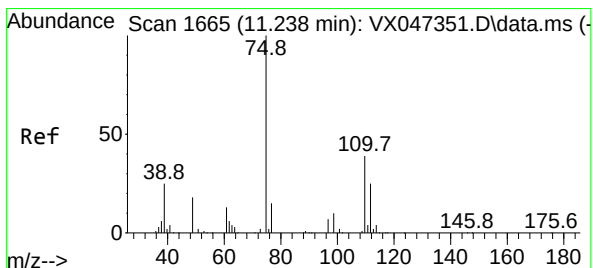
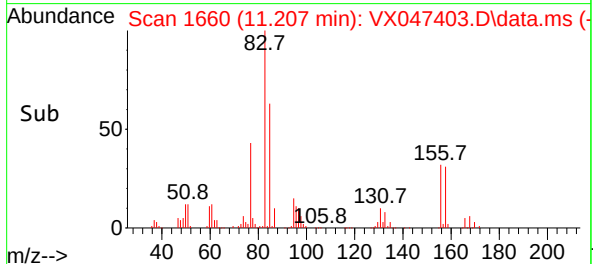
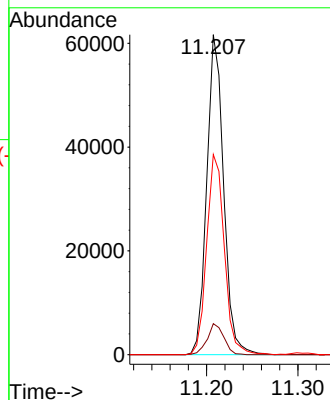
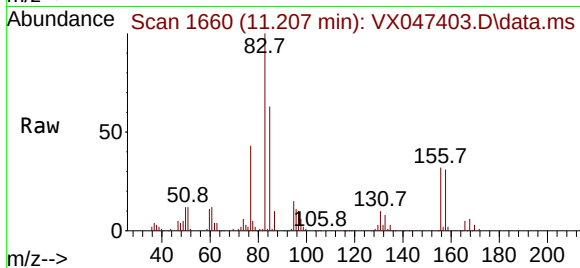
Tgt Ion:	83	Resp:	7868
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.0	15.0
85	65.6	31.7	95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#76

1,2,3-Trichloropropane

Concen: 16.468 ug/l m

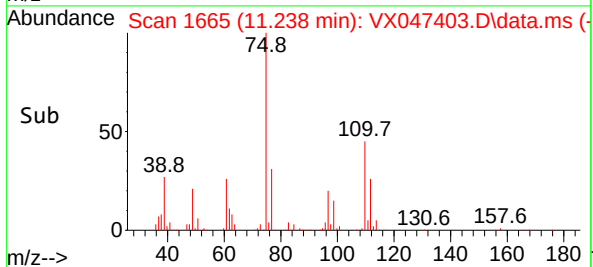
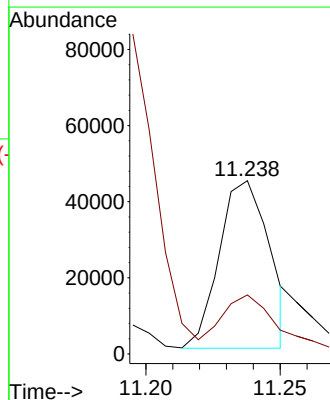
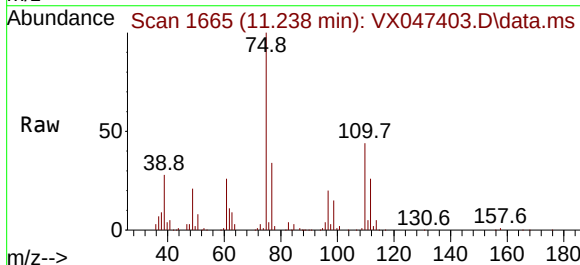
RT: 11.238 min Scan# 1665

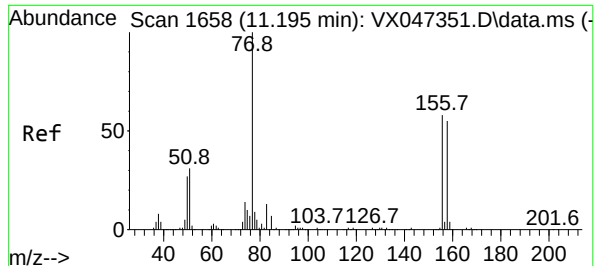
Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	75	Resp:	57347
Ion Ratio	Lower	Upper	
75	100		
77	41.4	19.4	58.2





#77

Bromobenzene

Concen: 17.636 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

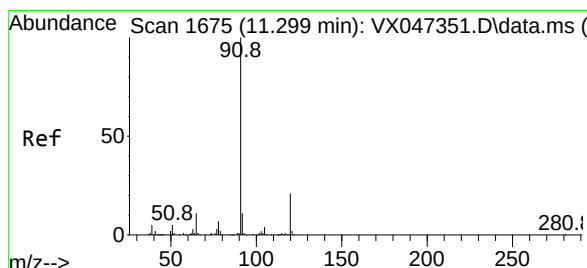
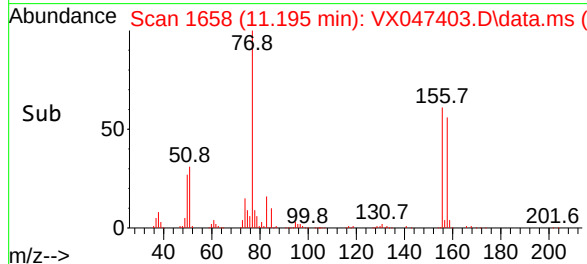
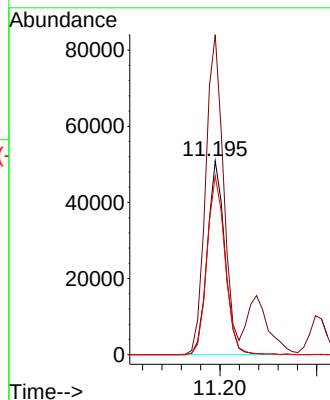
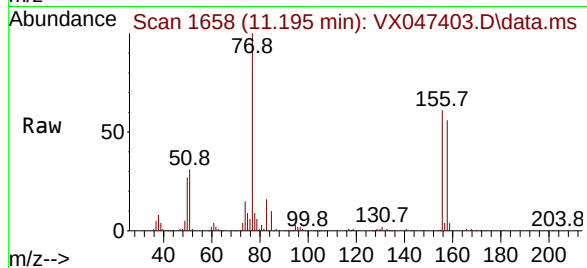
Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion:	156	Resp:	63980
Ion Ratio	Lower	Upper	
156	100		
77	168.8	86.3	258.9
158	95.4	48.0	144.2

Manual Integrations
APPROVEDReviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

#78

n-propylbenzene

Concen: 16.657 ug/l

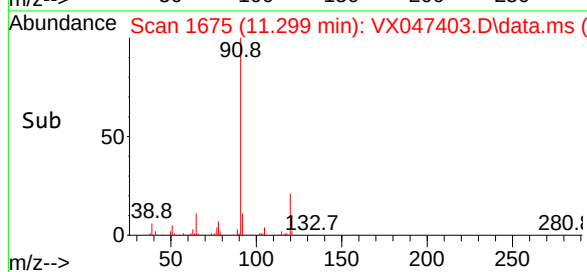
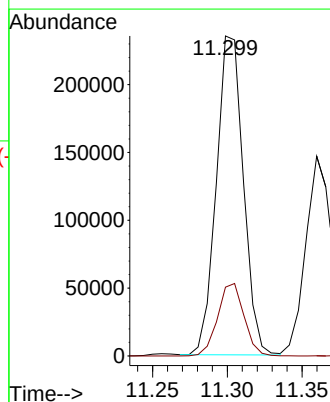
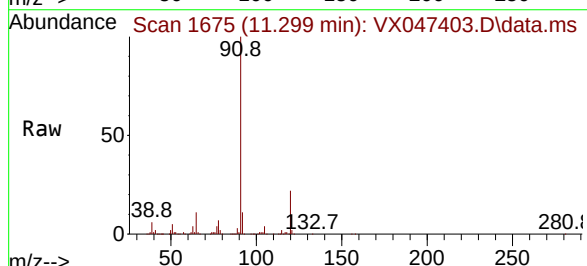
RT: 11.299 min Scan# 1675

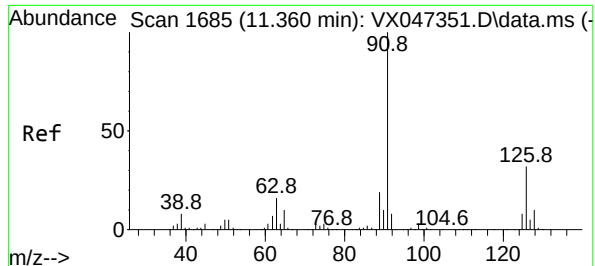
Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	91	Resp:	295566
Ion Ratio	Lower	Upper	
91	100		
120	22.2	11.0	33.0





#79

2-Chlorotoluene

Concen: 17.013 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 91 Resp: 182492

Ion Ratio Lower Upper

91 100

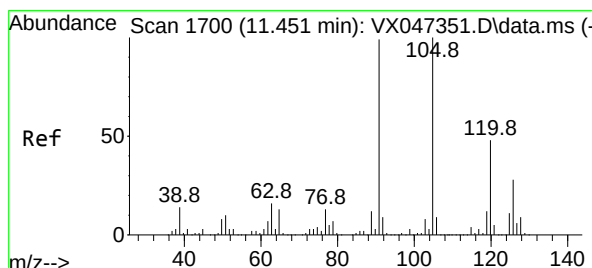
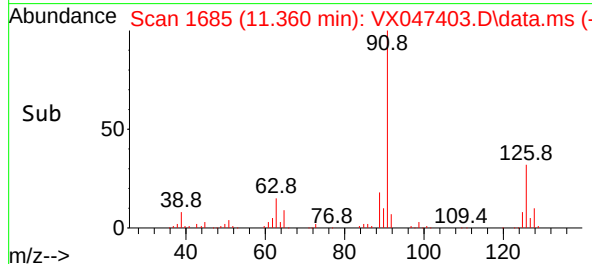
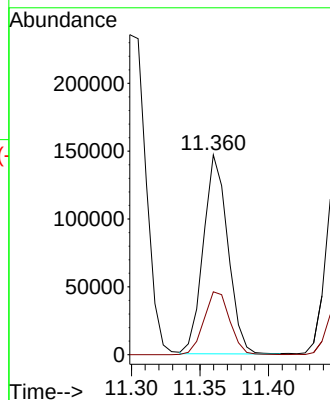
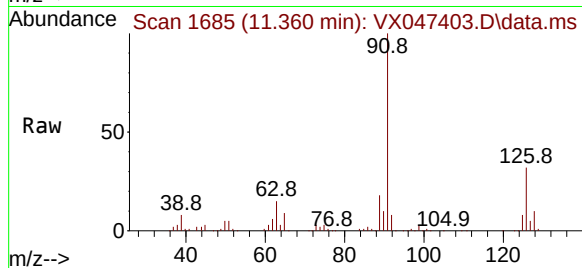
126 33.5 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#80

1,3,5-Trimethylbenzene

Concen: 16.900 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX047403.D

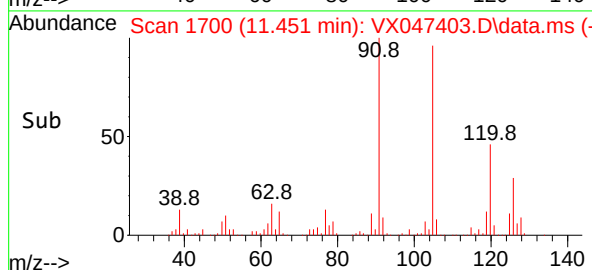
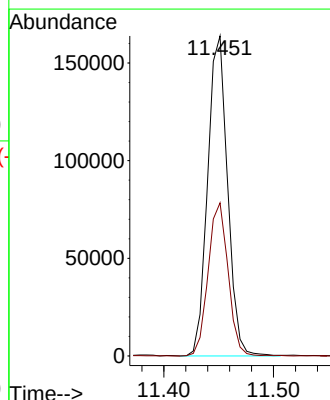
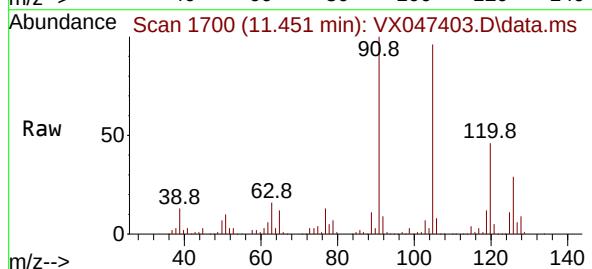
Acq: 19 Aug 2025 11:55

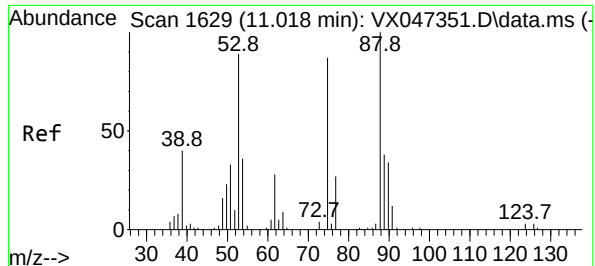
Tgt Ion:105 Resp: 206597

Ion Ratio Lower Upper

105 100

120 48.0 23.9 71.7





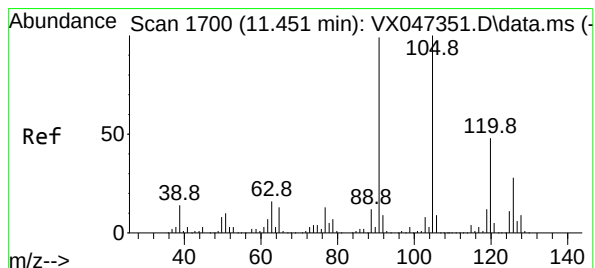
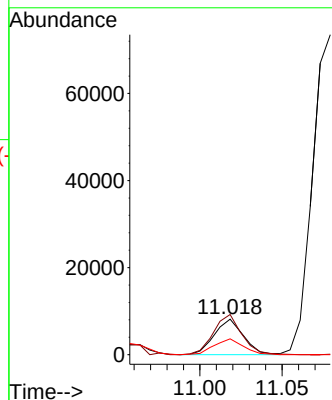
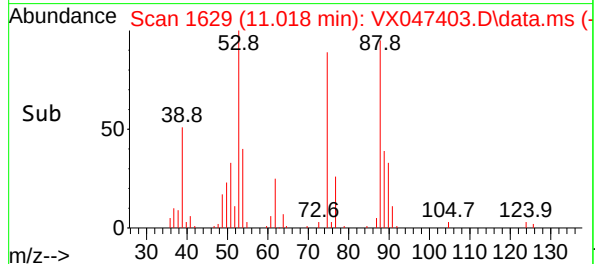
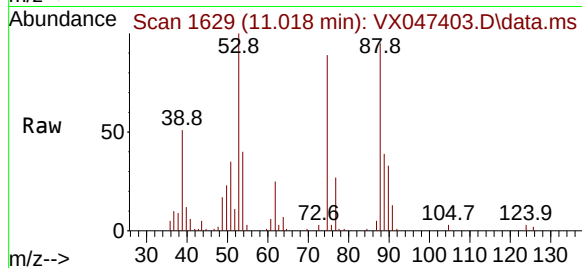
#81
trans-1,4-Dichloro-2-butene
Concen: 18.529 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Tgt Ion: 75 Resp: 10138
Ion Ratio Lower Upper
75 100
53 109.6 85.2 127.8
89 44.5 36.7 55.1

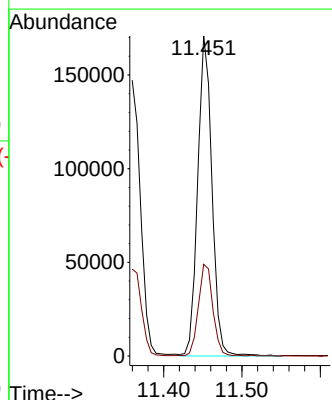
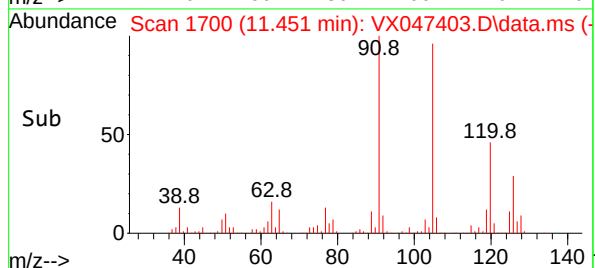
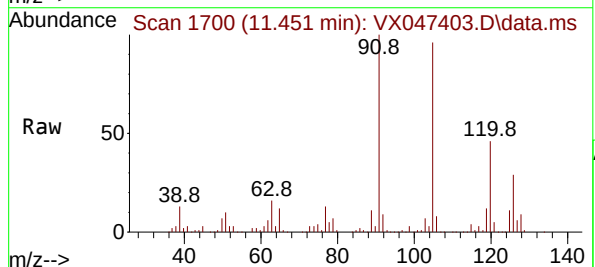
Manual Integrations
APPROVED

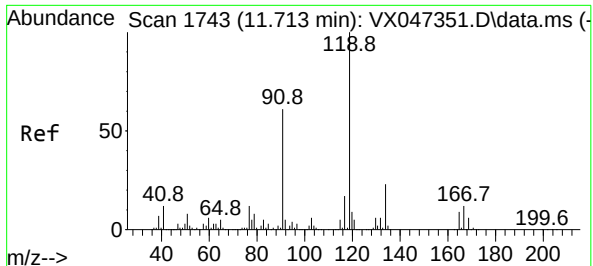
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#82
4-Chlorotoluene
Concen: 17.112 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

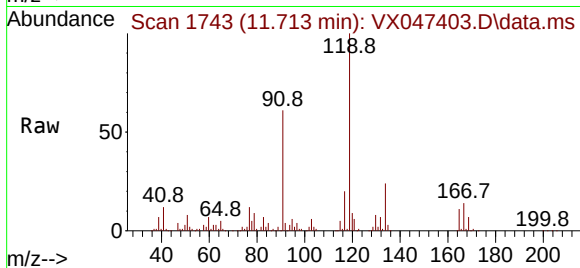
Tgt Ion: 91 Resp: 216373
Ion Ratio Lower Upper
91 100
126 28.9 14.4 43.0





#83
tert-Butylbenzene
Concen: 16.671 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

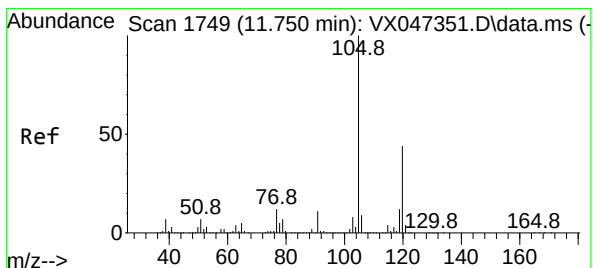
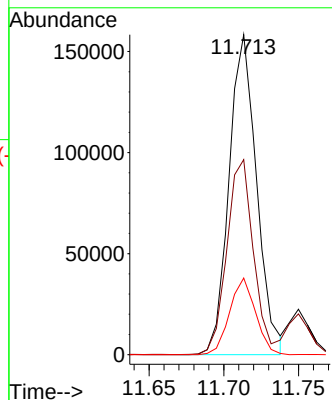
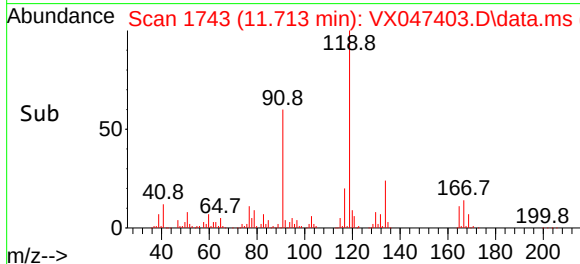
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



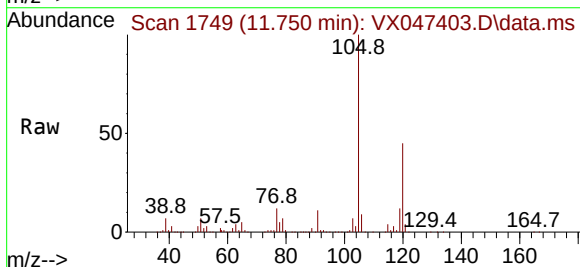
Tgt Ion:119 Resp: 203328
Ion Ratio Lower Upper
119 100
91 58.3 29.1 87.4
134 22.5 11.3 33.9

Manual Integrations
APPROVED

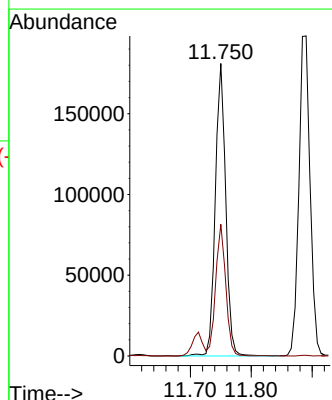
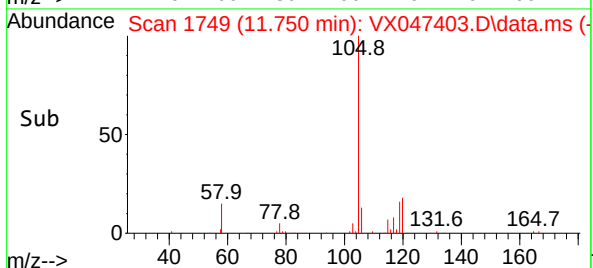
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

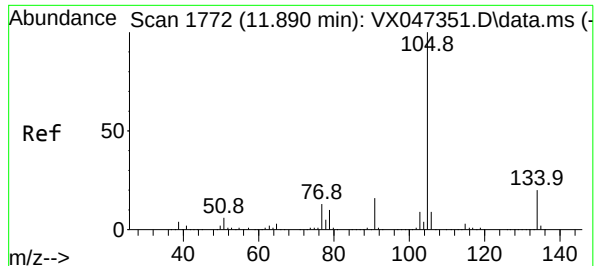


#84
1,2,4-Trimethylbenzene
Concen: 17.518 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55



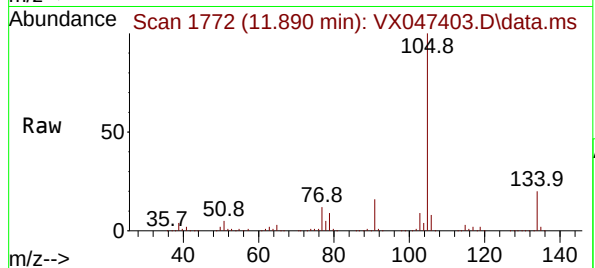
Tgt Ion:105 Resp: 214157
Ion Ratio Lower Upper
105 100
120 43.8 21.9 65.7





#85
sec-Butylbenzene
Concen: 16.867 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

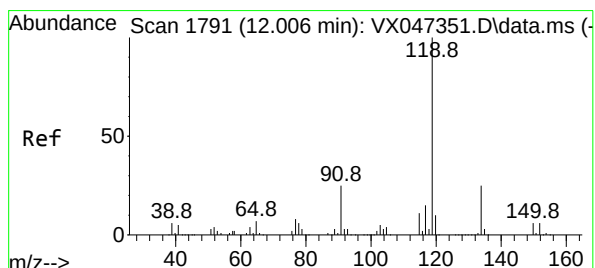
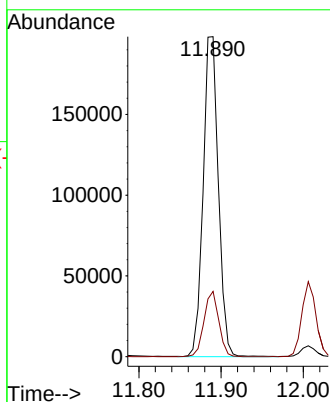
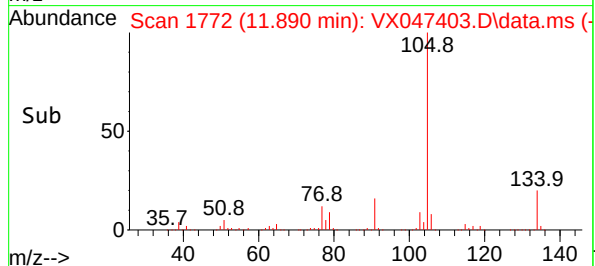
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



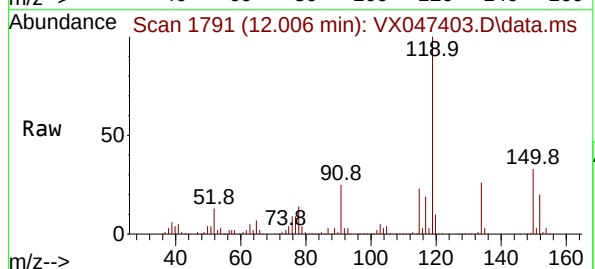
Tgt Ion:105 Resp: 25497
Ion Ratio Lower Upper
105 100
134 19.8 9.8 29.5

Manual Integrations
APPROVED

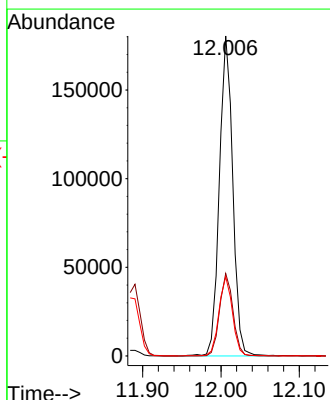
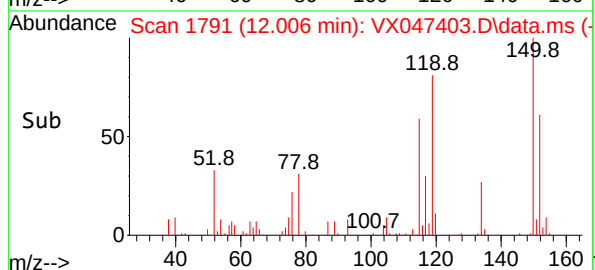
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

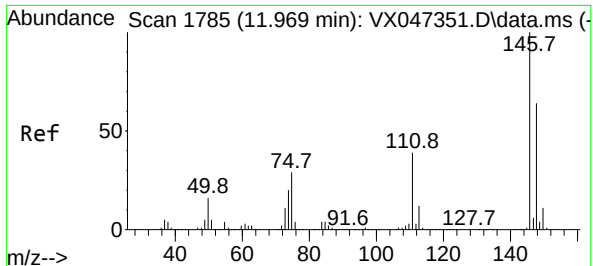


#86
p-Isopropyltoluene
Concen: 16.772 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55



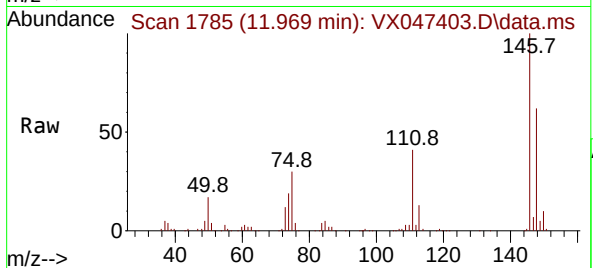
Tgt Ion:119 Resp: 214549
Ion Ratio Lower Upper
119 100
134 25.8 12.8 38.4
91 25.1 12.4 37.4





#87
1,3-Dichlorobenzene
Concen: 17.156 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

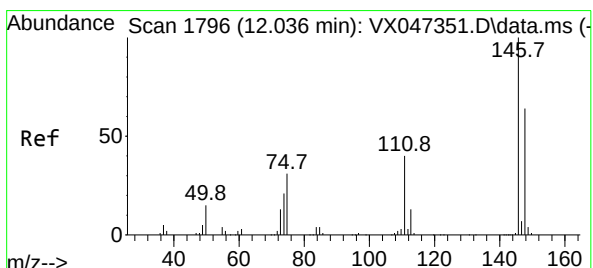
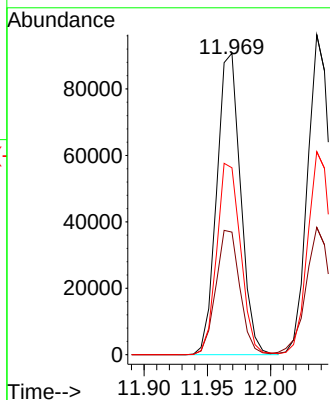
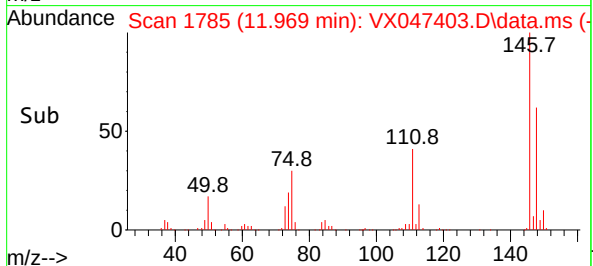
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



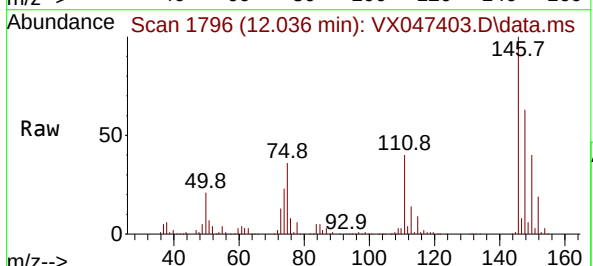
Tgt Ion:146 Resp: 11890
Ion Ratio Lower Upper
146 100
111 41.4 20.6 61.8
148 63.5 31.9 95.5

Manual Integrations
APPROVED

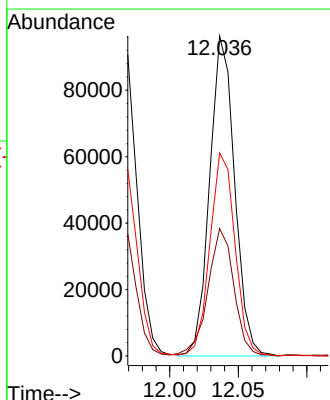
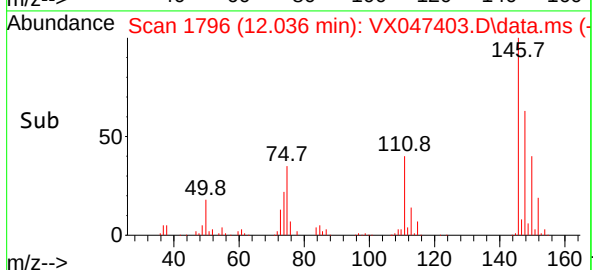
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

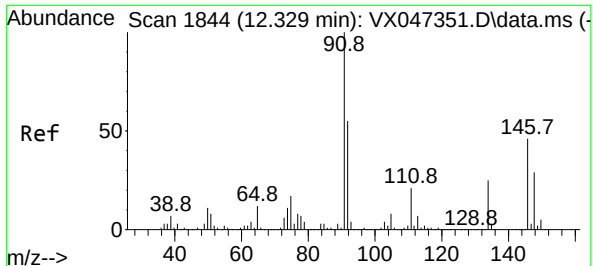


#88
1,4-Dichlorobenzene
Concen: 17.126 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55



Tgt Ion:146 Resp: 122086
Ion Ratio Lower Upper
146 100
111 41.8 20.4 61.2
148 64.0 31.7 95.1





#89

n-Butylbenzene

Concen: 16.594 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion: 91 Resp: 19743

Ion Ratio Lower Upper

91 100

92 53.9 27.2 81.5

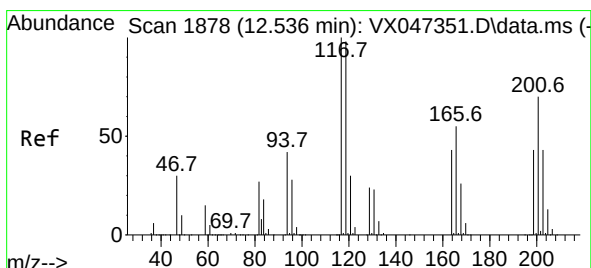
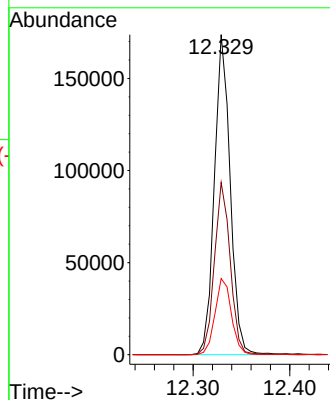
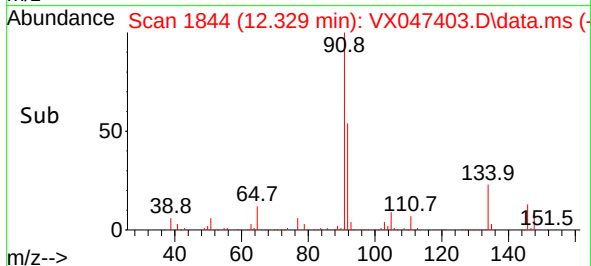
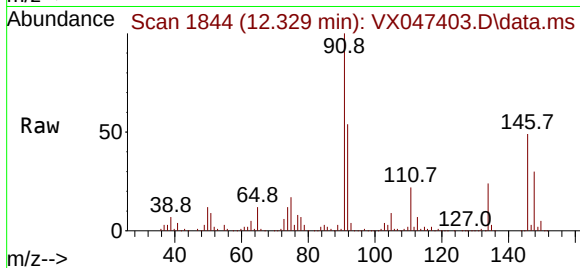
134 24.9 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#90

Hexachloroethane

Concen: 15.980 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047403.D

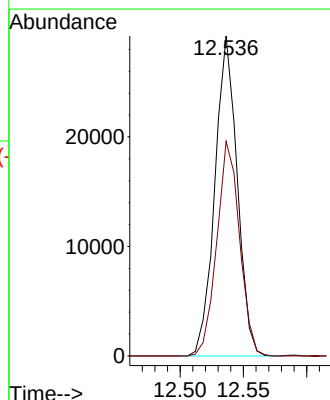
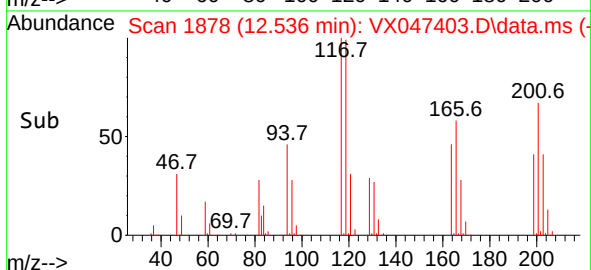
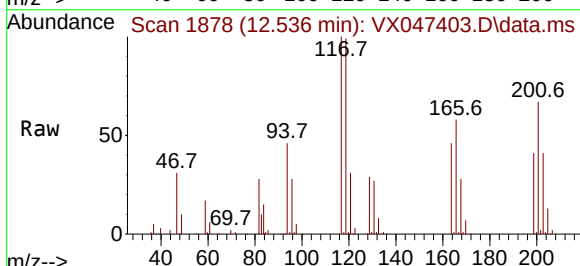
Acq: 19 Aug 2025 11:55

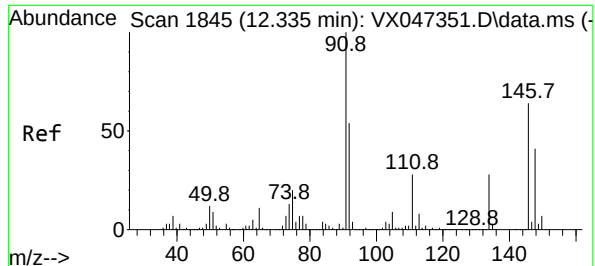
Tgt Ion:117 Resp: 35860

Ion Ratio Lower Upper

117 100

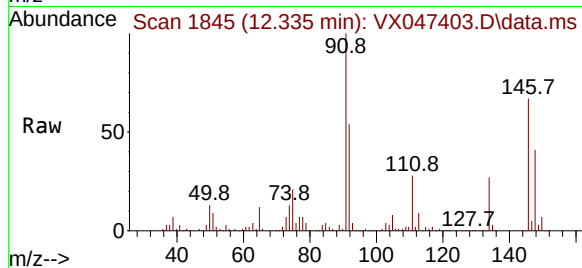
201 68.2 35.1 105.3





#91
1,2-Dichlorobenzene
Concen: 17.527 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55

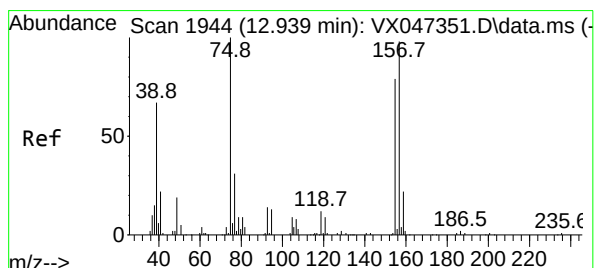
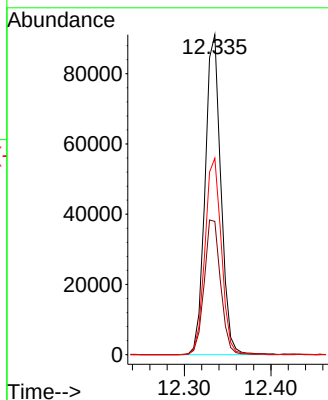
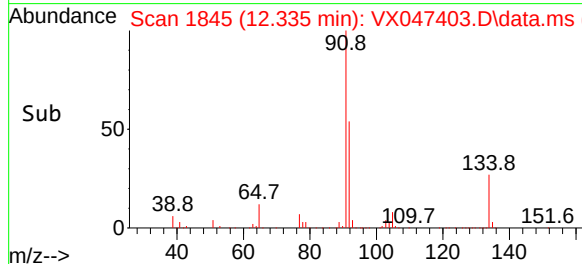
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01



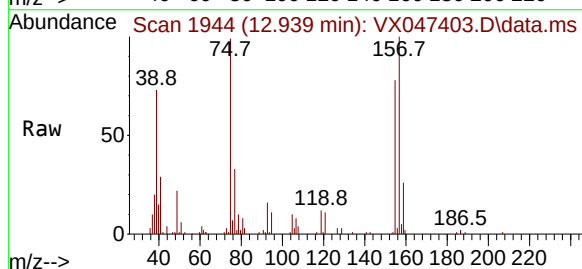
Tgt Ion:146 Resp: 115308
Ion Ratio Lower Upper
146 100
111 43.8 22.1 66.1
148 63.8 31.9 95.5

Manual Integrations
APPROVED

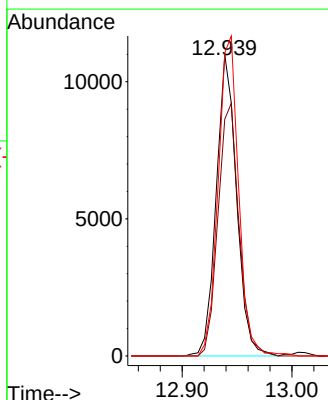
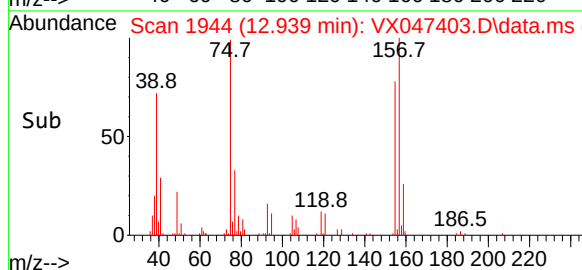
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

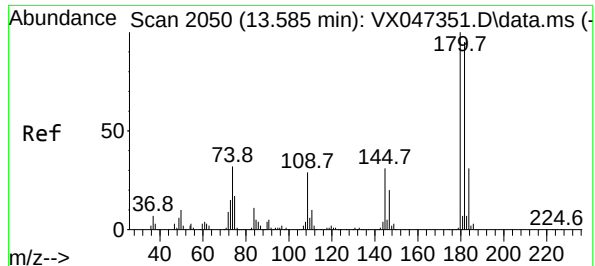


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.791 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047403.D
Acq: 19 Aug 2025 11:55



Tgt Ion: 75 Resp: 14165
Ion Ratio Lower Upper
75 100
155 86.2 41.3 123.7
157 106.6 51.5 154.5





#93

1,2,4-Trichlorobenzene

Concen: 16.600 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBS01

Tgt Ion:180 Resp: 73210

Ion Ratio Lower Upper

180 100

182 97.0 48.1 144.4

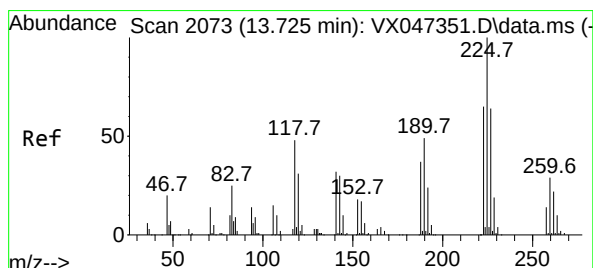
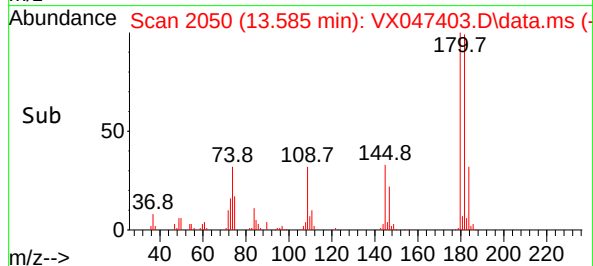
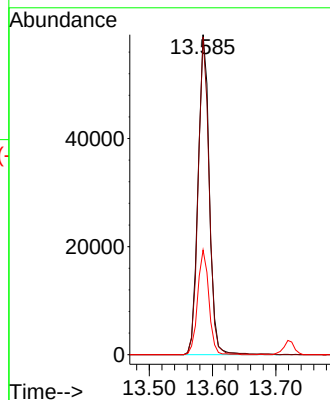
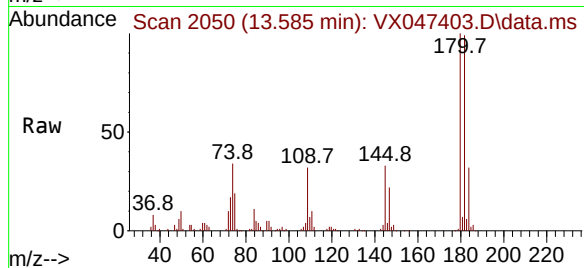
145 32.6 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#94

Hexachlorobutadiene

Concen: 16.124 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

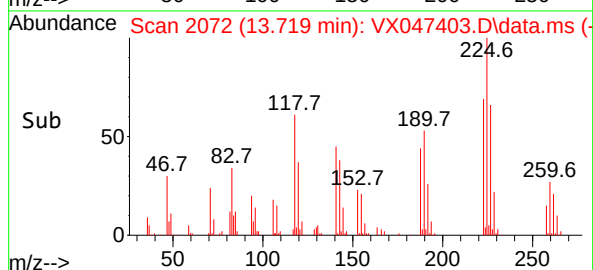
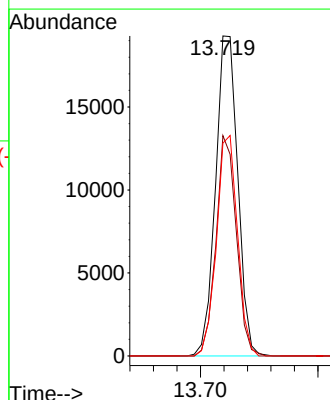
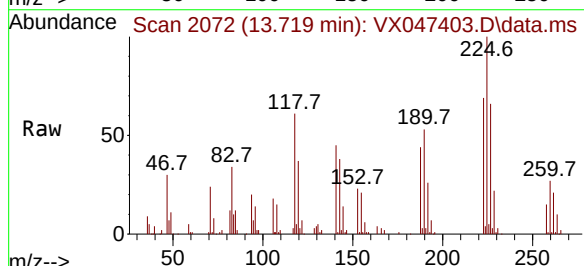
Tgt Ion:225 Resp: 25313

