

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : NJ DRINKING WATER PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P4635

ATTENTION : QA Officer



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4635

Project ID : NJ Drinking Water PT

Client : Chemtech Consulting Group

Lab Sample Number

P4635-01

Client Sample Number

PT-THM-WS

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: 12/2/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Chemtech Consulting Group

Project Name: NJ Drinking Water PT

Project # N/A

Chemtech Project # P4635

Test Name: VOCMS Group4

A. Number of Samples and Date of Receipt:

1 Water sample was received on 10/30/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group4. This data package contains results for VOCMS Group4.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of VOCMS Group4 was based on method 524.2.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample PT-THM-WS was diluted due to high concentration.

E. Additional Comments:

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.



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

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_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P4635

MATRIX: Water

METHOD: 524.2

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

ADDITIONAL COMMENTS:

Sample PT-THM-WS was diluted due to high concentration.

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

NA NO YES

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 #: P4635

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: SHREENA PATEL

Date: 12/02/2024

LAB CHRONICLE

OrderID:	P4635	OrderDate:	10/30/2024 11:45:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Drinking Water PT
Contact:	QA Officer	Location:	VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4635-01	PT-THM-WS	Water	VOCMS Group4	524.2	10/28/24		11/12/24	10/30/24
P4635-01DL	PT-THM-WSDL	Water	VOCMS Group4	524.2	10/28/24		11/12/24	10/30/24

Hit Summary Sheet
SW-846

SDG No.: P4635

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	PT-THM-WS							
P4635-01	PT-THM-WS	Water	Chloroform	30.7	E	0.13	0.50	ug/L
P4635-01	PT-THM-WS	Water	Bromodichloromethane	30.8	E	0.12	0.50	ug/L
P4635-01	PT-THM-WS	Water	Dibromochloromethane	49.4	E	0.13	0.50	ug/L
P4635-01	PT-THM-WS	Water	Bromoform	50.3	E	0.14	0.50	ug/L
			Total Voc :	161				
			Total Concentration:	161				
Client ID:	PT-THM-WSDL							
P4635-01DL	PT-THM-WSDL	Water	Chloroform	27.6	D	0.52	2.00	ug/L
P4635-01DL	PT-THM-WSDL	Water	Bromodichloromethane	25.6	D	0.48	2.00	ug/L
P4635-01DL	PT-THM-WSDL	Water	Dibromochloromethane	39.8	D	0.52	2.00	ug/L
P4635-01DL	PT-THM-WSDL	Water	Bromoform	39.3	D	0.56	2.00	ug/L
			Total Voc :	132				
			Total Concentration:	132				



QC SUMMARY

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Surrogate Summary

SDG No.: P4635

Client: Chemtech Consulting Group

Analytical Method: SW524.2

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4635-01	PT-THM-WS	1,2-Dichlorobenzene-d4	1	0.89	89	70	130
		4-Bromofluorobenzene	1	0.91	91	70	130
P4635-01DL	PT-THM-WSDL	1,2-Dichlorobenzene-d4	1	0.89	89	70	130
		4-Bromofluorobenzene	1	0.87	87	70	130
VU1112WBL01	VU1112WBL01	1,2-Dichlorobenzene-d4	1	0.90	90	70	130
		4-Bromofluorobenzene	1	0.86	86	70	130
VU1112WBS01	VU1112WBS01	1,2-Dichlorobenzene-d4	1	0.98	98	70	130
		4-Bromofluorobenzene	1	0.95	95	70	130
VU1112WBSD0	VU1112WBSD01	1,2-Dichlorobenzene-d4	1	0.98	98	70	130
		4-Bromofluorobenzene	1	0.98	98	70	130

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4635

Client: Chemtech Consulting Group

Analytical Method: SW524.2

Datafile : VU061607.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VU1112WBS01	Chloroform	2	2.10	ug/L	105			70	130	
	Bromodichloromethane	2	2.10	ug/L	105			70	130	
	Dibromochloromethane	2	2.00	ug/L	100			70	130	
	Bromoform	2	2.00	ug/L	100			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4635

Client: Chemtech Consulting Group

Analytical Method: SW524.2

Datafile : VU061608.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VU1112WBSD01	Chloroform	2	1.90	ug/L	95	10		70	130	20
	Bromodichloromethane	2	1.90	ug/L	95	10		70	130	20
	Dibromochloromethane	2	1.80	ug/L	90	11		70	130	20
	Bromoform	2	1.80	ug/L	90	11		70	130	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VU1112WBL01

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4635

SAS No.: P4635 SDG NO.: P4635

Lab File ID: VU061602.D

Lab Sample ID: VU1112WBL01

Date Analyzed: 11/12/2024

Time Analyzed: 13:15

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_U

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PT-THM-WS	P4635-01	VU061603.D	11/12/2024
VU1112WBS01	VU1112WBS01	VU061607.D	11/12/2024
VU1112WBSD01	VU1112WBSD01	VU061608.D	11/12/2024
PT-THM-WSDL	P4635-01DL	VU061609.D	11/12/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P4635 SAS No.: P4635 SDG NO.: P4635
 Lab File ID: VU061594.D BFB Injection Date: 11/12/2024
 Instrument ID: MSVOA_U BFB Injection Time: 07:51
 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	18.3
75	30.0 - 60.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	80.2
175	5.0 - 9.0% of mass 174	5.8 (7.3) 1
176	95.0 - 101.0% of mass 174	78.6 (98.1) 1
177	5.0 - 9.0% of mass 176	5 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC0.5	VSTDICC0.5	VU061595.D	11/12/2024	08:30
VSTDICC001	VSTDICC001	VU061596.D	11/12/2024	09:32
VSTDICC002	VSTDICC002	VU061597.D	11/12/2024	09:57
VSTDICC005	VSTDICC005	VU061598.D	11/12/2024	10:21
VSTDICCC010	VSTDICCC010	VU061599.D	11/12/2024	10:46
VSTDICC015	VSTDICC015	VU061600.D	11/12/2024	11:10
VU1112WBL01	VU1112WBL01	VU061602.D	11/12/2024	13:15
PT-THM-WS	P4635-01	VU061603.D	11/12/2024	14:44
VU1112WBS01	VU1112WBS01	VU061607.D	11/12/2024	17:24
VU1112WBSD01	VU1112WBSD01	VU061608.D	11/12/2024	17:49
PT-THM-WSDL	P4635-01DL	VU061609.D	11/12/2024	18:13

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4635 SAS No.: P4635 SDG NO.: P4635
Lab File ID: VU061599.D Date Analyzed: 11/12/2024
Instrument ID: MSVOA_U Time Analyzed: 10:46
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	48524	6.11	0	0.00	0	0.00
UPPER LIMIT	63081.2	6.607	0		0	
LOWER LIMIT	33966.8	5.607	0		0	
EPA SAMPLE NO.						
PT-THM-WS	44472	6.11	0	0.00	0	0.00
PT-THM-WSDL	43489	6.11	0	0.00	0	0.00
VU1112WBL01	46549	6.11	0	0.00	0	0.00
VU1112WBS01	45006	6.11	0	0.00	0	0.00
VU1112WBSD01	45920	6.11	0	0.00	0	0.00

IS1 = Fluorobenzene

IS2 =

IS3 =

AREA UPPER LIMIT = +30% of internal standard area

AREA LOWER LIMIT = -30% 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:	Chemtech Consulting Group	Date Collected:	10/28/24
Project:	NJ Drinking Water PT	Date Received:	10/30/24
Client Sample ID:	PT-THM-WS	SDG No.:	P4635
Lab Sample ID:	P4635-01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU061603.D	1		11/12/24 14:44	VU111224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
67-66-3	Chloroform	30.7	E	0.13	0.50	ug/L
75-27-4	Bromodichloromethane	30.8	E	0.12	0.50	ug/L
124-48-1	Dibromochloromethane	49.4	E	0.13	0.50	ug/L
75-25-2	Bromoform	50.3	E	0.14	0.50	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	0.89		70 - 130	89%	SPK: 1
460-00-4	4-Bromofluorobenzene	0.91		70 - 130	91%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	44500	6.11			

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_U\Data\VU111224\
Data File : VU061603.D
Acq On : 12 Nov 2024 14:44
Operator : MD/SY
Sample : P4635-01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WS

Quant Time: Nov 13 05:07:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 05:00:10 2024
Response via : Initial Calibration

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

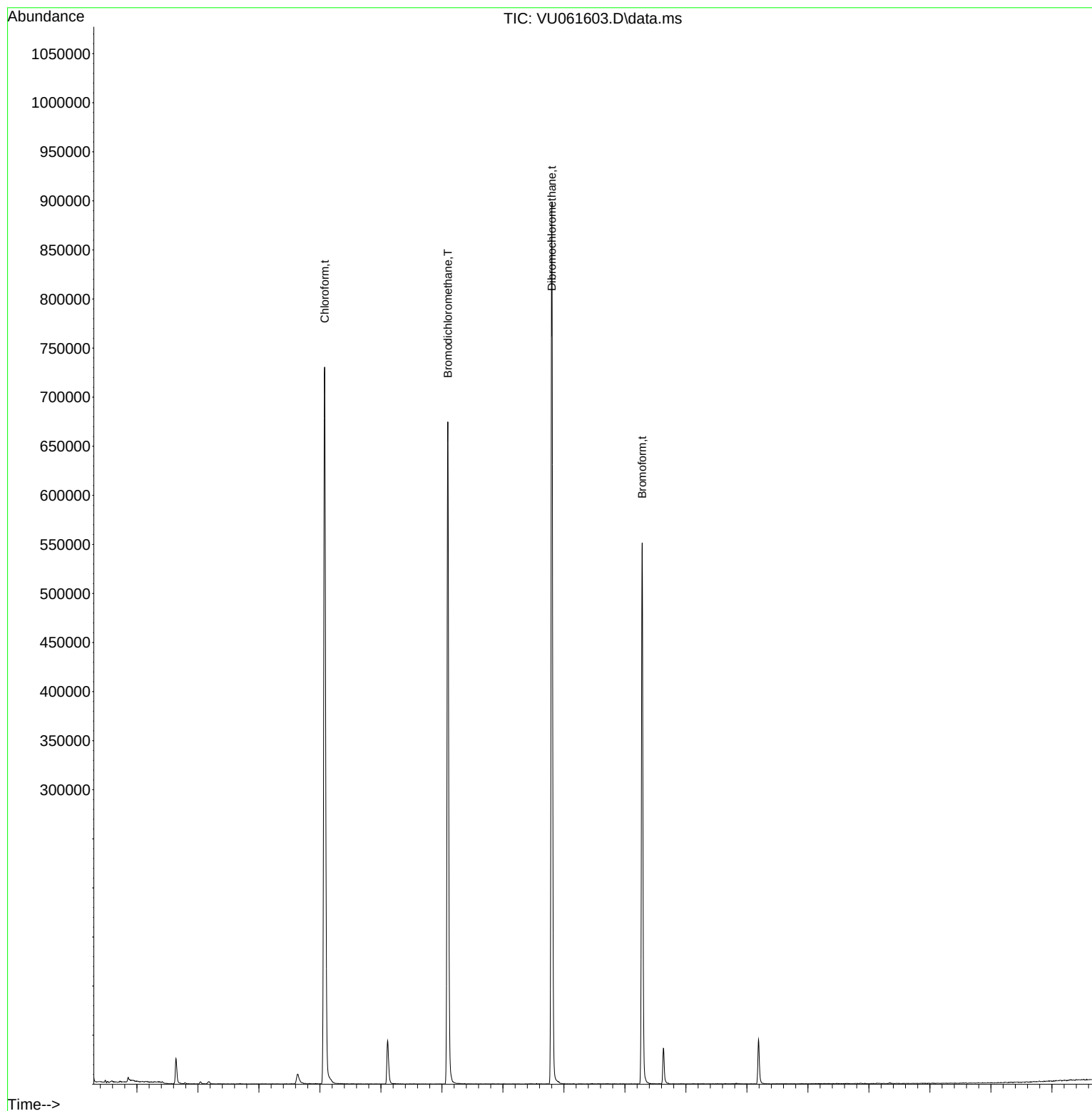
Internal Standards						
1) Fluorobenzene	6.110	96	44472	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	13989	0.907	ug/l	0.00
Spiked Amount	1.000		Recovery	=	91.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	13735	0.894	ug/l	0.00
Spiked Amount	1.000		Recovery	=	89.000%	
Target Compounds						
						Qvalue
27) Chloroform	5.078	83	665759	30.690	ug/l	100
44) Bromodichloromethane	7.097	83	443486	30.771	ug/l	99
55) Dibromochloromethane	8.801	129	467784	49.396	ug/l	100
67) Bromoform	10.283	173	247137	50.305	ug/l	100

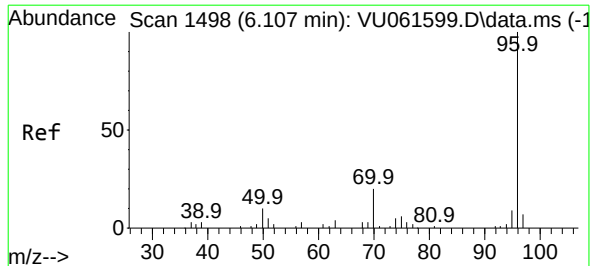
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
Data File : VU061603.D
Acq On : 12 Nov 2024 14:44
Operator : MD/SY
Sample : P4635-01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WS

Quant Time: Nov 13 05:07:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 05:00:10 2024
Response via : Initial Calibration

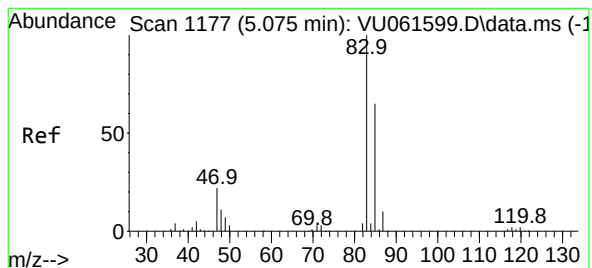
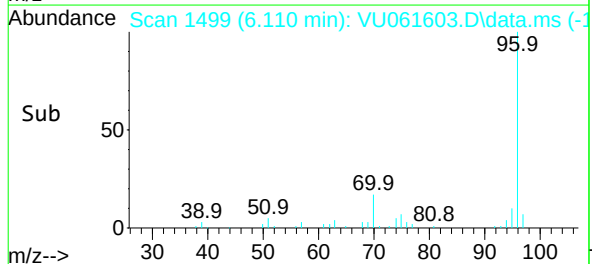
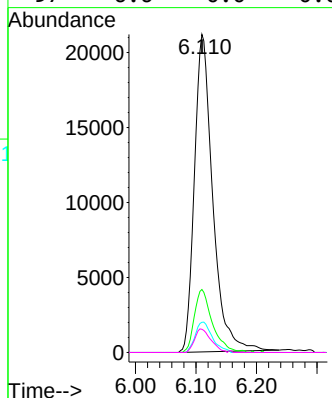
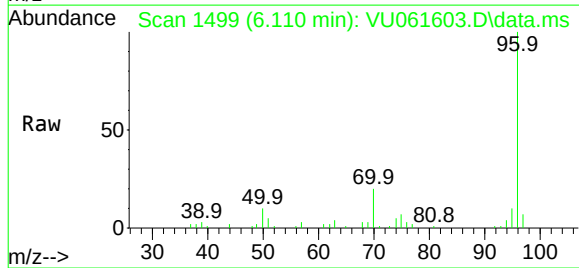




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1498
Delta R.T. 0.003 min
Lab File: VU061603.D
Acq: 12 Nov 2024 14:44

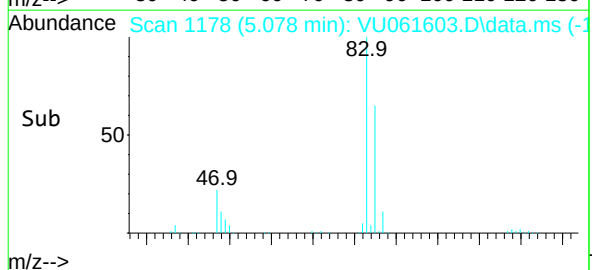
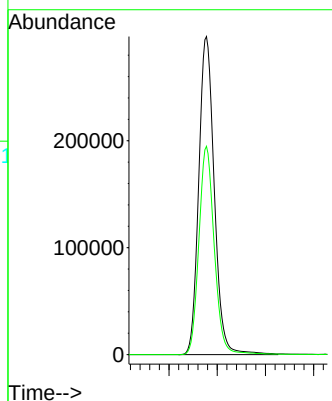
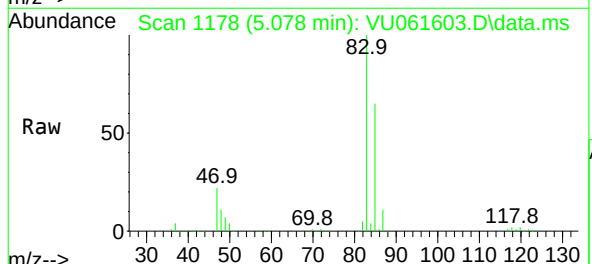
Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WS

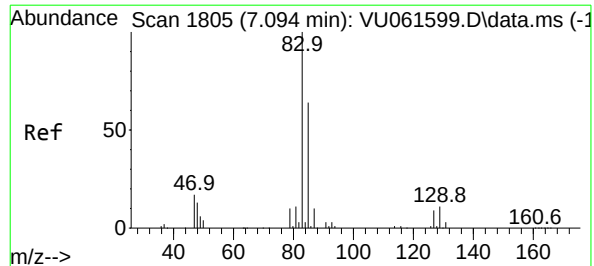
Tgt Ion: 96 Resp: 44472
Ion Ratio Lower Upper
96 100
70 18.7 15.8 23.6
95 9.0 7.3 10.9
97 6.6 0.0 0.0#



#27
Chloroform
Concen: 30.690 ug/l
RT: 5.078 min Scan# 1178
Delta R.T. 0.003 min
Lab File: VU061603.D
Acq: 12 Nov 2024 14:44

Tgt Ion: 83 Resp: 665759
Ion Ratio Lower Upper
83 100
85 65.5 0.0 130.6





#44

Bromodichloromethane

Concen: 30.771 ug/l

RT: 7.097 min Scan# 18

Delta R.T. 0.003 min

Lab File: VU061603.D

Acq: 12 Nov 2024 14:44

Instrument :

MSVOA_U

ClientSampleId :

PT-THM-WS

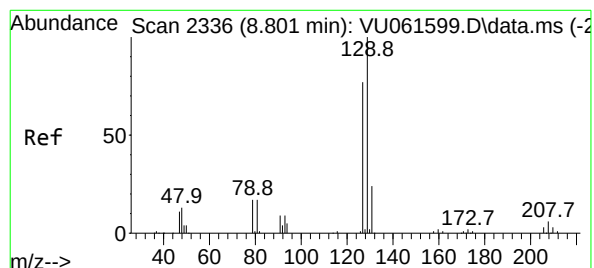
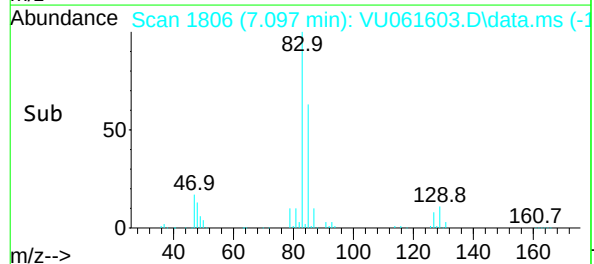
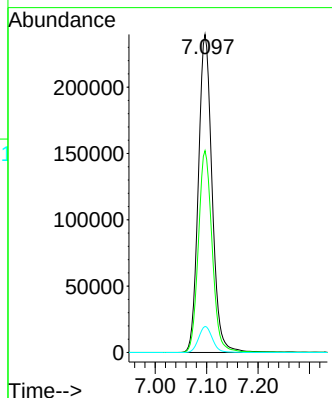
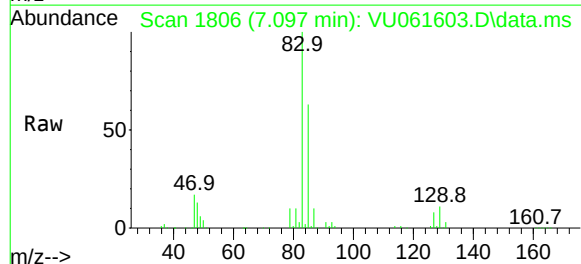
Tgt Ion: 83 Resp: 443486

Ion Ratio Lower Upper

83 100

85 63.5 51.4 77.0

127 8.2 7.2 10.8



#55

Dibromochloromethane

Concen: 49.396 ug/l

RT: 8.801 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VU061603.D

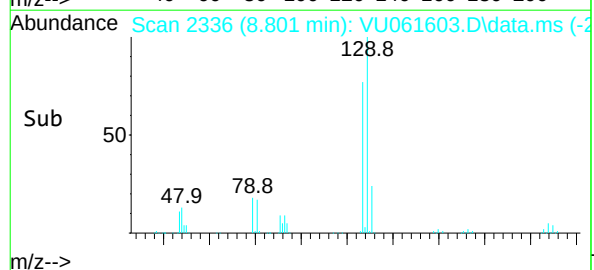
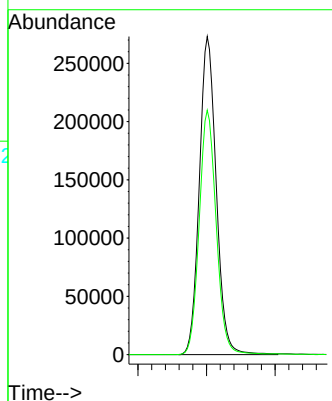
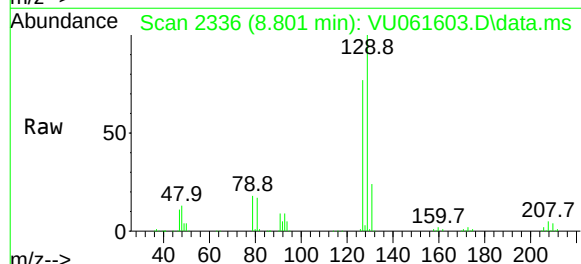
Acq: 12 Nov 2024 14:44

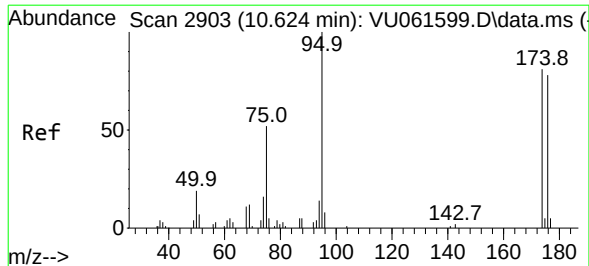
Tgt Ion: 129 Resp: 467784

Ion Ratio Lower Upper

129 100

127 77.3 61.8 92.8





#57

4-Bromofluorobenzene

Concen: 0.907 ug/l

RT: 10.634 min Scan# 29

Delta R.T. 0.009 min

Lab File: VU061603.D

Acq: 12 Nov 2024 14:44

Instrument :

MSVOA_U

ClientSampleId :

PT-THM-WS

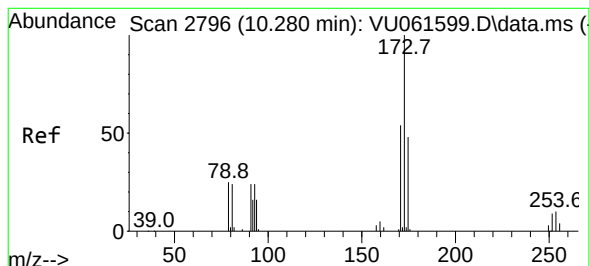
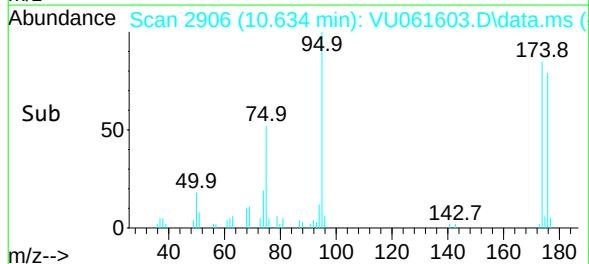
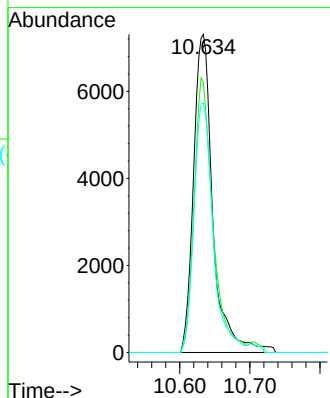
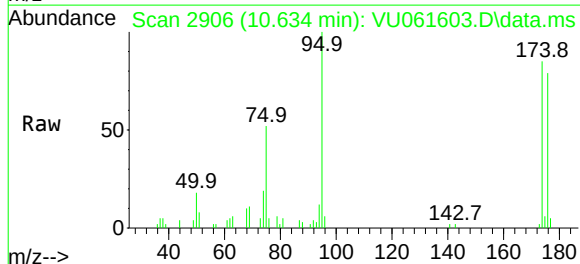
Tgt Ion: 95 Resp: 13989

Ion Ratio Lower Upper

95 100

174 83.5 67.5 101.3

176 78.1 62.7 94.1



#67

Bromoform

Concen: 50.305 ug/l

RT: 10.283 min Scan# 2797

Delta R.T. 0.003 min

Lab File: VU061603.D

Acq: 12 Nov 2024 14:44

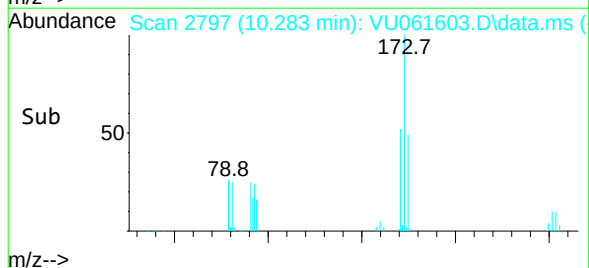
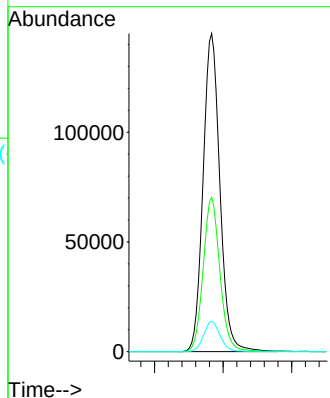
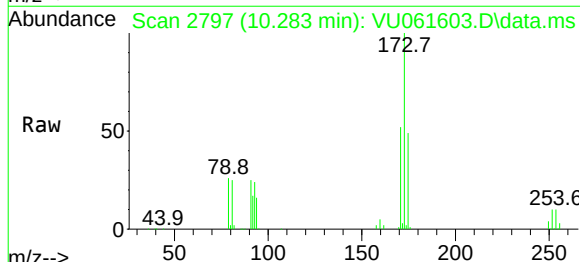
Tgt Ion: 173 Resp: 247137

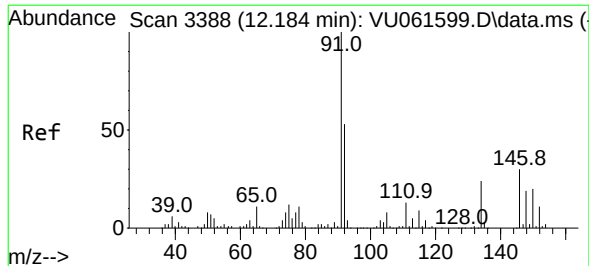
Ion Ratio Lower Upper

173 100

175 48.1 38.4 57.6

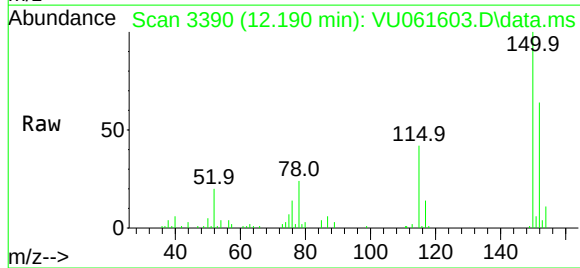
254 9.3 7.7 11.5



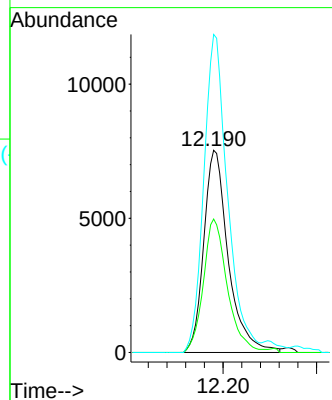
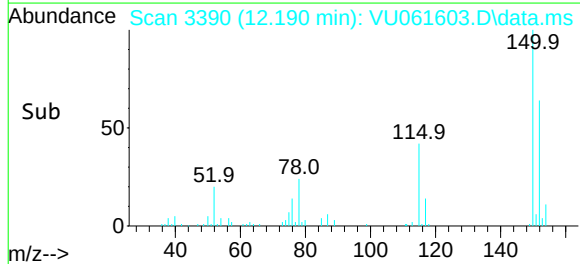


1,2-Dichlorobenzene-d4
Concen: 0.894 ug/l
RT: 12.190 min Scan# 3388
Delta R.T. 0.006 min
Lab File: VU061603.D
Acq: 12 Nov 2024 14:44

Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WS



Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.5	0.0	259.0
150	152.2	0.0	650.2



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/28/24
Project:	NJ Drinking Water PT	Date Received:	10/30/24
Client Sample ID:	PT-THM-WSDL	SDG No.:	P4635
Lab Sample ID:	P4635-01DL	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU061609.D	4		11/12/24 18:13	VU111224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
67-66-3	Chloroform	27.6	D	0.52	2.00	ug/L
75-27-4	Bromodichloromethane	25.6	D	0.48	2.00	ug/L
124-48-1	Dibromochloromethane	39.8	D	0.52	2.00	ug/L
75-25-2	Bromoform	39.3	D	0.56	2.00	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	0.89		70 - 130	89%	SPK: 1
460-00-4	4-Bromofluorobenzene	0.87		70 - 130	87%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	43500	6.11			

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_U\Data\VU111224\
Data File : VU061609.D
Acq On : 12 Nov 2024 18:13
Operator : MD/SY
Sample : P4635-01DL 4X
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WSDL

Quant Time: Nov 13 05:10:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 05:00:10 2024
Response via : Initial Calibration

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

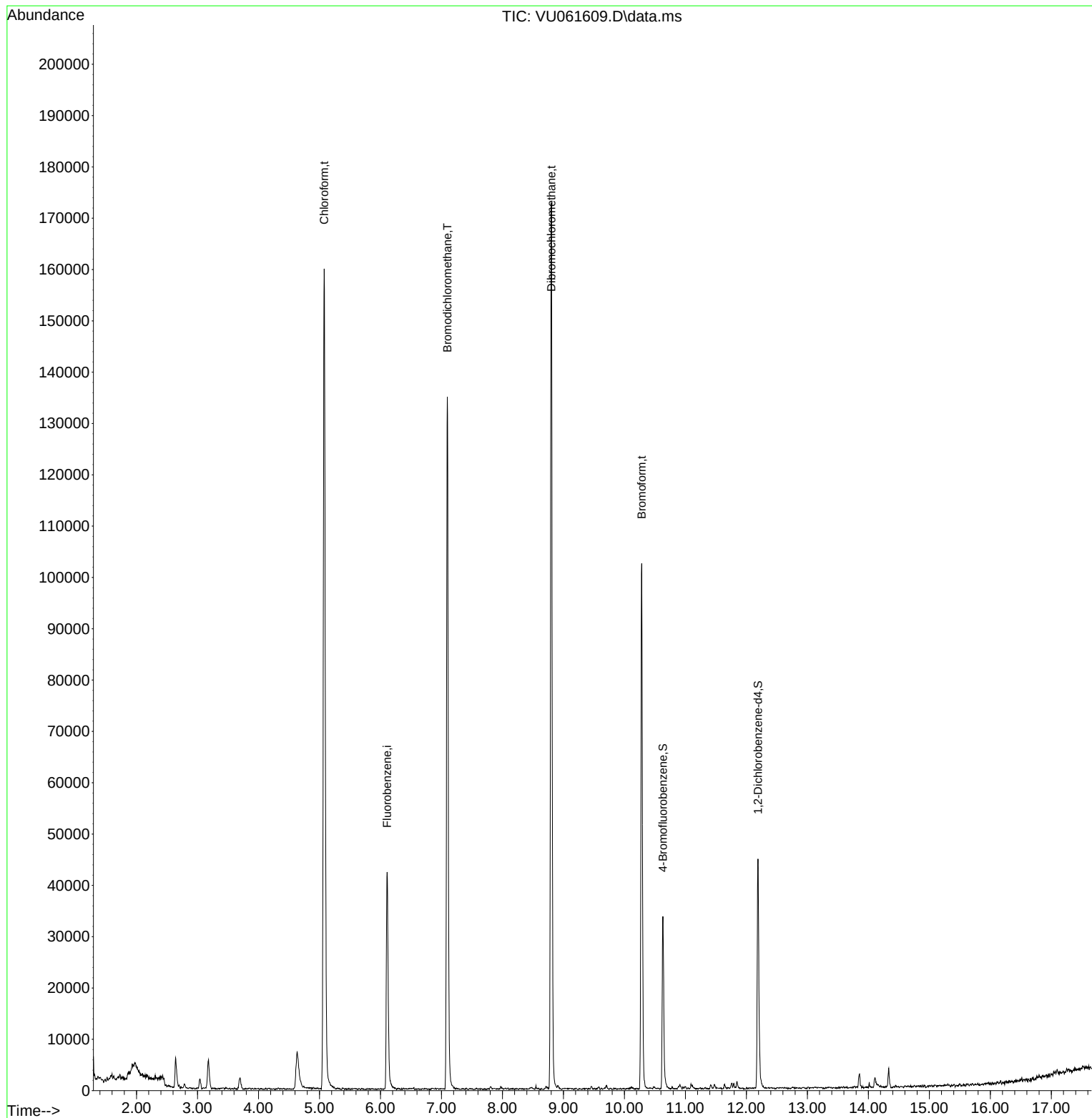
Internal Standards						
1) Fluorobenzene	6.110	96	43489	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	13052	0.865	ug/l	0.00
Spiked Amount 1.000			Recovery	=	87.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	13347	0.888	ug/l	0.00
Spiked Amount 1.000			Recovery	=	89.000%	
Target Compounds						
						Qvalue
27) Chloroform	5.078	83	146214	6.892	ug/l	100
44) Bromodichloromethane	7.097	83	90187	6.399	ug/l	98
55) Dibromochloromethane	8.801	129	92231	9.959	ug/l	100
67) Bromoform	10.283	173	47237	9.832	ug/l	100

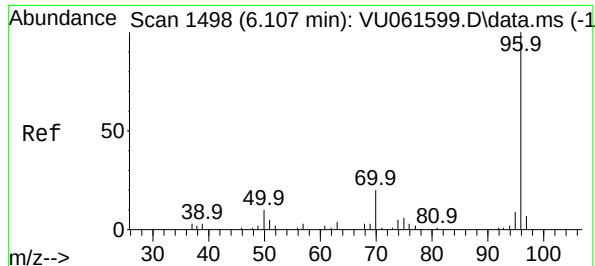
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSV0A_U\Data\VU111224\
Data File : VU061609.D
Acq On : 12 Nov 2024 18:13
Operator : MD/SY
Sample : P4635-01DL 4X
Misc : 25mL/MSV0A_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSV0A_U
ClientSampleId :
PT-THM-WSDL

Quant Time: Nov 13 05:10:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSV0A_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 05:00:10 2024
Response via : Initial Calibration

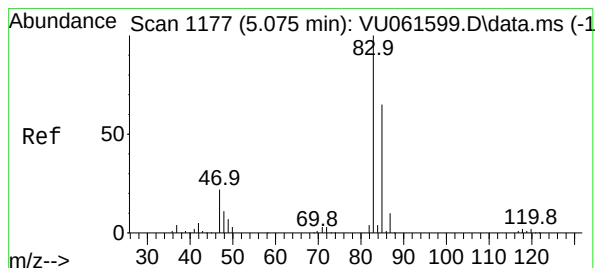
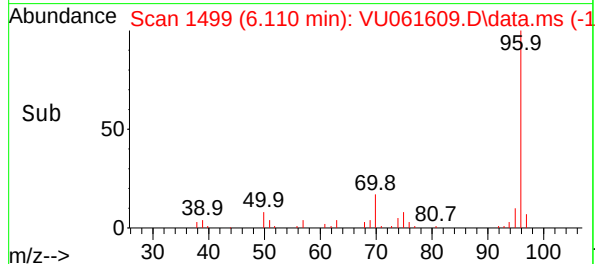
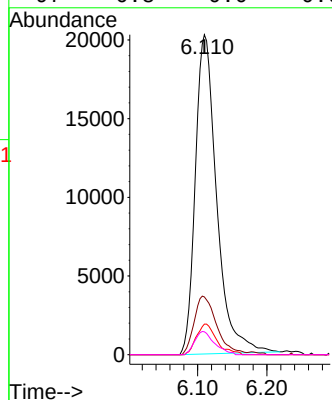
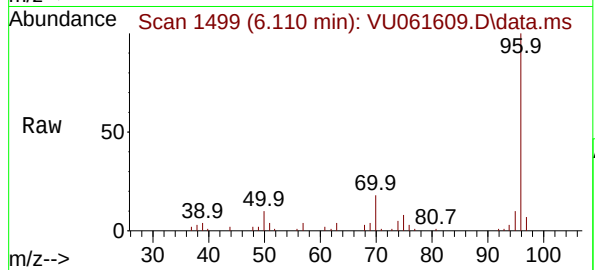




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1499
Delta R.T. 0.003 min
Lab File: VU061609.D
Acq: 12 Nov 2024 18:13

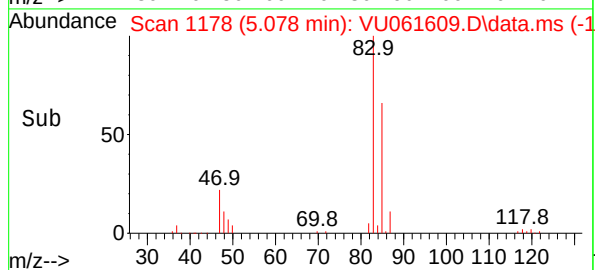
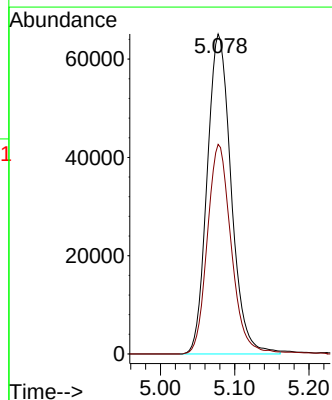
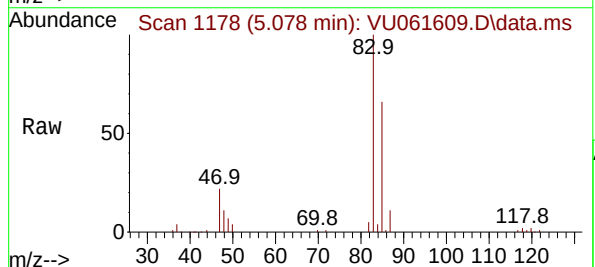
Instrument :
MSVOA_U
ClientSampleId :
PT-THM-WSDL

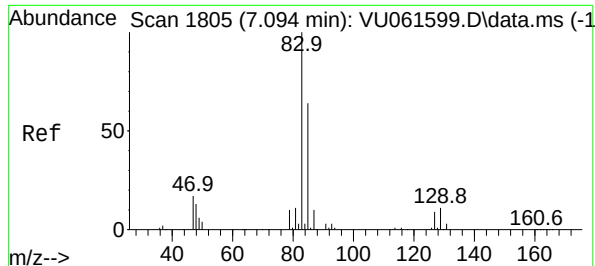
Tgt Ion: 96 Resp: 43489
Ion Ratio Lower Upper
96 100
70 18.5 15.8 23.6
95 9.1 7.3 10.9
97 6.8 0.0 0.0#



#27
Chloroform
Concen: 6.892 ug/l
RT: 5.078 min Scan# 1178
Delta R.T. 0.003 min
Lab File: VU061609.D
Acq: 12 Nov 2024 18:13

Tgt Ion: 83 Resp: 146214
Ion Ratio Lower Upper
83 100
85 65.5 0.0 130.6





#44

Bromodichloromethane

Concen: 6.399 ug/l

RT: 7.097 min Scan# 1806

Delta R.T. 0.003 min

Lab File: VU061609.D

Acq: 12 Nov 2024 18:13

Instrument :

MSVOA_U

ClientSampleId :

PT-THM-WSDL

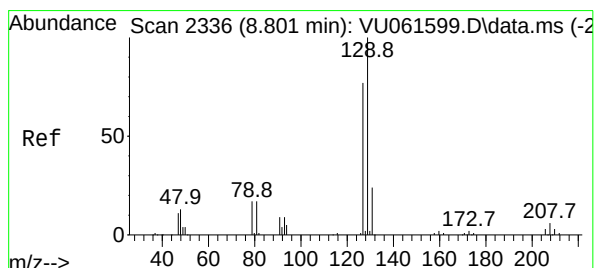
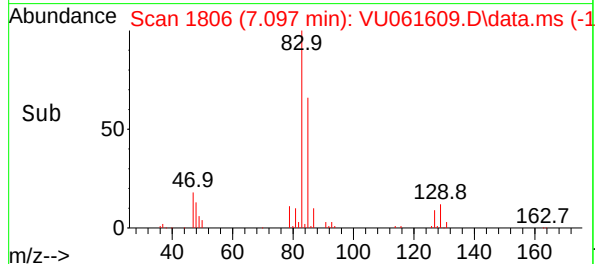
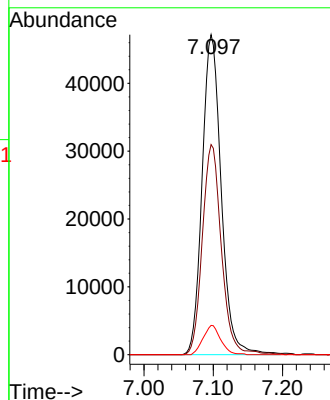
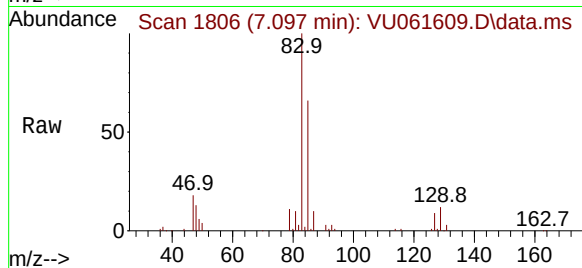
Tgt Ion: 83 Resp: 90187

Ion Ratio Lower Upper

83 100

85 65.7 51.4 77.0

127 10.0 7.2 10.8



#55

Dibromochloromethane

Concen: 9.959 ug/l

RT: 8.801 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VU061609.D

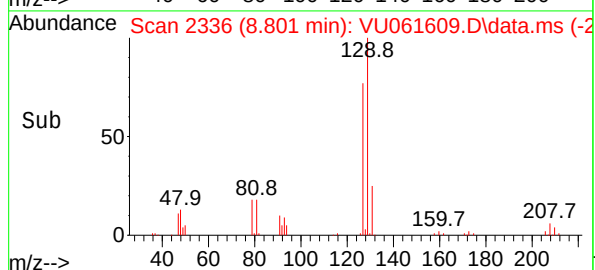
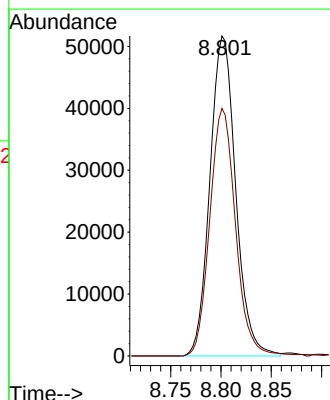
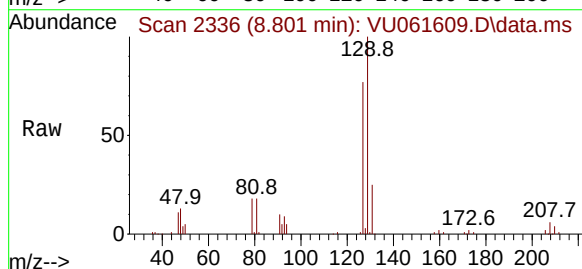
Acq: 12 Nov 2024 18:13

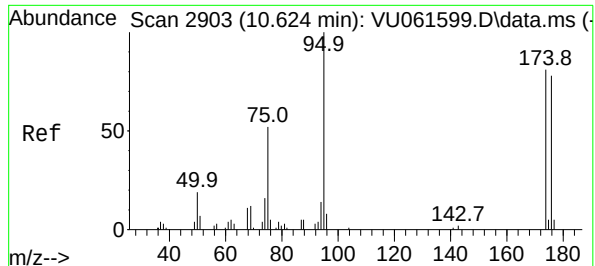
Tgt Ion: 129 Resp: 92231

Ion Ratio Lower Upper

129 100

127 77.1 61.8 92.8





#57

4-Bromofluorobenzene

Concen: 0.865 ug/l

RT: 10.630 min Scan# 2905

Delta R.T. 0.006 min

Lab File: VU061609.D

Acq: 12 Nov 2024 18:13

Instrument :

MSVOA_U

ClientSampleId :

PT-THM-WSDL

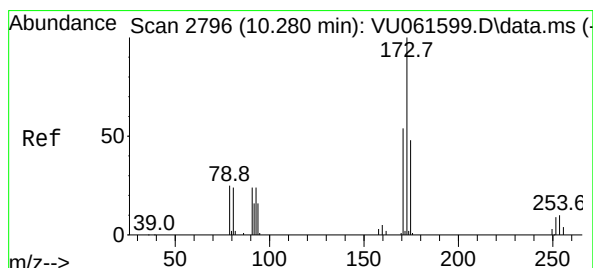
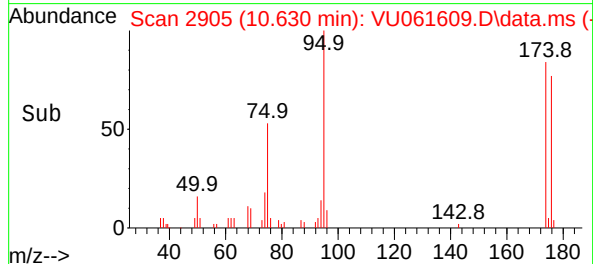
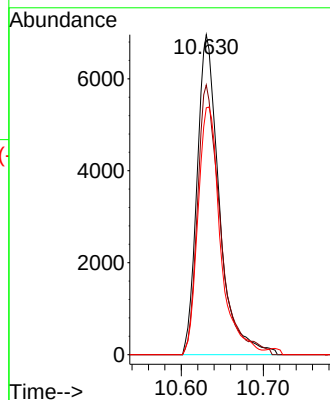
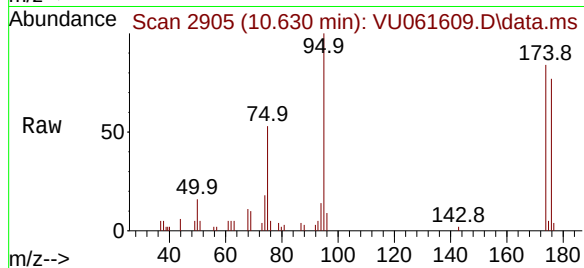
Tgt Ion: 95 Resp: 13052

Ion Ratio Lower Upper

95 100

174 86.6 67.5 101.3

176 78.8 62.7 94.1



#67

Bromoform

Concen: 9.832 ug/l

RT: 10.283 min Scan# 2797

Delta R.T. 0.003 min

Lab File: VU061609.D

Acq: 12 Nov 2024 18:13

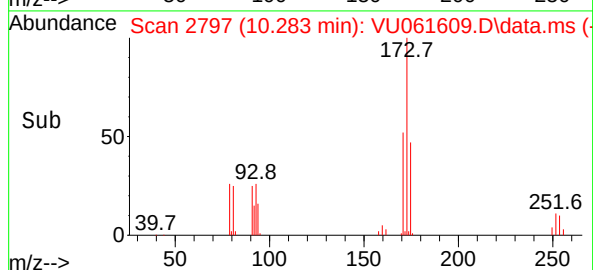
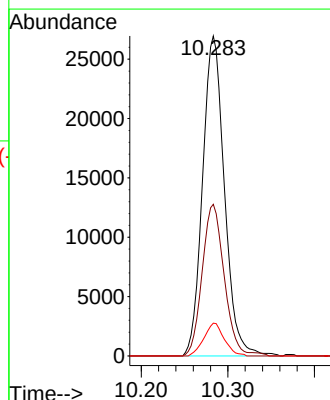
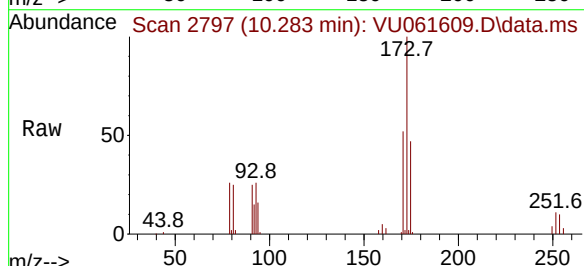
Tgt Ion: 173 Resp: 47237

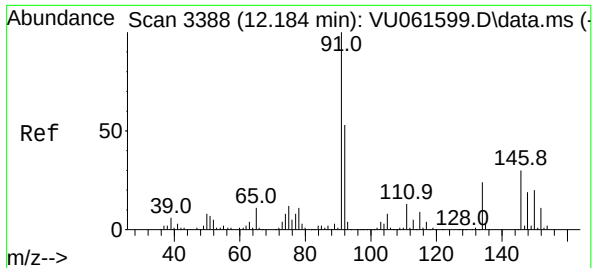
Ion Ratio Lower Upper

173 100

175 47.8 38.4 57.6

254 9.6 7.7 11.5





#68

1,2-Dichlorobenzene-d4

Concen: 0.888 ug/l

RT: 12.190 min Scan# 3390

Delta R.T. 0.006 min

Lab File: VU061609.D

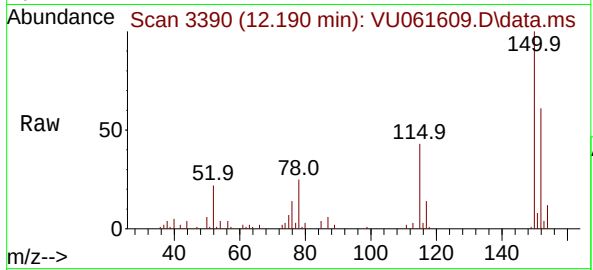
Acq: 12 Nov 2024 18:13

Instrument :

MSVOA_U

ClientSampleId :

PT-THM-WSDL



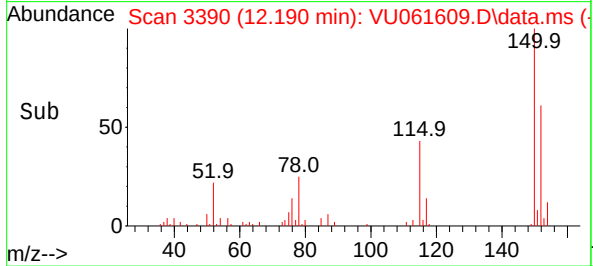
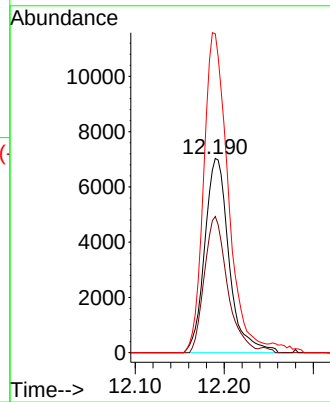
Tgt Ion:152 Resp: 13347

Ion Ratio Lower Upper

152 100

115 66.6 0.0 259.0

150 164.9 0.0 650.2





CALIBRATION SUMMARY

1
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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: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P4635 SAS No.: P4635 SDG No.: P4635
 Instrument ID: MSVOA_U Calibration Date(s): 11/12/2024 11/12/2024
 Heated Purge: (Y/N) N Calibration Time(s): 08:30 11:10
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF0.5 = VU061595.D		RRF001 = VU061596.D		RRF002 = VU061597.D			
		RRF005 = VU061598.D		RRF010 = VU061599.D		RRF015 = VU061600.D			
COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	RRF	% RSD	
Chloroform	0.469	0.450	0.454	0.518	0.541	0.495	0.488	7.5	
Bromodichloromethane	0.298	0.281	0.298	0.350	0.371	0.347	0.324	11.3	
Dibromochloromethane	0.175	0.184	0.185	0.232	0.257	0.246	0.213	16.9	
Bromoform	0.089	0.089	0.095	0.120	0.137	0.133	0.110	20.2	
1,2-Dichlorobenzene-d4	0.322	0.317	0.347	0.355	0.380	0.353	0.346	6.7	
4-Bromofluorobenzene	0.354	0.330	0.325	0.357	0.362	0.354	0.347	4.5	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
 Method File : 524U111224DW.M
 Title : METHOD 524.2 VOLATILES DRINKING WATER
 Last Update : Wed Nov 13 05:00:10 2024
 Response Via : Initial Calibration

Calibration Files

0.5 =VU061595.D 1 =VU061596.D 2 =VU061597.D 5 =VU061598.D 10 =VU061599.D 15 =VU061600.