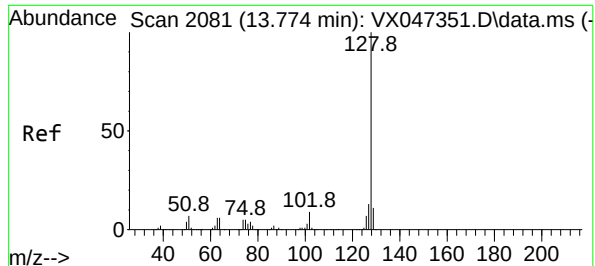
Ion Ratio Lower Upper

225 100

223 63.2 32.2 96.6

227 65.3 31.6 95.0





#95

Naphthalene

Concen: 17.229 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Instrument :

MSVOA_X

ClientSampleId :

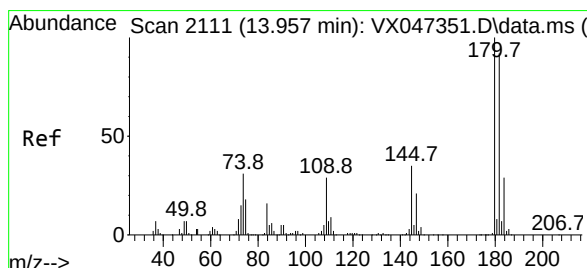
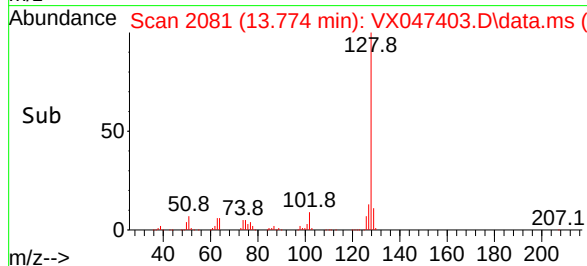
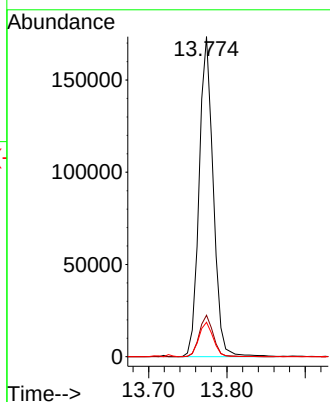
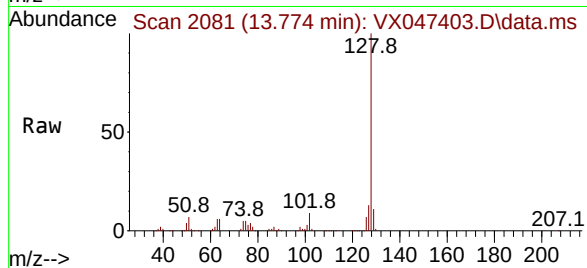
VX0819WBS01

Tgt Ion:	128	Resp:	217150
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.1	15.1
129	11.0	8.7	13.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#96

1,2,3-Trichlorobenzene

Concen: 17.088 ug/l

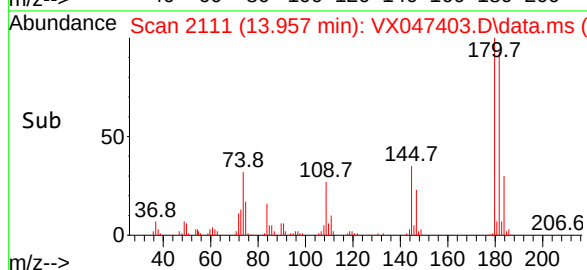
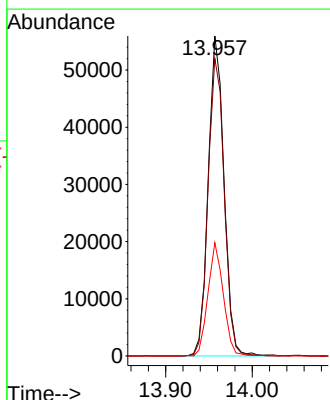
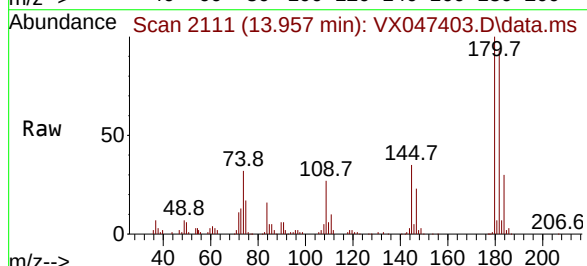
RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX047403.D

Acq: 19 Aug 2025 11:55

Tgt Ion:	180	Resp:	71038
Ion Ratio	Lower	Upper	
180	100		
182	94.8	48.0	144.2
145	34.4	17.4	52.2



Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger Site Princeton NJ 2025
 Client Sample ID: VX0819WBSD01
 Lab Sample ID: VX0819WBSD01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q2841
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	16.4		1	0.26	1.00	ug/L	08/19/25 12:37	VX081925
75-35-4	1,1-Dichloroethene	16.5		1	0.23	1.00	ug/L	08/19/25 12:37	VX081925
75-34-3	1,1-Dichloroethane	17.9		1	0.23	1.00	ug/L	08/19/25 12:37	VX081925
156-59-2	cis-1,2-Dichloroethene	17.8		1	0.19	1.00	ug/L	08/19/25 12:37	VX081925
71-55-6	1,1,1-Trichloroethane	17.5		1	0.20	1.00	ug/L	08/19/25 12:37	VX081925
71-43-2	Benzene	17.6		1	0.15	1.00	ug/L	08/19/25 12:37	VX081925
107-06-2	1,2-Dichloroethane	19.0		1	0.22	1.00	ug/L	08/19/25 12:37	VX081925
79-01-6	Trichloroethene	17.1		1	0.090	1.00	ug/L	08/19/25 12:37	VX081925
79-00-5	1,1,2-Trichloroethane	19.2		1	0.21	1.00	ug/L	08/19/25 12:37	VX081925
127-18-4	Tetrachloroethene	16.4		1	0.23	1.00	ug/L	08/19/25 12:37	VX081925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.2			70 (74) - 130 (125)	108%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.0			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	50.7			70 (86) - 130 (113)	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	53.7			70 (77) - 130 (121)	107%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	229000							
540-36-3	1,4-Difluorobenzene	395000							
3114-55-4	Chlorobenzene-d5	371000							
3855-82-1	1,4-Dichlorobenzene-d4	189000							

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\VX081925\
 Data File : VX047405.D
 Acq On : 19 Aug 2025 12:37
 Operator : JC/MD
 Sample : VX0819WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0819WBSD01

Quant Time: Aug 19 12:54:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	228746	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	395063	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	371284	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	189413	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	173401	54.165	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 108.320%	
35) Dibromofluoromethane	5.397	113	133228	51.961	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.920%	
50) Toluene-d8	8.653	98	464961	50.736	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 101.480%	
62) 4-Bromofluorobenzene	11.079	95	181529	53.678	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 107.360%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	48167	16.518	ug/l	99
3) Chloromethane	1.313	50	47416	18.076	ug/l	95
4) Vinyl Chloride	1.392	62	54098	16.431	ug/l #	64
5) Bromomethane	1.630	94	18415	13.847	ug/l	98
6) Chloroethane	1.709	64	40053	19.883	ug/l	99
7) Trichlorofluoromethane	1.904	101	79190	16.260	ug/l	94
8) Diethyl Ether	2.148	74	31587	18.420	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.349	101	47865	16.943	ug/l	100
10) Methyl Iodide	2.471	142	60898	12.579	ug/l	96
11) Tert butyl alcohol	2.965	59	30718	110.297	ug/l	98
12) 1,1-Dichloroethene	2.337	96	47603	16.528	ug/l	95
13) Acrolein	2.251	56	49016	83.374	ug/l	99
14) Allyl chloride	2.678	41	86456	17.283	ug/l	99
15) Acrylonitrile	3.081	53	131580	97.773	ug/l	98
16) Acetone	2.392	43	118674	98.621	ug/l	96
17) Carbon Disulfide	2.532	76	143093	16.465	ug/l	99
18) Methyl Acetate	2.715	43	63853	20.477	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	165202	18.855	ug/l	95
20) Methylene Chloride	2.806	84	58414	18.332	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	52164	17.065	ug/l	95
22) Diisopropyl ether	3.776	45	185604	18.771	ug/l	97
23) Vinyl Acetate	3.739	43	769207	94.909	ug/l	99
24) 1,1-Dichloroethane	3.629	63	100080	17.907	ug/l	97
25) 2-Butanone	4.568	43	160156	101.623	ug/l	99
26) 2,2-Dichloropropane	4.495	77	72356	17.153	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	63332	17.788	ug/l	100
28) Bromochloromethane	4.916	49	50702	21.801	ug/l	98
29) Tetrahydrofuran	5.025	42	102951	101.069	ug/l	98
30) Chloroform	5.105	83	104850	18.382	ug/l	97
31) Cyclohexane	5.483	56	81758	15.869	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	86106	17.538	ug/l	99
36) 1,1-Dichloropropene	5.708	75	66551	16.443	ug/l	98
37) Ethyl Acetate	4.727	43	75546	17.979	ug/l	98
38) Carbon Tetrachloride	5.690	117	75099	16.979	ug/l	98
39) Methylcyclohexane	7.385	83	80376	15.920	ug/l	96
40) Benzene	6.050	78	213254	17.603	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047405.D
 Acq On : 19 Aug 2025 12:37
 Operator : JC/MD
 Sample : VX0819WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0819WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 19 12:54:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.946	41	33732	19.037	ug/l	98
42) 1,2-Dichloroethane	6.098	62	81377	18.964	ug/l	99
43) Isopropyl Acetate	6.348	43	116749	19.341	ug/l	99
44) Trichloroethene	7.135	130	53112	17.122	ug/l	99
45) 1,2-Dichloropropane	7.433	63	55453	18.271	ug/l	99
46) Dibromomethane	7.586	93	41218	18.707	ug/l	98
47) Bromodichloromethane	7.824	83	82785	18.123	ug/l	96
48) Methyl methacrylate	7.696	41	59306	18.928	ug/l	98
49) 1,4-Dioxane	7.683	88	12842	421.610	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	351322	101.138	ug/l	98
52) Toluene	8.720	92	135282	18.071	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	74320	18.642	ug/l	99
54) cis-1,3-Dichloropropene	8.372	75	82154	18.206	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	54565	19.197	ug/l	98
56) Ethyl methacrylate	9.116	69	80828	19.288	ug/l	98
57) 1,3-Dichloropropane	9.311	76	92722	19.145	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	190782	100.511	ug/l	100
59) 2-Hexanone	9.433	43	241137	100.355	ug/l	97
60) Dibromochloromethane	9.518	129	62976	18.644	ug/l	99
61) 1,2-Dibromoethane	9.610	107	56725	19.354	ug/l	96
64) Tetrachloroethene	9.275	164	44006	16.386	ug/l	98
65) Chlorobenzene	10.079	112	150949	17.108	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	51594	17.298	ug/l	99
67) Ethyl Benzene	10.195	91	255830	16.847	ug/l	100
68) m/p-Xylenes	10.299	106	194493	34.348	ug/l	98
69) o-Xylene	10.640	106	92973	17.062	ug/l	100
70) Styrene	10.652	104	162232	17.620	ug/l	100
71) Bromoform	10.799	173	40831	18.222	ug/l #	98
73) Isopropylbenzene	10.963	105	244270	16.480	ug/l	99
74) N-amyl acetate	10.841	43	100184	17.799	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	79781	18.332	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	59679m	17.179	ug/l	
77) Bromobenzene	11.195	156	63251	17.475	ug/l	97
78) n-propylbenzene	11.305	91	293555	16.583	ug/l	100
79) 2-Chlorotoluene	11.360	91	179419	16.766	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	206343	16.919	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	9694	18.086	ug/l	93
82) 4-Chlorotoluene	11.451	91	212416	16.839	ug/l	100
83) tert-Butylbenzene	11.713	119	203047	16.688	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	208526	17.098	ug/l	99
85) sec-Butylbenzene	11.890	105	251738	16.692	ug/l	100
86) p-Isopropyltoluene	12.006	119	213521	16.732	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	118575	17.148	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	118652	16.684	ug/l	98
89) n-Butylbenzene	12.329	91	197278	16.620	ug/l	100
90) Hexachloroethane	12.536	117	36224	16.180	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	113288	17.261	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	14730	17.502	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	72411	16.457	ug/l	99
94) Hexachlorobutadiene	13.719	225	25996	16.599	ug/l	97
95) Naphthalene	13.774	128	219869	17.486	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	71446	17.227	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047405.D
Acq On : 19 Aug 2025 12:37
Operator : JC/MD
Sample : VX0819WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

Quant Time: Aug 19 12:54:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

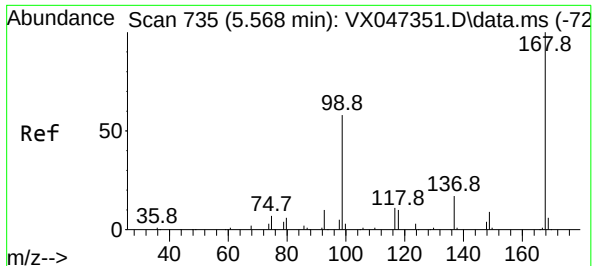
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Manual Integrations

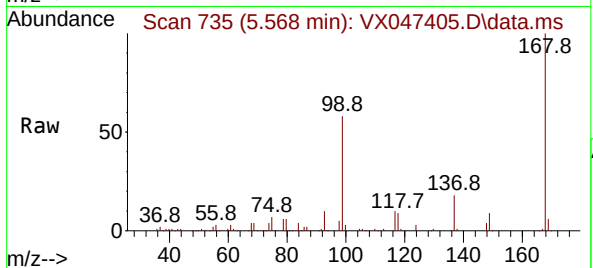
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 735
Delta R.T. -0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

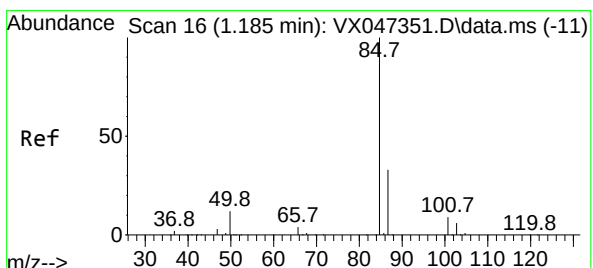
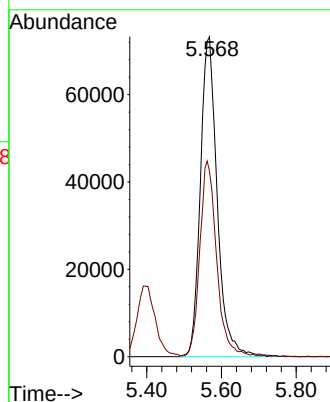
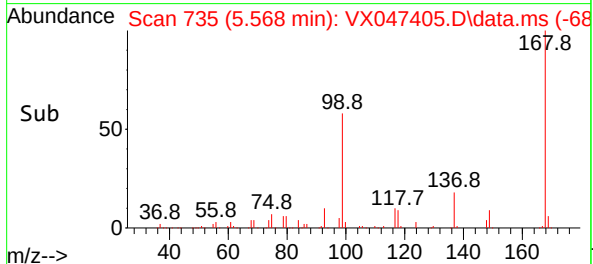
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



Tgt Ion: 168 Resp: 228740
Ion Ratio Lower Upper
168 100
99 57.9 47.9 71.9

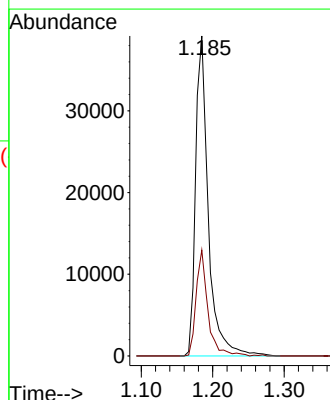
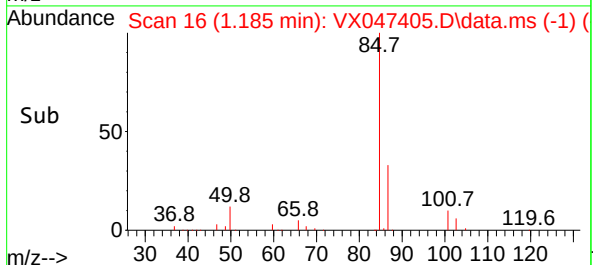
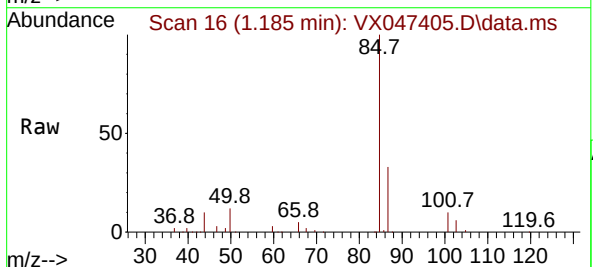
Manual Integrations
APPROVED

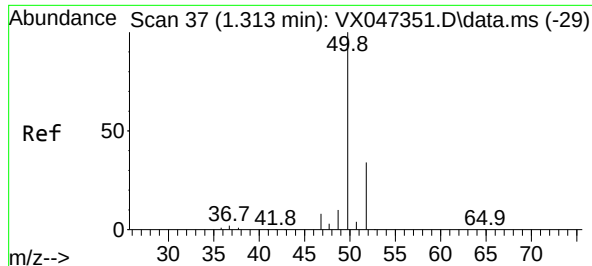
Reviewed By : John Carlone 08/20/2025
Supervised By : Mahesh Dadoda 08/20/2025



#2
Dichlorodifluoromethane
Concen: 16.518 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 85 Resp: 48167
Ion Ratio Lower Upper
85 100
87 33.4 16.4 49.1





#3

Chloromethane

Concen: 18.076 ug/l

RT: 1.313 min Scan# 37

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 50 Resp: 47410

Ion Ratio Lower Upper

50 100

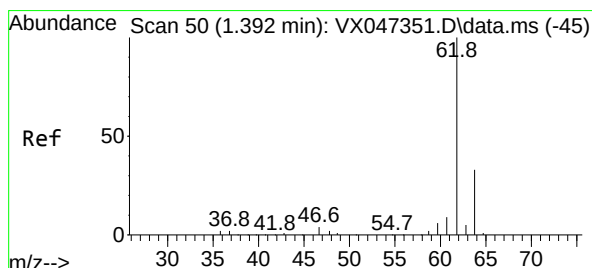
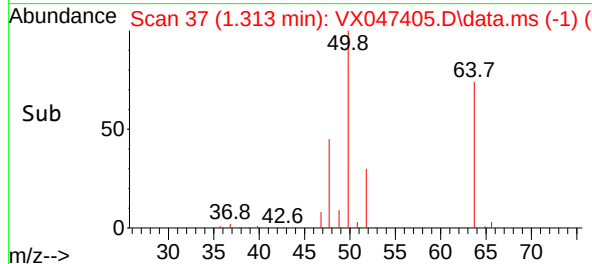
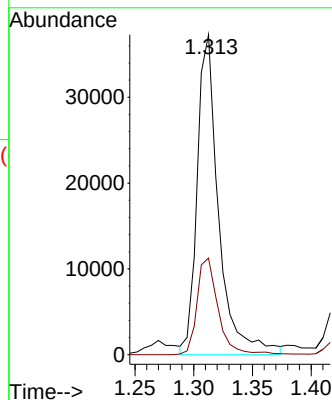
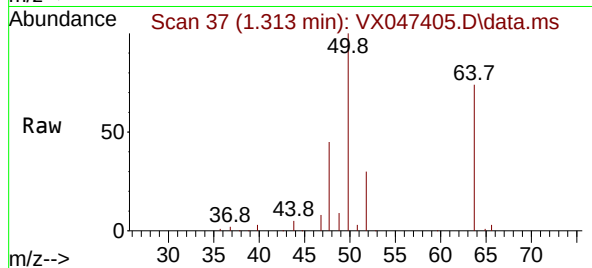
52 30.8 27.0 40.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#4

Vinyl Chloride

Concen: 16.431 ug/l

RT: 1.392 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047405.D

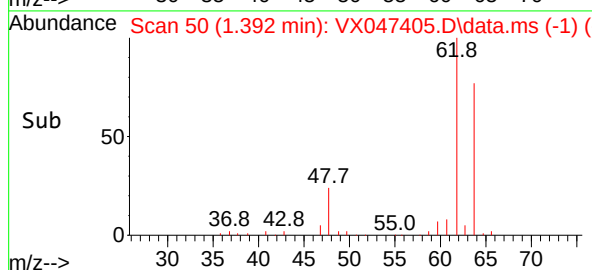
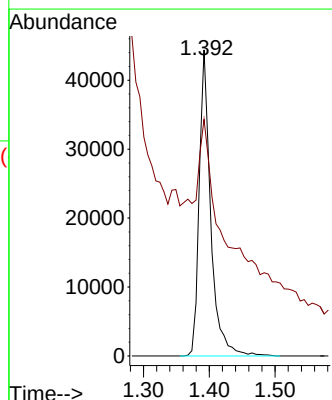
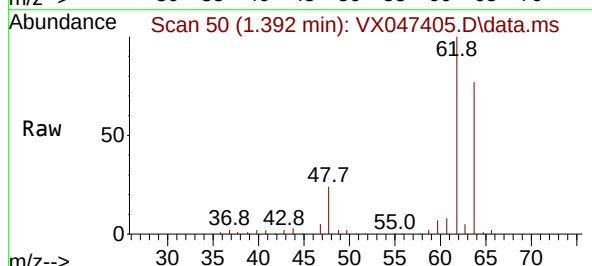
Acq: 19 Aug 2025 12:37

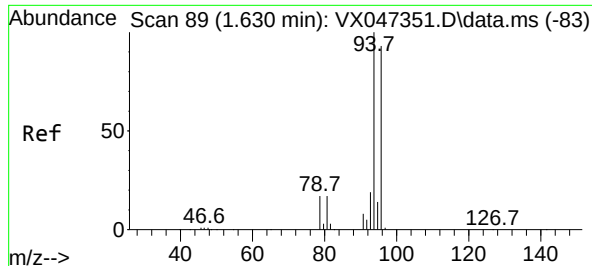
Tgt Ion: 62 Resp: 54098

Ion Ratio Lower Upper

62 100

64 53.5 26.5 39.7#





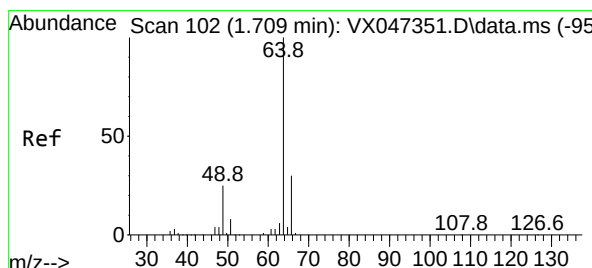
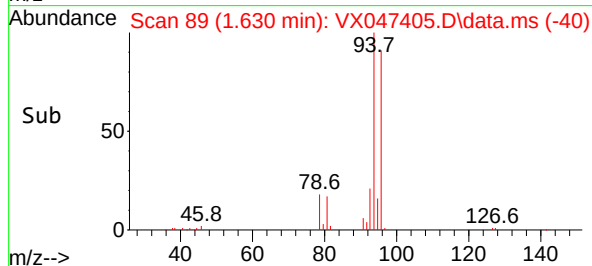
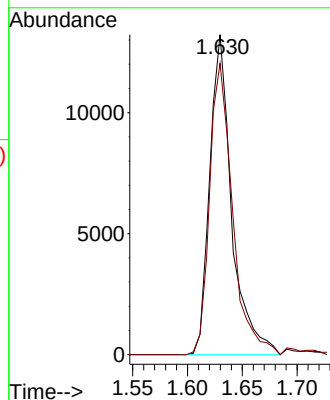
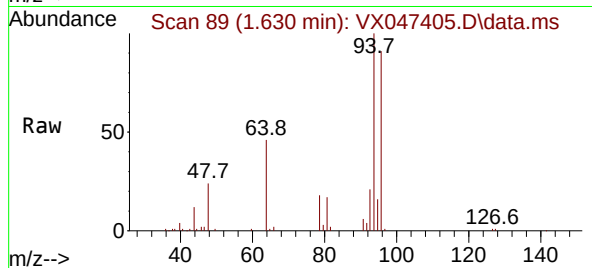
#5
Bromomethane
Concen: 13.847 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion: 94 Resp: 1841
Ion Ratio Lower Upper
94 100
96 91.1 74.7 112.1

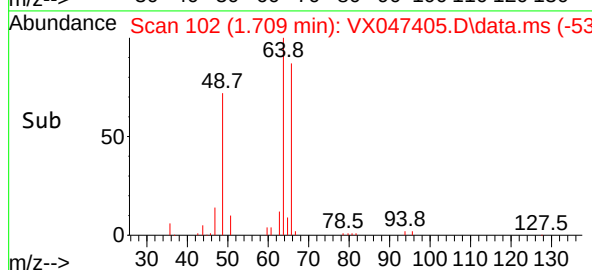
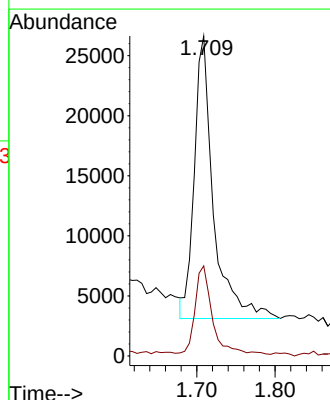
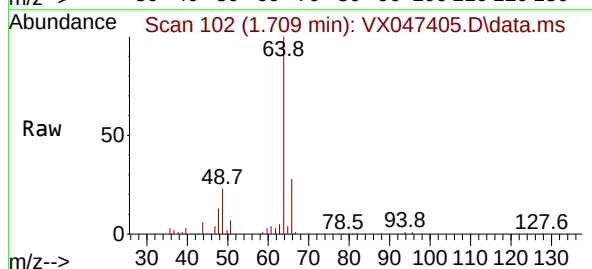
Manual Integrations
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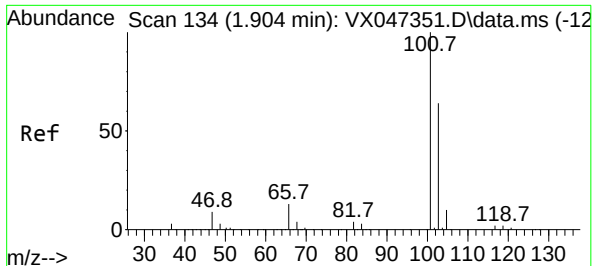
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#6
Chloroethane
Concen: 19.883 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 64 Resp: 40053
Ion Ratio Lower Upper
64 100
66 31.0 24.4 36.6





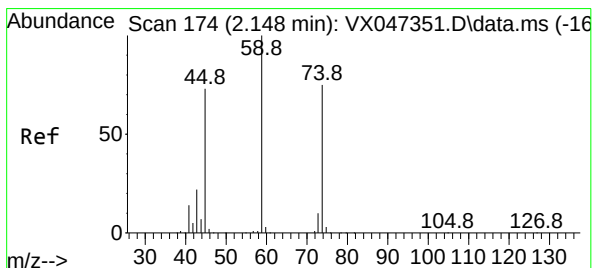
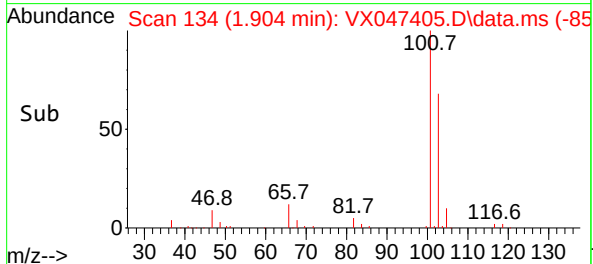
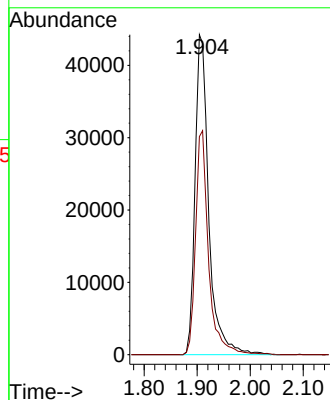
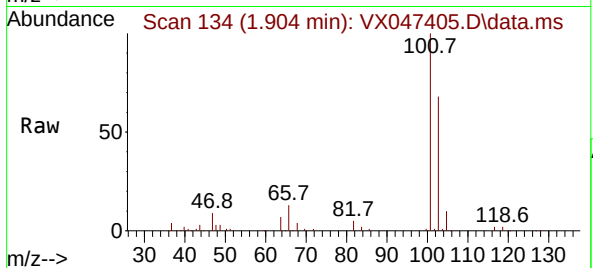
#7
Trichlorofluoromethane
Concen: 16.260 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion:101 Resp: 79190
Ion Ratio Lower Upper
101 100
103 68.2 50.9 76.3

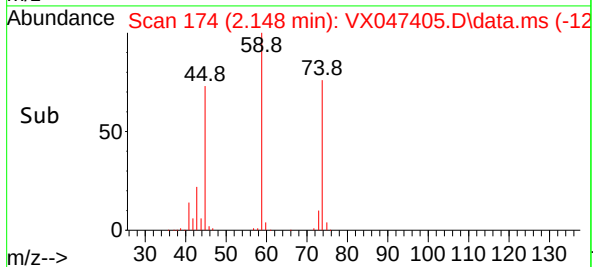
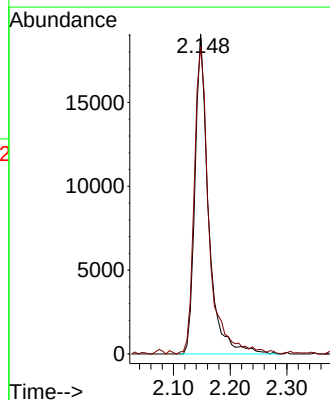
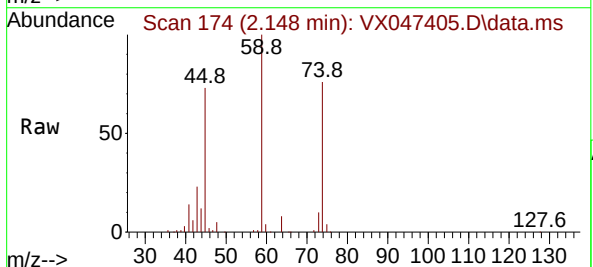
Manual Integrations
APPROVED

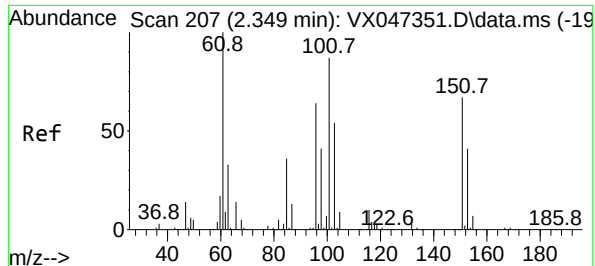
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#8
Diethyl Ether
Concen: 18.420 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 74 Resp: 31587
Ion Ratio Lower Upper
74 100
45 105.4 51.3 154.0





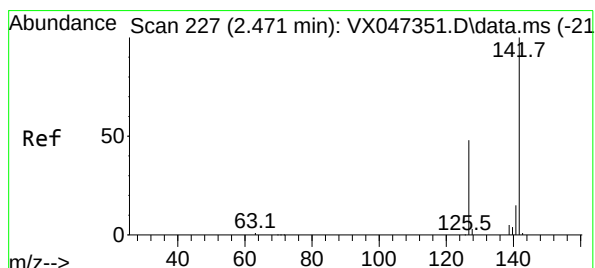
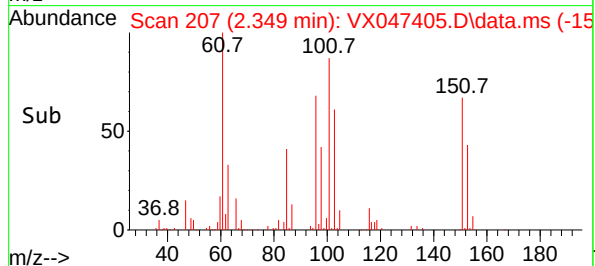
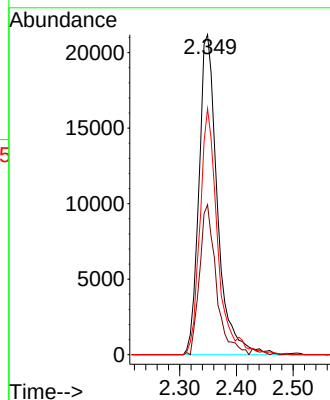
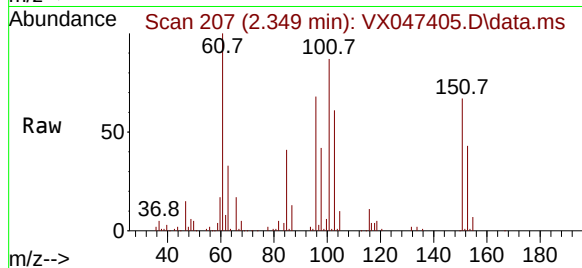
#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.943 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion:101 Resp: 4786
Ion Ratio Lower Upper
101 100
85 42.6 34.3 51.5
151 74.2 59.2 88.8

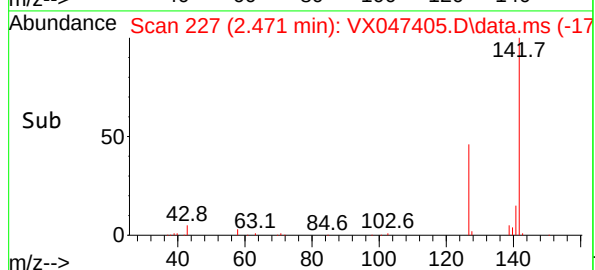
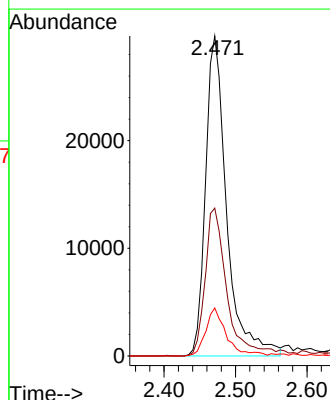
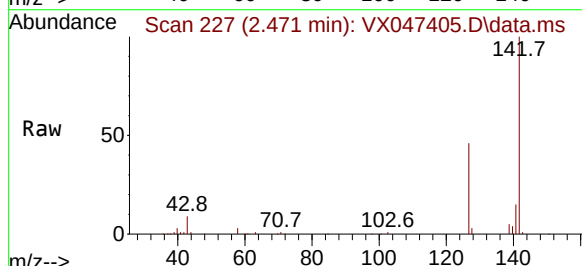
Manual Integrations
APPROVED

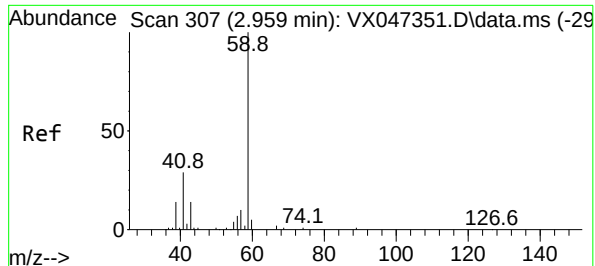
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#10
Methyl Iodide
Concen: 12.579 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion:142 Resp: 60898
Ion Ratio Lower Upper
142 100
127 48.4 36.1 54.1
141 14.6 11.1 16.7





#11

Tert butyl alcohol

Concen: 110.297 ug/l

RT: 2.965 min Scan# 307

Delta R.T. 0.006 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 59 Resp: 30718

Ion Ratio Lower Upper

59 100

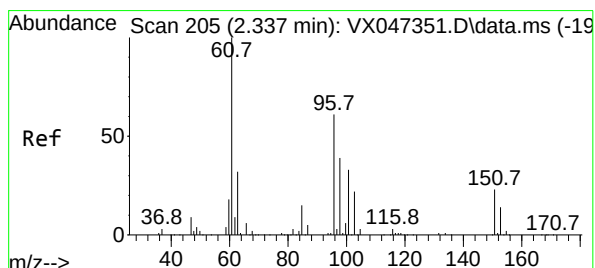
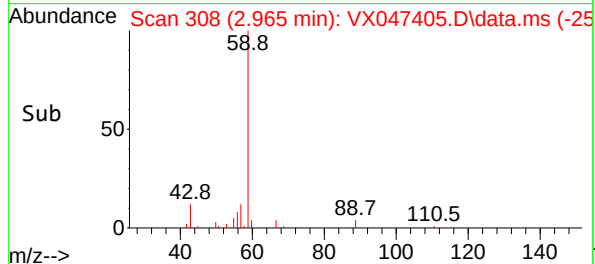
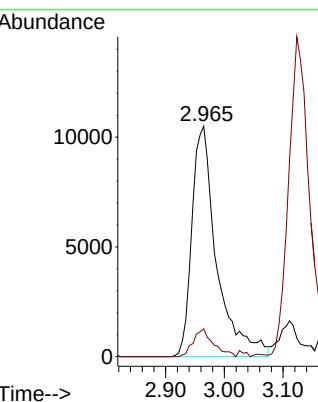
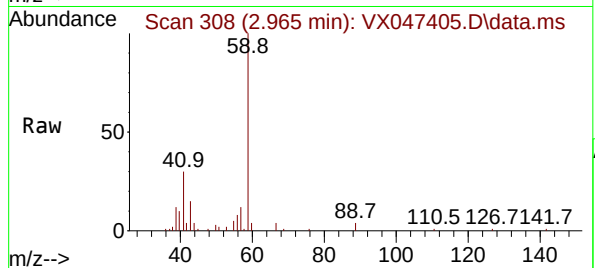
57 9.8 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#12

1,1-Dichloroethene

Concen: 16.528 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

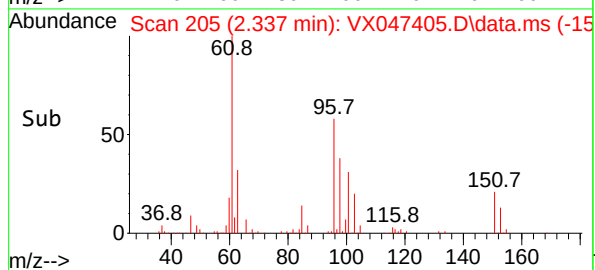
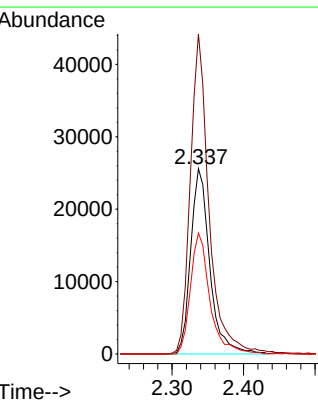
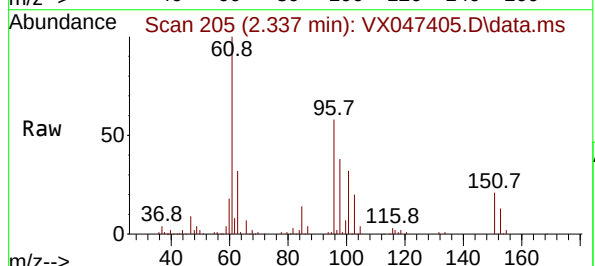
Tgt Ion: 96 Resp: 47603

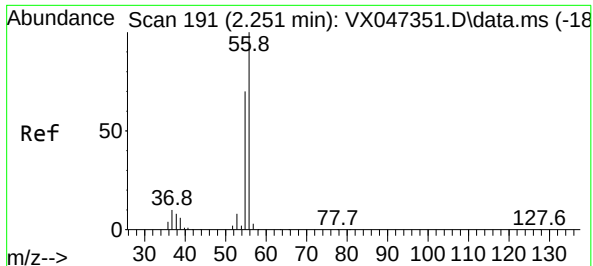
Ion Ratio Lower Upper

96 100

61 172.6 132.2 198.2

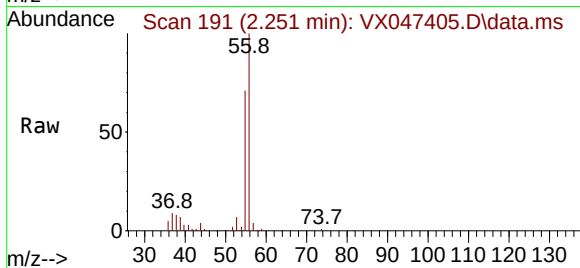
98 67.0 51.2 76.8





#13
Acrolein
Concen: 83.374 ug/l
RT: 2.251 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

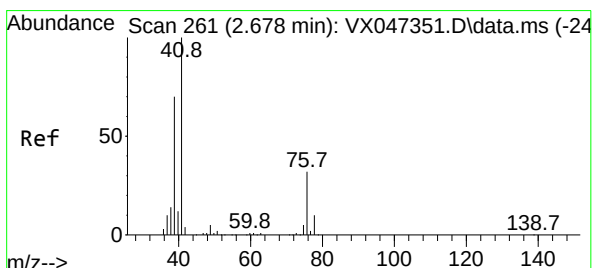
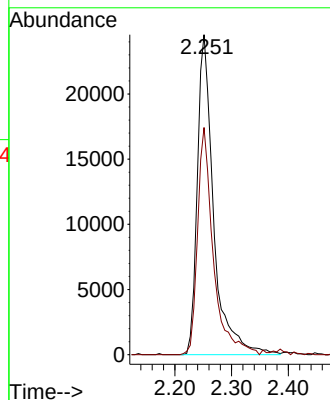
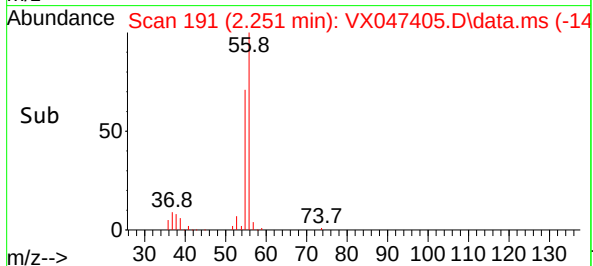
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



Tgt Ion: 56 Resp: 49010
Ion Ratio Lower Upper
56 100
55 68.5 55.5 83.3

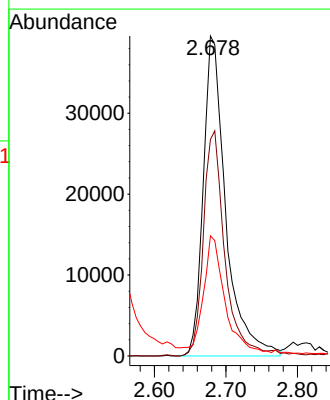
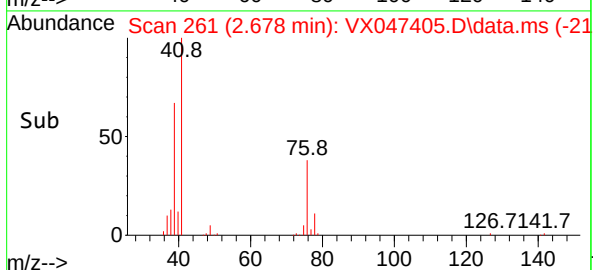
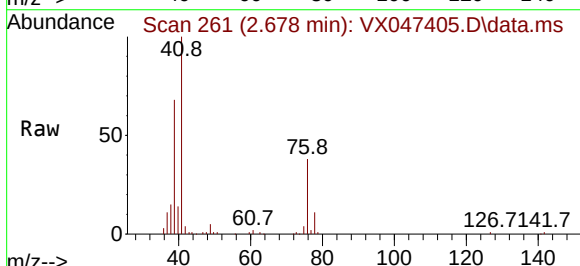
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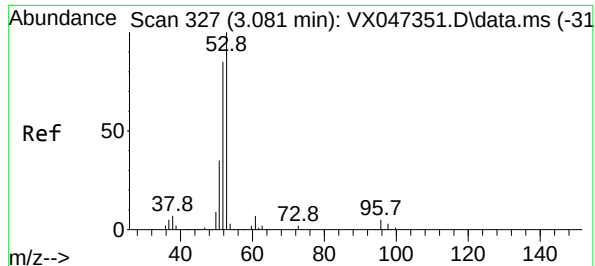
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#14
Allyl chloride
Concen: 17.283 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 41 Resp: 86456
Ion Ratio Lower Upper
41 100
39 67.6 54.6 81.8
76 34.7 27.6 41.4





#15

Acrylonitrile

Concen: 97.773 ug/l

RT: 3.081 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 53 Resp: 131580

Ion Ratio Lower Upper

53 100

52 83.9 65.8 98.6

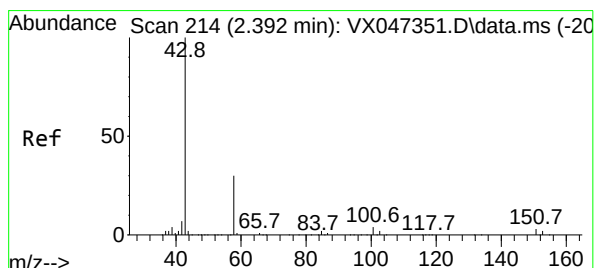
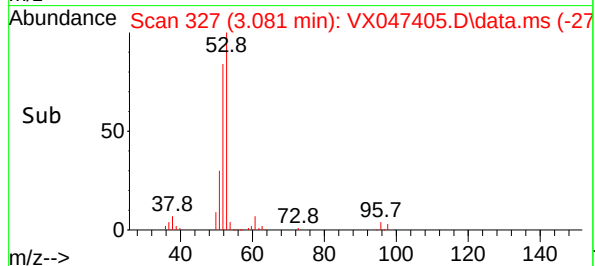
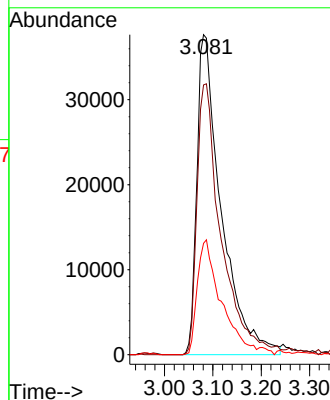
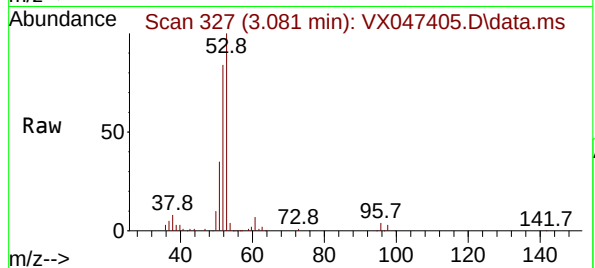
51 36.0 28.2 42.2

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#16

Acetone

Concen: 98.621 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX047405.D

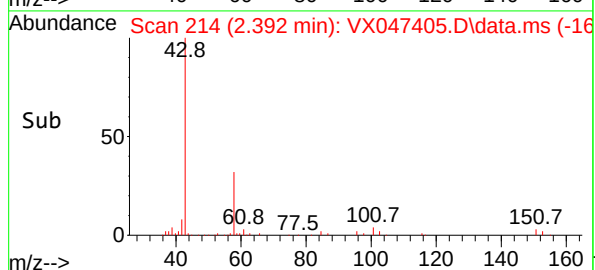
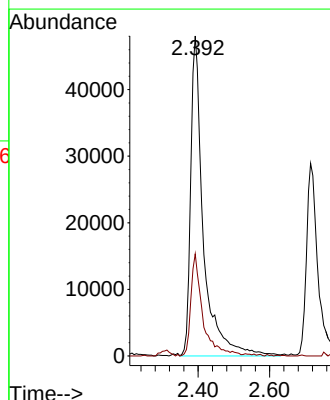
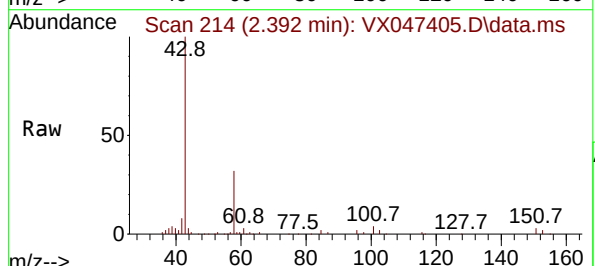
Acq: 19 Aug 2025 12:37

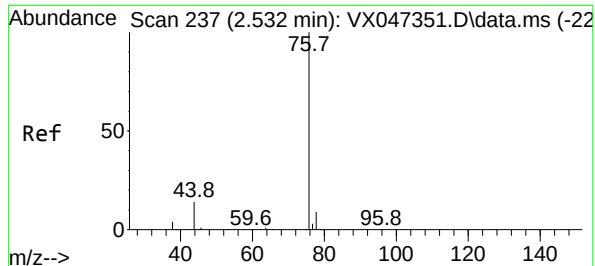
Tgt Ion: 43 Resp: 118674

Ion Ratio Lower Upper

43 100

58 33.1 24.8 37.2





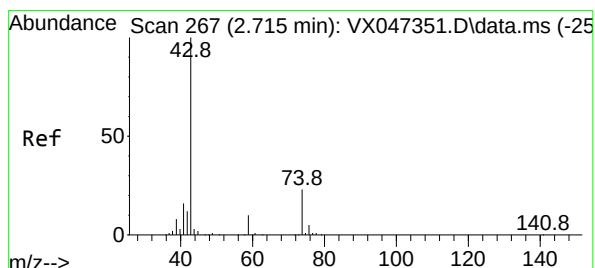
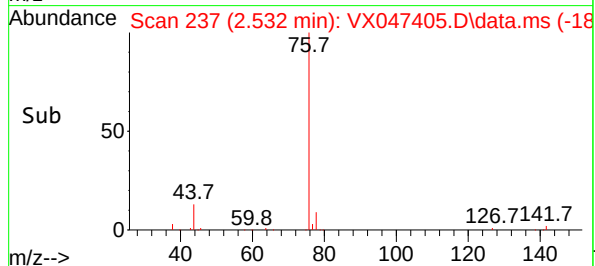
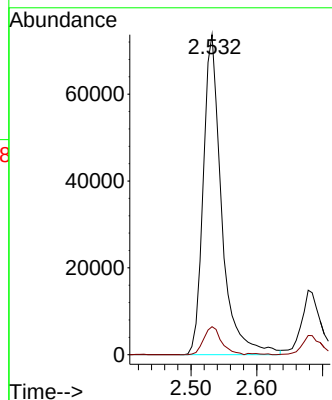
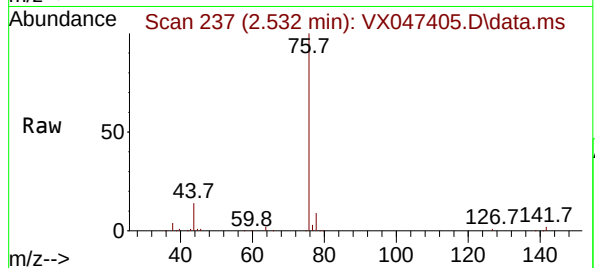
#17
Carbon Disulfide
Concen: 16.465 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion: 76 Resp: 14309
Ion Ratio Lower Upper
76 100
78 8.8 7.2 10.8

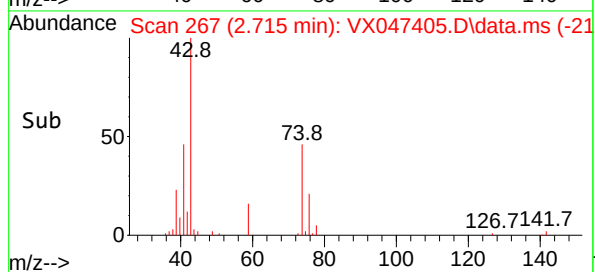
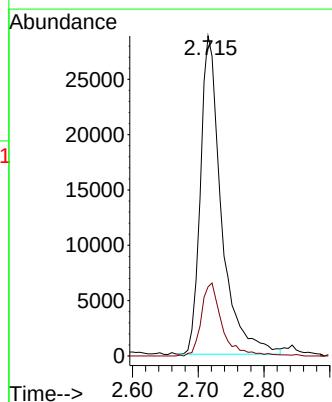
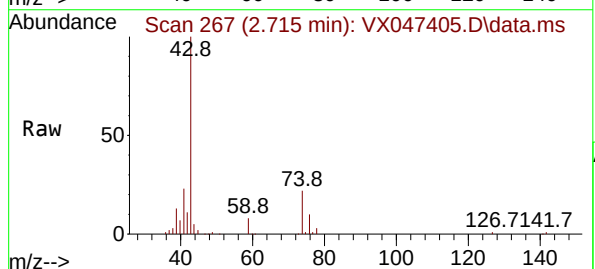
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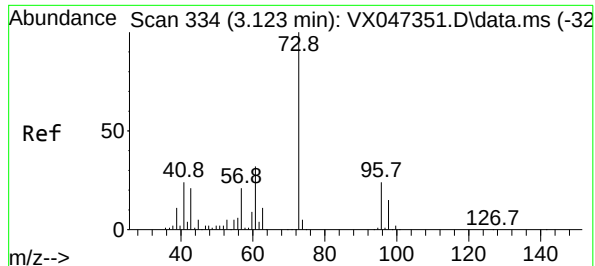
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#18
Methyl Acetate
Concen: 20.477 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 43 Resp: 63853
Ion Ratio Lower Upper
43 100
74 22.8 18.4 27.6





#19

Methyl tert-butyl Ether

Concen: 18.855 ug/l

RT: 3.123 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 73 Resp: 16520

Ion Ratio Lower Upper

73 100

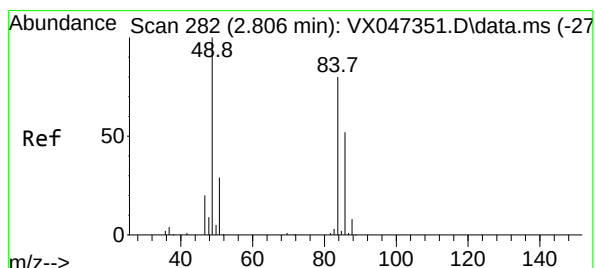
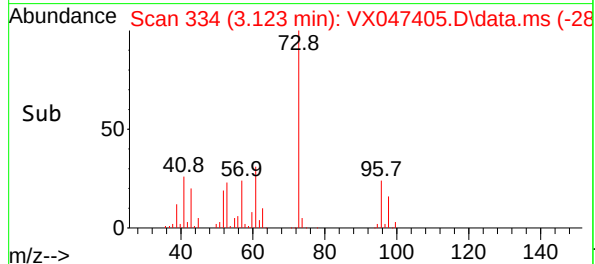
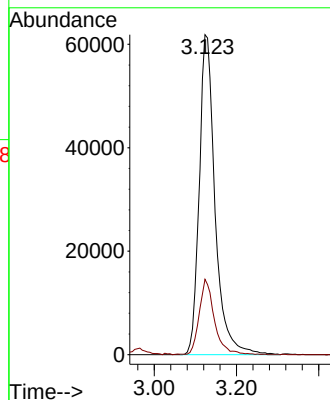
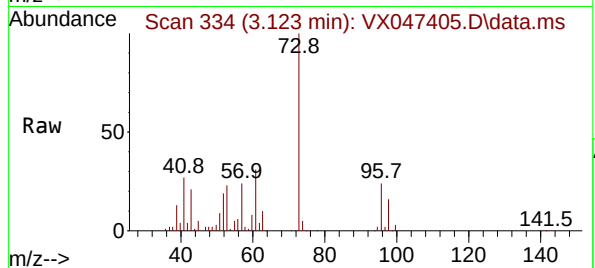
57 23.6 17.0 25.6

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#20

Methylene Chloride

Concen: 18.332 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Tgt Ion: 84 Resp: 58414

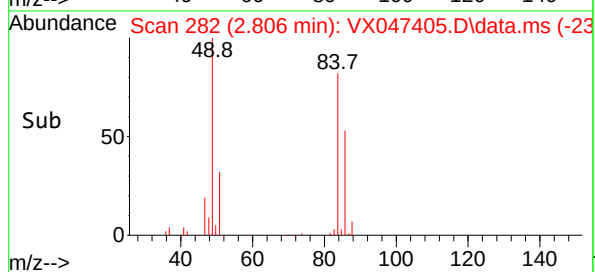
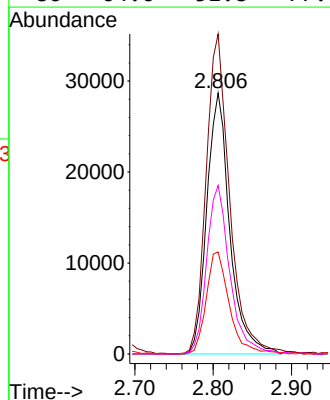
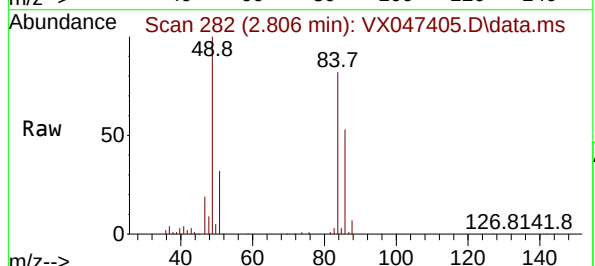
Ion Ratio Lower Upper

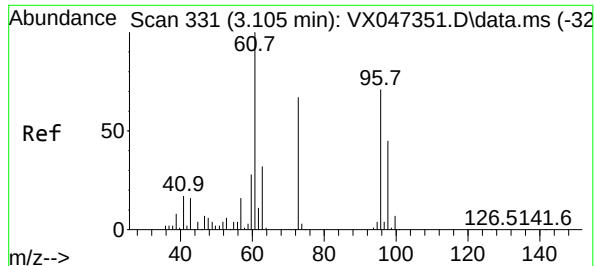
84 100

49 122.4 100.1 150.1

51 39.1 29.5 44.3

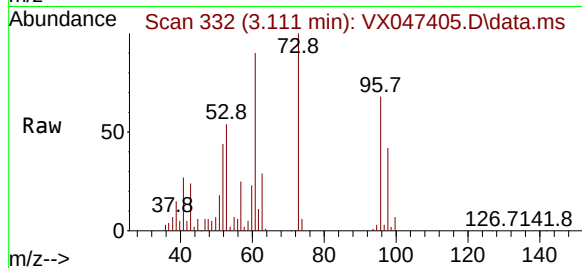
86 64.6 51.8 77.8





#21
trans-1,2-Dichloroethene
Concen: 17.065 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

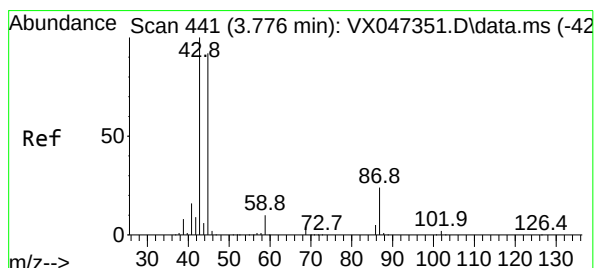
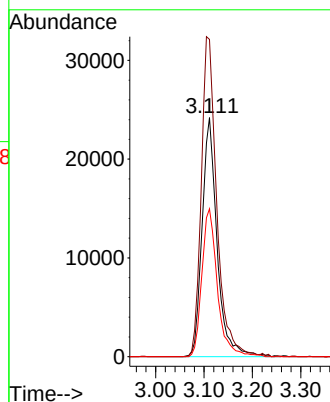
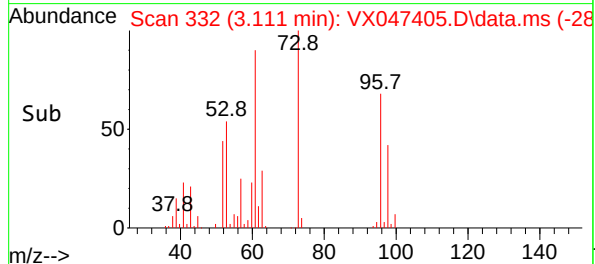
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



Tgt Ion: 96 Resp: 52164
Ion Ratio Lower Upper
96 100
61 132.7 112.6 169.0
98 64.7 50.9 76.3

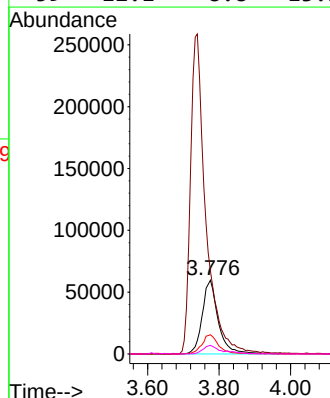
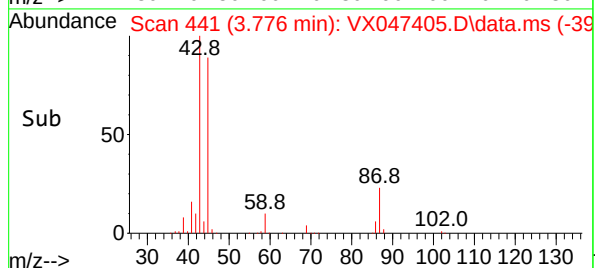
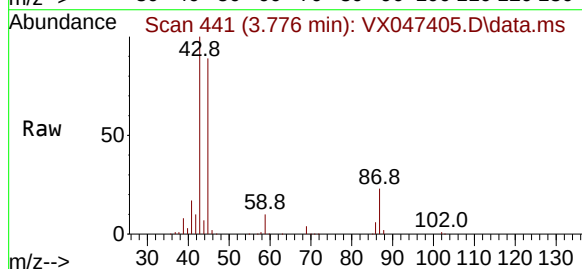
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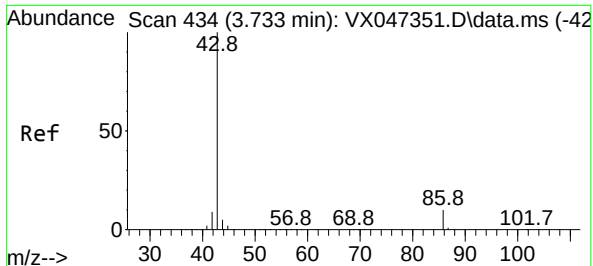
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#22
Diisopropyl ether
Concen: 18.771 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 45 Resp: 185604
Ion Ratio Lower Upper
45 100
43 111.9 86.8 130.2
87 26.0 20.4 30.6
59 12.1 8.8 13.2





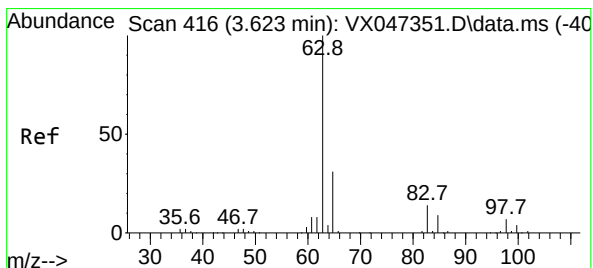
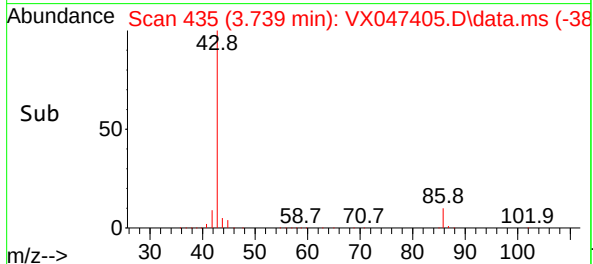
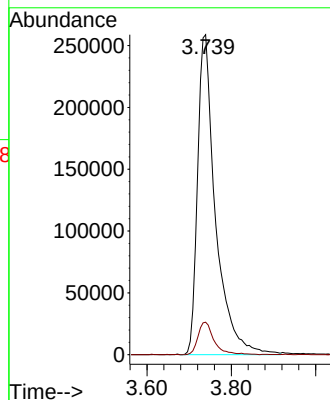
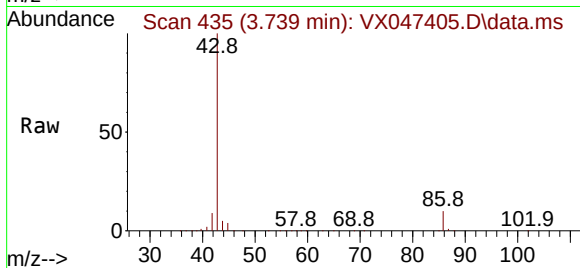
#23
Vinyl Acetate
Concen: 94.909 ug/l
RT: 3.739 min Scan# 41
Delta R.T. 0.006 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion: 43 Resp: 76920
Ion Ratio Lower Upper
43 100
86 10.1 7.9 11.9

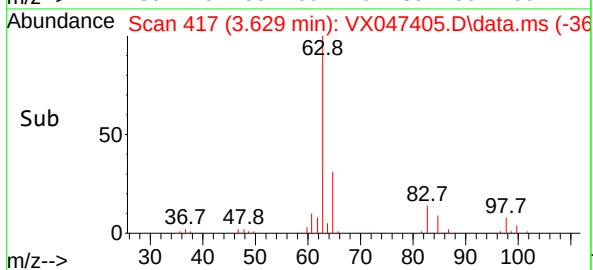
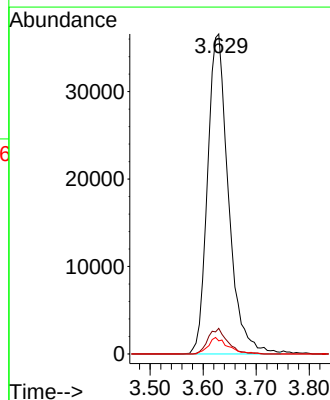
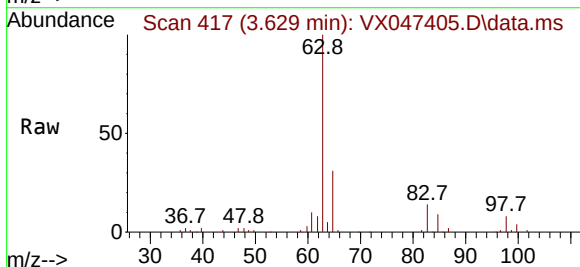
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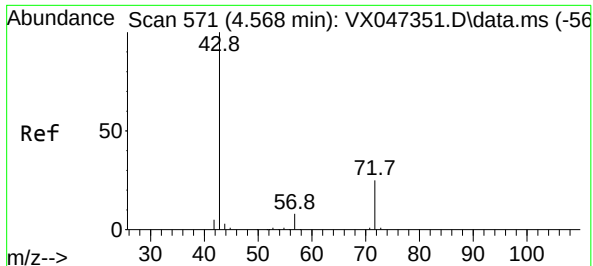
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#24
1,1-Dichloroethane
Concen: 17.907 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.006 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 63 Resp: 100080
Ion Ratio Lower Upper
63 100
98 8.0 3.3 9.9
100 4.1 2.1 6.3





#25

2-Butanone

Concen: 101.623 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 43 Resp: 160156

Ion Ratio Lower Upper

43 100

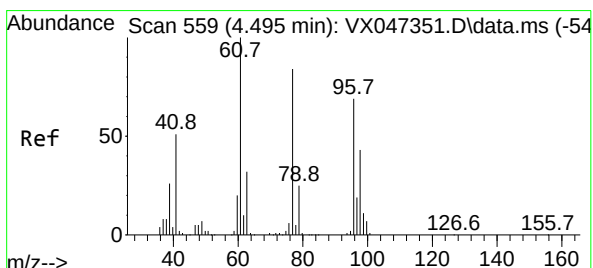
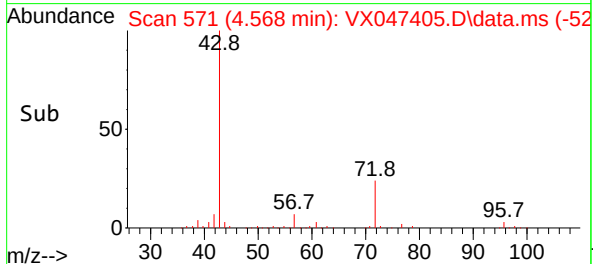
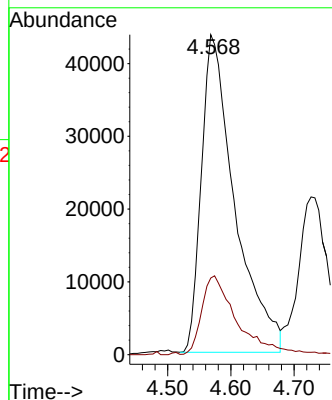
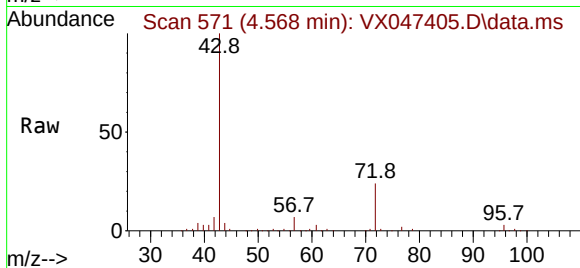
72 24.3 19.8 29.8

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#26

2,2-Dichloropropane

Concen: 17.153 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX047405.D

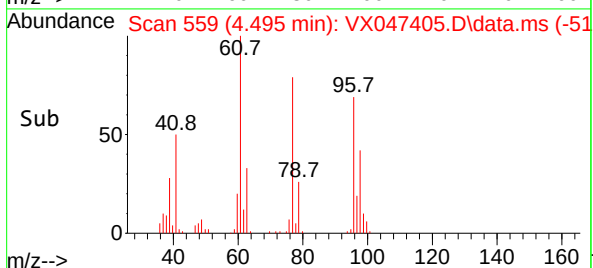
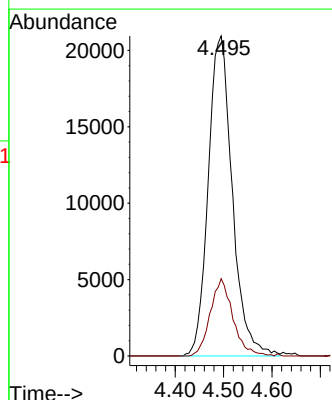
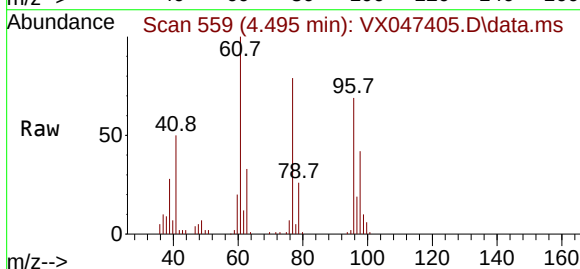
Acq: 19 Aug 2025 12:37

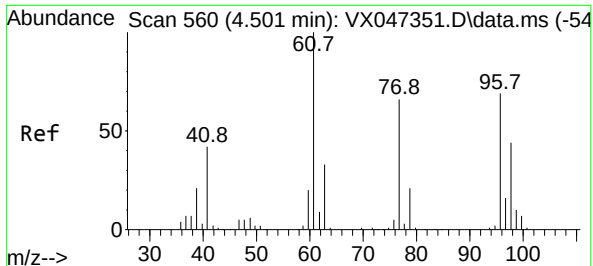
Tgt Ion: 77 Resp: 72356

Ion Ratio Lower Upper

77 100

97 22.7 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 17.788 ug/l

RT: 4.501 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 96 Resp: 6333

Ion Ratio Lower Upper

96 100

61 148.8 0.0 296.6

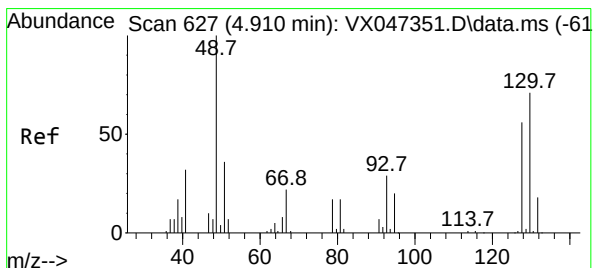
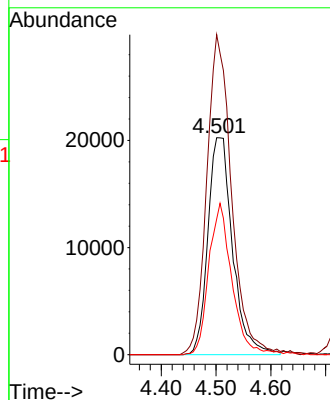
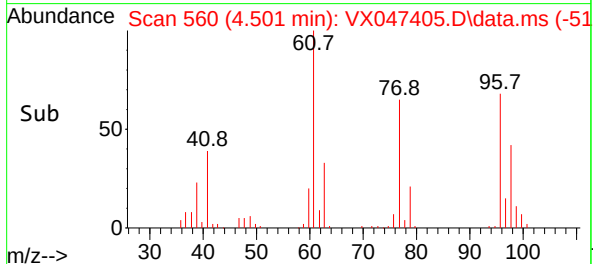
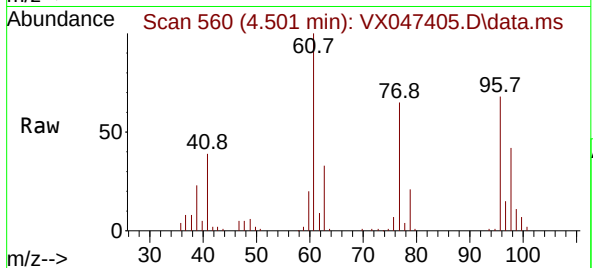
98 65.0 0.0 130.4

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#28

Bromochloromethane

Concen: 21.801 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.006 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

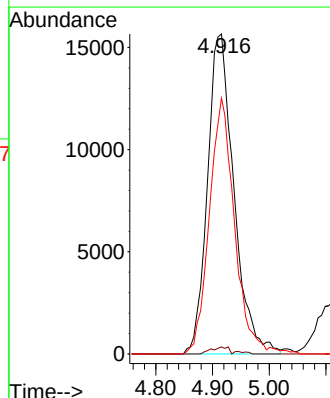
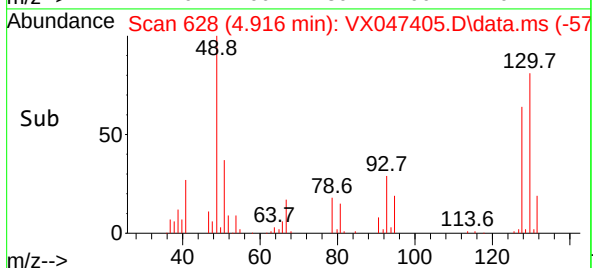
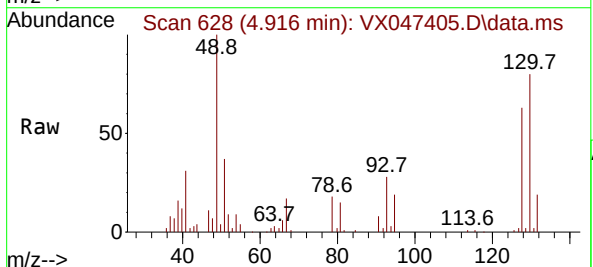
Tgt Ion: 49 Resp: 50702

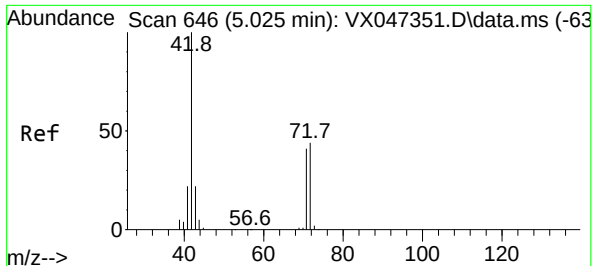
Ion Ratio Lower Upper

49 100

129 1.5 0.0 4.0

130 76.5 59.8 89.6





#29

Tetrahydrofuran

Concen: 101.069 ug/l

RT: 5.025 min Scan# 646

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 42 Resp: 10295

Ion Ratio Lower Upper

42 100

72 42.9 34.6 51.8

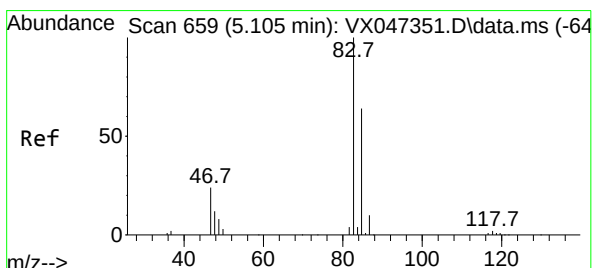
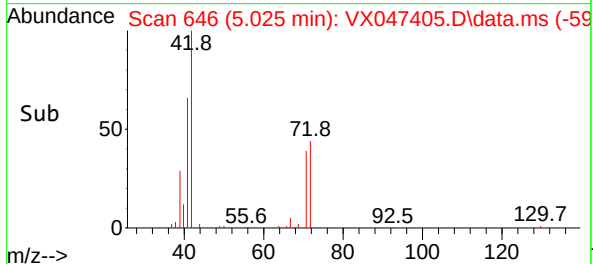
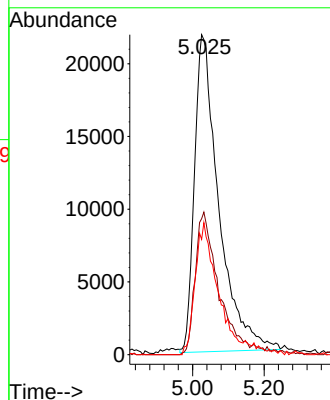
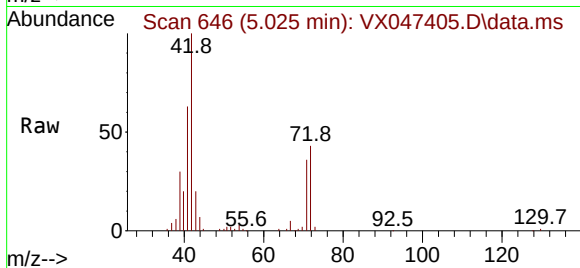
71 38.1 32.6 49.0

Manual Integrations

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Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#30

Chloroform

Concen: 18.382 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.000 min

Lab File: VX047405.D

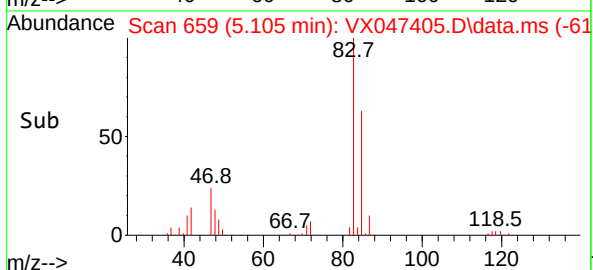
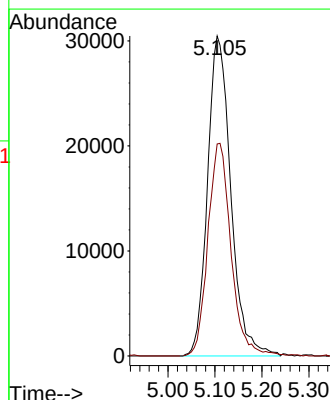
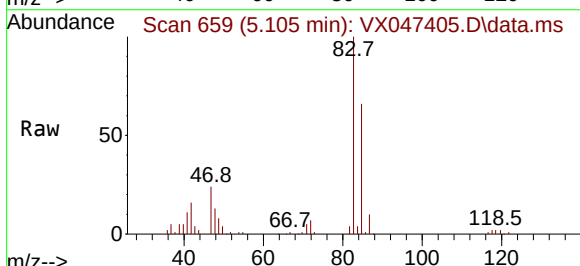
Acq: 19 Aug 2025 12:37

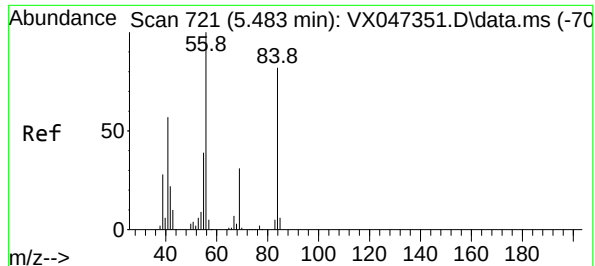
Tgt Ion: 83 Resp: 104850

Ion Ratio Lower Upper

83 100

85 66.2 51.2 76.8





#31

Cyclohexane

Concen: 15.869 ug/l

RT: 5.483 min Scan# 721

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 56 Resp: 81758

Ion Ratio Lower Upper

56 100

69 31.0 24.3 36.5

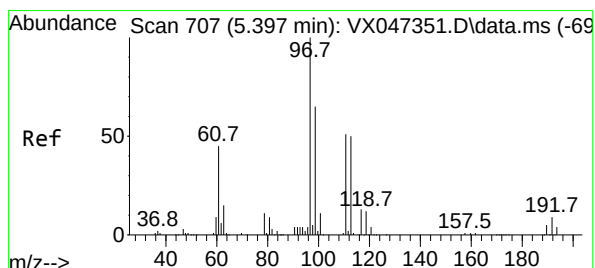
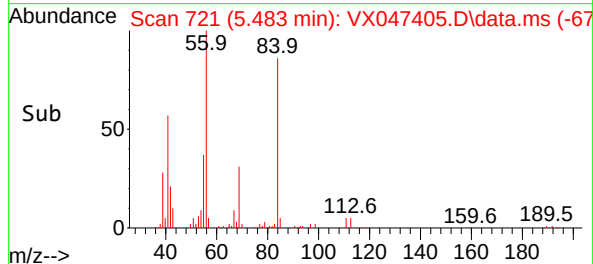
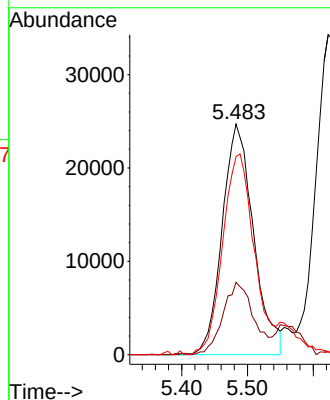
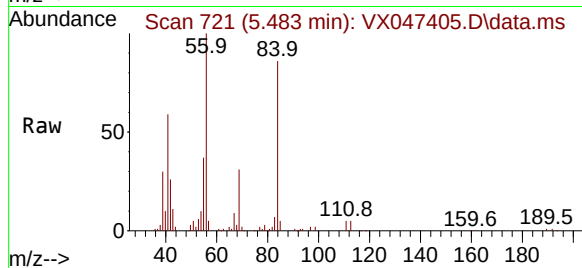
84 84.3 65.3 97.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#32

1,1,1-Trichloroethane

Concen: 17.538 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

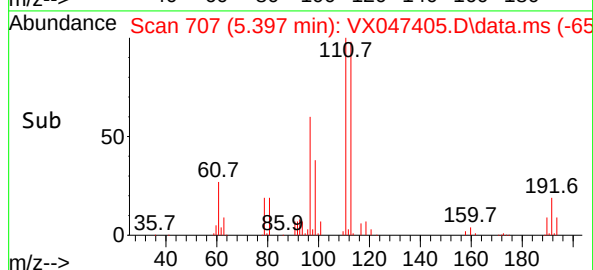
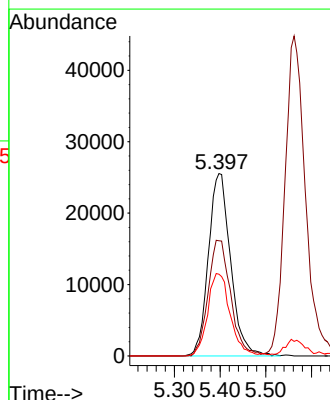
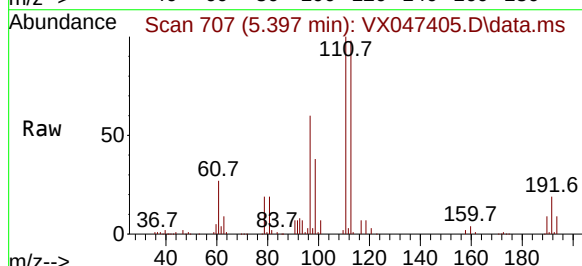
Tgt Ion: 97 Resp: 86106

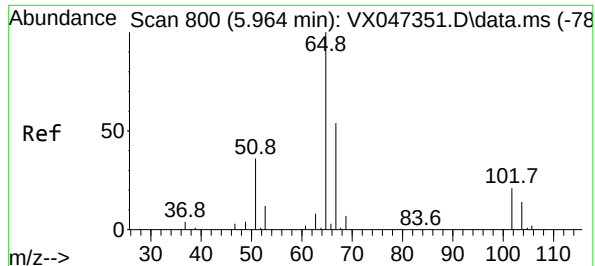
Ion Ratio Lower Upper

97 100

99 64.4 51.4 77.0

61 45.7 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 54.165 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

Client Sample Id :

VX0819WBSD01

Tgt Ion: 65 Resp: 17340

Ion Ratio Lower Upper

65 100

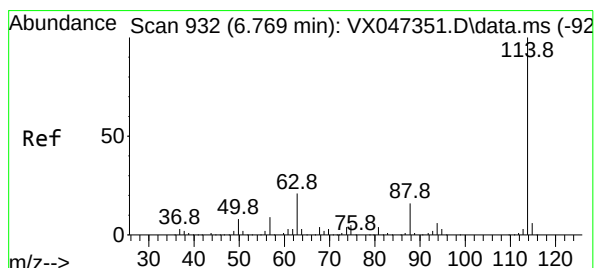
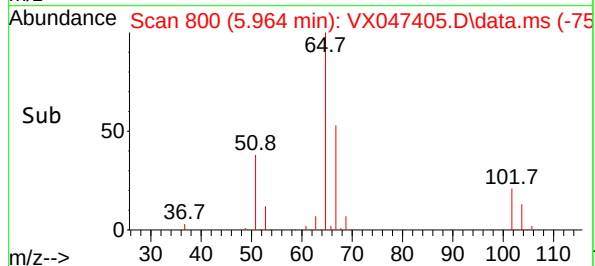
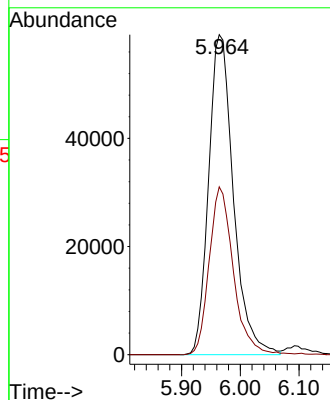
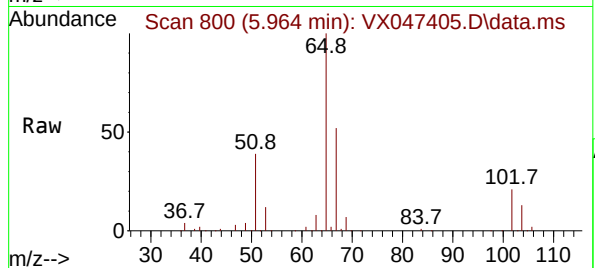
67 51.1 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

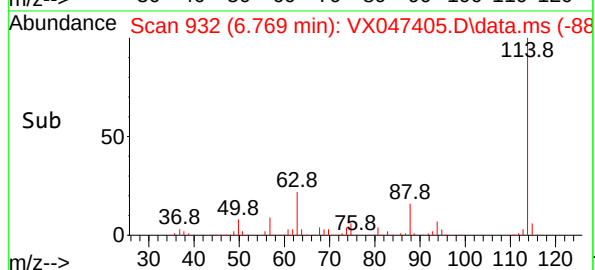
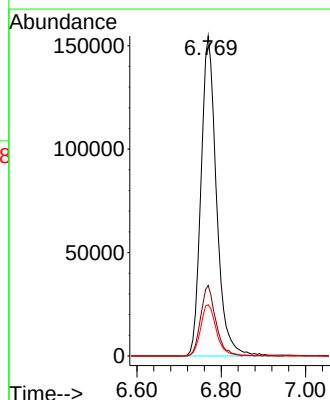
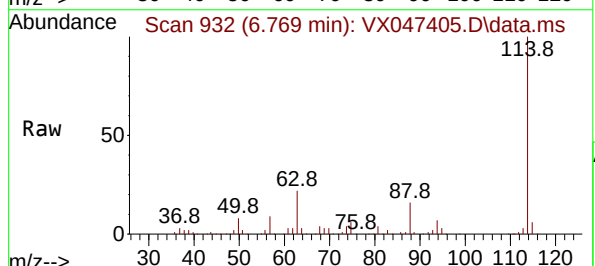
Tgt Ion:114 Resp: 395063