D

Compound		0.5	1	2	5	10	15	Avg	%RSD

1) i	Fluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.262	0.239	0.236	0.280	0.279	0.247	0.257	7.56
3) t	Chloromethane	0.255	0.231	0.237	0.254	0.264	0.234	0.246	5.50
4) Rt	Vinyl Chloride	0.276	0.254	0.263	0.294	0.301	0.272	0.277	6.46
5) T	Bromomethane	0.186	0.160	0.159	0.174	0.189	0.179	0.175	7.24
6) T	Chloroethane	0.287	0.208	0.187	0.228	0.226	0.206	0.224	15.33
7) T	Trichlorofluor...	0.401	0.365	0.369	0.424	0.435	0.382	0.396	7.37
8)	1,1,2-Trichlor...	0.207	0.197	0.203	0.227	0.232	0.205	0.212	6.62
9) Rt	1,1-Dichloroet...	0.216	0.209	0.201	0.241	0.244	0.221	0.222	7.85
10) t	Iodomethane		0.132	0.164	0.227	0.270	0.268	0.212	29.18
11) t	Allyl Chloride	0.247	0.228	0.235	0.274	0.292	0.266	0.257	9.61
12) t	Acrylonitrile	0.038	0.037	0.042	0.049	0.052	0.046	0.044	13.27
13) T	Acetone	0.080	0.063	0.053	0.062	0.059	0.050	0.061	16.89
14) T	Carbon Disulfide	0.720	0.669	0.656	0.754	0.793	0.712	0.717	7.13
15) RT	Methylene Chlo...	0.266	0.255	0.249	0.283	0.291	0.265	0.268	6.02
16) RT	trans-1,2-Dich...	0.246	0.238	0.236	0.273	0.291	0.263	0.258	8.45
17) t	1,1-Dichloroet...	0.440	0.432	0.427	0.489	0.510	0.461	0.460	7.24
18) T	2-Butanone	0.069	0.069	0.067	0.076	0.076	0.069	0.071	5.54
19)	Cyclohexane	0.355	0.333	0.331	0.412	0.426	0.381	0.373	10.84
20)	Methylcyclohexane	0.385	0.352	0.376	0.464	0.492	0.442	0.418	13.28
21) T	2,2-Dichloropr...	0.377	0.332	0.335	0.391	0.412	0.372	0.370	8.52
22) RT	cis-1,2-Dichlo...	0.272	0.241	0.262	0.302	0.320	0.292	0.281	10.16
23) t	Diethyl Ether	0.159	0.156	0.156	0.174	0.182	0.165	0.165	6.37
24) t	tert-Butyl Alc...		0.015	0.014	0.019	0.019	0.017	0.017	13.26
25) t	Methyl tert-Bu...	0.499	0.486	0.501	0.583	0.620	0.576	0.544	10.25
26) t	Bromochloromet...	0.116	0.113	0.112	0.135	0.140	0.128	0.124	9.73
27) t	Chloroform	0.469	0.450	0.454	0.518	0.541	0.495	0.488	7.51
28) RT	1,1,1-Trichlor...	0.365	0.369	0.373	0.438	0.460	0.413	0.403	9.97
29) T	1,1-Dichloropr...	0.346	0.319	0.334	0.386	0.414	0.373	0.362	9.79
30) RT	Carbon Tetrach...	0.312	0.303	0.317	0.378	0.398	0.363	0.345	11.53
31) t	Isopropyl Ether	0.570	0.545	0.559	0.648	0.699	0.651	0.612	10.22
32)	Ethyl-t-butyl ...	0.543	0.512	0.521	0.627	0.677	0.630	0.585	11.68
33)	Tert-Amyl meth...	0.467	0.444	0.485	0.576	0.621	0.579	0.529	13.68
34) t	Propionitrile	0.014	0.015	0.017	0.019	0.020	0.018	0.017	12.11
35) RT	Benzene	0.981	0.999	1.005	1.160	1.224	1.107	1.079	9.25
36) RT	1,2-Dichloroet...	0.289	0.277	0.275	0.323	0.333	0.301	0.300	8.01
37) RT	Trichloroethene	0.258	0.273	0.262	0.309	0.322	0.290	0.286	9.08
38) Rt	1,2-Dichloropr...	0.264	0.238	0.247	0.289	0.307	0.280	0.271	9.59
39) t	Methacrylonitrile	0.044	0.051	0.055	0.067	0.073	0.066	0.059	18.69
40) t	Methyl acrylate	0.096	0.098	0.112	0.106	0.115	0.128	0.109	10.82
41) t	Tetrahydrofuran	0.031	0.030	0.030	0.038	0.038	0.034	0.034	11.15
42) t	1-Chlorobutane	0.394	0.386	0.430	0.498	0.532	0.473	0.452	12.96
43) T	Dibromomethane	0.135	0.132	0.132	0.153	0.162	0.148	0.144	8.87
44) T	Bromodichlorom...	0.298	0.281	0.298	0.350	0.371	0.347	0.324	11.25
45) T	4-Methyl-2-Pen...	0.130	0.116	0.119	0.144	0.151	0.141	0.133	10.51
46) t	t-1,4-Dichloro...	0.066	0.069	0.074	0.081	0.082	0.067	0.073	9.38
47) t	Methyl methacr...	0.091	0.091	0.104	0.130	0.138	0.130	0.114	18.46
48) t	Ethyl methacry...	0.192	0.186	0.203	0.257	0.282	0.269	0.232	18.37
49) Rt	Toluene	0.594	0.588	0.593	0.716	0.766	0.698	0.659	11.75
50) T	t-1,3-Dichloro...	0.240	0.244	0.252	0.322	0.349	0.332	0.290	17.18
51) T	cis-1,3-Dichlo...	0.343	0.316	0.329	0.396	0.439	0.408	0.372	13.25
52) RT	1,1,2-Trichlor...	0.191	0.175	0.181	0.210	0.222	0.201	0.197	9.03
53) t	1,3-Dichloropr...	0.306	0.306	0.315	0.364	0.378	0.346	0.336	9.34
54) t	2-Hexanone	0.136	0.099	0.099	0.120	0.120	0.109	0.114	12.66
55) t	Dibromochlorom...	0.175	0.184	0.185	0.232	0.257	0.246	0.213	16.87
56) T	1,2-Dibromoethane	0.168	0.164	0.173	0.201	0.210	0.195	0.185	10.36

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\										
Method File : 524U111224DW.M										
57)	S	4-Bromofluorob...	0.354	0.330	0.325	0.357	0.362	0.354	0.347	4.48
58)	RT	Tetrachloroethene	0.245	0.238	0.242	0.277	0.285	0.256	0.257	7.60
59)	Rt	Chlorobenzene	0.656	0.642	0.668	0.785	0.844	0.773	0.728	11.46
60)	T	1,1,1,2-Tetrac...	0.208	0.208	0.216	0.263	0.283	0.264	0.240	13.89
61)	t	Pentachloroethane	0.153	0.145	0.157	0.203	0.223	0.203	0.181	18.17
62)	t	Hexachloroethane	0.122	0.122	0.138	0.181	0.211	0.195	0.162	24.06
63)	Rt	Ethyl Benzene	1.084	1.042	1.091	1.352	1.454	1.331	1.226	14.19
64)	RT	m/p-Xylenes	0.395	0.384	0.426	0.527	0.578	0.522	0.472	17.08
65)	RT	o-Xylene	0.412	0.381	0.401	0.509	0.552	0.506	0.460	15.36
66)	RT	Styrene	0.543	0.563	0.610	0.815	0.901	0.823	0.709	21.82
67)	t	Bromoform	0.089	0.089	0.095	0.120	0.137	0.133	0.110	20.21
68)	S	1,2-Dichlorobe...	0.322	0.317	0.347	0.355	0.380	0.353	0.346	6.75
69)	T	Isopropylbenzene	0.920	0.896	0.948	1.196	1.312	1.188	1.077	16.39
70)	T	1,1,2,2-Tetrac...	0.226	0.212	0.223	0.264	0.275	0.254	0.242	10.54
71)	T	1,2,3-Trichlor...	0.183	0.183	0.179	0.202	0.218	0.205	0.195	8.07
72)	t	Bromobenzene	0.246	0.255	0.254	0.307	0.337	0.313	0.285	13.41
73)	t	n-propylbenzene	0.266	0.250	0.280	0.358	0.395	0.361	0.318	18.97
74)	t	2-Chlorotoluene	0.228	0.244	0.253	0.321	0.345	0.313	0.284	17.01
75)	t	1,3,5-Trimethy...	0.793	0.771	0.858	1.110	1.221	1.096	0.975	19.55
76)	t	4-Chlorotoluene	0.230	0.233	0.263	0.333	0.366	0.328	0.292	19.76
77)	t	tert-Butylbenzene	0.766	0.772	0.846	1.067	1.188	1.070	0.952	18.85
78)	t	1,2,4-Trimethy...	0.776	0.781	0.847	1.116	1.240	1.111	0.979	20.57
79)	t	sec-Butylbenzene	1.034	1.025	1.125	1.422	1.564	1.398	1.261	18.15
80)		Nitrobenzene	0.002	0.003	0.004	0.005	0.005	0.005	0.003	38.76
81)	t	p-Isopropyltol...	0.792	0.783	0.888	1.166	1.313	1.172	1.019	22.20
82)	t	1,3-Dichlorobe...	0.483	0.473	0.491	0.597	0.668	0.601	0.552	14.67
83)	Rt	1,4-Dichlorobe...	0.488	0.464	0.488	0.598	0.674	0.604	0.553	15.26
84)	t	n-Butylbenzene	0.728	0.733	0.820	1.074	1.206	1.080	0.940	21.83
85)	Rt	1,2-Dichlorobe...	0.455	0.439	0.468	0.573	0.621	0.570	0.521	14.66
86)	t	1,2-Dibromo-3-...	0.026	0.024	0.026	0.035	0.039	0.037	0.031	21.86
87)	Rt	1,2,4-Trichlor...	0.235	0.217	0.249	0.319	0.376	0.361	0.293	23.21
88)	t	Hexachlorobuta...	0.155	0.148	0.159	0.188	0.204	0.190	0.174	13.20
89)	t	Naphthalene	0.369	0.323	0.366	0.516	0.623	0.621	0.469	28.78
90)	t	1,2,3-Trichlor...	0.220	0.209	0.220	0.295	0.337	0.333	0.269	22.14

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061595.D
 Acq On : 12 Nov 2024 08:30
 Operator : MD/SY
 Sample : VSTDICC0.5
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICC0.5

Quant Time: Nov 13 04:40:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 04:39:24 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

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

Internal Standards						
1) Fluorobenzene	6.110	96	47452	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	16791	1.020	ug/l	0.00
Spiked Amount	1.000		Recovery	=	102.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	15262	0.931	ug/l	0.00
Spiked Amount	1.000		Recovery	=	93.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	6214	0.509	ug/l	100
3) Chloromethane	1.519	50	6039	0.518	ug/l	93
4) Vinyl Chloride	1.602	62	6544	0.499	ug/l	96
5) Bromomethane	1.856	94	4422	0.534	ug/l	98
6) Chloroethane	1.933	64	6805	0.641	ug/l	91
7) Trichlorofluoromethane	2.133	101	9515	0.507	ug/l	95
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	4911	0.488	ug/l	99
9) 1,1-Dichloroethene	2.576	96	5118	0.486	ug/l	95
11) Allyl Chloride	2.917	41	5853	0.480	ug/l	93
12) Acrylonitrile	3.348	53	1795m	0.862	ug/l	
13) Acetone	2.647	43	9478	3.259	ug/l	99
14) Carbon Disulfide	2.789	76	17087	0.502	ug/l	100
15) Methylene Chloride	3.043	84	6311	0.496	ug/l	99
16) trans-1,2-Dichloroethene	3.351	96	5825	0.476	ug/l	98
17) 1,1-Dichloroethane	3.862	63	10437	0.478	ug/l	98
18) 2-Butanone	4.740	43	8220	2.437	ug/l	96
19) Cyclohexane	5.377	56	8433m	0.476	ug/l	
20) Methylcyclohexane	6.756	83	9131	0.460	ug/l	97
21) 2,2-Dichloropropane	4.650	77	8948	0.510	ug/l	96
22) cis-1,2-Dichloroethene	4.663	96	6443	0.483	ug/l	97
23) Diethyl Ether	2.377	59	3776	0.481	ug/l	93
25) Methyl tert-Butyl Ether	3.358	73	11842	0.459	ug/l	96
26) Bromochloromethane	4.972	128	2763	0.470	ug/l	96
27) Chloroform	5.081	83	11123	0.481	ug/l	91
28) 1,1,1-Trichloroethane	5.306	97	8654	0.453	ug/l	96
29) 1,1-Dichloropropene	5.525	75	8203	0.477	ug/l	94
30) Carbon Tetrachloride	5.515	117	7412	0.452	ug/l	99
31) Isopropyl Ether	3.985	45	13516	0.465	ug/l	98
32) Ethyl-t-butyl ether	4.489	59	12887	0.464	ug/l	100
33) Tert-Amyl methyl ether	5.936	73	11082	0.442	ug/l	98
34) Propionitrile	4.827	54	1698m	2.155	ug/l	
35) Benzene	5.772	78	23267	0.454	ug/l	95
36) 1,2-Dichloroethane	5.792	62	6867	0.483	ug/l	95
37) Trichloroethene	6.541	130	6131	0.452	ug/l	95
38) 1,2-Dichloropropane	6.785	63	6261	0.487	ug/l	100
39) Methacrylonitrile	5.007	41	1043m	0.370	ug/l	
40) Methyl acrylate	4.914	55	2273m	0.445	ug/l	
41) Tetrahydrofuran	5.078	42	1484m	0.931	ug/l	
42) 1-Chlorobutane	5.454	56	9343	0.436	ug/l	83
43) Dibromomethane	6.917	93	3200	0.470	ug/l	98
44) Bromodichloromethane	7.100	83	7063	0.459	ug/l	93
45) 4-Methyl-2-Pentanone	7.795	43	15419	2.434	ug/l	97
46) t-1,4-Dichloro-2-butene	10.820	75	3130m	0.894	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061595.D
 Acq On : 12 Nov 2024 08:30
 Operator : MD/SY
 Sample : VSTDICC0.5
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC0.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:40:16 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Methyl methacrylate	6.972	69	4318	0.799	ug/l	94
48) Ethyl methacrylate	8.338	69	4557	0.415	ug/l	100
49) Toluene	7.968	92	14089	0.451	ug/l	100
50) t-1,3-Dichloropropene	8.210	75	5699	0.414	ug/l	99
51) cis-1,3-Dichloropropene	7.605	75	8145	0.461	ug/l	96
52) 1,1,2-Trichloroethane	8.396	97	4538	0.486	ug/l	92
53) 1,3-Dichloropropane	8.570	76	7249	0.455	ug/l	99
54) 2-Hexanone	8.692	43	16101	2.983	ug/l	92
55) Dibromochloromethane	8.804	129	4145	0.410	ug/l	95
56) 1,2-Dibromoethane	8.920	107	3982	0.454	ug/l	98
58) Tetrachloroethene	8.547	164	5802	0.476	ug/l	98
59) Chlorobenzene	9.444	112	15558	0.450	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.528	131	4937	0.433	ug/l	91
61) Pentachloroethane	11.415	117	3639	0.424	ug/l	90
62) Hexachloroethane	12.467	117	2905	0.678	ug/l	99
63) Ethyl Benzene	9.566	91	25730	0.442	ug/l	96
64) m/p-Xylenes	9.689	106	18762	0.838	ug/l	97
65) o-Xylene	10.097	106	9773	0.447	ug/l	92
66) Styrene	10.113	104	12886	0.597	ug/l	98
67) Bromoform	10.287	173	2104	0.401	ug/l #	93
69) Isopropylbenzene	10.480	105	21818	0.427	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.775	83	5351	0.466	ug/l	99
71) 1,2,3-Trichloropropane	10.820	75	4344m	0.464	ug/l	
72) Bromobenzene	10.782	156	5845	0.432	ug/l	79
73) n-propylbenzene	10.901	120	6300	0.417	ug/l	99
74) 2-Chlorotoluene	10.981	126	5411	0.402	ug/l	89
75) 1,3,5-Trimethylbenzene	11.081	105	18804	0.407	ug/l	97
76) 4-Chlorotoluene	11.097	126	5451	0.393	ug/l	84
77) tert-Butylbenzene	11.412	119	18183	0.403	ug/l	96
78) 1,2,4-Trimethylbenzene	11.463	105	18414	0.572	ug/l	99
79) sec-Butylbenzene	11.637	105	24523	0.410	ug/l	98
81) p-Isopropyltoluene	11.788	119	18789	0.584	ug/l	95
82) 1,3-Dichlorobenzene	11.743	146	11451	0.437	ug/l	98
83) 1,4-Dichlorobenzene	11.833	146	11578	0.442	ug/l	96
84) n-Butylbenzene	12.203	91	17270	0.582	ug/l	98
85) 1,2-Dichlorobenzene	12.209	146	10790	0.436	ug/l	98
86) 1,2-Dibromo-3-Chloropr...	13.000	75	611	0.706	ug/l	88
87) 1,2,4-Trichlorobenzene	13.840	180	5587	0.755	ug/l	99
88) Hexachlorobutadiene	14.013	225	3678	0.445	ug/l	96
89) Naphthalene	14.094	128	8747	0.875	ug/l	97
90) 1,2,3-Trichlorobenzene	14.328	180	5231	0.774	ug/l	97

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

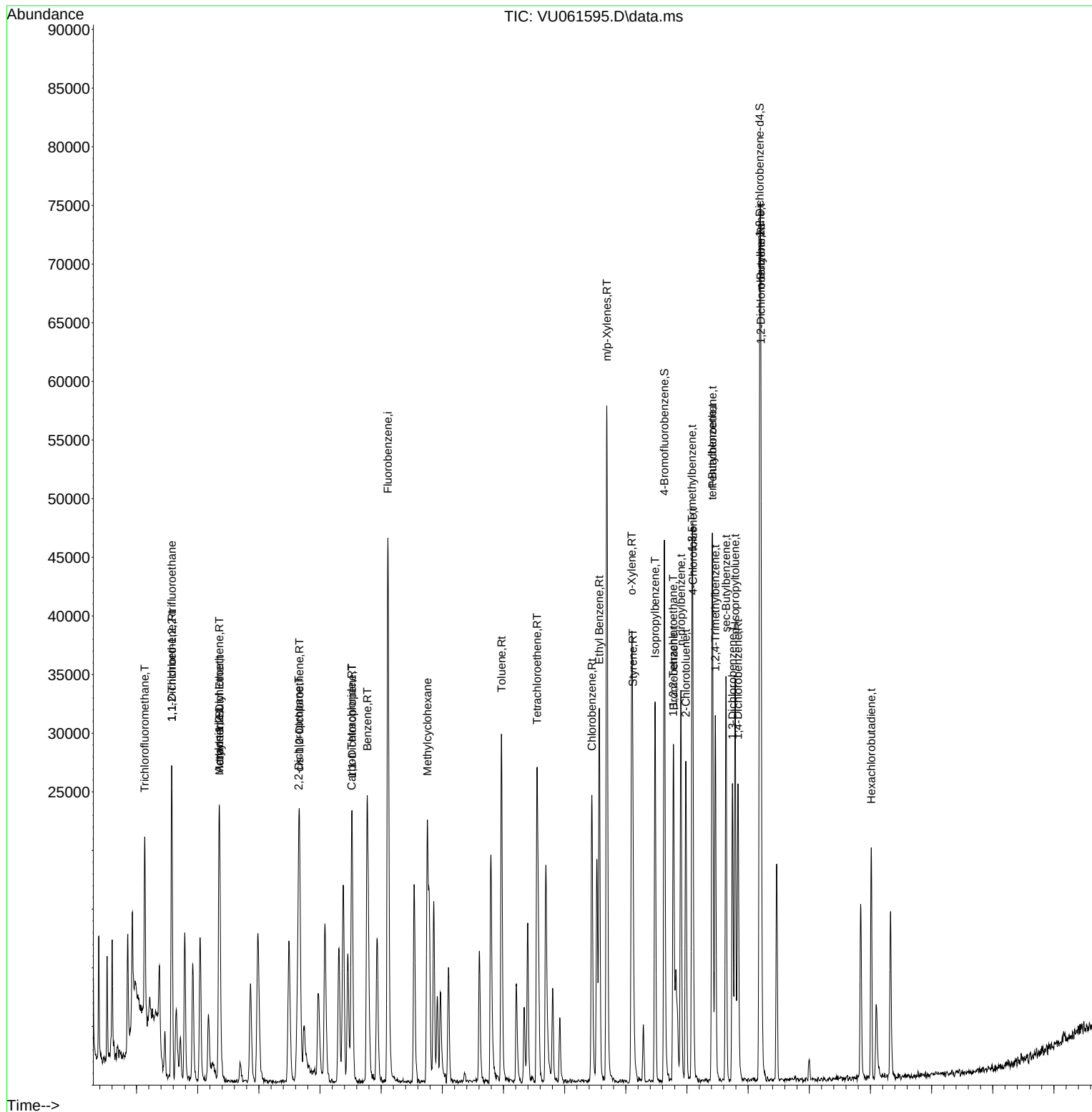
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Data File : VU061595.D  
Acq On    : 12 Nov 2024  08:30  
Operator  : MD/SY  
Sample    : VSTDIC0.5  
Misc      : 25mL/MSVOA_U/WATER  
ALS Vial  : 1   Sample Multiplier: 1
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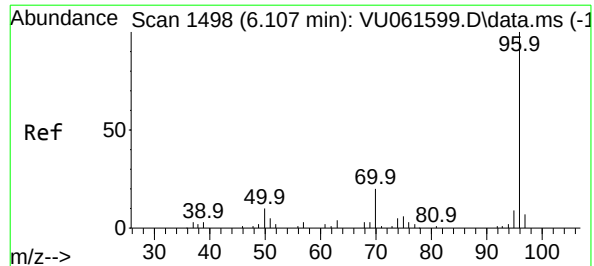
Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:40:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 04:39:24 2024
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.110 min Scan# 14

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 96 Resp: 47452

Ion Ratio Lower Upper

96 100

70 20.0 15.8 23.6

95 8.9 7.3 10.9

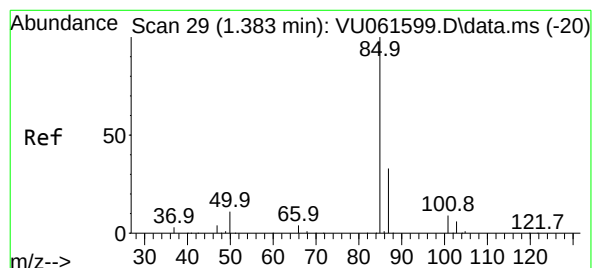
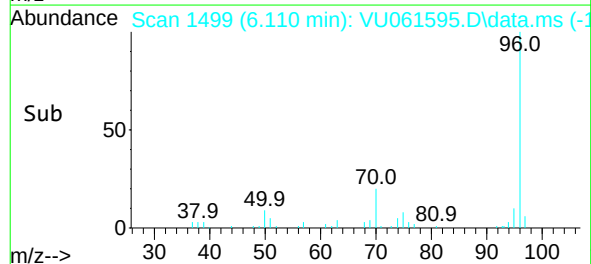
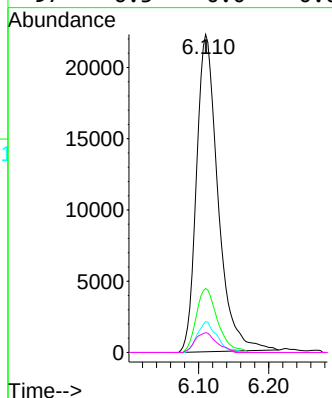
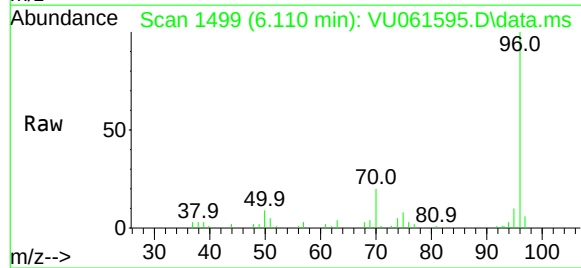
97 6.3 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#2

Dichlorodifluoromethane

Concen: 0.509 ug/l

RT: 1.383 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061595.D

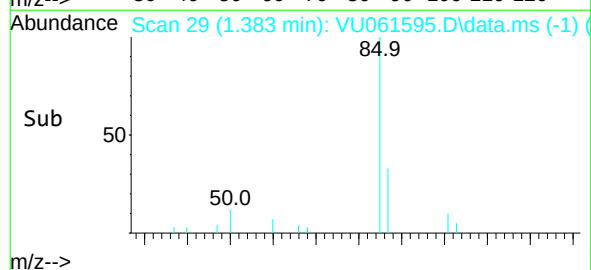
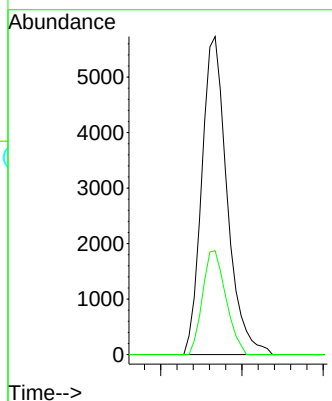
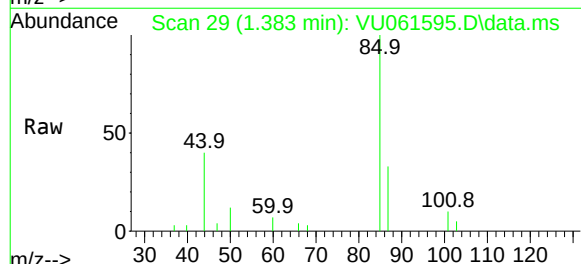
Acq: 12 Nov 2024 08:30

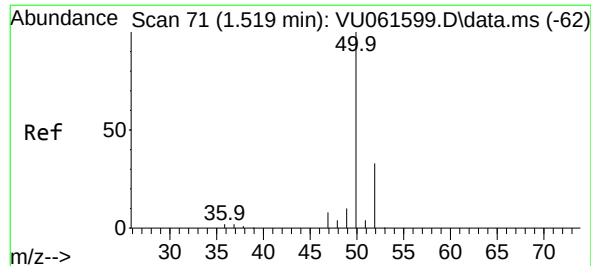
Tgt Ion: 85 Resp: 6214

Ion Ratio Lower Upper

85 100

87 32.7 16.4 49.2





#3

Chloromethane

Concen: 0.518 ug/l

RT: 1.519 min Scan# 71

Delta R.T. 0.000 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 50 Resp: 6039

Ion Ratio Lower Upper

50 100

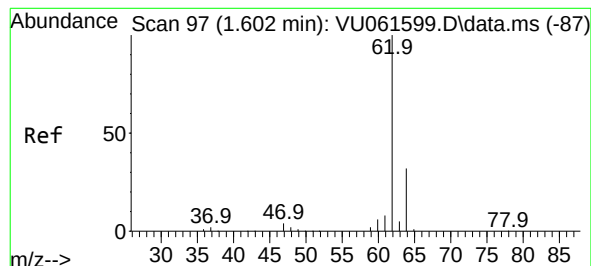
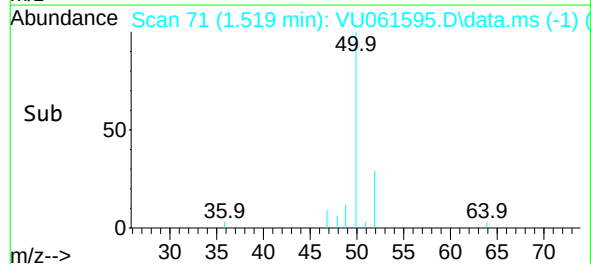
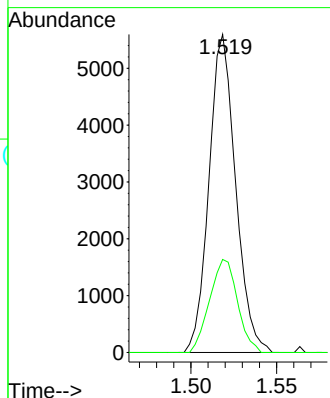
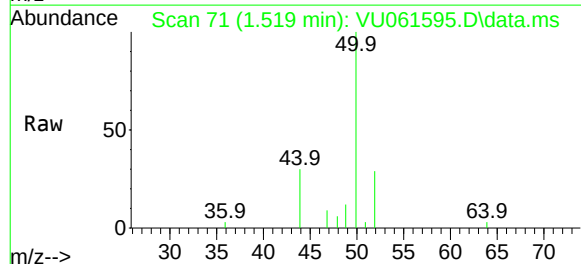
52 29.3 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 0.499 ug/l

RT: 1.602 min Scan# 97

Delta R.T. 0.000 min

Lab File: VU061595.D

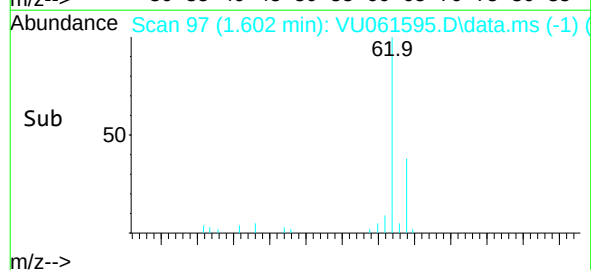
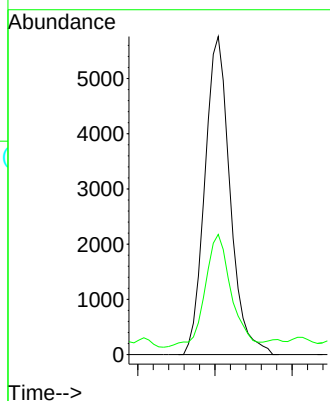
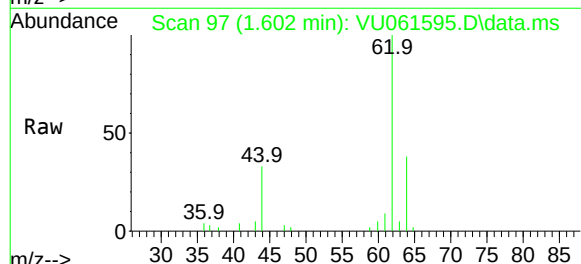
Acq: 12 Nov 2024 08:30

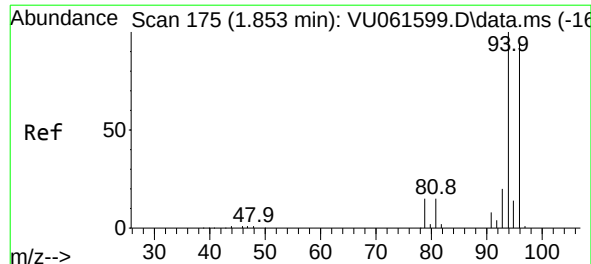
Tgt Ion: 62 Resp: 6544

Ion Ratio Lower Upper

62 100

64 34.1 25.6 38.4





#5

Bromomethane

Concen: 0.534 ug/l

RT: 1.856 min Scan# 17

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 94 Resp: 4422

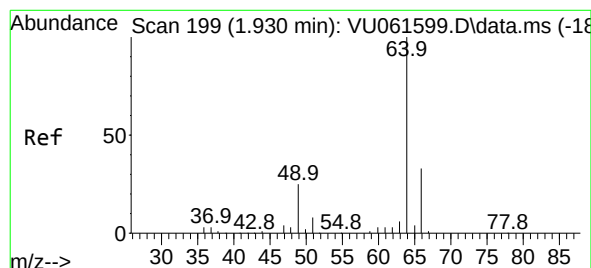
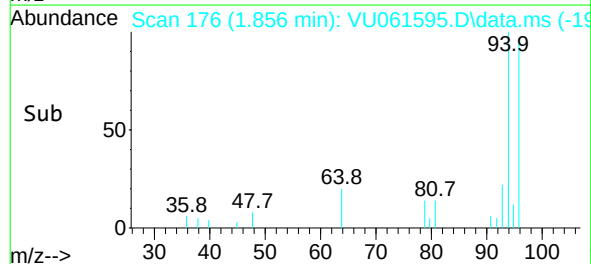
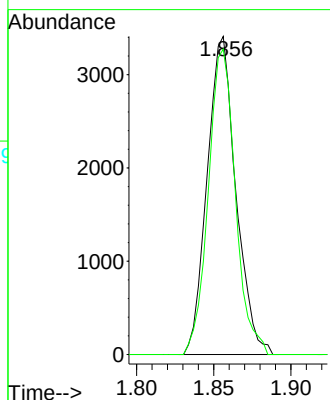
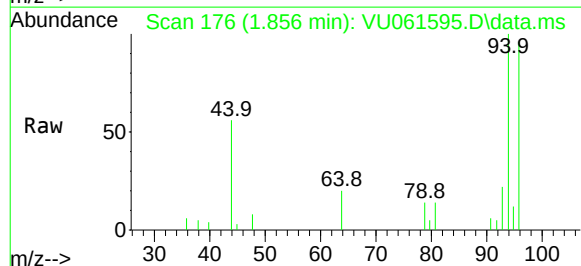
Ion Ratio Lower Upper

94 100

96 96.0 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#6

Chloroethane

Concen: 0.641 ug/l

RT: 1.933 min Scan# 200

Delta R.T. 0.003 min

Lab File: VU061595.D

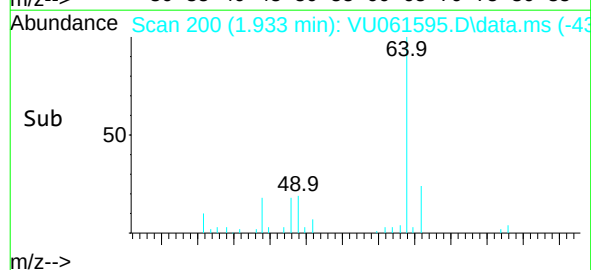
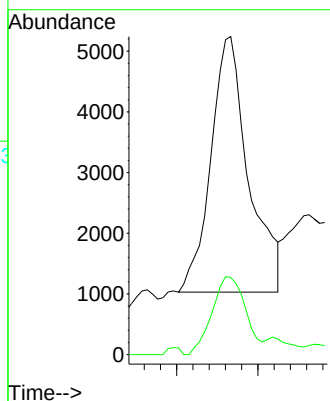
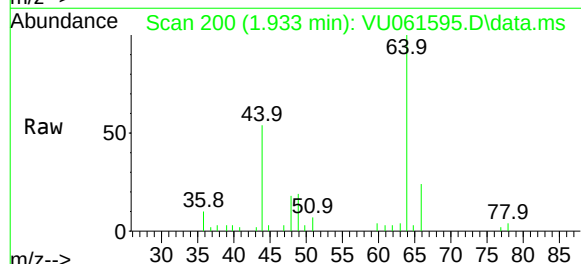
Acq: 12 Nov 2024 08:30

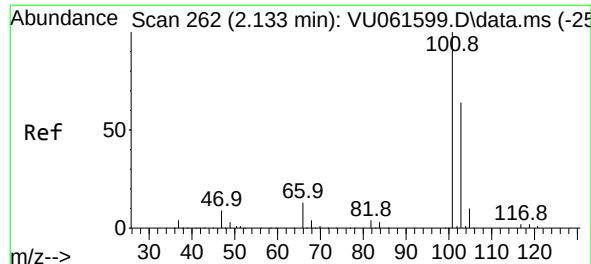
Tgt Ion: 64 Resp: 6805

Ion Ratio Lower Upper

64 100

66 27.6 26.2 39.2





#7

Trichlorofluoromethane

Concen: 0.507 ug/l

RT: 2.133 min Scan# 262

Delta R.T. 0.000 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion:101 Resp: 9515

Ion Ratio Lower Upper

101 100

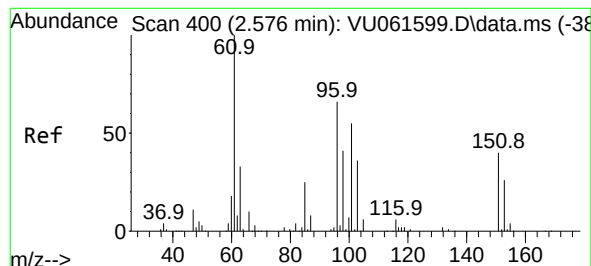
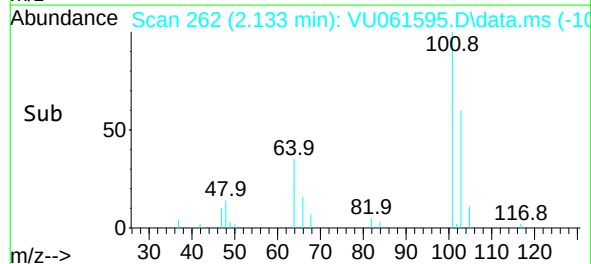
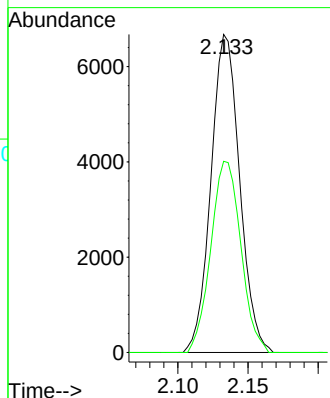
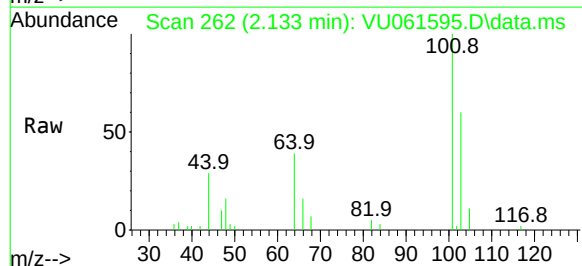
103 60.1 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.488 ug/l

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

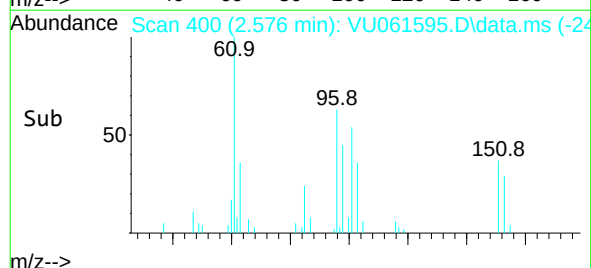
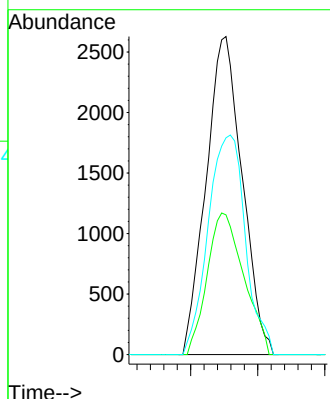
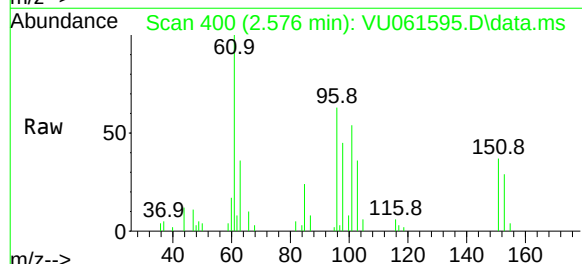
Tgt Ion:101 Resp: 4911

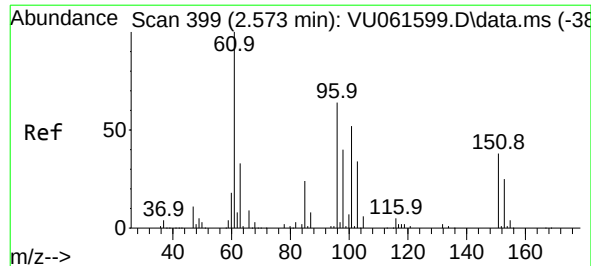
Ion Ratio Lower Upper

101 100

85 45.2 36.0 54.0

151 71.4 58.6 87.8





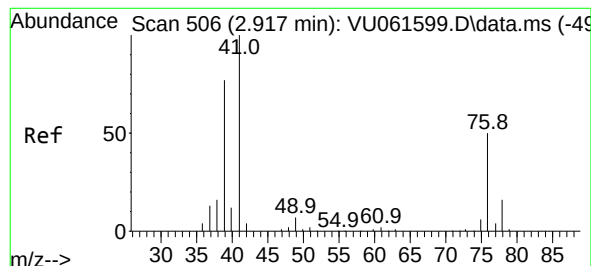
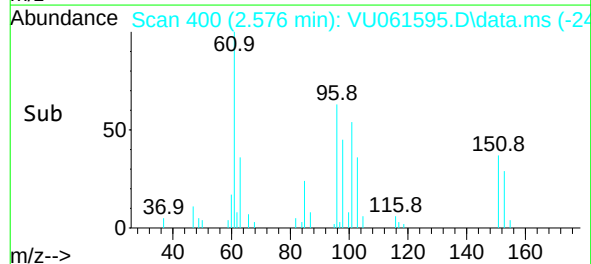
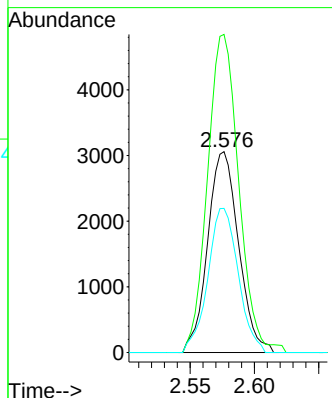
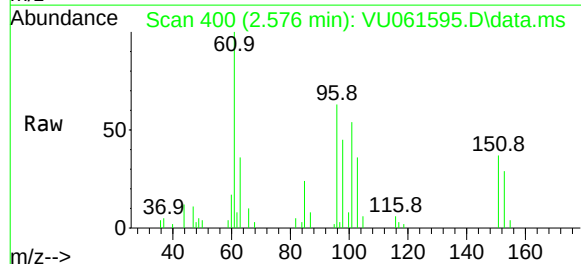
#9
1,1-Dichloroethene
Concen: 0.486 ug/l
RT: 2.576 min Scan# 400
Delta R.T. 0.003 min
Lab File: VU061595.D
Acq: 12 Nov 2024 08:30

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tgt Ion: 96 Resp: 5118
Ion Ratio Lower Upper
96 100
61 158.4 0.0 467.7
98 71.8 0.0 125.4

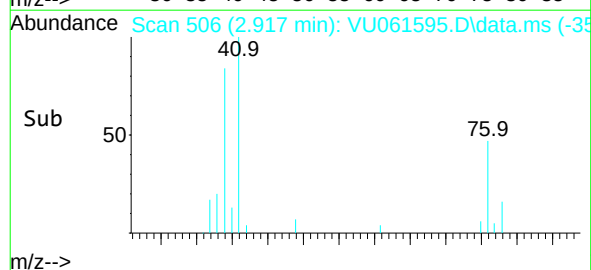
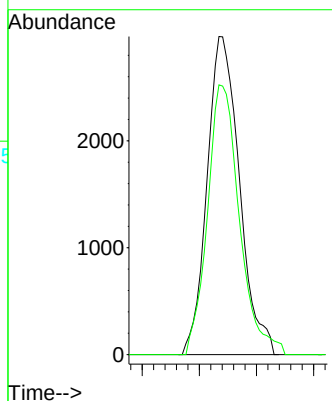
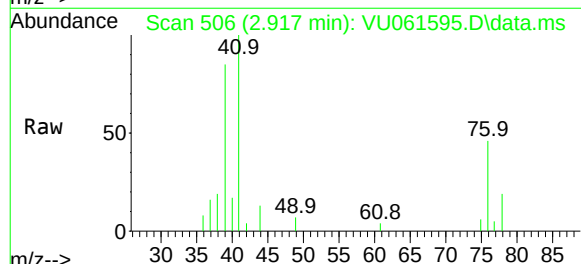
Manual Integrations
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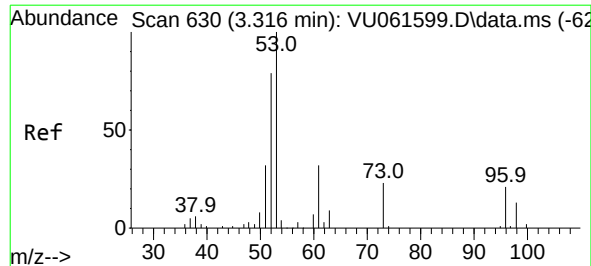
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#11
Allyl Chloride
Concen: 0.480 ug/l
RT: 2.917 min Scan# 506
Delta R.T. -0.000 min
Lab File: VU061595.D
Acq: 12 Nov 2024 08:30

Tgt Ion: 41 Resp: 5853
Ion Ratio Lower Upper
41 100
39 83.8 62.2 93.4





#12

Acrylonitrile

Concen: 0.862 ug/l m

RT: 3.348 min Scan# 64

Delta R.T. 0.032 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

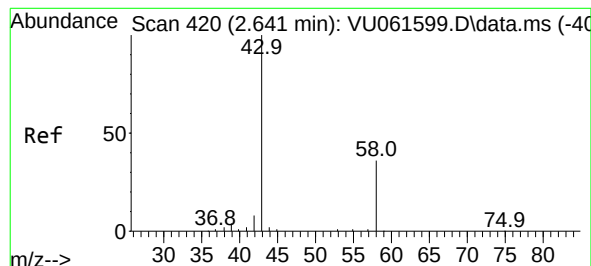
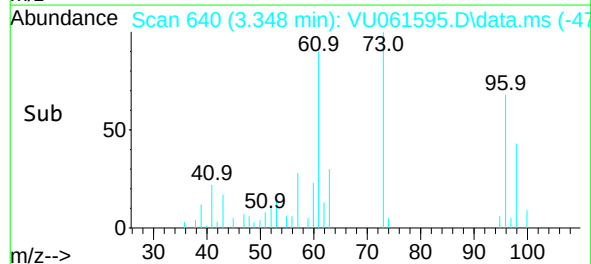
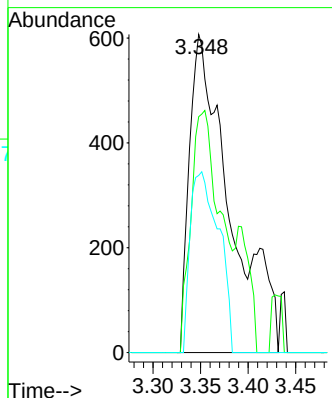
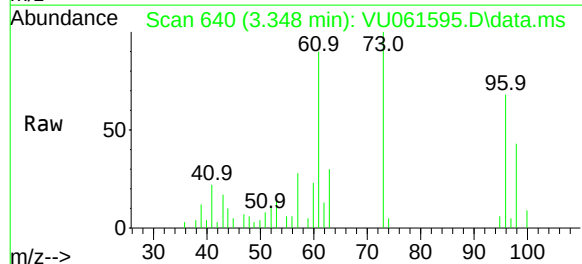
ClientSampleId :

VSTDIC0.5

Tgt	Ion: 53	Resp: 1795
Ion	Ratio	Lower Upper
53	100	
52	54.9	62.1 93.1
51	40.1	30.9 46.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#13

Acetone

Concen: 3.259 ug/l

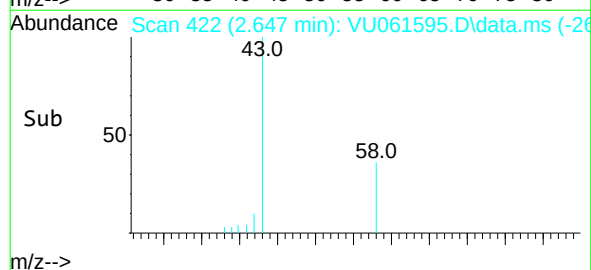
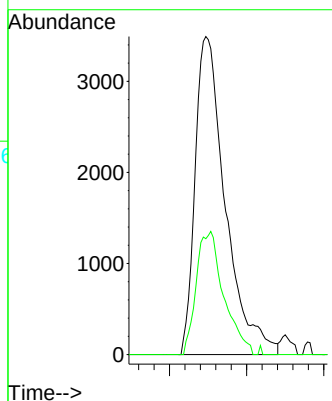
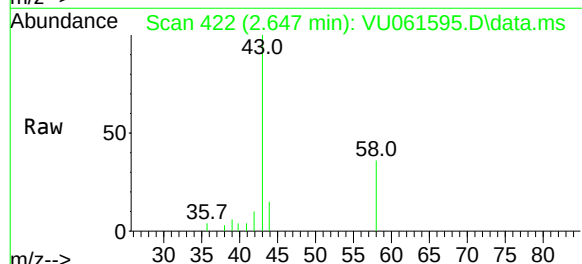
RT: 2.647 min Scan# 422

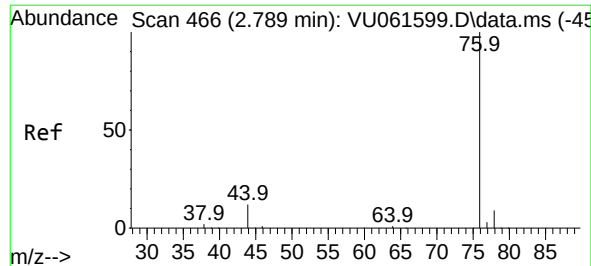
Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt	Ion: 43	Resp: 9478
Ion	Ratio	Lower Upper
43	100	
58	36.4	28.5 42.7





#14

Carbon Disulfide

Concen: 0.502 ug/l

RT: 2.789 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 76 Resp: 17087

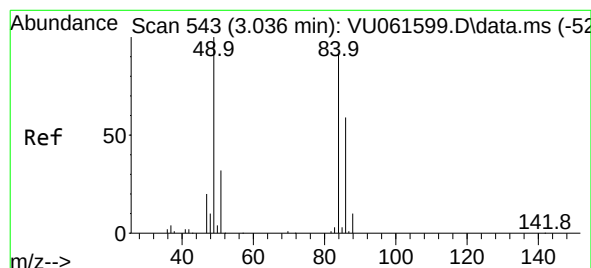
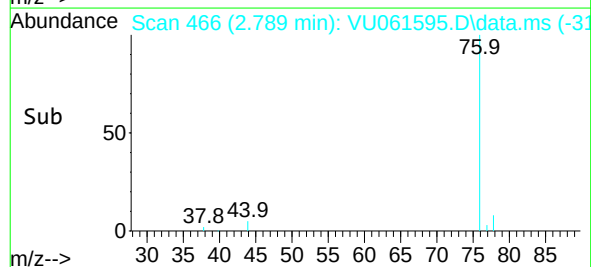
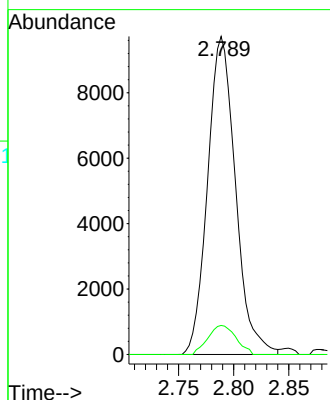
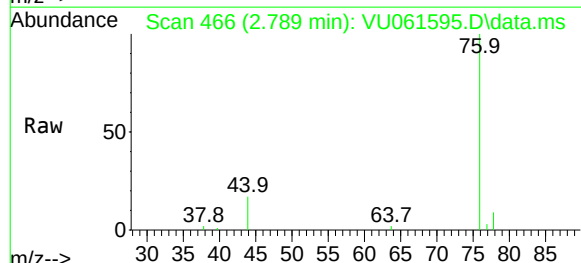
Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#15

Methylene Chloride

Concen: 0.496 ug/l

RT: 3.043 min Scan# 545

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion: 84 Resp: 6311

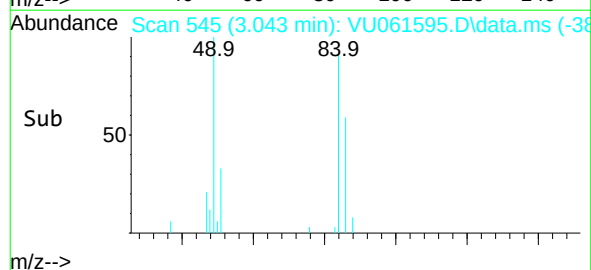
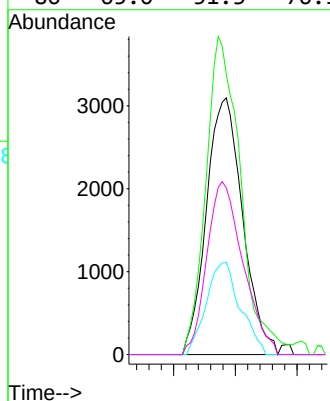
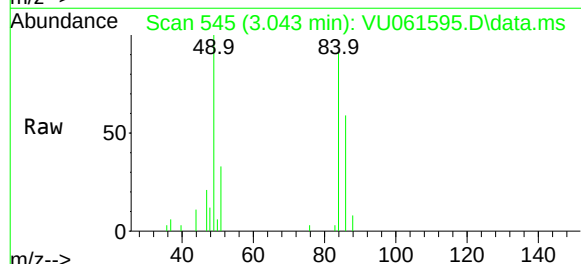
Ion Ratio Lower Upper

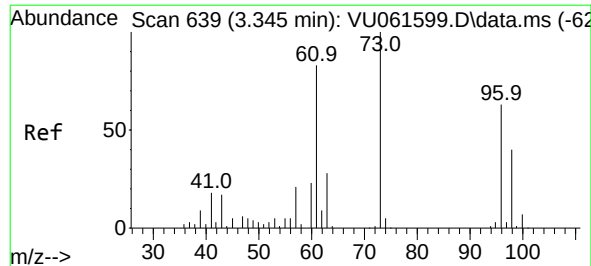
84 100

49 109.5 87.4 131.0

51 36.0 0.0 69.6

86 65.0 51.3 76.9





#16

trans-1,2-Dichloroethene

Concen: 0.476 ug/l

RT: 3.351 min Scan# 641

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 96 Resp: 5825

Ion Ratio Lower Upper

96 100

61 134.8 105.0 157.4

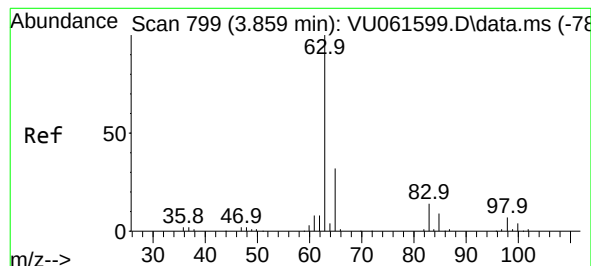
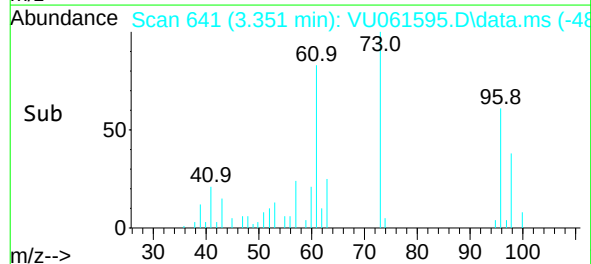
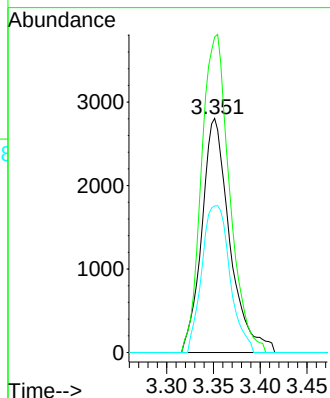
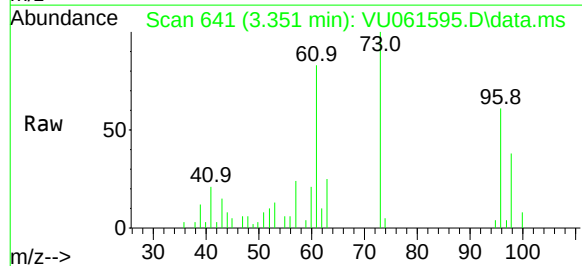
98 62.6 50.4 75.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#17

1,1-Dichloroethane

Concen: 0.478 ug/l

RT: 3.862 min Scan# 800

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

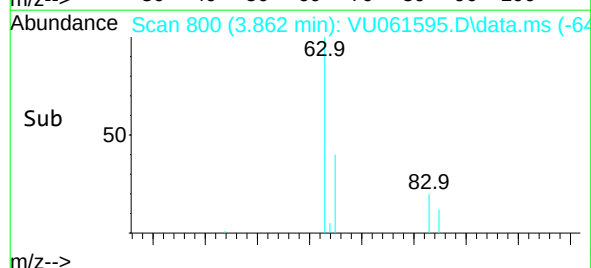
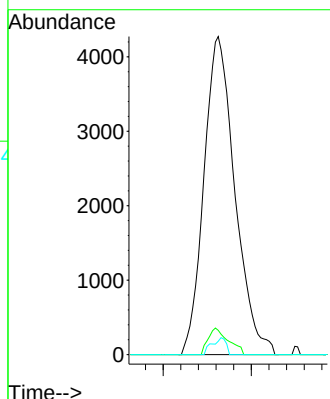
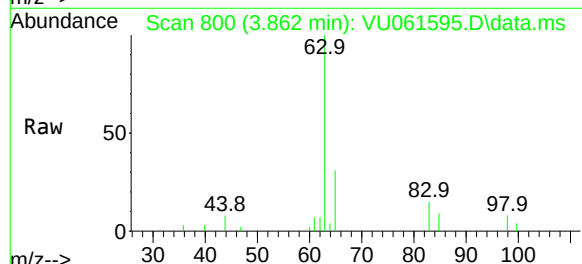
Tgt Ion: 63 Resp: 10437

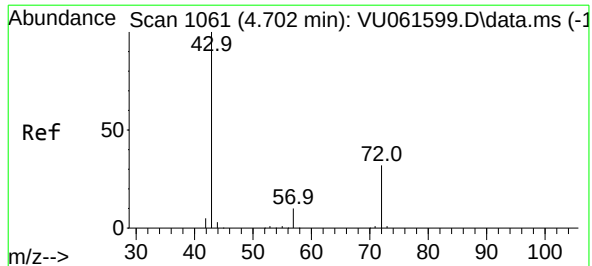
Ion Ratio Lower Upper

63 100

98 7.6 3.4 10.2

100 4.2 2.2 6.6





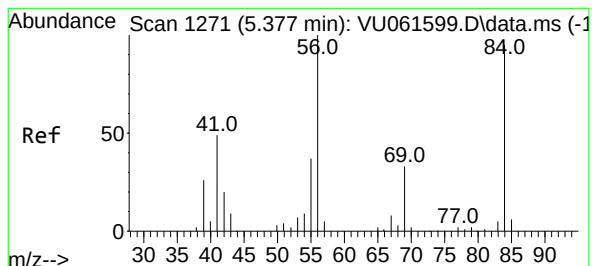
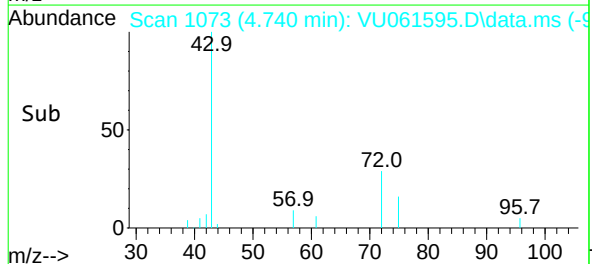
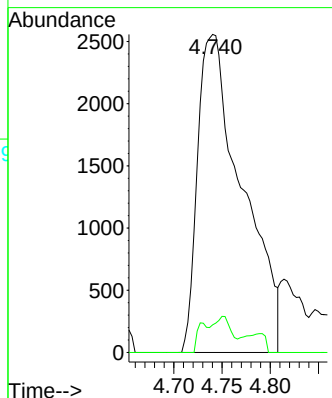
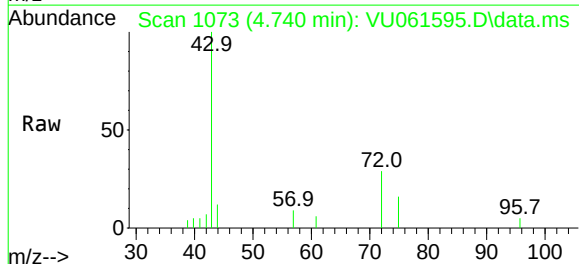
#18
2-Butanone
Concen: 2.437 ug/l
RT: 4.740 min Scan# 1061
Delta R.T. 0.039 min
Lab File: VU061595.D
Acq: 12 Nov 2024 08:30

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 8220
Ion Ratio Lower Upper
43 100
57 8.7 0.0 20.0

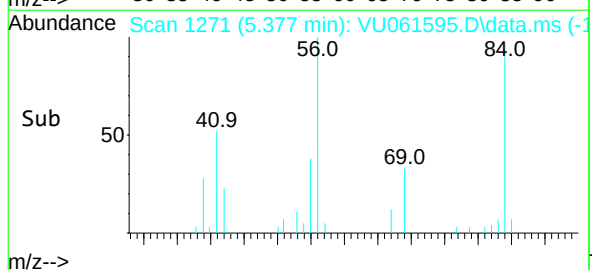
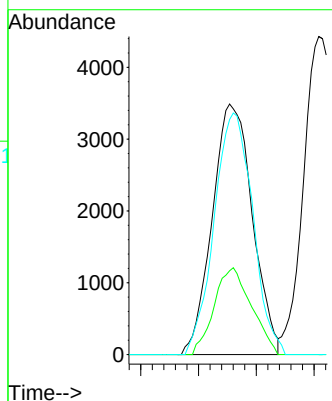
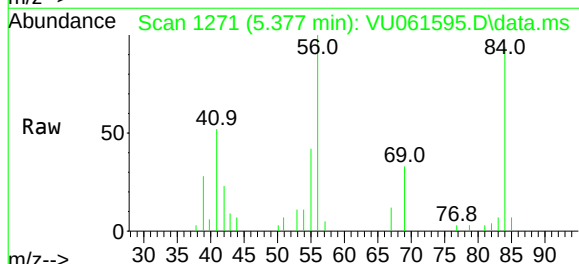
Manual Integrations
APPROVED

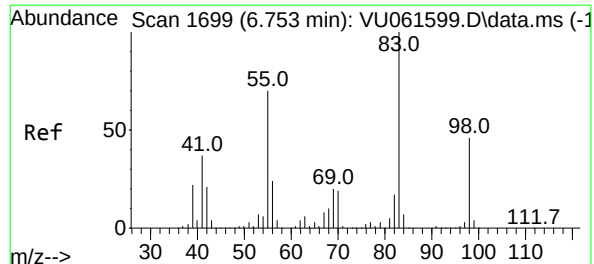
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#19
Cyclohexane
Concen: 0.476 ug/l m
RT: 5.377 min Scan# 1271
Delta R.T. 0.000 min
Lab File: VU061595.D
Acq: 12 Nov 2024 08:30

Tgt Ion: 56 Resp: 8433
Ion Ratio Lower Upper
56 100
69 32.1 26.3 39.5
84 92.7 73.4 110.2





#20

Methylcyclohexane

Concen: 0.460 ug/l

RT: 6.756 min Scan# 17

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 9131

Ion Ratio Lower Upper

83 100

55 71.9 55.5 83.3

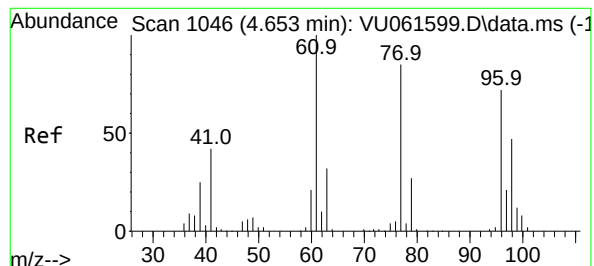
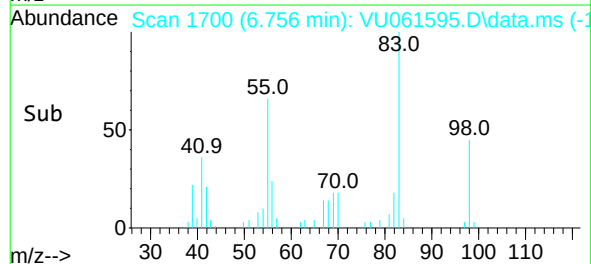
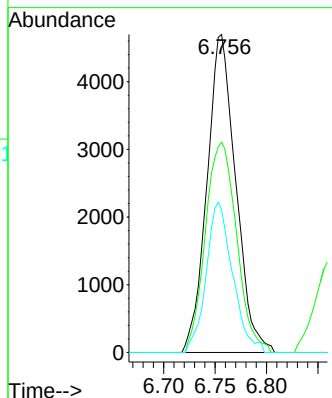
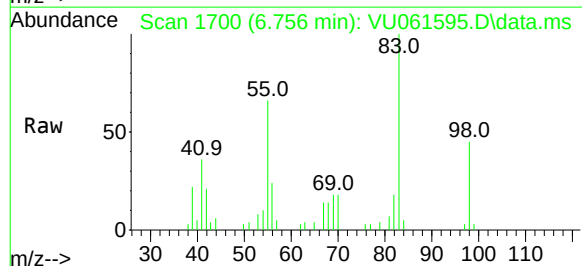
98 43.4 36.8 55.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#21

2,2-Dichloropropane

Concen: 0.510 ug/l

RT: 4.650 min Scan# 1045

Delta R.T. -0.003 min

Lab File: VU061595.D

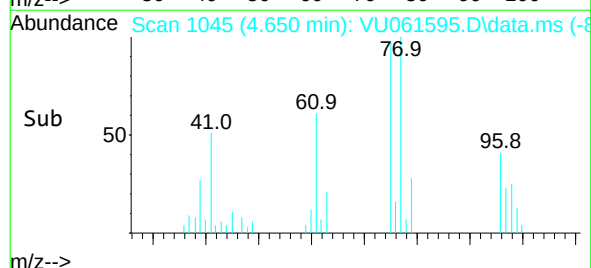
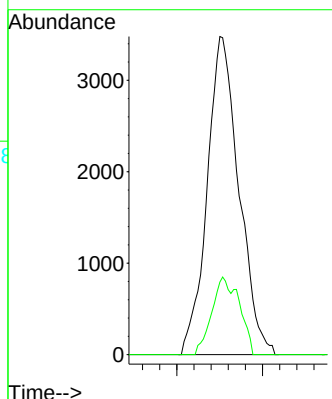
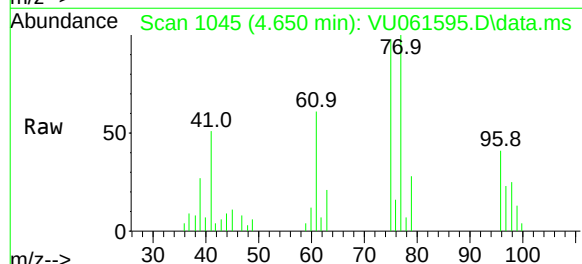
Acq: 12 Nov 2024 08:30

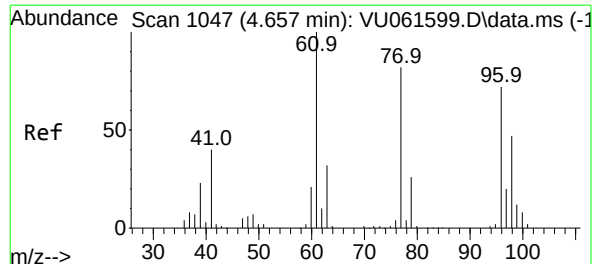
Tgt Ion: 77 Resp: 8948

Ion Ratio Lower Upper

77 100

97 21.2 18.6 28.0





#22

cis-1,2-Dichloroethene

Concen: 0.483 ug/l

RT: 4.663 min Scan# 1049

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 96 Resp: 6443

Ion Ratio Lower Upper

96 100

61 142.6 0.0 349.5

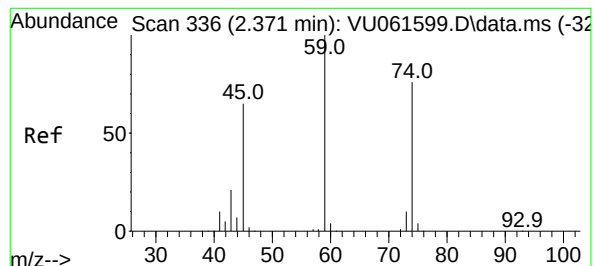
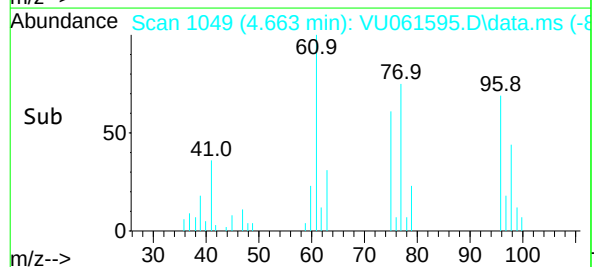
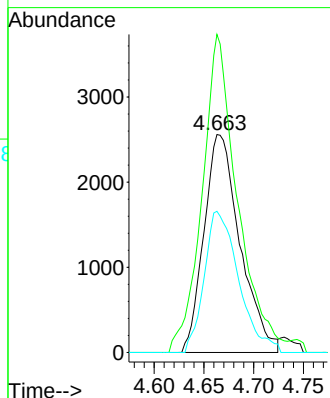
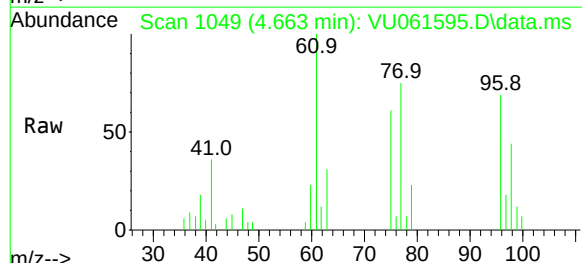
98 61.9 32.5 97.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#23

Diethyl Ether

Concen: 0.481 ug/l

RT: 2.377 min Scan# 338

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

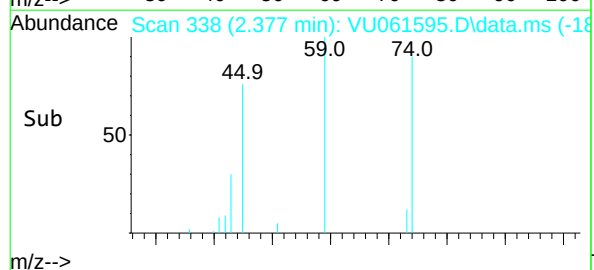
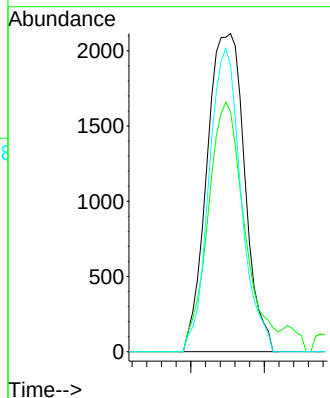
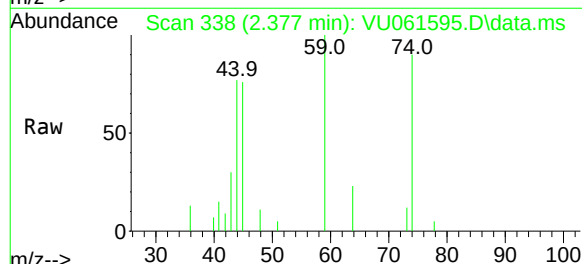
Tgt Ion: 59 Resp: 3776

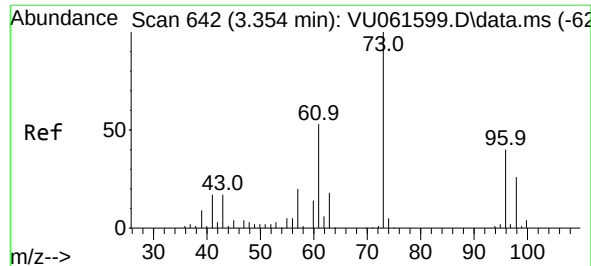
Ion Ratio Lower Upper

59 100

45 75.6 53.8 80.6

74 81.2 62.1 93.1





#25

Methyl tert-Butyl Ether

Concen: 0.459 ug/l

RT: 3.358 min Scan# 64

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 73 Resp: 11842

Ion Ratio Lower Upper

73 100

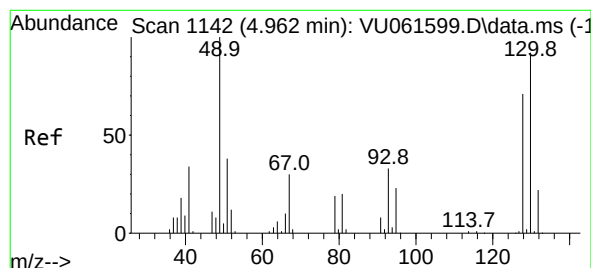
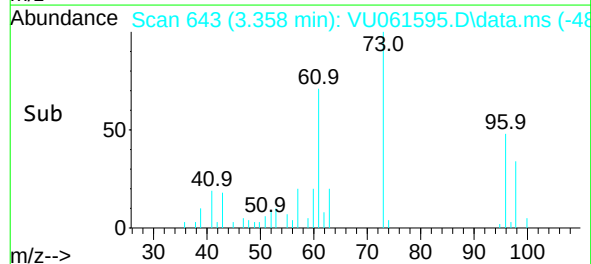
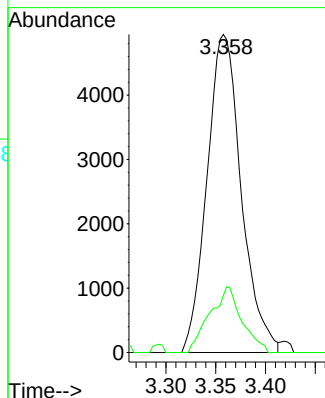
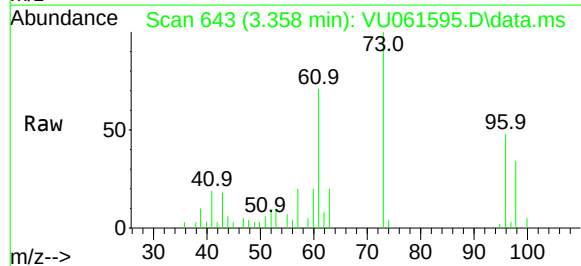
43 19.3 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#26

Bromochloromethane

Concen: 0.470 ug/l

RT: 4.972 min Scan# 1145

Delta R.T. 0.010 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

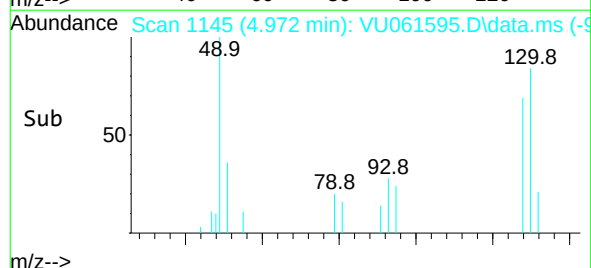
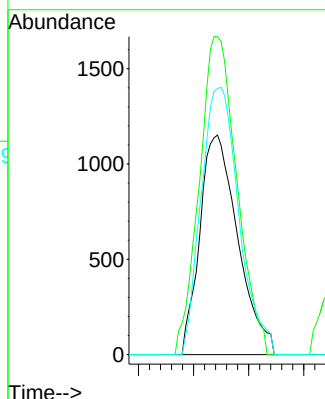
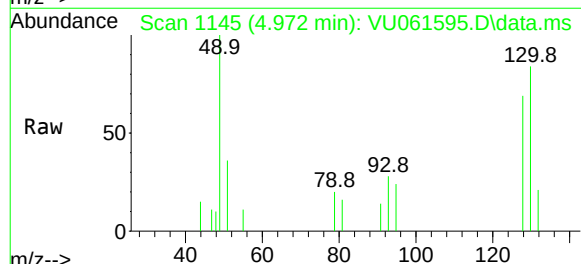
Tgt Ion:128 Resp: 2763

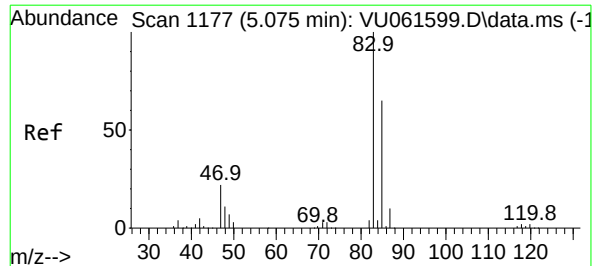
Ion Ratio Lower Upper

128 100

49 143.1 0.0 288.8

130 121.3 103.6 155.4





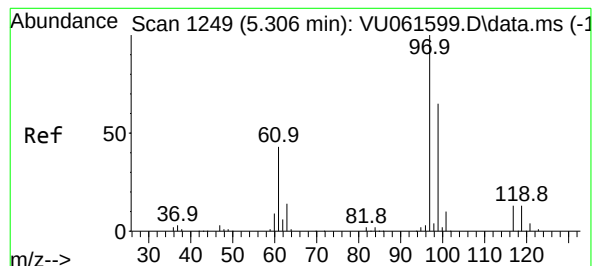
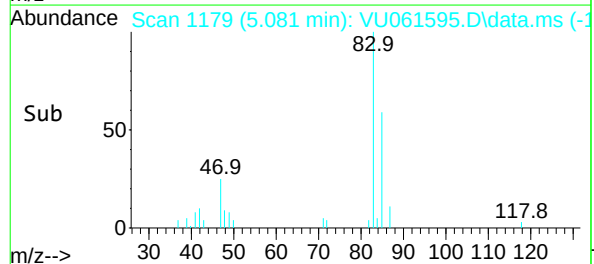
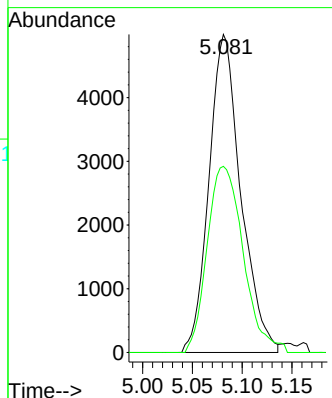
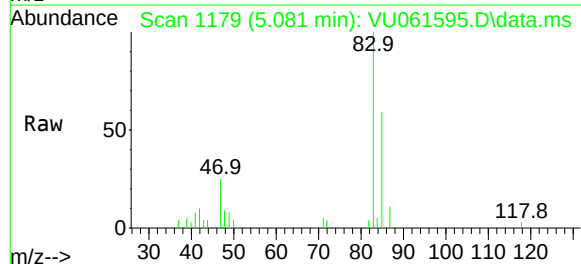
#27
Chloroform
Concen: 0.481 ug/l
RT: 5.081 min Scan# 1177
Delta R.T. 0.006 min
Lab File: VU061595.D
Acq: 12 Nov 2024 08:30

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 11123
Ion Ratio Lower Upper
83 100
85 58.5 0.0 130.6

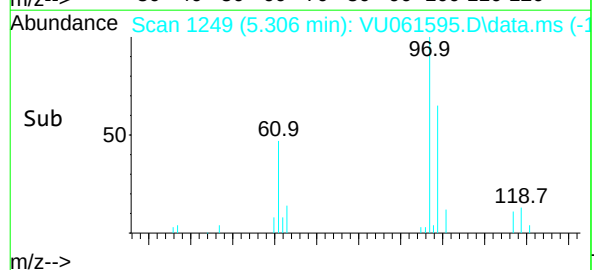
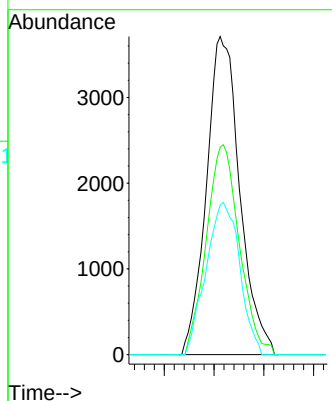
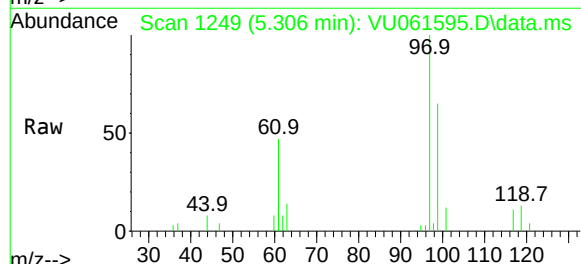
Manual Integrations
APPROVED

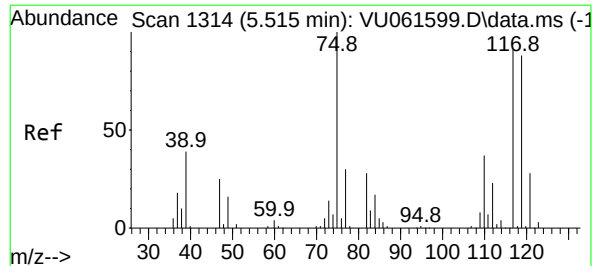
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#28
1,1,1-Trichloroethane
Concen: 0.453 ug/l
RT: 5.306 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VU061595.D
Acq: 12 Nov 2024 08:30

Tgt Ion: 97 Resp: 8654
Ion Ratio Lower Upper
97 100
99 65.1 32.1 96.5
61 48.2 21.7 65.1





#29

1,1-Dichloropropene

Concen: 0.477 ug/l

RT: 5.525 min Scan# 1317

Delta R.T. 0.010 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 75 Resp: 8203

Ion Ratio Lower Upper

75 100

110 34.0 17.9 53.8

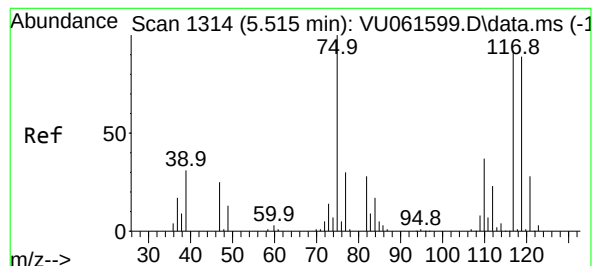
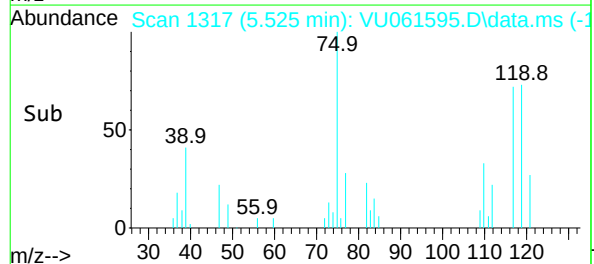
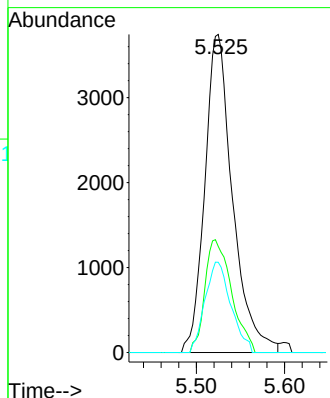
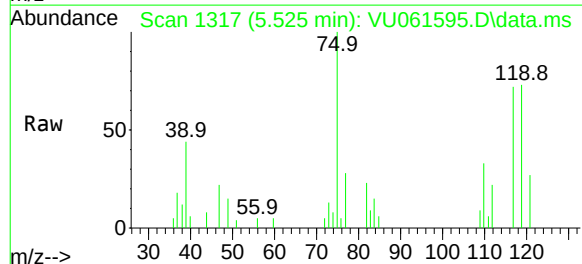
77 26.4 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 0.452 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

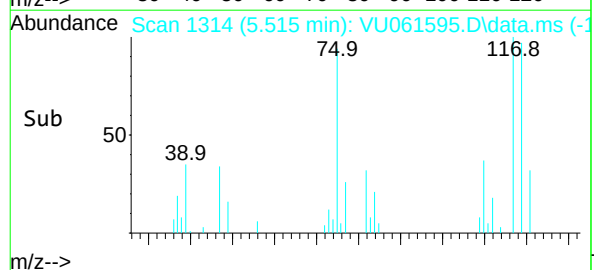
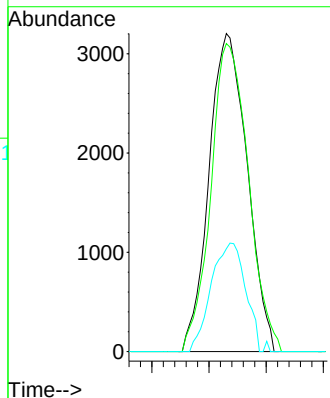
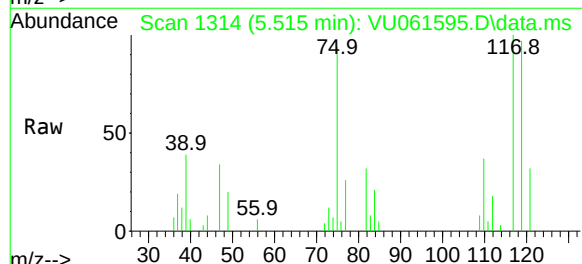
Tgt Ion:117 Resp: 7412

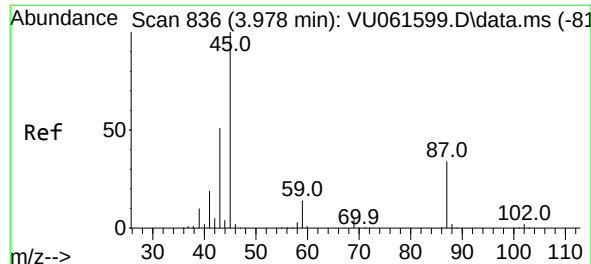
Ion Ratio Lower Upper

117 100

119 96.8 77.4 116.0

121 32.3 24.5 36.7





#31

Isopropyl Ether

Concen: 0.465 ug/l

RT: 3.985 min Scan# 83

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 45 Resp: 13516

Ion Ratio Lower Upper

45 100

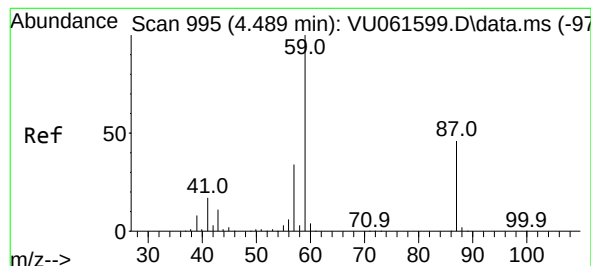
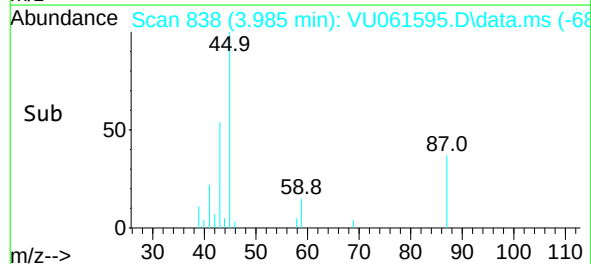
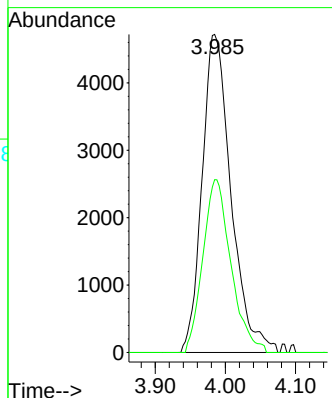
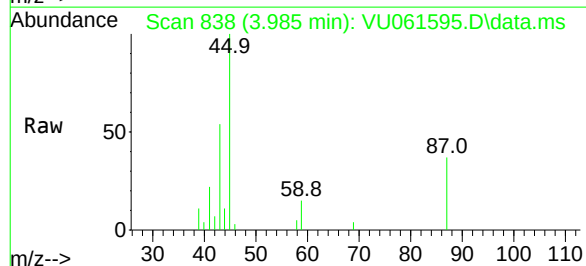
43 52.7 25.8 77.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#32

Ethyl-t-butyl ether

Concen: 0.464 ug/l

RT: 4.489 min Scan# 995

Delta R.T. -0.000 min

Lab File: VU061595.D

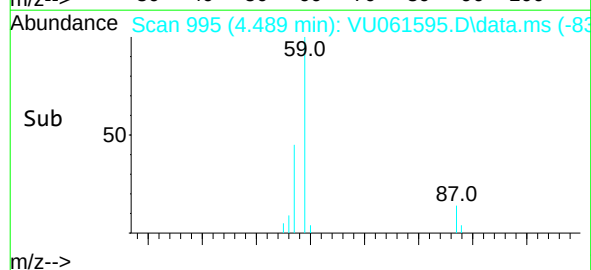
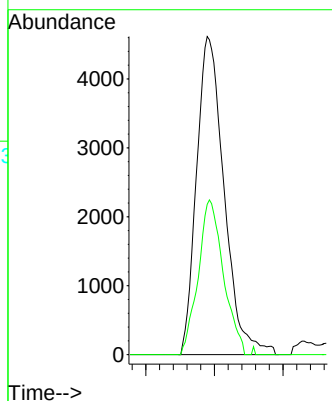
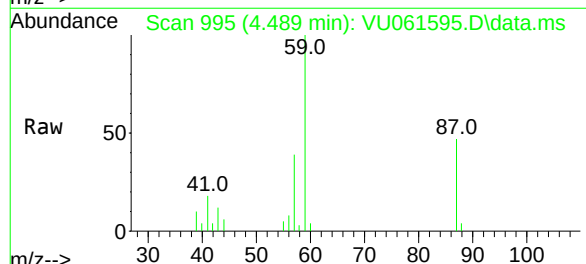
Acq: 12 Nov 2024 08:30

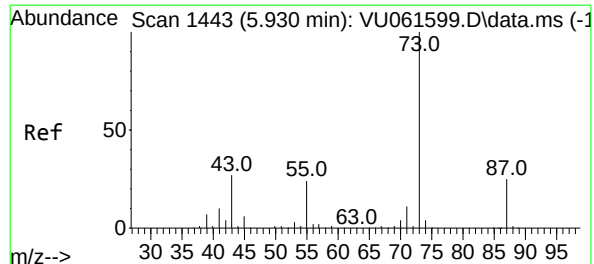
Tgt Ion: 59 Resp: 12887

Ion Ratio Lower Upper

59 100

87 44.4 35.5 53.3





#33

Tert-Amyl methyl ether

Concen: 0.442 ug/l

RT: 5.936 min Scan# 14

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 73 Resp: 11082

Ion Ratio Lower Upper

73 100

87 24.2 19.8 29.6

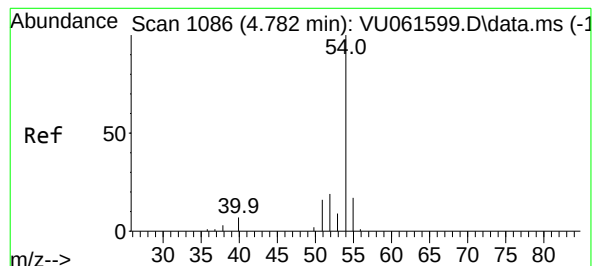
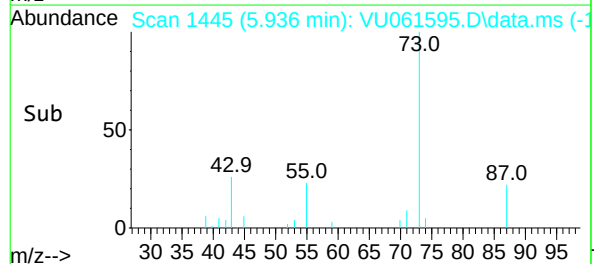
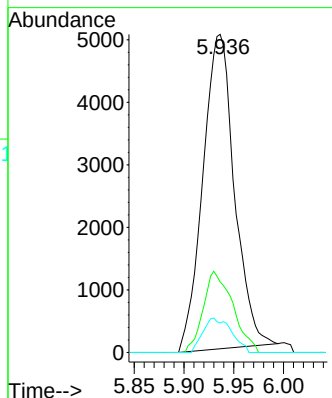
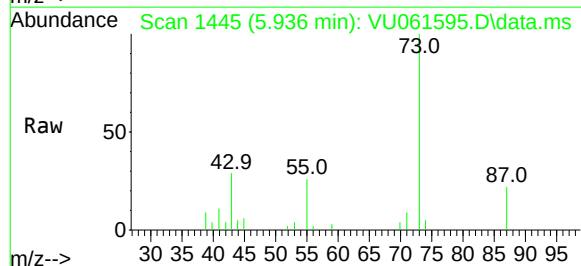
71 9.9 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#34

Propionitrile

Concen: 2.155 ug/l m

RT: 4.827 min Scan# 1100

Delta R.T. 0.045 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion: 54 Resp: 1698

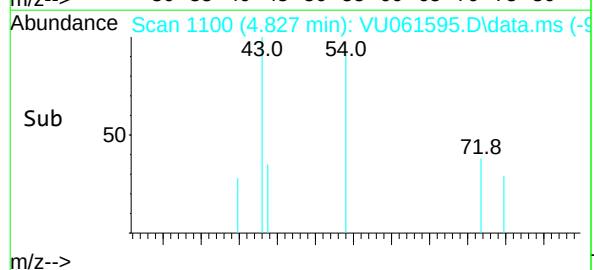
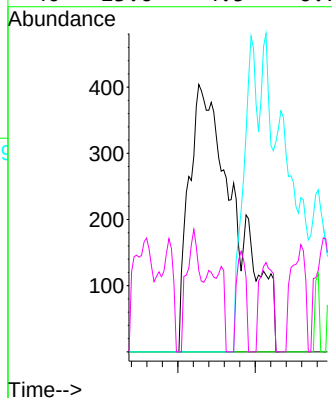
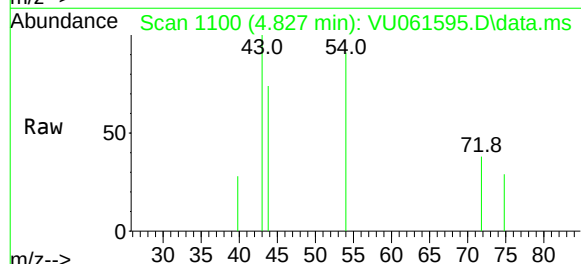
Ion Ratio Lower Upper

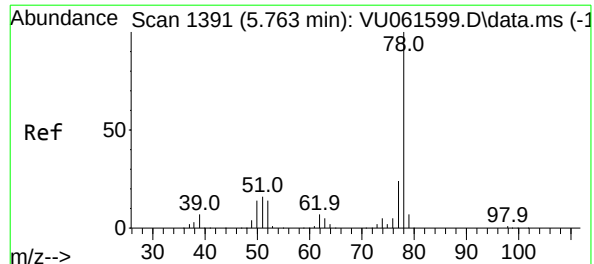
54 100

52 0.0 15.8 23.8#

55 0.0 10.7 16.1#

40 13.6 4.5 6.7#





#35

Benzene

Concen: 0.454 ug/l

RT: 5.772 min Scan# 13

Delta R.T. 0.010 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 78 Resp: 23267

Ion Ratio Lower Upper

78 100

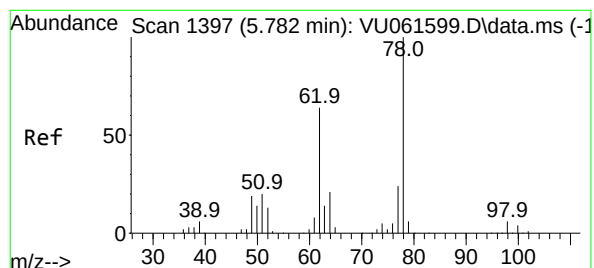
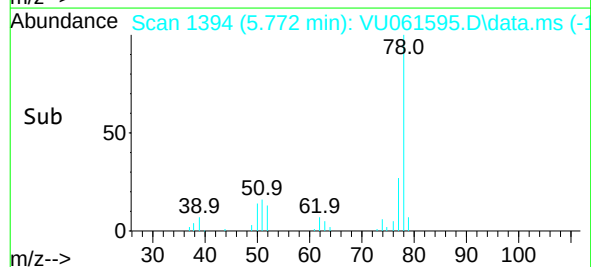
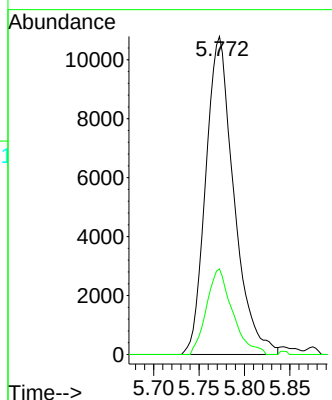
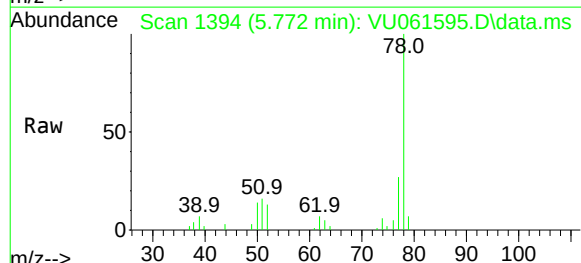
77 26.9 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#36

1,2-Dichloroethane

Concen: 0.483 ug/l

RT: 5.792 min Scan# 1400

Delta R.T. 0.010 min

Lab File: VU061595.D

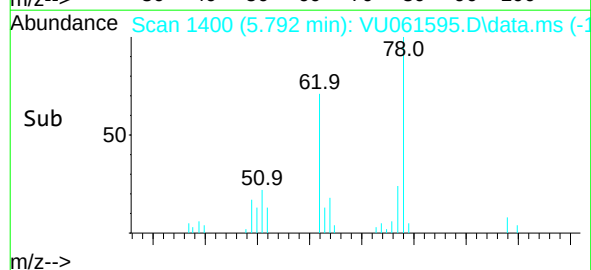
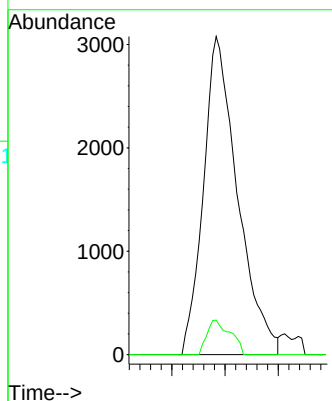
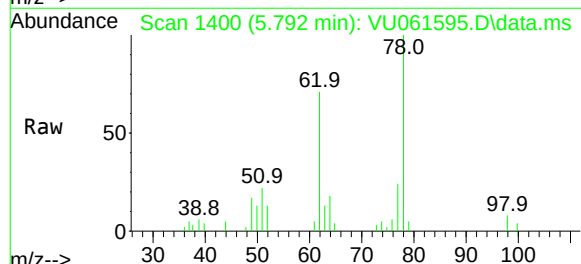
Acq: 12 Nov 2024 08:30

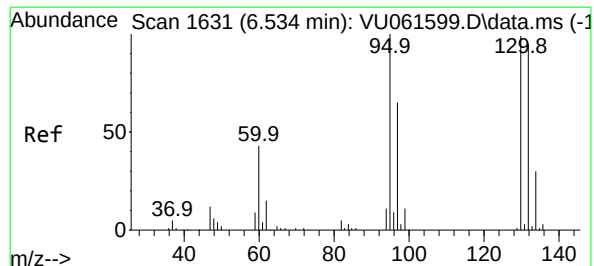
Tgt Ion: 62 Resp: 6867

Ion Ratio Lower Upper

62 100

98 7.4 7.4 11.0





#37

Trichloroethene

Concen: 0.452 ug/l

RT: 6.541 min Scan# 16

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion:130 Resp: 6131

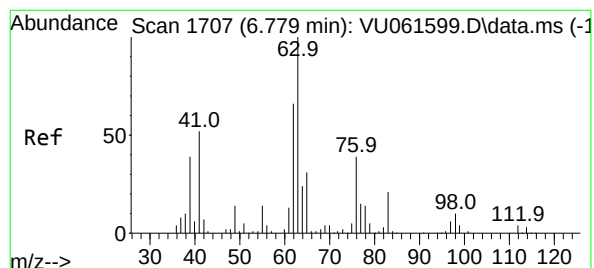
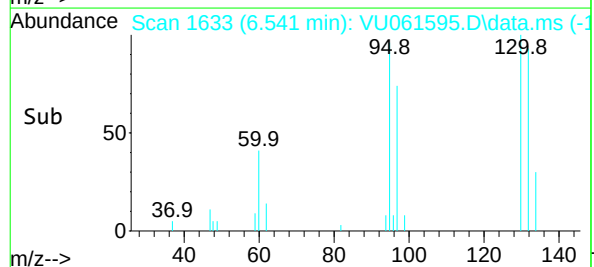
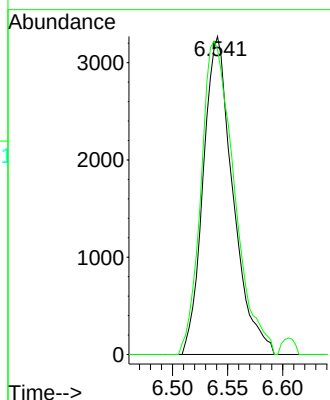
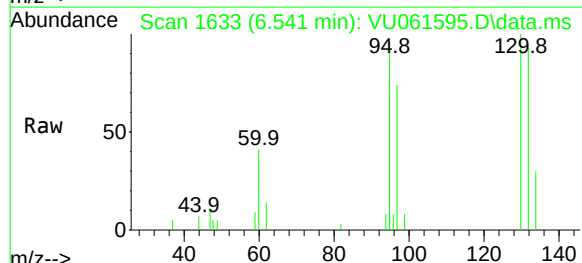
Ion Ratio Lower Upper

130 100

95 96.0 80.6 120.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#38

1,2-Dichloropropane

Concen: 0.487 ug/l

RT: 6.785 min Scan# 1709

Delta R.T. 0.006 min

Lab File: VU061595.D

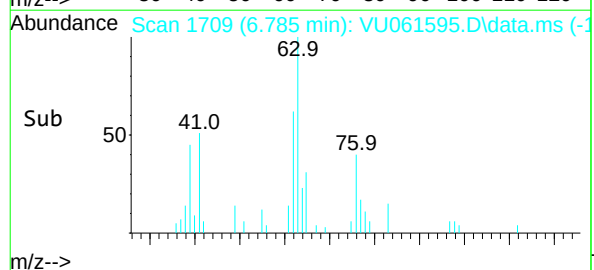
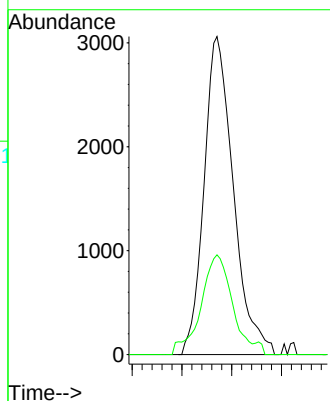
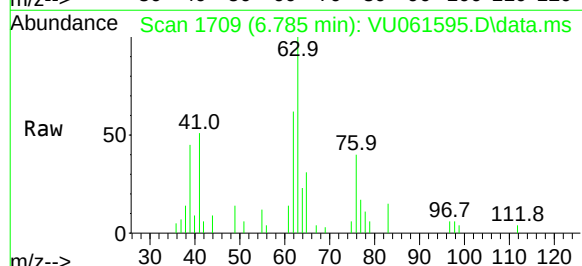
Acq: 12 Nov 2024 08:30

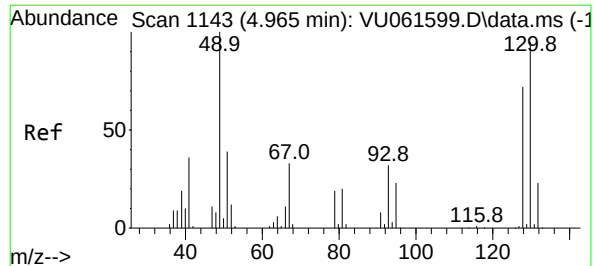
Tgt Ion: 63 Resp: 6261

Ion Ratio Lower Upper

63 100

65 31.4 25.3 37.9





#39

Methacrylonitrile

Concen: 0.370 ug/l m

RT: 5.007 min Scan# 11

Delta R.T. 0.042 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 41 Resp: 1043

Ion Ratio Lower Upper

41 100

67 34.9 77.6 116.4#

39 33.8 43.9 65.9#

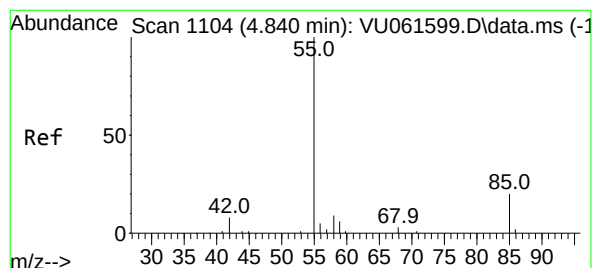
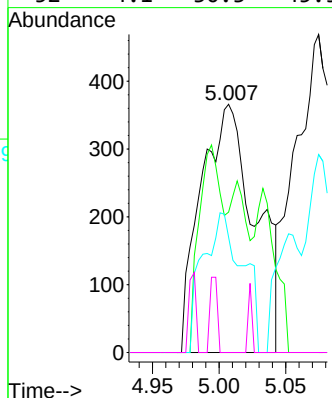
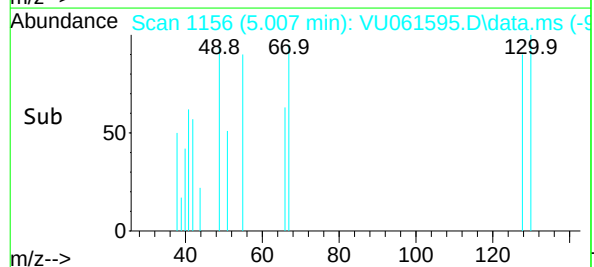
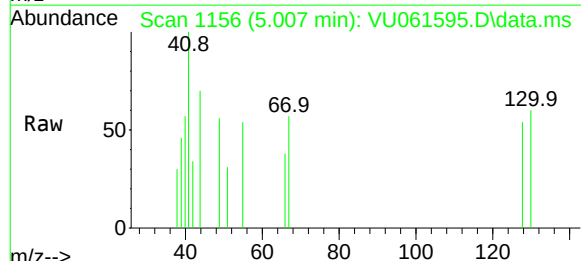
52 4.1 30.3 45.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#40

Methyl acrylate

Concen: 0.445 ug/l m

RT: 4.914 min Scan# 1127

Delta R.T. 0.074 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion: 55 Resp: 2273

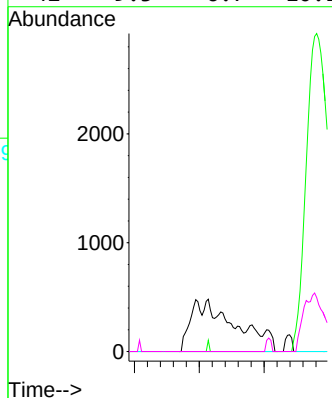
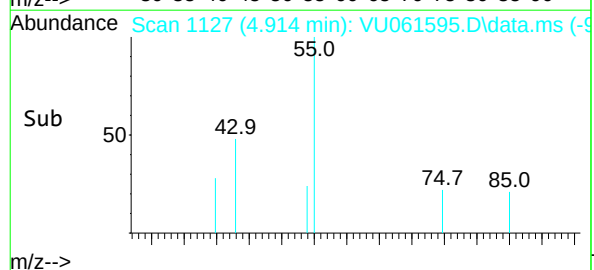
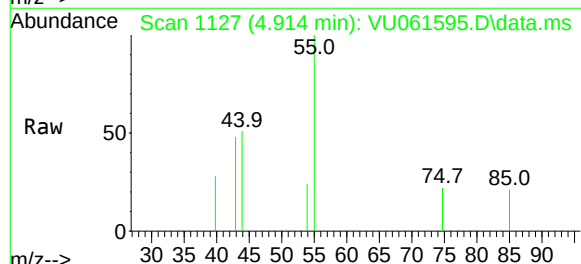
Ion Ratio Lower Upper

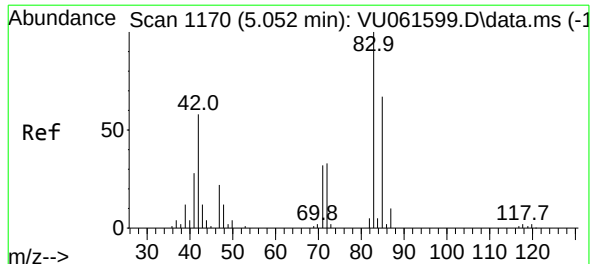
55 100

85 0.0 16.5 24.7#

58 0.0 7.6 11.4#

42 9.3 6.7 10.1





#41

Tetrahydrofuran

Concen: 0.931 ug/l m

RT: 5.078 min Scan# 1170

Delta R.T. 0.026 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

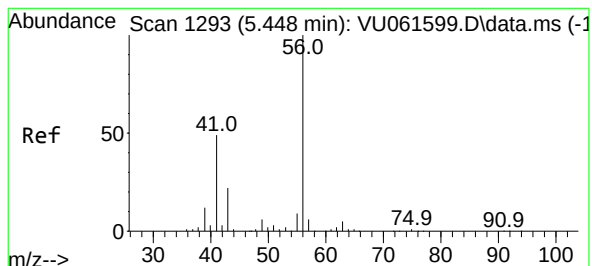
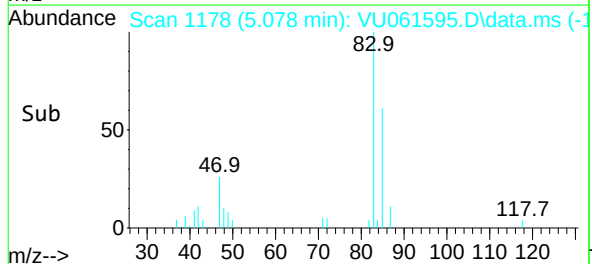
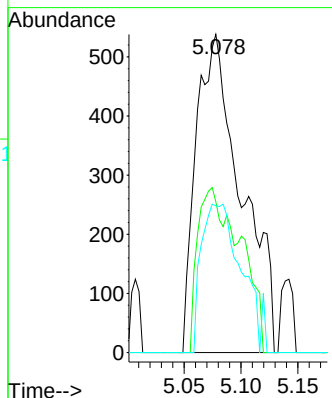
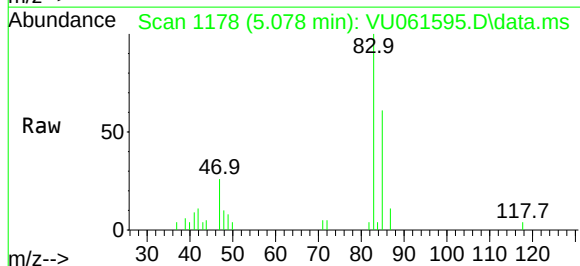
ClientSampleId :

VSTDIC0.5

Tgt Ion:	42	Resp:	1484
Ion	Ratio	Lower	Upper
42	100		
72	37.7	49.1	73.7
71	41.6	40.2	60.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#42

1-Chlorobutane

Concen: 0.436 ug/l

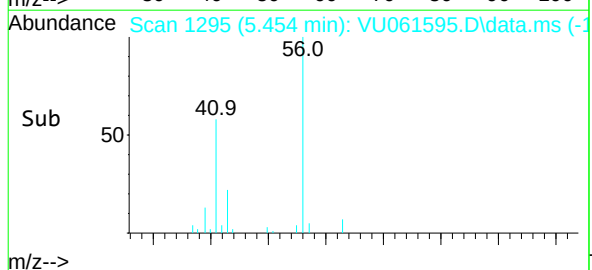
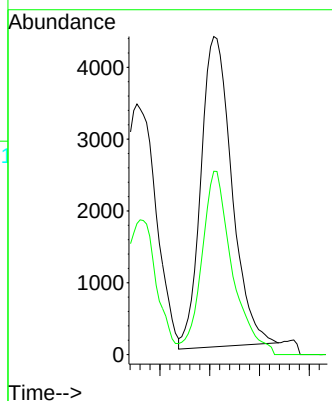
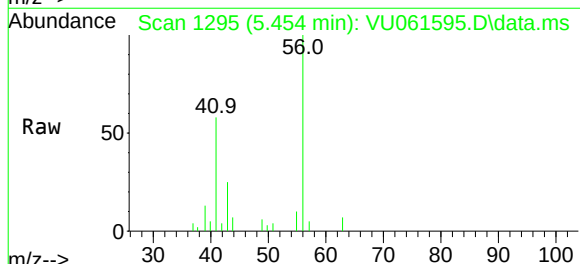
RT: 5.454 min Scan# 1295

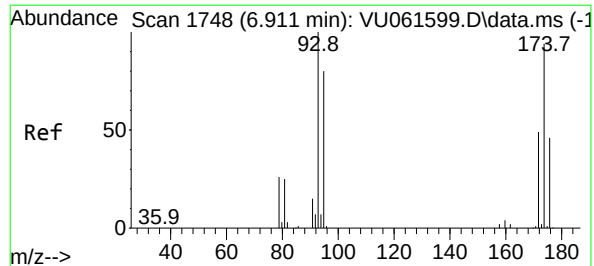
Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion:	56	Resp:	9343
Ion	Ratio	Lower	Upper
56	100		
41	57.9	23.4	70.2





#43

Dibromomethane

Concen: 0.470 ug/l

RT: 6.917 min Scan# 1748

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 93 Resp: 3200

Ion Ratio Lower Upper

93 100

95 80.7 65.2 97.8

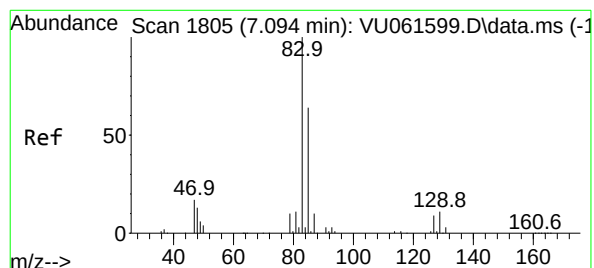
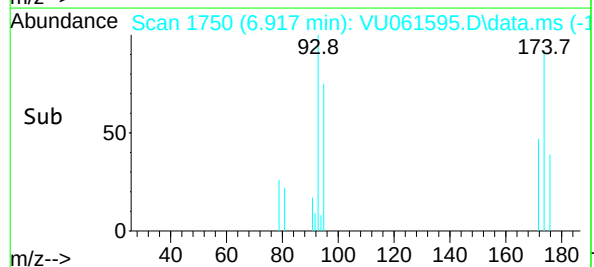
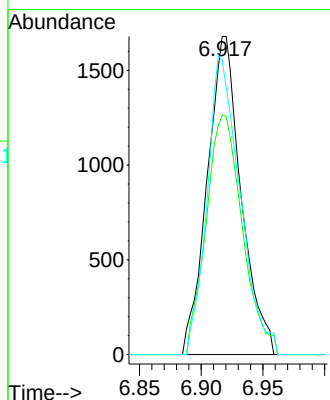
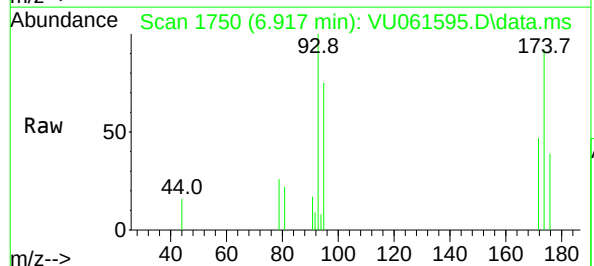
174 91.4 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

Concen: 0.459 ug/l

RT: 7.100 min Scan# 1807

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

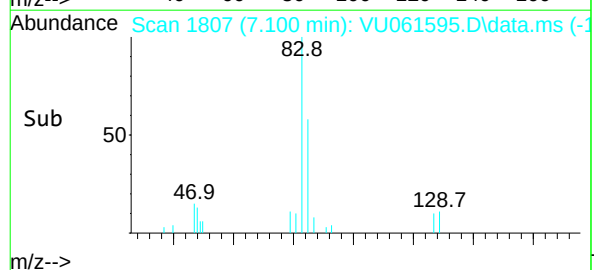
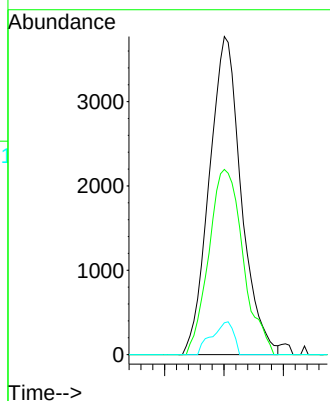
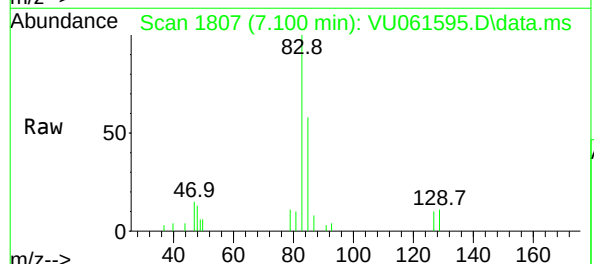
Tgt Ion: 83 Resp: 7063

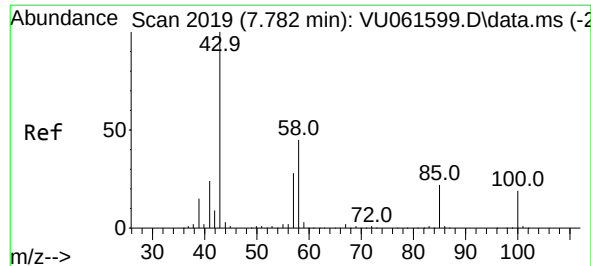
Ion Ratio Lower Upper

83 100

85 58.2 51.4 77.0

127 10.0 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 2.434 ug/l

RT: 7.795 min Scan# 2019

Delta R.T. 0.013 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

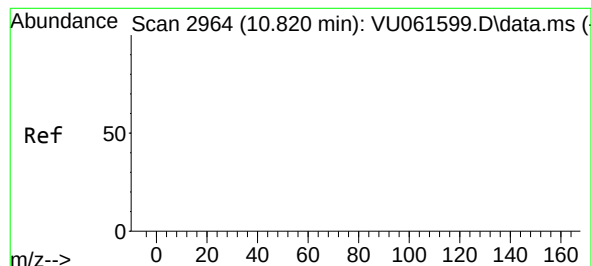
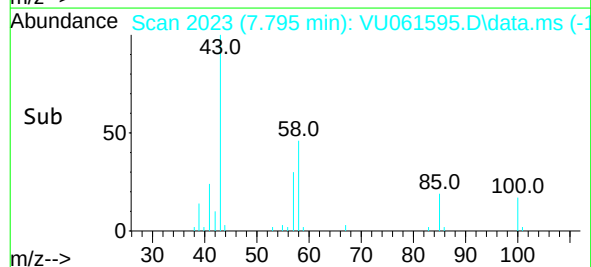
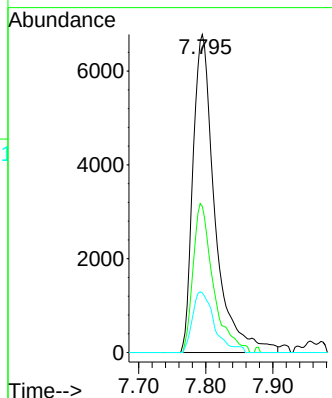
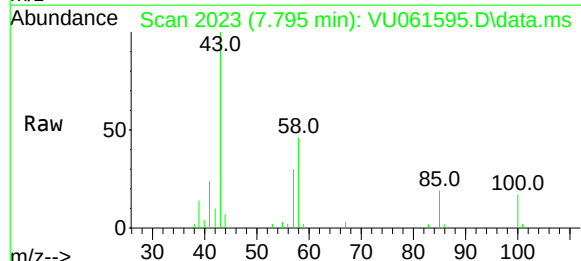
ClientSampleId :

VSTDIC0.5

Tgt	Ion: 43	Resp:	15419
Ion	Ratio	Lower	Upper
43	100		
58	43.1	22.3	66.8
85	19.0	17.2	25.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 0.894 ug/l m

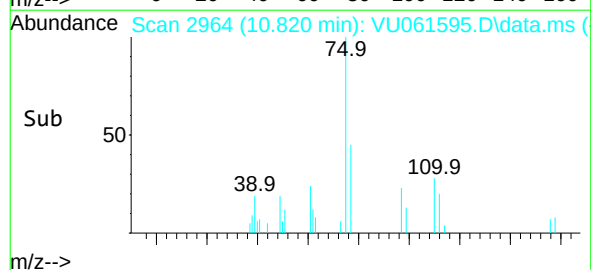
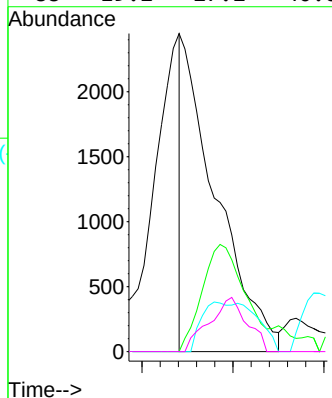
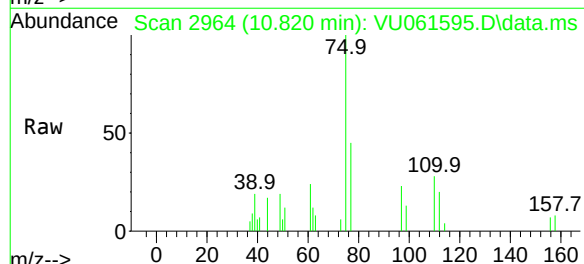
RT: 10.820 min Scan# 2964

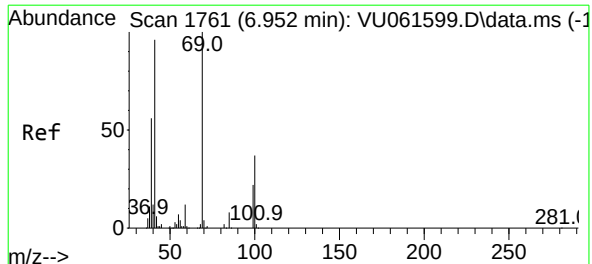
Delta R.T. 0.000 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt	Ion: 75	Resp:	3130
Ion	Ratio	Lower	Upper
75	100		
53	49.7	50.7	76.1#
89	25.5	35.2	52.8#
88	19.2	27.2	40.8#





#47

Methyl methacrylate

Concen: 0.799 ug/l

RT: 6.972 min Scan# 17

Delta R.T. 0.019 min

Lab File: VU061595.D

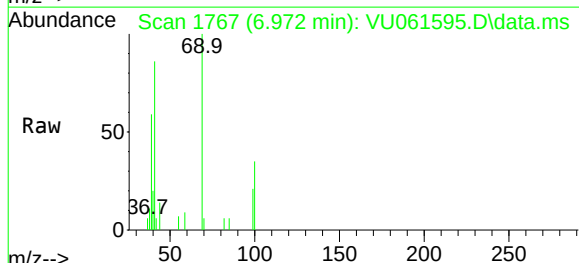
Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5



Tgt Ion: 69 Resp: 4318

Ion Ratio Lower Upper

69 100

41 90.6 0.0 193.6

39 63.6 46.6 70.0

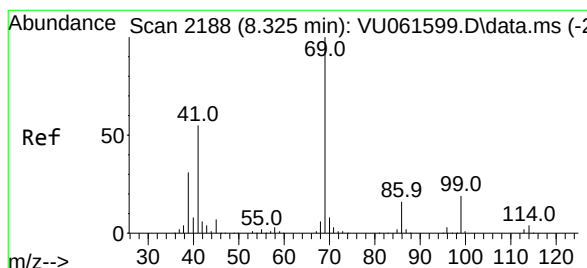
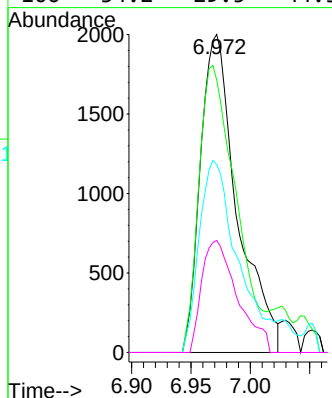
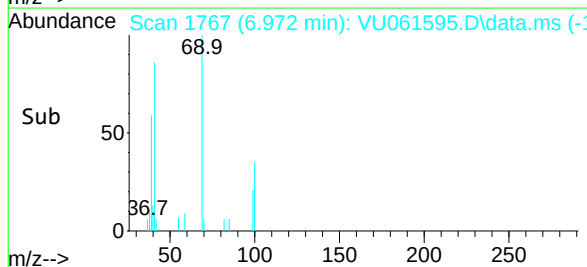
100 34.2 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#48

Ethyl methacrylate

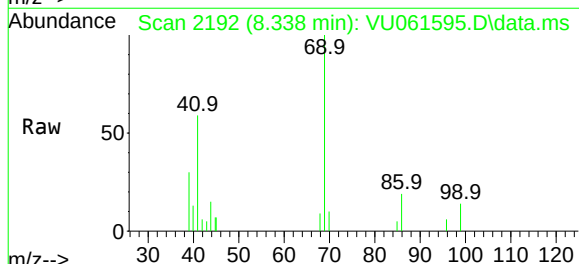
Concen: 0.415 ug/l

RT: 8.338 min Scan# 2192

Delta R.T. 0.013 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

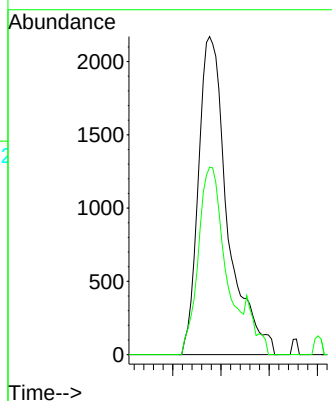
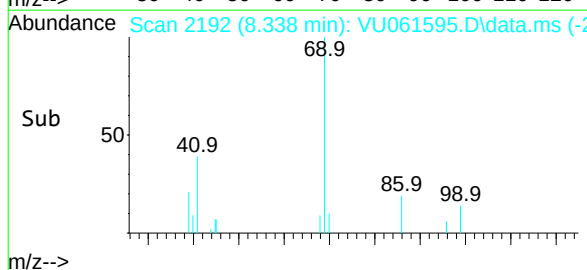


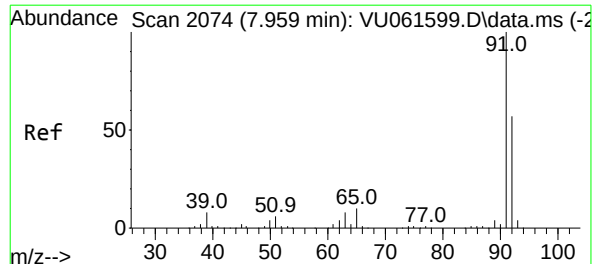
Tgt Ion: 69 Resp: 4557

Ion Ratio Lower Upper

69 100

41 54.4 27.3 81.9





#49

Toluene

Concen: 0.451 ug/l

RT: 7.968 min Scan# 2074

Delta R.T. 0.010 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion: 92 Resp: 14089

Ion Ratio Lower Upper

92 100

91 174.1 139.6 209.4

Instrument :

MSVOA_U

ClientSampleId :

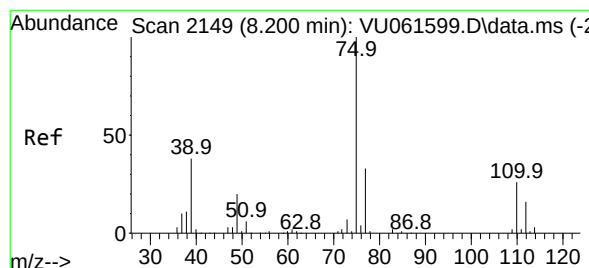
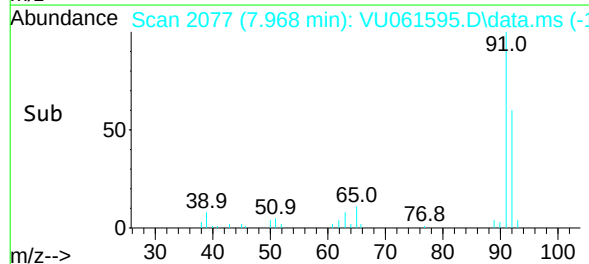
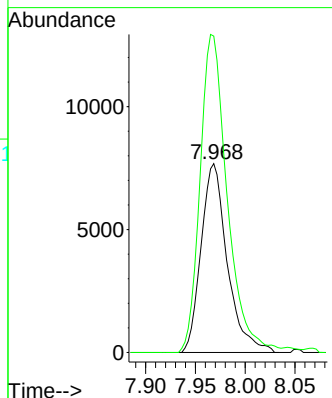
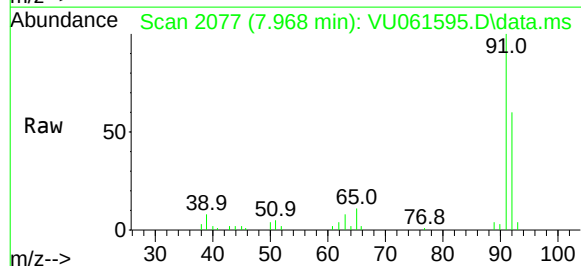
VSTDIC0.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#50

t-1,3-Dichloropropene

Concen: 0.414 ug/l

RT: 8.210 min Scan# 2152

Delta R.T. 0.010 min

Lab File: VU061595.D

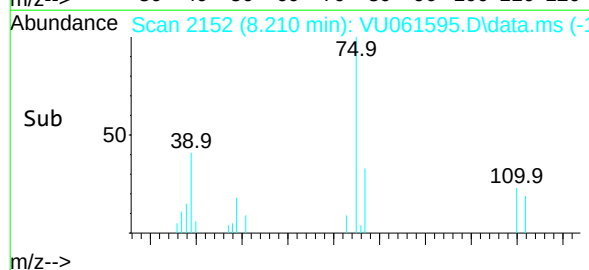
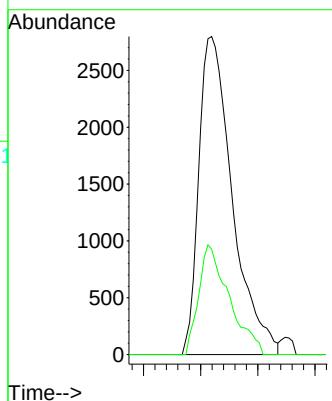
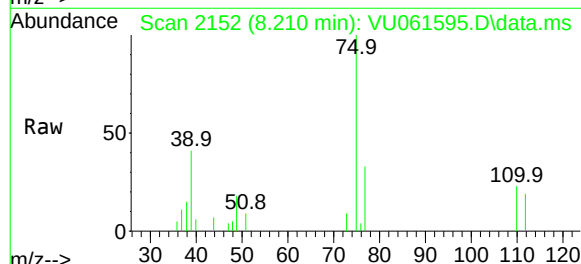
Acq: 12 Nov 2024 08:30

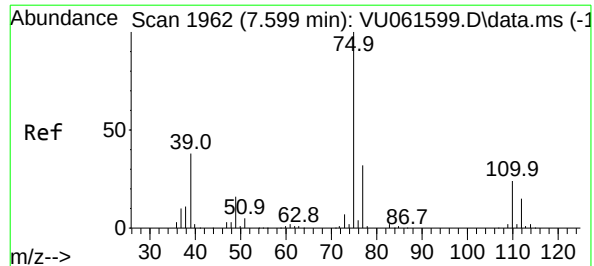
Tgt Ion: 75 Resp: 5699

Ion Ratio Lower Upper

75 100

77 33.1 26.0 39.0





#51

cis-1,3-Dichloropropene

Concen: 0.461 ug/l

RT: 7.605 min Scan# 19

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

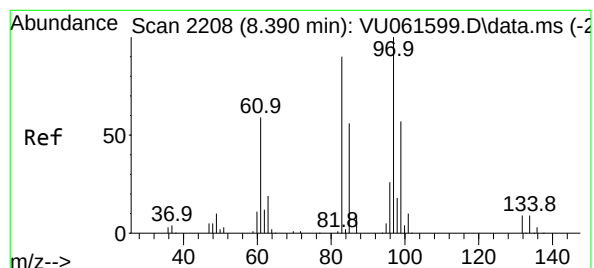
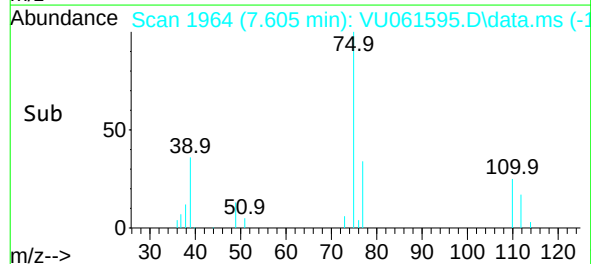
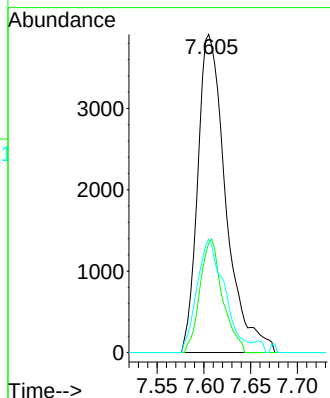
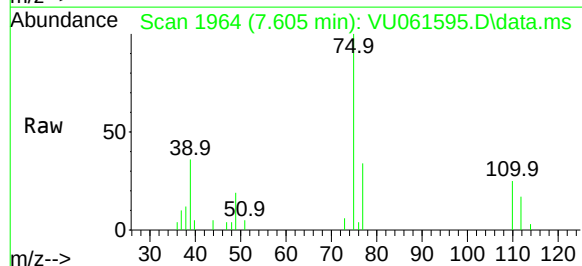
ClientSampleId :