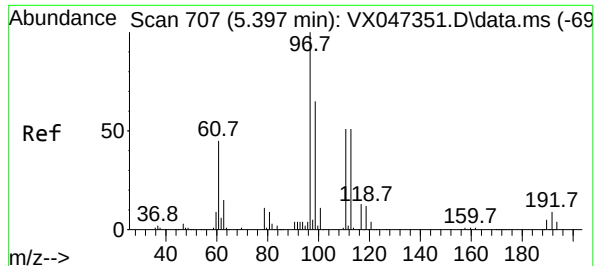
Ion Ratio Lower Upper

114 100

63 22.1 0.0 42.4

88 16.0 0.0 33.0





#35

Dibromofluoromethane

Concen: 51.961 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion:113 Resp: 133228

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.2

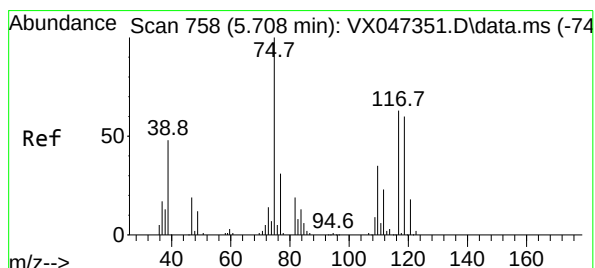
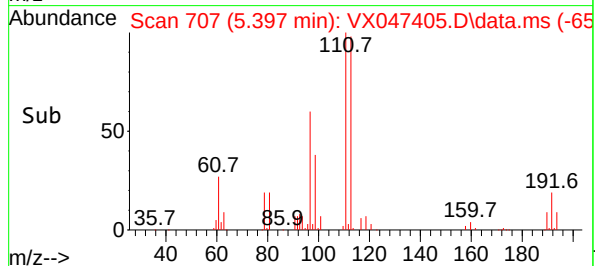
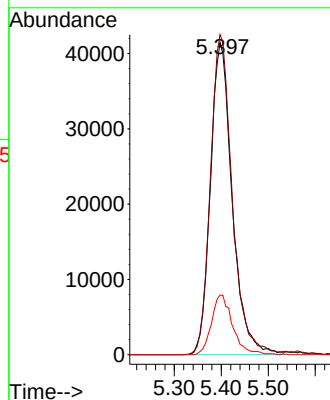
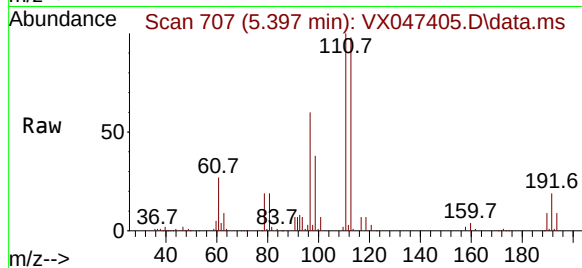
192 18.5 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#36

1,1-Dichloropropene

Concen: 16.443 ug/l

RT: 5.708 min Scan# 758

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

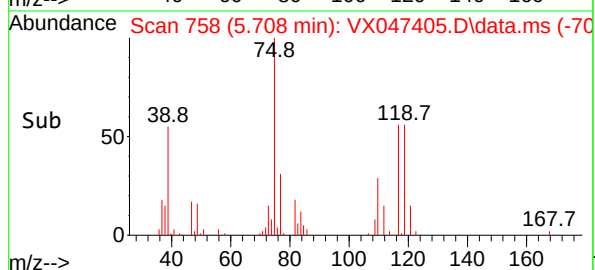
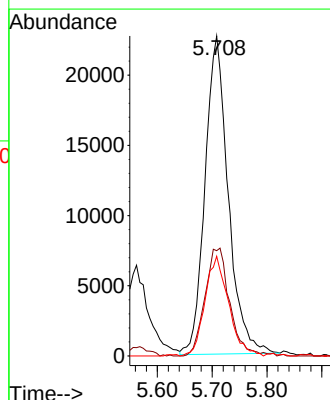
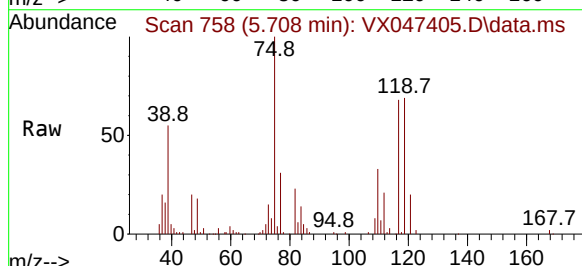
Tgt Ion: 75 Resp: 66551

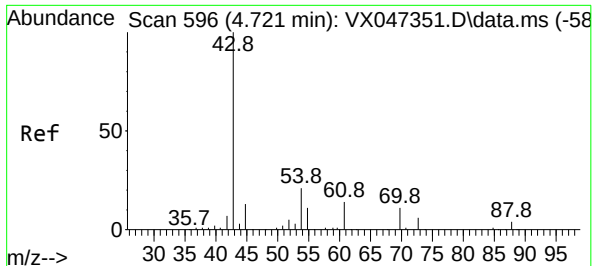
Ion Ratio Lower Upper

75 100

110 36.2 17.4 52.2

77 31.9 24.4 36.6





#37

Ethyl Acetate

Concen: 17.979 ug/l

RT: 4.727 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

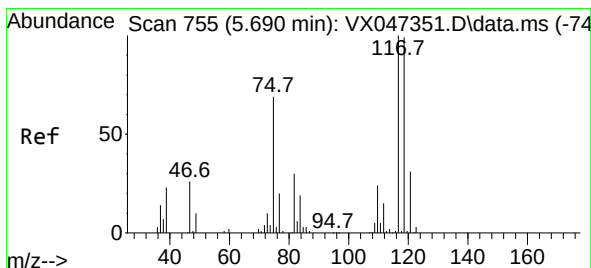
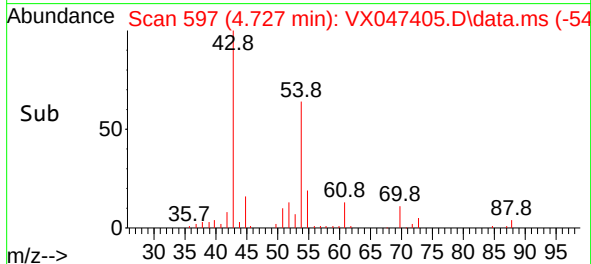
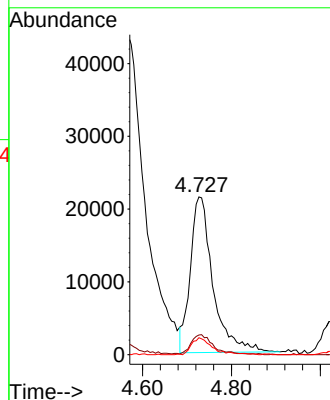
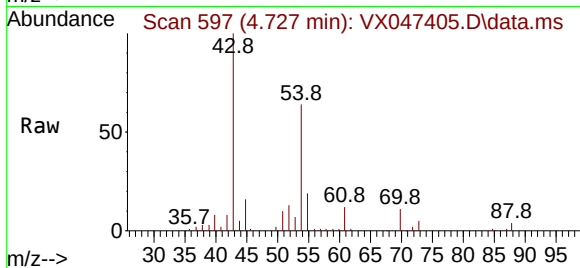
Tgt Ion:	43	Resp:	7554
Ion Ratio	Lower	Upper	
43	100		
61	11.7	9.4	14.2
70	10.1	7.0	10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#38

Carbon Tetrachloride

Concen: 16.979 ug/l

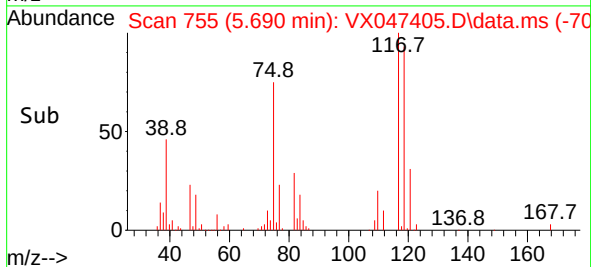
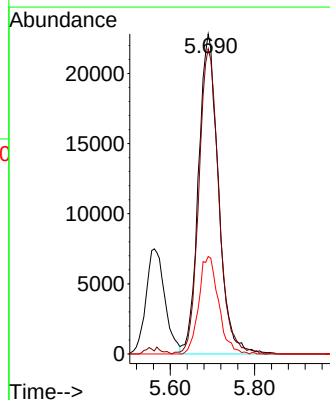
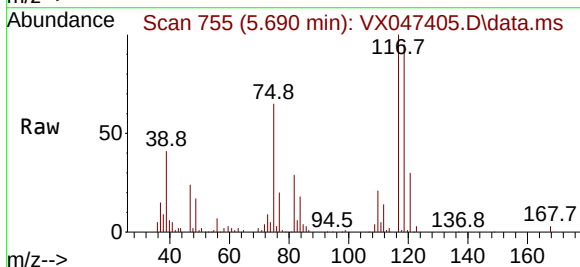
RT: 5.690 min Scan# 755

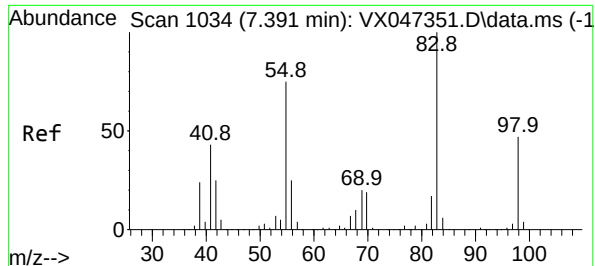
Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Tgt Ion:	117	Resp:	75099
Ion Ratio	Lower	Upper	
117	100		
119	95.4	78.5	117.7
121	30.4	24.7	37.1





#39

Methylcyclohexane

Concen: 15.920 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

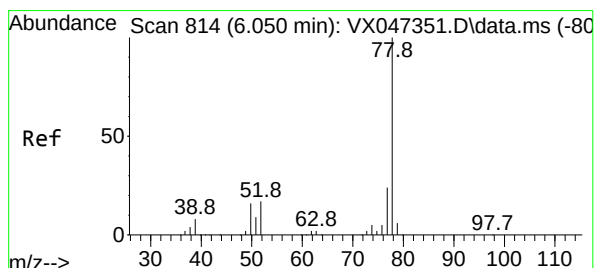
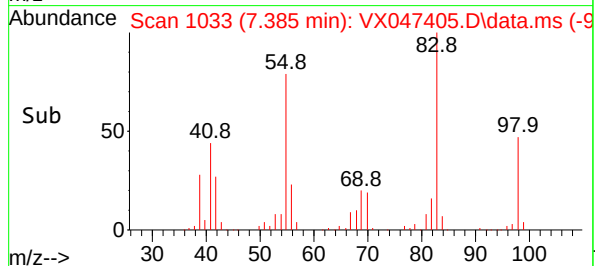
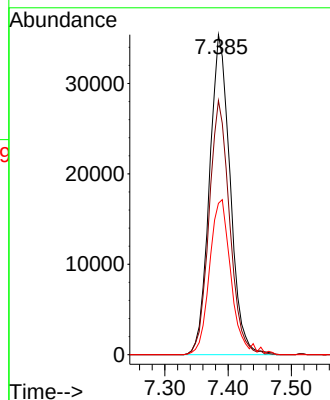
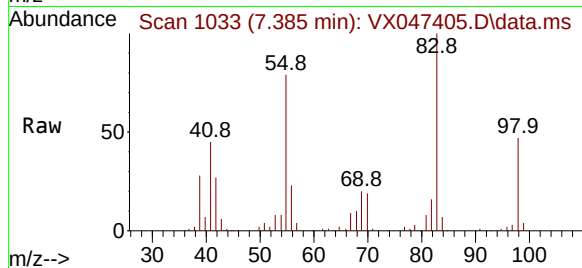
VX0819WBSD01

Tgt Ion:	83	Resp:	80370
Ion	Ratio	Lower	Upper
83	100		
55	79.4	60.0	90.0
98	47.3	37.2	55.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#40

Benzene

Concen: 17.603 ug/l

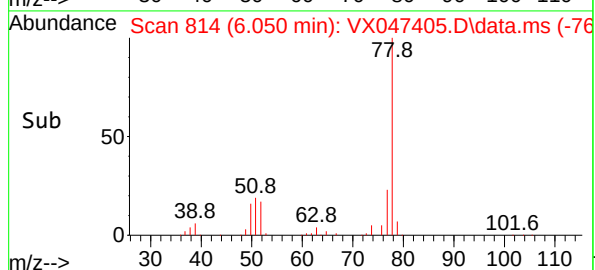
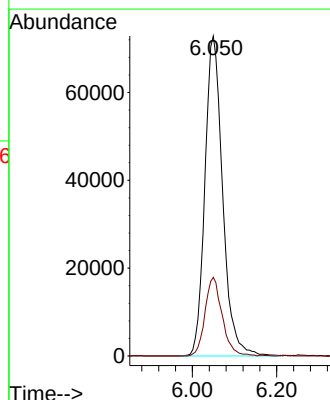
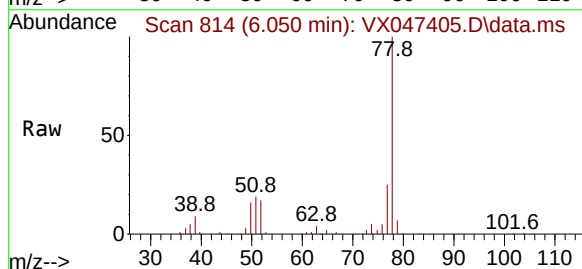
RT: 6.050 min Scan# 814

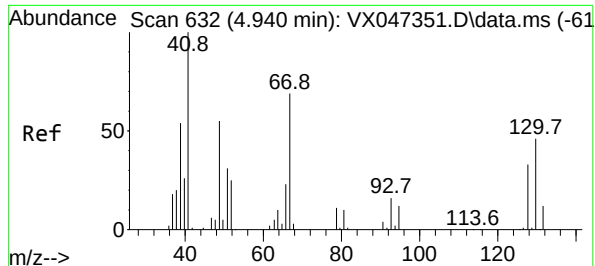
Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

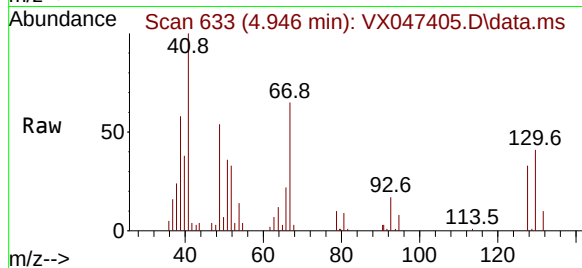
Tgt Ion:	78	Resp:	213254
Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.4





#41
Methacrylonitrile
Concen: 19.037 ug/l
RT: 4.946 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

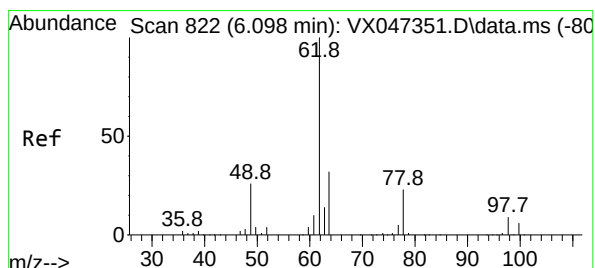
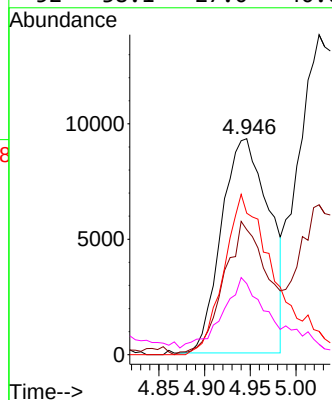
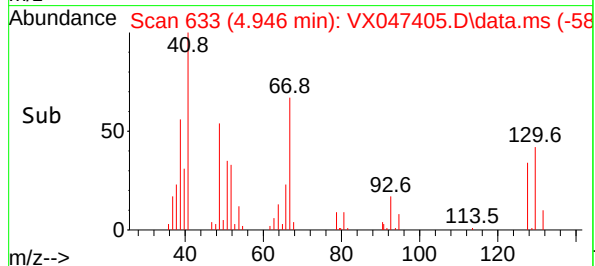
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



Tgt Ion: 41 Resp: 3373
Ion Ratio Lower Upper
41 100
39 56.7 45.4 68.2
67 80.0 64.0 96.0
52 38.1 27.0 40.6

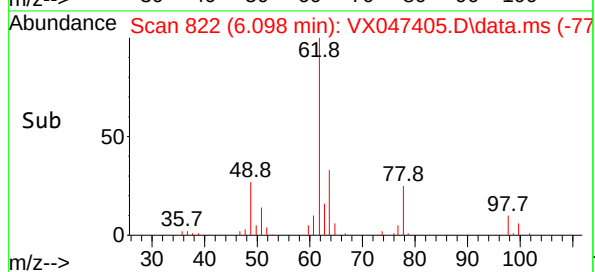
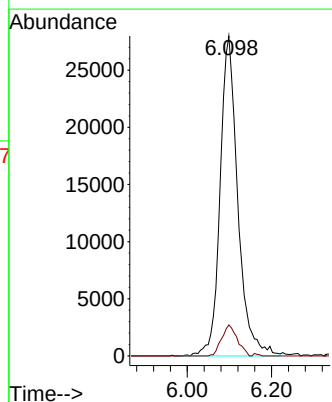
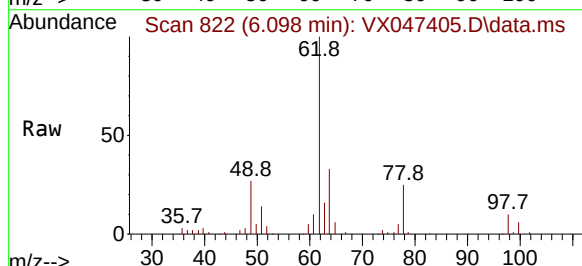
Manual Integrations
APPROVED

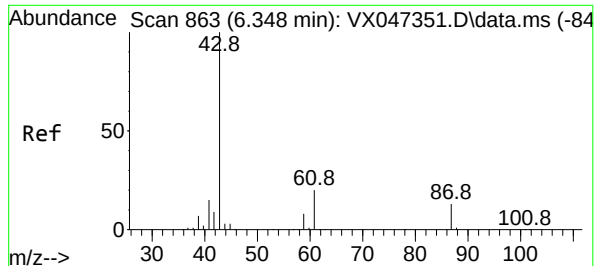
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#42
1,2-Dichloroethane
Concen: 18.964 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 62 Resp: 81377
Ion Ratio Lower Upper
62 100
98 8.6 0.0 18.0





#43

Isopropyl Acetate

Concen: 19.341 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

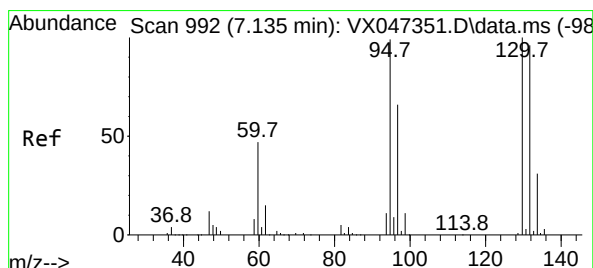
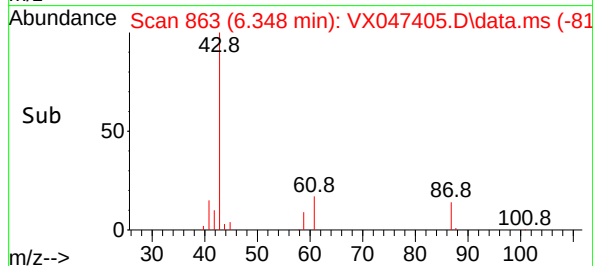
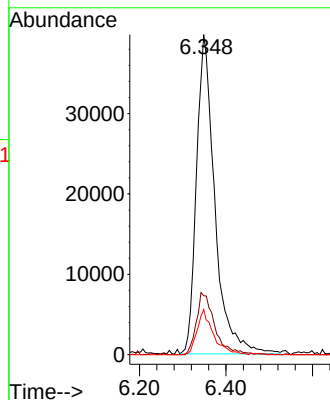
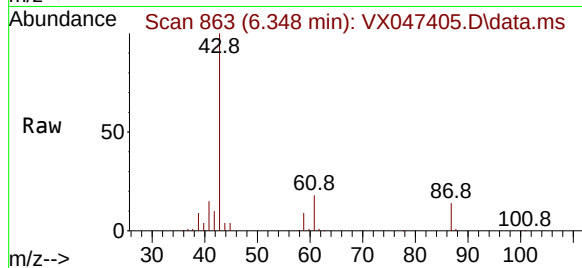
VX0819WBSD01

Tgt Ion:	43	Resp:	116749
Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.4	23.0
87	12.5	10.2	15.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#44

Trichloroethene

Concen: 17.122 ug/l

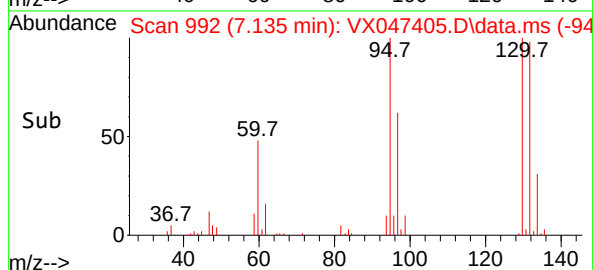
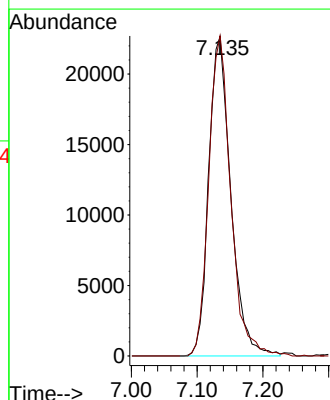
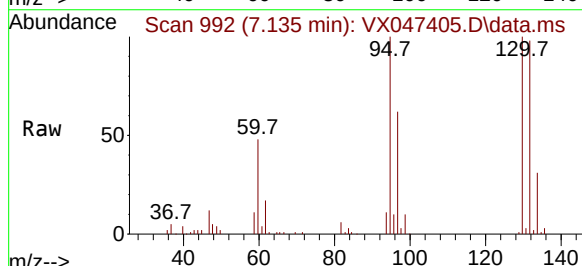
RT: 7.135 min Scan# 992

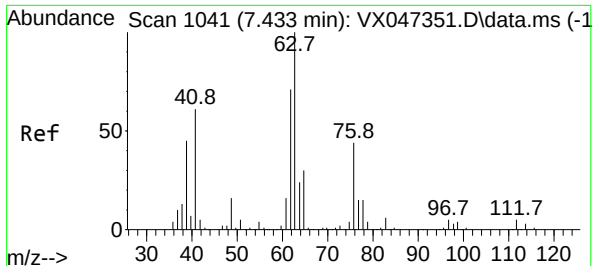
Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Tgt Ion:	130	Resp:	53112
Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	198.6





#45

1,2-Dichloropropane

Concen: 18.271 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 63 Resp: 5545

Ion Ratio Lower Upper

63 100

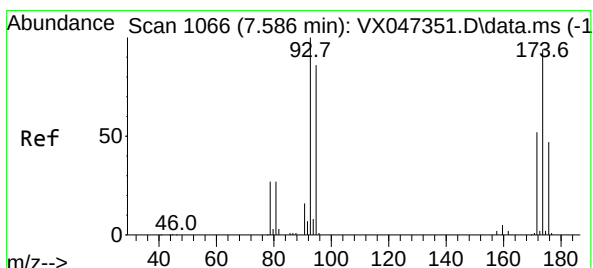
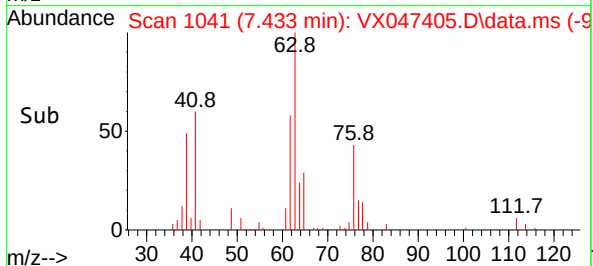
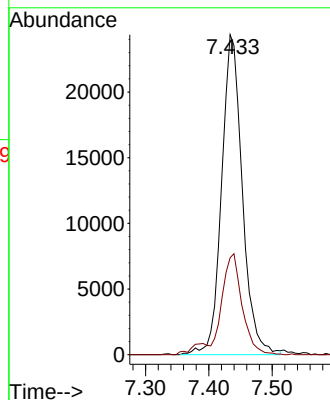
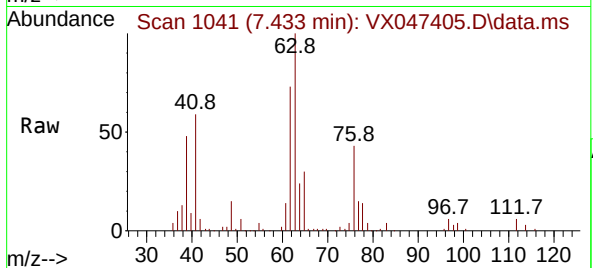
65 30.1 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#46

Dibromomethane

Concen: 18.707 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

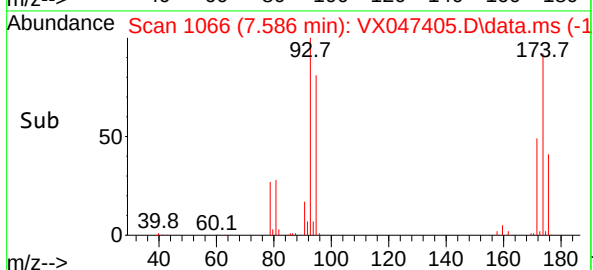
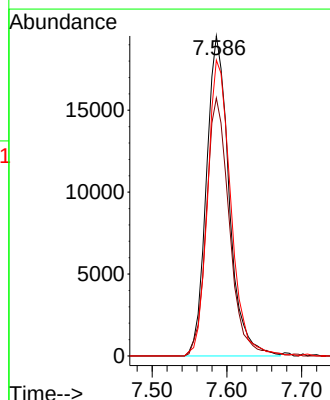
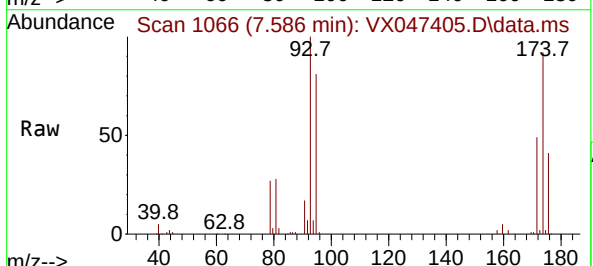
Tgt Ion: 93 Resp: 41218

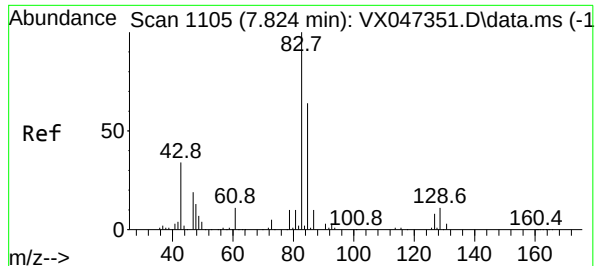
Ion Ratio Lower Upper

93 100

95 81.7 68.0 102.0

174 94.8 75.8 113.6





#47

Bromodichloromethane

Concen: 18.123 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

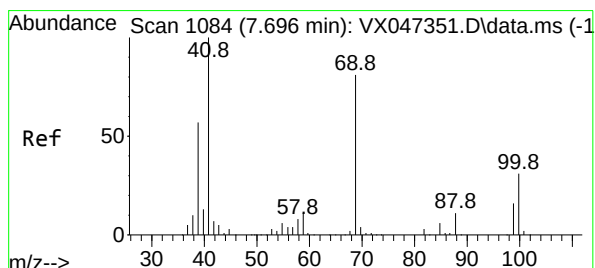
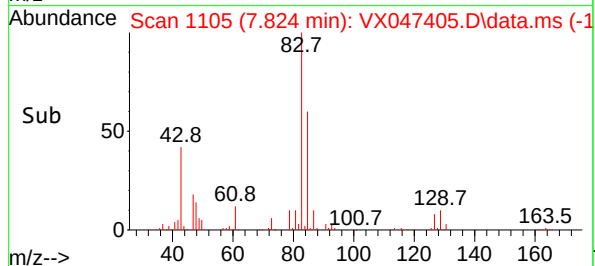
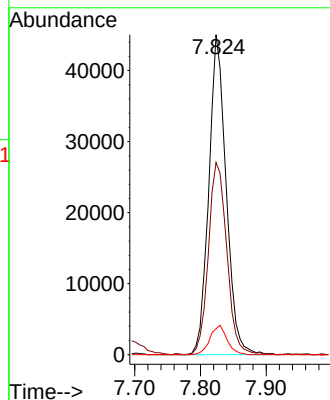
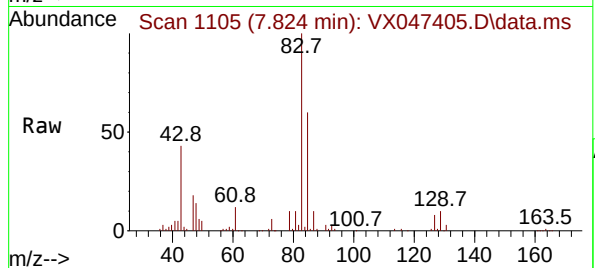
Tgt Ion:	83	Resp:	8278
Ion	Ratio	Lower	Upper
83	100		
85	60.7	51.0	76.6
127	8.1	7.0	10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#48

Methyl methacrylate

Concen: 18.928 ug/l

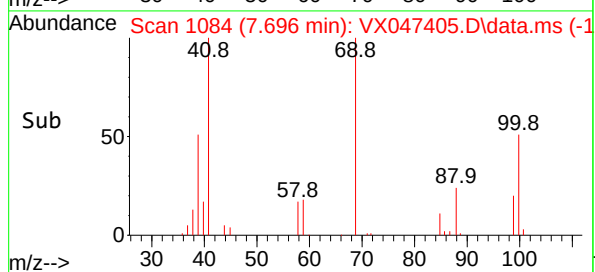
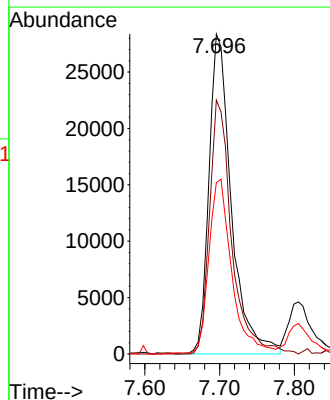
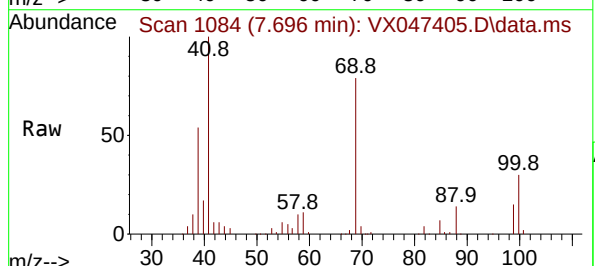
RT: 7.696 min Scan# 1084

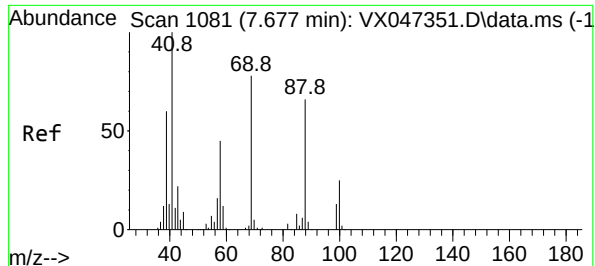
Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Tgt Ion:	41	Resp:	59306
Ion	Ratio	Lower	Upper
41	100		
69	78.4	65.0	97.4
39	56.0	45.7	68.5





#49

1,4-Dioxane

Concen: 421.610 ug/l

RT: 7.683 min Scan# 1081

Delta R.T. 0.006 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 88 Resp: 1284

Ion Ratio Lower Upper

88 100

43 36.5 32.4 48.6

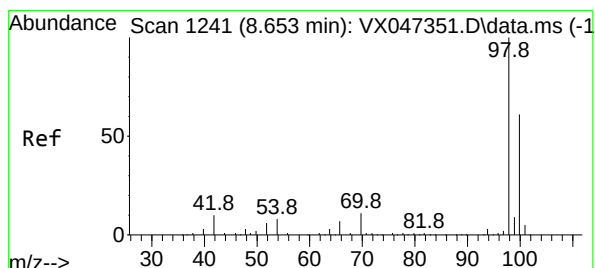
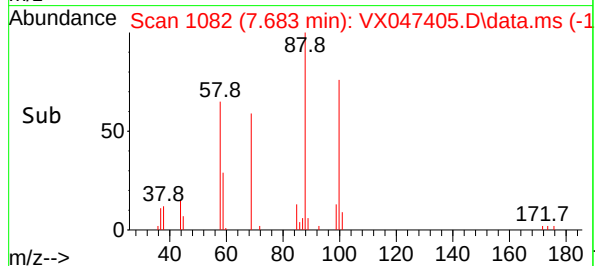
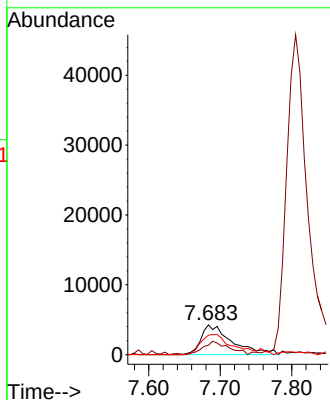
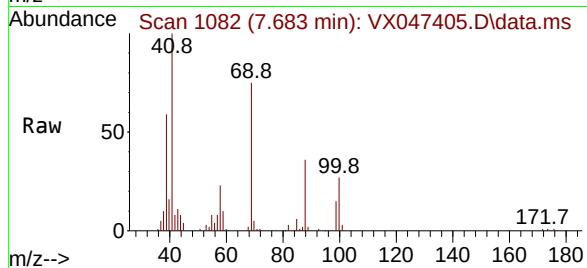
58 67.3 56.9 85.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#50

Toluene-d8

Concen: 50.736 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047405.D

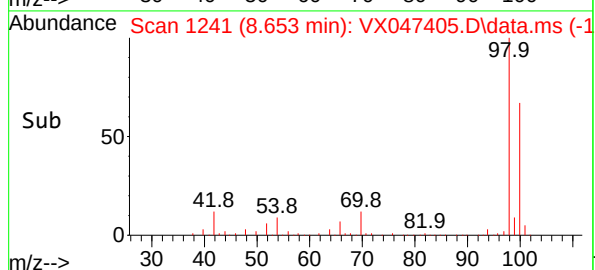
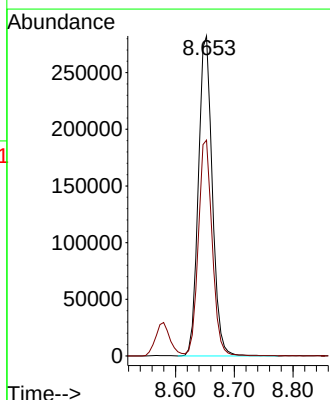
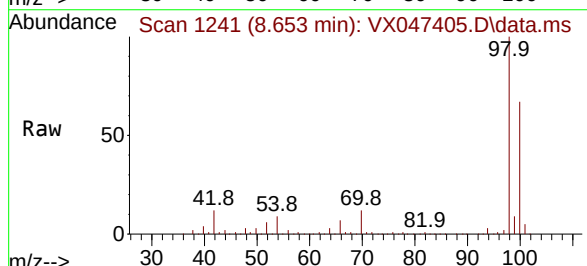
Acq: 19 Aug 2025 12:37

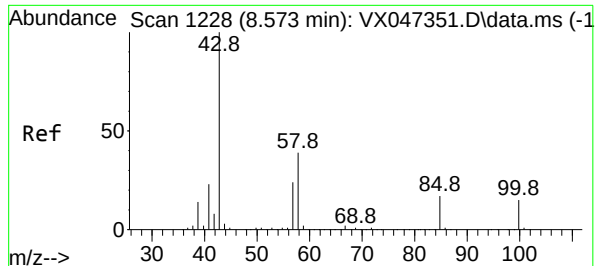
Tgt Ion: 98 Resp: 464961

Ion Ratio Lower Upper

98 100

100 67.1 53.9 80.9





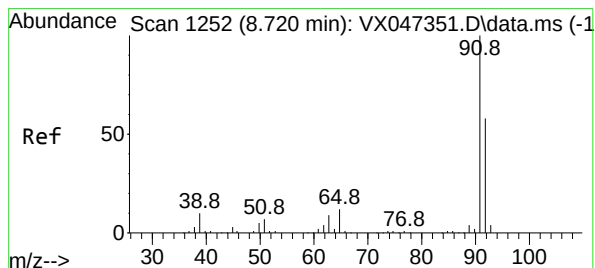
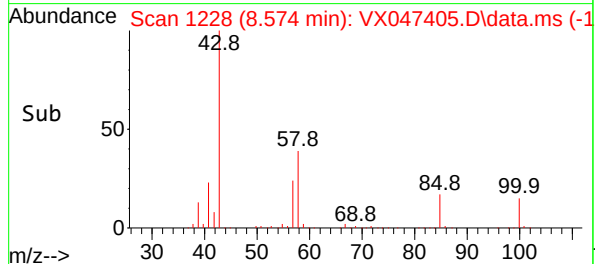
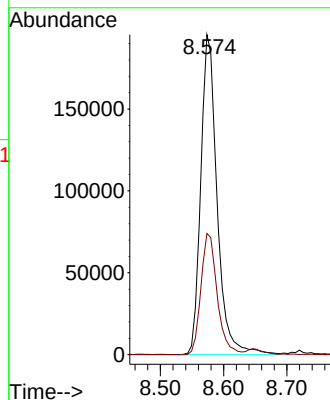
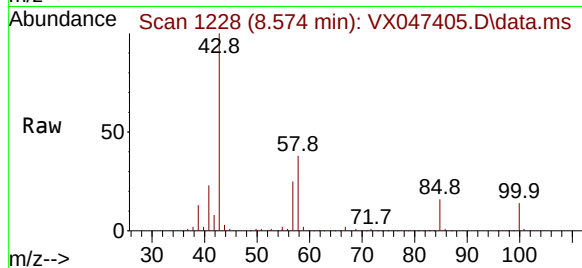
#51
4-Methyl-2-Pentanone
Concen: 101.138 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion: 43 Resp: 35132
Ion Ratio Lower Upper
43 100
58 37.7 31.2 46.8

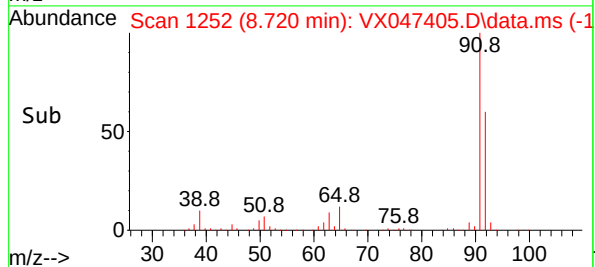
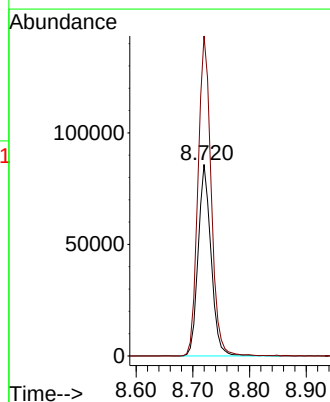
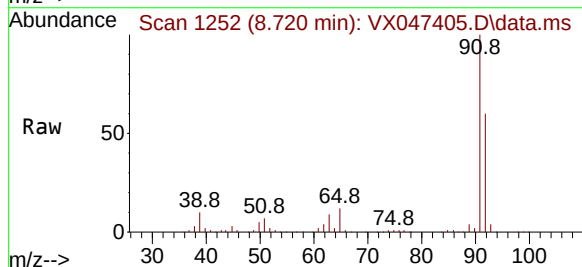
Manual Integrations
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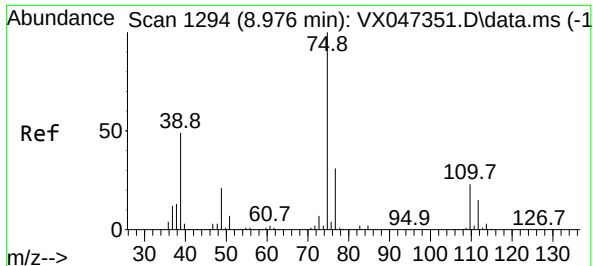
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#52
Toluene
Concen: 18.071 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 92 Resp: 135282
Ion Ratio Lower Upper
92 100
91 170.5 136.3 204.5





#53

t-1,3-Dichloropropene

Concen: 18.642 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 75 Resp: 74320

Ion Ratio Lower Upper

75 100

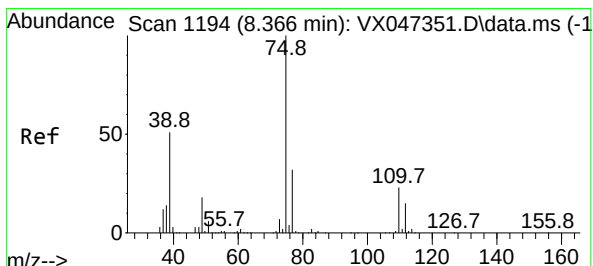
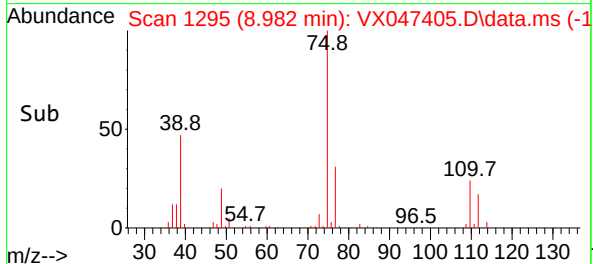
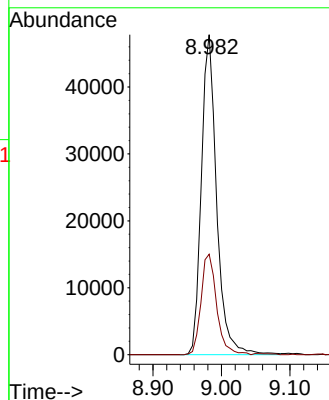
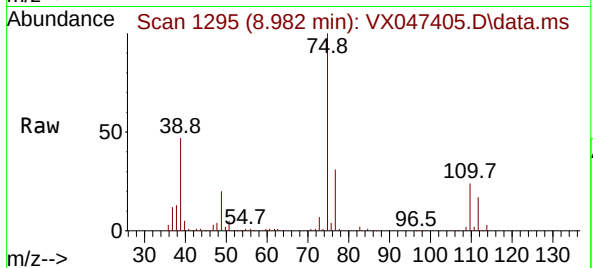
77 31.4 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#54

cis-1,3-Dichloropropene

Concen: 18.206 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

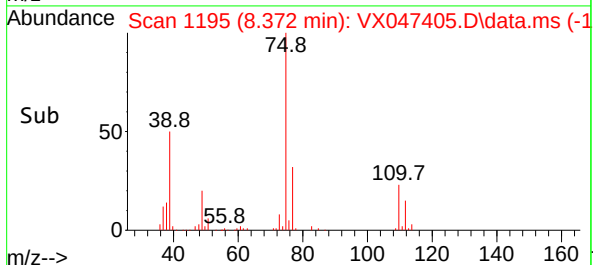
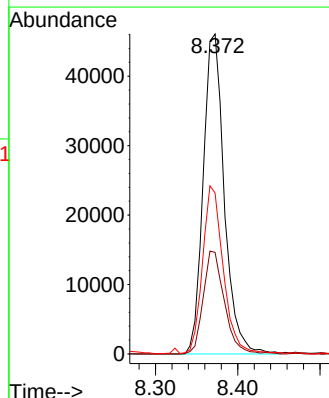
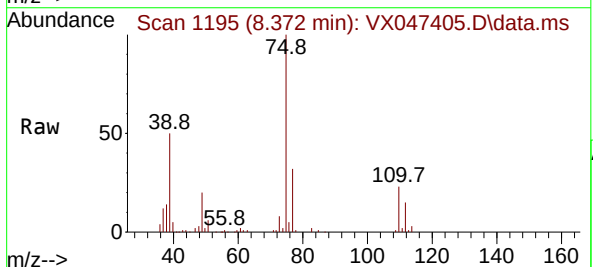
Tgt Ion: 75 Resp: 82154