VSTDIC0.5

Tgt	Ion	75	Resp:	8145
Ion	Ratio	Lower	Upper	
75	100			
77	34.3	25.5	38.3	
39	35.7	30.6	46.0	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#52

1,1,2-Trichloroethane

Concen: 0.486 ug/l

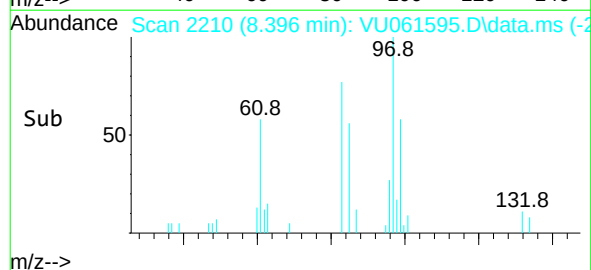
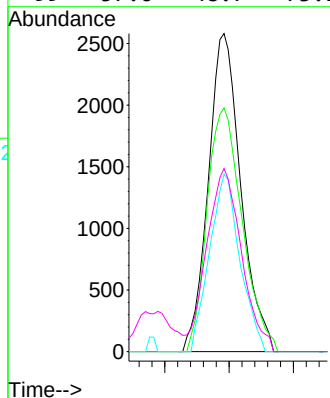
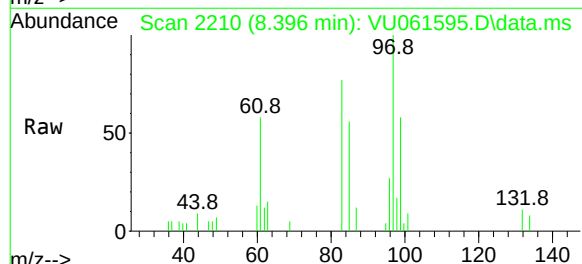
RT: 8.396 min Scan# 2210

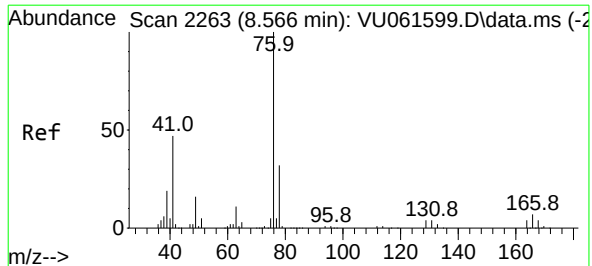
Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt	Ion	97	Resp:	4538
Ion	Ratio	Lower	Upper	
97	100			
83	76.6	71.7	107.5	
85	55.8	45.2	67.8	
99	57.6	48.7	73.1	





#53

1,3-Dichloropropane

Concen: 0.455 ug/l

RT: 8.570 min Scan# 2263

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 76 Resp: 7249

Ion Ratio Lower Upper

76 100

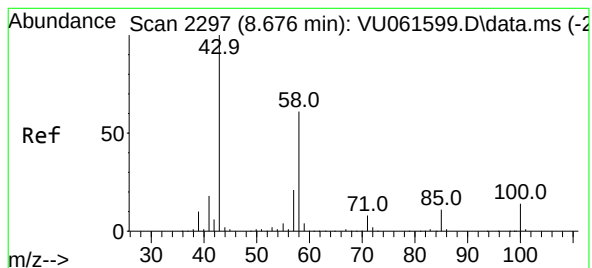
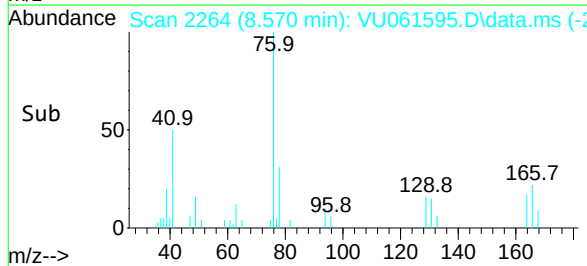
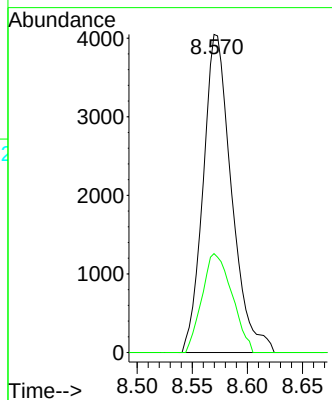
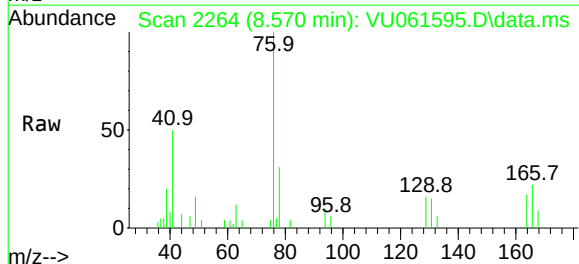
78 32.9 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#54

2-Hexanone

Concen: 2.983 ug/l

RT: 8.692 min Scan# 2302

Delta R.T. 0.016 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

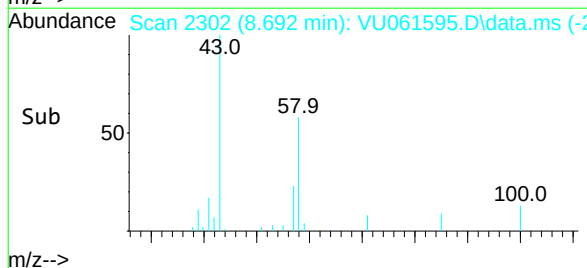
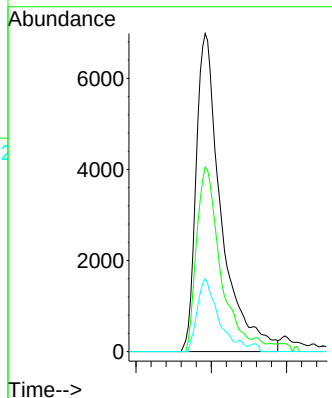
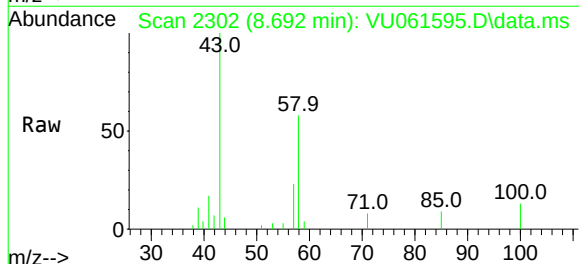
Tgt Ion: 43 Resp: 16101

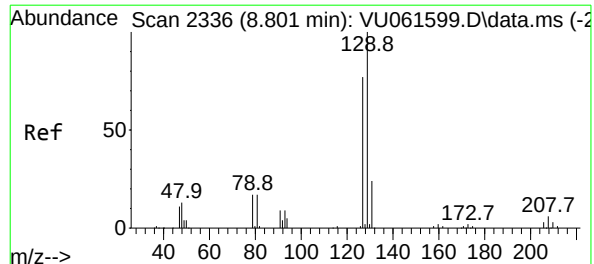
Ion Ratio Lower Upper

43 100

58 54.8 42.3 82.3

57 18.7 0.9 40.9





#55

Dibromochloromethane

Concen: 0.410 ug/l

RT: 8.804 min Scan# 2336

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion:129 Resp: 4145

Ion Ratio Lower Upper

129 100

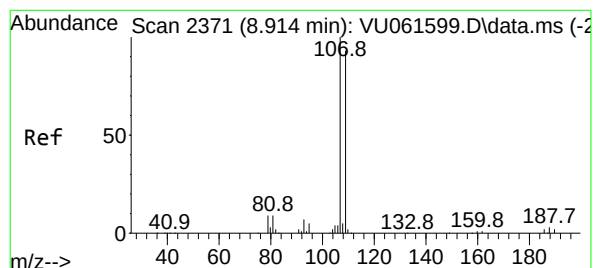
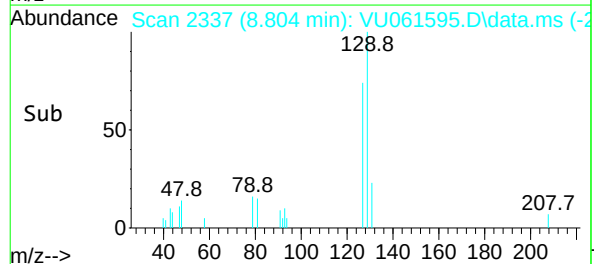
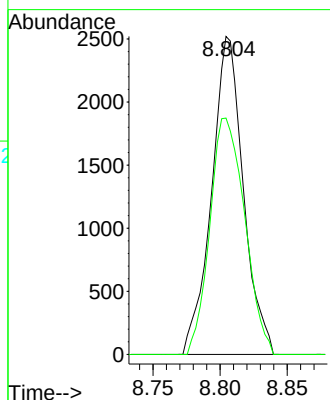
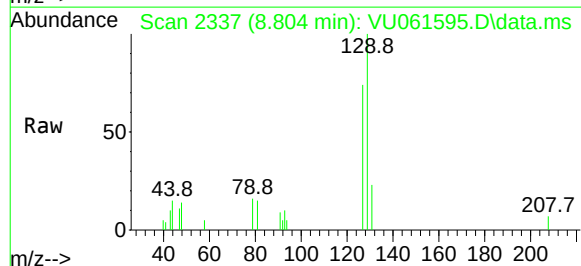
127 81.6 61.8 92.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#56

1,2-Dibromoethane

Concen: 0.454 ug/l

RT: 8.920 min Scan# 2373

Delta R.T. 0.006 min

Lab File: VU061595.D

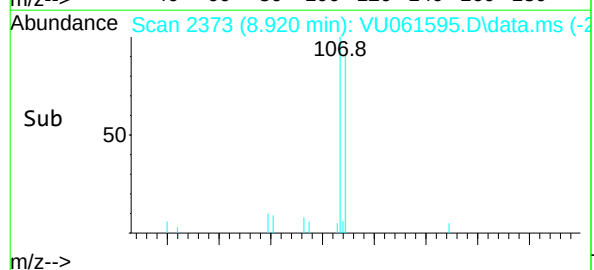
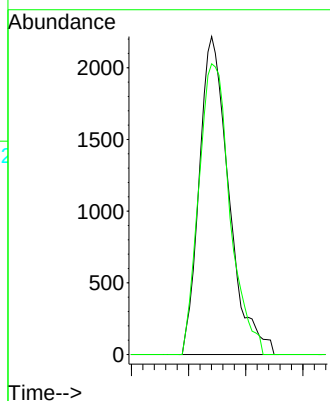
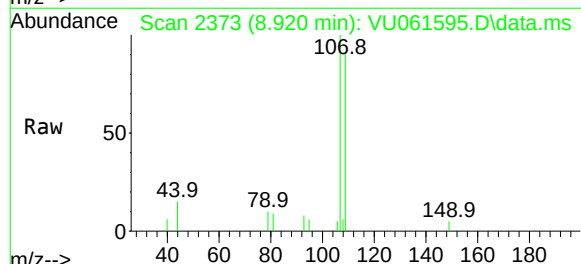
Acq: 12 Nov 2024 08:30

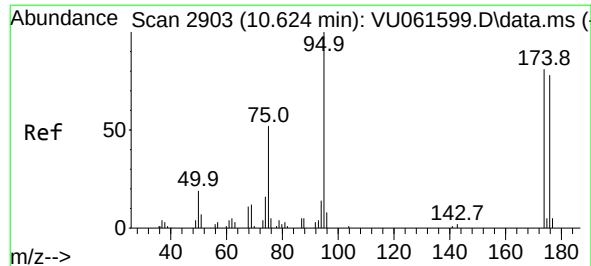
Tgt Ion:107 Resp: 3982

Ion Ratio Lower Upper

107 100

109 96.3 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 1.020 ug/l

RT: 10.631 min Scan# 2905

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC0.5

Tgt Ion: 95 Resp: 16791

Ion Ratio Lower Upper

95 100

174 80.8 67.5 101.3

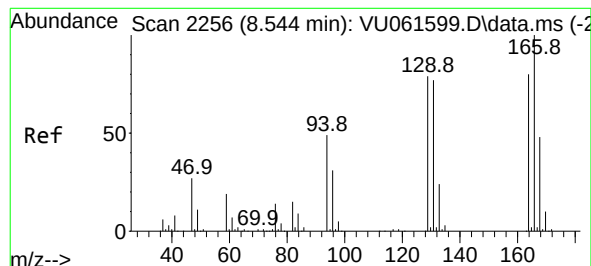
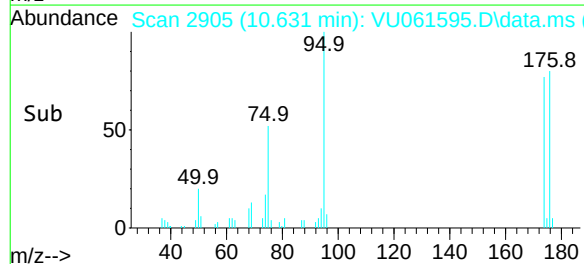
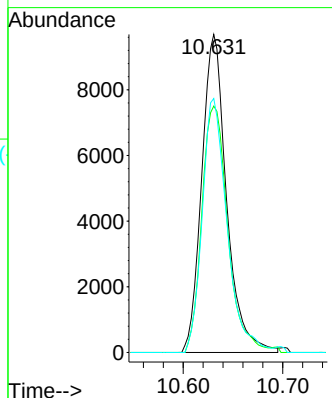
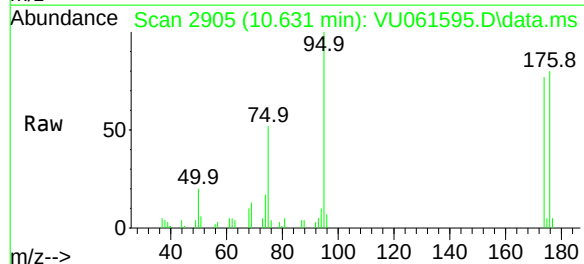
176 79.8 62.7 94.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#58

Tetrachloroethene

Concen: 0.476 ug/l

RT: 8.547 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion:164 Resp: 5802

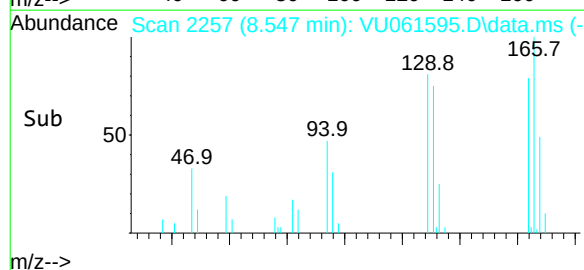
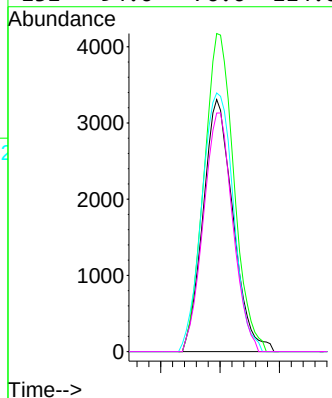
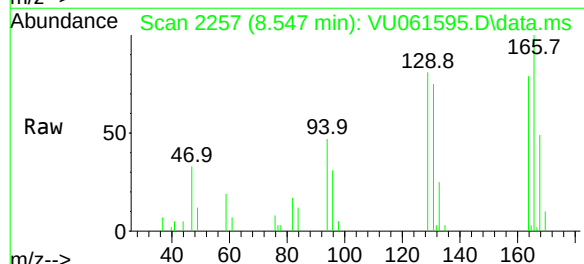
Ion Ratio Lower Upper

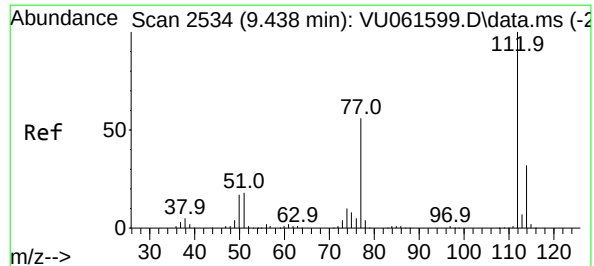
164 100

166 126.2 99.9 149.9

129 102.6 78.6 118.0

131 94.6 76.6 114.8





#59

Chlorobenzene

Concen: 0.450 ug/l

RT: 9.444 min Scan# 2536

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion:112 Resp: 15558

Ion Ratio Lower Upper

112 100

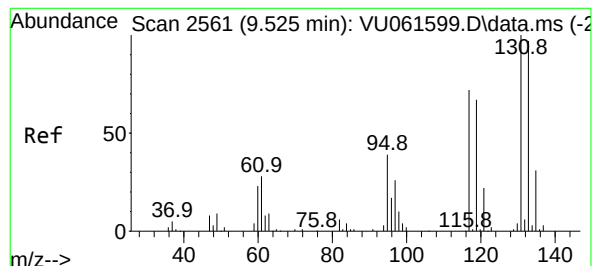
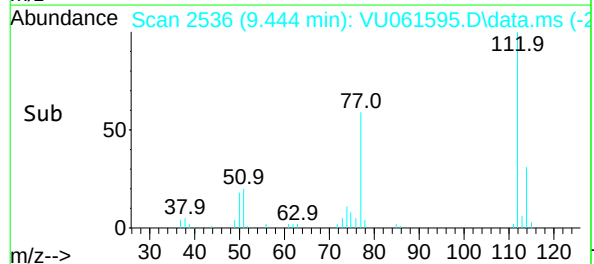
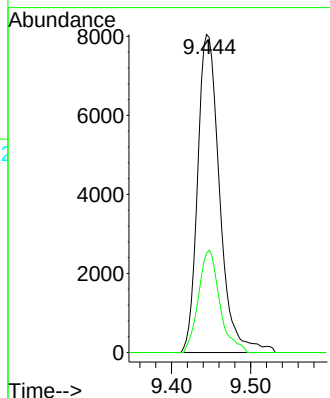
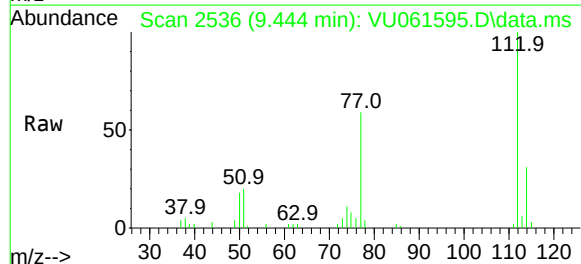
114 31.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#60

1,1,1,2-Tetrachloroethane

Concen: 0.433 ug/l

RT: 9.528 min Scan# 2562

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

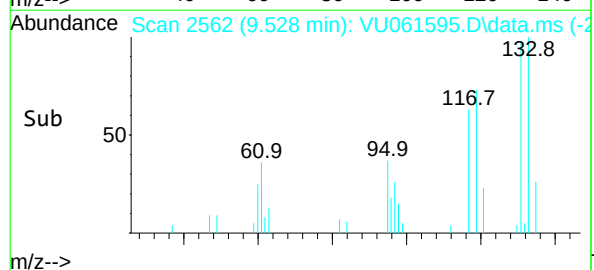
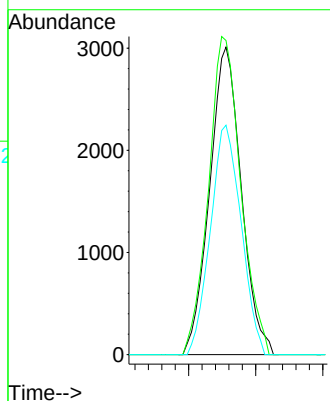
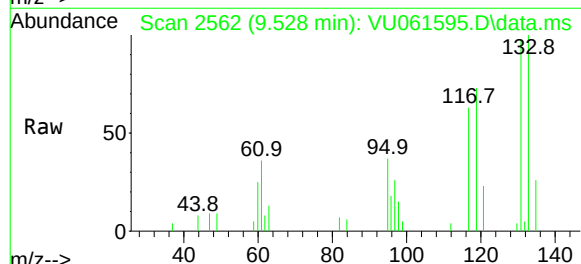
Tgt Ion:131 Resp: 4937

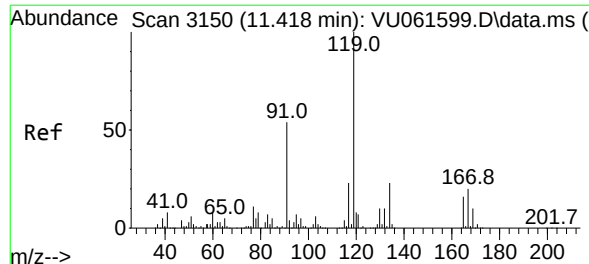
Ion Ratio Lower Upper

131 100

133 105.2 76.4 114.6

119 72.3 53.5 80.3





#61

Pentachloroethane

Concen: 0.424 ug/l

RT: 11.415 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion:117 Resp: 3639

Ion Ratio Lower Upper

117 100

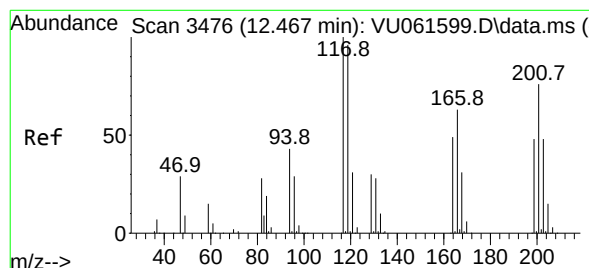
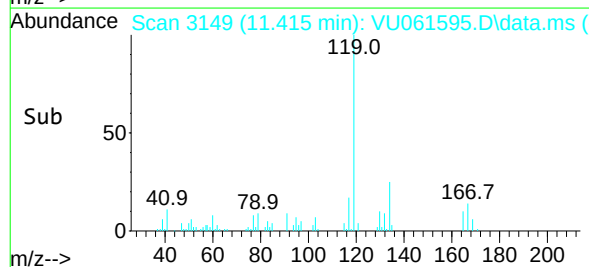
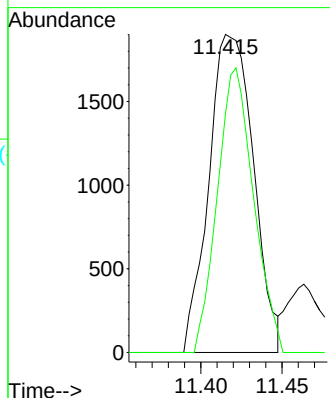
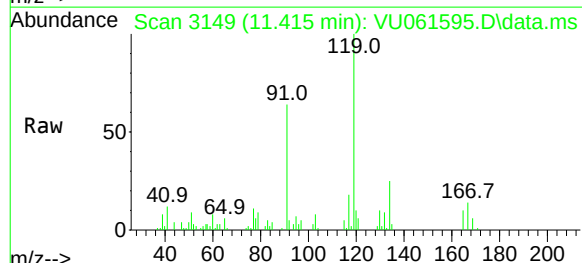
167 72.5 65.4 98.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 0.678 ug/l

RT: 12.467 min Scan# 3476

Delta R.T. 0.000 min

Lab File: VU061595.D

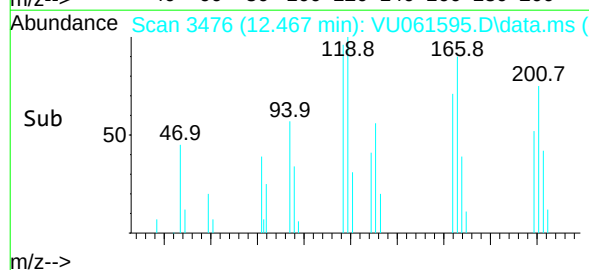
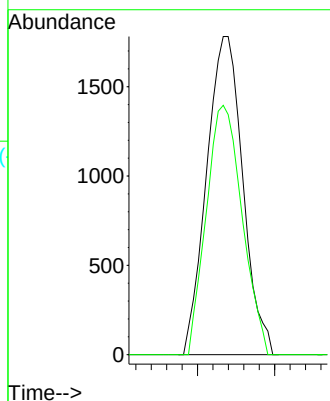
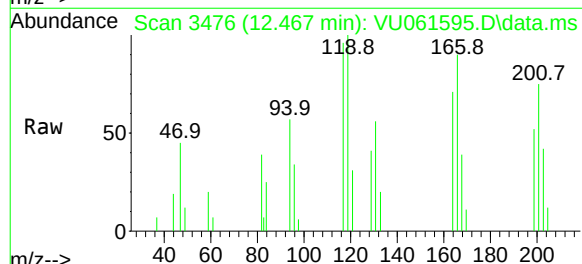
Acq: 12 Nov 2024 08:30

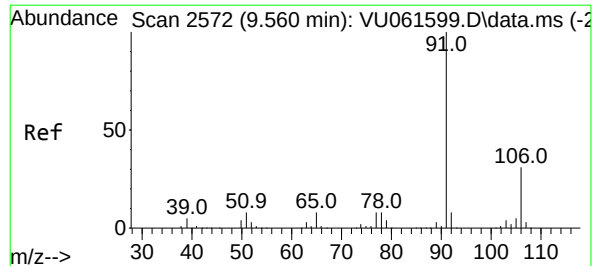
Tgt Ion:117 Resp: 2905

Ion Ratio Lower Upper

117 100

201 77.4 61.0 91.6





#63

Ethyl Benzene

Concen: 0.442 ug/l

RT: 9.566 min Scan# 2573

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 91 Resp: 25730

Ion Ratio Lower Upper

91 100

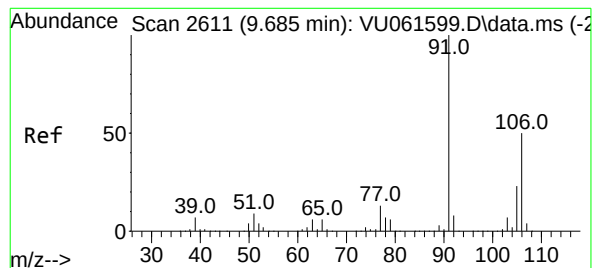
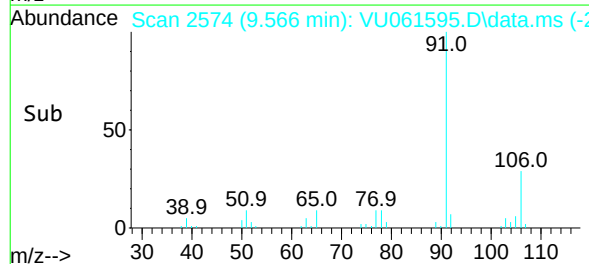
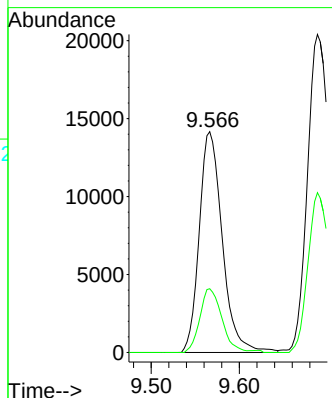
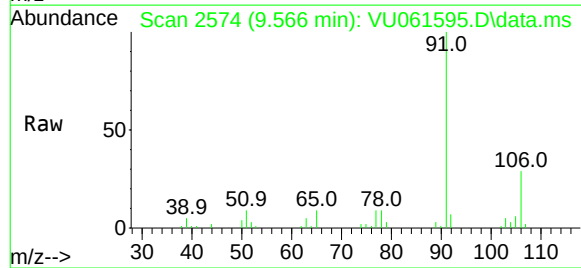
106 28.9 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#64

m/p-Xylenes

Concen: 0.838 ug/l

RT: 9.689 min Scan# 2612

Delta R.T. 0.003 min

Lab File: VU061595.D

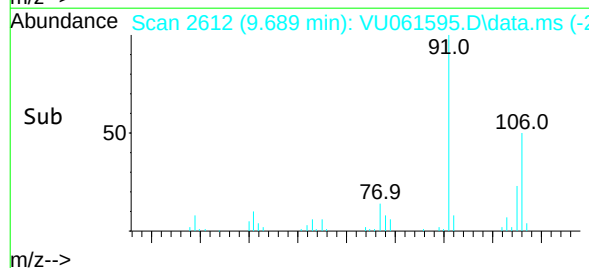
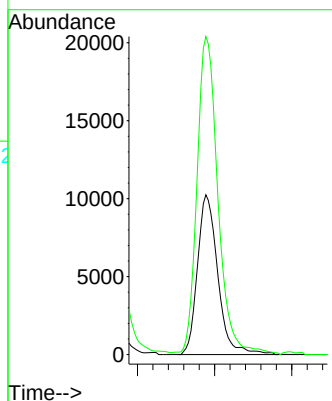
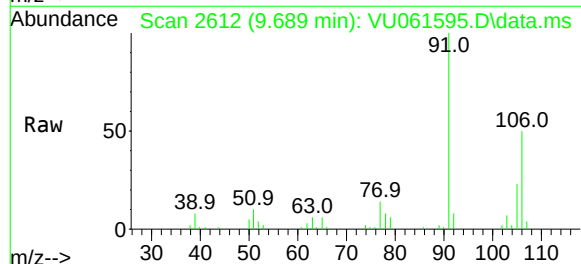
Acq: 12 Nov 2024 08:30

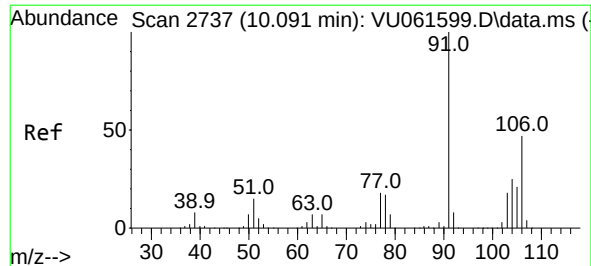
Tgt Ion:106 Resp: 18762

Ion Ratio Lower Upper

106 100

91 205.4 161.3 241.9





#65

o-Xylene

Concen: 0.447 ug/l

RT: 10.097 min Scan# 2737

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion:106 Resp: 9773

Ion Ratio Lower Upper

106 100

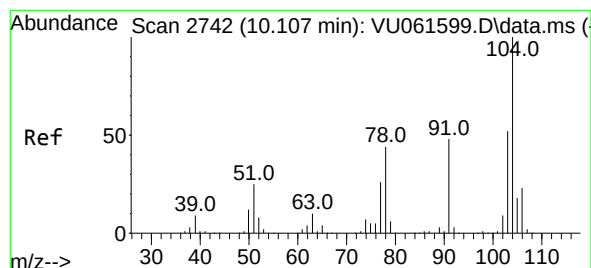
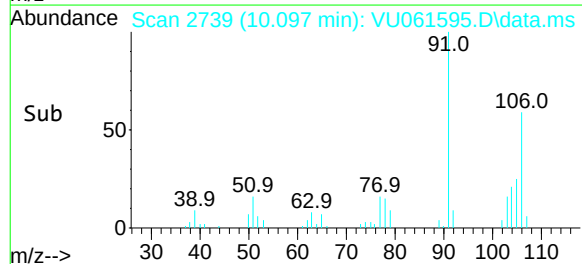
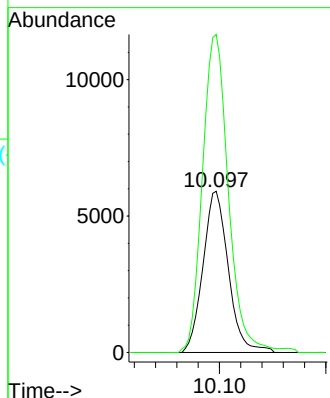
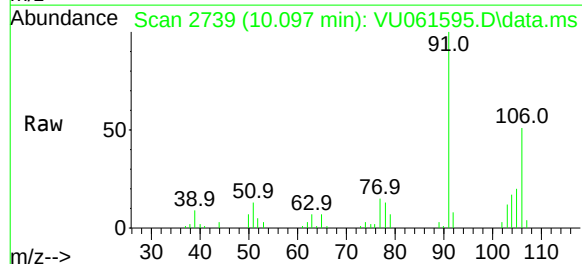
91 201.2 106.7 320.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#66

Styrene

Concen: 0.597 ug/l

RT: 10.113 min Scan# 2744

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

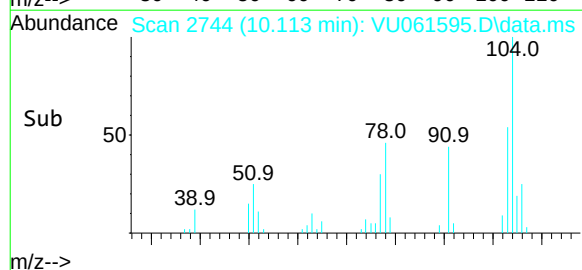
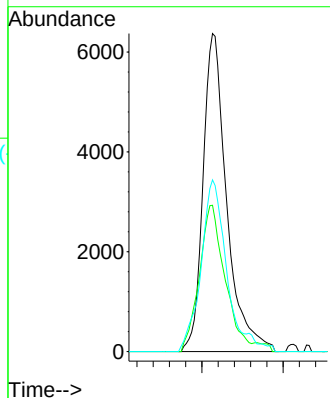
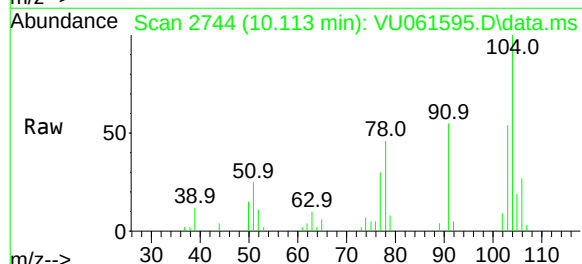
Tgt Ion:104 Resp: 12886

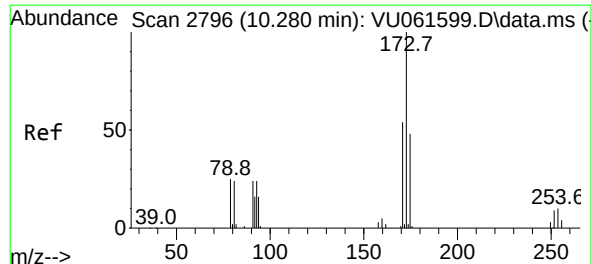
Ion Ratio Lower Upper

104 100

78 49.6 39.2 58.8

103 58.8 44.9 67.3





#67

Bromoform

Concen: 0.401 ug/l

RT: 10.287 min Scan# 2796

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

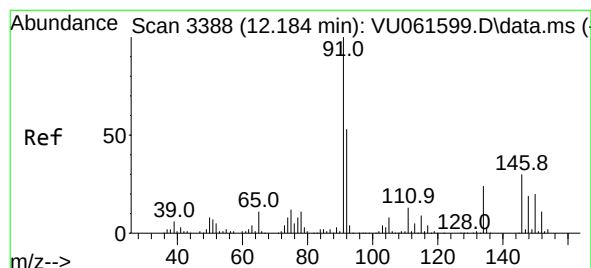
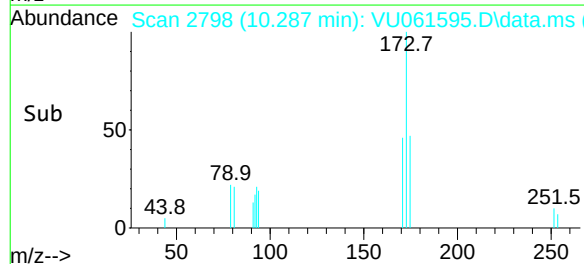
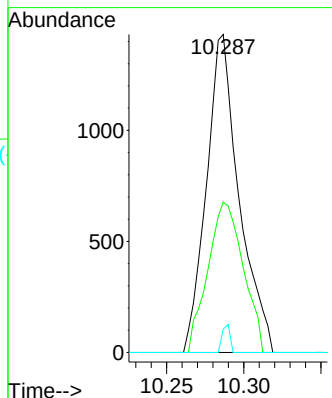
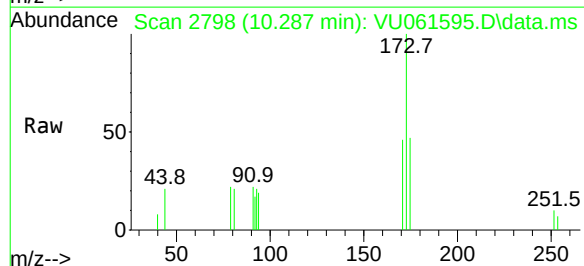
ClientSampleId :

VSTDICC0.5

Tgt	Ion	173	Resp:	2104
Ion	Ratio	Lower	Upper	
173	100			
175	51.2	38.4	57.6	
254	2.1	7.7	11.5	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 0.931 ug/l

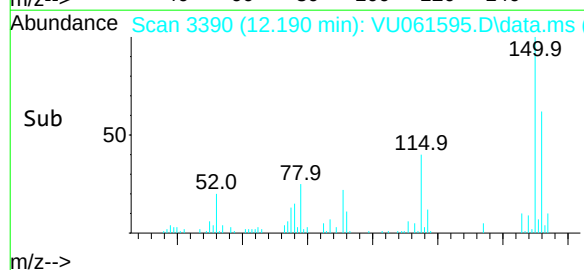
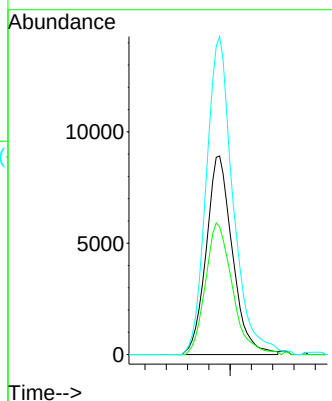
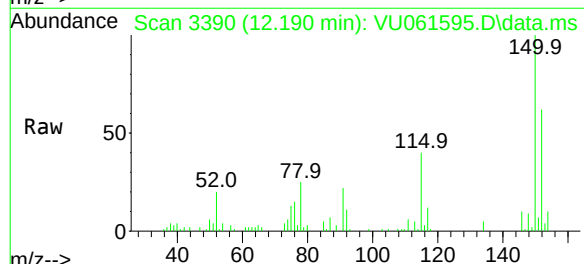
RT: 12.190 min Scan# 3390

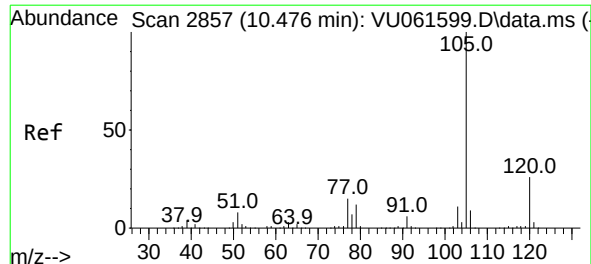
Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt	Ion	152	Resp:	15262
Ion	Ratio	Lower	Upper	
152	100			
115	67.8	0.0	259.0	
150	164.0	0.0	650.2	





#69

Isopropylbenzene

Concen: 0.427 ug/l

RT: 10.480 min Scan# 28

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 105 Resp: 21818

Ion Ratio Lower Upper

105 100

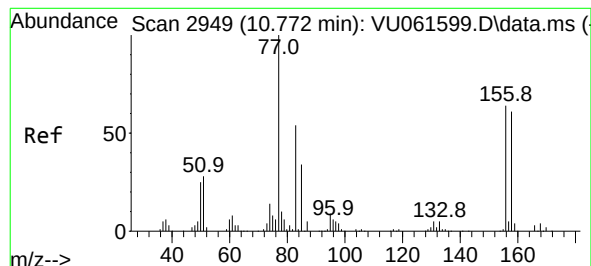
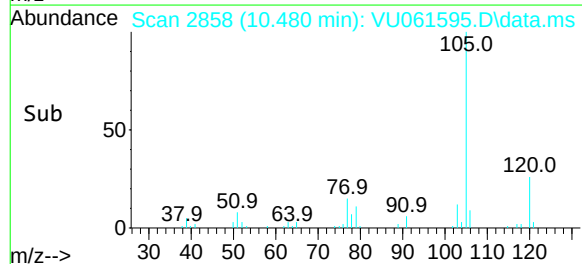
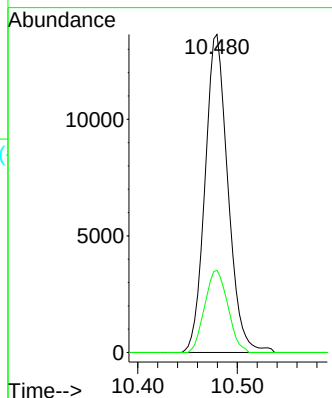
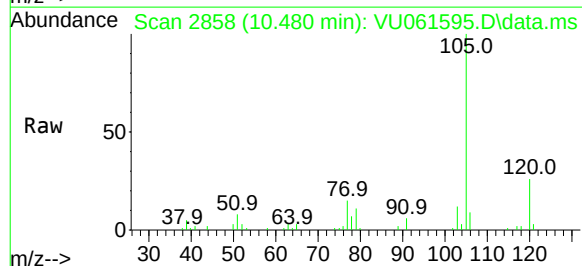
120 26.0 13.2 39.6

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 0.466 ug/l

RT: 10.775 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

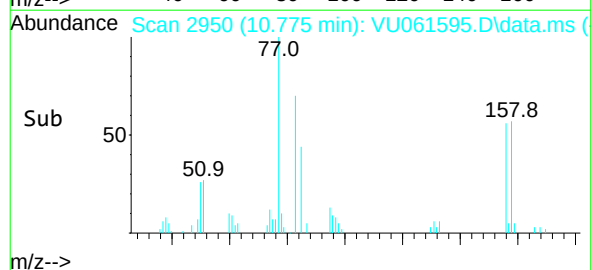
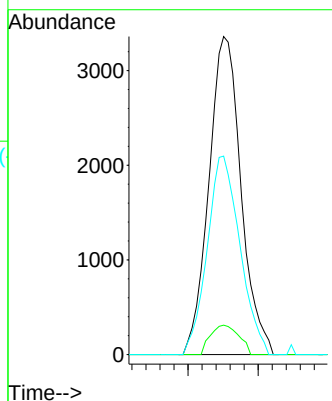
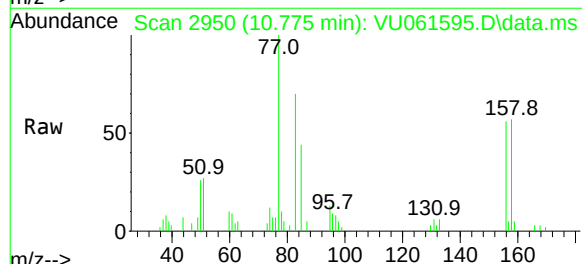
Tgt Ion: 83 Resp: 5351

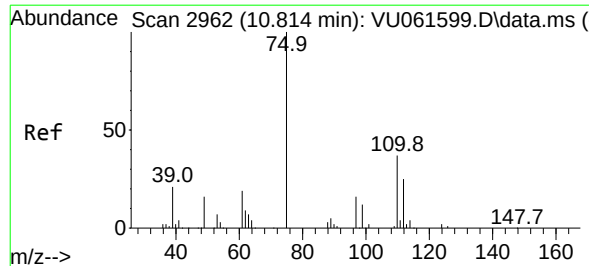
Ion Ratio Lower Upper

83 100

131 8.2 7.9 11.9

85 63.5 51.4 77.2





#71

1,2,3-Trichloropropane

Concen: 0.464 ug/l m

RT: 10.820 min Scan# 29

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion: 75 Resp: 4344

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 29.7 0.0 61.6

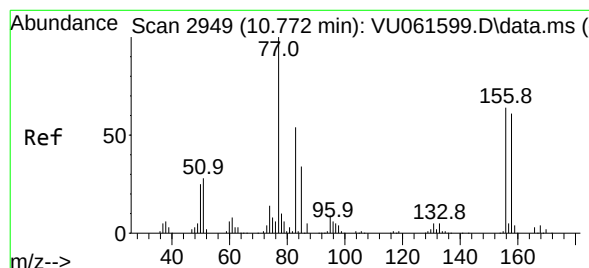
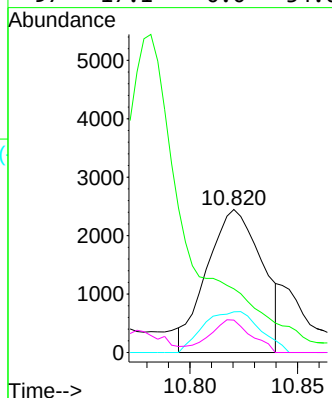
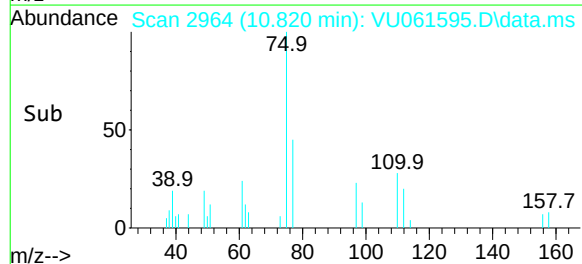
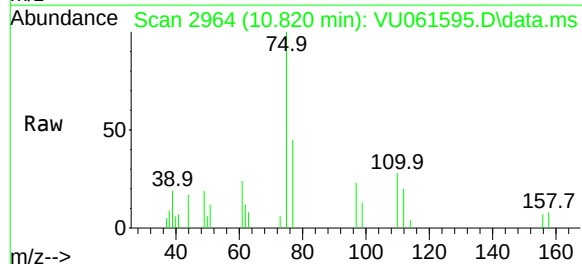
97 17.1 0.0 34.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

Concen: 0.432 ug/l

RT: 10.782 min Scan# 2952

Delta R.T. 0.010 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

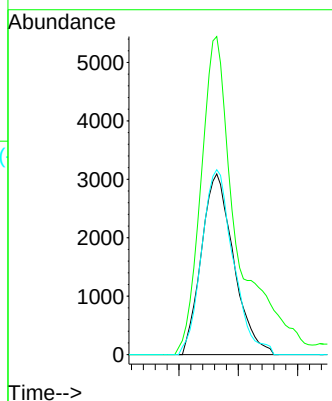
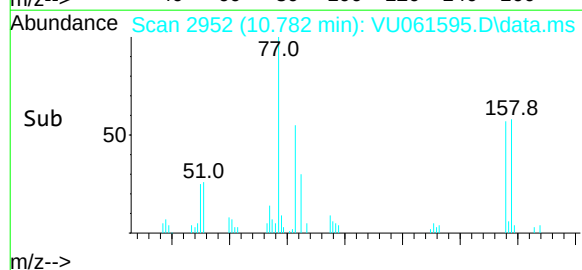
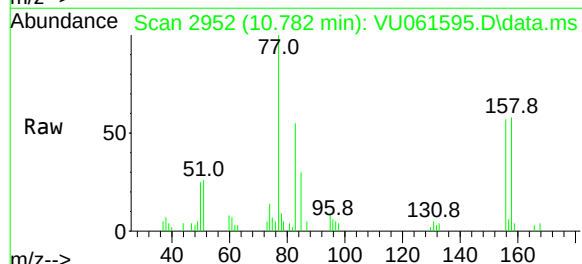
Tgt Ion:156 Resp: 5845

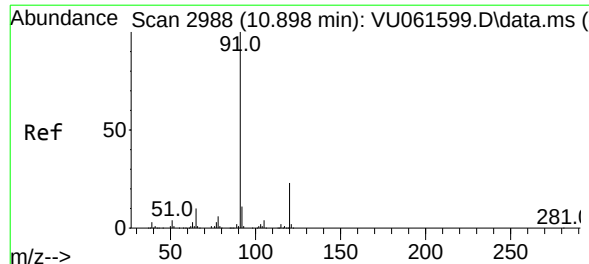
Ion Ratio Lower Upper

156 100

77 198.6 0.0 313.0

158 100.4 0.0 193.2





#73

n-propylbenzene

Concen: 0.417 ug/l

RT: 10.901 min Scan# 29

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion:120 Resp: 6300

Ion Ratio Lower Upper

120 100

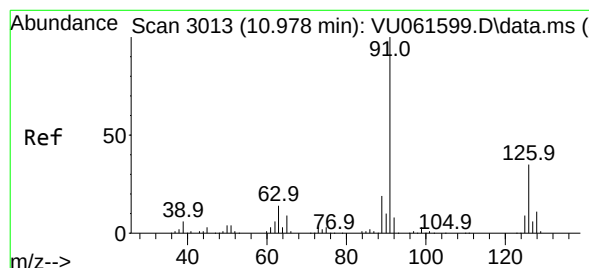
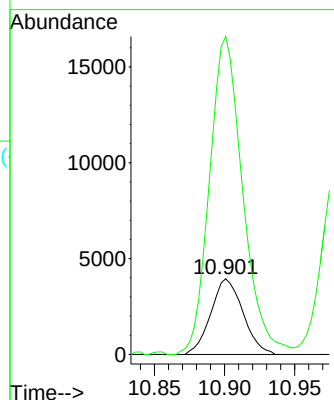
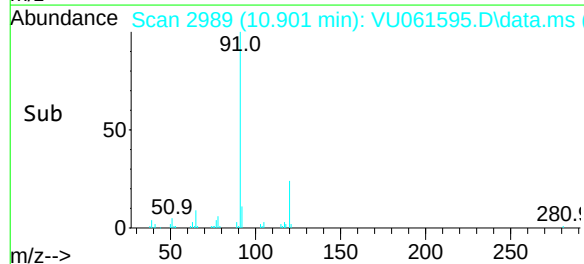
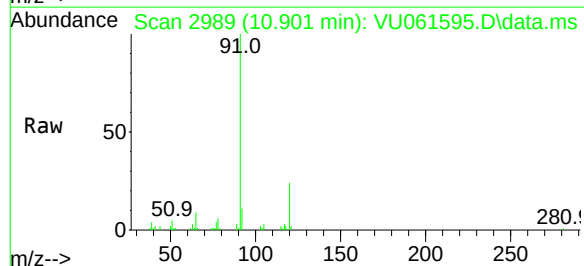
91 435.1 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

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#74

2-Chlorotoluene

Concen: 0.402 ug/l

RT: 10.981 min Scan# 3014

Delta R.T. 0.003 min

Lab File: VU061595.D

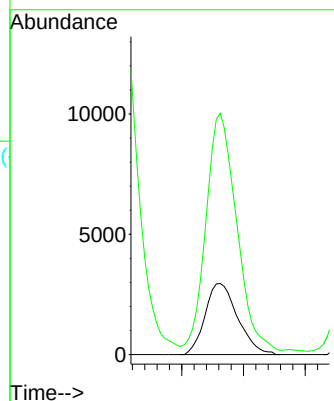
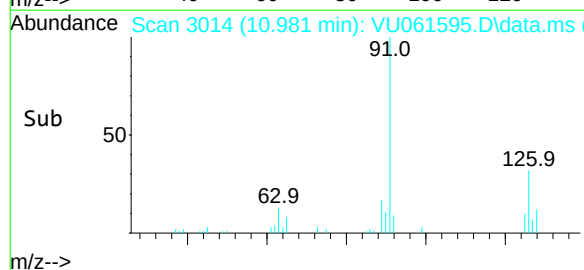
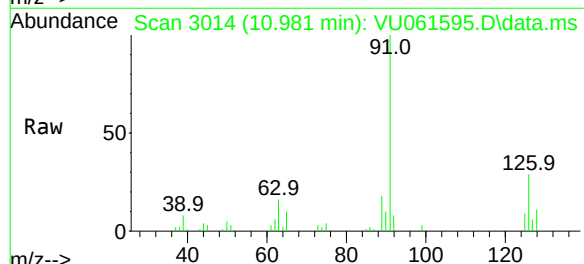
Acq: 12 Nov 2024 08:30

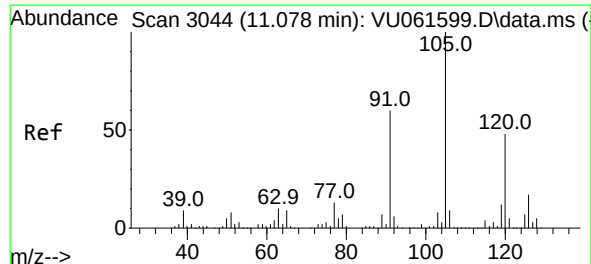
Tgt Ion:126 Resp: 5411

Ion Ratio Lower Upper

126 100

91 314.5 0.0 587.6





#75

1,3,5-Trimethylbenzene

Concen: 0.407 ug/l

RT: 11.081 min Scan# 30

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion:105 Resp: 18804

Ion Ratio Lower Upper

105 100

120 46.2 38.8 58.2

Instrument :

MSVOA_U

ClientSampleId :

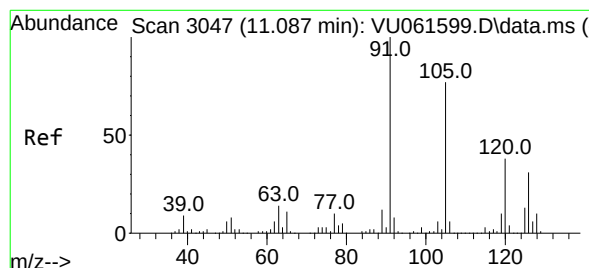
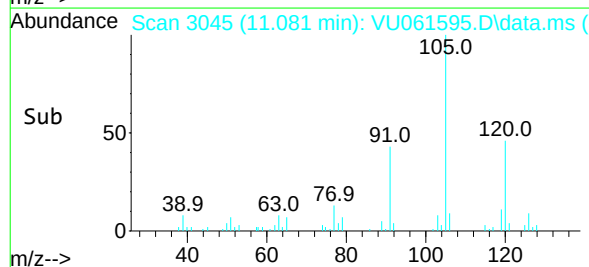
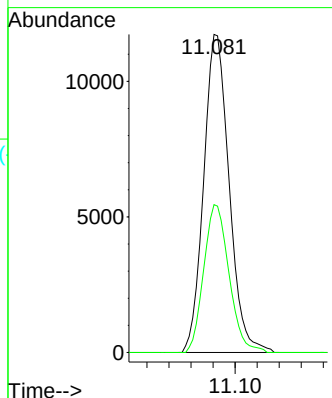
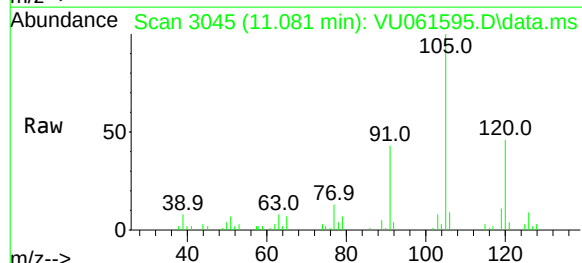
VSTDIC0.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#76

4-Chlorotoluene

Concen: 0.393 ug/l

RT: 11.097 min Scan# 3050

Delta R.T. 0.010 min

Lab File: VU061595.D

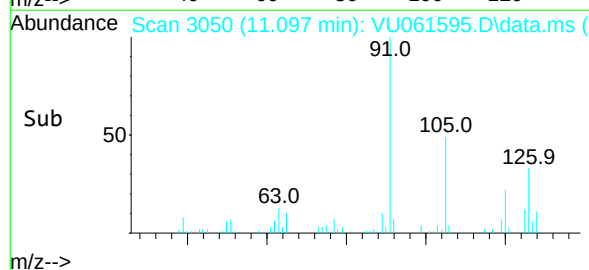
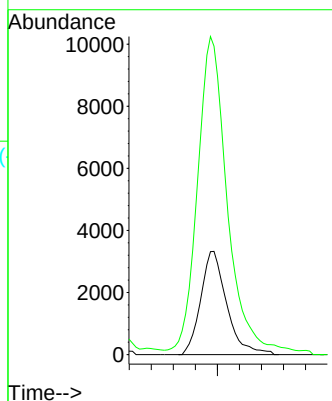
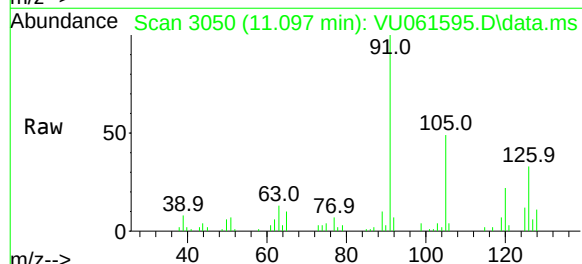
Acq: 12 Nov 2024 08:30

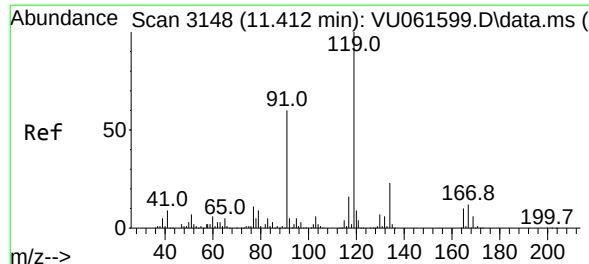
Tgt Ion:126 Resp: 5451

Ion Ratio Lower Upper

126 100

91 358.7 0.0 650.4





#77

tert-Butylbenzene

Concen: 0.403 ug/l

RT: 11.412 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

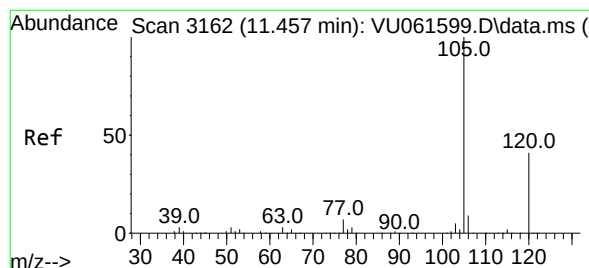
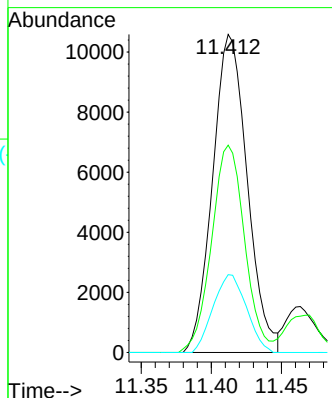
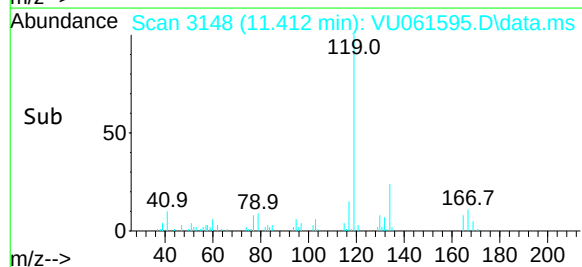
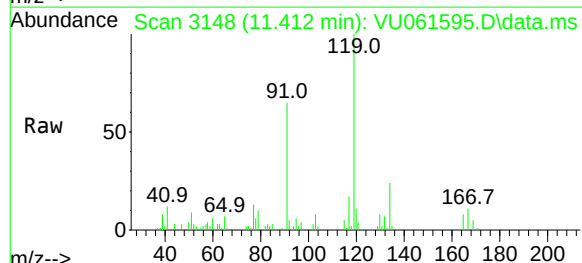
ClientSampleId :

VSTDIC0.5

Tgt Ion:	119	Resp:	18183
Ion Ratio	Lower	Upper	
119	100		
91	62.3	29.2	87.6
134	23.5	18.4	27.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 0.572 ug/l

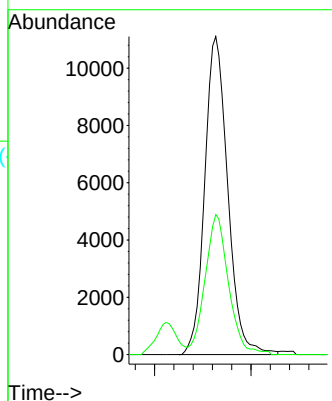
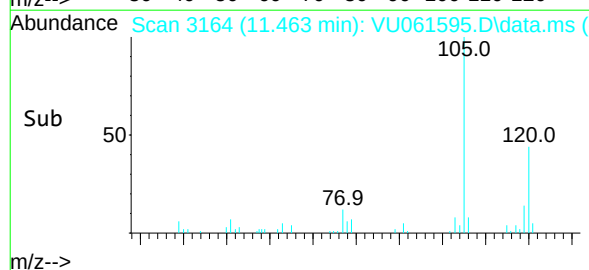
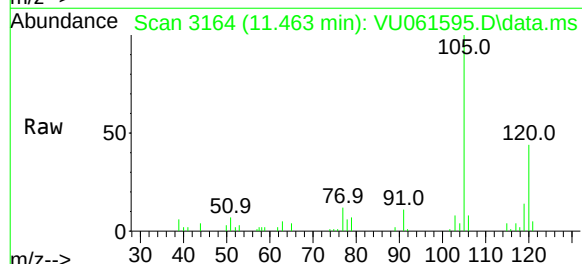
RT: 11.463 min Scan# 3164

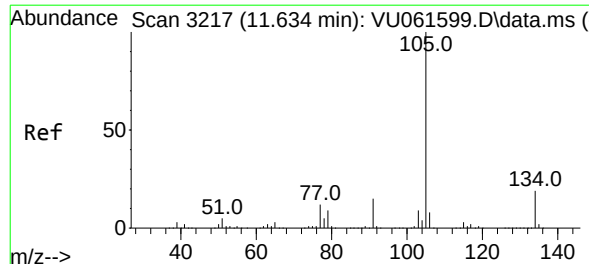
Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion:	105	Resp:	18414
Ion Ratio	Lower	Upper	
105	100		
120	44.9	22.7	68.0