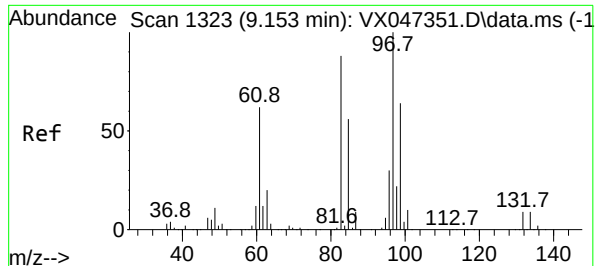
Ion Ratio Lower Upper

75 100

77 31.8 25.6 38.4

39 48.4 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 19.197 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 97 Resp: 5456

Ion Ratio Lower Upper

97 100

83 84.3 70.6 106.0

85 55.6 44.7 67.1

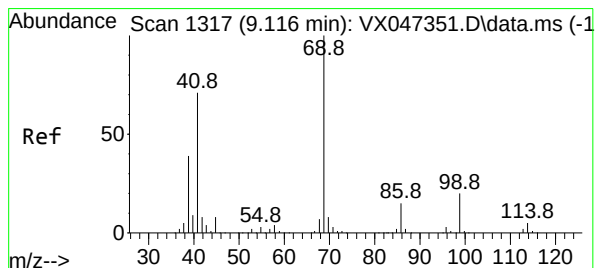
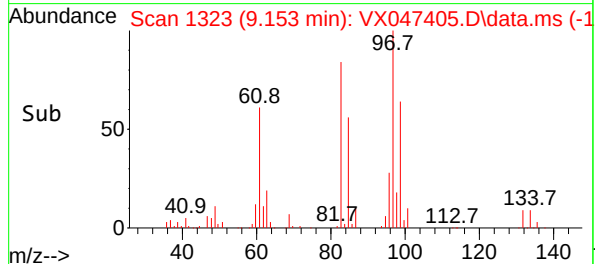
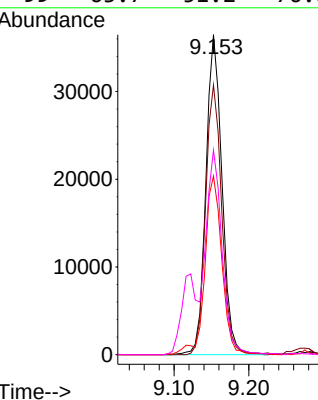
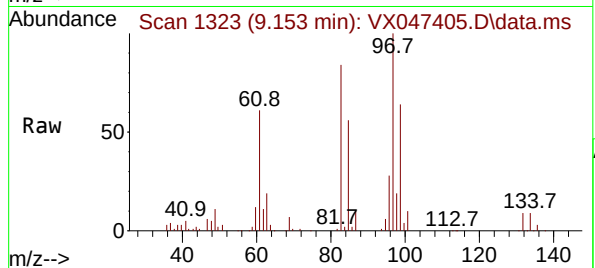
99 63.7 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#56

Ethyl methacrylate

Concen: 19.288 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

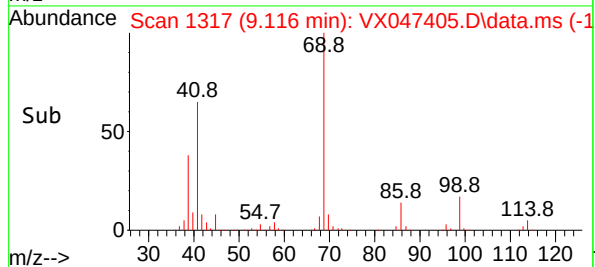
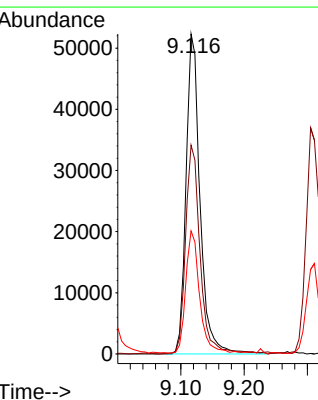
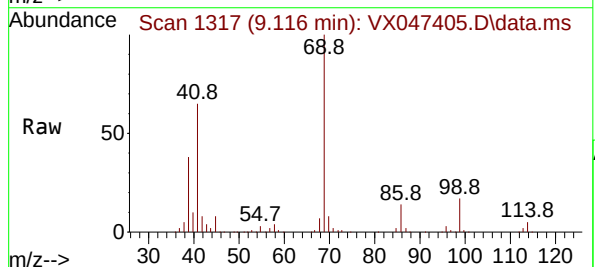
Tgt Ion: 69 Resp: 80828

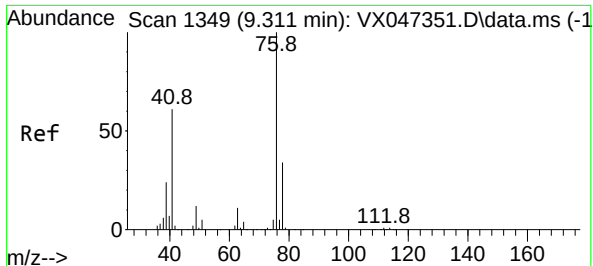
Ion Ratio Lower Upper

69 100

41 67.2 55.3 82.9

39 37.7 30.2 45.2





#57

1,3-Dichloropropane

Concen: 19.145 ug/l

RT: 9.311 min Scan# 11349

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 76 Resp: 9272

Ion Ratio Lower Upper

76 100

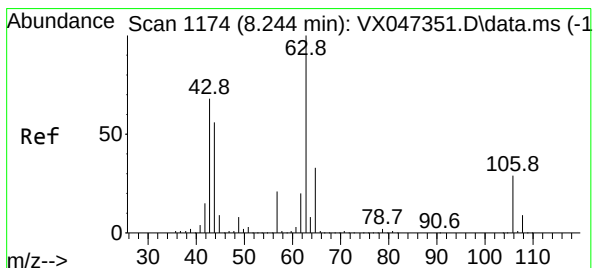
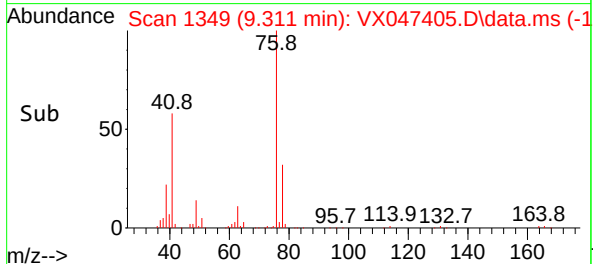
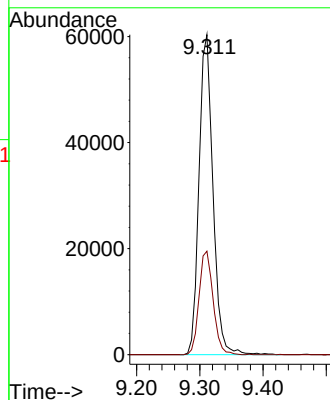
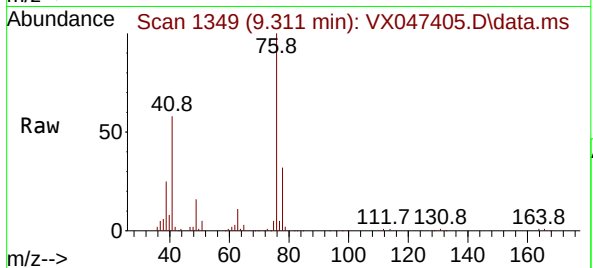
78 32.6 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#58

2-Chloroethyl Vinyl ether

Concen: 100.511 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047405.D

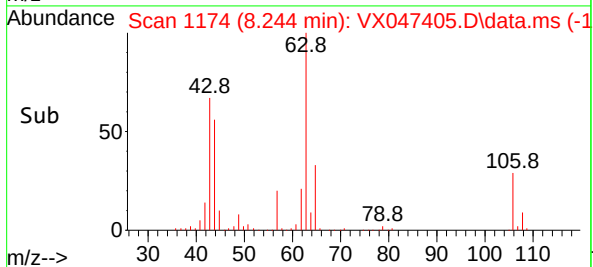
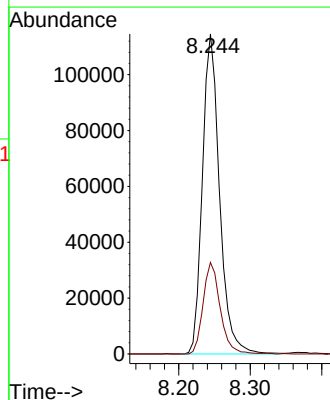
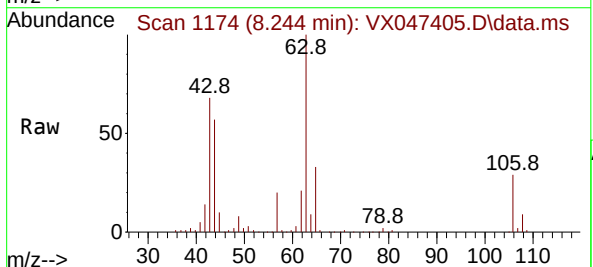
Acq: 19 Aug 2025 12:37

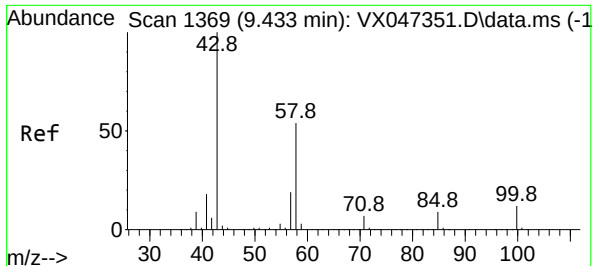
Tgt Ion: 63 Resp: 190782

Ion Ratio Lower Upper

63 100

106 28.5 22.8 34.2





#59

2-Hexanone

Concen: 100.355 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 43 Resp: 24113

Ion Ratio Lower Upper

43 100

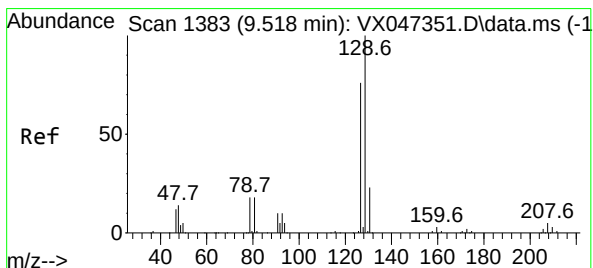
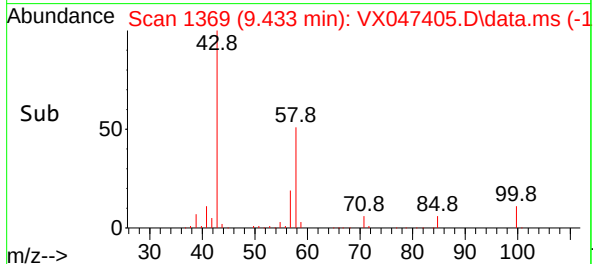
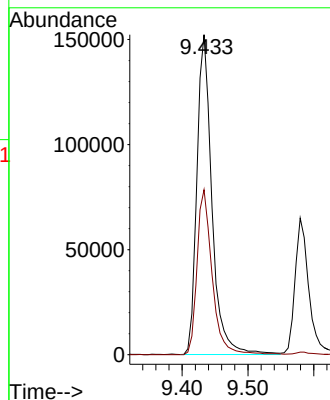
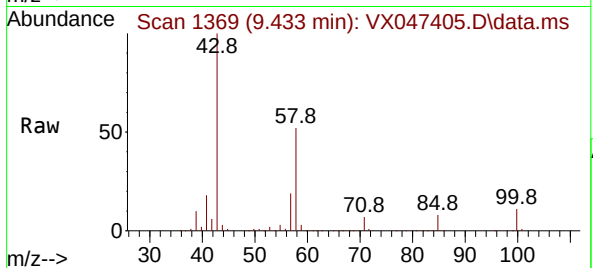
58 52.0 26.9 80.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#60

Dibromochloromethane

Concen: 18.644 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047405.D

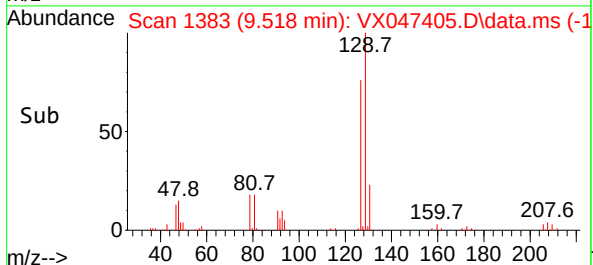
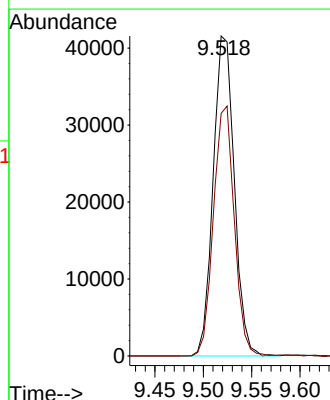
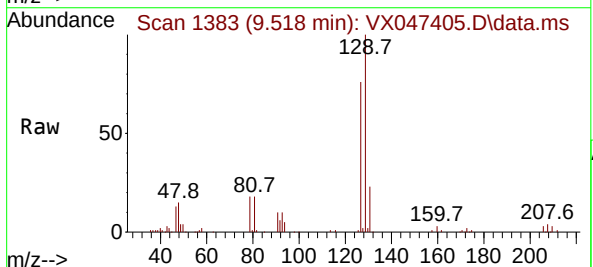
Acq: 19 Aug 2025 12:37

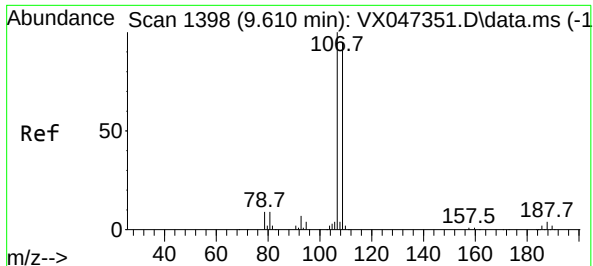
Tgt Ion:129 Resp: 62976

Ion Ratio Lower Upper

129 100

127 77.0 38.9 116.6





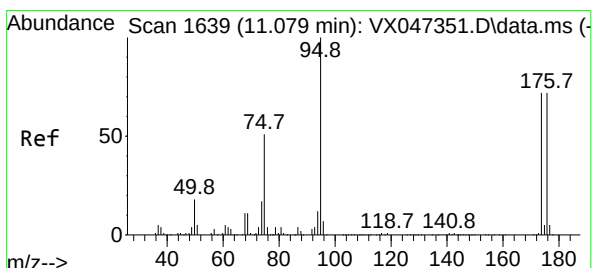
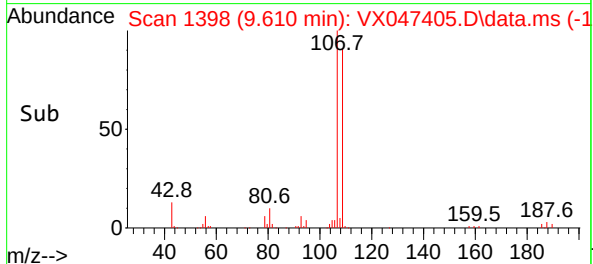
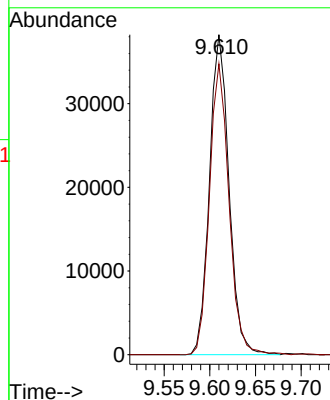
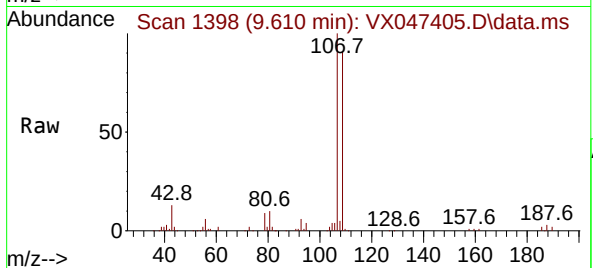
#61
1,2-Dibromoethane
Concen: 19.354 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion:107 Resp: 56729
Ion Ratio Lower Upper
107 100
109 91.0 76.2 114.2

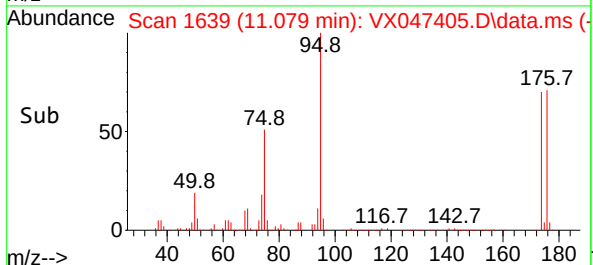
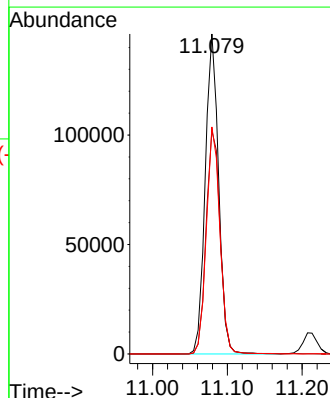
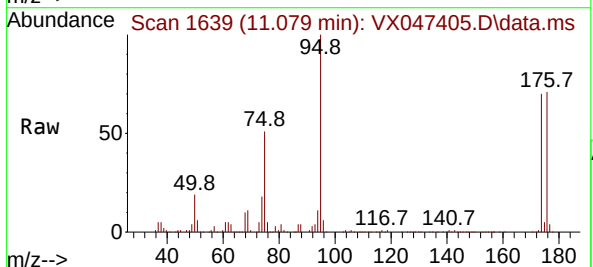
Manual Integrations
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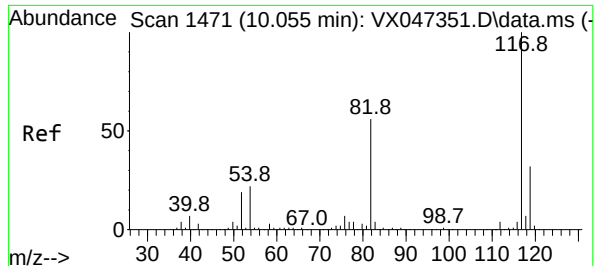
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#62
4-Bromofluorobenzene
Concen: 53.678 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

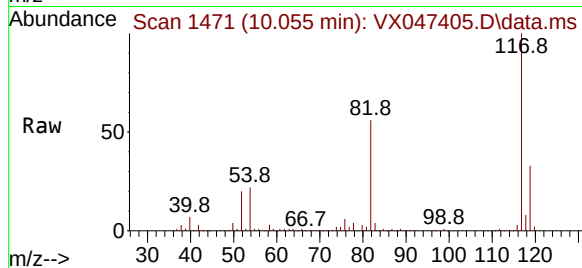
Tgt Ion: 95 Resp: 181529
Ion Ratio Lower Upper
95 100
174 73.2 0.0 148.0
176 71.7 0.0 145.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

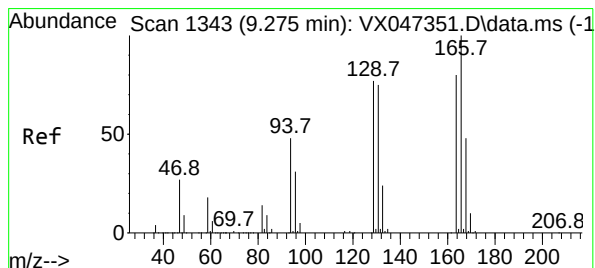
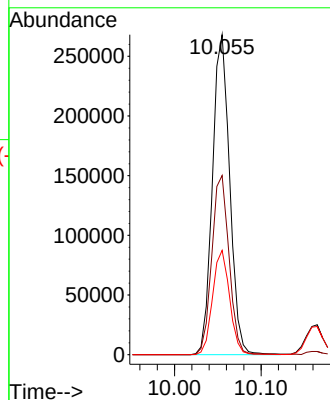
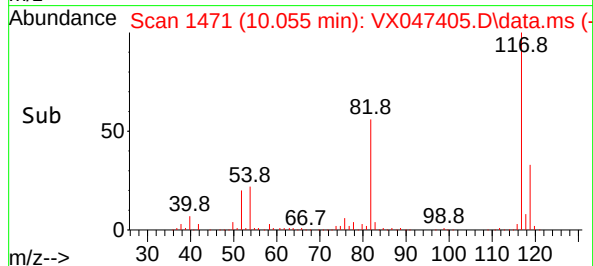
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



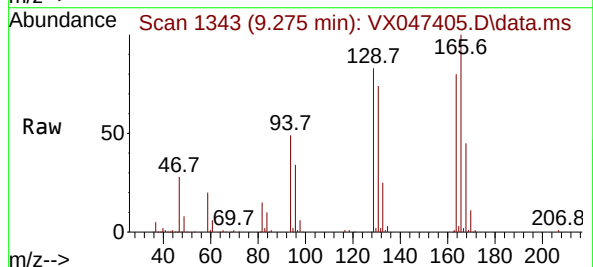
Tgt Ion:117 Resp: 371284
Ion Ratio Lower Upper
117 100
82 56.0 45.0 67.4
119 32.6 25.8 38.8

Manual Integrations
APPROVED

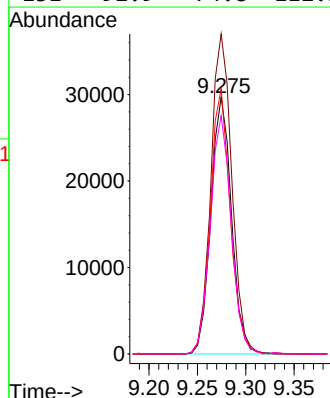
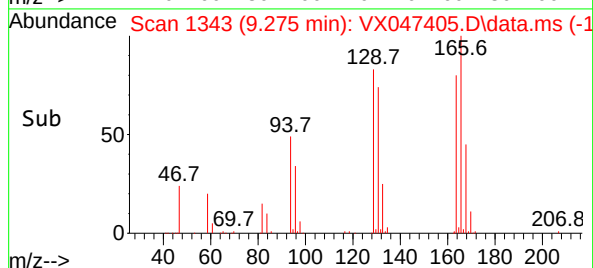
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

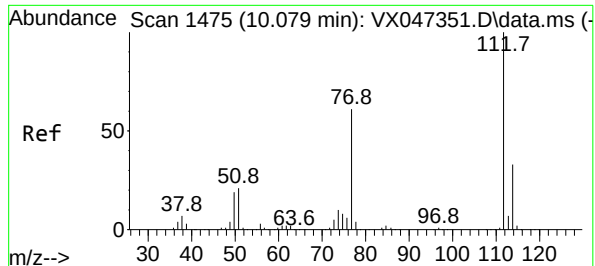


#64
Tetrachloroethene
Concen: 16.386 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37



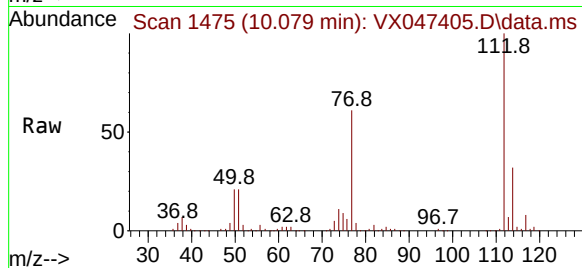
Tgt Ion:164 Resp: 44006
Ion Ratio Lower Upper
164 100
166 124.7 100.3 150.5
129 103.3 77.7 116.5
131 92.9 74.8 112.2





#65
Chlorobenzene
Concen: 17.108 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

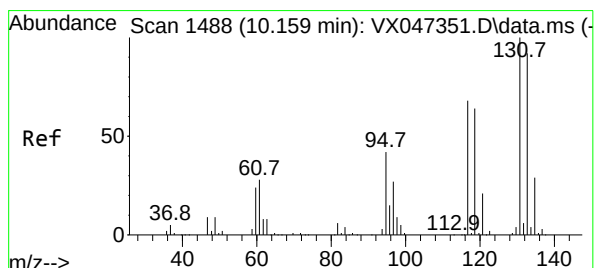
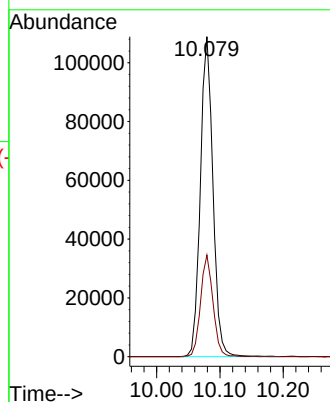
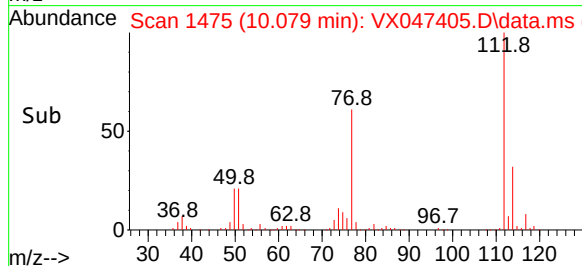
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



Tgt Ion:112 Resp: 150949
Ion Ratio Lower Upper
112 100
114 31.7 26.4 39.6

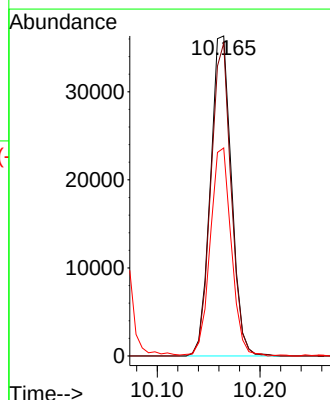
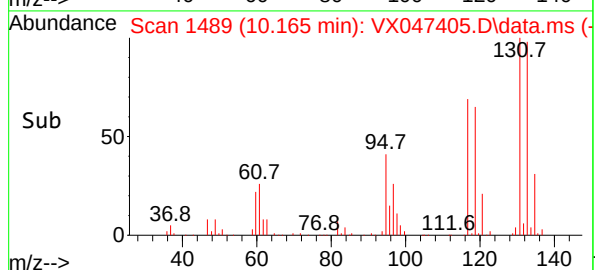
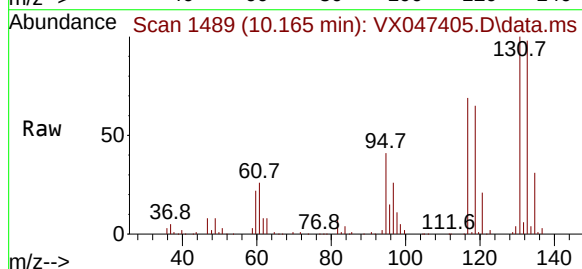
Manual Integrations
APPROVED

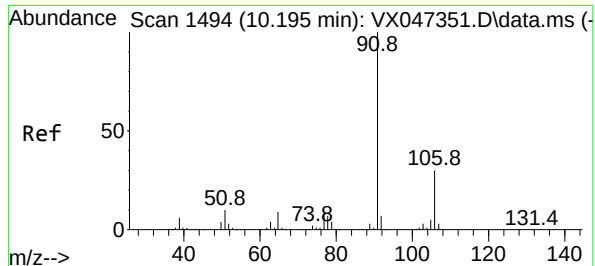
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 17.298 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

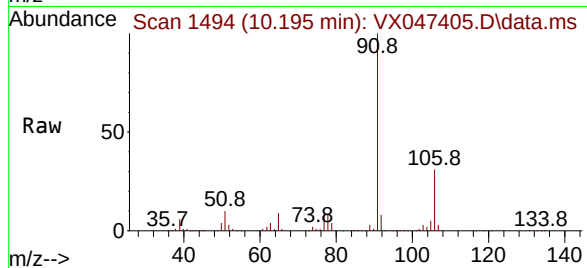
Tgt Ion:131 Resp: 51594
Ion Ratio Lower Upper
131 100
133 94.3 47.6 142.9
119 64.7 32.3 96.8





#67
Ethyl Benzene
Concen: 16.847 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

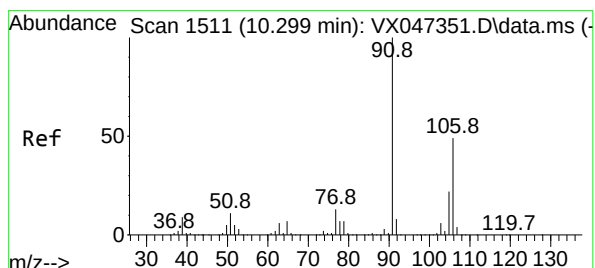
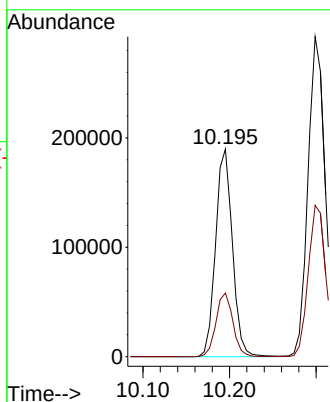
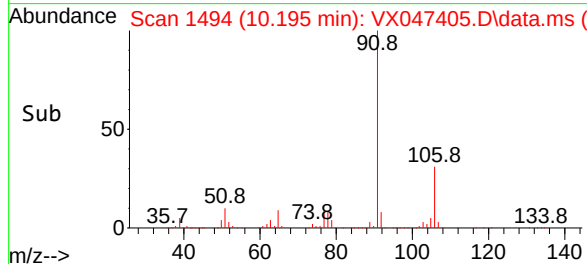
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



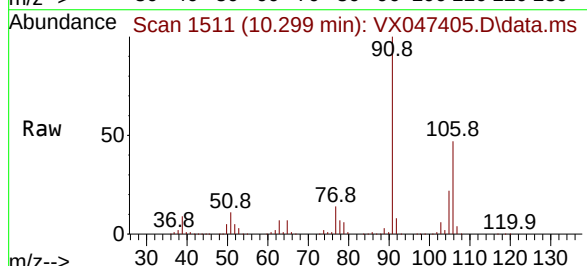
Tgt Ion: 91 Resp: 255830
Ion Ratio Lower Upper
91 100
106 30.6 24.4 36.6

Manual Integrations
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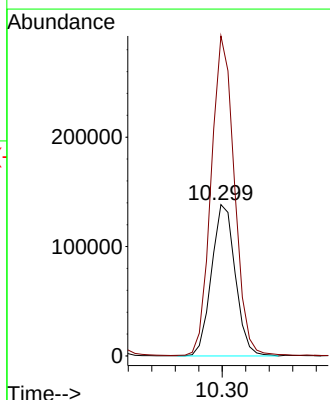
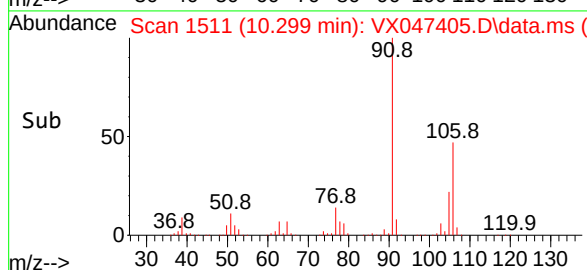
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

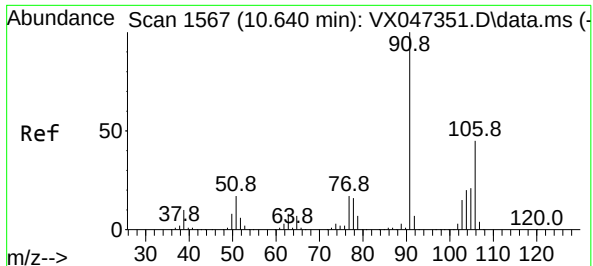


#68
m/p-Xylenes
Concen: 34.348 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37



Tgt Ion:106 Resp: 194493
Ion Ratio Lower Upper
106 100
91 208.5 164.7 247.1





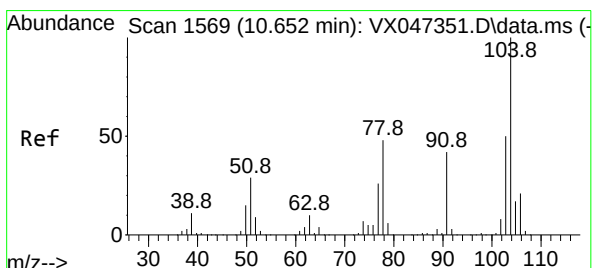
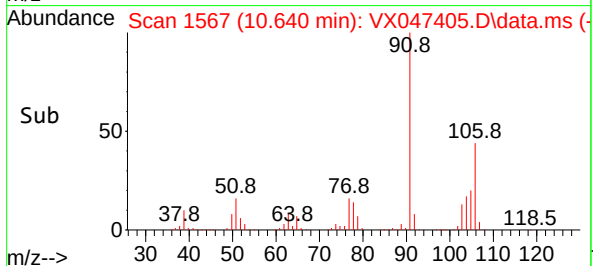
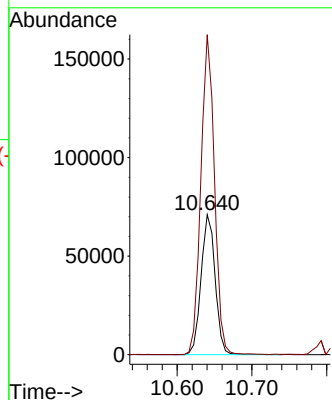
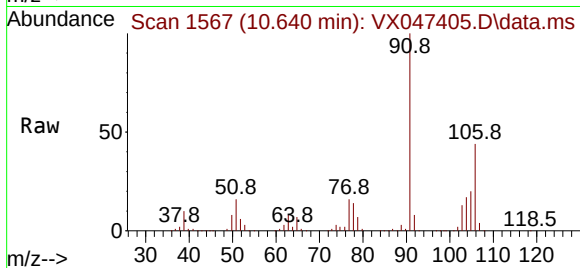
#69
o-Xylene
Concen: 17.062 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion:106 Resp: 9297
Ion Ratio Lower Upper
106 100
91 220.8 110.6 331.8

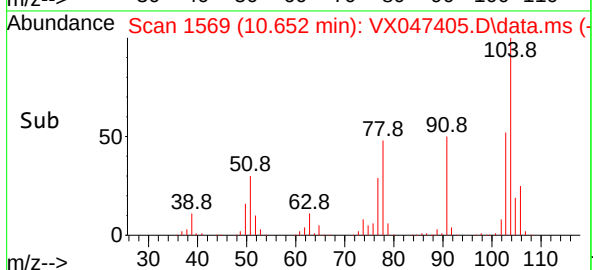
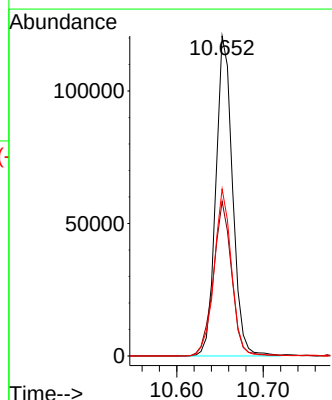
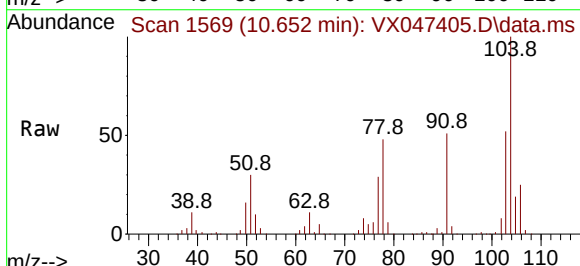
Manual Integrations
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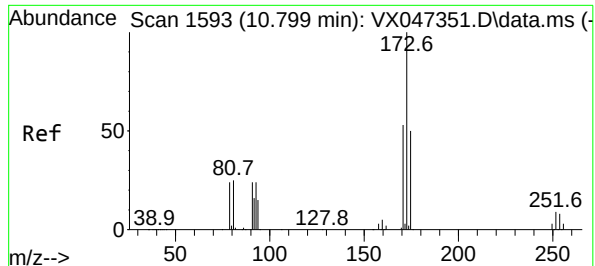
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#70
Styrene
Concen: 17.620 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion:104 Resp: 162232
Ion Ratio Lower Upper
104 100
78 52.8 41.8 62.8
103 54.5 43.6 65.4





#71

Bromoform

Concen: 18.222 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion:173 Resp: 4083

Ion Ratio Lower Upper

173 100

175 47.6 24.4 73.4

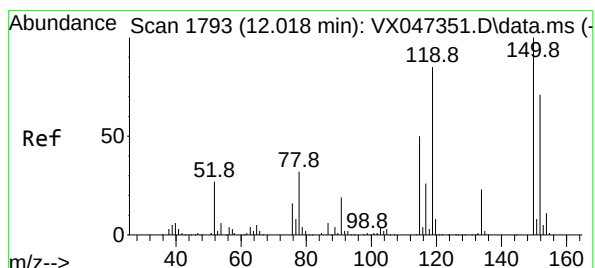
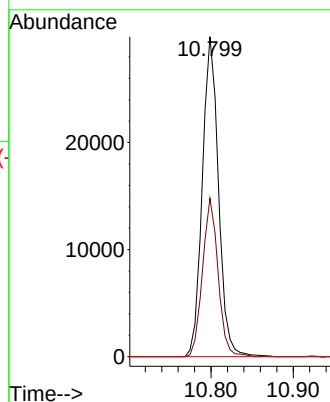
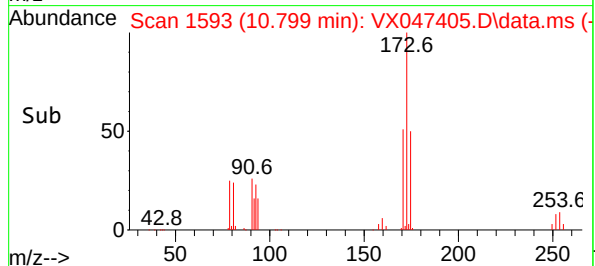
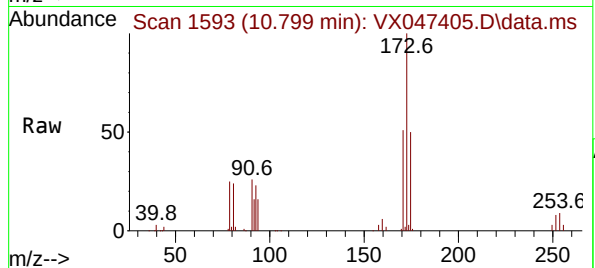
254 0.0 0.1 0.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

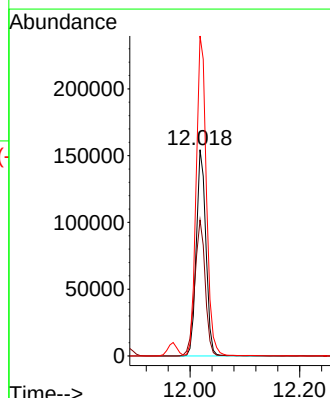
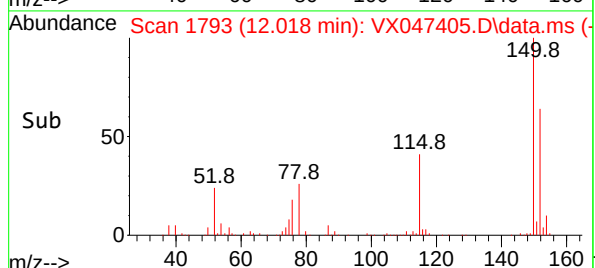
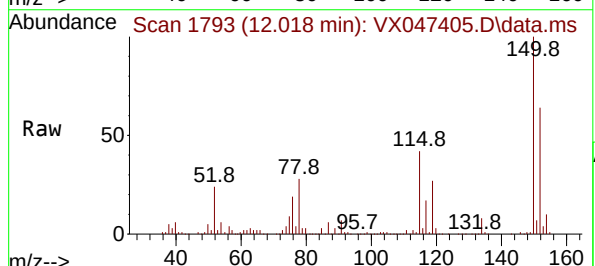
Tgt Ion:152 Resp: 189413

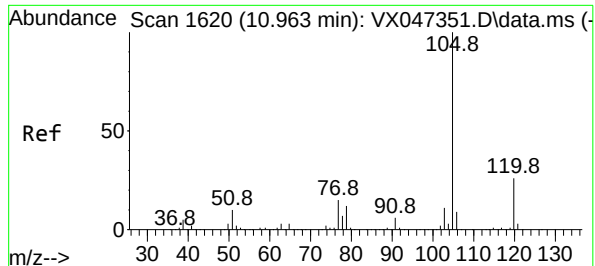
Ion Ratio Lower Upper

152 100

115 71.6 44.6 133.8

150 165.0 0.0 349.8





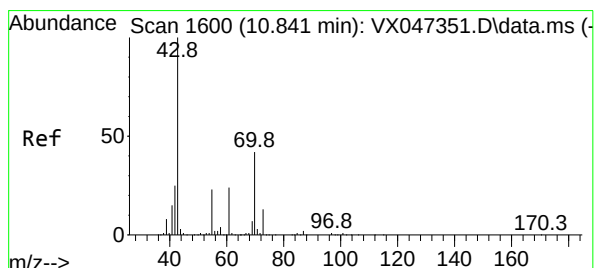
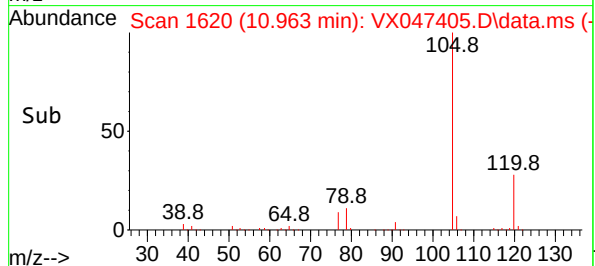
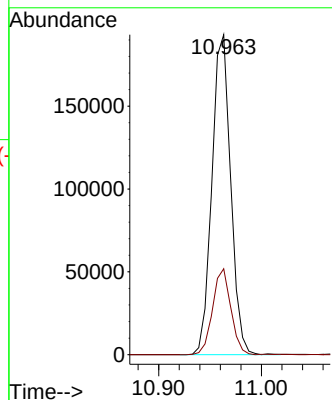
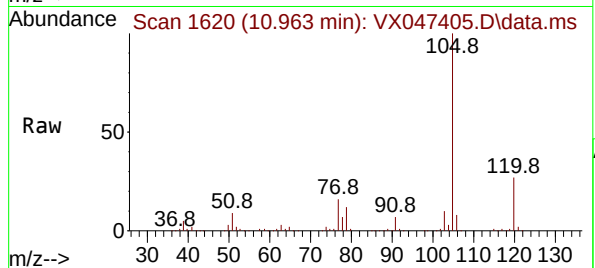
#73
Isopropylbenzene
Concen: 16.480 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion: 105 Resp: 244270
Ion Ratio Lower Upper
105 100
120 26.1 12.9 38.6