#79

sec-Butylbenzene

Concen: 0.410 ug/l

RT: 11.637 min Scan# 3217

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 24523

Ion Ratio Lower Upper

105 100

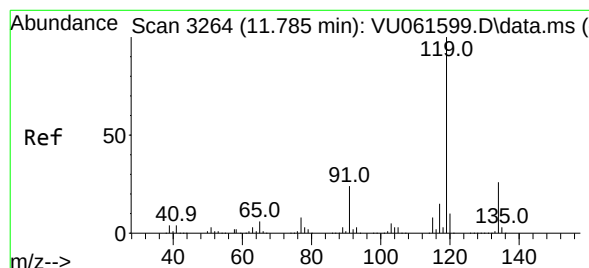
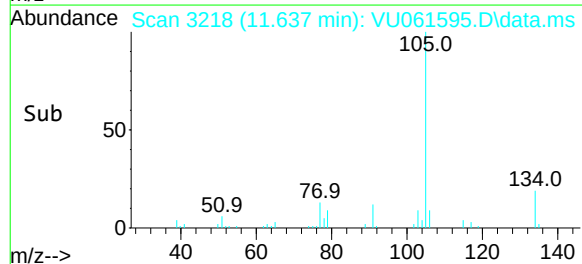
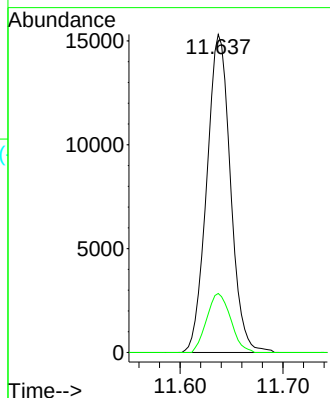
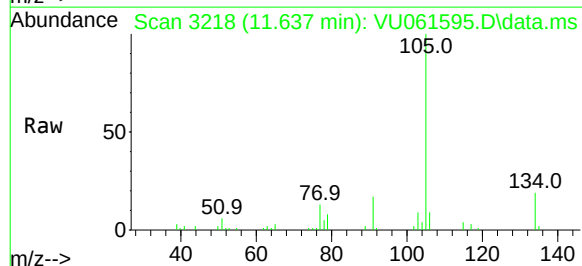
134 18.7 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#81

p-Isopropyltoluene

Concen: 0.584 ug/l

RT: 11.788 min Scan# 3265

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

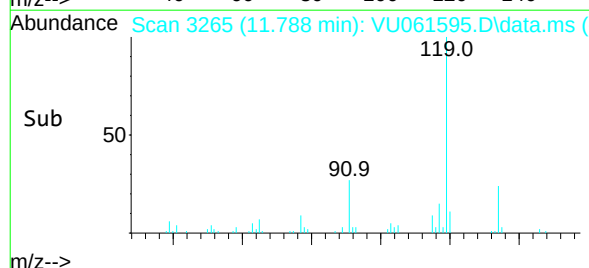
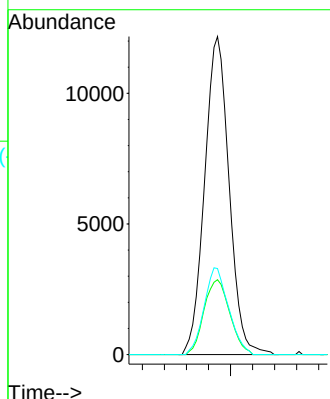
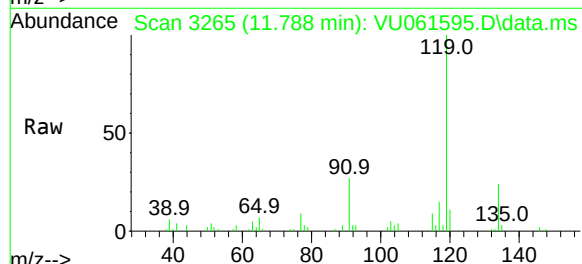
Tgt Ion:119 Resp: 18789

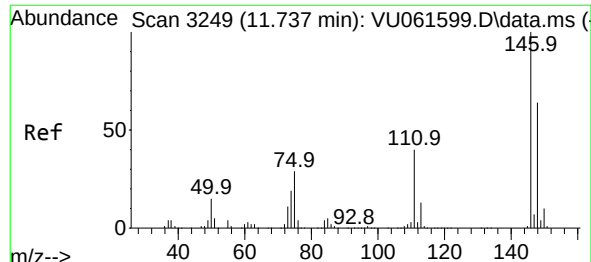
Ion Ratio Lower Upper

119 100

134 24.8 20.9 31.3

91 27.2 18.8 28.2





#82

1,3-Dichlorobenzene

Concen: 0.437 ug/l

RT: 11.743 min Scan# 32

Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

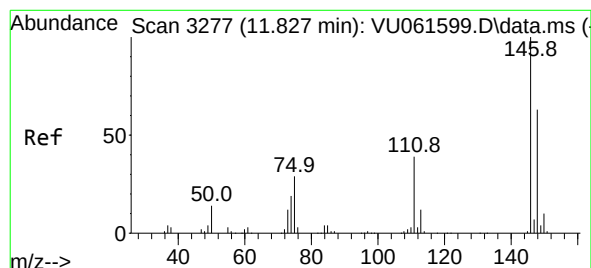
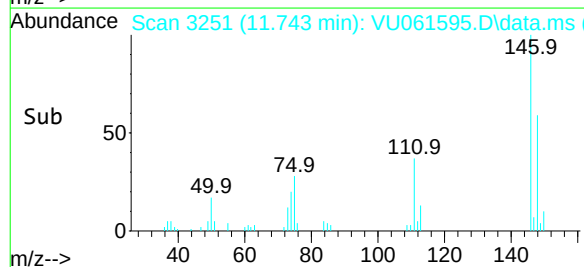
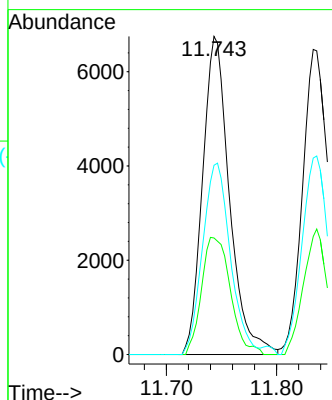
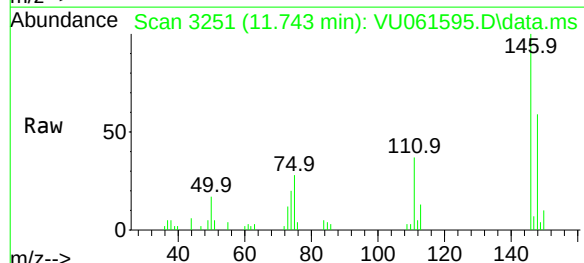
ClientSampleId :

VSTDIC0.5

Tgt	Ion:146	Resp:	11451
Ion	Ratio	Lower	Upper
146	100		
111	39.4	32.6	49.0
148	62.1	51.0	76.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#83

1,4-Dichlorobenzene

Concen: 0.442 ug/l

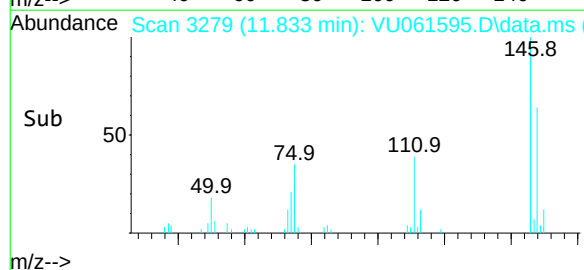
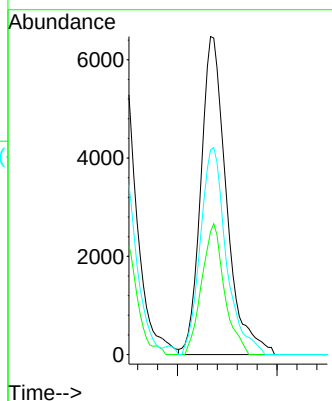
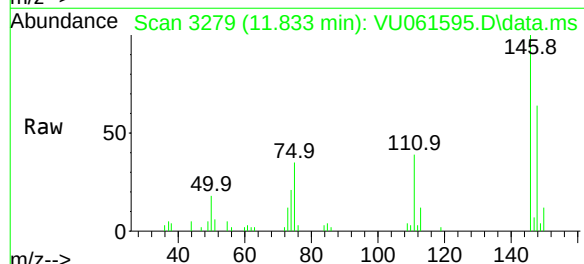
RT: 11.833 min Scan# 3279

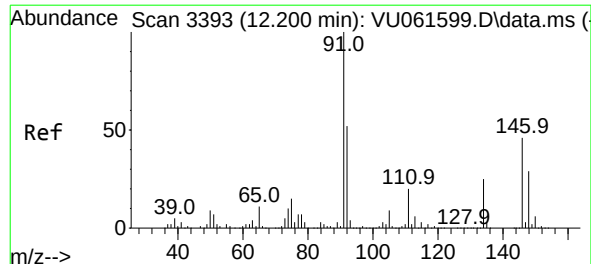
Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt	Ion:146	Resp:	11578
Ion	Ratio	Lower	Upper
146	100		
111	36.4	31.2	46.8
148	65.8	50.2	75.2





#84

n-Butylbenzene

Concen: 0.582 ug/l

RT: 12.203 min Scan# 3393

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

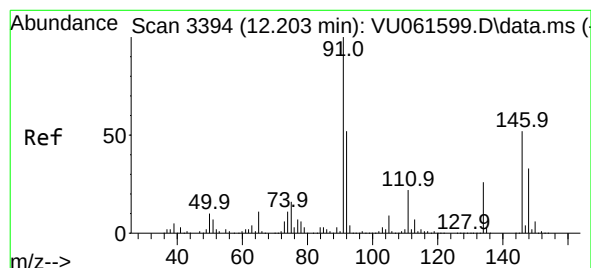
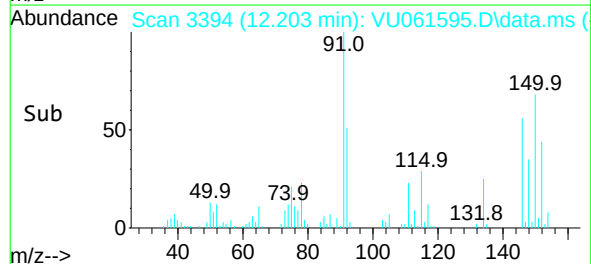
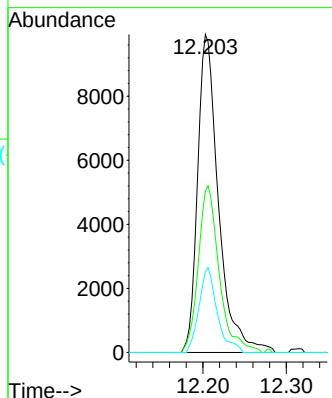
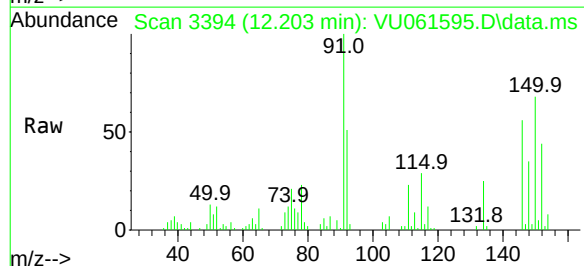
ClientSampleId :

VSTDIC0.5

Tgt Ion:	91	Resp:	17270
Ion	Ratio	Lower	Upper
91	100		
92	52.5	41.8	62.6
134	23.3	20.2	30.4

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#85

1,2-Dichlorobenzene

Concen: 0.436 ug/l

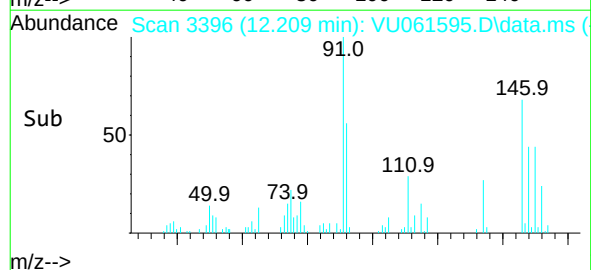
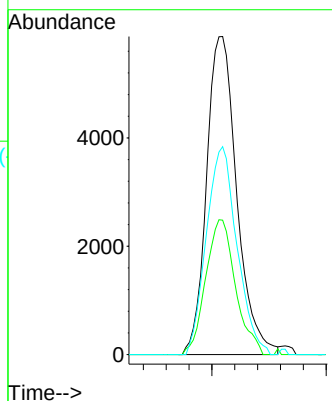
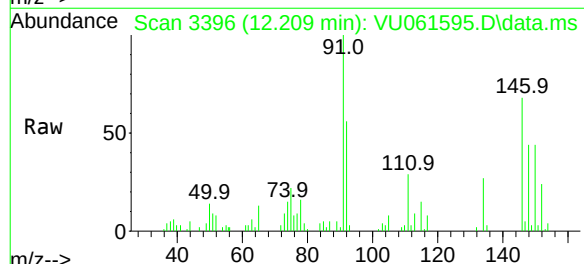
RT: 12.209 min Scan# 3396

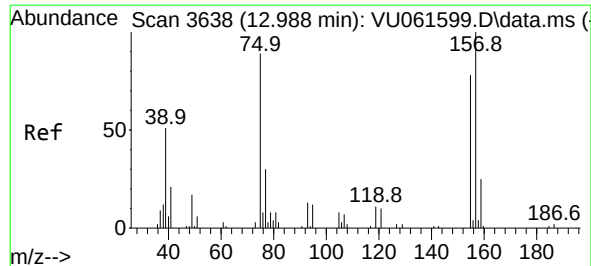
Delta R.T. 0.006 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Tgt Ion:	146	Resp:	10790
Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.3	63.9
148	66.4	32.0	96.2





#86

1,2-Dibromo-3-Chloropropane

Concen: 0.706 ug/l

RT: 13.000 min Scan# 36

Delta R.T. 0.013 min

Lab File: VU061595.D

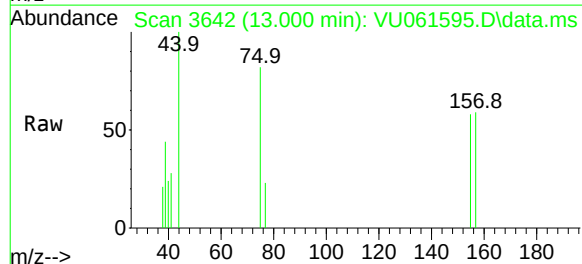
Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

ClientSampleId :

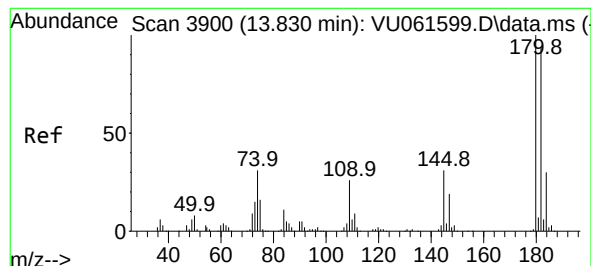
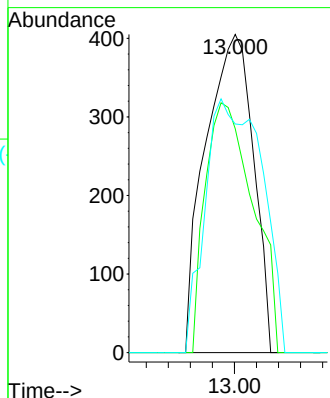
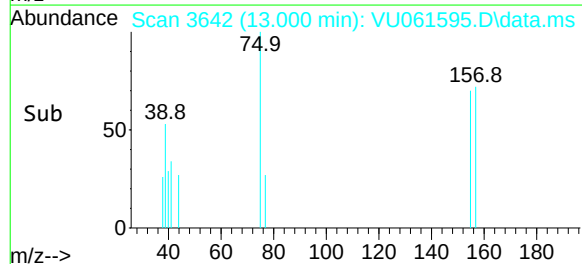
VSTDIC0.5



Tgt Ion:	75	Resp:	611
Ion	Ratio	Lower	Upper
75	100		
155	78.9	68.8	103.2
157	94.6	88.2	132.4

Manual Integrations
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Supervised By :Mahesh Dadoda 11/13/2024



#87

1,2,4-Trichlorobenzene

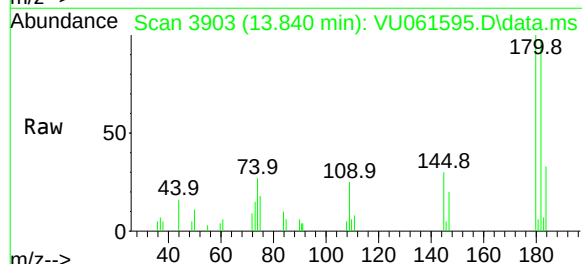
Concen: 0.755 ug/l

RT: 13.840 min Scan# 3903

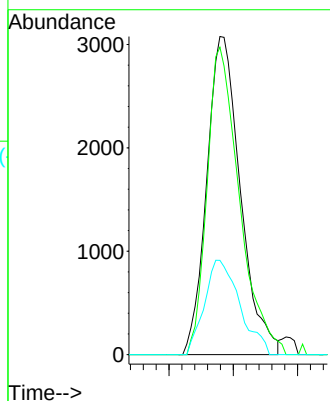
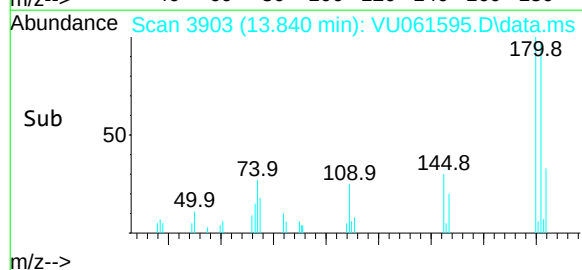
Delta R.T. 0.010 min

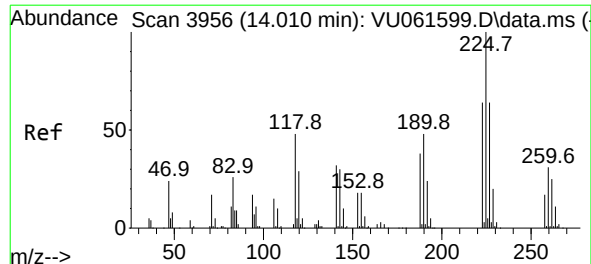
Lab File: VU061595.D

Acq: 12 Nov 2024 08:30



Tgt Ion:	180	Resp:	5587
Ion	Ratio	Lower	Upper
180	100		
182	93.0	75.3	112.9
145	31.2	24.3	36.5





#88

Hexachlorobutadiene

Concen: 0.445 ug/l

RT: 14.013 min Scan# 39

Delta R.T. 0.003 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

Instrument :

MSVOA_U

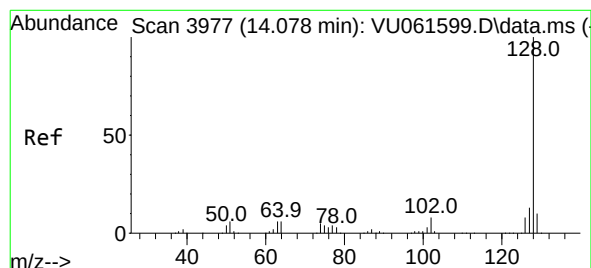
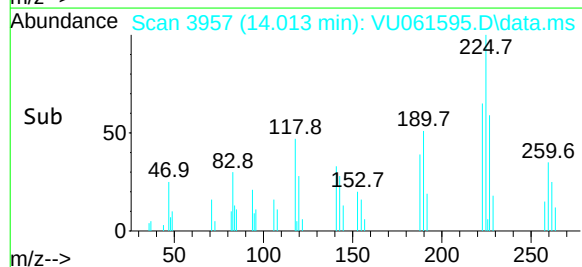
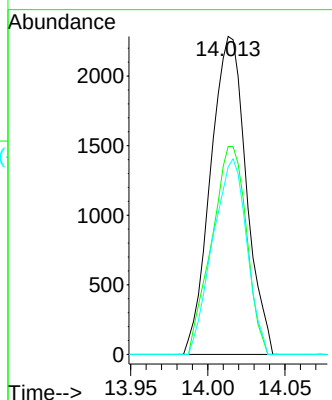
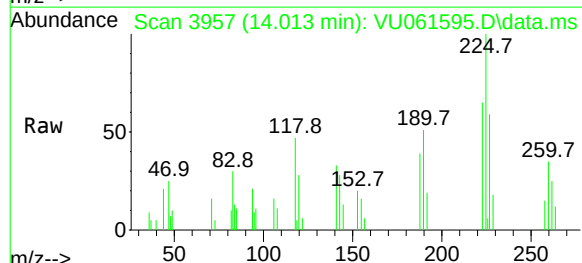
ClientSampleId :

VSTDICC0.5

Tgt	Ion	225	Resp:	3678
Ion	Ratio	Lower	Upper	
225	100			
223	63.5	50.8	76.2	
227	58.5	51.2	76.8	

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#89

Naphthalene

Concen: 0.875 ug/l

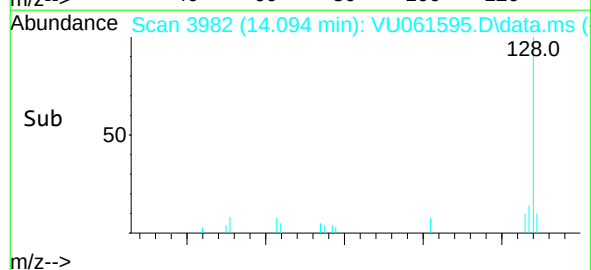
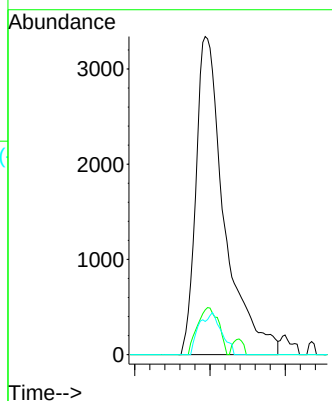
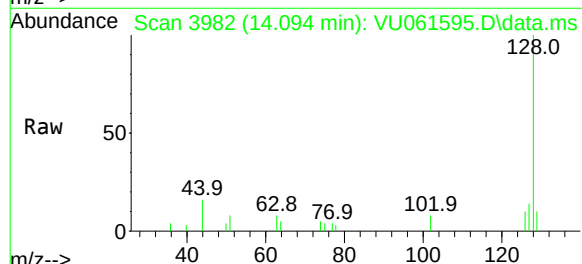
RT: 14.094 min Scan# 3982

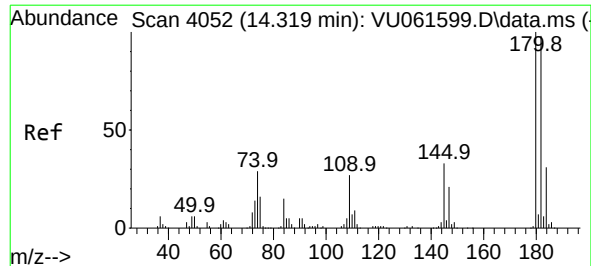
Delta R.T. 0.016 min

Lab File: VU061595.D

Acq: 12 Nov 2024 08:30

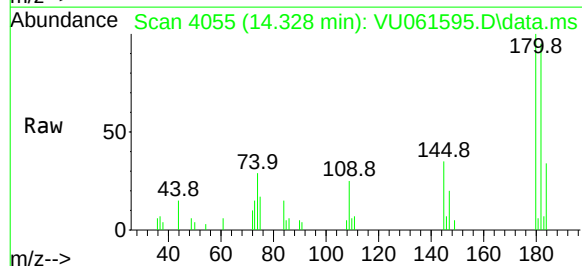
Tgt	Ion	128	Resp:	8747
Ion	Ratio	Lower	Upper	
128	100			
127	11.0	10.3	15.5	
129	10.3	8.6	12.8	





1,2,3-Trichlorobenzene
Concen: 0.774 ug/l
RT: 14.328 min Scan# 4055
Delta R.T. 0.010 min
Lab File: VU061595.D
Acq: 12 Nov 2024 08:30

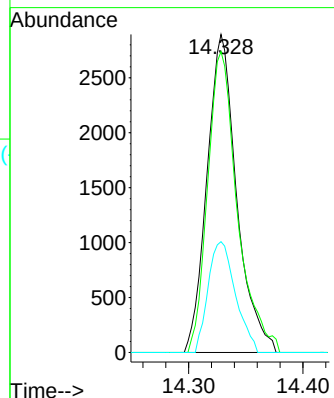
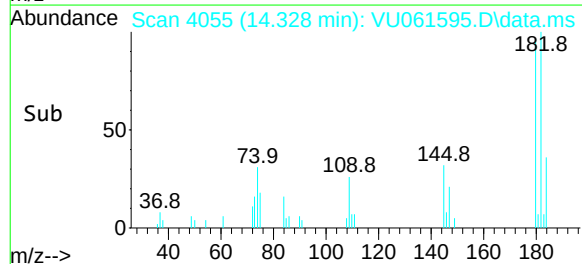
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC0.5



Tgt Ion:	180	Resp:	5231
Ion Ratio	Lower	Upper	
180	100		
182	94.3	77.9	116.9
145	32.0	25.9	38.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061596.D
 Acq On : 12 Nov 2024 09:32
 Operator : MD/SY
 Sample : VSTDICC001
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:41:08 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.107	96	47781	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	15751	0.950	ug/l	0.00
Spiked Amount	1.000		Recovery	=	95.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	15152	0.918	ug/l	0.00
Spiked Amount	1.000		Recovery	=	92.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.384	85	11397	0.928	ug/l	99
3) Chloromethane	1.515	50	11026	0.939	ug/l	97
4) Vinyl Chloride	1.599	62	12157	0.920	ug/l	93
5) Bromomethane	1.853	94	7651	0.917	ug/l	98
6) Chloroethane	1.930	64	9932	0.929	ug/l	99
7) Trichlorofluoromethane	2.133	101	17434	0.922	ug/l	99
8) 1,1,2-Trichloro-1,2,2-...	2.573	101	9412	0.930	ug/l	97
9) 1,1-Dichloroethene	2.573	96	9967	0.940	ug/l	96
10) Iodomethane	2.715	142	6330	1.201	ug/l	97
11) Allyl Chloride	2.917	41	10878	0.886	ug/l	96
12) Acrylonitrile	3.338	53	3571m	1.702	ug/l	
13) Acetone	2.647	43	15051	5.140	ug/l	99
14) Carbon Disulfide	2.789	76	31986	0.933	ug/l	100
15) Methylene Chloride	3.039	84	12168	0.950	ug/l	97
16) trans-1,2-Dichloroethene	3.348	96	11388	0.924	ug/l	93
17) 1,1-Dichloroethane	3.863	63	20647	0.940	ug/l	99
18) 2-Butanone	4.731	43	16588	4.885	ug/l	93
19) Cyclohexane	5.377	56	15902m	0.892	ug/l	
20) Methylcyclohexane	6.753	83	16822	0.841	ug/l	98
21) 2,2-Dichloropropane	4.654	77	15865	0.898	ug/l	98
22) cis-1,2-Dichloroethene	4.666	96	11517	0.857	ug/l	90
23) Diethyl Ether	2.371	59	7476	0.946	ug/l	98
24) tert-Butyl Alcohol	3.242	59	7258m	9.003	ug/l	
25) Methyl tert-Butyl Ether	3.355	73	23228	0.893	ug/l	97
26) Bromochloromethane	4.972	128	5378	0.908	ug/l	97
27) Chloroform	5.081	83	21486	0.922	ug/l	100
28) 1,1,1-Trichloroethane	5.309	97	17626	0.915	ug/l	99
29) 1,1-Dichloropropene	5.522	75	15259	0.882	ug/l	99
30) Carbon Tetrachloride	5.515	117	14465	0.876	ug/l	98
31) Isopropyl Ether	3.985	45	26050	0.891	ug/l	100
32) Ethyl-t-butyl ether	4.490	59	24465	0.875	ug/l	99
33) Tert-Amyl methyl ether	5.933	73	21217	0.840	ug/l	99
34) Propionitrile	4.827	54	3622m	4.564	ug/l	
35) Benzene	5.769	78	47730	0.926	ug/l	100
36) 1,2-Dichloroethane	5.792	62	13235	0.924	ug/l	96
37) Trichloroethene	6.538	130	13025	0.954	ug/l	94
38) 1,2-Dichloropropane	6.782	63	11386	0.879	ug/l	99
39) Methacrylonitrile	4.998	41	2418	0.851	ug/l	# 71
40) Methyl acrylate	4.875	55	4692m	0.913	ug/l	
41) Tetrahydrofuran	5.071	42	2899	1.807	ug/l	# 86
42) 1-Chlorobutane	5.451	56	18424	0.853	ug/l	98
43) Dibromomethane	6.914	93	6285	0.917	ug/l	92
44) Bromodichloromethane	7.097	83	13419	0.867	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061596.D
 Acq On : 12 Nov 2024 09:32
 Operator : MD/SY
 Sample : VSTDICC001
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:41:08 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.788	43	27784	4.356	ug/l	98
46) t-1,4-Dichloro-2-butene	10.820	75	6585m	1.867	ug/l	
47) Methyl methacrylate	6.965	69	8731	1.604	ug/l	91
48) Ethyl methacrylate	8.332	69	8893	0.804	ug/l	95
49) Toluene	7.965	92	28084	0.892	ug/l	98
50) t-1,3-Dichloropropene	8.210	75	11637	0.840	ug/l	98
51) cis-1,3-Dichloropropene	7.602	75	15113	0.850	ug/l	97
52) 1,1,2-Trichloroethane	8.393	97	8379	0.891	ug/l	94
53) 1,3-Dichloropropane	8.570	76	14619	0.911	ug/l	99
54) 2-Hexanone	8.685	43	23641	4.350	ug/l	98
55) Dibromochloromethane	8.804	129	8771	0.862	ug/l	97
56) 1,2-Dibromoethane	8.917	107	7832	0.887	ug/l	100
58) Tetrachloroethene	8.547	164	11373	0.926	ug/l	98
59) Chlorobenzene	9.444	112	30694	0.882	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.525	131	9928	0.865	ug/l	97
61) Pentachloroethane	11.422	117	6923	0.801	ug/l	97
62) Hexachloroethane	12.467	117	5845	0.976	ug/l	99
63) Ethyl Benzene	9.563	91	49794	0.850	ug/l	97
64) m/p-Xylenes	9.689	106	36695	1.627	ug/l	100
65) o-Xylene	10.094	106	18216	0.828	ug/l	98
66) Styrene	10.113	104	26880	0.934	ug/l	98
67) Bromoform	10.284	173	4269	0.809	ug/l #	99
69) Isopropylbenzene	10.476	105	42818	0.832	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.775	83	10123	0.875	ug/l	98
71) 1,2,3-Trichloropropane	10.820	75	8750m	0.928	ug/l	
72) Bromobenzene	10.779	156	12198	0.894	ug/l	87
73) n-propylbenzene	10.901	120	11941	0.785	ug/l	93
74) 2-Chlorotoluene	10.981	126	11658	0.859	ug/l	99
75) 1,3,5-Trimethylbenzene	11.081	105	36860	0.791	ug/l	97
76) 4-Chlorotoluene	11.094	126	11134	0.798	ug/l	93
77) tert-Butylbenzene	11.412	119	36896	0.812	ug/l	98
78) 1,2,4-Trimethylbenzene	11.464	105	37299	0.908	ug/l	100
79) sec-Butylbenzene	11.637	105	48996	0.813	ug/l	98
80) Nitrobenzene	13.219	77	393m	6.108	ug/l	
81) p-Isopropyltoluene	11.785	119	37419	0.897	ug/l	98
82) 1,3-Dichlorobenzene	11.743	146	22590	0.856	ug/l	99
83) 1,4-Dichlorobenzene	11.833	146	22185	0.840	ug/l	96
84) n-Butylbenzene	12.203	91	35029	0.906	ug/l	98
85) 1,2-Dichlorobenzene	12.209	146	20984	0.843	ug/l	96
86) 1,2-Dibromo-3-Chloropr...	12.994	75	1133	0.984	ug/l	87
87) 1,2,4-Trichlorobenzene	13.836	180	10383	1.020	ug/l	96
88) Hexachlorobutadiene	14.013	225	7082	0.852	ug/l	98
89) Naphthalene	14.090	128	15413	1.089	ug/l	99
90) 1,2,3-Trichlorobenzene	14.325	180	9970	1.060	ug/l	98

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

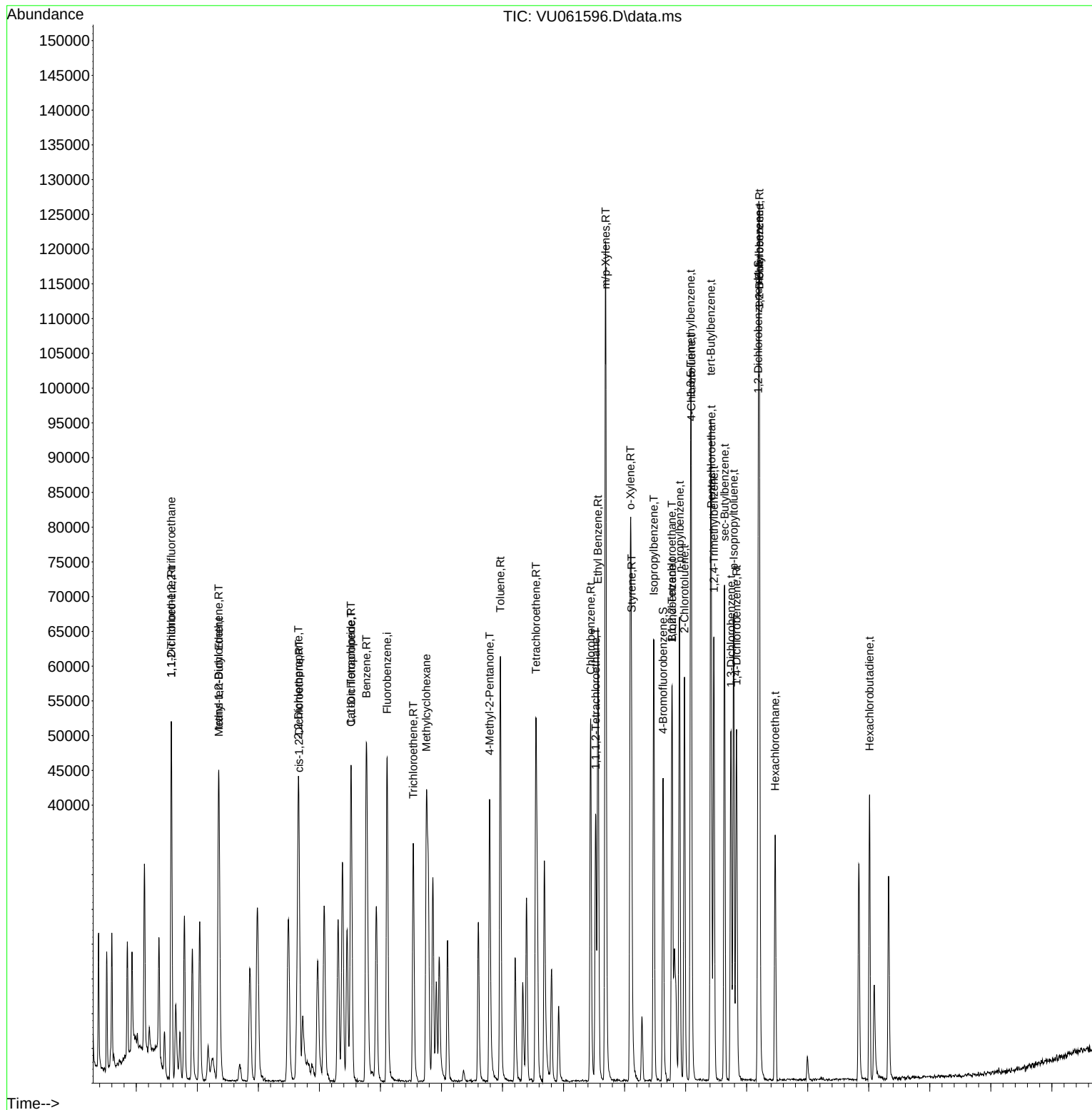
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Data File : VU061596.D
Acq On : 12 Nov 2024 09:32
Operator : MD/SY
Sample : VSTDIC001
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

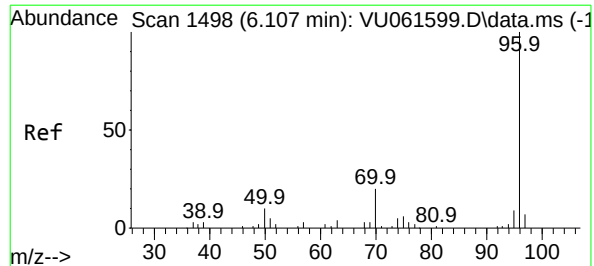
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:41:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 04:39:24 2024
Response via : Initial Calibration





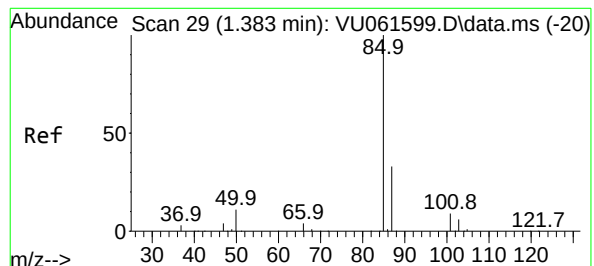
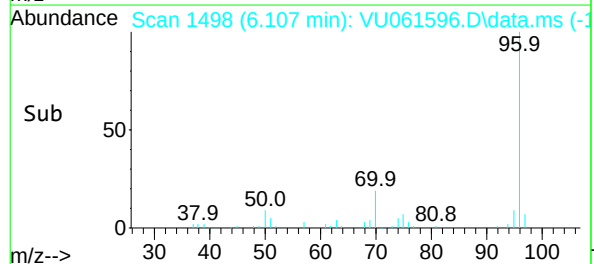
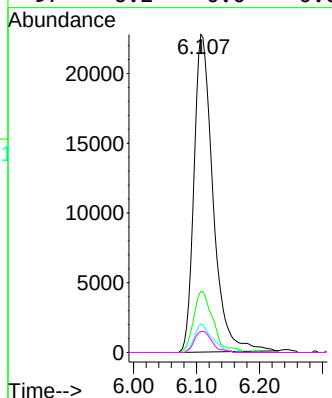
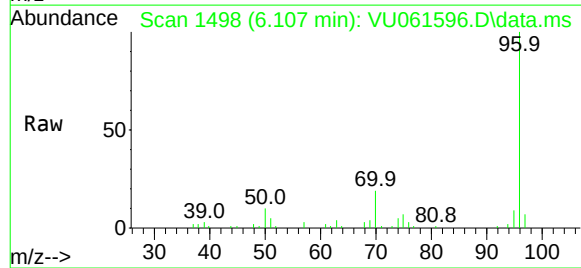
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 1498
Delta R.T. -0.000 min
Lab File: VU061596.D
Acq: 12 Nov 2024 09:32

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Tgt Ion	Ratio	Lower	Upper
96	100		
70	19.6	15.8	23.6
95	8.2	7.3	10.9
97	6.2	0.0	0.0

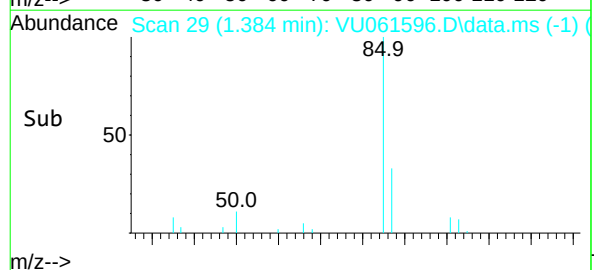
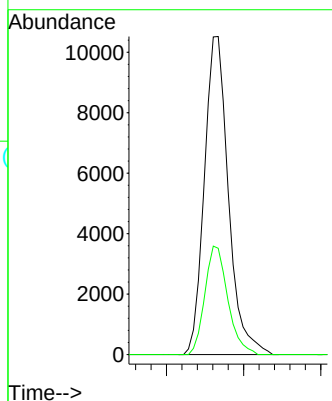
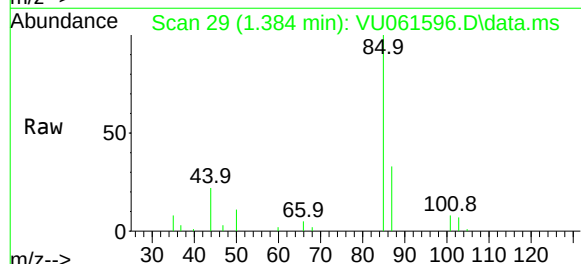
Manual Integrations
APPROVED

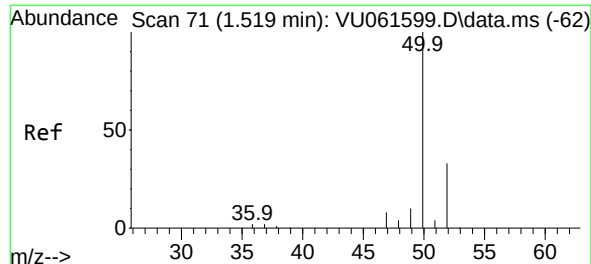
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#2
Dichlorodifluoromethane
Concen: 0.928 ug/l
RT: 1.384 min Scan# 29
Delta R.T. 0.000 min
Lab File: VU061596.D
Acq: 12 Nov 2024 09:32

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.4	49.2





#3

Chloromethane

Concen: 0.939 ug/l

RT: 1.515 min Scan# 70

Delta R.T. -0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 50 Resp: 11026

Ion Ratio Lower Upper

50 100

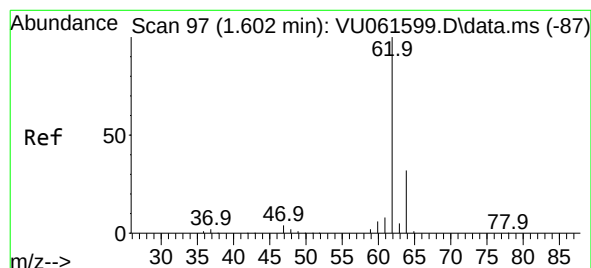
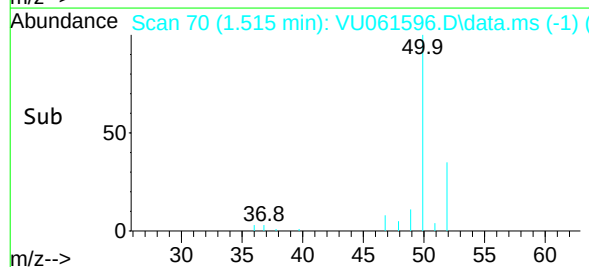
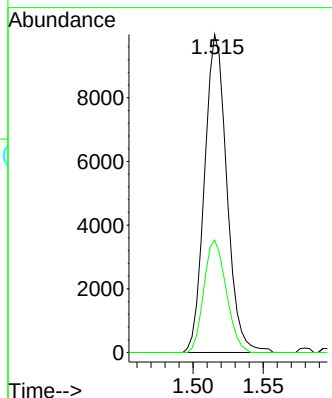
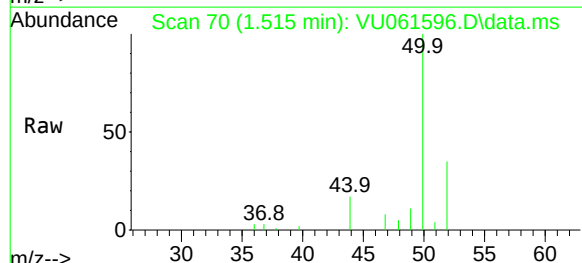
52 35.4 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 0.920 ug/l

RT: 1.599 min Scan# 96

Delta R.T. -0.003 min

Lab File: VU061596.D

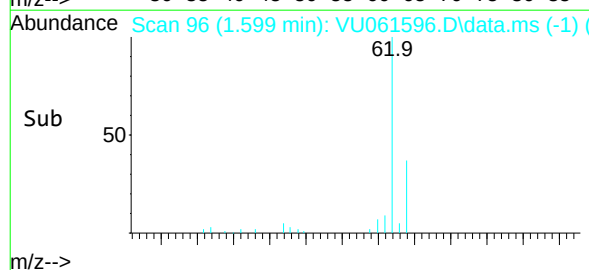
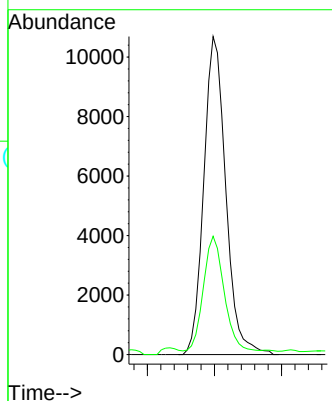
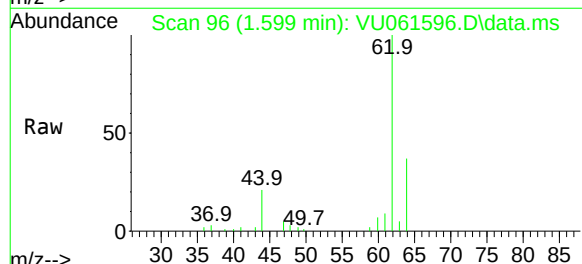
Acq: 12 Nov 2024 09:32

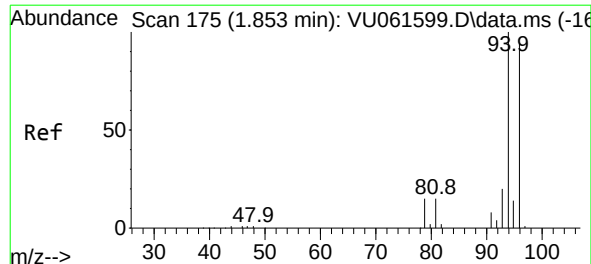
Tgt Ion: 62 Resp: 12157

Ion Ratio Lower Upper

62 100

64 36.2 25.6 38.4





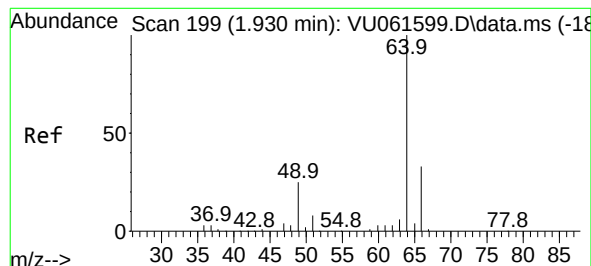
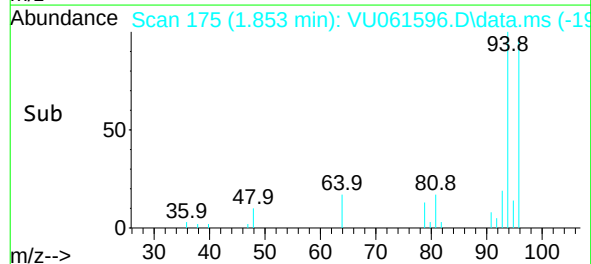
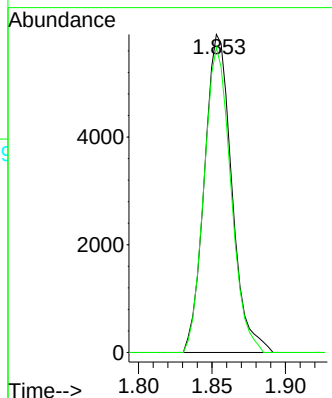
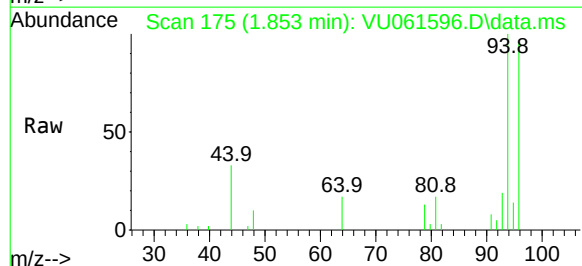
#5
Bromomethane
Concen: 0.917 ug/l
RT: 1.853 min Scan# 175
Delta R.T. 0.000 min
Lab File: VU061596.D
Acq: 12 Nov 2024 09:32

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 7651
Ion Ratio Lower Upper
94 100
96 95.9 75.2 112.8

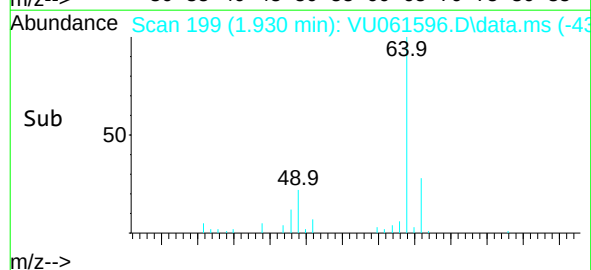
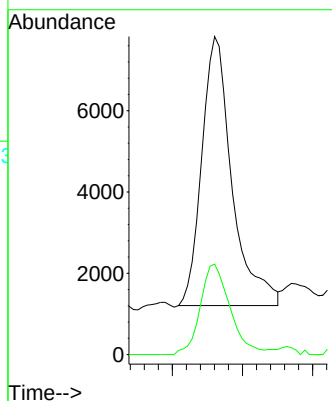
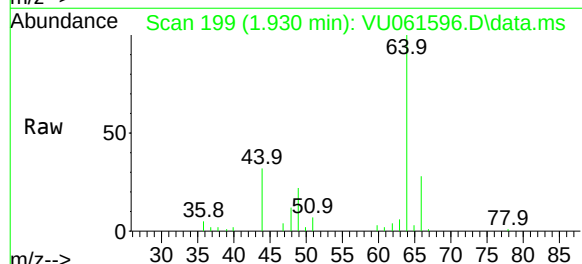
Manual Integrations
APPROVED

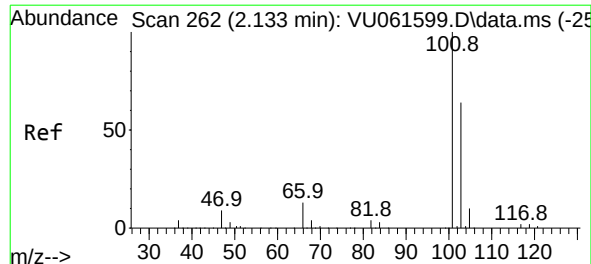
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#6
Chloroethane
Concen: 0.929 ug/l
RT: 1.930 min Scan# 199
Delta R.T. 0.000 min
Lab File: VU061596.D
Acq: 12 Nov 2024 09:32

Tgt Ion: 64 Resp: 9932
Ion Ratio Lower Upper
64 100
66 32.1 26.2 39.2





#7

Trichlorofluoromethane

Concen: 0.922 ug/l

RT: 2.133 min Scan# 262

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion:101 Resp: 17434

Ion Ratio Lower Upper

101 100

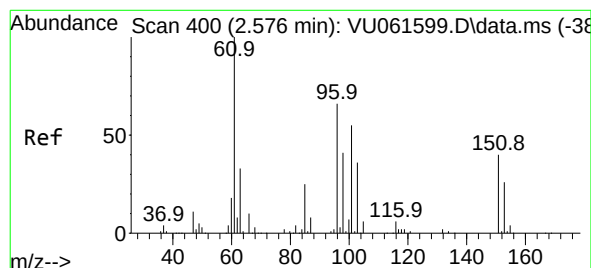
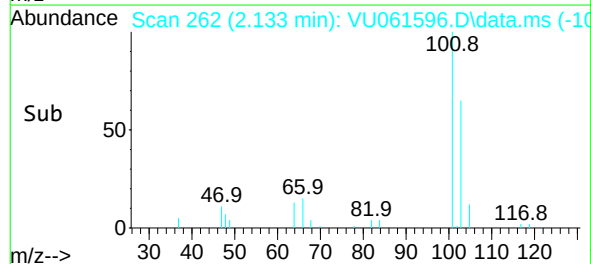
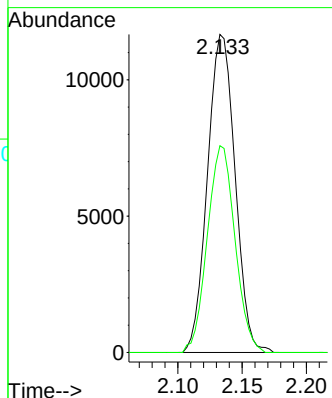
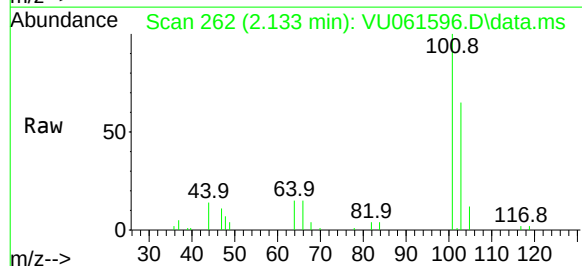
103 65.0 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.930 ug/l

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

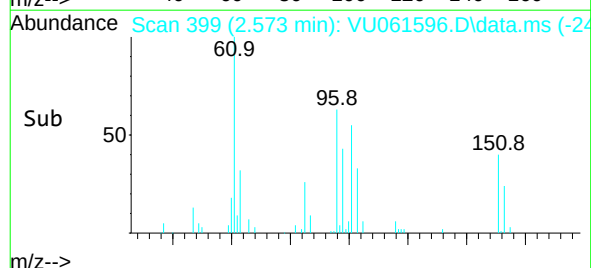
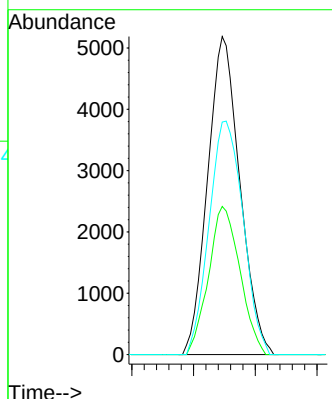
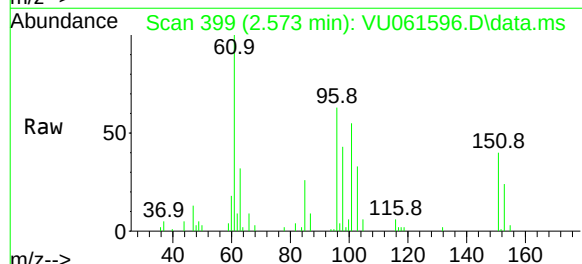
Tgt Ion:101 Resp: 9412

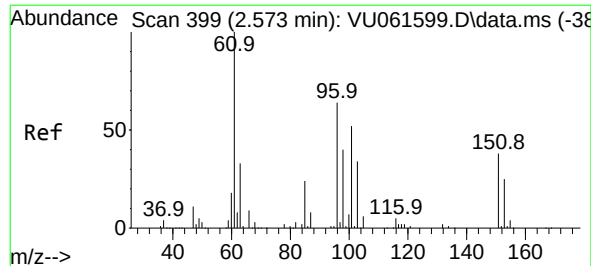
Ion Ratio Lower Upper

101 100

85 45.3 36.0 54.0

151 77.3 58.6 87.8





#9

1,1-Dichloroethene

Concen: 0.940 ug/l

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

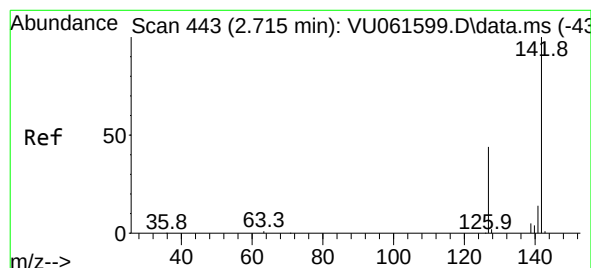
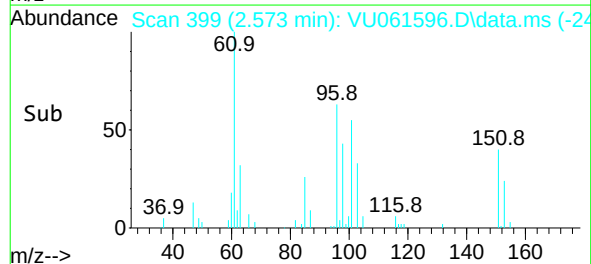
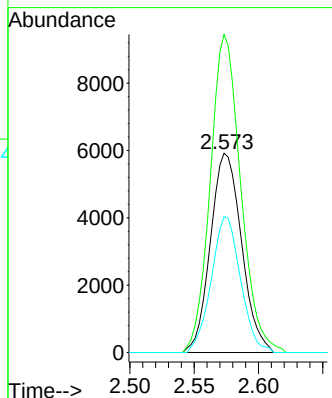
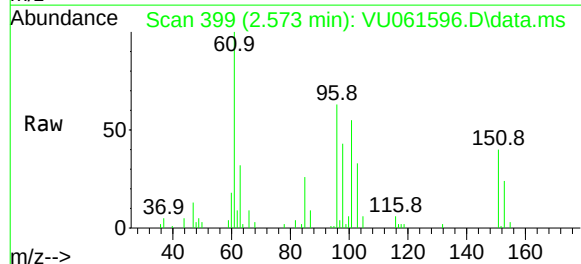
ClientSampleId :

VSTDICC001

Tgt	Ion:	96	Resp:	9967
Ion	Ratio	Lower	Upper	
96	100			
61	159.6	0.0	467.7	
98	68.2	0.0	125.4	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#10

Iodomethane

Concen: 1.201 ug/l

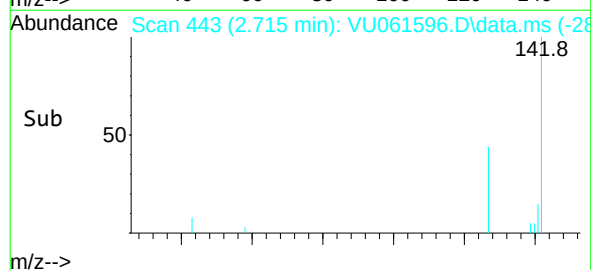
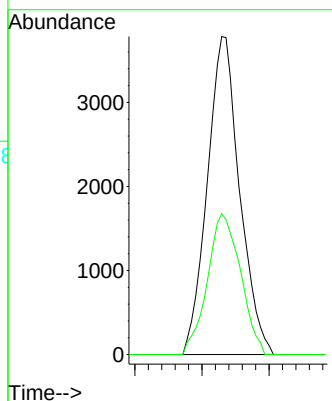
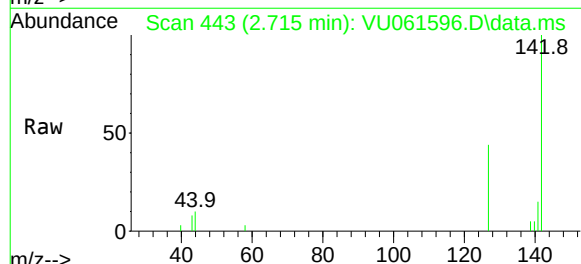
RT: 2.715 min Scan# 443

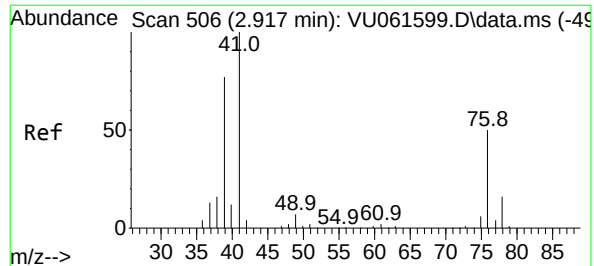
Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt	Ion:	142	Resp:	6330
Ion	Ratio	Lower	Upper	
142	100			
127	45.3	34.8	52.2	





#11

Allyl Chloride

Concen: 0.886 ug/l

RT: 2.917 min Scan# 506

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 41 Resp: 10878

Ion Ratio Lower Upper

41 100

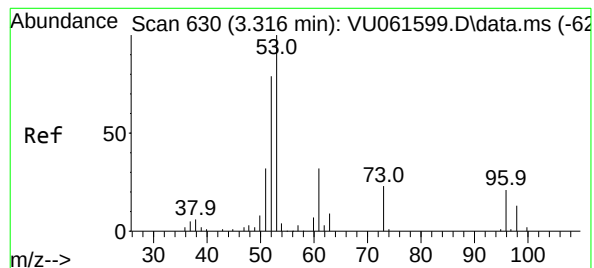
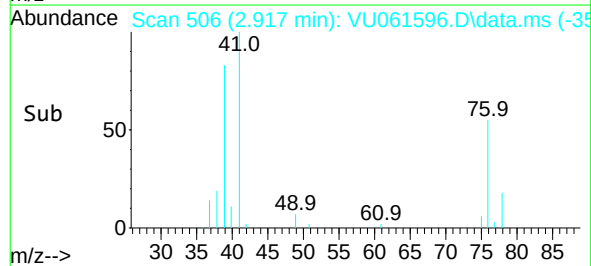
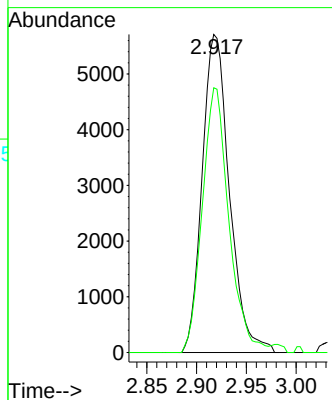
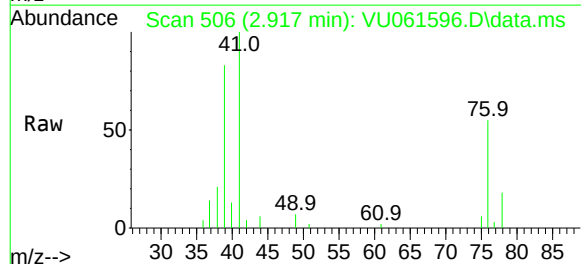
39 81.1 62.2 93.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#12