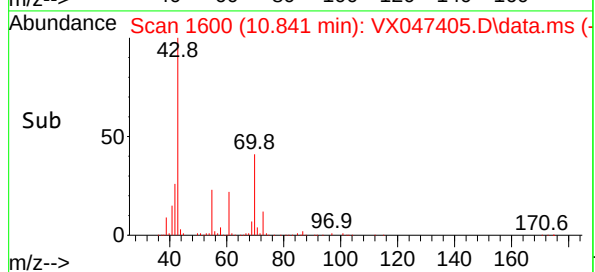
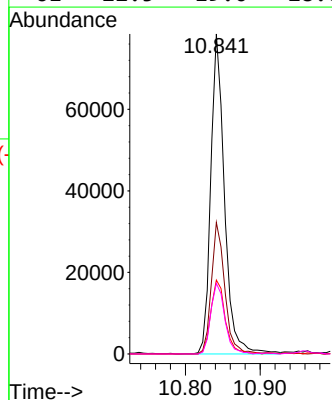
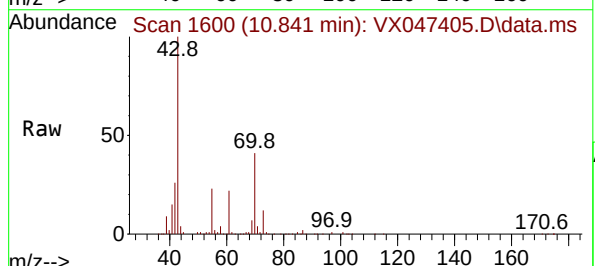
Manual Integrations
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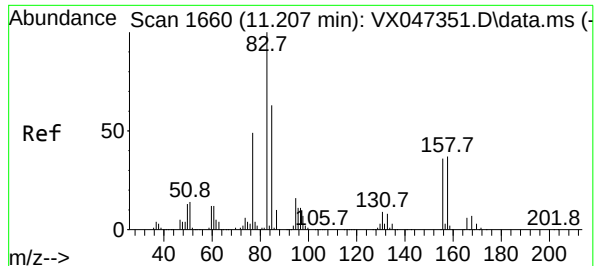
Reviewed By : John Carlone 08/20/2025
Supervised By : Mahesh Dadoda 08/20/2025



#74
N-ethyl acetate
Concen: 17.799 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 43 Resp: 100184
Ion Ratio Lower Upper
43 100
70 40.4 33.1 49.7
55 24.4 19.0 28.6
61 22.5 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 18.332 ug/l

RT: 11.207 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 83 Resp: 7978

Ion Ratio Lower Upper

83 100

131 9.9 5.0 15.0

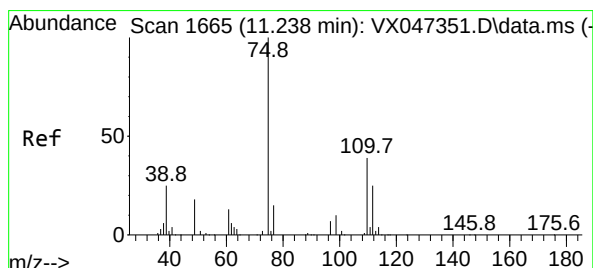
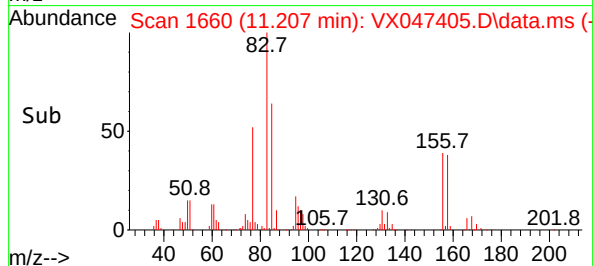
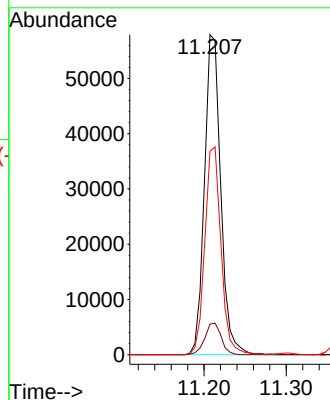
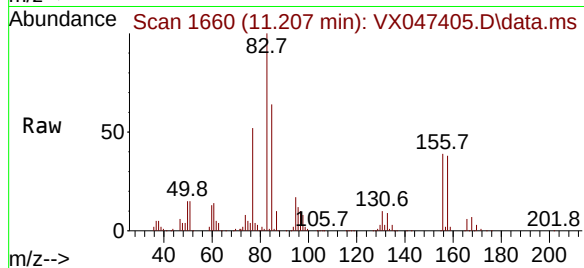
85 64.4 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#76

1,2,3-Trichloropropane

Concen: 17.179 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX047405.D

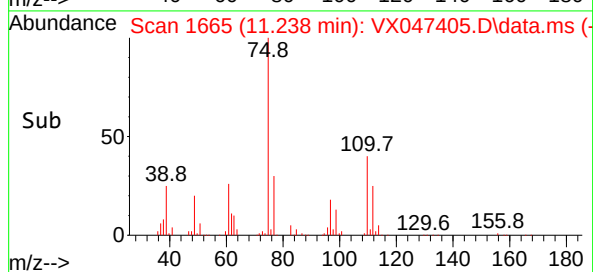
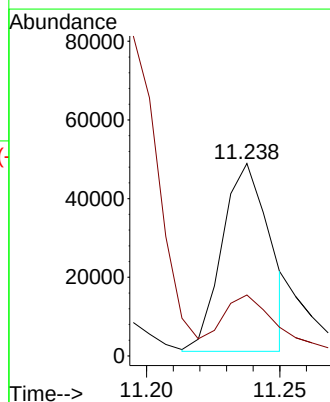
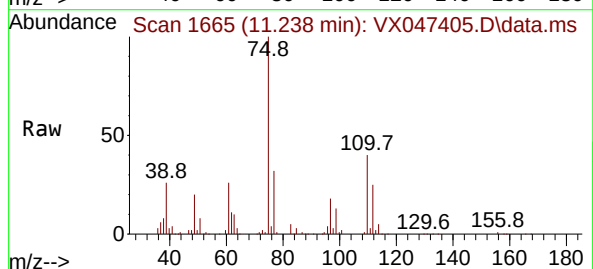
Acq: 19 Aug 2025 12:37

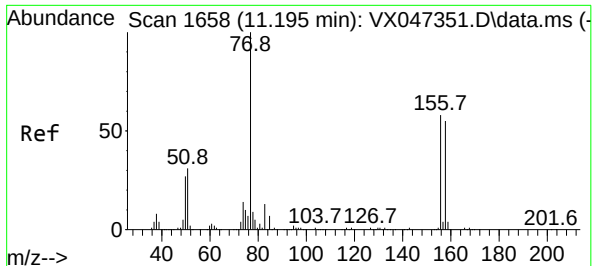
Tgt Ion: 75 Resp: 59679

Ion Ratio Lower Upper

75 100

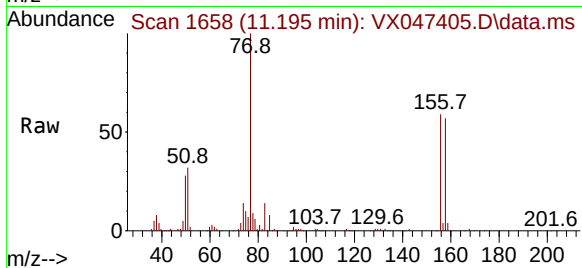
77 40.7 19.4 58.2





#77
Bromobenzene
Concen: 17.475 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

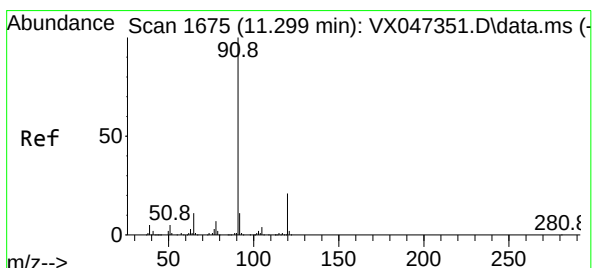
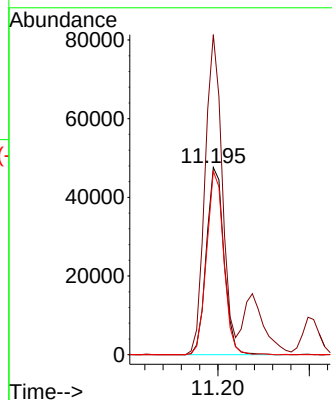
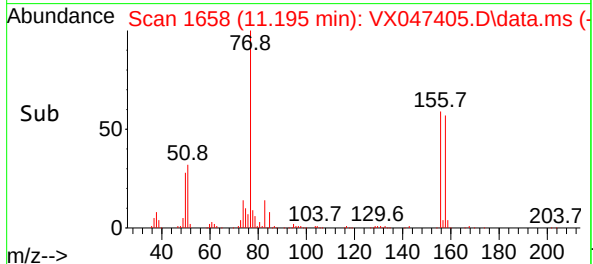
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



Tgt Ion: 156 Resp: 6325
Ion Ratio Lower Upper
156 100
77 167.2 86.3 258.9
158 95.6 48.0 144.2

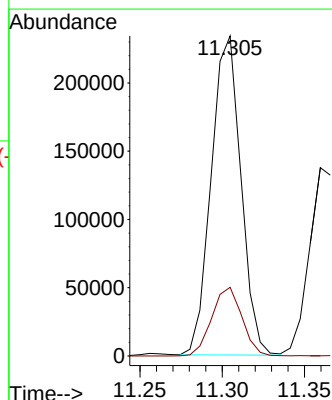
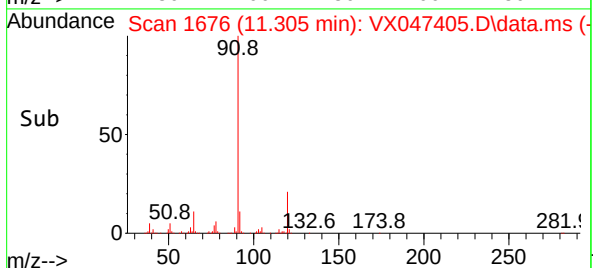
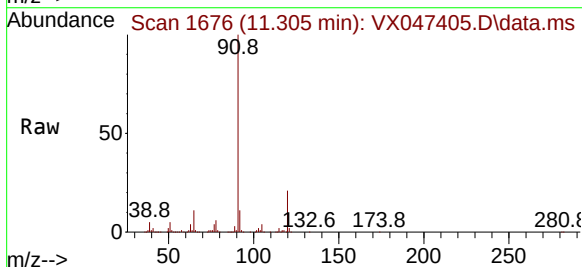
Manual Integrations
APPROVED

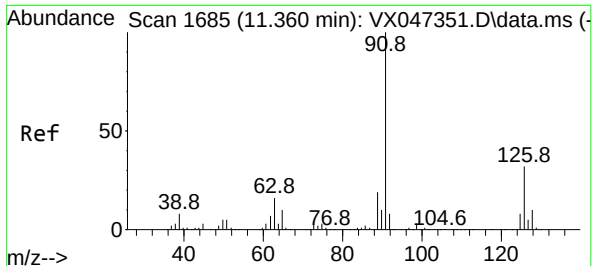
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#78
n-propylbenzene
Concen: 16.583 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion: 91 Resp: 293555
Ion Ratio Lower Upper
91 100
120 22.0 11.0 33.0





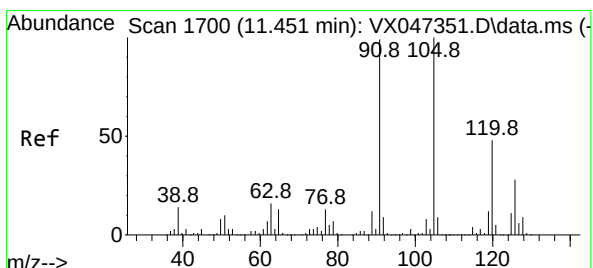
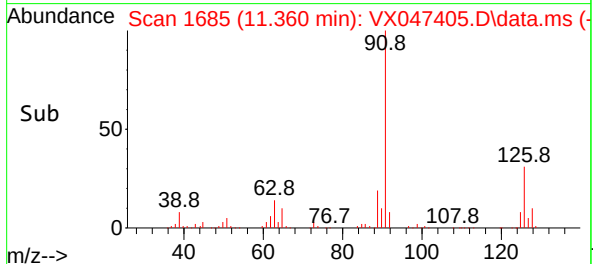
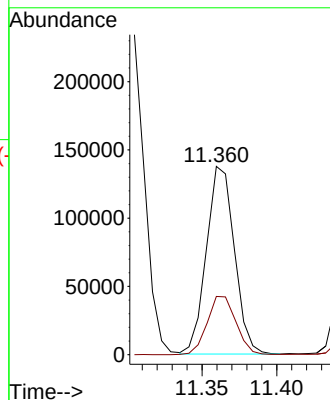
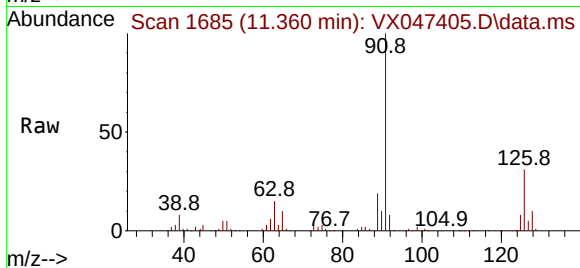
#79
2-Chlorotoluene
Concen: 16.766 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion: 91 Resp: 179419
Ion Ratio Lower Upper
91 100
126 32.0 16.7 50.1

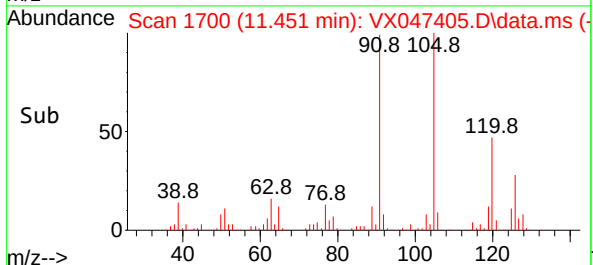
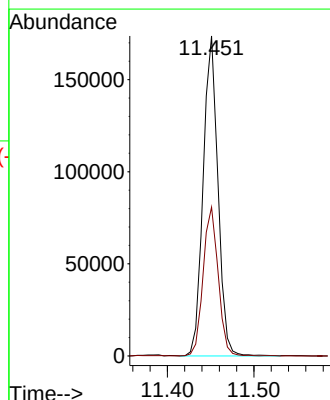
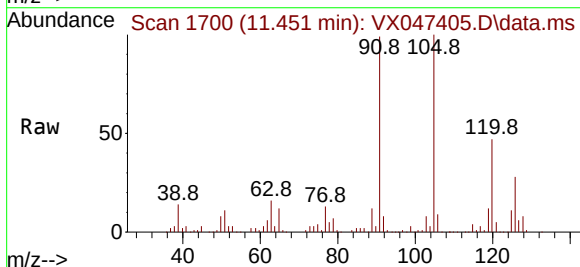
Manual Integrations
APPROVED

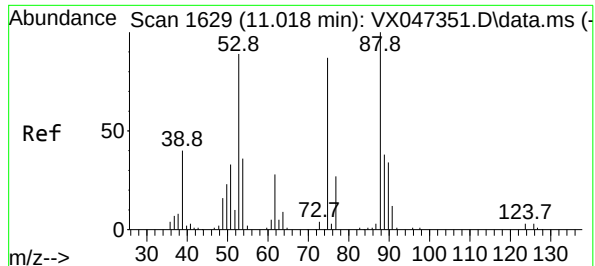
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#80
1,3,5-Trimethylbenzene
Concen: 16.919 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Tgt Ion:105 Resp: 206343
Ion Ratio Lower Upper
105 100
120 47.0 23.9 71.7





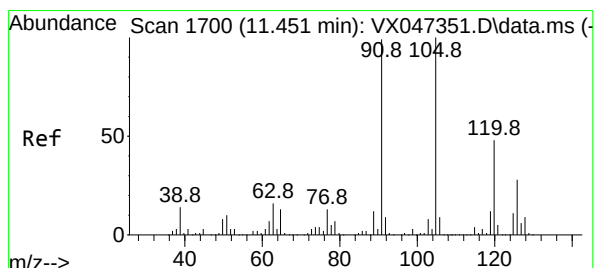
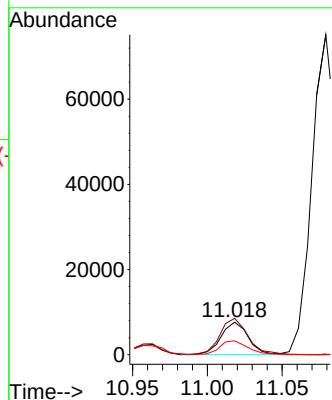
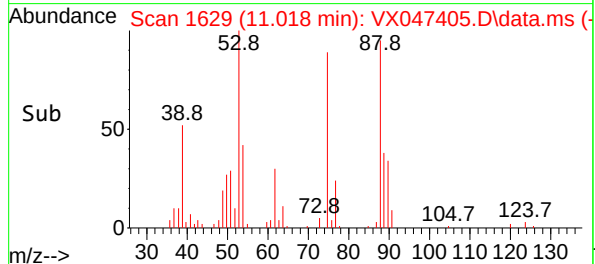
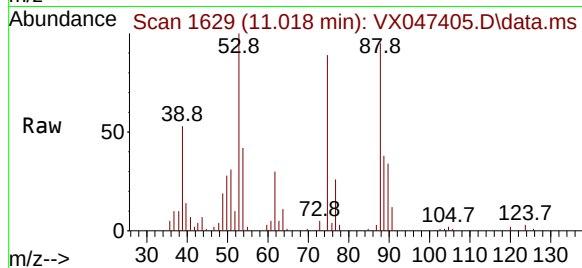
#81
trans-1,4-Dichloro-2-butene
Concen: 18.086 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	115.4	85.2	127.8
89	44.6	36.7	55.1

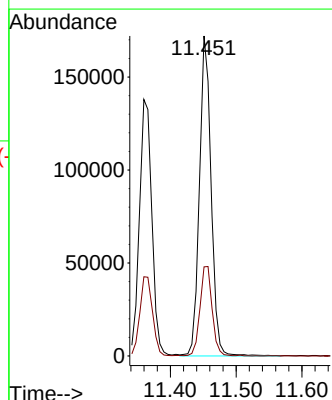
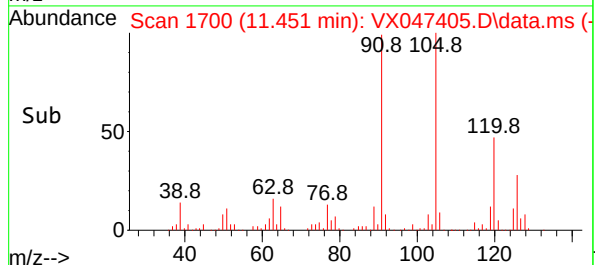
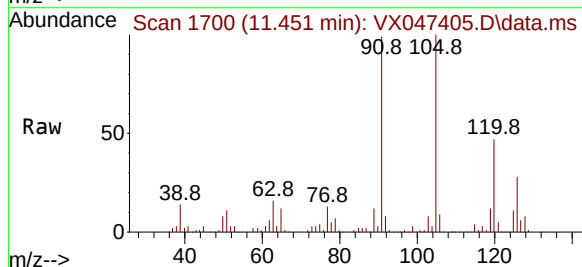
Manual Integrations
APPROVED

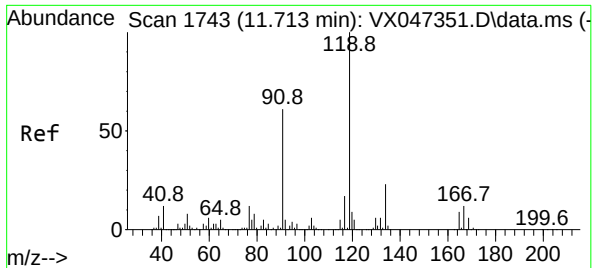
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#82
4-Chlorotoluene
Concen: 16.839 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

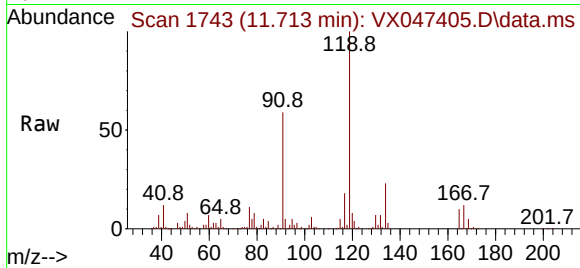
Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.4	43.0





#83
tert-Butylbenzene
Concen: 16.688 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

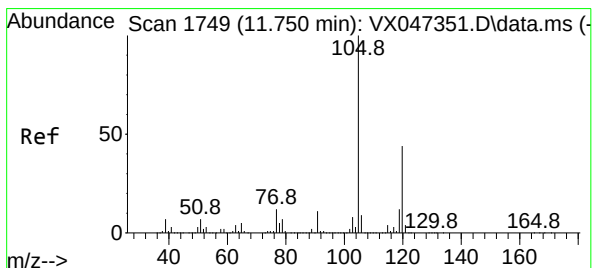
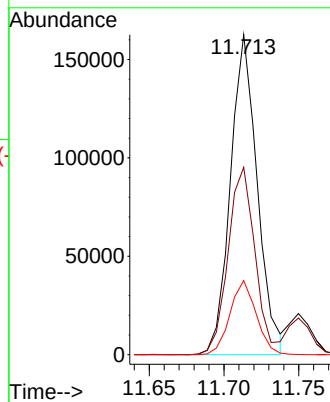
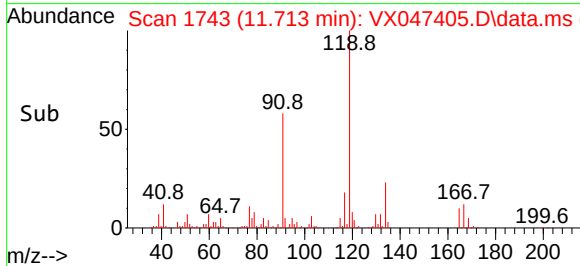
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



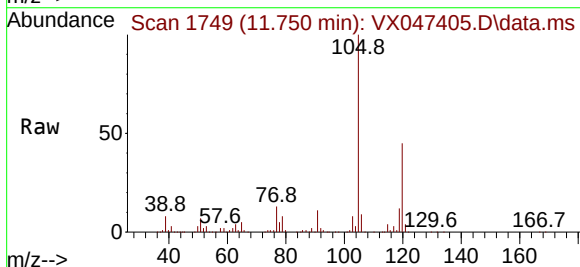
Tgt Ion:119 Resp: 20304
Ion Ratio Lower Upper
119 100
91 59.3 29.1 87.4
134 22.7 11.3 33.9

Manual Integrations
APPROVED

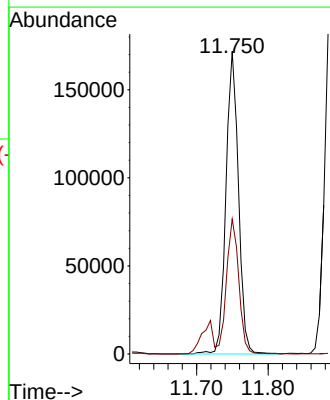
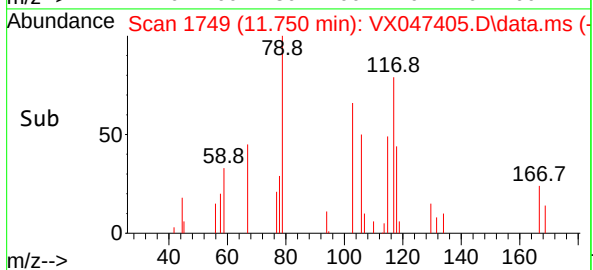
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

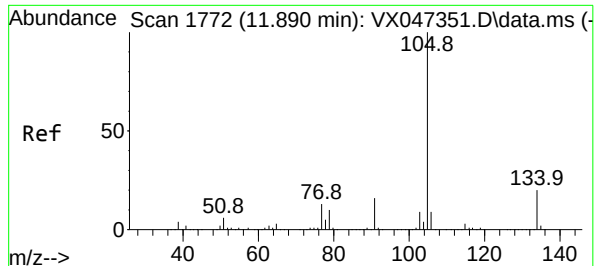


#84
1,2,4-Trimethylbenzene
Concen: 17.098 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37



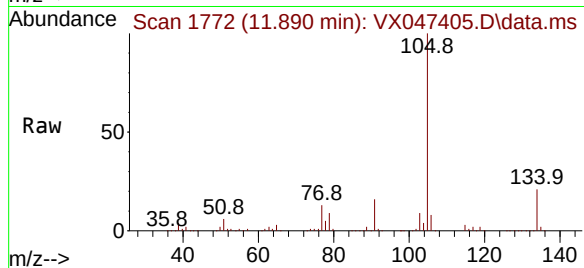
Tgt Ion:105 Resp: 208526
Ion Ratio Lower Upper
105 100
120 44.1 21.9 65.7





#85
sec-Butylbenzene
Concen: 16.692 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

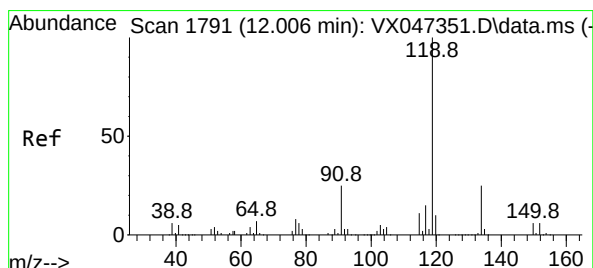
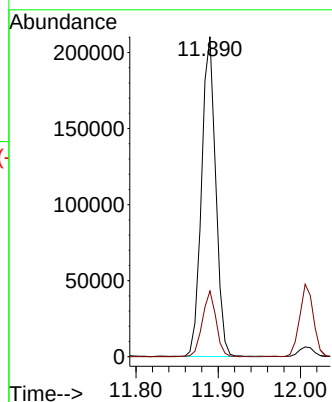
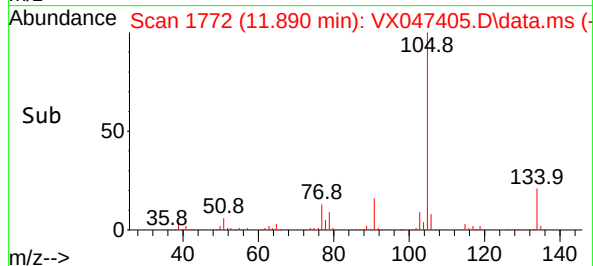
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



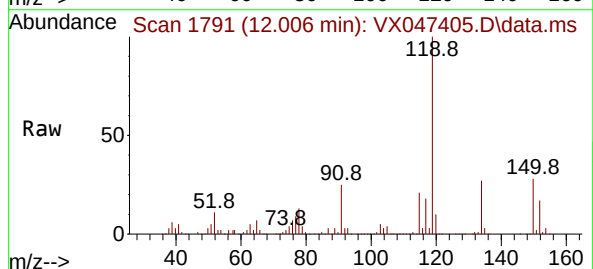
Tgt Ion:105 Resp: 251738
Ion Ratio Lower Upper
105 100
134 19.9 9.8 29.5

Manual Integrations
APPROVED

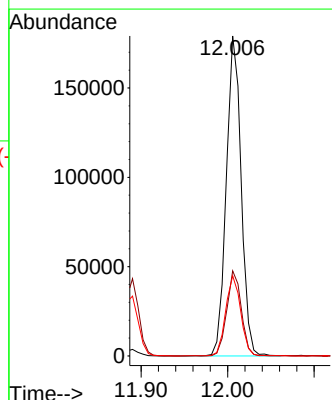
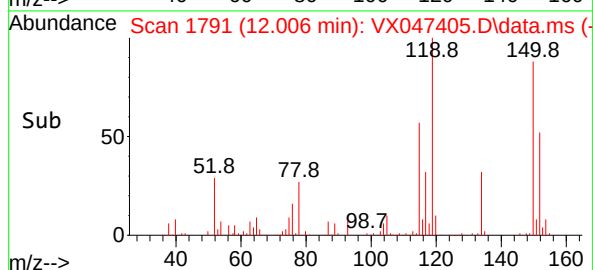
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

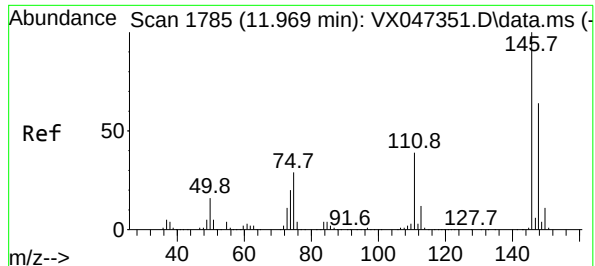


#86
p-Isopropyltoluene
Concen: 16.732 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37



Tgt Ion:119 Resp: 213521
Ion Ratio Lower Upper
119 100
134 26.1 12.8 38.4
91 25.5 12.4 37.4





#87

1,3-Dichlorobenzene

Concen: 17.148 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion:146 Resp: 11857

Ion Ratio Lower Upper

146 100

111 41.2 20.6 61.8

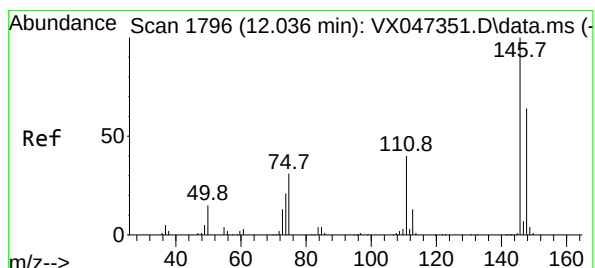
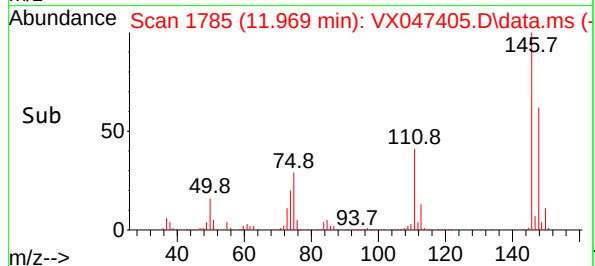
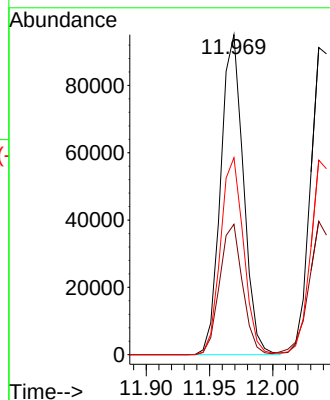
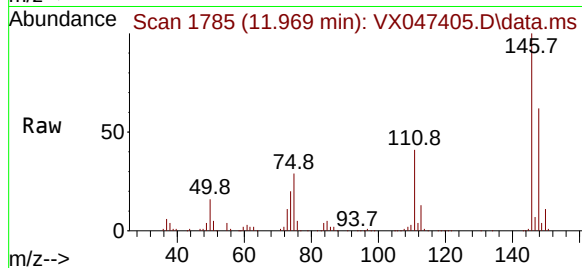
148 62.6 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#88

1,4-Dichlorobenzene

Concen: 16.684 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

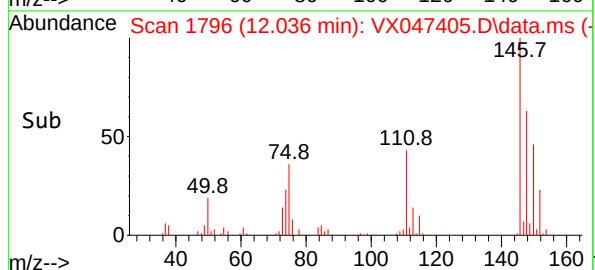
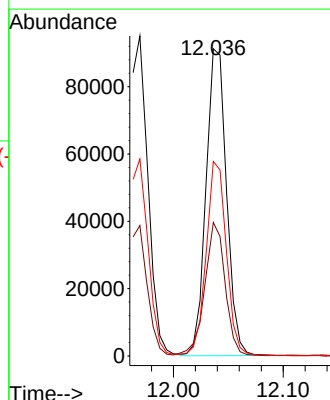
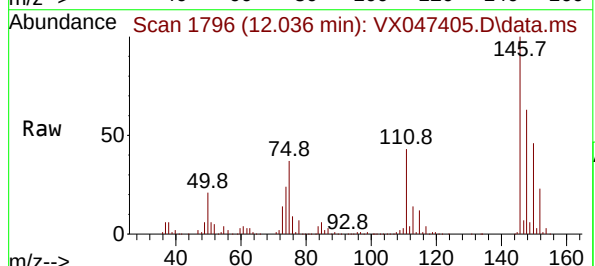
Tgt Ion:146 Resp: 118652

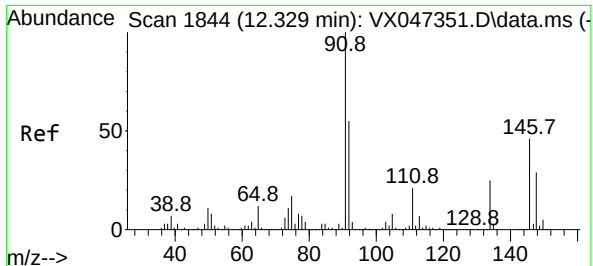
Ion Ratio Lower Upper

146 100

111 43.4 20.4 61.2

148 62.6 31.7 95.1





#89

n-Butylbenzene

Concen: 16.620 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion: 91 Resp: 197278

Ion Ratio Lower Upper

91 100

92 54.2 27.2 81.5

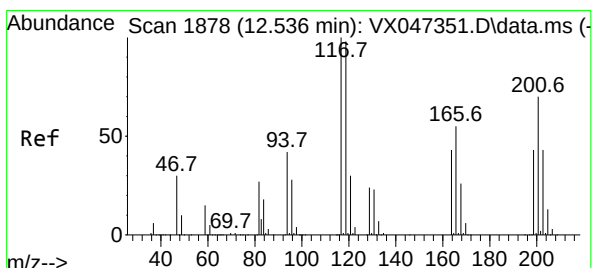
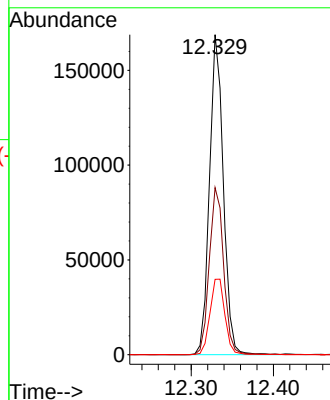
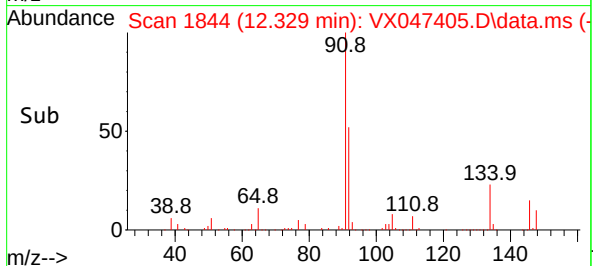
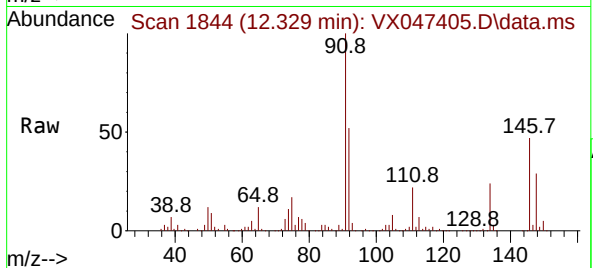
134 25.5 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#90

Hexachloroethane

Concen: 16.180 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047405.D

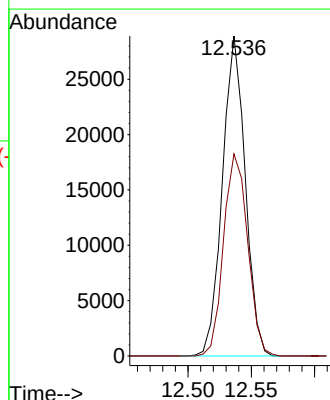
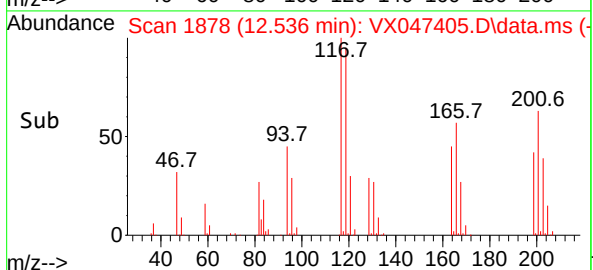
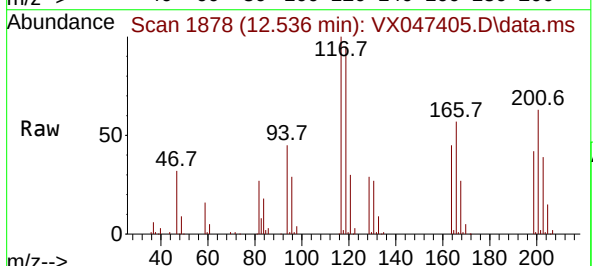
Acq: 19 Aug 2025 12:37

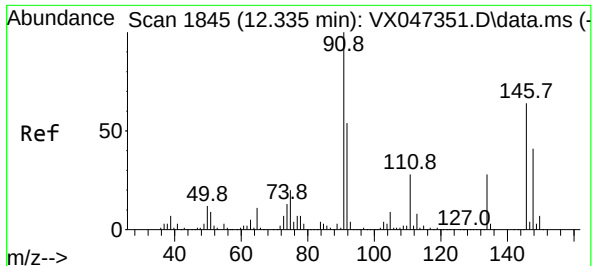
Tgt Ion:117 Resp: 36224

Ion Ratio Lower Upper

117 100

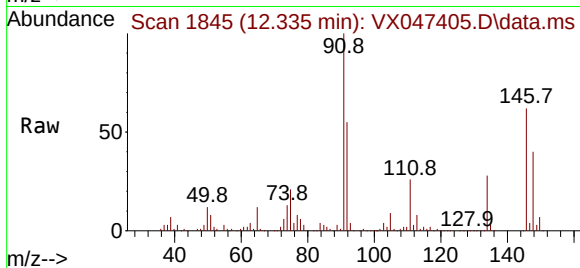
201 66.7 35.1 105.3





#91
1,2-Dichlorobenzene
Concen: 17.261 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

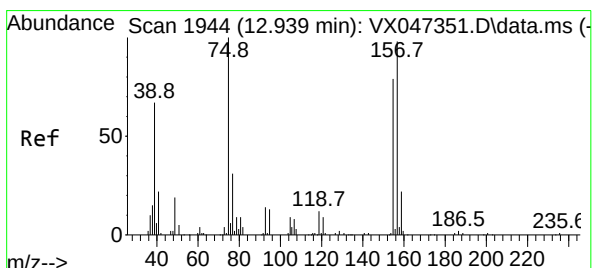
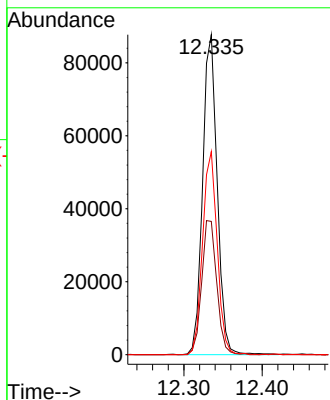
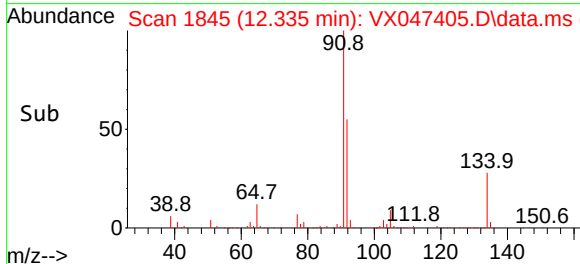
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



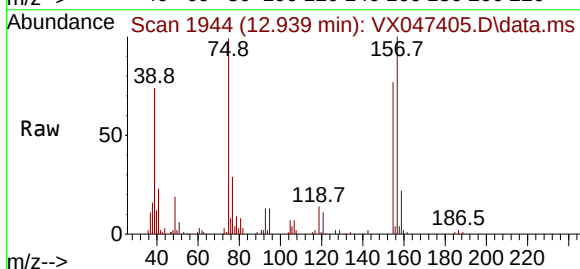
Tgt Ion:146 Resp: 11328
Ion Ratio Lower Upper
146 100
111 43.3 22.1 66.1
148 63.4 31.9 95.5

Manual Integrations
APPROVED

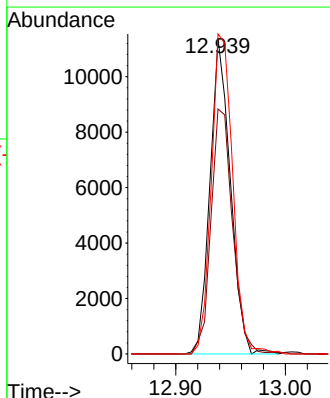
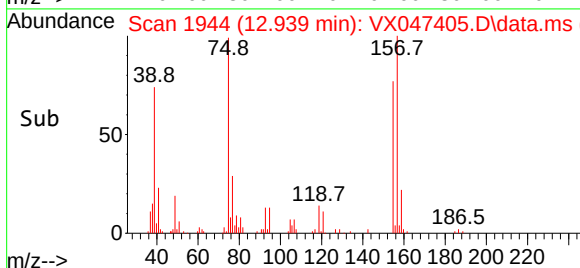
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

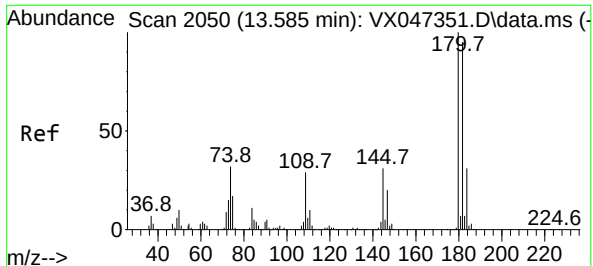


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.502 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37



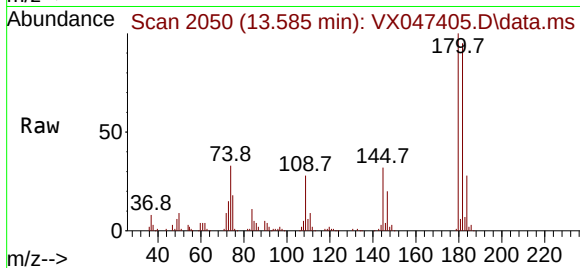
Tgt Ion: 75 Resp: 14730
Ion Ratio Lower Upper
75 100
155 82.4 41.3 123.7
157 106.3 51.5 154.5





#93
1,2,4-Trichlorobenzene
Concen: 16.457 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37

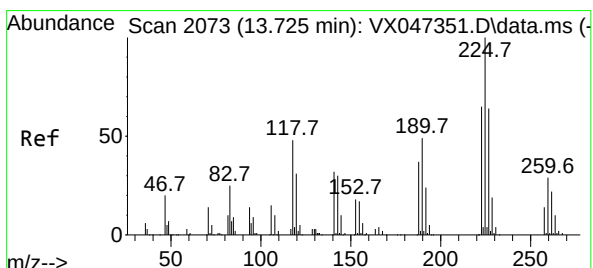
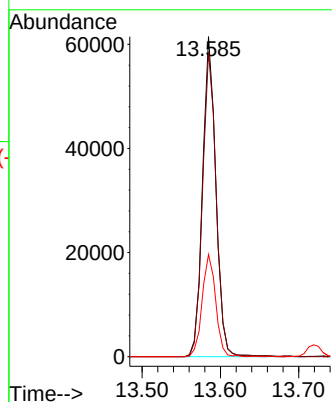
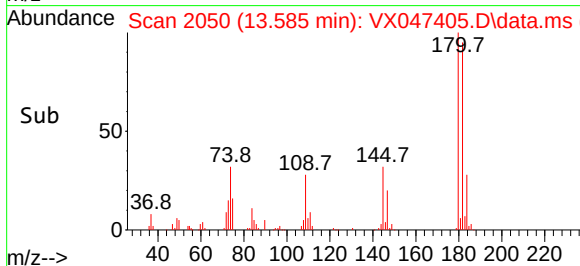
Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01



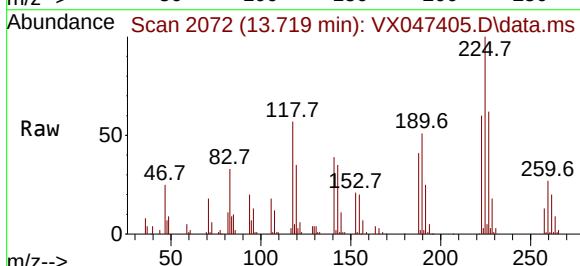
Tgt Ion:180 Resp: 7241
Ion Ratio Lower Upper
180 100
182 97.3 48.1 144.4
145 32.4 16.2 48.5

Manual Integrations
APPROVED

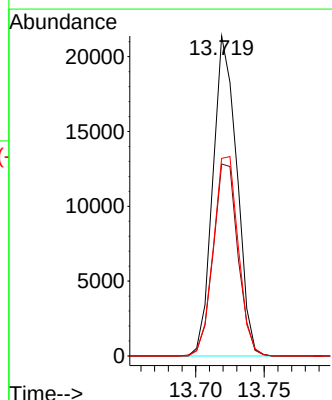
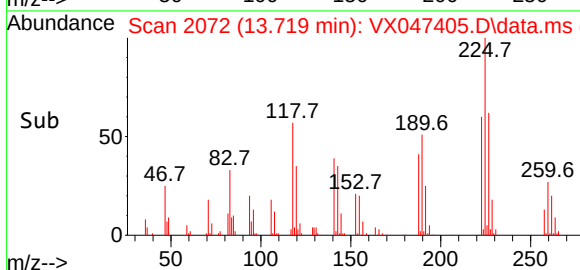
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

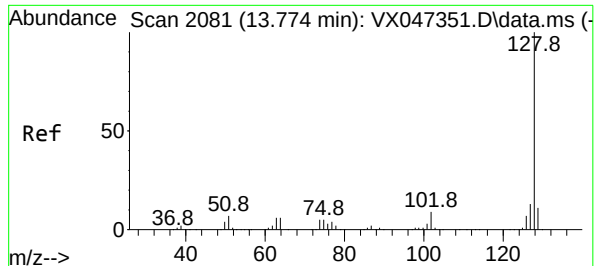


#94
Hexachlorobutadiene
Concen: 16.599 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX047405.D
Acq: 19 Aug 2025 12:37



Tgt Ion:225 Resp: 25996
Ion Ratio Lower Upper
225 100
223 62.1 32.2 96.6
227 65.0 31.6 95.0





#95

Naphthalene

Concen: 17.486 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBSD01

Tgt Ion:128 Resp: 21986

Ion Ratio Lower Upper

128 100

127 12.9 10.1 15.1

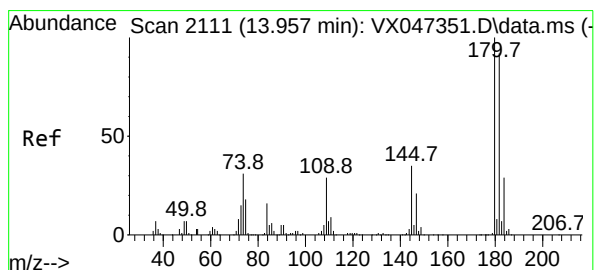
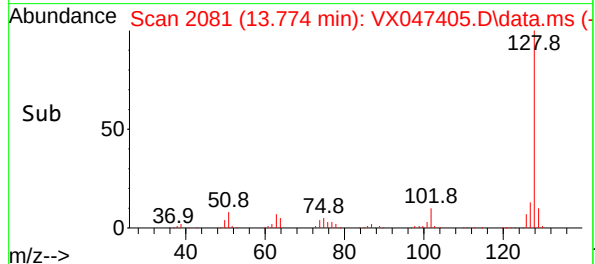
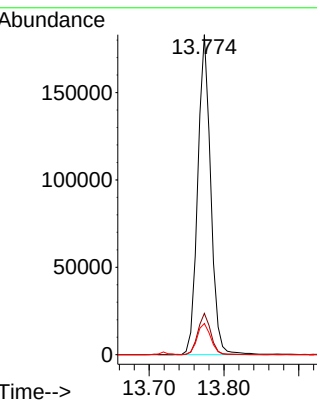
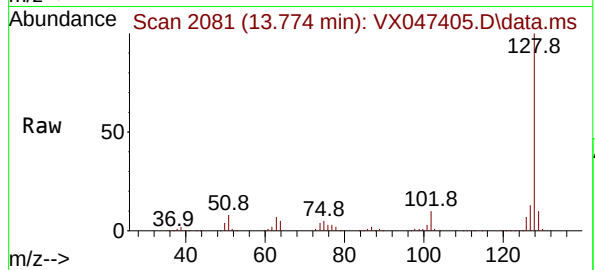
129 10.4 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/20/2025

Supervised By :Mahesh Dadoda 08/20/2025



#96

1,2,3-Trichlorobenzene

Concen: 17.227 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX047405.D

Acq: 19 Aug 2025 12:37

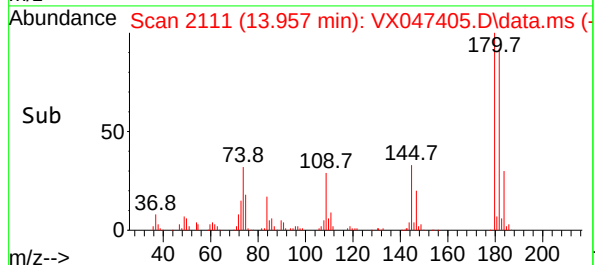
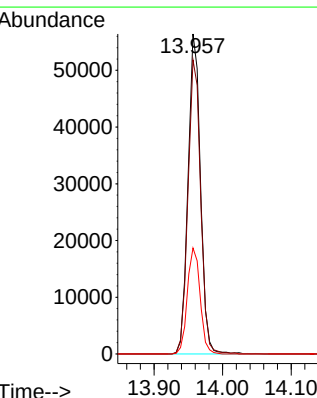
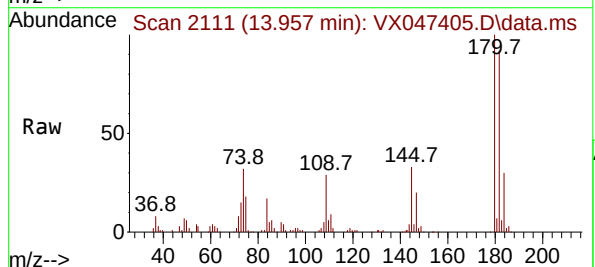
Tgt Ion:180 Resp: 71446

Ion Ratio Lower Upper

180 100

182 93.6 48.0 144.2

145 33.9 17.4 52.2



Manual Integration Report

Sequence:	VX081525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VX047349.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC005	VX047349.D	1,4-Dioxane	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC005	VX047349.D	Tetrahydrofuran	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC020	VX047350.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:37:58 AM	MMDadoda	8/19/2025 1:41:04 AM	Peak Integrated by Software
VSTDICC020	VX047350.D	1,4-Dioxane	JOHN	8/18/2025 8:37:58 AM	MMDadoda	8/19/2025 1:41:04 AM	Peak Integrated by Software
VSTDICCC050	VX047351.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:42:59 AM	MMDadoda	8/19/2025 1:41:07 AM	Peak Integrated by Software
VSTDICC100	VX047352.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:03 AM	MMDadoda	8/19/2025 1:41:08 AM	Peak Integrated by Software
VSTDICC150	VX047353.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:07 AM	MMDadoda	8/19/2025 1:41:10 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,4-Dichlorobenzene	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,4-Dioxane	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Allyl chloride	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Ethyl Acetate	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX081525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047356.D	Methacrylonitrile	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Methyl methacrylate	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Tetrahydrofuran	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICV050	VX047357.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:25 AM	MMDadoda	8/19/2025 1:41:26 AM	Peak Integrated by Software
VSTDICV050	VX047357.D	1,4-Dioxane	JOHN	8/18/2025 8:43:25 AM	MMDadoda	8/19/2025 1:41:26 AM	Peak Integrated by Software
VSTDCCC050	VX047369.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:44 AM	MMDadoda	8/19/2025 1:41:35 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX081925	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047400.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:13 AM	MMDadoda	8/20/2025 8:57:32 AM	Peak Integrated by Software
VX0819WBS01	VX047403.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:18 AM	MMDadoda	8/20/2025 8:57:35 AM	Peak Integrated by Software
VX0819WBSD0 1	VX047405.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:23 AM	MMDadoda	8/20/2025 8:57:36 AM	Peak Integrated by Software
VSTDCCC050	VX047425.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:41 AM	MMDadoda	8/20/2025 8:57:39 AM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM
Supervise By	Maresh Dadoda	Supervise On	8/19/2025 1:41:47 AM
SubDirectory	VX081525	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135148		
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158		
CCC	VP135152		
Internal Standard/PEM			
ICV/I.BLK	VP135159		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047347.D	15 Aug 2025 08:28	JC/MD	Ok
2	VSTDIC001	VX047348.D	15 Aug 2025 09:18	JC/MD	Not Ok
3	VSTDIC005	VX047349.D	15 Aug 2025 09:40	JC/MD	Ok,M
4	VSTDIC020	VX047350.D	15 Aug 2025 10:01	JC/MD	Ok,M
5	VSTDIC050	VX047351.D	15 Aug 2025 10:22	JC/MD	Ok,M
6	VSTDIC100	VX047352.D	15 Aug 2025 10:43	JC/MD	Ok,M
7	VSTDIC150	VX047353.D	15 Aug 2025 11:05	JC/MD	Ok,M
8	IBLK	VX047354.D	15 Aug 2025 11:26	JC/MD	Ok
9	VSTDIC001	VX047355.D	15 Aug 2025 12:08	JC/MD	Not Ok
10	VSTDIC001	VX047356.D	15 Aug 2025 12:30	JC/MD	Ok,M
11	VSTDICV050	VX047357.D	15 Aug 2025 13:11	JC/MD	Ok,M
12	VX0815WBL01	VX047358.D	15 Aug 2025 13:39	JC/MD	Ok
13	VX0815MBL01	VX047359.D	15 Aug 2025 14:00	JC/MD	Ok
14	VX0815WBS01	VX047360.D	15 Aug 2025 14:21	JC/MD	Ok,M
15	VX0815WBSD01	VX047361.D	15 Aug 2025 14:49	JC/MD	Ok,M
16	Q2880-01	VX047362.D	15 Aug 2025 15:10	JC/MD	Ok
17	Q2880-02	VX047363.D	15 Aug 2025 15:32	JC/MD	Ok
18	Q2880-03	VX047364.D	15 Aug 2025 15:53	JC/MD	Ok
19	Q2880-04	VX047365.D	15 Aug 2025 16:15	JC/MD	Ok
20	Q2886-01	VX047366.D	15 Aug 2025 16:36	JC/MD	Ok
21	Q2886-02	VX047367.D	15 Aug 2025 16:58	JC/MD	ReRun

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM
Supervise By	Maresh Dadoda	Supervise On	8/19/2025 1:41:47 AM
SubDirectory	VX081525	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135148		
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158		
CCC	VP135152		
Internal Standard/PEM			
ICV/I.BLK	VP135159		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2837-01	VX047368.D	15 Aug 2025 17:19	JC/MD	Ok,M
23	VSTDCCC050	VX047369.D	15 Aug 2025 17:41	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM
Supervise By	Maresh Dadoda	Supervise On	8/20/2025 8:58:28 AM
SubDirectory	VX081925	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135170		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135171,VP135172		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047399.D	19 Aug 2025 08:38	JC/MD	Ok
2	VSTDCCC050	VX047400.D	19 Aug 2025 09:37	JC/MD	Ok,M
3	VX0819MBL01	VX047401.D	19 Aug 2025 10:05	JC/MD	Ok
4	VX0819WBL01	VX047402.D	19 Aug 2025 10:55	JC/MD	Ok
5	VX0819WBS01	VX047403.D	19 Aug 2025 11:55	JC/MD	Ok,M
6	Q2815-11	VX047404.D	19 Aug 2025 12:16	JC/MD	Ok
7	VX0819WBSD01	VX047405.D	19 Aug 2025 12:37	JC/MD	Ok,M
8	Q2815-12	VX047406.D	19 Aug 2025 12:59	JC/MD	Ok
9	Q2815-16RE	VX047407.D	19 Aug 2025 13:20	JC/MD	Confirms
10	Q2815-24	VX047408.D	19 Aug 2025 13:41	JC/MD	Ok
11	Q2815-26	VX047409.D	19 Aug 2025 14:07	JC/MD	ReRun
12	Q2841-01	VX047410.D	19 Aug 2025 14:29	JC/MD	Dilution
13	Q2841-01DL	VX047411.D	19 Aug 2025 14:50	JC/MD	Ok
14	Q2815-20	VX047412.D	19 Aug 2025 15:11	JC/MD	Ok
15	Q2815-21	VX047413.D	19 Aug 2025 15:32	JC/MD	ReRun
16	Q2815-22	VX047414.D	19 Aug 2025 15:53	JC/MD	ReRun
17	Q2815-23	VX047415.D	19 Aug 2025 16:14	JC/MD	Ok
18	Q2869-07	VX047416.D	19 Aug 2025 16:36	JC/MD	Ok
19	Q2869-10	VX047417.D	19 Aug 2025 16:57	JC/MD	Ok
20	Q2869-11	VX047418.D	19 Aug 2025 17:18	JC/MD	Ok
21	Q2815-18	VX047419.D	19 Aug 2025 17:39	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM
Supervise By	Maresh Dadoda	Supervise On	8/20/2025 8:58:28 AM
SubDirectory	VX081925	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135170		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135171,VP135172		

22	Q2815-19	VX047420.D	19 Aug 2025 18:00	JC/MD	Ok
23	Q2869-01	VX047421.D	19 Aug 2025 18:22	JC/MD	Ok
24	VX0819MBS01	VX047422.D	19 Aug 2025 18:43	JC/MD	Ok,M
25	Q2844-09DL	VX047423.D	19 Aug 2025 19:04	JC/MD	Ok
26	Q2884-03DL	VX047424.D	19 Aug 2025 19:25	JC/MD	Ok
27	VSTDCCC050	VX047425.D	19 Aug 2025 19:47	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM
Supervise By	Maresh Dadoda	Supervise On	8/19/2025 1:41:47 AM
SubDirectory	VX081525	HP Acquire Method	HP Processing Method 82X081525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135148
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158
CCC	VP135152
Internal Standard/PEM	
ICV/I.BLK	VP135159
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047347.D	15 Aug 2025 08:28		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX047348.D	15 Aug 2025 09:18	Not used	JC/MD	Not Ok
3	VSTDIC005	VSTDIC005	VX047349.D	15 Aug 2025 09:40	LR-58,81	JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX047350.D	15 Aug 2025 10:01		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX047351.D	15 Aug 2025 10:22		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX047352.D	15 Aug 2025 10:43		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX047353.D	15 Aug 2025 11:05		JC/MD	Ok,M
8	IBLK	IBLK	VX047354.D	15 Aug 2025 11:26		JC/MD	Ok
9	VSTDIC001	VSTDIC001	VX047355.D	15 Aug 2025 12:08	Not used	JC/MD	Not Ok
10	VSTDIC001	VSTDIC001	VX047356.D	15 Aug 2025 12:30		JC/MD	Ok,M
11	VSTDICV050	ICVVX081525	VX047357.D	15 Aug 2025 13:11		JC/MD	Ok,M
12	VX0815WBL01	VX0815WBL01	VX047358.D	15 Aug 2025 13:39		JC/MD	Ok
13	VX0815MBL01	VX0815MBL01	VX047359.D	15 Aug 2025 14:00		JC/MD	Ok
14	VX0815WBS01	VX0815WBS01	VX047360.D	15 Aug 2025 14:21		JC/MD	Ok,M
15	VX0815WBSD01	VX0815WBSD01	VX047361.D	15 Aug 2025 14:49		JC/MD	Ok,M
16	Q2880-01	STORAGE-BLANK-SO	VX047362.D	15 Aug 2025 15:10	vial A pH<2	JC/MD	Ok
17	Q2880-02	STORAGE-BLANK-WA	VX047363.D	15 Aug 2025 15:32	vial A pH<2	JC/MD	Ok
18	Q2880-03	STORAGE-BLANK-WA	VX047364.D	15 Aug 2025 15:53	vial A pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM
Supervise By	Maresh Dadoda	Supervise On	8/19/2025 1:41:47 AM
SubDirectory	VX081525	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135148		
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158		
CCC	VP135152		
Internal Standard/PEM			
ICV/I.BLK	VP135159		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2880-04	STORAGE-BLANK-SAI	VX047365.D	15 Aug 2025 16:15	vial A pH<2	JC/MD	Ok
20	Q2886-01	BP-TT182D-TB-202508	VX047366.D	15 Aug 2025 16:36	vial A pH<2	JC/MD	Ok
21	Q2886-02	BP-TT182D-GW-202508	VX047367.D	15 Aug 2025 16:58	vial A pH<2 Surrogate Fail	JC/MD	ReRun
22	Q2837-01	TW-WTS-13	VX047368.D	15 Aug 2025 17:19	vial B pH<2	JC/MD	Ok,M
23	VSTDCCC050	VSTDCCC050EC	VX047369.D	15 Aug 2025 17:41		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM
Supervise By	Mahesh Dadoda	Supervise On	8/20/2025 8:58:28 AM
SubDirectory	VX081925	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135170		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135171,VP135172		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047399.D	19 Aug 2025 08:38		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047400.D	19 Aug 2025 09:37	pH#Lot#V12668	JC/MD	Ok,M
3	VX0819MBL01	VX0819MBL01	VX047401.D	19 Aug 2025 10:05		JC/MD	Ok
4	VX0819WBL01	VX0819WBL01	VX047402.D	19 Aug 2025 10:55		JC/MD	Ok
5	VX0819WBS01	VX0819WBS01	VX047403.D	19 Aug 2025 11:55		JC/MD	Ok,M
6	Q2815-11	TW-22M-W	VX047404.D	19 Aug 2025 12:16	vial B pH<2	JC/MD	Ok
7	VX0819WBSD01	VX0819WBSD01	VX047405.D	19 Aug 2025 12:37		JC/MD	Ok,M
8	Q2815-12	TW-22M-S	VX047406.D	19 Aug 2025 12:59	vial B pH<2	JC/MD	Ok
9	Q2815-16RE	TW-17M-SRE	VX047407.D	19 Aug 2025 13:20	vial B pH<2 Surrogate Fail	JC/MD	Confirms
10	Q2815-24	TB	VX047408.D	19 Aug 2025 13:41	vial A pH<2 TB	JC/MD	Ok
11	Q2815-26	FB	VX047409.D	19 Aug 2025 14:07	vial A pH<2 FB;Surrogate Fail	JC/MD	ReRun
12	Q2841-01	MW-06-6.5-081225	VX047410.D	19 Aug 2025 14:29	vial A pH<2	JC/MD	Dilution
13	Q2841-01DL	MW-06-6.5-081225DL	VX047411.D	19 Aug 2025 14:50	vial A pH<2	JC/MD	Ok
14	Q2815-20	TW-11M-W	VX047412.D	19 Aug 2025 15:11	vial A pH<2	JC/MD	Ok
15	Q2815-21	TW-11M-E	VX047413.D	19 Aug 2025 15:32	vial A pH<2 Surrogate Fail	JC/MD	ReRun
16	Q2815-22	TW-11M-S	VX047414.D	19 Aug 2025 15:53	vial A pH<2 Surrogate Fail	JC/MD	ReRun
17	Q2815-23	TW-11M-N	VX047415.D	19 Aug 2025 16:14	vial A pH<2	JC/MD	Ok
18	Q2869-07	EB01-081325	VX047416.D	19 Aug 2025 16:36	vial A pH<2 EB	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM
Supervise By	Maresh Dadoda	Supervise On	8/20/2025 8:58:28 AM
SubDirectory	VX081925	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135170		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135171,VP135172		

19	Q2869-10	EB02-081325	VX047417.D	19 Aug 2025 16:57	vial A pH<2 EB	JC/MD	Ok
20	Q2869-11	TB01-081325	VX047418.D	19 Aug 2025 17:18	vial A pH<2 TB	JC/MD	Ok
21	Q2815-18	TW-84SB-W	VX047419.D	19 Aug 2025 17:39	vial A pH<2	JC/MD	Ok
22	Q2815-19	DUP	VX047420.D	19 Aug 2025 18:00	vial A pH<2	JC/MD	Ok
23	Q2869-01	MW-19B-71.5-081325	VX047421.D	19 Aug 2025 18:22	vial A pH<2	JC/MD	Ok
24	VX0819MBS01	VX0819MBS01	VX047422.D	19 Aug 2025 18:43		JC/MD	Ok,M
25	Q2844-09DL	MOO-25-0226DL	VX047423.D	19 Aug 2025 19:04		JC/MD	Ok
26	Q2884-03DL	302DL	VX047424.D	19 Aug 2025 19:25		JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX047425.D	19 Aug 2025 19:47		JC/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2841

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VX081925,

Standard ID :

VP134142,VP134149,VP134933,VP134956,VP134957,VP135059,VP135129,VP135170,VP135171,VP135172,

Chemical ID :

V13391,V14290,V14444,V14446,V14507,V14508,V14529,V14530,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14702,V14705,V14716,V14745,V14751,V14806,V14807,V14843,V14906,V14929,V15057,V15058,V15059,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>
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 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	Maresh Dadoda
								06/10/2025

FROM 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>
617	8260 Surrogate, 400PPM	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/19/2025

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = 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>
247	8260 Internal Standard, 250PPM	VP134956	08/01/2025	11/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/06/2025

FROM 0.25000ml of V14290 + 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>
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
08/06/2025								

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135059	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
08/19/2025								

FROM 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = 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>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135129	08/14/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/19/2025

FROM 1.00000ml of V15059 + 1.50000ml of V15057 + 1.50000ml of V15058 + 21.00000ml of V14625 = 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	VP135170	08/19/2025	08/20/2025	John Carlone	None	None	Maresh Dadoda
								08/20/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = 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	VP135171	08/19/2025	08/20/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = 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	VP135172	08/19/2025	08/20/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14444

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	08/08/2025 / SAM	08/15/2024 / SAM	V14446

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	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14507

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	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14508

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14529

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	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14530

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	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14702

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14705

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14716

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14745

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14751

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	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14806

LOTS

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	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14807

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	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

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)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15057

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15058

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)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15059

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
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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



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 5E-05 Balance Uncertainty
100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

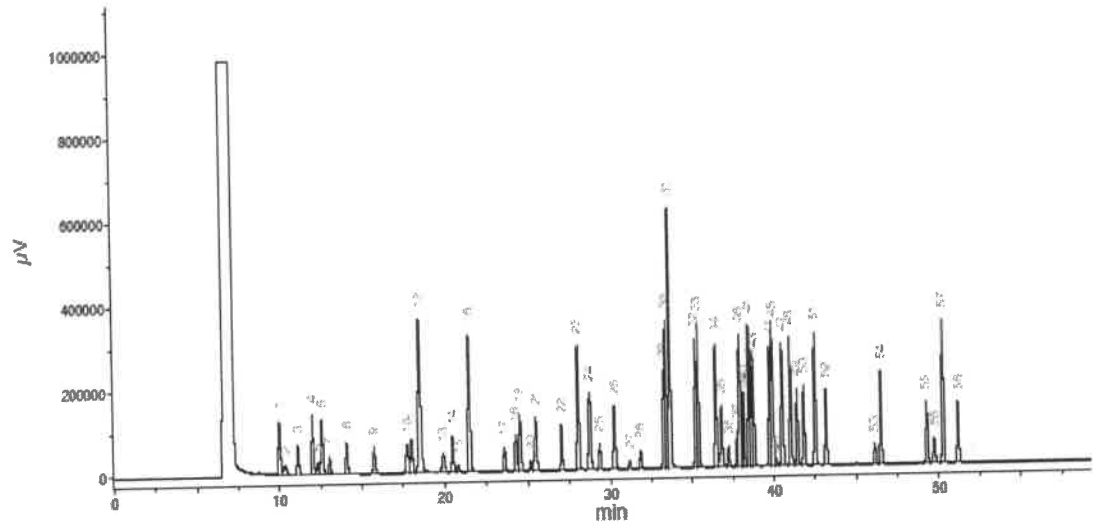
Compound	(K049)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc. (µg/mL)	Uncertainty	(+/-) (µg/mL)	CASE	OSHA PEL (TWA)	LD50
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	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 2460mg/kg	
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H)(skin)	or-rat 120mg/kg	
11. Methyl acrylate	(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 787mg/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)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg	
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	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	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	158-59-2	N/A	or-rat 848mg/kg	
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	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	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg	
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	or-rat 2629mg/kg	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg	
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-83-4	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	or-rat 3600mg/kg	
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A	
37. cis-1,3-Dichloropropane	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10081-01-5	N/A	N/A	
38. trans-1,3-Dichloropropane	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10081-02-6	N/A	N/A	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg	
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg	
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	or-rat 800mg/kg	
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	or-rat 936mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 240mg/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	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	N/A	or-rat 2699mg/kg	
47. n-Butyl 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	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-mus 1390mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg	
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	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	96-06-6	N/A	N/A	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-43-4	N/A	or-rat 2100mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg	
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-			



Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	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	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.13
21	Dibromomethane/2,2-Dichloropropane	25.46
22	cis-1,2-Dichloroethane	27.07
23	Toluene	28.03
24	Ethyl methacrylate/trans-1,2-Dichloroethane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,2-Dichloropropane	30.94
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	32.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.53
33	Styrene	35.70
34	Isopropylbenzene/Bromobenzene	35.78
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225
H370
P271
P302,332Highly Flammable Liquid and Vapor
Cause damage to organs
Use in ventilated area
If on skin, wash with soap and waterH301, 311, 331
H351
P280
P305,351,338Toxic 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))
Methanol METHYL ALCOHOL

CAS#: 67-56-1

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice

If inhaled

In case of skin contact

In case of eye contact

If swallowed

Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Protective equipment for fire

Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Clean up

Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Storage Conditions

Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm

Skin notation TWA 200 ppm

Potential for skin absorption, ingestion and inhalation.

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.

Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KME)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(0075)	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 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	HG02JXK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	158-59-2	N/A	or-rat 848mg/kg
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethane	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
24. Carbon tetrachloride	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
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	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	108-83-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloroethane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 240mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-mus 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	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	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1060mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-rat

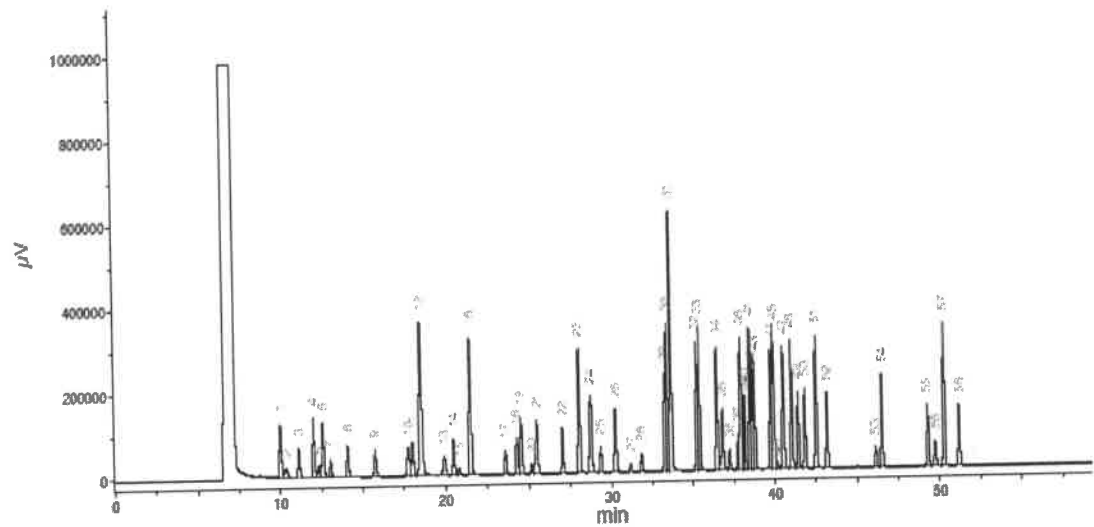


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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	Acetone	12.00
5	Isodimethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methyl methacrylate/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	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.94
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	33.84
28	1,2-Dibromomethane	33.86
29	Chlorobenzene	33.88
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	35.33
31	m-Xylene/p-Xylene	35.39
32	o-Xylene	35.48
33	Styrene	36.80
34	Isopropylbenzene/Bromobenzene	37.22
35	cis-1,4-Dichloro-3-butene	37.27
36	1,1,2-Trichloropropane	37.92
37	n-Propylbenzene	38.05
38	trans-1,4-Dichloro-3-butene	38.14
39	Bromobenzene	38.50
40	1,3,5-Trimethylbenzene	38.63
41	2-Chlorobenzene	38.77
42	4-Chlorobenzene	39.76
43	tert-Butylbenzene	39.91
44	1,2,4-Trimethylbenzene	40.17
45	Perchloroethane	40.52
46	sec-Butylbenzene	41.02
47	p-Isopropylbenzene	41.42
48	1,3-Trichlorobenzene	41.83
49	1,4-Dichlorobenzene	42.52
50	n-Butylbenzene	42.18
51	1,2-Dichlorobenzene	46.12
52	1,2-Dibromo-3-chloropropane	46.40
53	Nitrobenzene	49.26
54	1,2,4-Trifluorobenzene	49.72
55	Hexachlorocyclopentadiene	50.56
56	Naphthalene	51.16
57	1,2,3-Trichlorobenzene	
58		

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
P302,332Highly Flammable Liquid and Vapor
Cause damage to organs
Use in ventilated area
If on skin, wash with soap and waterH301, 311, 331
H351
P280
P305,351,338Toxic 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))
Methanol METHYL ALCOHOL

CAS#: 67-56-1

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice

If inhaled

In case of skin contact

In case of eye contact

If swallowed

Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

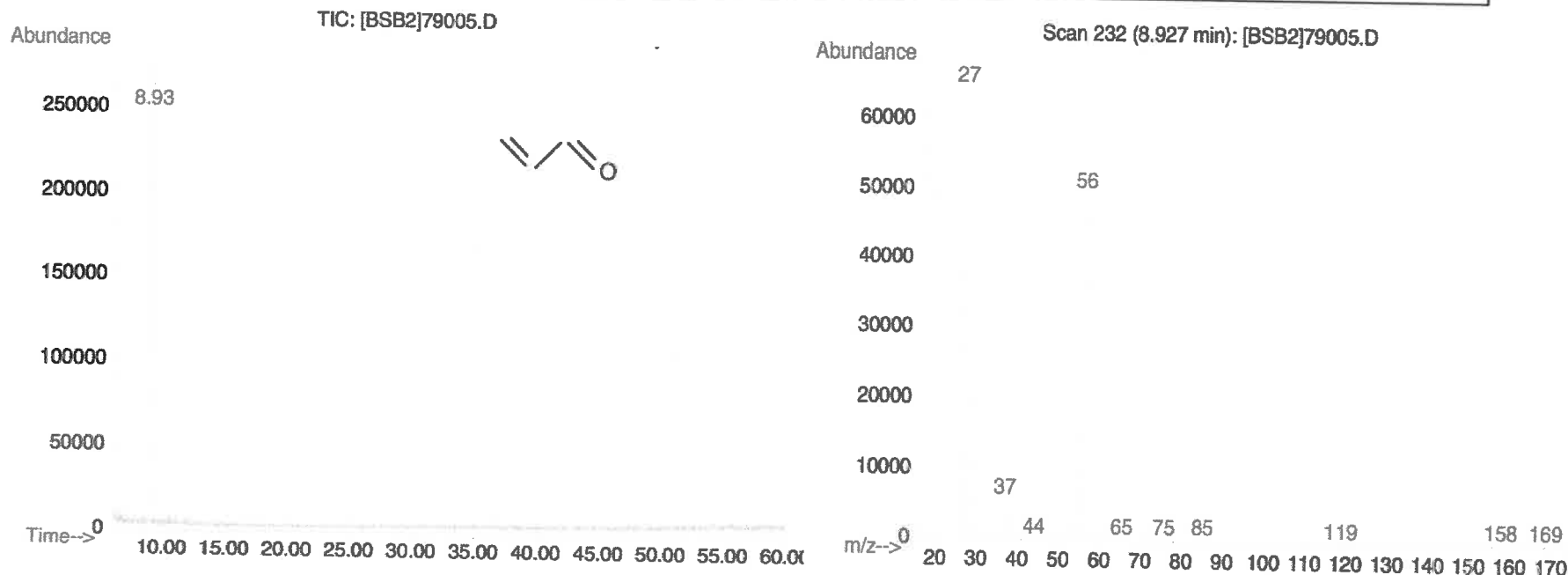
Part Number: 91980
Lot Number: 091424
Description: AcroleinSolvent(s): Water
Lot# 072324Q

Formulated By:	Justin Dippold
DATE 091424	
Reviewed By:	Pedro L. Rentas
DATE 091424	

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.





Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water
Lot#
072324Q

Formulated By:	Justin Dippold
DATE: 091424	
Reviewed By:	Pedro L. Rentas
DATE: 091424	

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.DAbundance
Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

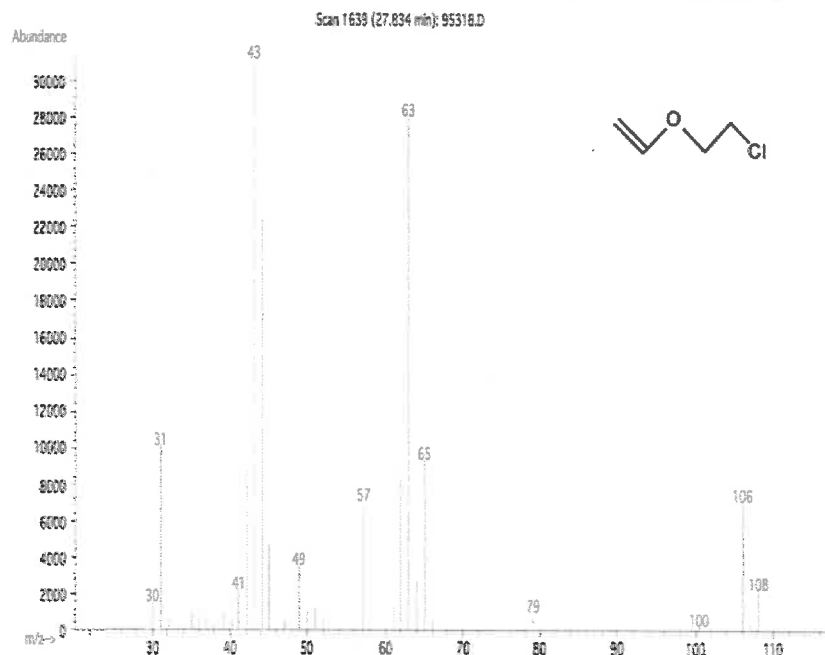
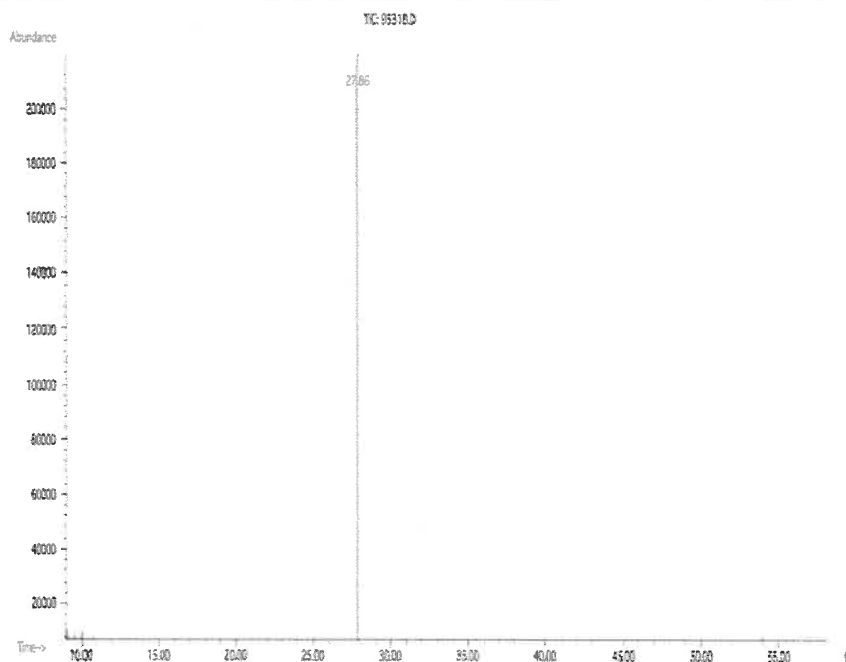
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp. = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

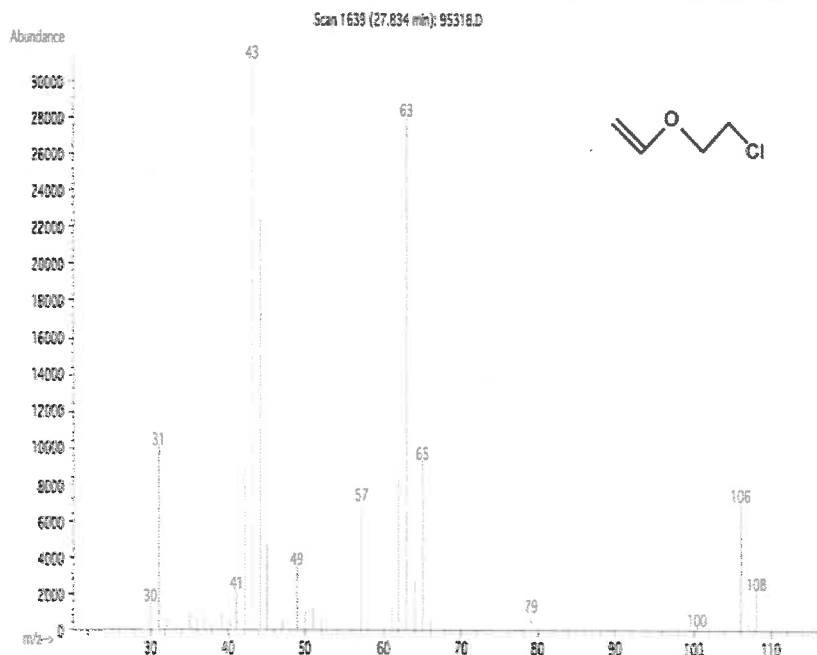
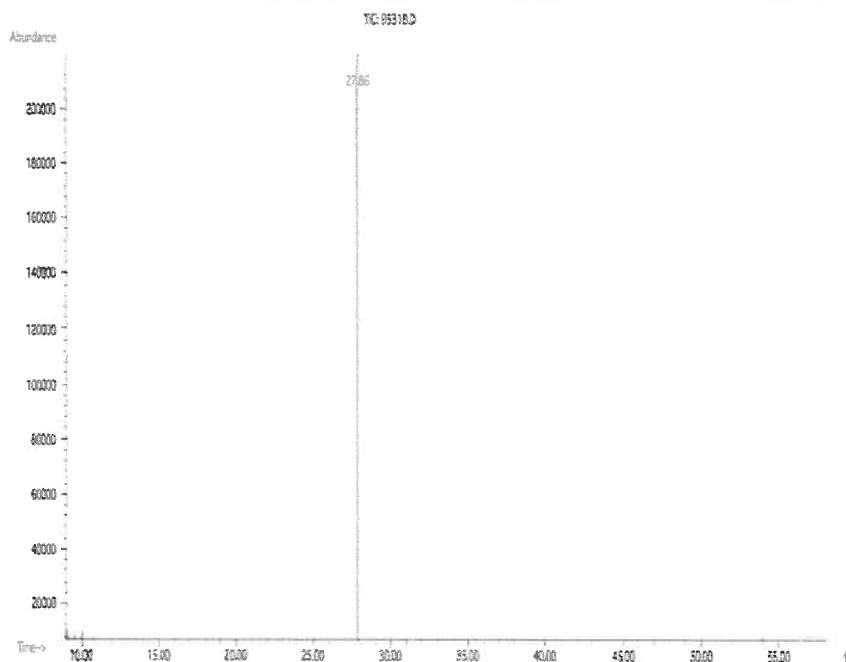
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

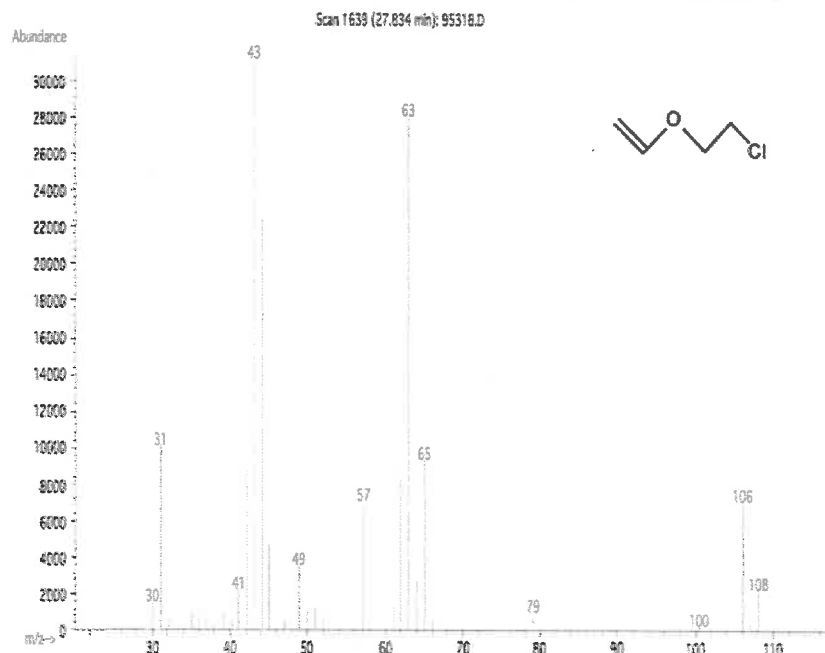
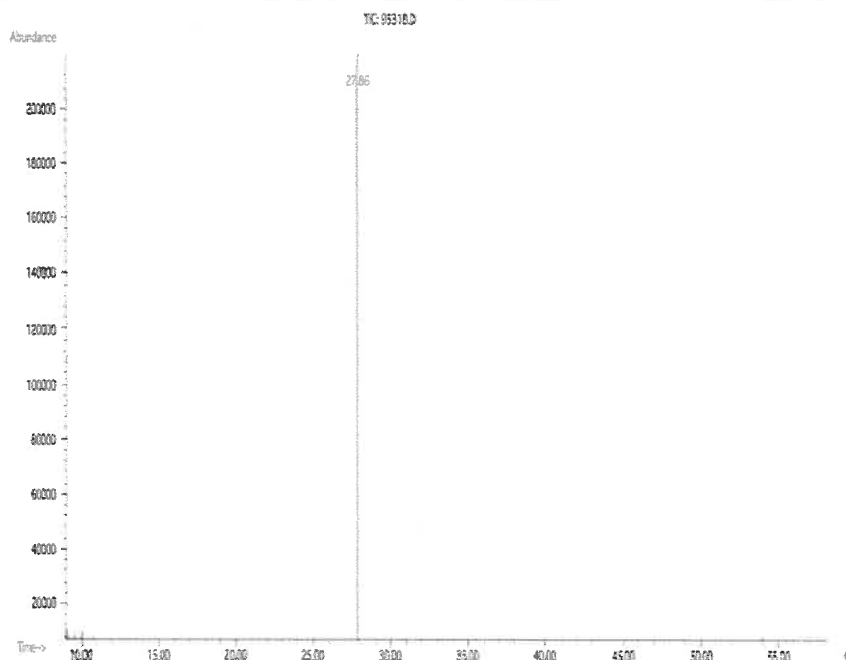
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp. = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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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
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
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LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
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Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

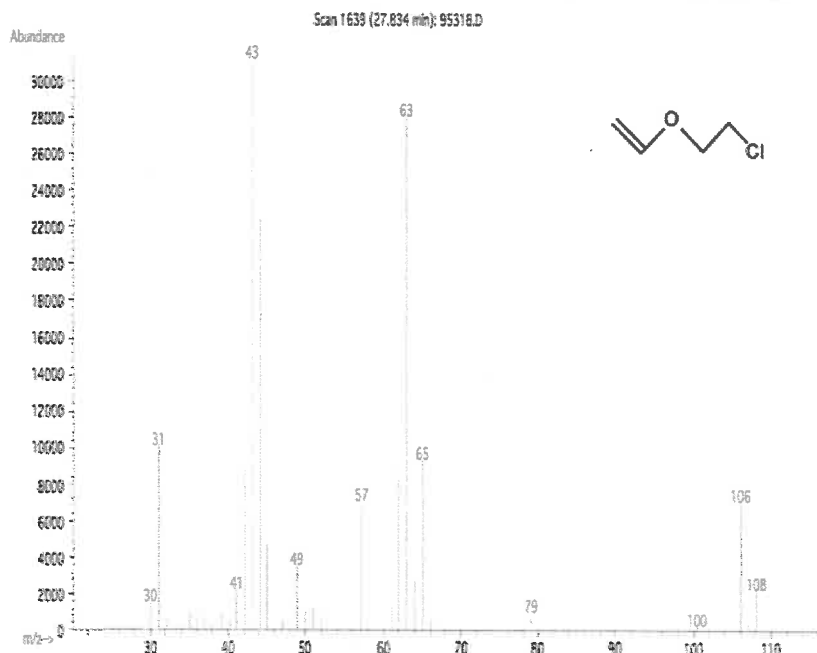
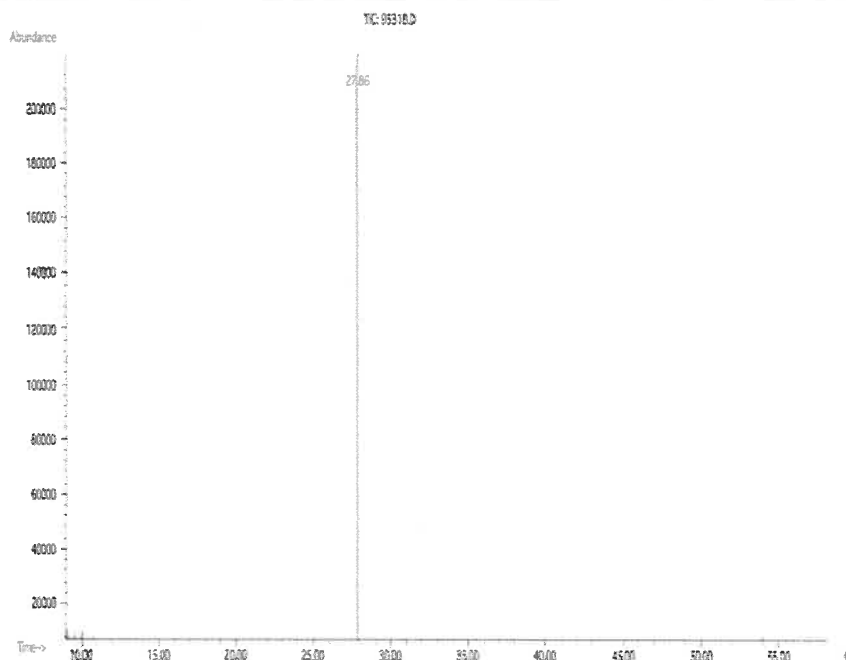
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Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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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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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.