Acrylonitrile

Concen: 1.702 ug/l m

RT: 3.338 min Scan# 637

Delta R.T. 0.023 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

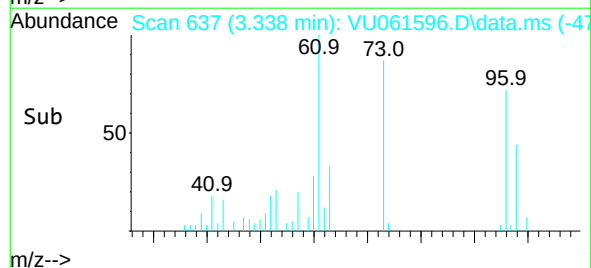
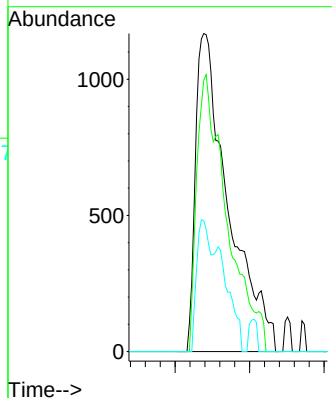
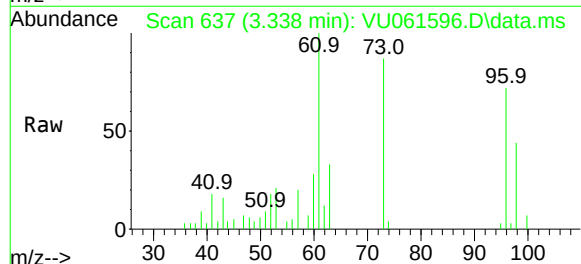
Tgt Ion: 53 Resp: 3571

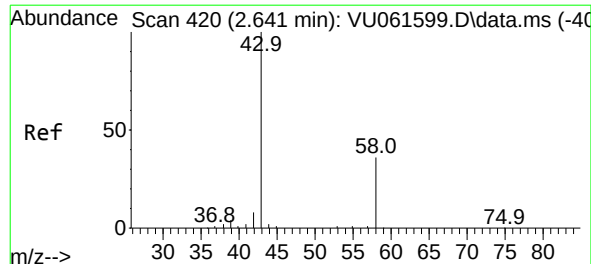
Ion Ratio Lower Upper

53 100

52 80.1 62.1 93.1

51 18.5 30.9 46.3#





#13

Acetone

Concen: 5.140 ug/l

RT: 2.647 min Scan# 420

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 15051

Ion Ratio Lower Upper

43 100

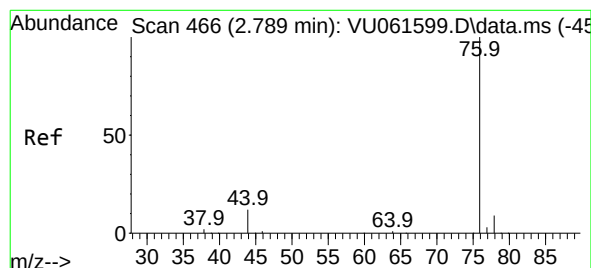
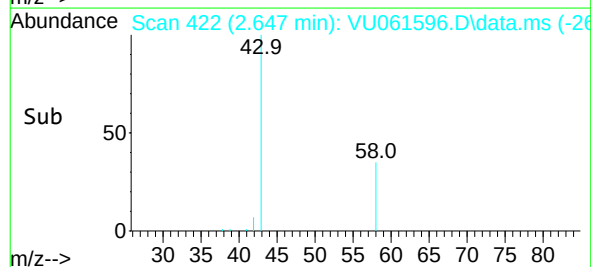
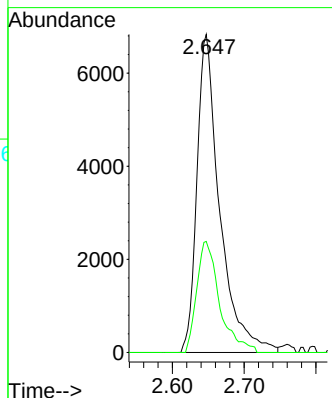
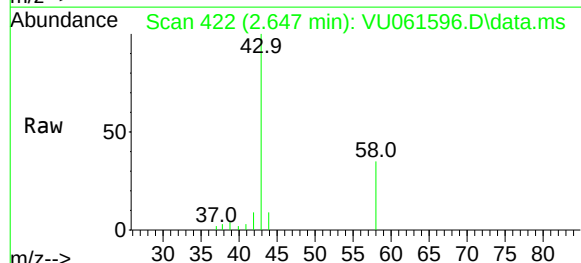
58 34.9 28.5 42.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#14

Carbon Disulfide

Concen: 0.933 ug/l

RT: 2.789 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU061596.D

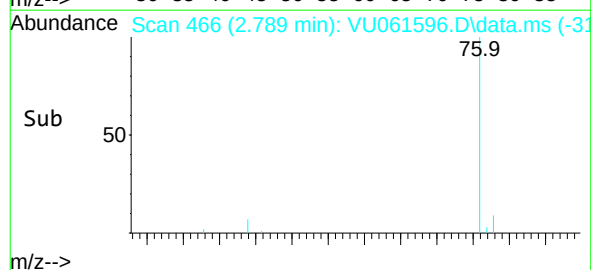
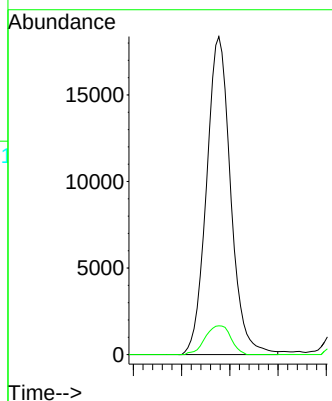
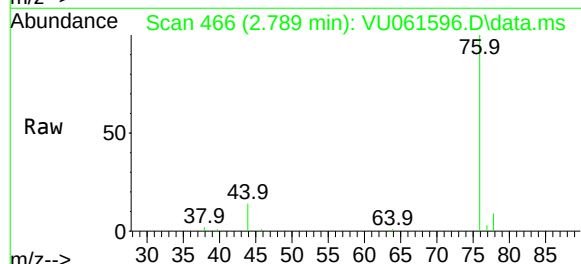
Acq: 12 Nov 2024 09:32

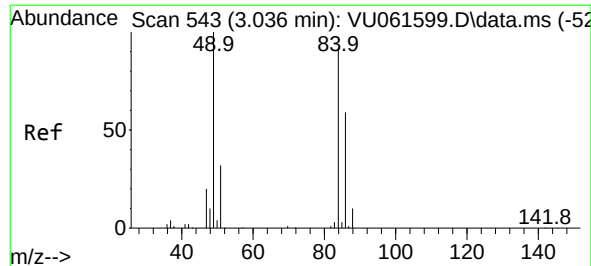
Tgt Ion: 76 Resp: 31986

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methylene Chloride

Concen: 0.950 ug/l

RT: 3.039 min Scan# 54

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 84 Resp: 12168

Ion Ratio Lower Upper

84 100

49 106.1 87.4 131.0

51 38.5 0.0 69.6

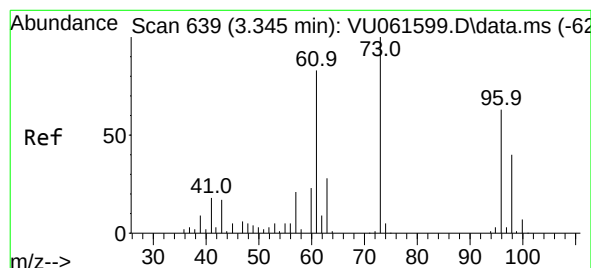
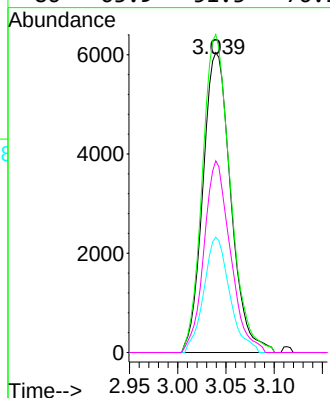
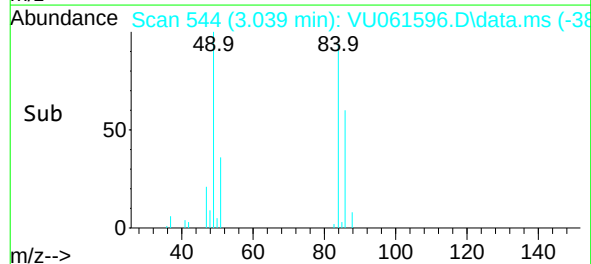
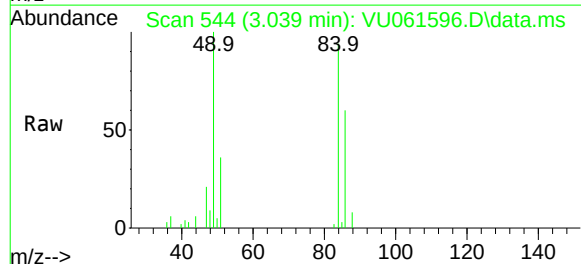
86 63.9 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#16

trans-1,2-Dichloroethene

Concen: 0.924 ug/l

RT: 3.348 min Scan# 640

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

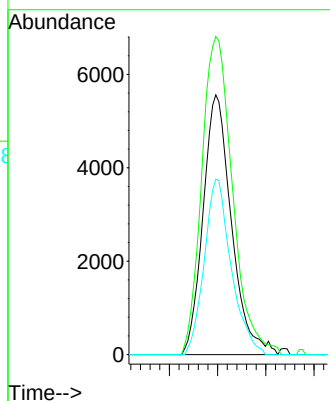
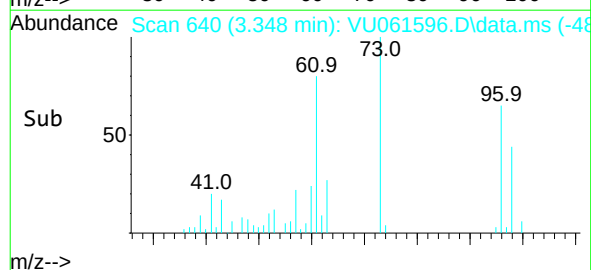
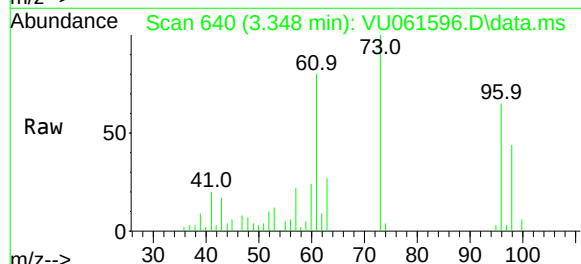
Tgt Ion: 96 Resp: 11388

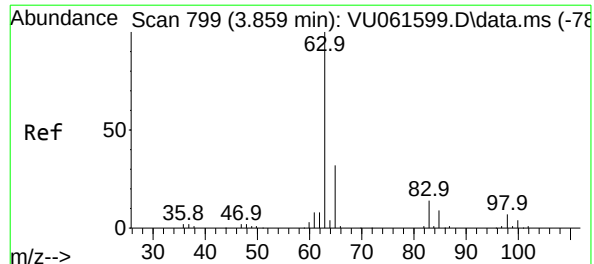
Ion Ratio Lower Upper

96 100

61 122.5 105.0 157.4

98 67.6 50.4 75.6





#17

1,1-Dichloroethane

Concen: 0.940 ug/l

RT: 3.863 min Scan# 80

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

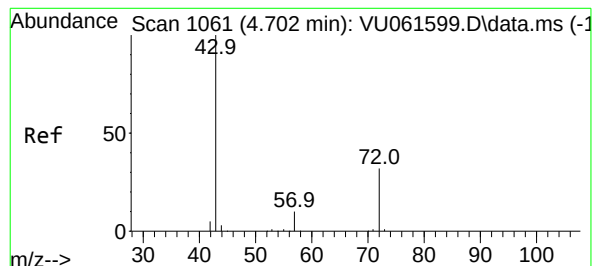
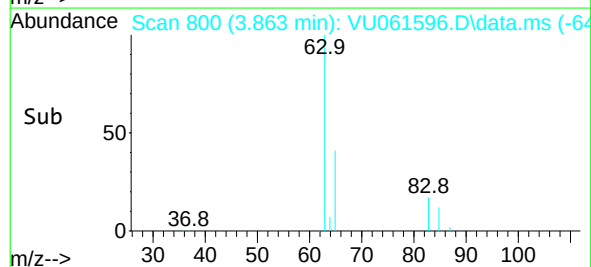
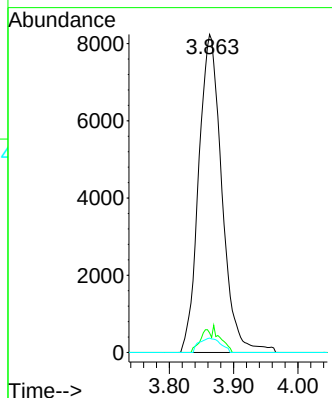
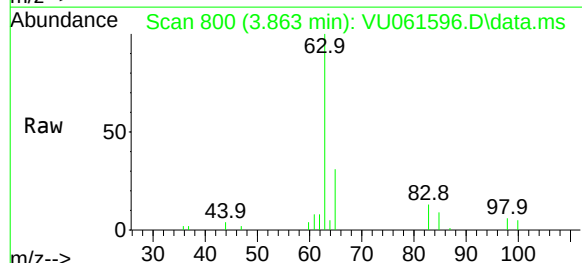
ClientSampleId :

VSTDICC001

Tgt	Ion:	63	Resp:	20647
	Ion	Ratio	Lower	Upper
	63	100		
	98	6.2	3.4	10.2
	100	4.5	2.2	6.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#18

2-Butanone

Concen: 4.885 ug/l

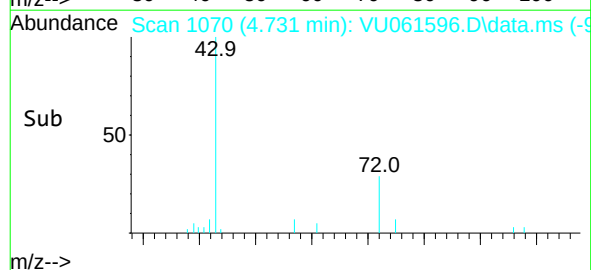
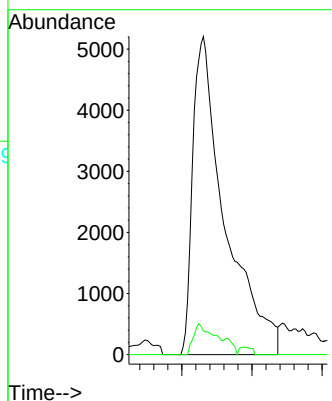
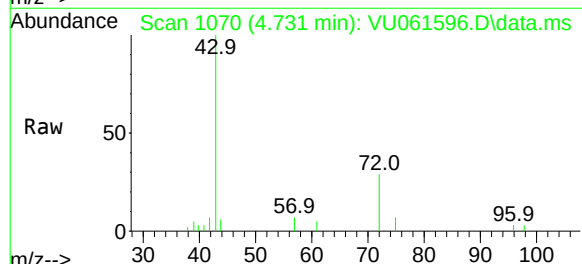
RT: 4.731 min Scan# 1070

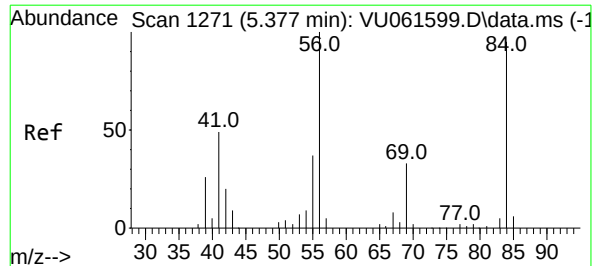
Delta R.T. 0.029 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt	Ion:	43	Resp:	16588
	Ion	Ratio	Lower	Upper
	43	100		
	57	7.4	0.0	20.0





#19

Cyclohexane

Concen: 0.892 ug/l m

RT: 5.377 min Scan# 1271

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 56 Resp: 15902

Ion Ratio Lower Upper

56 100

69 31.1 26.3 39.5

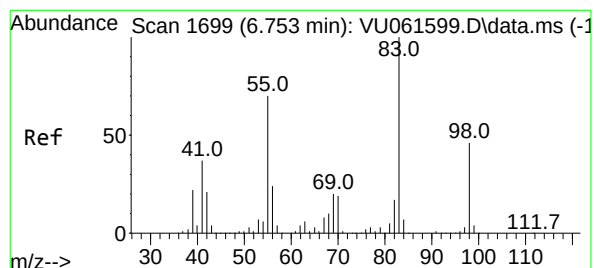
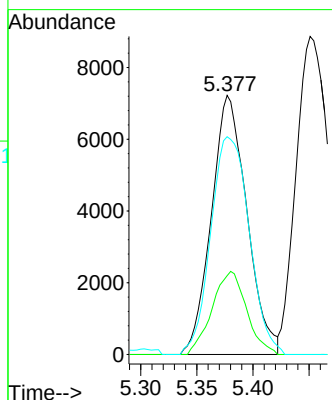
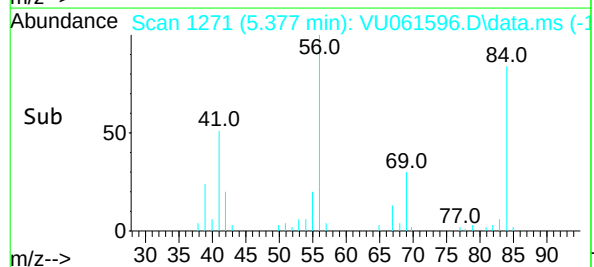
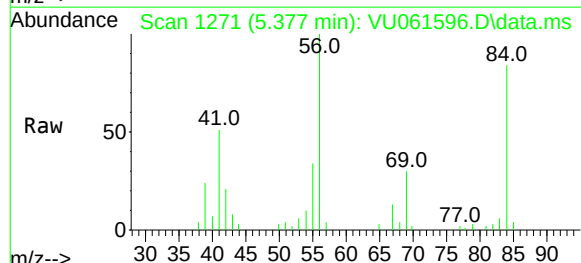
84 90.9 73.4 110.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#20

Methylcyclohexane

Concen: 0.841 ug/l

RT: 6.753 min Scan# 1699

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

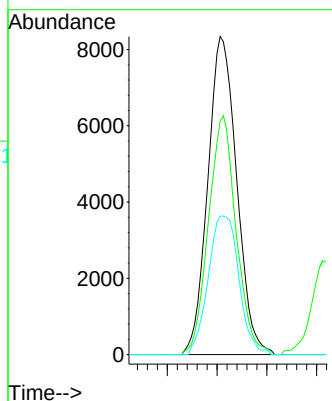
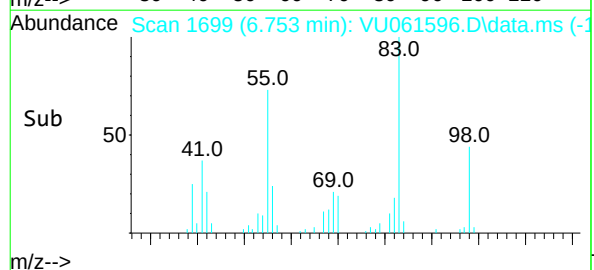
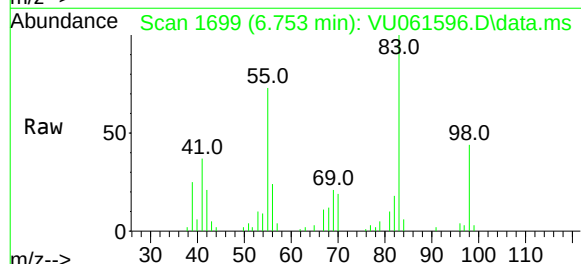
Tgt Ion: 83 Resp: 16822

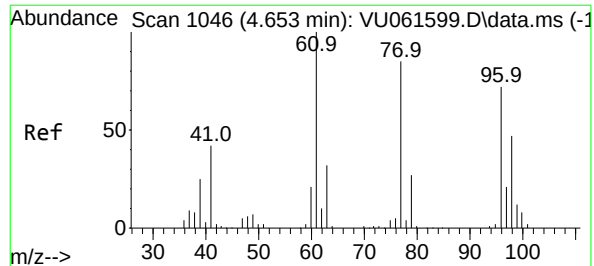
Ion Ratio Lower Upper

83 100

55 71.8 55.5 83.3

98 46.2 36.8 55.2





#21

2,2-Dichloropropane

Concen: 0.898 ug/l

RT: 4.654 min Scan# 10

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 77 Resp: 15865

Ion Ratio Lower Upper

77 100

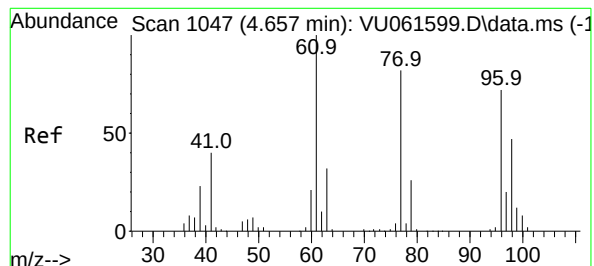
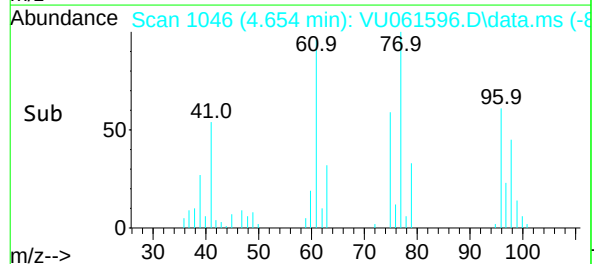
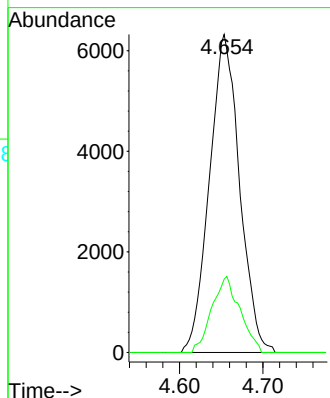
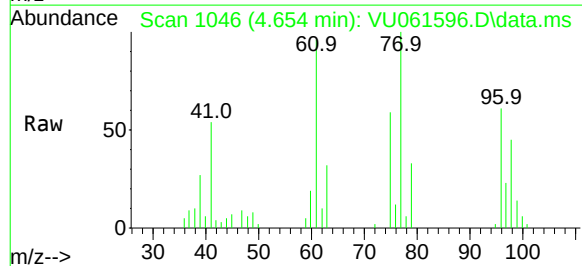
97 22.3 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#22

cis-1,2-Dichloroethene

Concen: 0.857 ug/l

RT: 4.666 min Scan# 1050

Delta R.T. 0.010 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

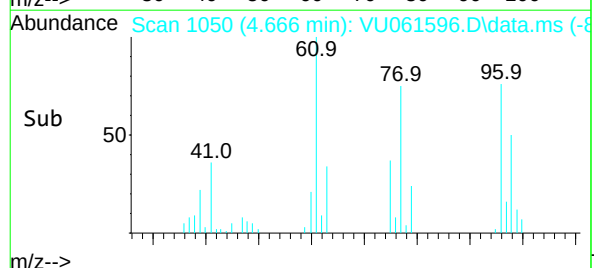
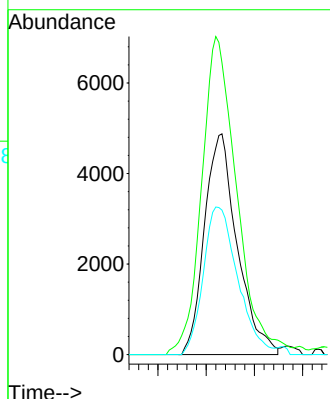
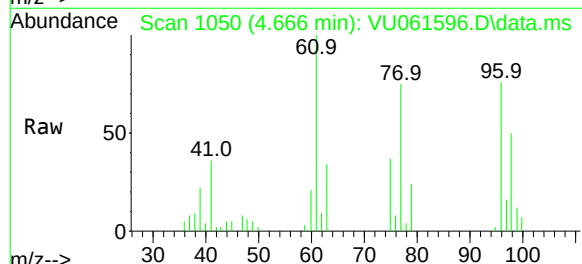
Tgt Ion: 96 Resp: 11517

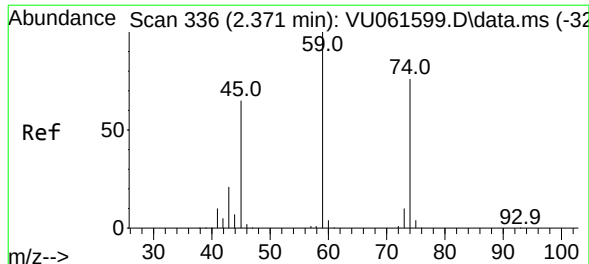
Ion Ratio Lower Upper

96 100

61 153.8 0.0 349.5

98 70.0 32.5 97.5





#23

Diethyl Ether

Concen: 0.946 ug/l

RT: 2.371 min Scan# 336

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

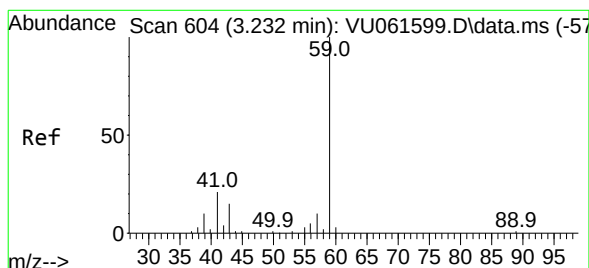
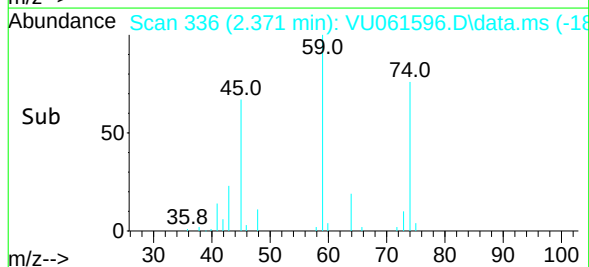
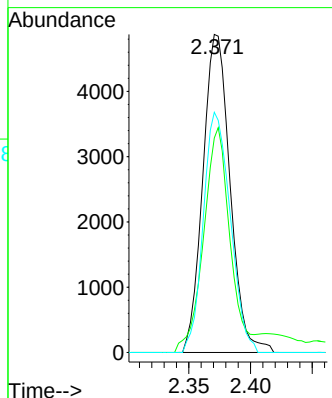
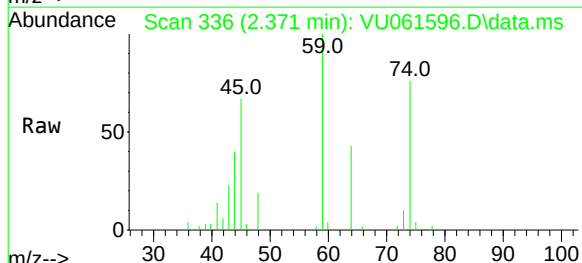
ClientSampleId :

VSTDICC001

Tgt Ion:	59	Resp:	7476
Ion	Ratio	Lower	Upper
59	100		
45	68.3	53.8	80.6
74	74.9	62.1	93.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#24

tert-Butyl Alcohol

Concen: 9.003 ug/l m

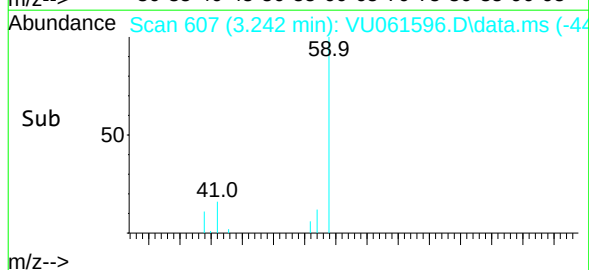
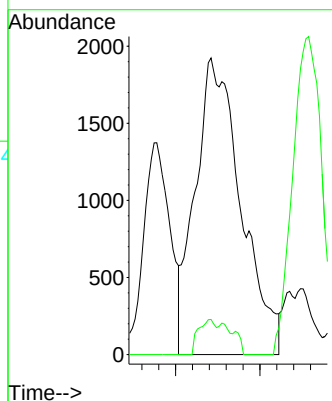
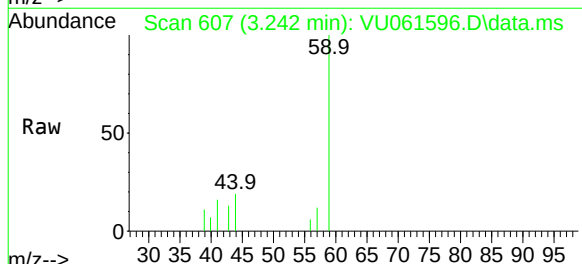
RT: 3.242 min Scan# 607

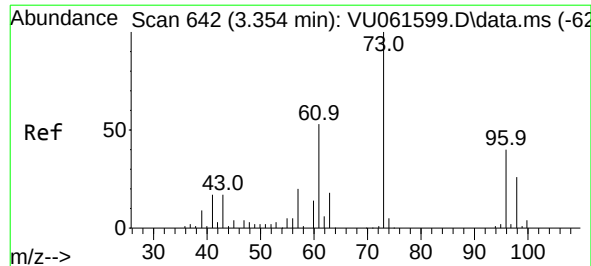
Delta R.T. 0.010 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion:	59	Resp:	7258
Ion	Ratio	Lower	Upper
59	100		
57	4.5	7.9	11.9





#25

Methyl tert-Butyl Ether

Concen: 0.893 ug/l

RT: 3.355 min Scan# 64

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 23228

Ion Ratio Lower Upper

73 100

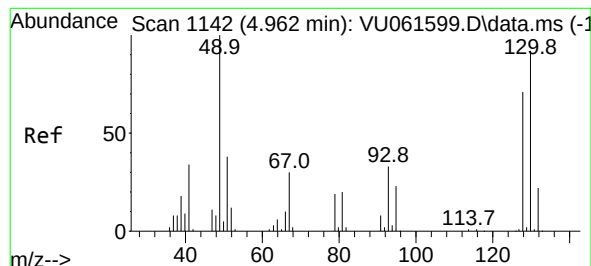
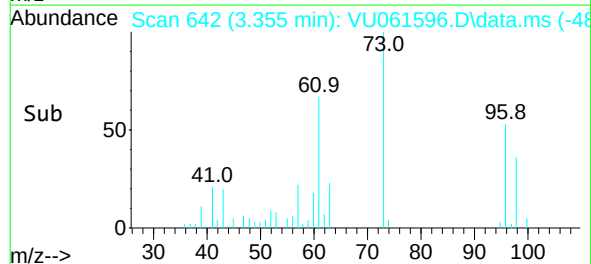
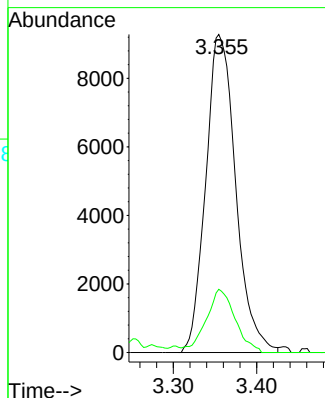
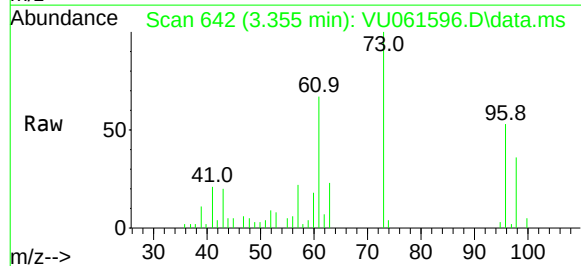
43 19.2 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#26

Bromochloromethane

Concen: 0.908 ug/l

RT: 4.972 min Scan# 1145

Delta R.T. 0.010 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

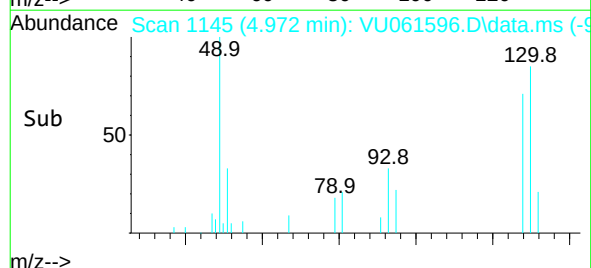
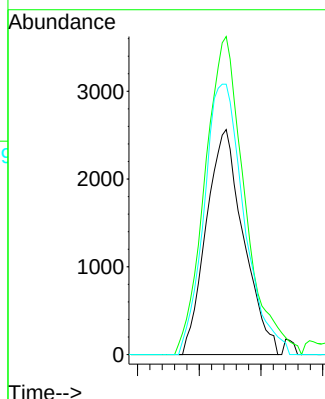
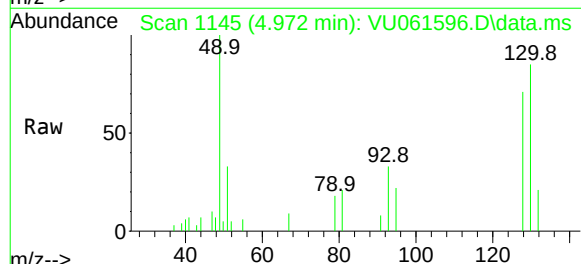
Tgt Ion:128 Resp: 5378

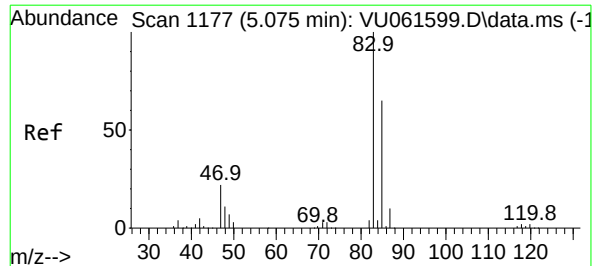
Ion Ratio Lower Upper

128 100

49 150.6 0.0 288.8

130 129.2 103.6 155.4





#27

Chloroform

Concen: 0.922 ug/l

RT: 5.081 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 21486

Ion Ratio Lower Upper

83 100

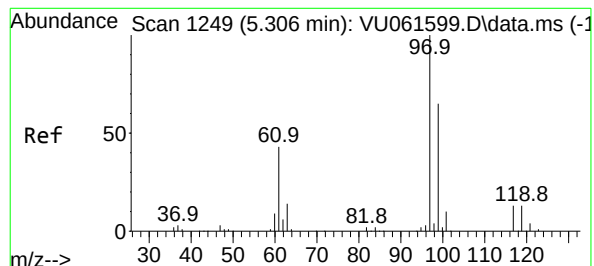
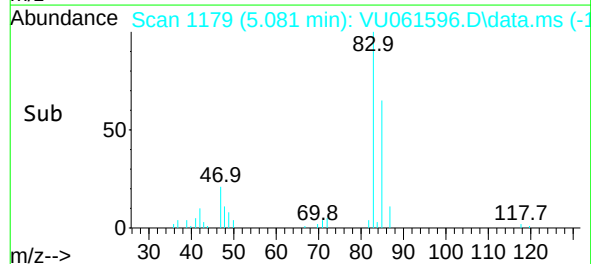
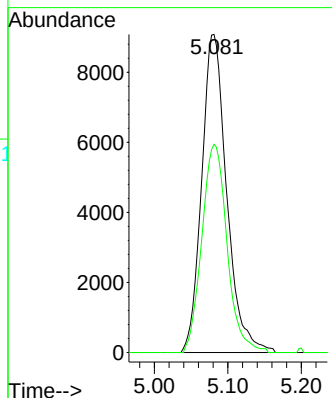
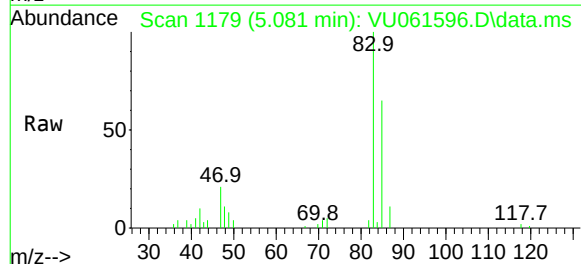
85 65.4 0.0 130.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#28

1,1,1-Trichloroethane

Concen: 0.915 ug/l

RT: 5.309 min Scan# 1250

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

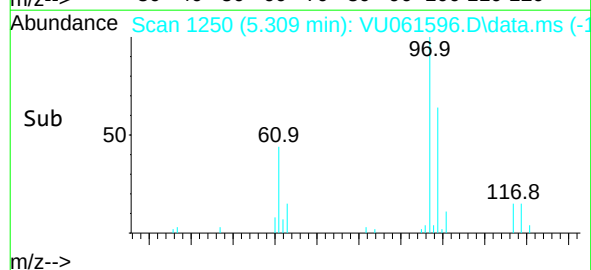
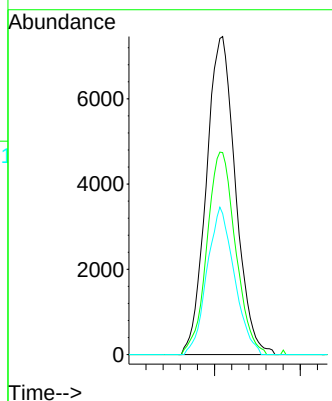
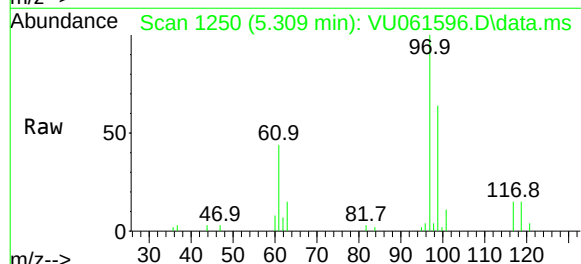
Tgt Ion: 97 Resp: 17626

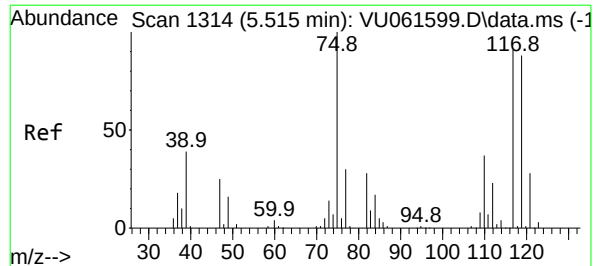
Ion Ratio Lower Upper

97 100

99 62.4 32.1 96.5

61 43.4 21.7 65.1





#29

1,1-Dichloropropene

Concen: 0.882 ug/l

RT: 5.522 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 15259

Ion Ratio Lower Upper

75 100

110 35.5 17.9 53.8

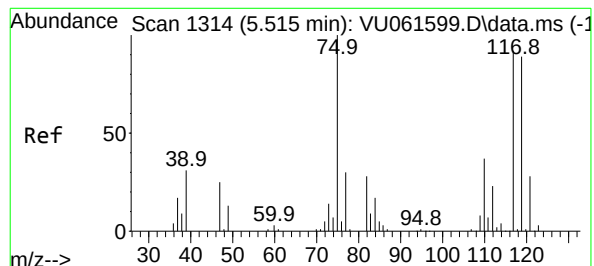
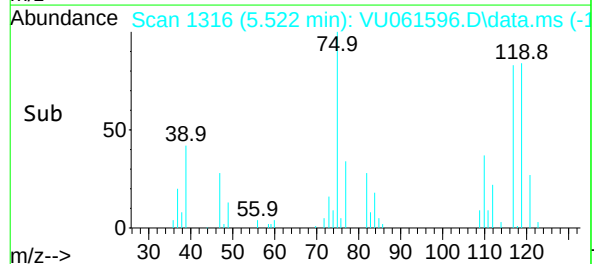
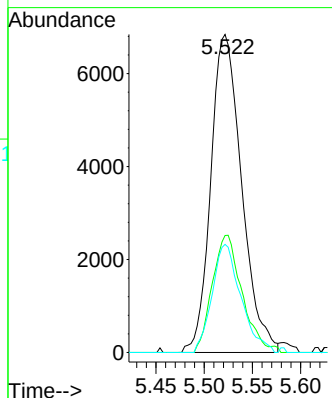
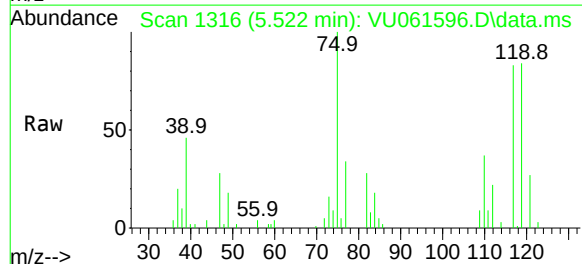
77 31.6 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 0.876 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

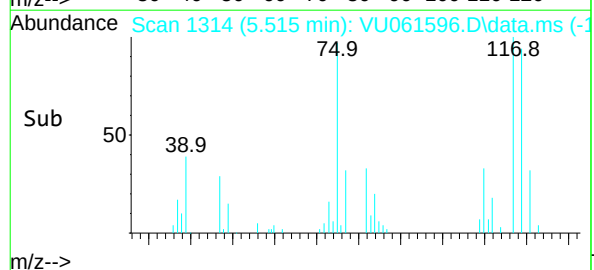
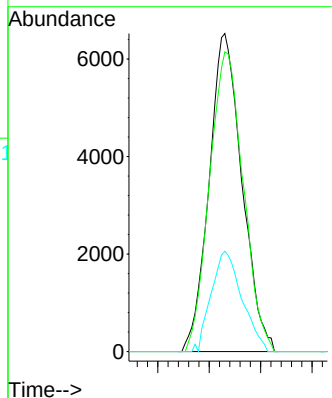
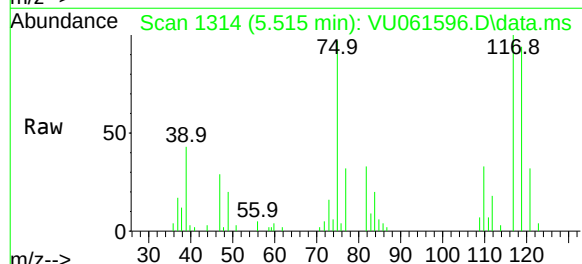
Tgt Ion:117 Resp: 14465

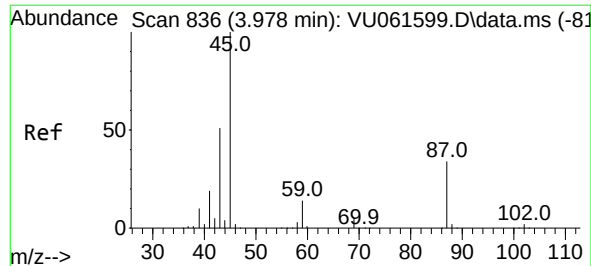
Ion Ratio Lower Upper

117 100

119 94.2 77.4 116.0

121 31.5 24.5 36.7





#31

Isopropyl Ether

Concen: 0.891 ug/l

RT: 3.985 min Scan# 836

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 45 Resp: 26050

Ion Ratio Lower Upper

45 100

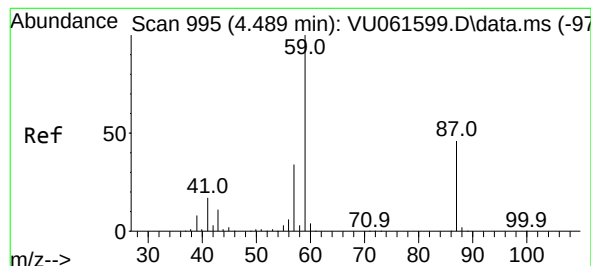
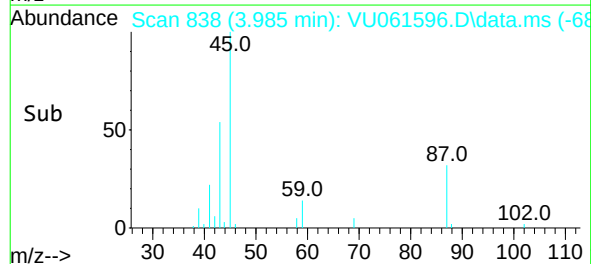
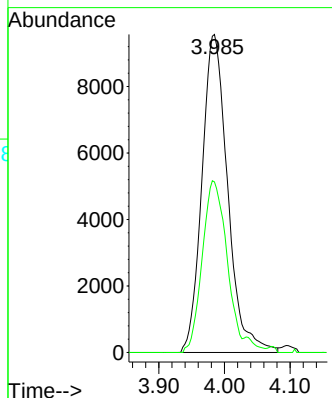
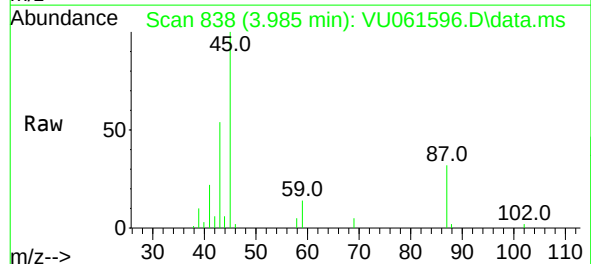
43 51.4 25.8 77.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#32

Ethyl-t-butyl ether

Concen: 0.875 ug/l

RT: 4.490 min Scan# 995

Delta R.T. 0.000 min

Lab File: VU061596.D

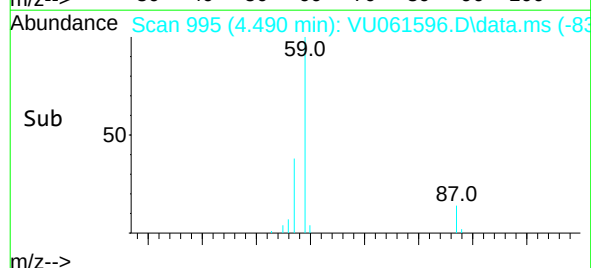
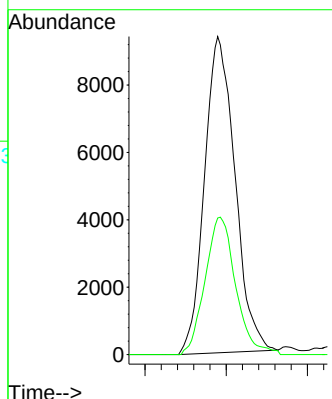
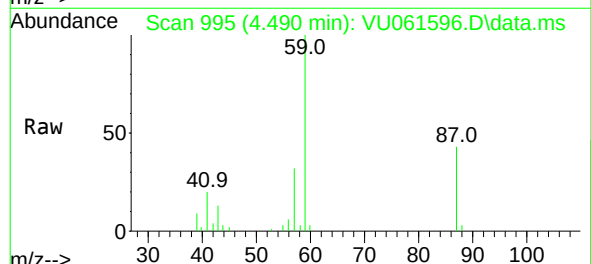
Acq: 12 Nov 2024 09:32

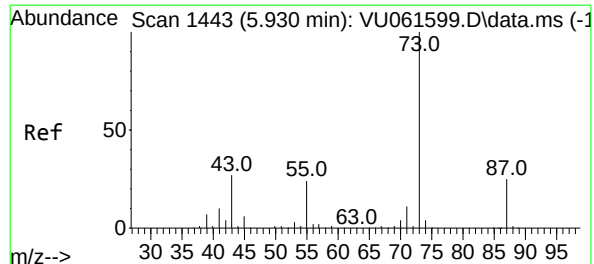
Tgt Ion: 59 Resp: 24465

Ion Ratio Lower Upper

59 100

87 43.6 35.5 53.3





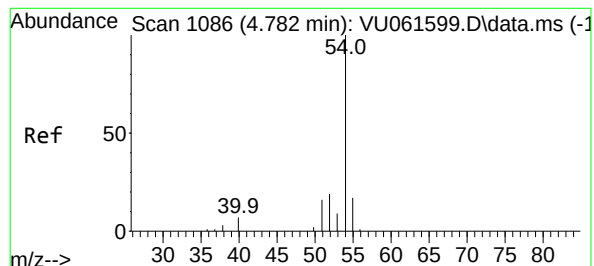
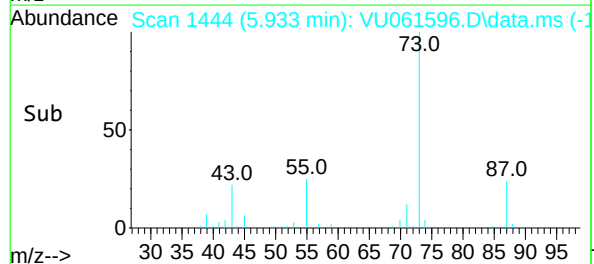
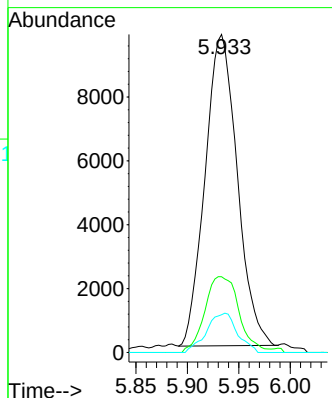
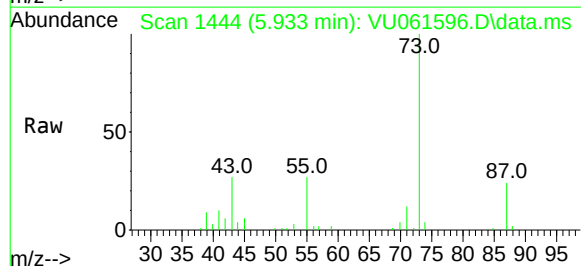
Tert-Amyl methyl ether
Concen: 0.840 ug/l
RT: 5.933 min Scan# 1443
Delta R.T. 0.003 min
Lab File: VU061596.D
Acq: 12 Nov 2024 09:32

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC001

Tgt Ion	73	87	71
Ratio	100	24.5	12.0
Lower		19.8	9.0
Upper		29.6	13.4

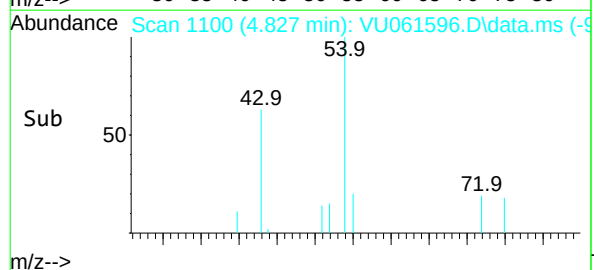
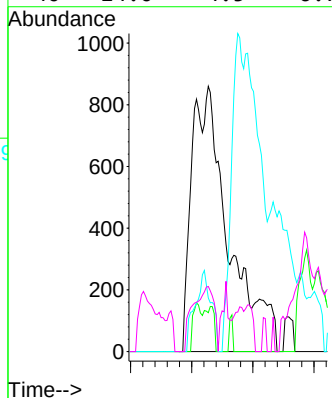
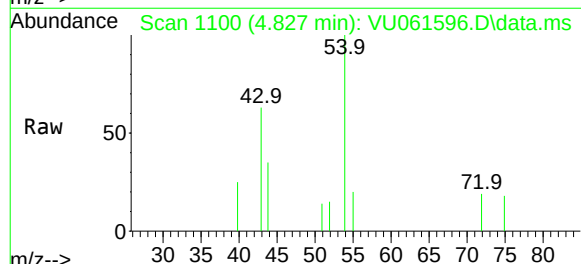
Manual Integrations
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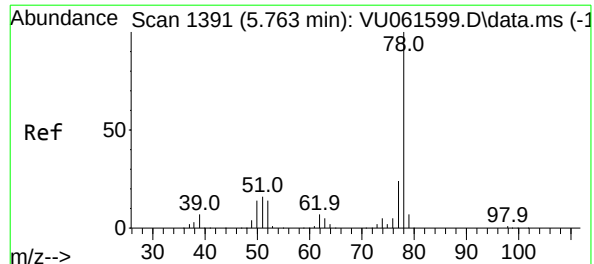
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



Propionitrile
Concen: 4.564 ug/l m
RT: 4.827 min Scan# 1100
Delta R.T. 0.045 min
Lab File: VU061596.D
Acq: 12 Nov 2024 09:32

Tgt Ion	54	52	55	40
Ratio	100	4.3	13.4	14.0
Lower		15.8	10.7	4.5
Upper		23.8#	16.1	6.7#





#35

Benzene

Concen: 0.926 ug/l

RT: 5.769 min Scan# 13

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 47730

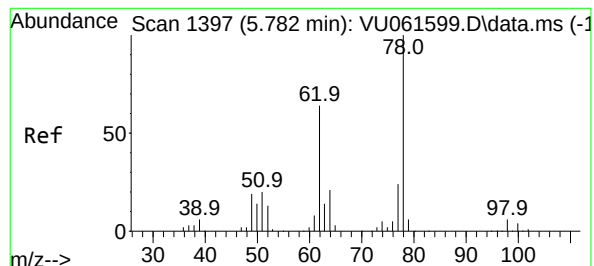
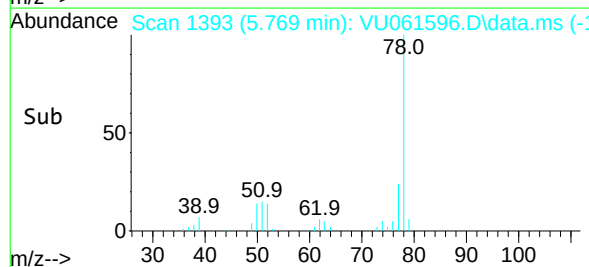
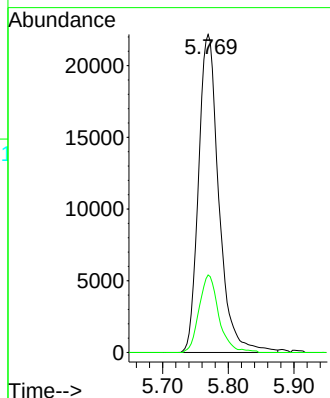
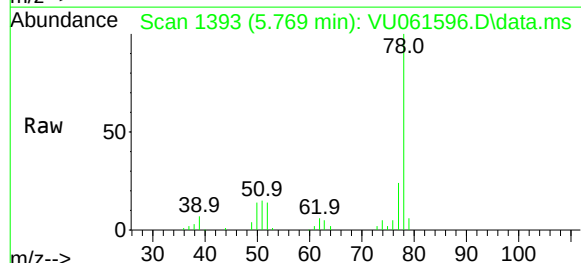
Ion Ratio Lower Upper

78 100

77 24.4 19.6 29.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#36

1,2-Dichloroethane

Concen: 0.924 ug/l

RT: 5.792 min Scan# 1400

Delta R.T. 0.010 min

Lab File: VU061596.D

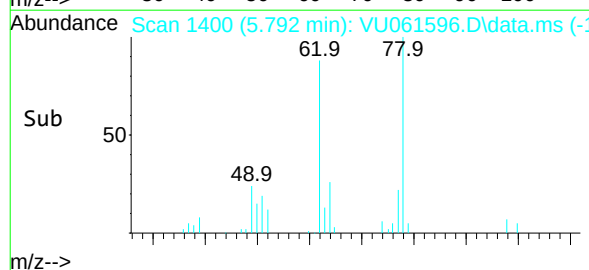
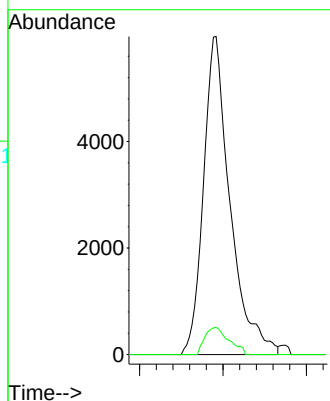
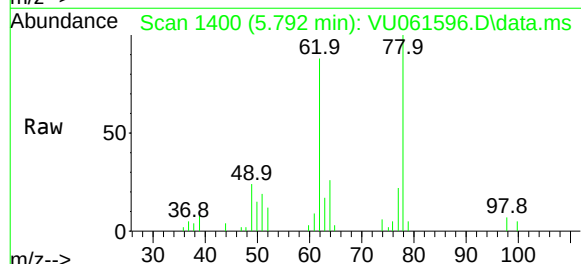
Acq: 12 Nov 2024 09:32

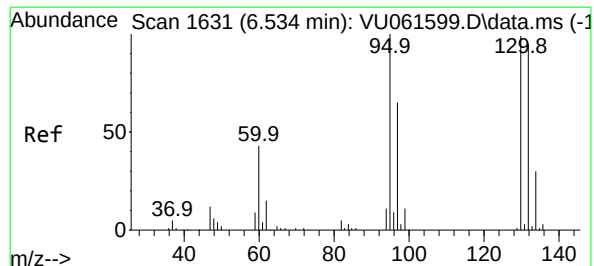
Tgt Ion: 62 Resp: 13235

Ion Ratio Lower Upper

62 100

98 7.7 7.4 11.0





#37

Trichloroethene

Concen: 0.954 ug/l

RT: 6.538 min Scan# 16

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 130 Resp: 13025

Ion Ratio Lower Upper

130 100

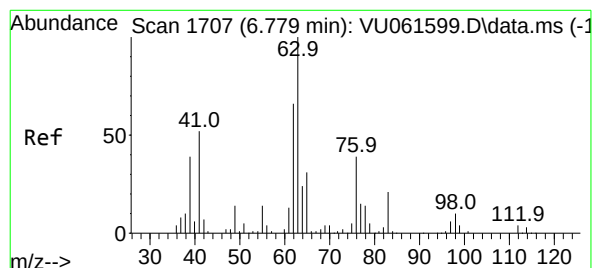
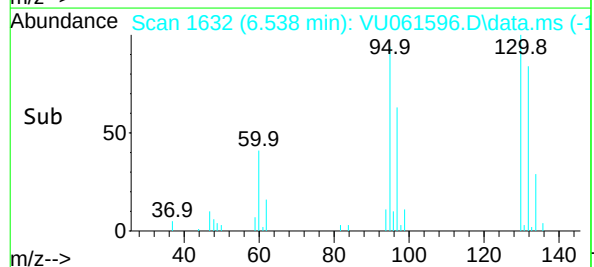
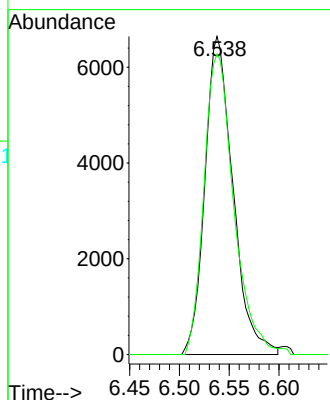
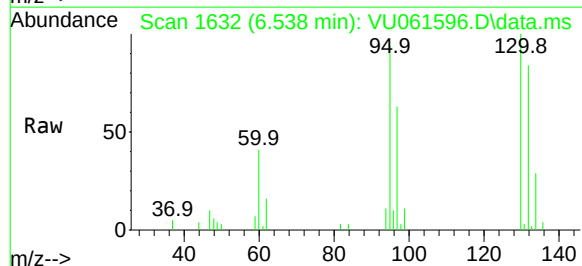
95 94.4 80.6 120.8

Manual Integrations

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Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#38

1,2-Dichloropropane

Concen: 0.879 ug/l

RT: 6.782 min Scan# 1708

Delta R.T. 0.003 min

Lab File: VU061596.D

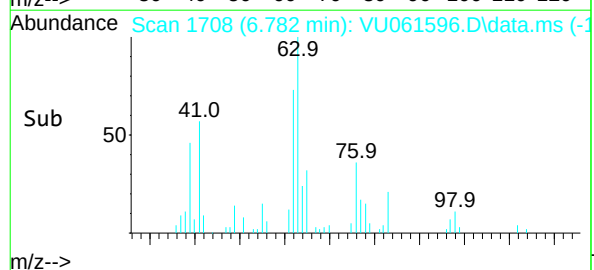
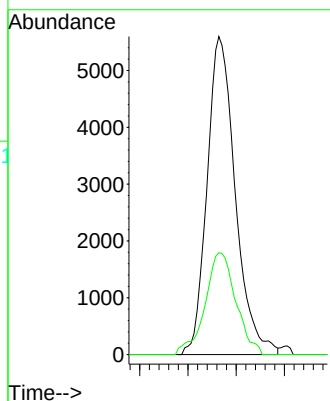
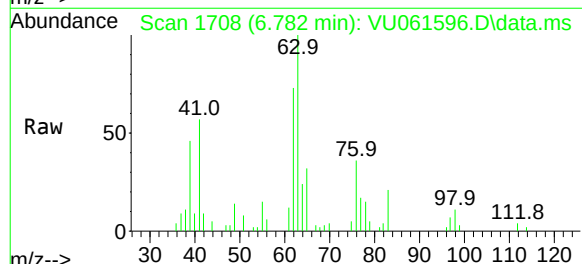
Acq: 12 Nov 2024 09:32

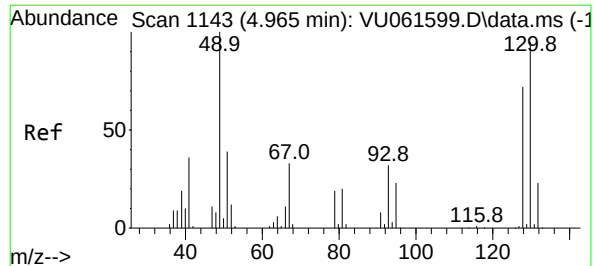
Tgt Ion: 63 Resp: 11386

Ion Ratio Lower Upper

63 100

65 32.0 25.3 37.9





#39

Methacrylonitrile

Concen: 0.851 ug/l

RT: 4.998 min Scan# 1115

Delta R.T. 0.032 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 2418

Ion Ratio Lower Upper

41 100

67 54.7 77.6 116.4#

39 55.7 43.9 65.9

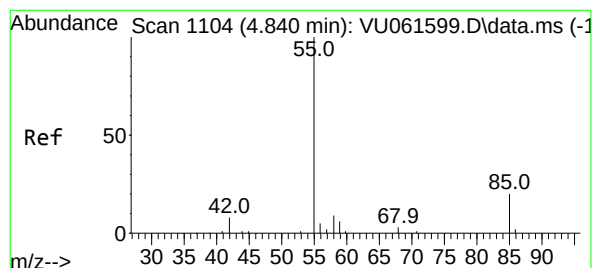
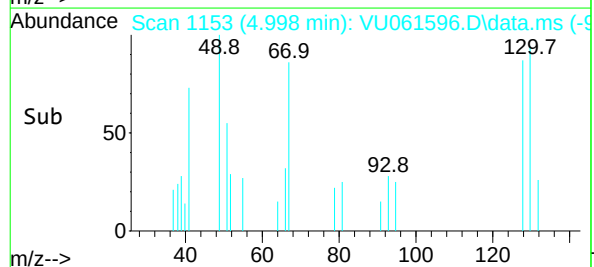
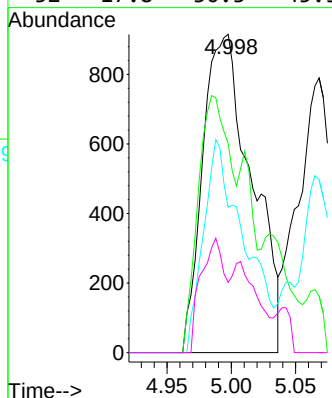
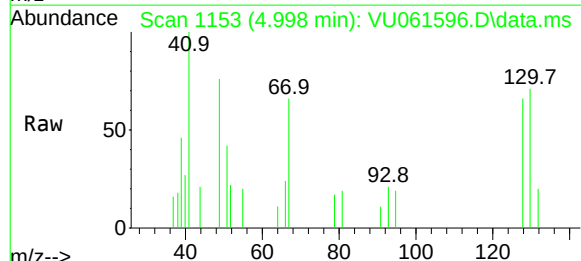
52 17.8 30.3 45.5#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#40

Methyl acrylate

Concen: 0.913 ug/l m

RT: 4.875 min Scan# 1115

Delta R.T. 0.035 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion: 55 Resp: 4692

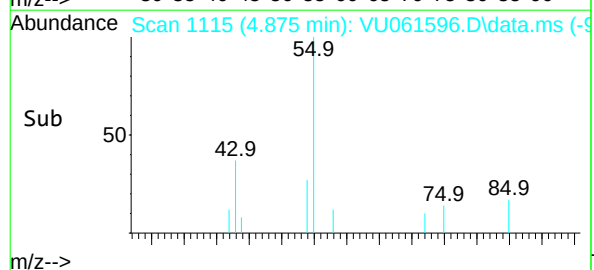
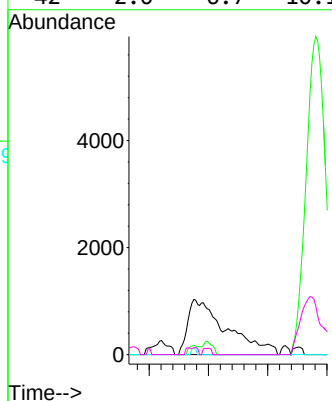
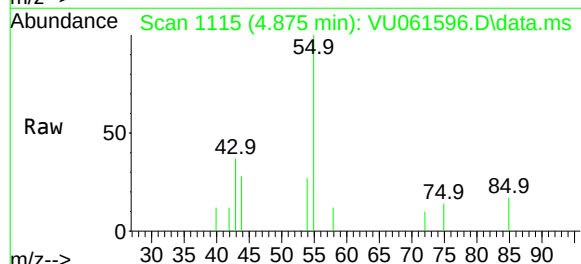
Ion Ratio Lower Upper

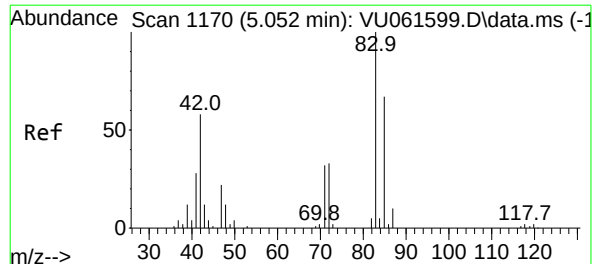
55 100

85 0.0 16.5 24.7#

58 1.4 7.6 11.4#

42 2.0 6.7 10.1#





#41

Tetrahydrofuran

Concen: 1.807 ug/l

RT: 5.071 min Scan# 1170

Delta R.T. 0.019 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

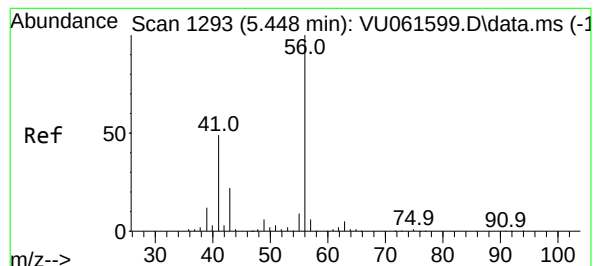
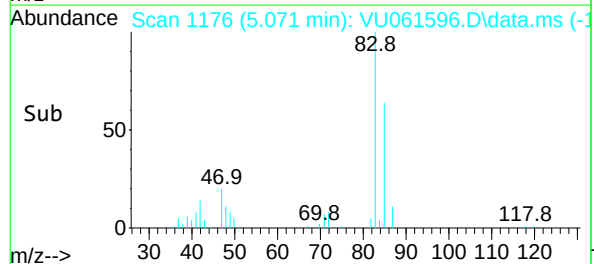
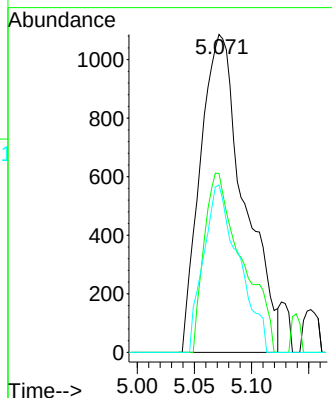
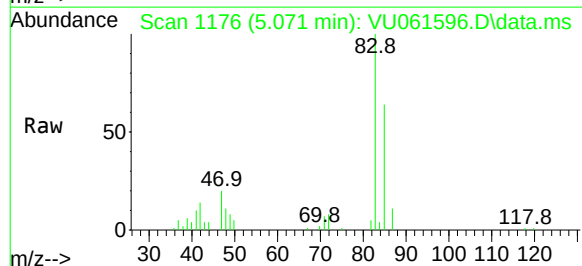
ClientSampleId :

VSTDICC001

Tgt Ion:	42	Resp:	2899
Ion	Ratio	Lower	Upper
42	100		
72	48.6	49.1	73.7
71	42.3	40.2	60.4

Manual Integrations
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Supervised By :Mahesh Dadoda 11/13/2024



#42

1-Chlorobutane

Concen: 0.853 ug/l

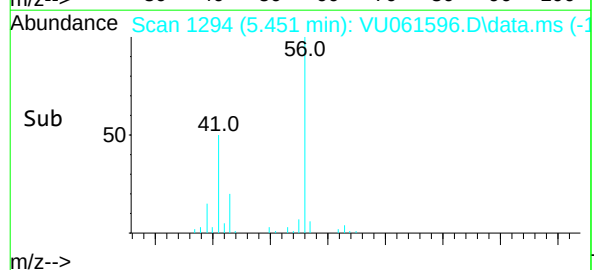
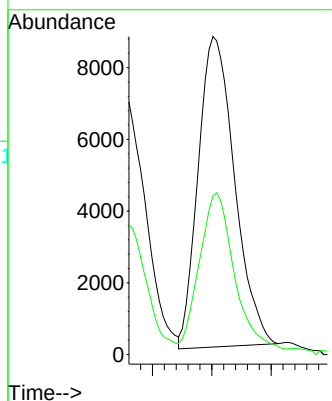
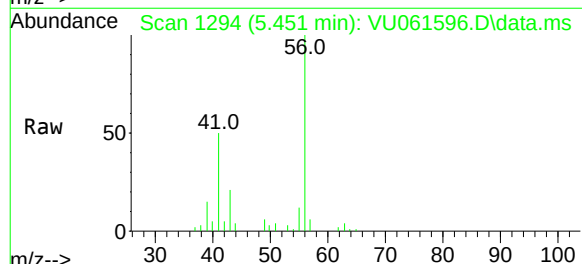
RT: 5.451 min Scan# 1294

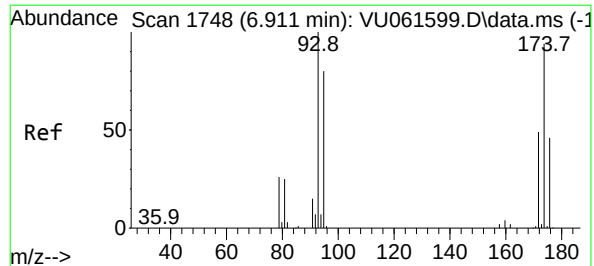
Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion:	56	Resp:	18424
Ion	Ratio	Lower	Upper
56	100		
41	48.4	23.4	70.2





#43

Dibromomethane

Concen: 0.917 ug/l

RT: 6.914 min Scan# 1749

Delta R.T. 0.003 min

Lab File: VU061596.D

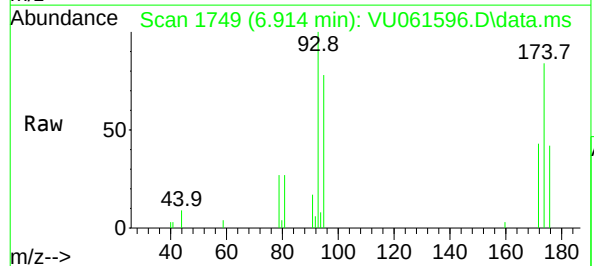
Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001



Tgt Ion: 93 Resp: 6285

Ion Ratio Lower Upper

93 100

95 81.7 65.2 97.8

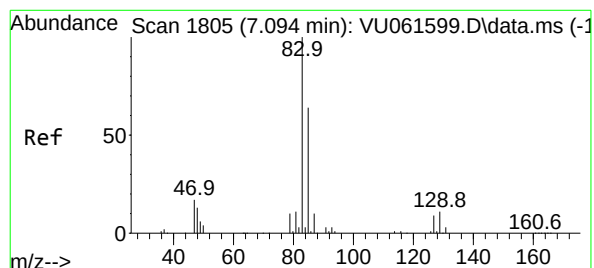
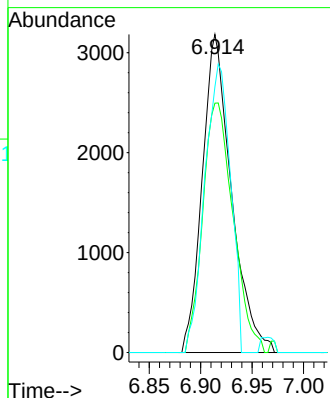
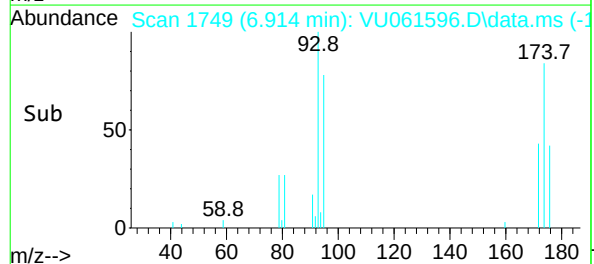
174 79.9 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

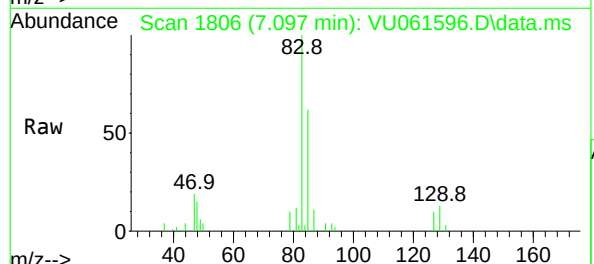
Concen: 0.867 ug/l

RT: 7.097 min Scan# 1806

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32



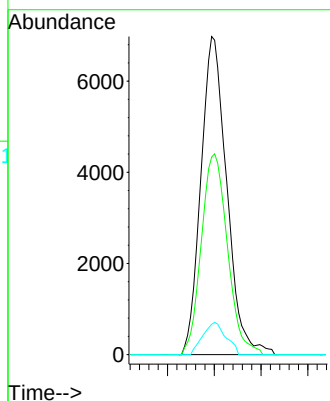
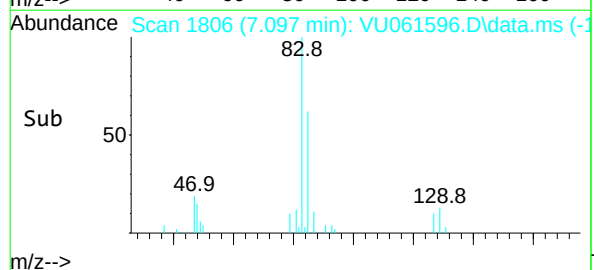
Tgt Ion: 83 Resp: 13419

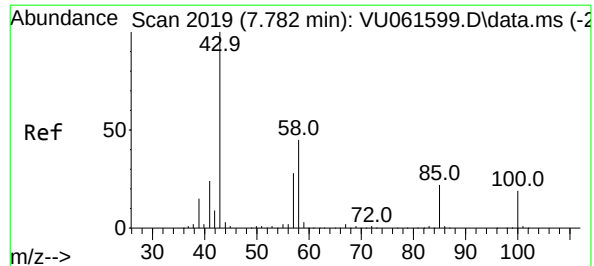
Ion Ratio Lower Upper

83 100

85 62.1 51.4 77.0

127 9.5 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 4.356 ug/l

RT: 7.788 min Scan# 2019

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

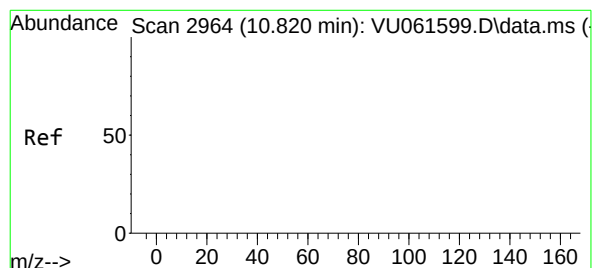
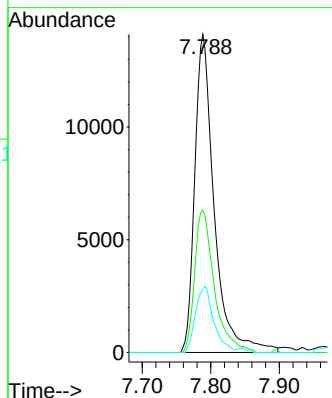
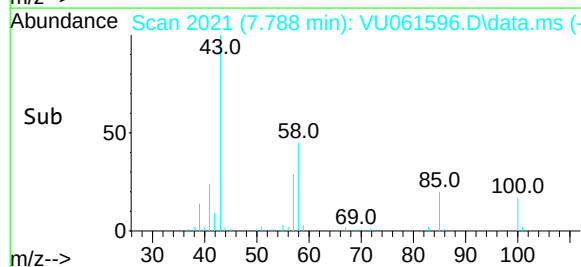
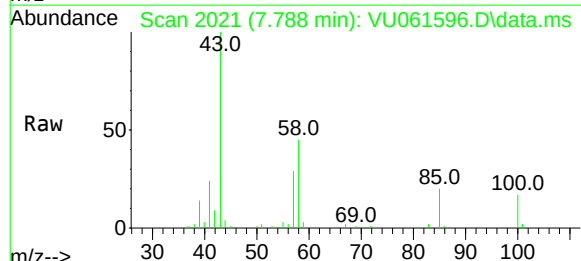
ClientSampleId :

VSTDIC001

Tgt	Ion: 43	Resp: 27784
Ion	Ratio	Lower Upper
43	100	
58	45.3	22.3 66.8
85	19.5	17.2 25.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 1.867 ug/l m

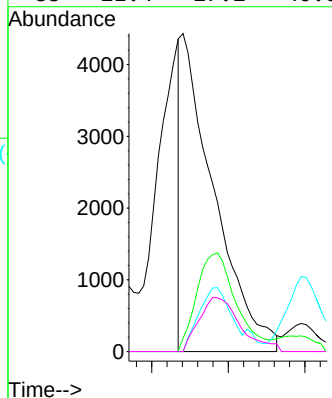
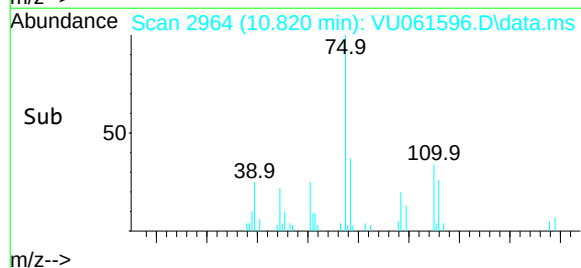
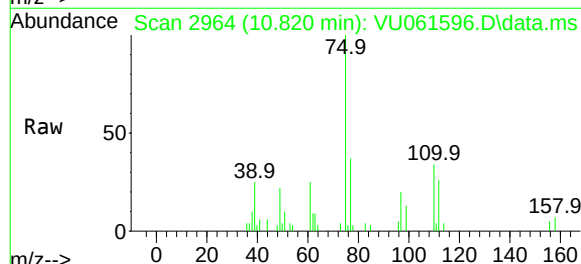
RT: 10.820 min Scan# 2964

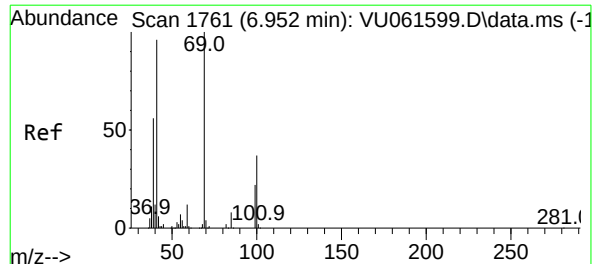
Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt	Ion: 75	Resp: 6585
Ion	Ratio	Lower Upper
75	100	
53	37.6	50.7 76.1#
89	22.4	35.2 52.8#
88	21.4	27.2 40.8#





#47

Methyl methacrylate

Concen: 1.604 ug/l

RT: 6.965 min Scan# 17

Delta R.T. 0.013 min

Lab File: VU061596.D

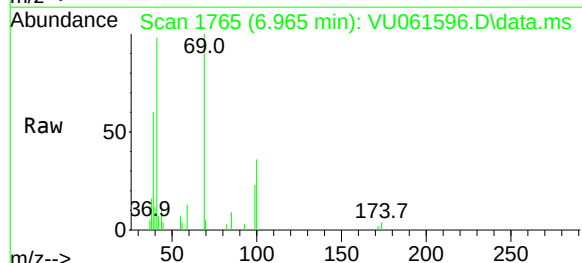
Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001



Tgt Ion: 69 Resp: 8731

Ion Ratio Lower Upper

69 100

41 110.3 0.0 193.6

39 63.6 46.6 70.0

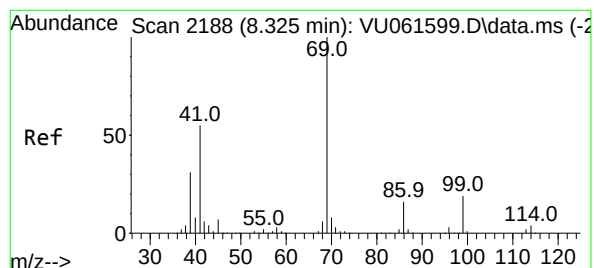
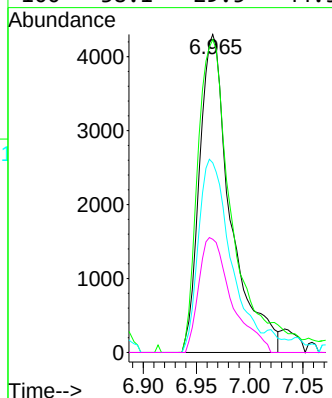
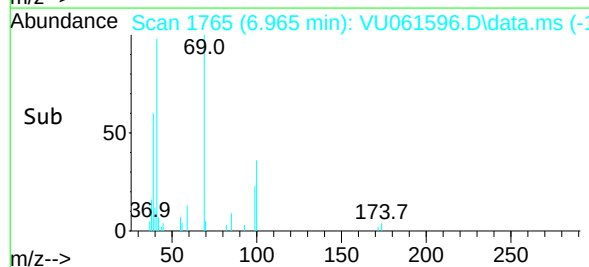
100 38.1 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#48

Ethyl methacrylate

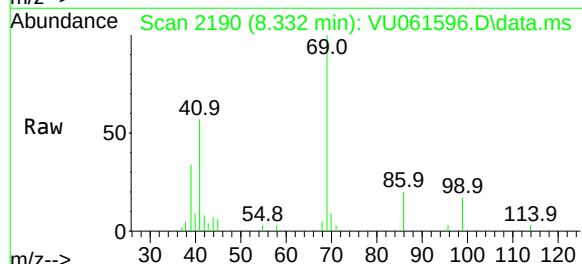
Concen: 0.804 ug/l

RT: 8.332 min Scan# 2190

Delta R.T. 0.007 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

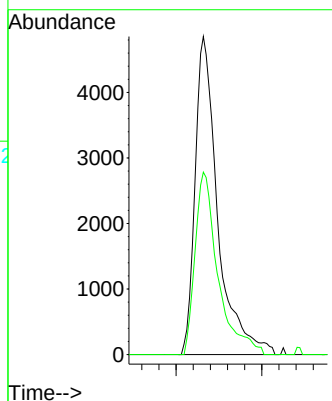
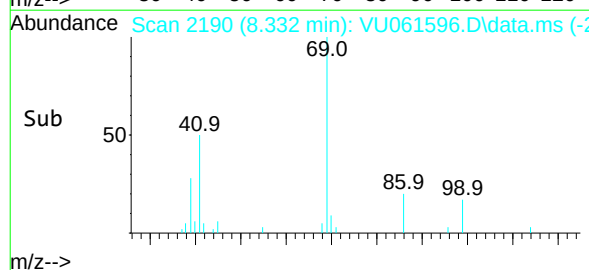


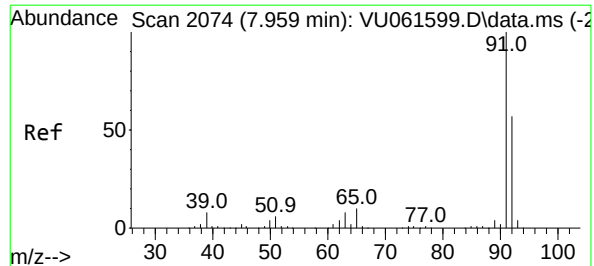
Tgt Ion: 69 Resp: 8893

Ion Ratio Lower Upper

69 100

41 58.1 27.3 81.9





#49

Toluene

Concen: 0.892 ug/l

RT: 7.965 min Scan# 2074

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 92 Resp: 28084

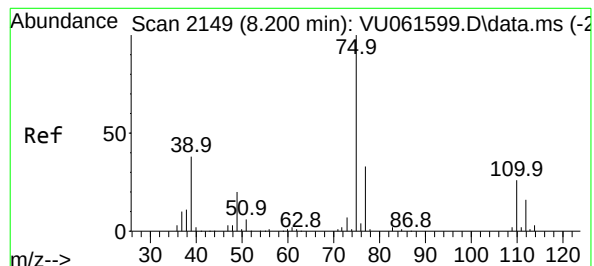
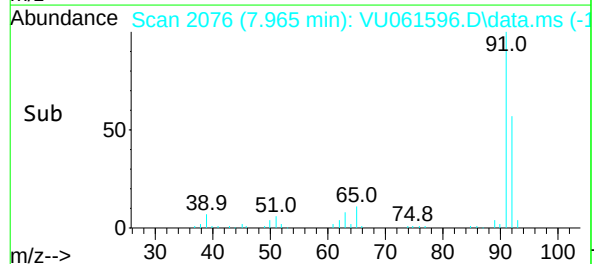
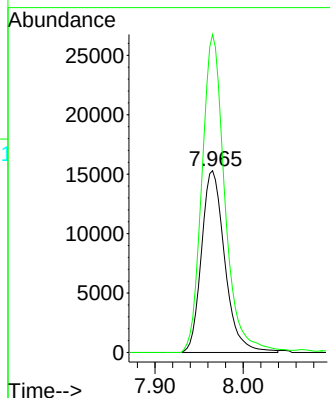
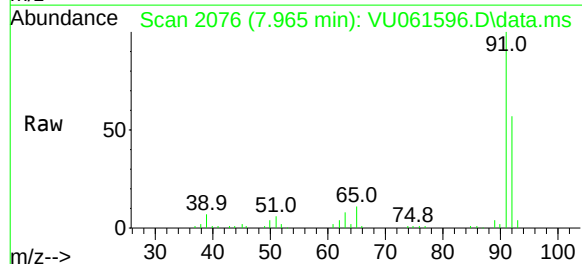
Ion Ratio Lower Upper

92 100

91 172.4 139.6 209.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#50

t-1,3-Dichloropropene

Concen: 0.840 ug/l

RT: 8.210 min Scan# 2152

Delta R.T. 0.010 min

Lab File: VU061596.D

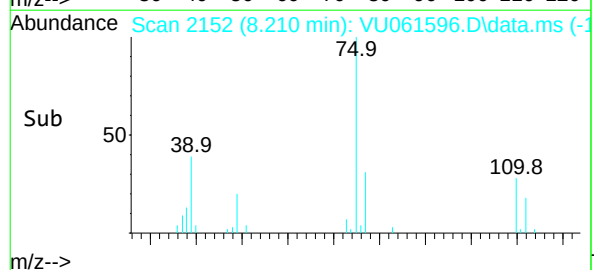
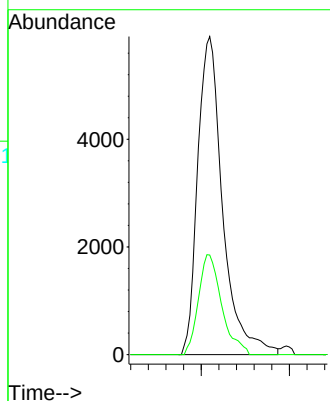
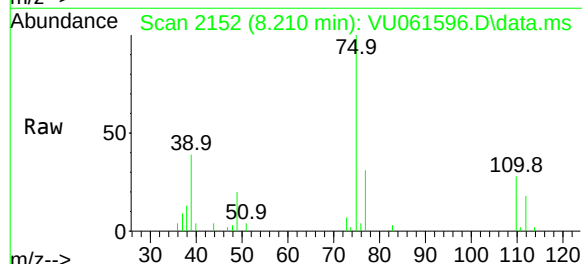
Acq: 12 Nov 2024 09:32

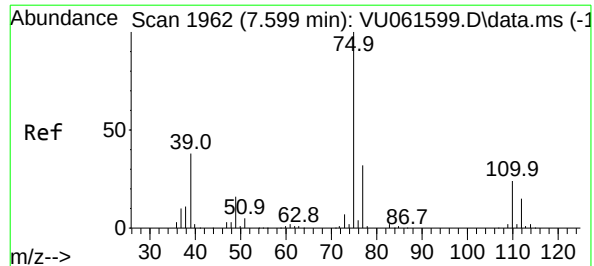
Tgt Ion: 75 Resp: 11637

Ion Ratio Lower Upper

75 100

77 31.3 26.0 39.0





#51

cis-1,3-Dichloropropene

Concen: 0.850 ug/l

RT: 7.602 min Scan# 19

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 15113

Ion Ratio Lower Upper

75 100

77 31.6 25.5 38.3

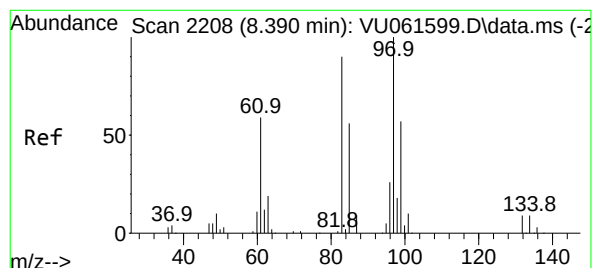
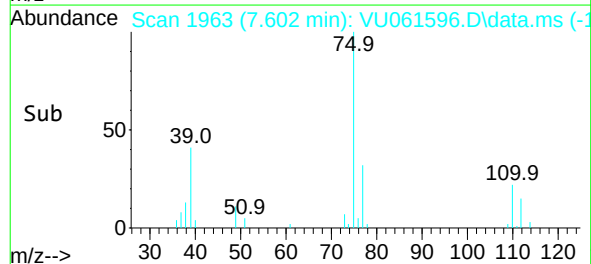
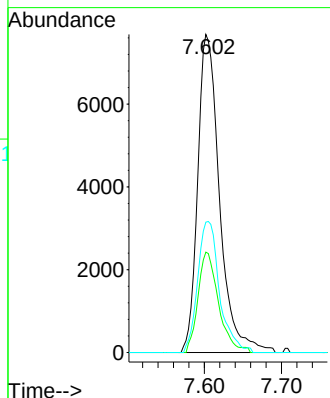
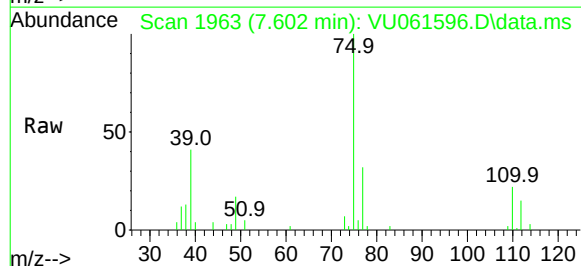
39 41.0 30.6 46.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#52

1,1,2-Trichloroethane

Concen: 0.891 ug/l

RT: 8.393 min Scan# 2209

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion: 97 Resp: 8379

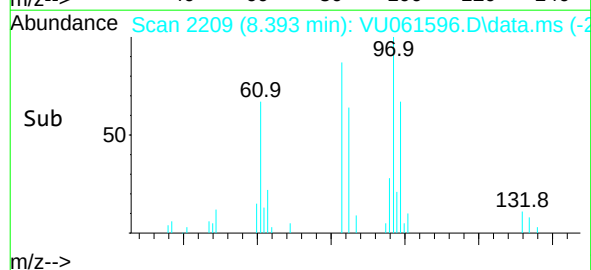
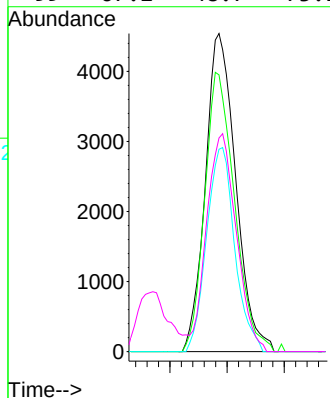
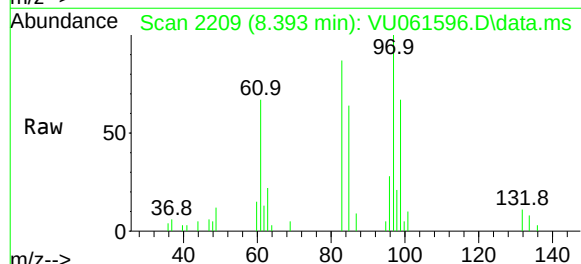
Ion Ratio Lower Upper

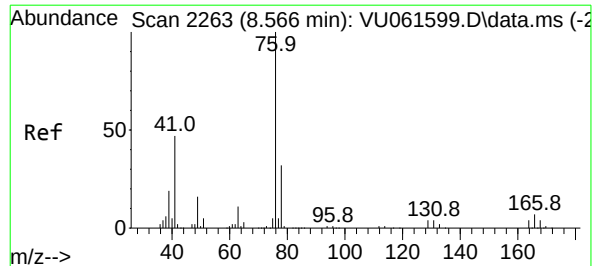
97 100

83 87.0 71.7 107.5

85 63.6 45.2 67.8

99 67.2 48.7 73.1





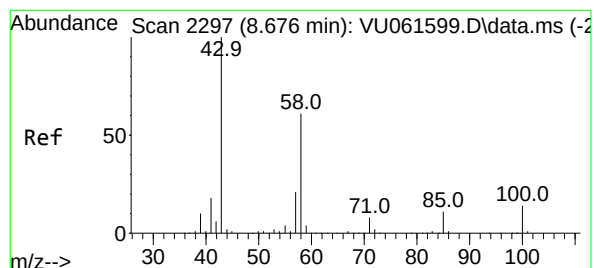
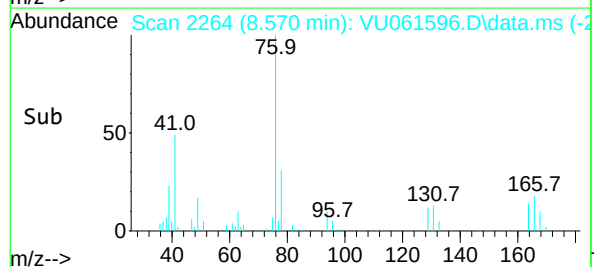
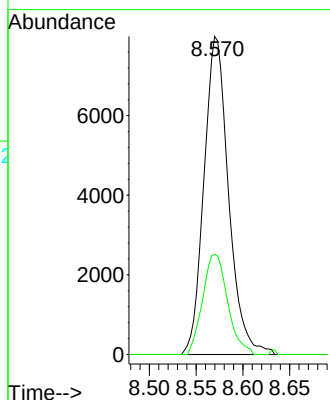
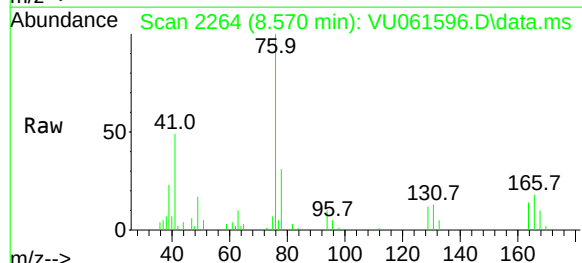
#53
1,3-Dichloropropane
Concen: 0.911 ug/l
RT: 8.570 min Scan# 2263
Delta R.T. 0.003 min
Lab File: VU061596.D
Acq: 12 Nov 2024 09:32

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 14619
Ion Ratio Lower Upper
76 100
78 32.0 25.8 38.8

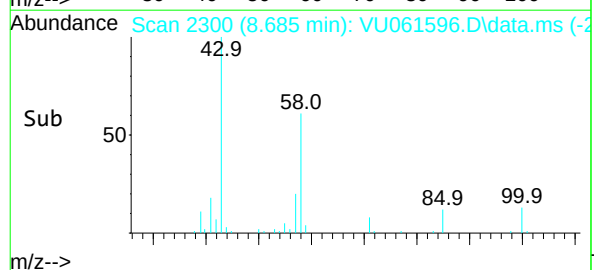
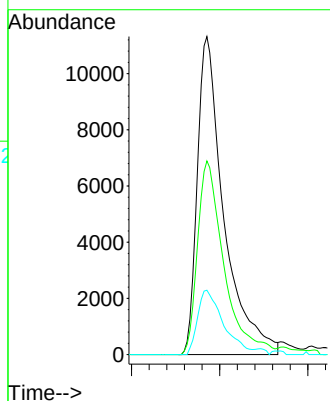
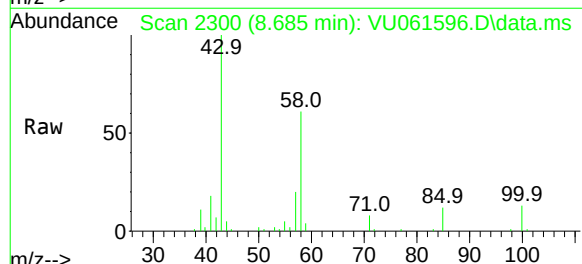
Manual Integrations
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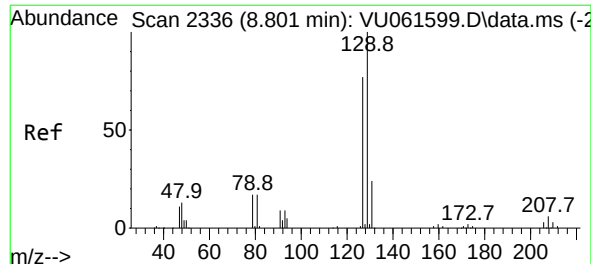
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#54
2-Hexanone
Concen: 4.350 ug/l
RT: 8.685 min Scan# 2300
Delta R.T. 0.010 min
Lab File: VU061596.D
Acq: 12 Nov 2024 09:32

Tgt Ion: 43 Resp: 23641
Ion Ratio Lower Upper
43 100
58 60.6 42.3 82.3
57 19.6 0.9 40.9





#55

Dibromochloromethane

Concen: 0.862 ug/l

RT: 8.804 min Scan# 2336

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 8771

Ion Ratio Lower Upper

129 100

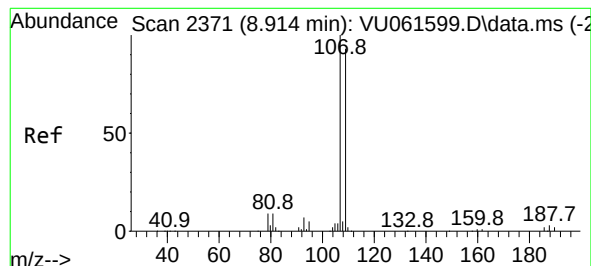
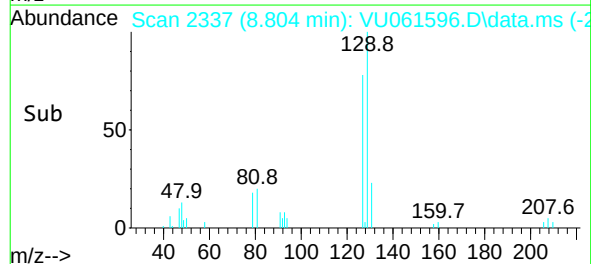
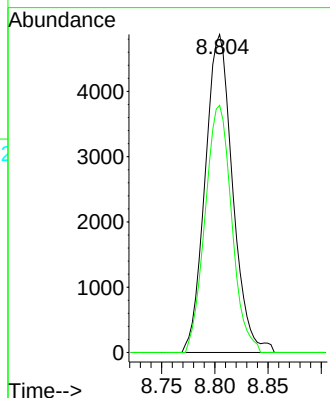
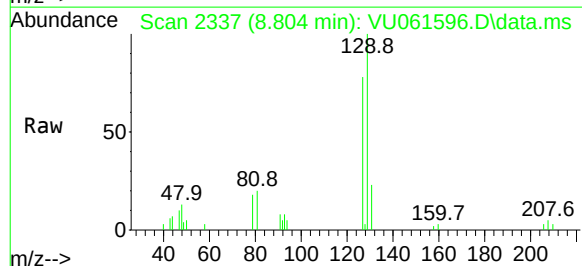
127 75.1 61.8 92.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#56

1,2-Dibromoethane

Concen: 0.887 ug/l

RT: 8.917 min Scan# 2372

Delta R.T. 0.003 min

Lab File: VU061596.D

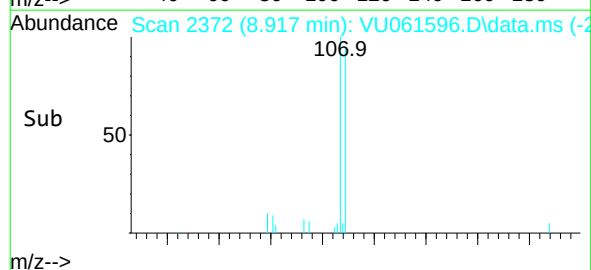
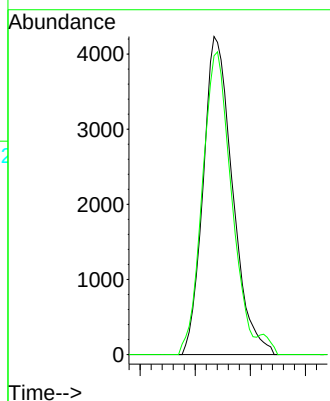
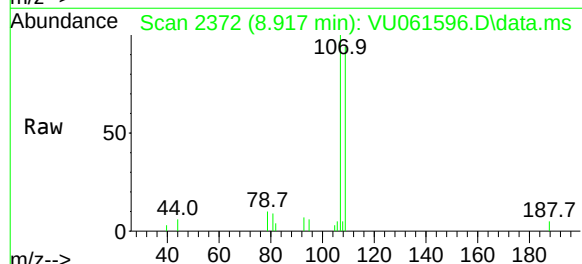
Acq: 12 Nov 2024 09:32

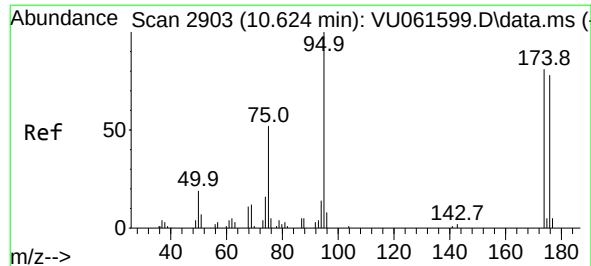
Tgt Ion:107 Resp: 7832

Ion Ratio Lower Upper

107 100

109 94.0 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 0.950 ug/l

RT: 10.631 min Scan# 2905

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 95 Resp: 15751

Ion Ratio Lower Upper

95 100

174 76.1 67.5 101.3

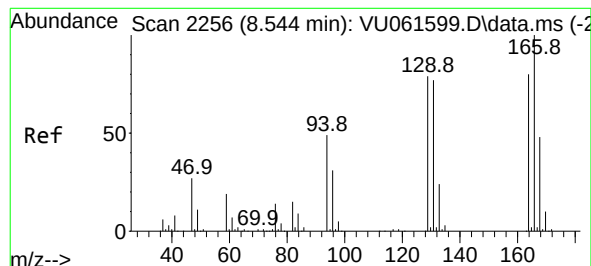
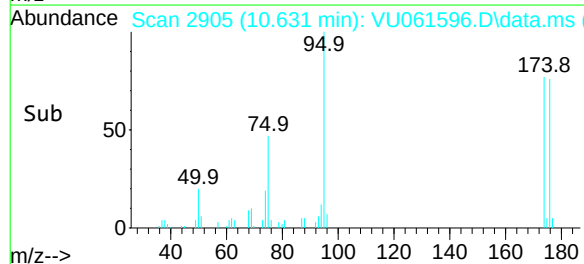
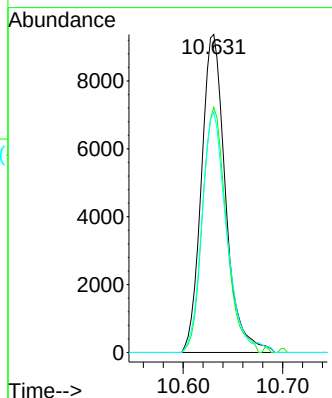
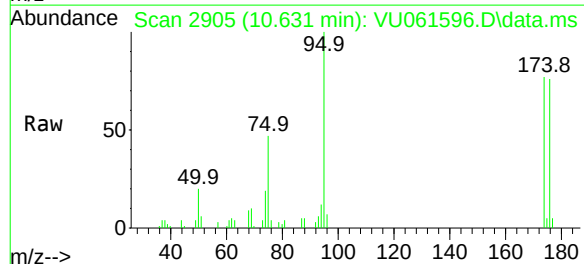
176 77.6 62.7 94.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#58

Tetrachloroethene

Concen: 0.926 ug/l

RT: 8.547 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion:164 Resp: 11373

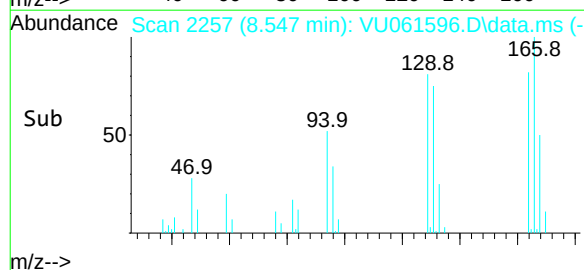
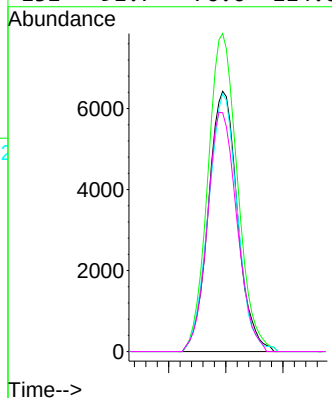
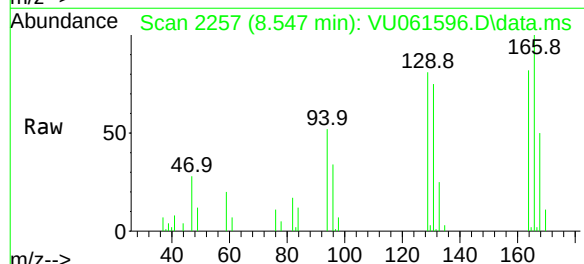
Ion Ratio Lower Upper

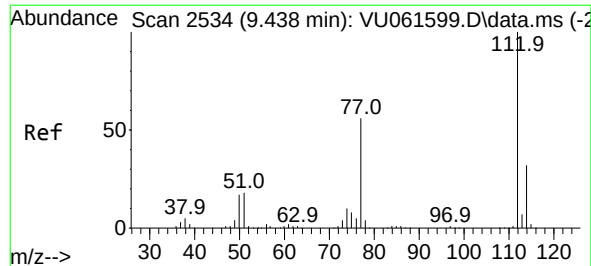
164 100

166 122.2 99.9 149.9

129 99.0 78.6 118.0

131 91.7 76.6 114.8





#59

Chlorobenzene

Concen: 0.882 ug/l

RT: 9.444 min Scan# 2534

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion:112 Resp: 30694

Ion Ratio Lower Upper

112 100

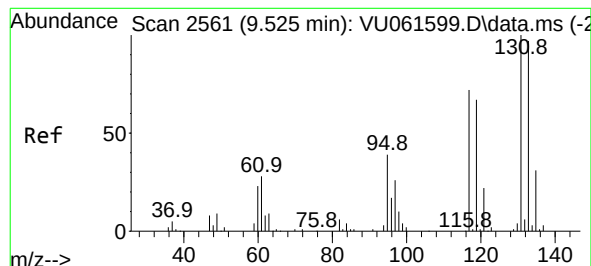
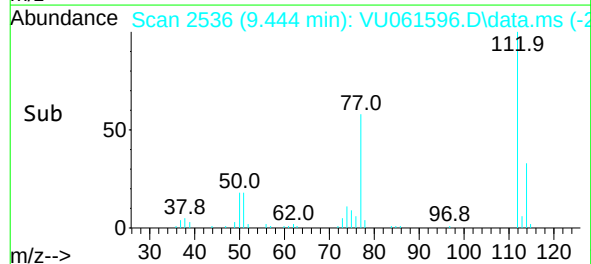
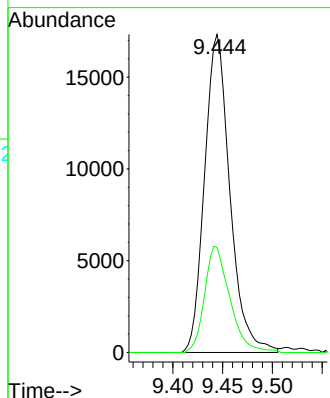
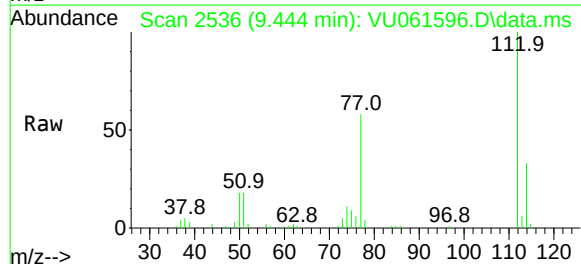
114 33.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#60

1,1,1,2-Tetrachloroethane

Concen: 0.865 ug/l

RT: 9.525 min Scan# 2561

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

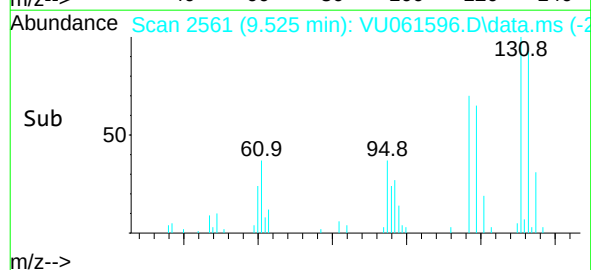
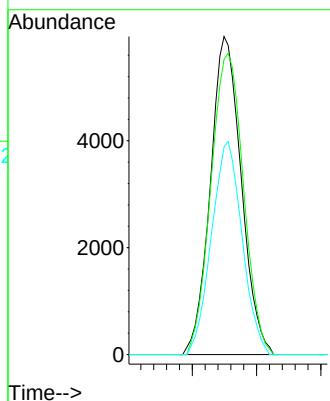
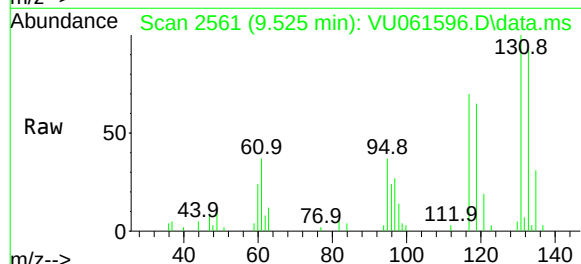
Tgt Ion:131 Resp: 9928

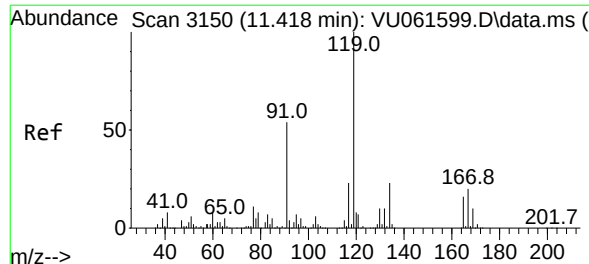
Ion Ratio Lower Upper

131 100

133 99.5 76.4 114.6

119 66.4 53.5 80.3





#61

Pentachloroethane

Concen: 0.801 ug/l

RT: 11.422 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 6923

Ion Ratio Lower Upper

117 100

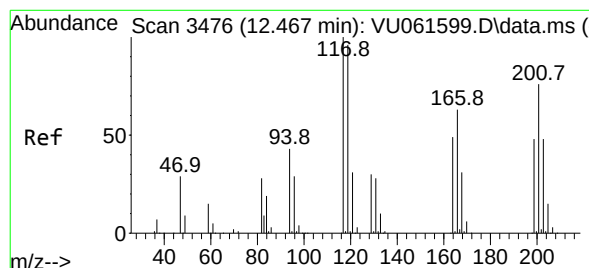
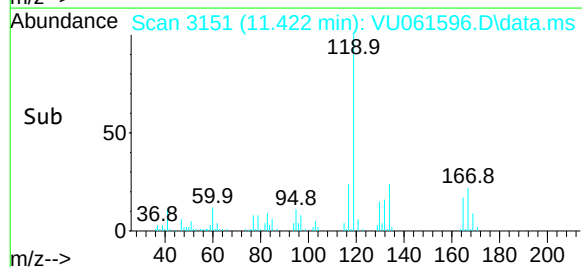
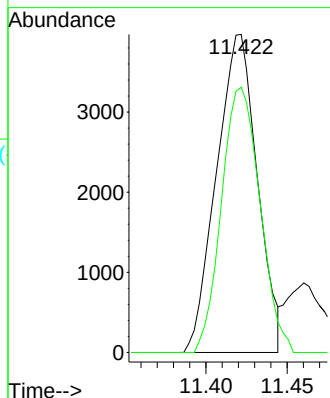
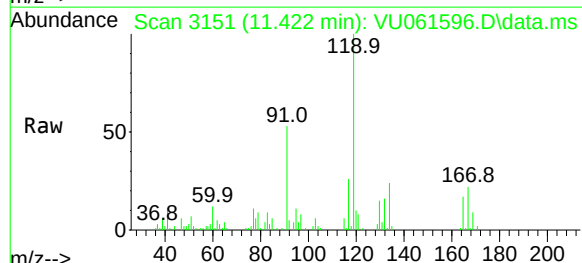
167 78.7 65.4 98.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 0.976 ug/l

RT: 12.467 min Scan# 3476

Delta R.T. 0.000 min

Lab File: VU061596.D

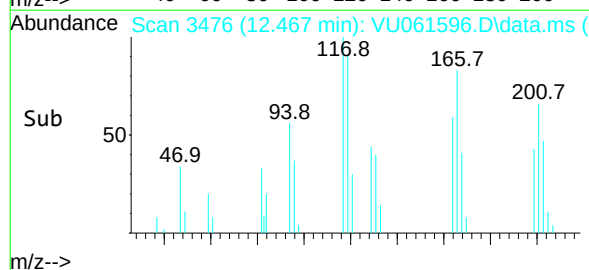
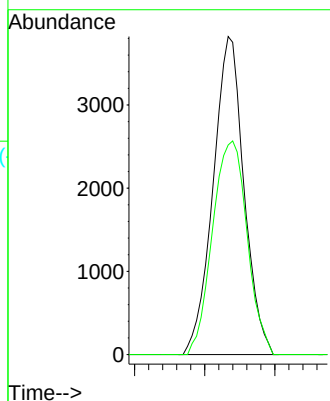
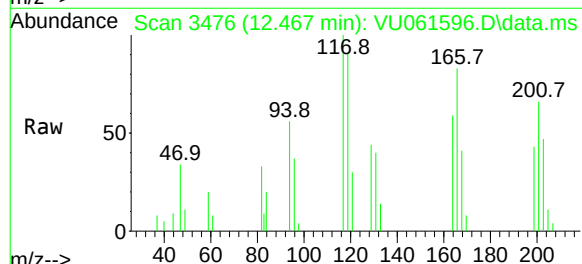
Acq: 12 Nov 2024 09:32

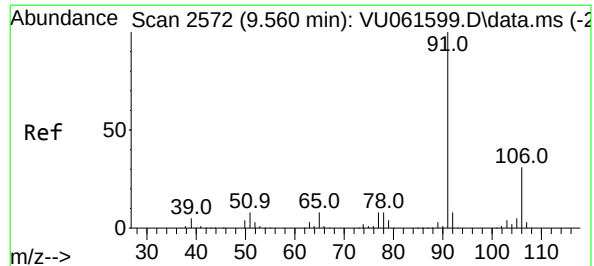
Tgt Ion:117 Resp: 5845

Ion Ratio Lower Upper

117 100

201 75.2 61.0 91.6





#63

Ethyl Benzene

Concen: 0.850 ug/l

RT: 9.563 min Scan# 2572

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 49794

Ion Ratio Lower Upper

91 100

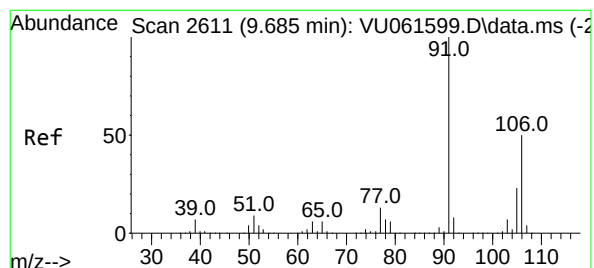
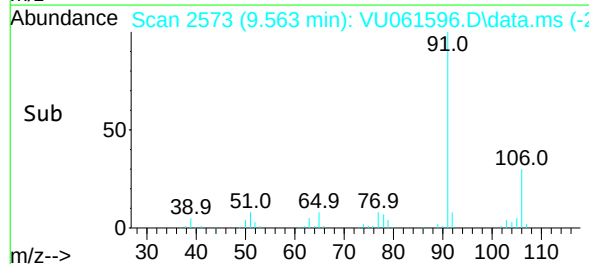
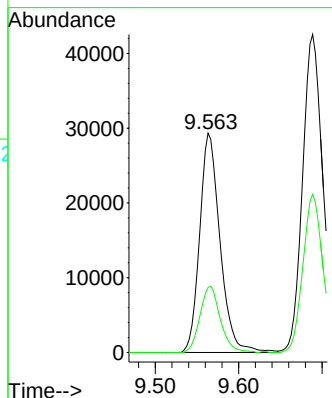
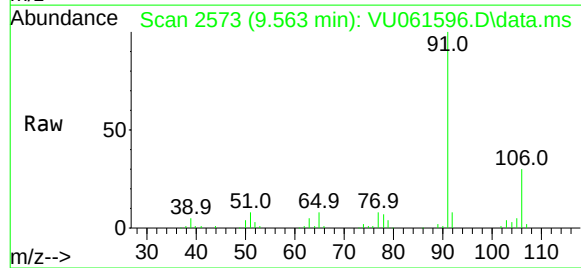
106 29.6 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#64

m/p-Xylenes

Concen: 1.627 ug/l

RT: 9.689 min Scan# 2612

Delta R.T. 0.003 min

Lab File: VU061596.D

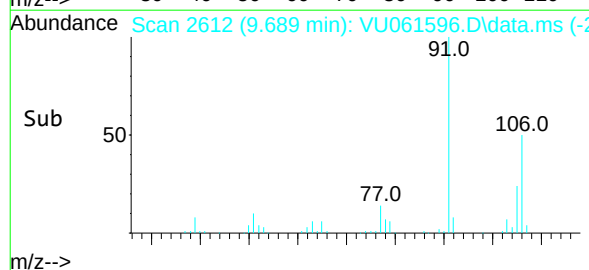
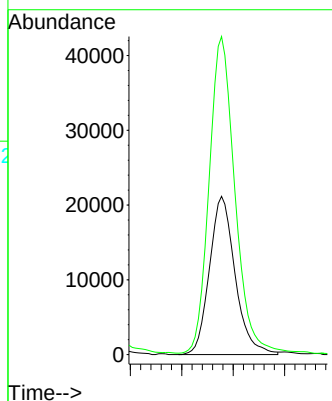
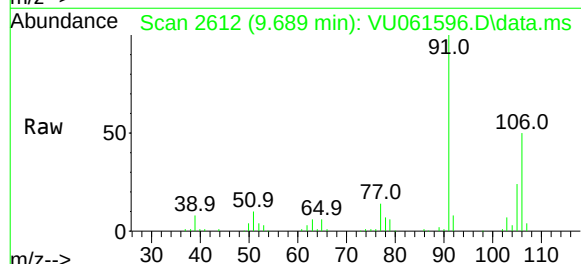
Acq: 12 Nov 2024 09:32

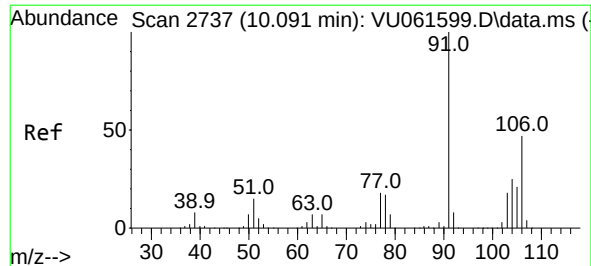
Tgt Ion:106 Resp: 36695

Ion Ratio Lower Upper

106 100

91 202.0 161.3 241.9





#65

o-Xylene

Concen: 0.828 ug/l

RT: 10.094 min Scan# 2737

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 18216

Ion Ratio Lower Upper

106 100

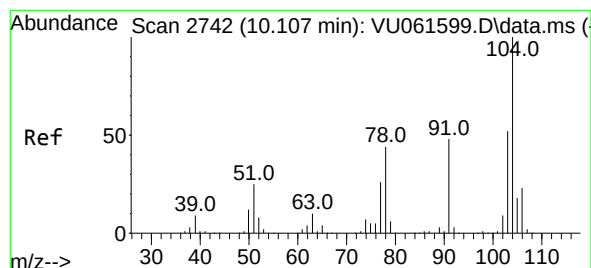
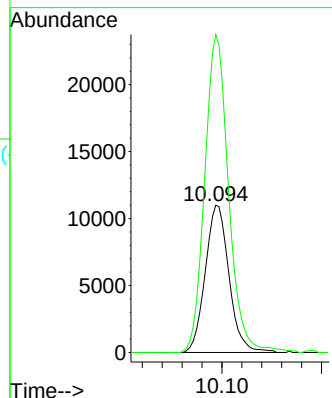
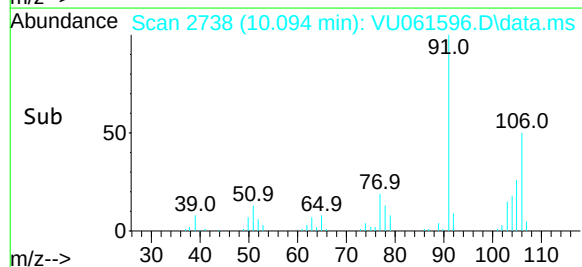
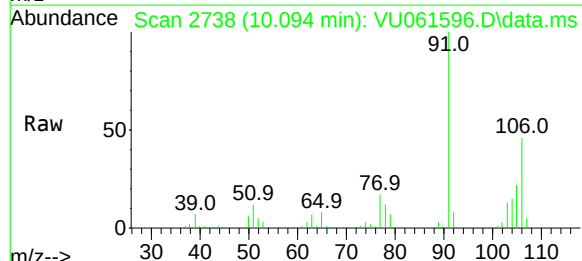
91 217.2 106.7 320.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#66

Styrene

Concen: 0.934 ug/l

RT: 10.113 min Scan# 2744

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

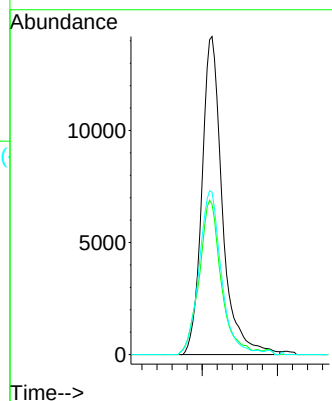
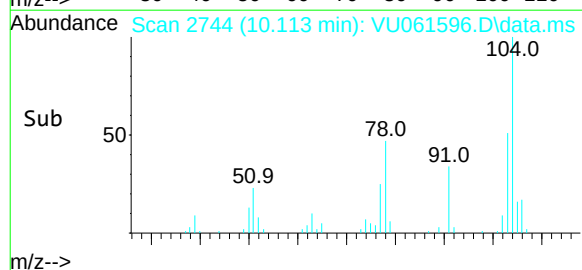
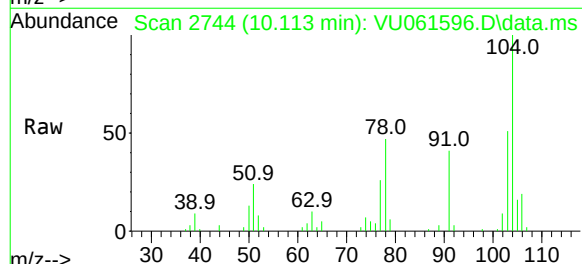
Tgt Ion:104 Resp: 26880