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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.
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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.		

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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

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:

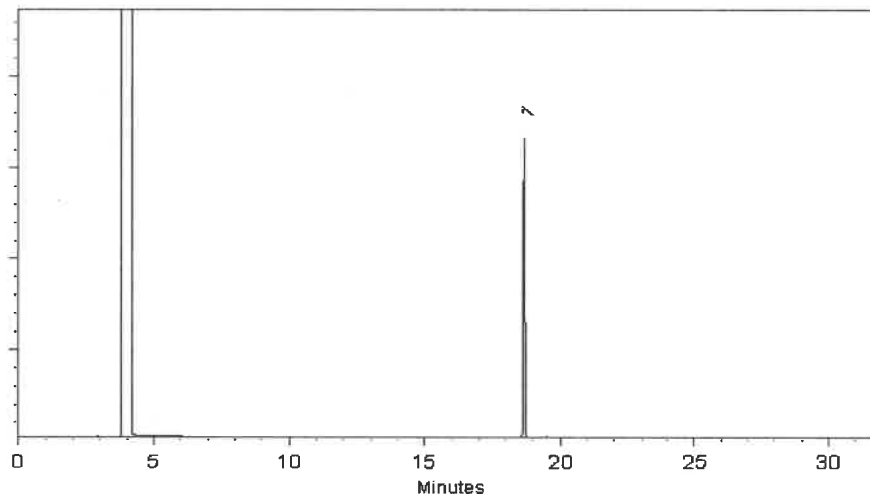
FID

Split Vent:

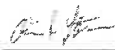
40 ml/min

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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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

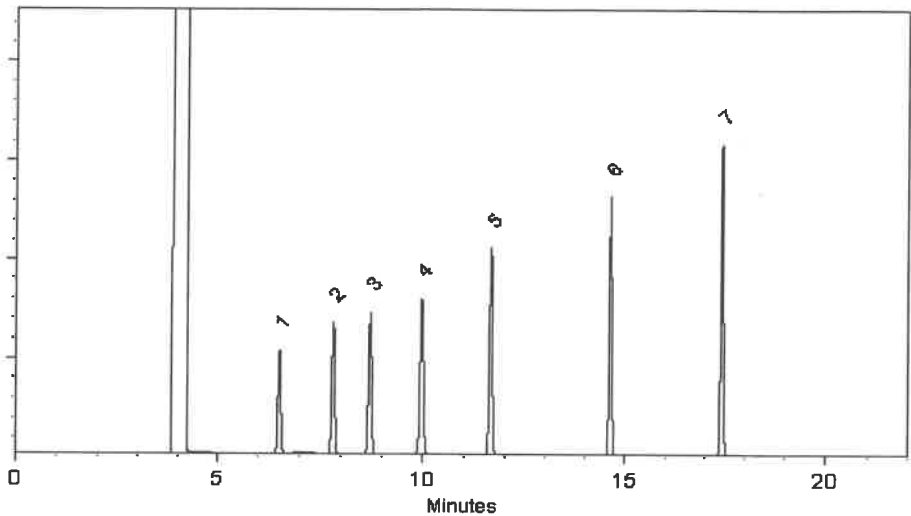
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

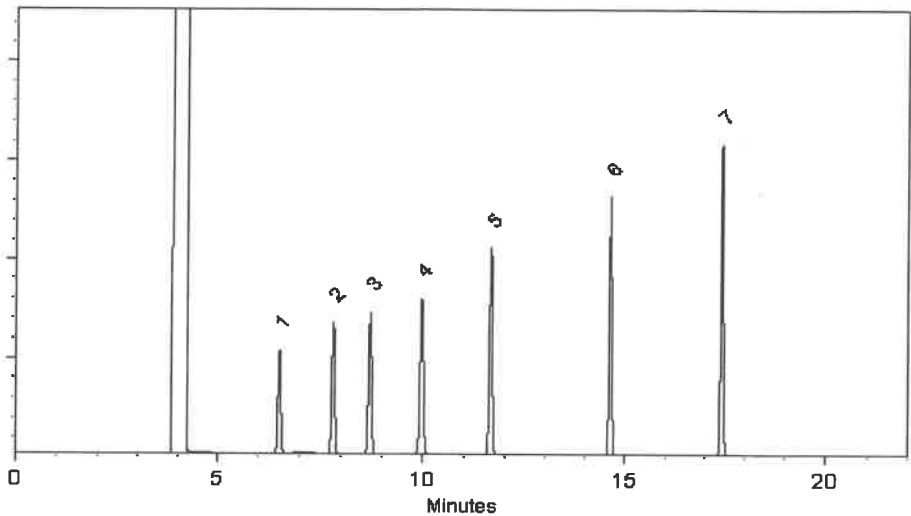
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

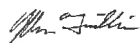
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek Review of 11-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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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:

- 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:

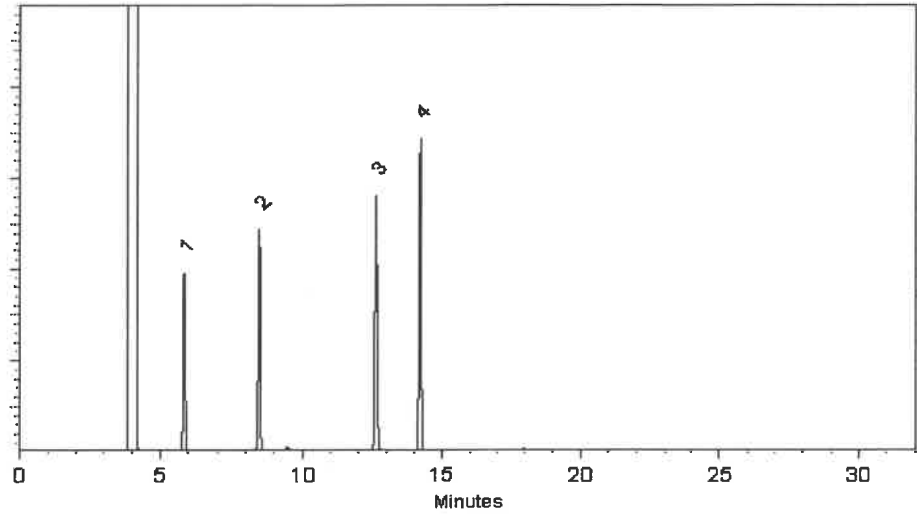
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

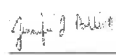


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

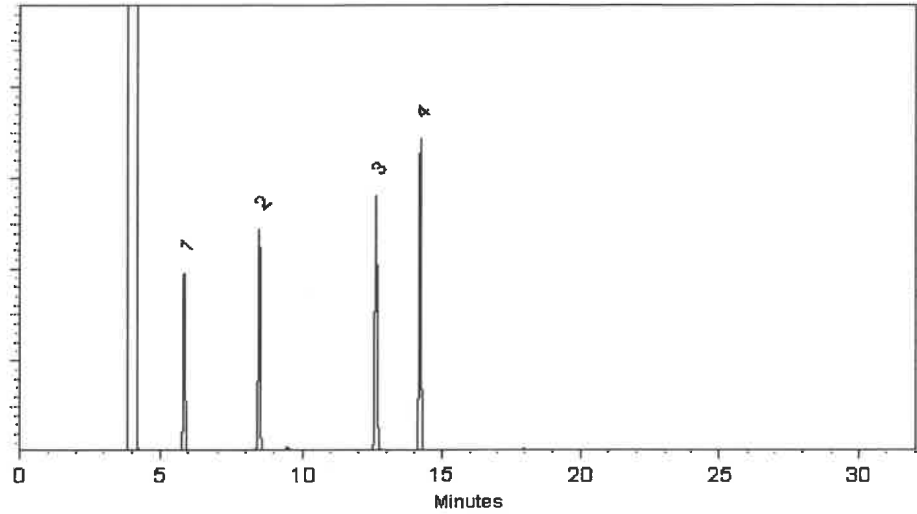
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

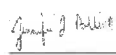


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
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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:

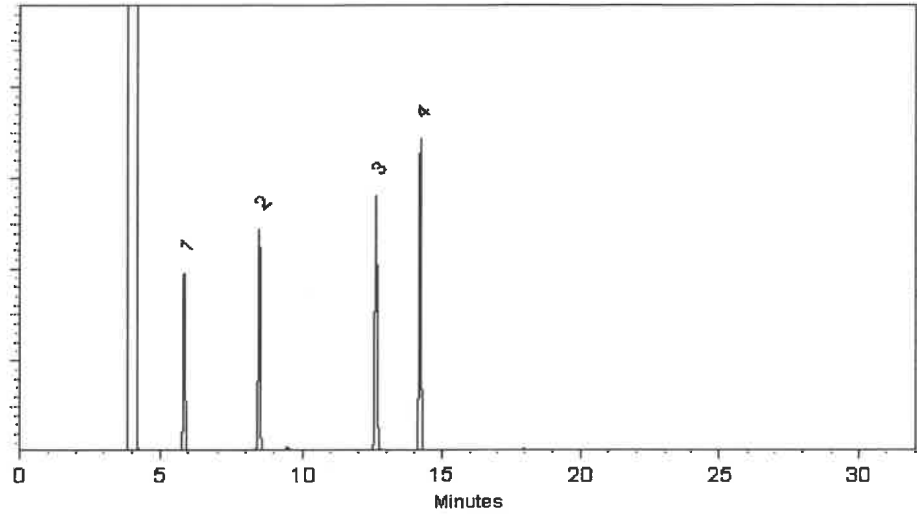
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

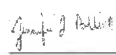


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

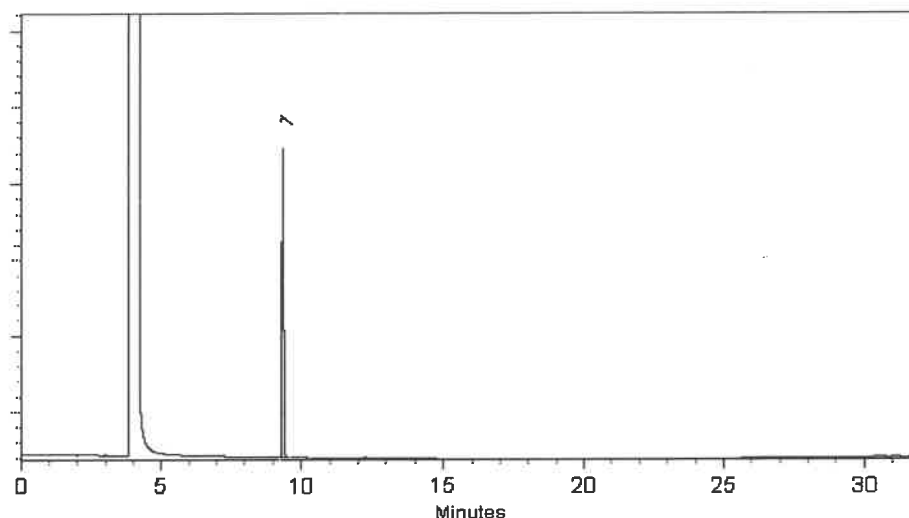
FID

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:

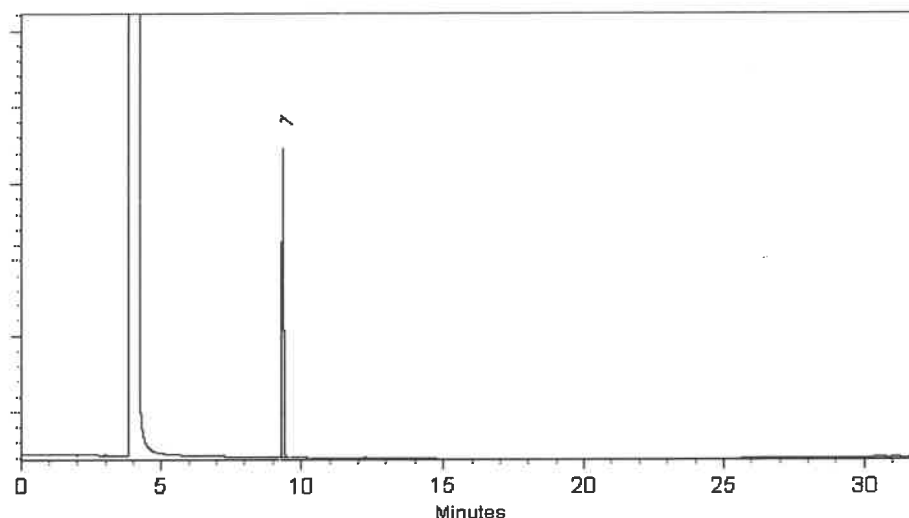
FID

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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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:

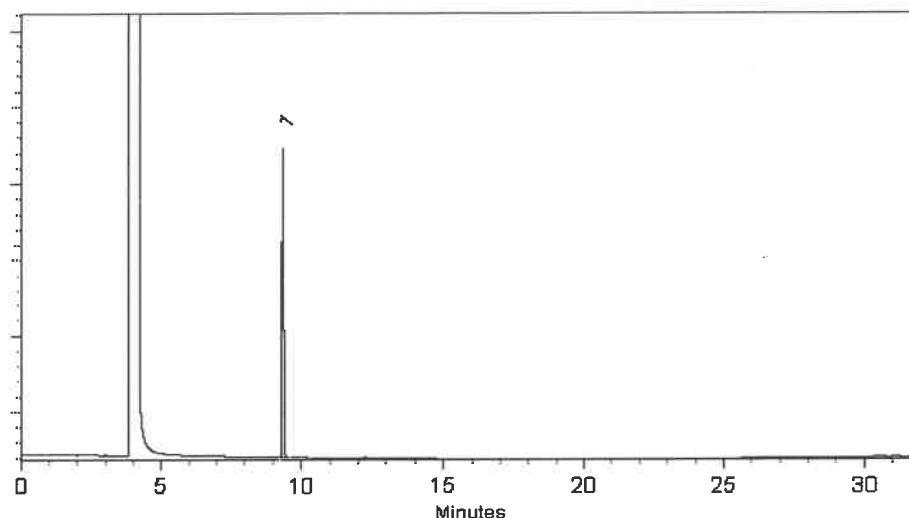
FID

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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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:

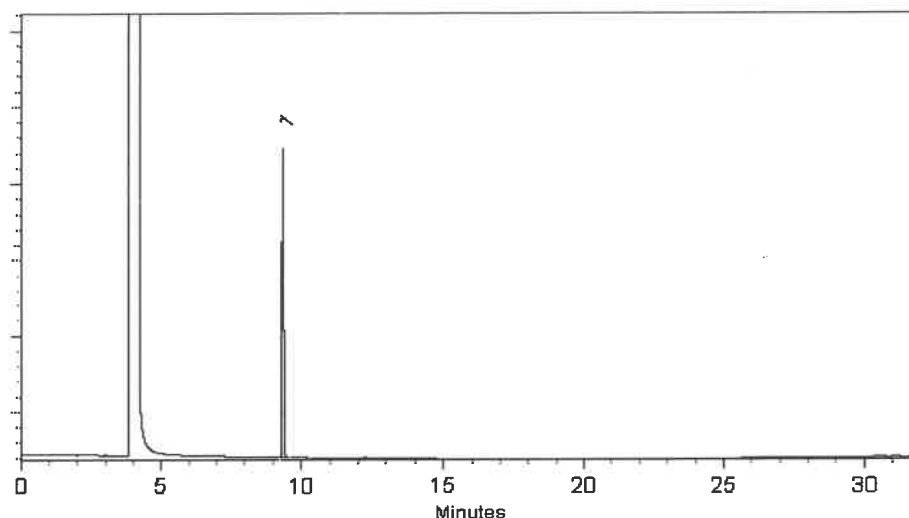
FID

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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Rec 12/17/24
30 ml
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

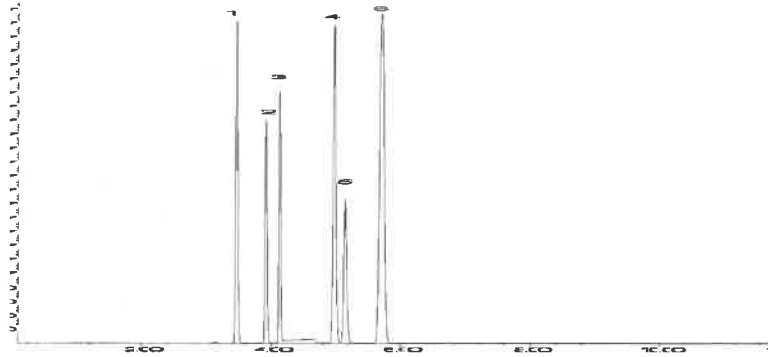
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 ml
Certificate of Analysis
chromatographic plus
V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

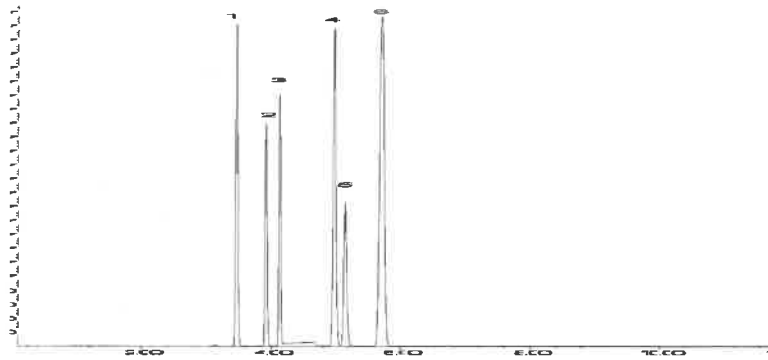
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

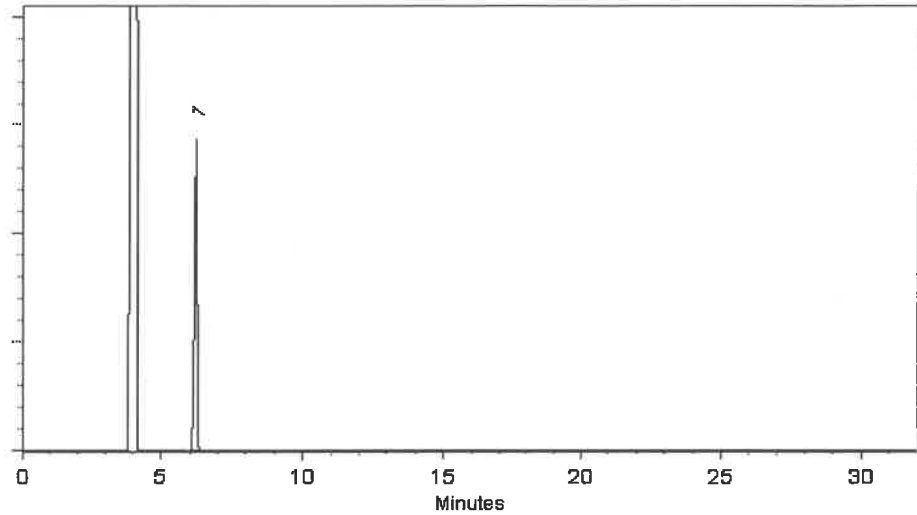
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

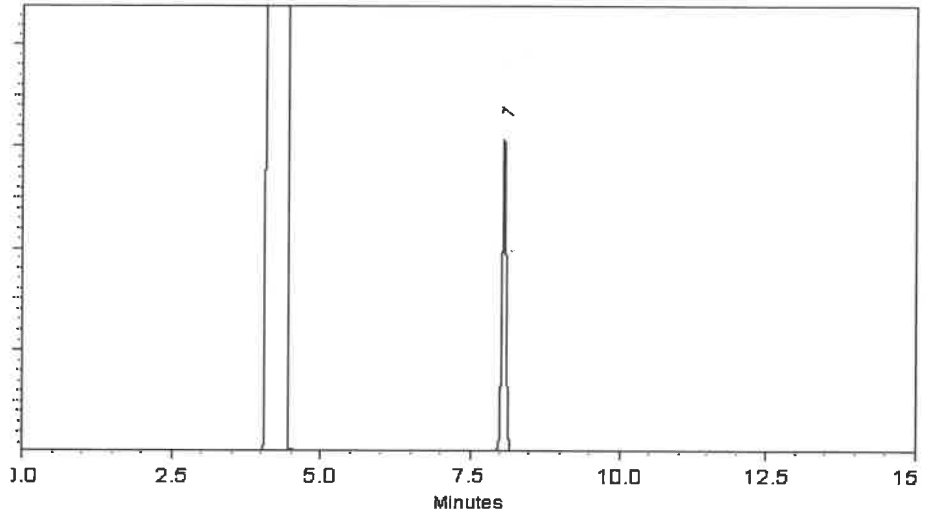
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

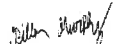


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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 Pabon at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

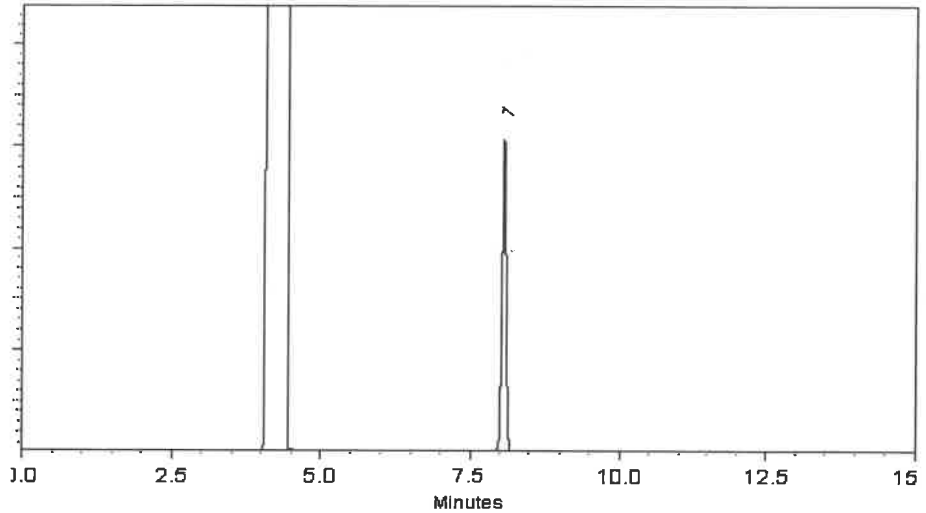
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

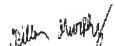


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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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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10 vial
Dec 03/31/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

V14904 to V14913



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.:** A0223904
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 : March 31, 2028 **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-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federlino - Operations Tech I

Date Mixed: 27-Mar-2025

Balance: B251644995



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



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

Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s):
Water
Lot# 041725Q

<i>Eli Allaga</i>		081325
Formulated By:	Eli Allaga	DATE
<i>Pedro Rentas</i>		081325
Reviewed By:	Pedro L. Rentas	DATE

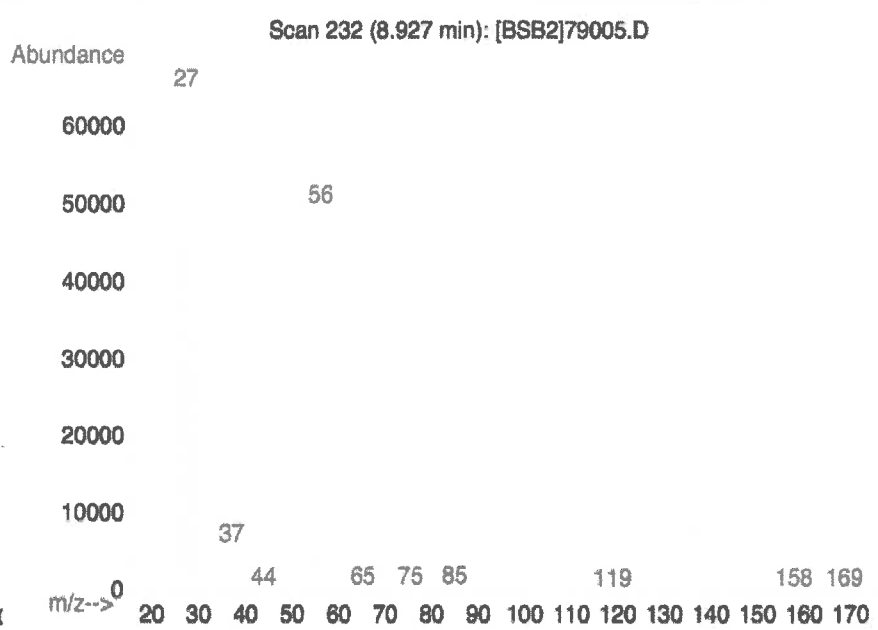
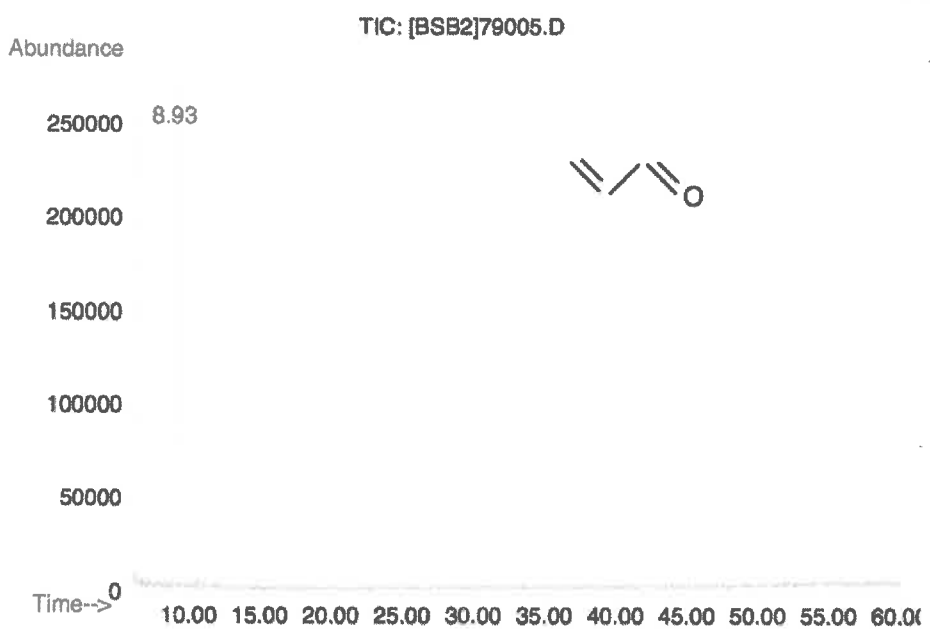
Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15057 +0
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	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

Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

<i>Eli Allaga</i>		081325
Formulated By:	Eli Allaga	DATE
<i>Pedro Rentas</i>		081325
Reviewed By:	Pedro L. Rentas	DATE

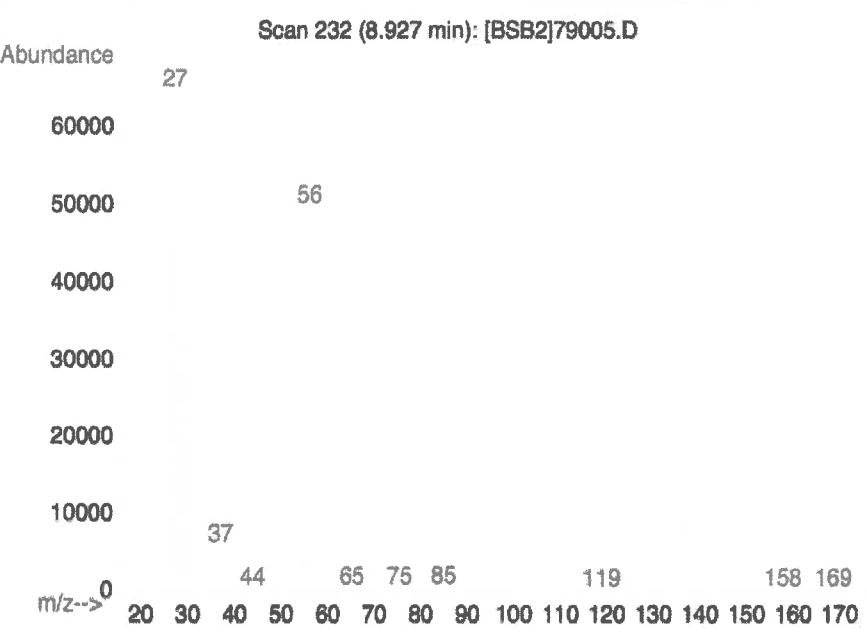
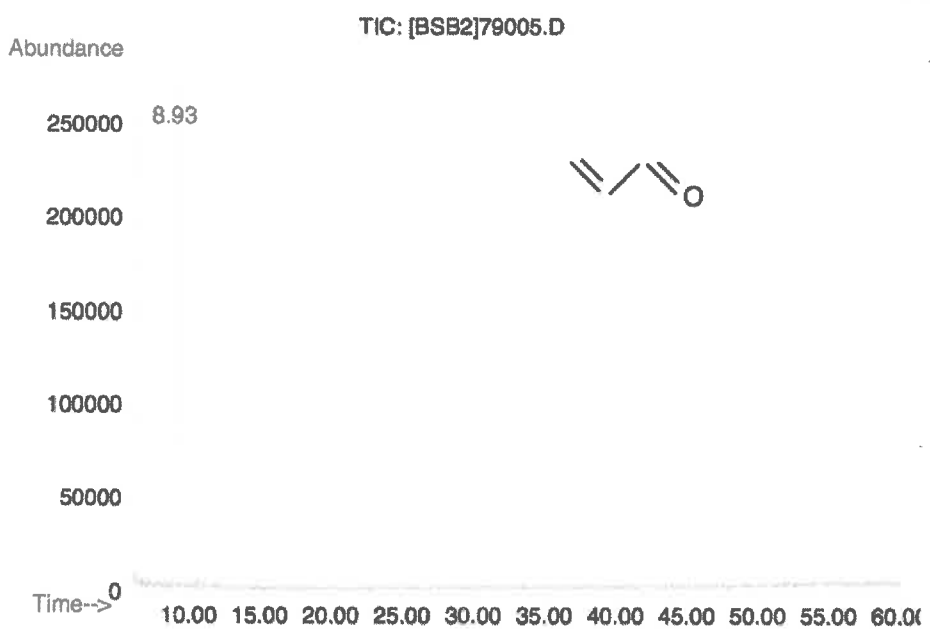
Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15057 +0
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	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
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• 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

Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s):
Water
Lot#: 041725Q

<i>Eli Allaga</i>		081325
Formulated By:	Eli Allaga	DATE
<i>Pedro Rentas</i>		081325
Reviewed By:	Pedro L. Rentas	DATE

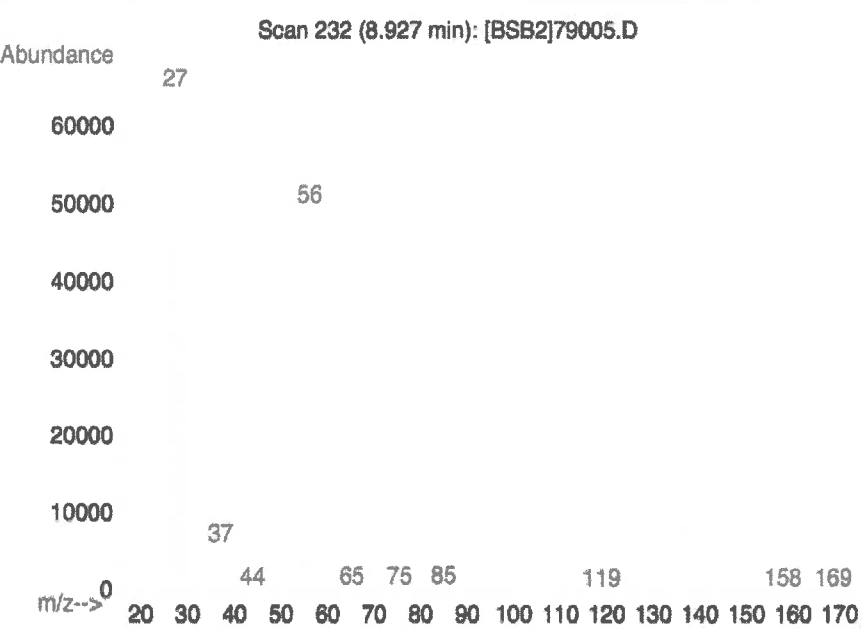
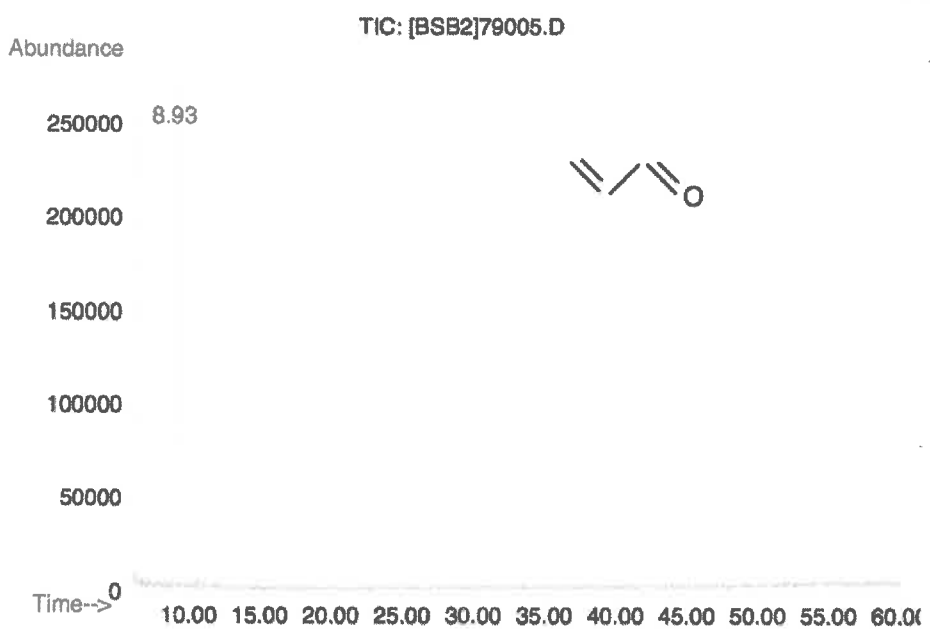
Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15057 +0
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

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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
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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



SHIPPING DOCUMENTS

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CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Jacobs**
ADDRESS: **412 Mt Kambie Ave Suite 100**
CITY **Morrisstown** STATE: **NJ** ZIP: **07960**
ATTENTION: **John Yufante John.Yufante@Jacobs.com**
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **STC PTL**
PROJECT NO.: **D3868221** 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 (7day) RAT** 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

Trace VOC's (SAMPLER) 1 2 3 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		F/E	1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	ML-06-G-S-0812-2025	GW		V	8/12/25	1530	3	✓										
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. [Signature]	DATE/TIME: 8/12/25 1700	RECEIVED BY: [Signature] 8-12-25 1700	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.0 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: [Signature]	Comments: "F" preservative is Ascorbic Acid
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 8-12-25	RECEIVED BY: [Signature]	Comments: See work order for list of site specific VOC

Page **2** of **2** CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Utsav Patel

From: Yazmeen Gomez
Sent: Thursday, August 14, 2025 10:30 AM
To: Ynfante, John; Sohil Jodhani
Cc: Mohammad Ahmed
Subject: RE: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.
Attachments: quant2841.pdf; quant2842.pdf

John,

The lab informed me –

Q2841- 42 sample screened with 8260 method as they are usually highly contaminated samples for Trichloroethene

Q2841-01 (MW-06-6.5-08122025) at 200x

Q2842-07(MW-17B-55.5-081225-SIM) 200x

Sample can be analyzed with 8260 under low dilution

Sim analysis is not possible as it may contaminate instrument

Please see attached.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

From: Ynfante, John <John.Ynfante@jacobs.com>
Sent: Wednesday, August 13, 2025 3:23 PM
To: Sohil Jodhani <Sohil.Jodhani@alliancetg.com>
Cc: Yazmeen Gomez <Yazmeen.Gomez@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>; Nimisha Pandya <Nimisha.Pandya@AllianceTG.com>
Subject: RE: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Thanks Sohil

From: Sohil Jodhani <Sohil.Jodhani@alliancetg.com>
Sent: Wednesday, August 13, 2025 1:23 PM
To: Ynfante, John <John.Ynfante@jacobs.com>
Cc: Yazmeen Gomez <Yazmeen.Gomez@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>;
 Nimisha Pandya <Nimisha.Pandya@AllianceTG.com>
Subject: RE: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.

Hi John,

Sample IDs are updated as per below request. Lab will notify you if in case VOC-SIM (for Vinyl chloride) is not required for the samples based on low level VOA analysis.

Thanks & Regards,



Sohil Jodhani (he/him/his)
 QA/QC Director
 Alliance Technical Group, LLC-Newark
 Main: 908-789-8900
 Direct: 908-728-3152
 Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com    

From: Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Sent: Wednesday, August 13, 2025 2:10 PM
To: Ynfante, John <John.Ynfante@jacobs.com>; Data-EWR <Data-EWR@alliancetg.com>; Yazmeen Gomez <yazmeen.gomez@alliancetg.com>
Cc: Sohil Jodhani <Sohil.Jodhani@alliancetg.com>
Subject: Re: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.

Hi John,
 yaz is our of the office today , but i will coordinate with lab to make sure we communicate with you and run these analysis accordingly



Mohammad Ahmed
 Laboratory Director
 An Alliance Technical Group Company
 Main: 908-789-8900
 Direct: 908-728-3151
 Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Ynfante, John <John.Ynfante@jacobs.com>

Sent: Wednesday, August 13, 2025 2:01 PM

To: Data-EWR <Data-EWR@alliancetg.com>; Yazmeen Gomez <yazmeen.gomez@alliancetg.com>

Subject: RE: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Yazmeen,

A couple of comments on this Princeton login for Q2842:

1. I assume your SFAM-SIM method for VOCs can still only report vinyl chloride out of our project list of VOCs – if that is the case then note that sample Q2842-07 (MW-17B-55.5-081225-SIM) and any other SFAM-SIM samples only need to be analyzed if their corresponding 8260D-Low analysis shows the vinyl chloride to be non-detect and of course if the lab is able to analyze them by SIM. I know up to this point the lab has said the concentrations have been too high in the SIM samples to even run the SFAM-SIM on so let me know how it looks on those after your analysts run the regular VOCs run on them.
2. The date part of the sample IDs should have used a MMDDYY format, not MMDDYYYY as is listed on the chain. Please change the “2025” bit to just “25” on all these sample IDs. For example, “RMW-03B-90.4-08122025” should be changed to “RMW-03B-90.4-081225”, etc.

Thanks

- John Y.

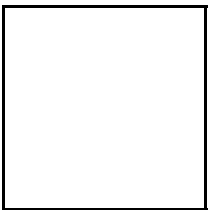
From: Data-EWR@alliancetg.com <Data-EWR@alliancetg.com>

Sent: Wednesday, August 13, 2025 9:38 AM

To: Ongjoco, Alec <Alec.Ongjoco@jacobs.com>; Dillon, Alexa <Alexa.Dillon@jacobs.com>; Lader, Chelsea <Chelsea.Lader@jacobs.com>; Holmes, Daniel <Daniel.Holmes@jacobs.com>; Reamer, David <David.Reamer@jacobs.com>; Ynfante, John <John.Ynfante@jacobs.com>; Murphy, Mary <Mary.Murphy@jacobs.com>; Warren, Melissa <Melissa.Warren@jacobs.com>; Asher, Sarah <Sarah.Asher@jacobs.com>

Cc: yazmeen.gomez@alliancetg.com

Subject: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.



To John Ynfante;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID : Q2842
Project ID : Former Schlumberger STC PTC Site D3868221
Download File : <https://chemtech.net/secureLogin.aspx>
Order Date : 8/13/2025 8:34:00 AM

Alliance's Project Manager : YAZMEEN GOMEZ , yazmeen.gomez@alliancetg.com , 908-728-3147
Alliance's Sales Executive : Jordan Hedvat , jordan.hedvat@alliancetg.com , 908-728-3144

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey <http://chemtech.net/ClientSurvey.aspx>.

Thank you,

Alliance Technical Group LLC.

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

■

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Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2841	JACO05	Order Date : 8/13/2025 8:15:00 AM	Project Mgr : Level 3/NJDKQP
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : ~~Level 4~~
Client Contact : Mary I. Murphy		Receive DateTime : 8/12/2025 6:22:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2841-01	MW-06-6.5-00422025 081225	Water	08/12/2025	15:30	~~VOC-SIM~~ VOCMS Group3		~~SFAM_VOCSIM~~ 8260-Low		5 Bus. Days

Relinquished By : 

Date / Time : 8-13-25 0915

Received By : 

Date / Time : 08/13/25 09:15 2844

Storage Area : VOA Refridgerator Room