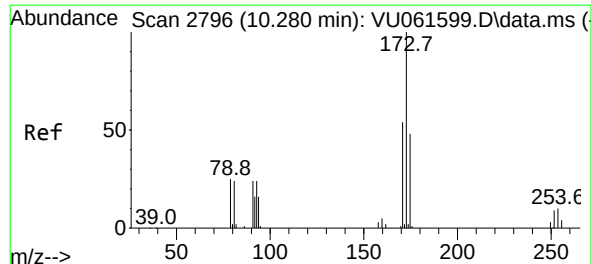
Ion Ratio Lower Upper

104 100

78 51.9 39.2 58.8

103 55.6 44.9 67.3





#67

Bromoform

Concen: 0.809 ug/l

RT: 10.284 min Scan# 27

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

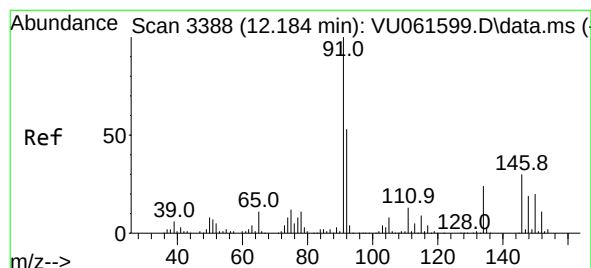
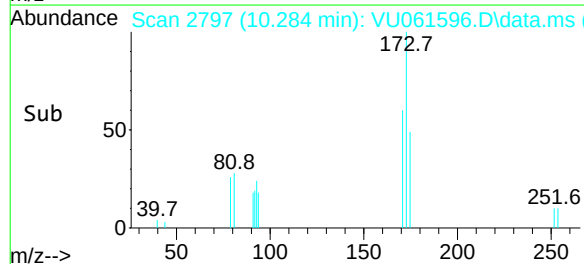
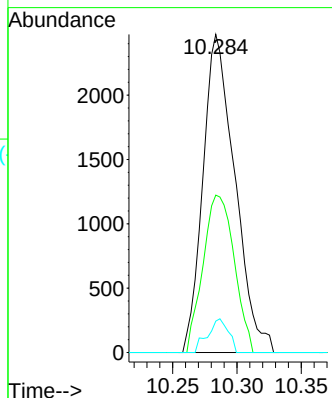
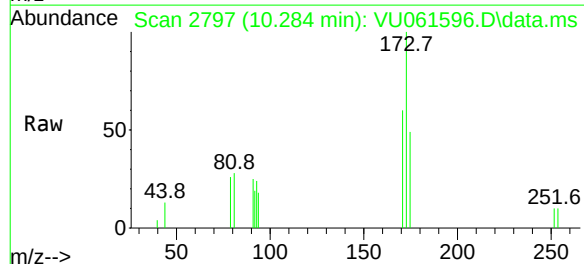
ClientSampleId :

VSTDICC001

Tgt	Ion:173	Resp:	4269
Ion	Ratio	Lower	Upper
173	100		
175	48.2	38.4	57.6
254	6.8	7.7	11.5#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 0.918 ug/l

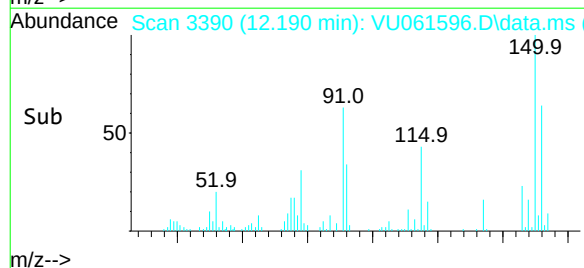
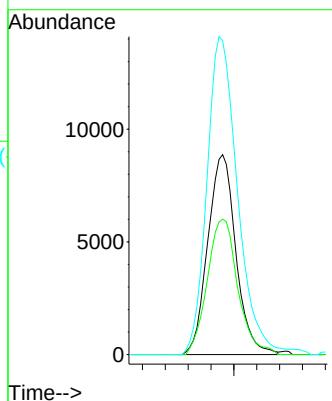
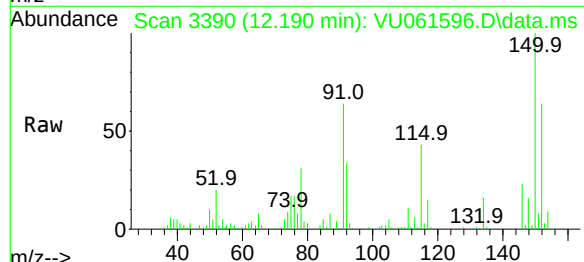
RT: 12.190 min Scan# 3390

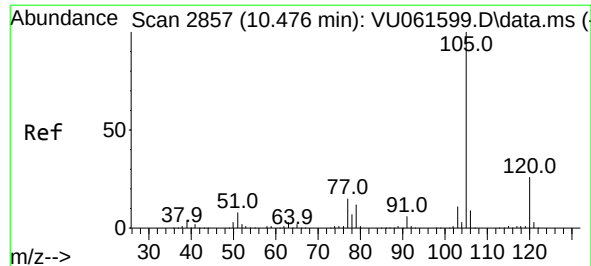
Delta R.T. 0.007 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt	Ion:152	Resp:	15152
Ion	Ratio	Lower	Upper
152	100		
115	73.3	0.0	259.0
150	174.3	0.0	650.2





#69

Isopropylbenzene

Concen: 0.832 ug/l

RT: 10.476 min Scan# 2857

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 105 Resp: 42818

Ion Ratio Lower Upper

105 100

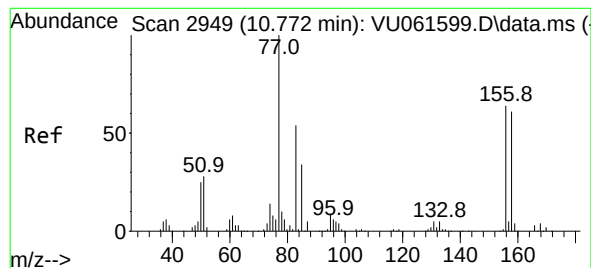
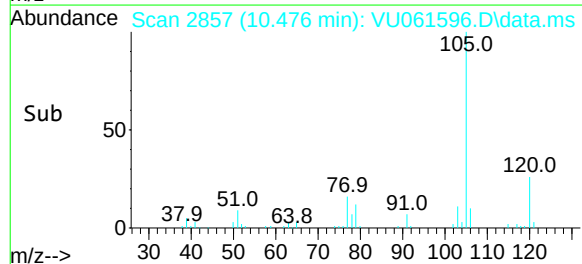
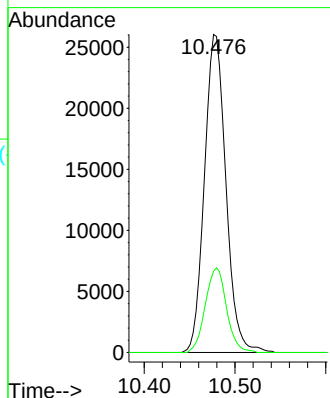
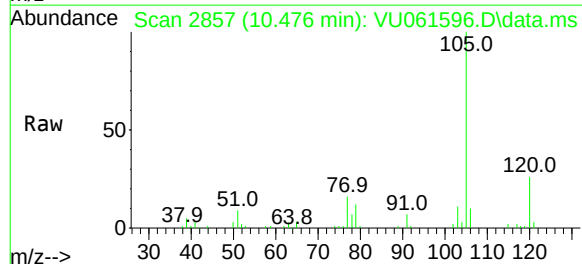
120 26.3 13.2 39.6

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 0.875 ug/l

RT: 10.775 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

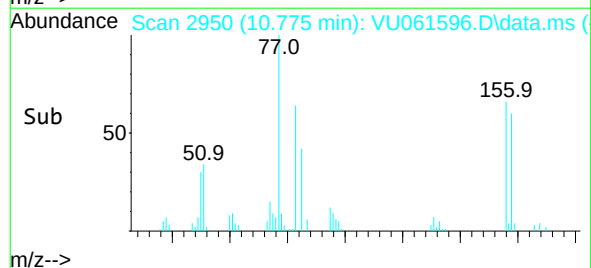
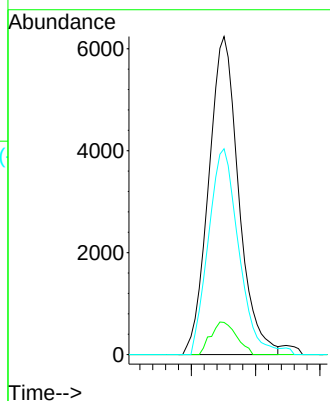
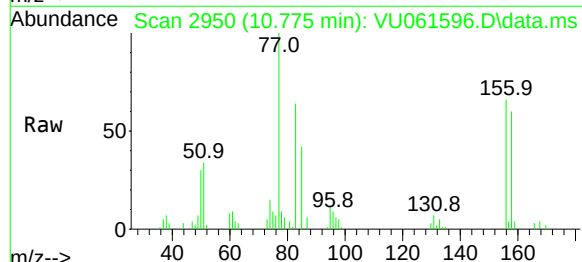
Tgt Ion: 83 Resp: 10123

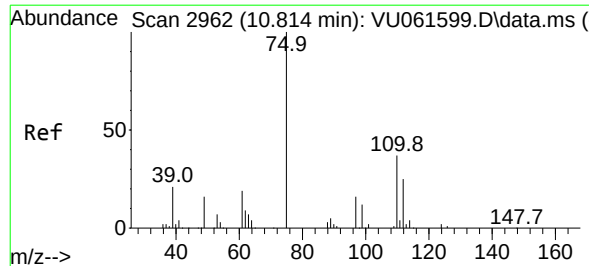
Ion Ratio Lower Upper

83 100

131 8.7 7.9 11.9

85 65.6 51.4 77.2





#71

1,2,3-Trichloropropane

Concen: 0.928 ug/l m

RT: 10.820 min Scan# 29

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 8750

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 30.3 0.0 61.6

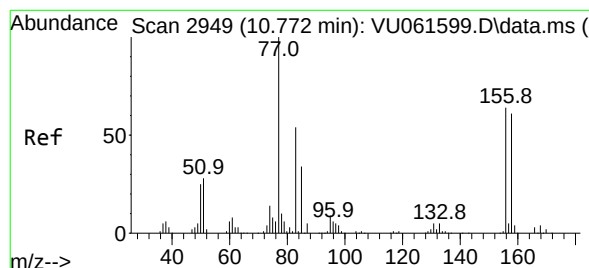
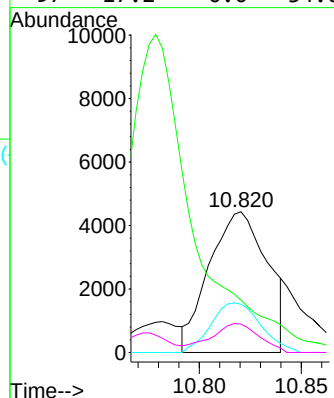
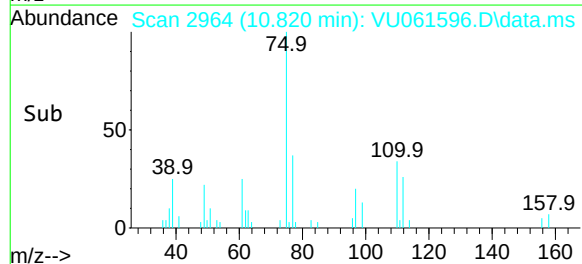
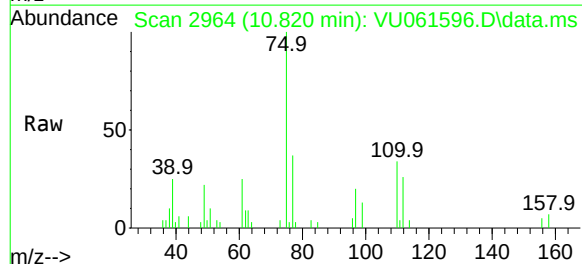
97 17.2 0.0 34.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

Concen: 0.894 ug/l

RT: 10.779 min Scan# 2951

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

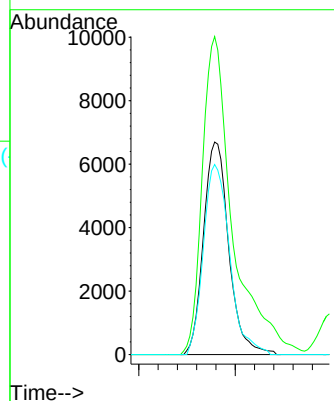
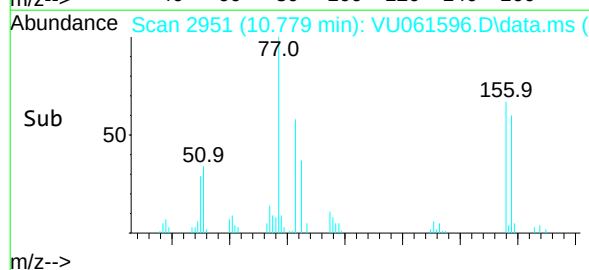
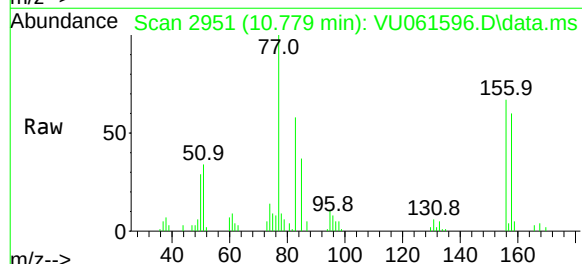
Tgt Ion:156 Resp: 12198

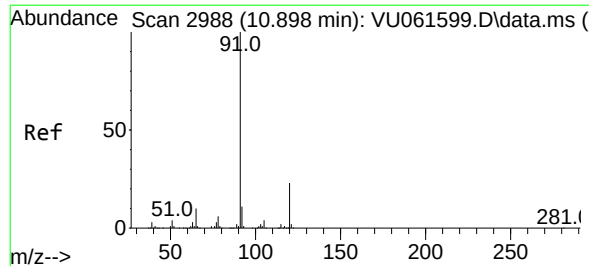
Ion Ratio Lower Upper

156 100

77 180.3 0.0 313.0

158 93.1 0.0 193.2





#73

n-propylbenzene

Concen: 0.785 ug/l

RT: 10.901 min Scan# 29

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC001

Tgt Ion:120 Resp: 11941

Ion Ratio Lower Upper

120 100

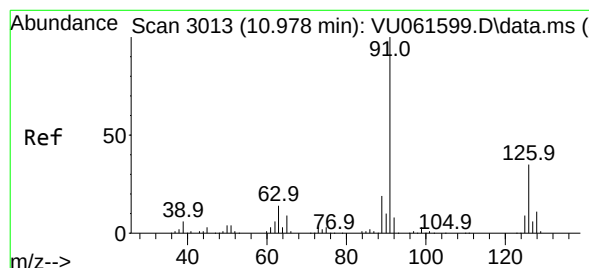
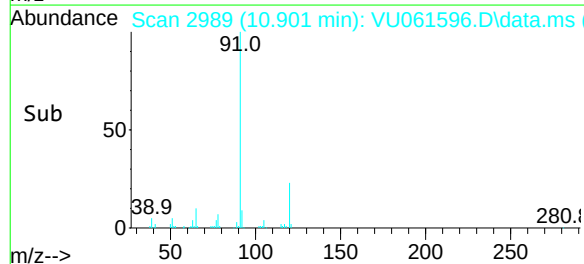
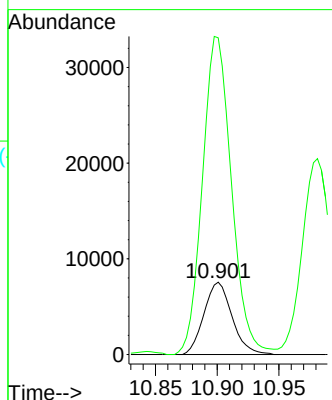
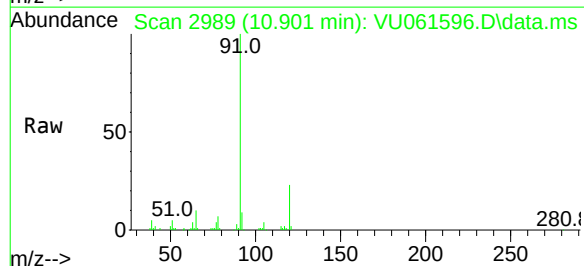
91 455.9 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#74

2-Chlorotoluene

Concen: 0.859 ug/l

RT: 10.981 min Scan# 3014

Delta R.T. 0.003 min

Lab File: VU061596.D

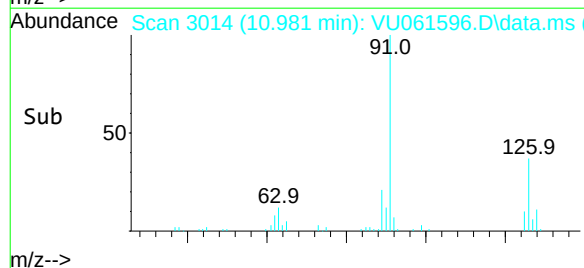
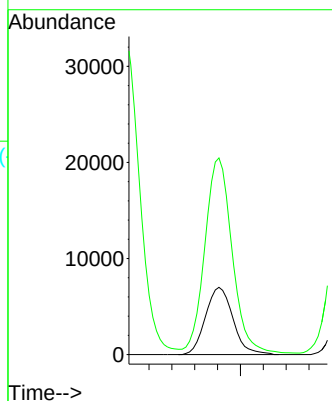
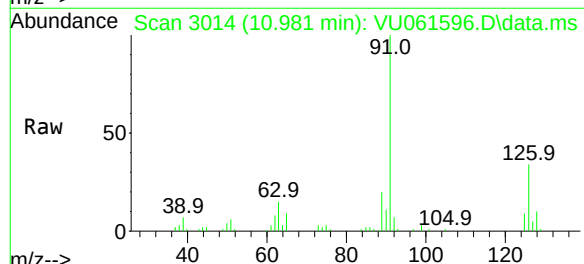
Acq: 12 Nov 2024 09:32

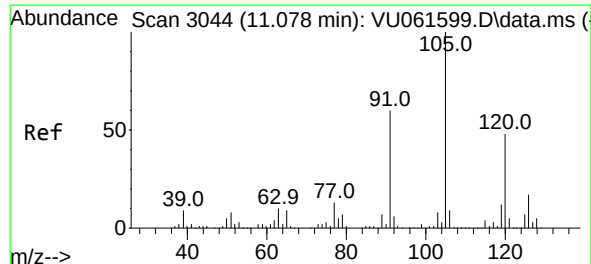
Tgt Ion:126 Resp: 11658

Ion Ratio Lower Upper

126 100

91 292.4 0.0 587.6





#75

1,3,5-Trimethylbenzene

Concen: 0.791 ug/l

RT: 11.081 min Scan# 3044

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion:105 Resp: 36860

Ion Ratio Lower Upper

105 100

120 50.4 38.8 58.2

Instrument :

MSVOA_U

ClientSampleId :

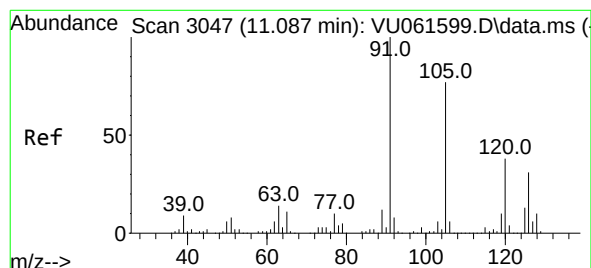
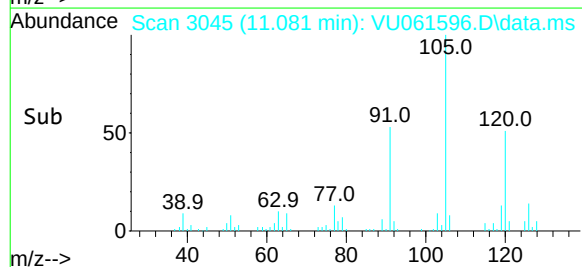
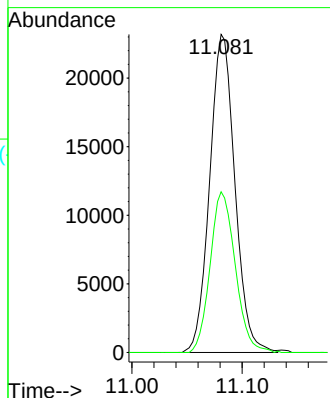
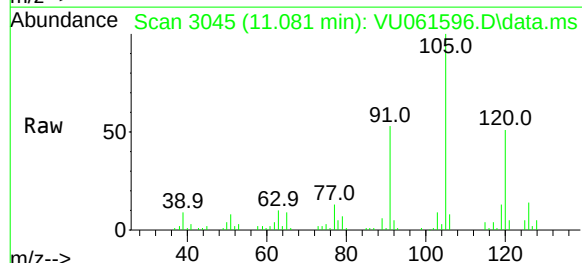
VSTDIC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#76

4-Chlorotoluene

Concen: 0.798 ug/l

RT: 11.094 min Scan# 3049

Delta R.T. 0.006 min

Lab File: VU061596.D

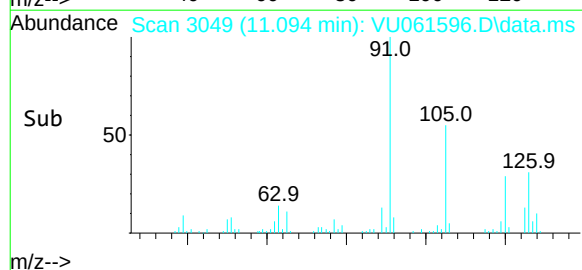
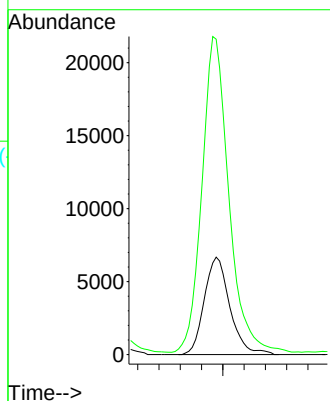
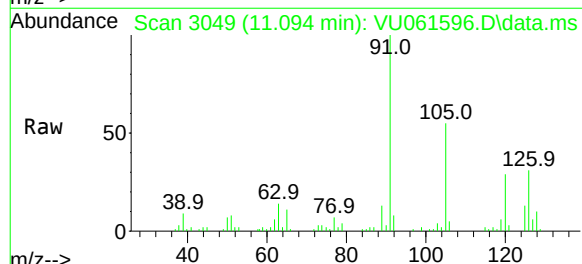
Acq: 12 Nov 2024 09:32

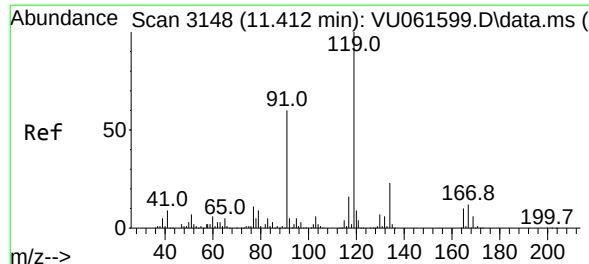
Tgt Ion:126 Resp: 11134

Ion Ratio Lower Upper

126 100

91 340.7 0.0 650.4





#77

tert-Butylbenzene

Concen: 0.812 ug/l

RT: 11.412 min Scan# 3148

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

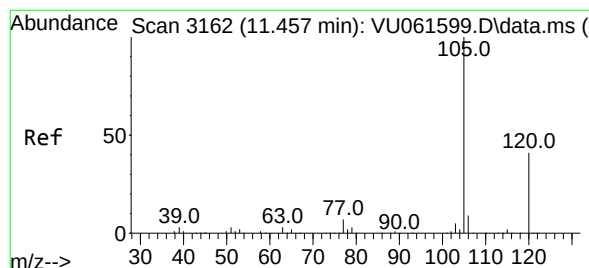
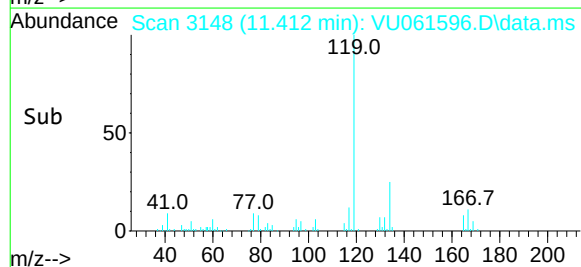
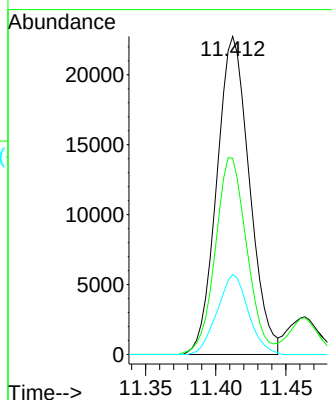
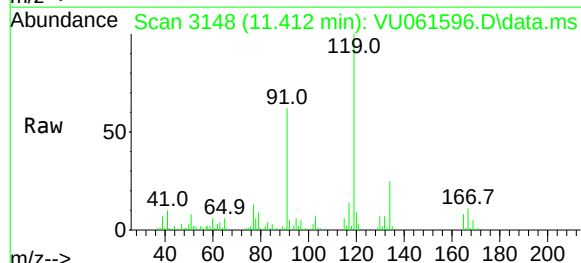
ClientSampleId :

VSTDIC001

Tgt Ion:	119	Resp:	36896
Ion Ratio	Lower	Upper	
119	100		
91	59.5	29.2	87.6
134	23.9	18.4	27.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 0.908 ug/l

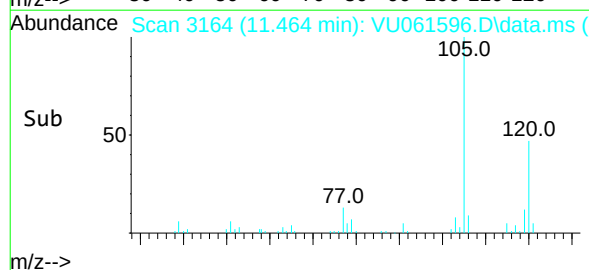
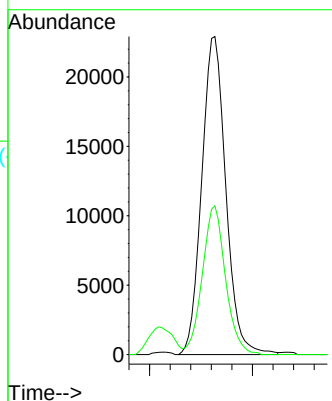
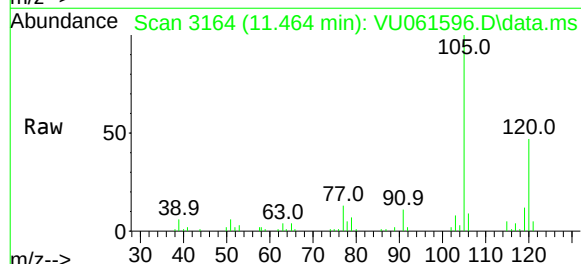
RT: 11.464 min Scan# 3164

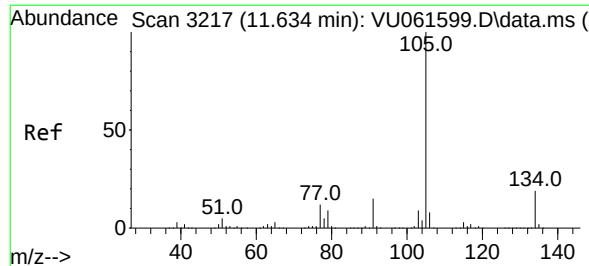
Delta R.T. 0.007 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion:	105	Resp:	37299
Ion Ratio	Lower	Upper	
105	100		
120	45.1	22.7	68.0





#79

sec-Butylbenzene

Concen: 0.813 ug/l

RT: 11.637 min Scan# 3217

Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion: 105 Resp: 48996

Ion Ratio Lower Upper

105 100

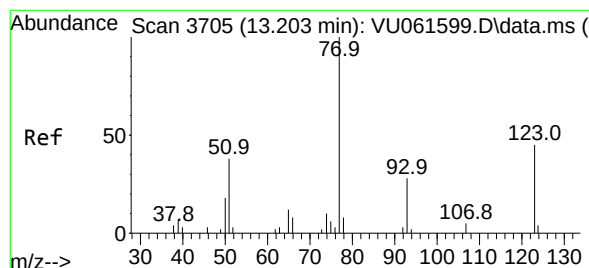
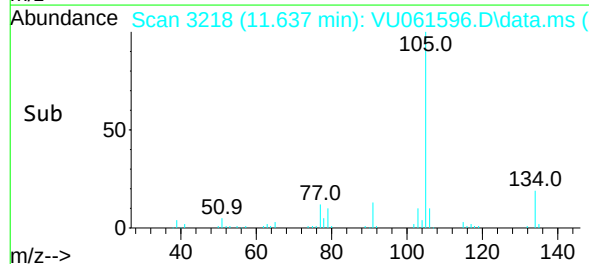
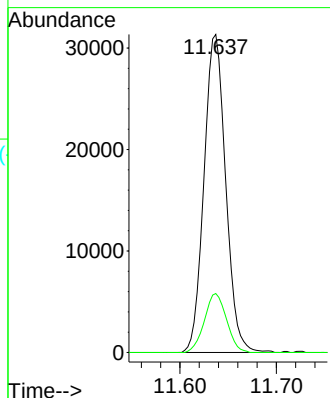
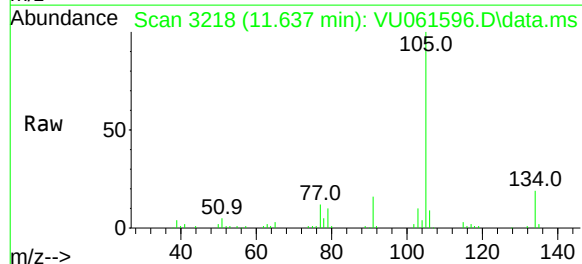
134 18.9 15.8 23.8

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#80

Nitrobenzene

Concen: 6.108 ug/l m

RT: 13.219 min Scan# 3710

Delta R.T. 0.016 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

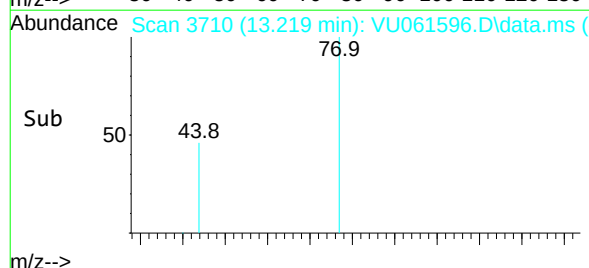
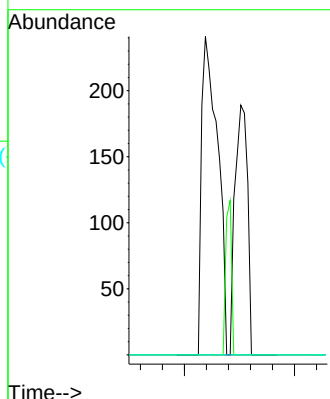
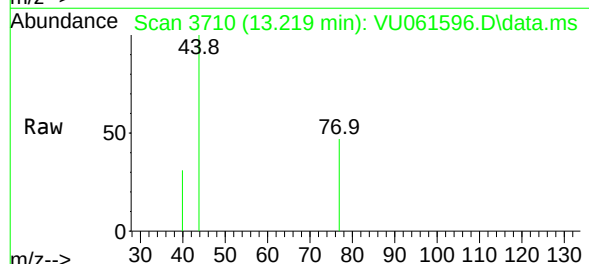
Tgt Ion: 77 Resp: 393

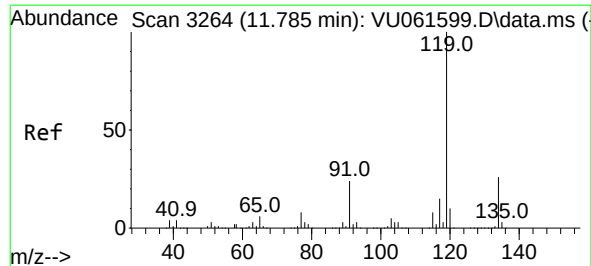
Ion Ratio Lower Upper

77 100

123 0.0 16.9 60.1#

65 0.0 9.4 12.0#





#81

p-Isopropyltoluene

Concen: 0.897 ug/l

RT: 11.785 min Scan# 32

Delta R.T. 0.000 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

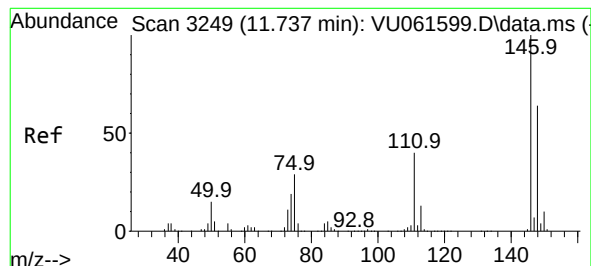
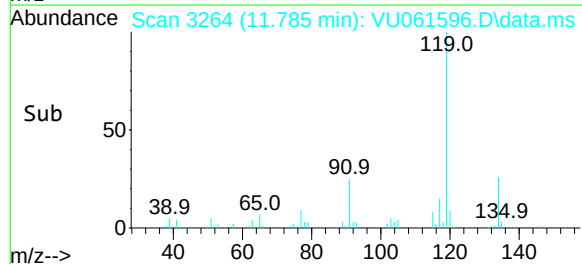
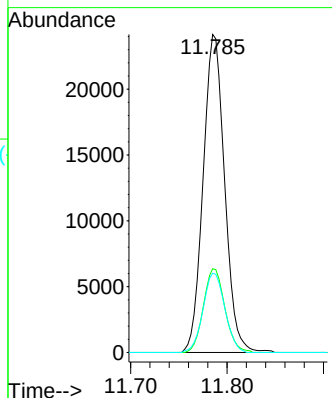
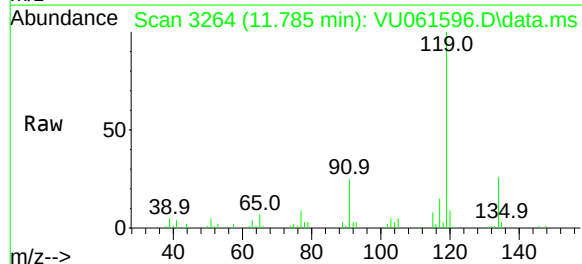
ClientSampleId :

VSTDIC001

Tgt Ion:	119	Resp:	37419
Ion	Ratio	Lower	Upper
119	100		
134	26.2	20.9	31.3
91	25.3	18.8	28.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#82

1,3-Dichlorobenzene

Concen: 0.856 ug/l

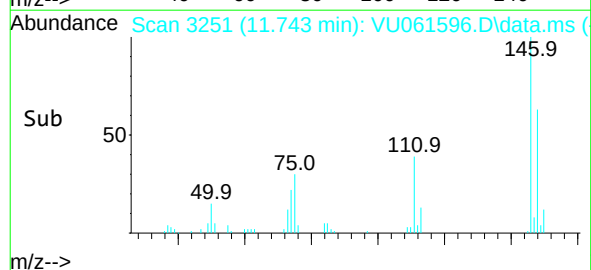
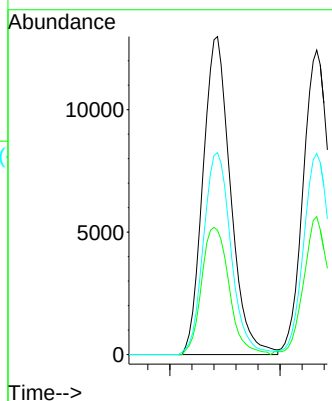
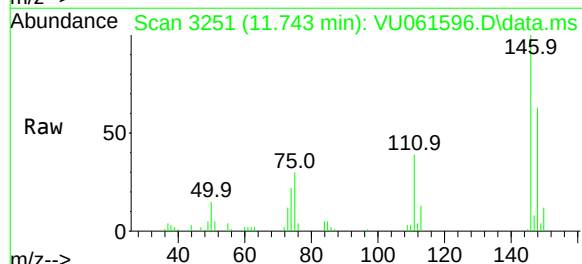
RT: 11.743 min Scan# 3251

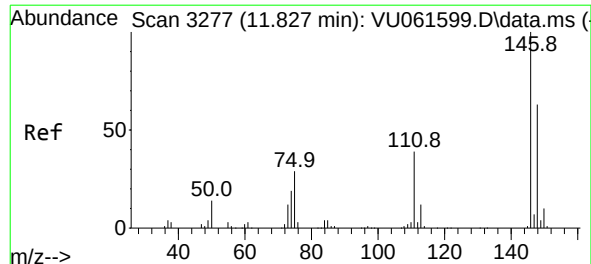
Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion:	146	Resp:	22590
Ion	Ratio	Lower	Upper
146	100		
111	39.8	32.6	49.0
148	63.2	51.0	76.4





#83

1,4-Dichlorobenzene

Concen: 0.840 ug/l

RT: 11.833 min Scan# 3277

Delta R.T. 0.007 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

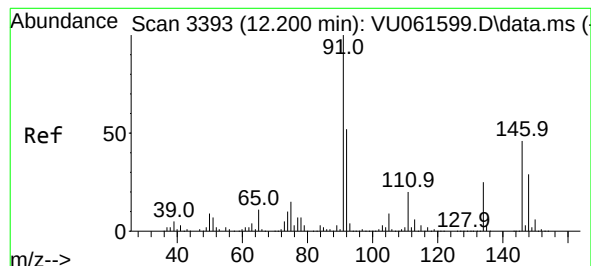
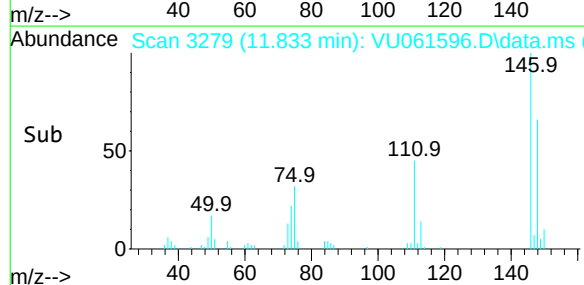
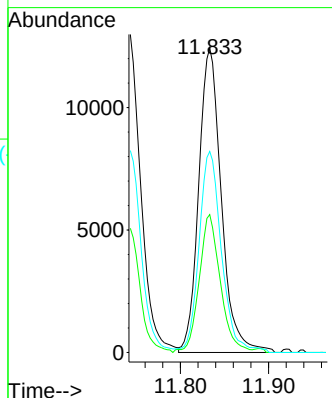
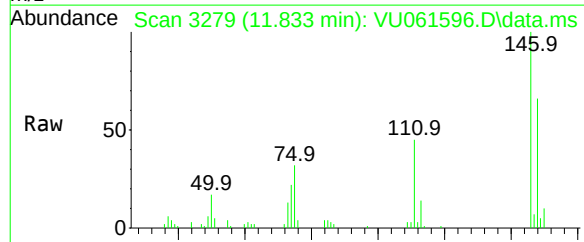
ClientSampleId :

VSTDICC001

Tgt Ion:	146	Resp:	22185
Ion	Ratio	Lower	Upper
146	100		
111	42.3	31.2	46.8
148	65.6	50.2	75.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#84

n-Butylbenzene

Concen: 0.906 ug/l

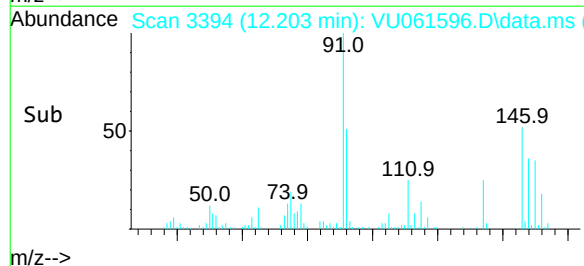
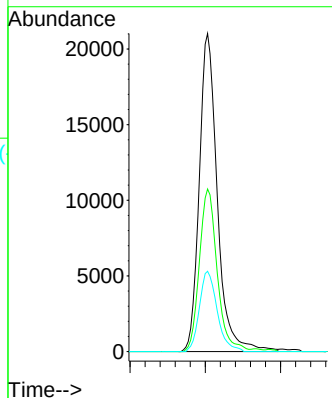
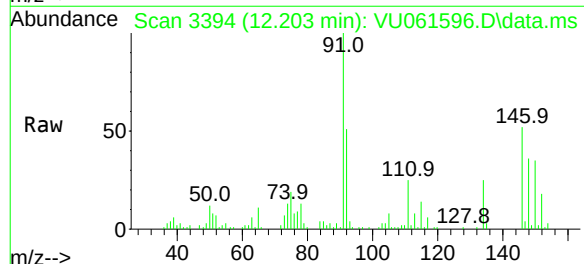
RT: 12.203 min Scan# 3394

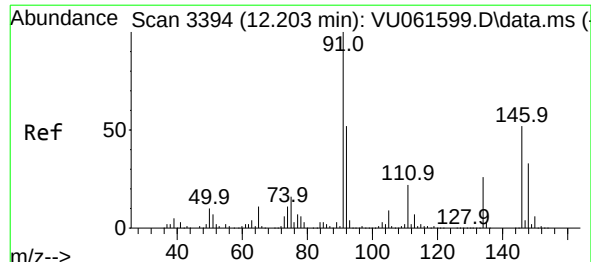
Delta R.T. 0.003 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt Ion:	91	Resp:	35029
Ion	Ratio	Lower	Upper
91	100		
92	50.4	41.8	62.6
134	24.9	20.2	30.4





#85

1,2-Dichlorobenzene

Concen: 0.843 ug/l

RT: 12.209 min Scan# 3394

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

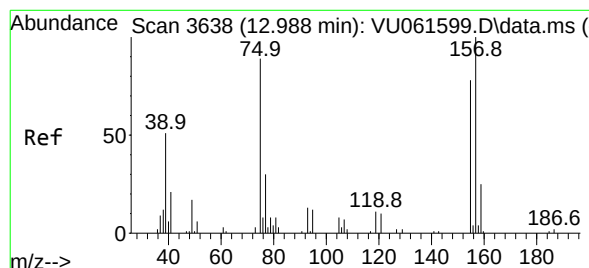
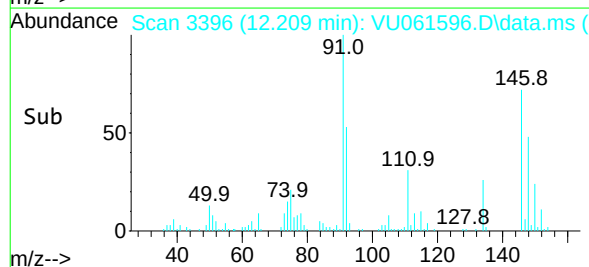
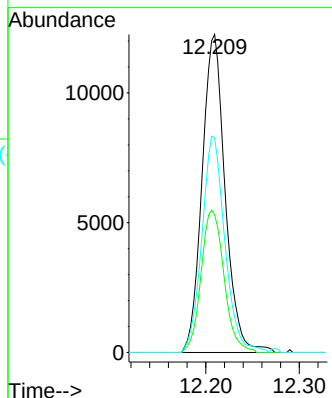
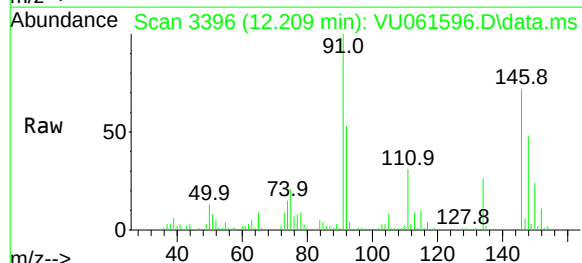
ClientSampleId :

VSTDIC001

Tgt	Ion	146	Resp:	20984
Ion	Ratio	Lower	Upper	
146	100			
111	44.4	21.3	63.9	
148	68.0	32.0	96.2	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#86

1,2-Dibromo-3-Chloropropane

Concen: 0.984 ug/l

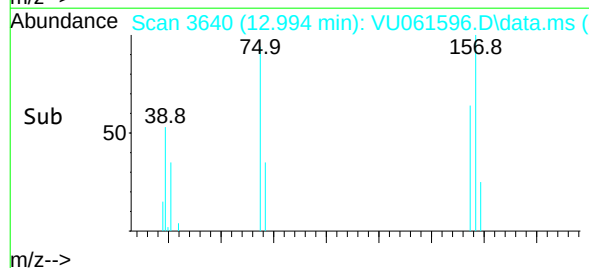
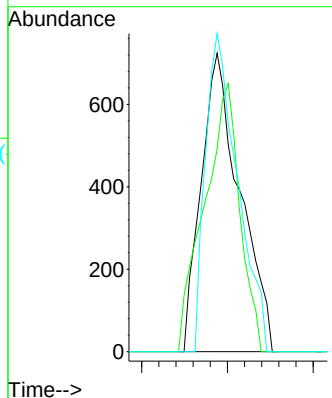
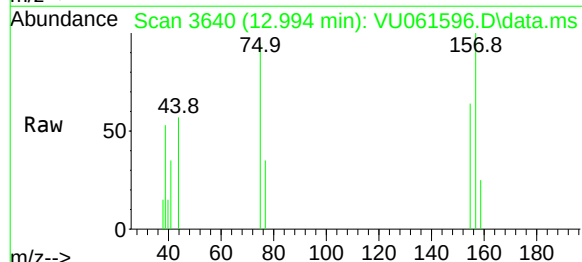
RT: 12.994 min Scan# 3640

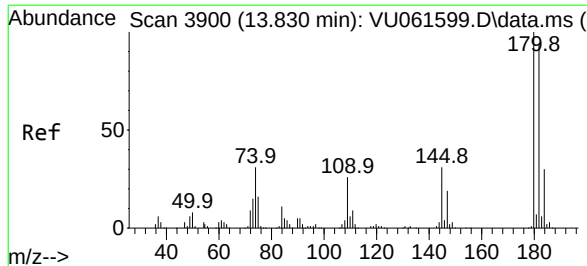
Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Tgt	Ion	75	Resp:	1133
Ion	Ratio	Lower	Upper	
75	100			
155	82.3	68.8	103.2	
157	88.5	88.2	132.4	





#87

1,2,4-Trichlorobenzene

Concen: 1.020 ug/l

RT: 13.836 min Scan# 3900

Delta R.T. 0.006 min

Lab File: VU061596.D

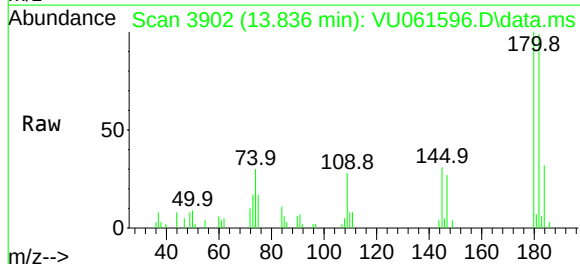
Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

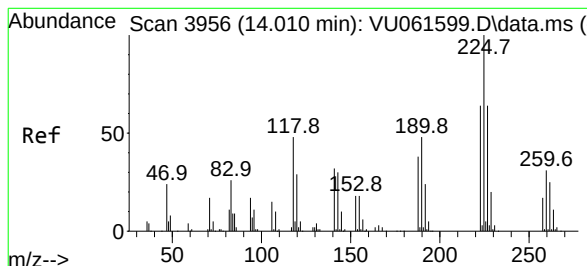
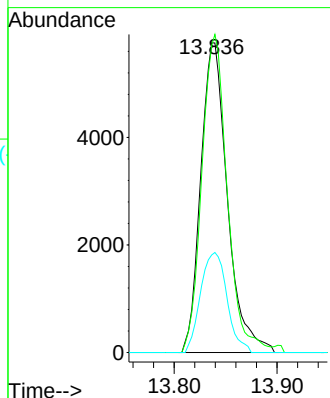
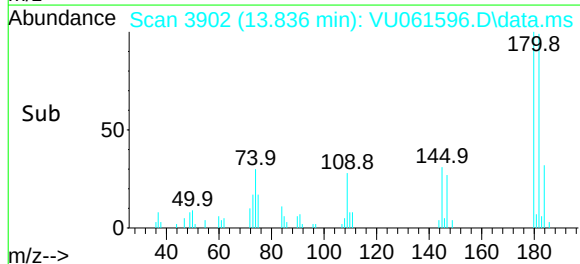
VSTDICC001



Tgt Ion:	180	Resp:	10383
Ion Ratio	Lower	Upper	
180	100		
182	97.9	75.3	112.9
145	32.0	24.3	36.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#88

Hexachlorobutadiene

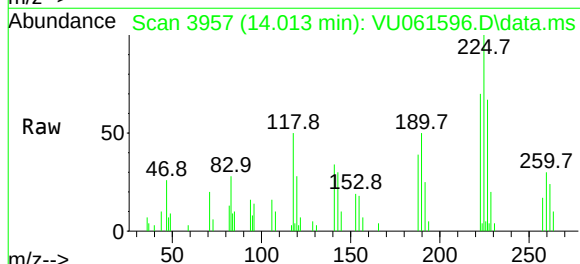
Concen: 0.852 ug/l

RT: 14.013 min Scan# 3957

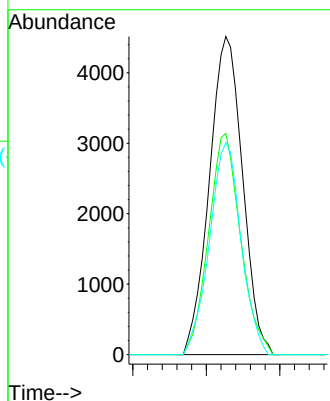
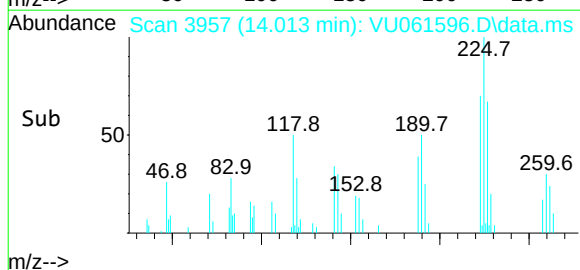
Delta R.T. 0.003 min

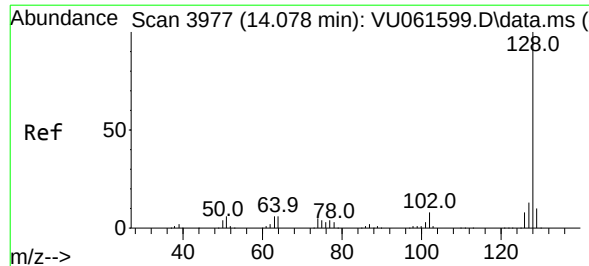
Lab File: VU061596.D

Acq: 12 Nov 2024 09:32



Tgt Ion:	225	Resp:	7082
Ion Ratio	Lower	Upper	
225	100		
223	66.8	50.8	76.2
227	63.4	51.2	76.8





#89

Naphthalene

Concen: 1.089 ug/l

RT: 14.090 min Scan# 39

Delta R.T. 0.013 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC001

Tgt Ion:128 Resp: 15413

Ion Ratio Lower Upper

128 100

127 12.3 10.3 15.5

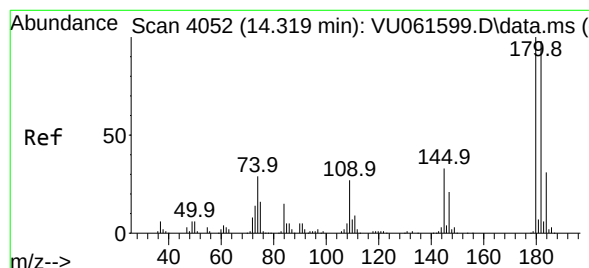
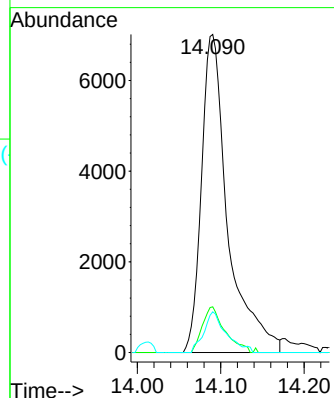
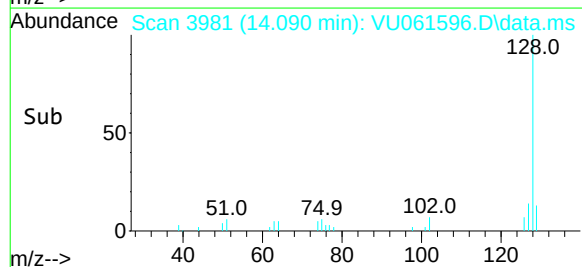
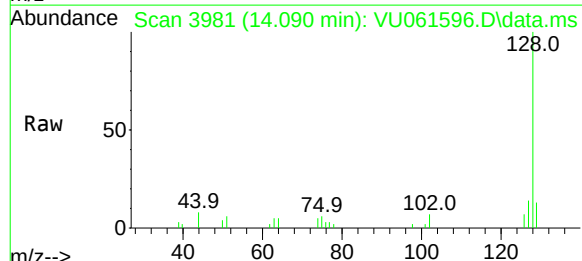
129 10.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#90

1,2,3-Trichlorobenzene

Concen: 1.060 ug/l

RT: 14.325 min Scan# 4054

Delta R.T. 0.006 min

Lab File: VU061596.D

Acq: 12 Nov 2024 09:32

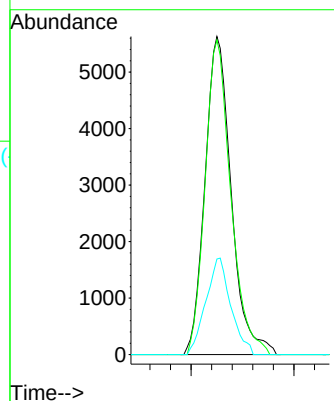
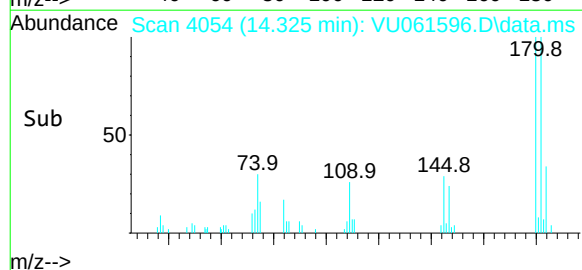
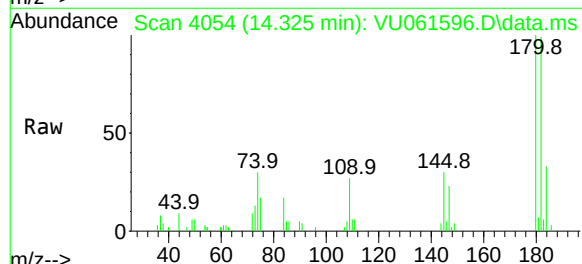
Tgt Ion:180 Resp: 9970

Ion Ratio Lower Upper

180 100

182 96.7 77.9 116.9

145 28.8 25.9 38.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061597.D
 Acq On : 12 Nov 2024 09:57
 Operator : MD/SY
 Sample : VSTDICC002
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:41:56 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.110	96	47683	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	15500	0.937	ug/l	0.00
Spiked Amount	1.000		Recovery	=	94.000%	
68) 1,2-Dichlorobenzene-d4	12.187	152	16526	1.003	ug/l	0.00
Spiked Amount	1.000		Recovery	=	100.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	22511	1.837	ug/l	99
3) Chloromethane	1.518	50	22638	1.931	ug/l	99
4) Vinyl Chloride	1.602	62	25060	1.900	ug/l	100
5) Bromomethane	1.856	94	15196	1.825	ug/l	100
6) Chloroethane	1.930	64	17861	1.674	ug/l	97
7) Trichlorofluoromethane	2.133	101	35181	1.864	ug/l	100
8) 1,1,2-Trichloro-1,2,2-...	2.573	101	19405	1.921	ug/l	98
9) 1,1-Dichloroethene	2.576	96	19195	1.813	ug/l	96
10) Iodomethane	2.718	142	15647	1.891	ug/l	98
11) Allyl Chloride	2.920	41	22400	1.829	ug/l	99
12) Acrylonitrile	3.335	53	7990m	3.816	ug/l	
13) Acetone	2.647	43	25432	8.703	ug/l	99
14) Carbon Disulfide	2.788	76	62582	1.830	ug/l	99
15) Methylene Chloride	3.039	84	23756	1.858	ug/l	96
16) trans-1,2-Dichloroethene	3.348	96	22530	1.832	ug/l	93
17) 1,1-Dichloroethane	3.862	63	40768	1.859	ug/l	99
18) 2-Butanone	4.721	43	31897	9.412	ug/l	98
19) Cyclohexane	5.377	56	31537m	1.773	ug/l	
20) Methylcyclohexane	6.753	83	35820	1.795	ug/l	99
21) 2,2-Dichloropropane	4.650	77	31900	1.809	ug/l	99
22) cis-1,2-Dichloroethene	4.663	96	25010	1.864	ug/l	99
23) Diethyl Ether	2.370	59	14882	1.886	ug/l	98
24) tert-Butyl Alcohol	3.248	59	13398m	16.653	ug/l	
25) Methyl tert-Butyl Ether	3.358	73	47756	1.840	ug/l	95
26) Bromochloromethane	4.965	128	10681	1.807	ug/l	96
27) Chloroform	5.078	83	43328	1.863	ug/l	96
28) 1,1,1-Trichloroethane	5.309	97	35600	1.852	ug/l	98
29) 1,1-Dichloropropene	5.521	75	31869	1.846	ug/l	98
30) Carbon Tetrachloride	5.515	117	30257	1.837	ug/l	96
31) Isopropyl Ether	3.981	45	53267	1.825	ug/l	97
32) Ethyl-t-butyl ether	4.489	59	49698	1.782	ug/l	99
33) Tert-Amyl methyl ether	5.930	73	46289	1.836	ug/l	99
34) Propionitrile	4.808	54	7909m	9.987	ug/l	
35) Benzene	5.766	78	95849	1.863	ug/l	100
36) 1,2-Dichloroethane	5.788	62	26253	1.836	ug/l	100
37) Trichloroethene	6.537	130	24986	1.834	ug/l	99
38) 1,2-Dichloropropane	6.782	63	23603	1.827	ug/l	100
39) Methacrylonitrile	4.988	41	5247	1.851	ug/l	# 78
40) Methyl acrylate	4.866	55	10708m	2.087	ug/l	
41) Tetrahydrofuran	5.065	42	5650	3.529	ug/l	99
42) 1-Chlorobutane	5.451	56	41005	1.903	ug/l	97
43) Dibromomethane	6.914	93	12572	1.837	ug/l	97
44) Bromodichloromethane	7.097	83	28400	1.838	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061597.D
 Acq On : 12 Nov 2024 09:57
 Operator : MD/SY
 Sample : VSTDICC002
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:41:56 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.785	43	56791	8.922	ug/l	98
46) t-1,4-Dichloro-2-butene	10.814	75	14070m	3.998	ug/l	
47) Methyl methacrylate	6.959	69	19777	3.641	ug/l	99
48) Ethyl methacrylate	8.328	69	19350	1.753	ug/l	98
49) Toluene	7.962	92	56513	1.798	ug/l	97
50) t-1,3-Dichloropropene	8.206	75	24047	1.739	ug/l	98
51) cis-1,3-Dichloropropene	7.602	75	31382	1.769	ug/l	95
52) 1,1,2-Trichloroethane	8.393	97	17235	1.837	ug/l	95
53) 1,3-Dichloropropane	8.566	76	30032	1.876	ug/l	99
54) 2-Hexanone	8.682	43	47087	8.682	ug/l	99
55) Dibromochloromethane	8.801	129	17637	1.737	ug/l	99
56) 1,2-Dibromoethane	8.917	107	16461	1.867	ug/l	96
58) Tetrachloroethene	8.544	164	23118	1.886	ug/l	98
59) Chlorobenzene	9.441	112	63733	1.836	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.525	131	20628	1.800	ug/l	98
61) Pentachloroethane	11.418	117	14972	1.737	ug/l	97
62) Hexachloroethane	12.463	117	13200	1.729	ug/l	91
63) Ethyl Benzene	9.563	91	104015	1.780	ug/l	99
64) m/p-Xylenes	9.685	106	81242	3.609	ug/l	98
65) o-Xylene	10.094	106	38253	1.743	ug/l	96
66) Styrene	10.110	104	58200	1.695	ug/l	99
67) Bromoform	10.280	173	9013	1.711	ug/l	98
69) Isopropylbenzene	10.476	105	90437	1.762	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.772	83	21260	1.841	ug/l	97
71) 1,2,3-Trichloropropane	10.814	75	17026m	1.809	ug/l	
72) Bromobenzene	10.775	156	24207	1.778	ug/l	97
73) n-propylbenzene	10.897	120	26717	1.760	ug/l	96
74) 2-Chlorotoluene	10.978	126	24103	1.780	ug/l	97
75) 1,3,5-Trimethylbenzene	11.081	105	81811	1.760	ug/l	100
76) 4-Chlorotoluene	11.090	126	25052	1.799	ug/l	98
77) tert-Butylbenzene	11.412	119	80664	1.778	ug/l	100
78) 1,2,4-Trimethylbenzene	11.460	105	80780	1.688	ug/l	99
79) sec-Butylbenzene	11.634	105	107322	1.784	ug/l	99
80) Nitrobenzene	13.222	77	1195m	9.502	ug/l	
81) p-Isopropyltoluene	11.785	119	84670	1.699	ug/l	99
82) 1,3-Dichlorobenzene	11.740	146	46782	1.777	ug/l	99
83) 1,4-Dichlorobenzene	11.830	146	46524	1.766	ug/l	97
84) n-Butylbenzene	12.200	91	78185	1.702	ug/l	98
85) 1,2-Dichlorobenzene	12.203	146	44588	1.795	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.994	75	2475	1.708	ug/l	94
87) 1,2,4-Trichlorobenzene	13.833	180	23780	1.769	ug/l	98
88) Hexachlorobutadiene	14.013	225	15118	1.822	ug/l	99
89) Naphthalene	14.084	128	34857	1.721	ug/l	100
90) 1,2,3-Trichlorobenzene	14.322	180	21000	1.733	ug/l	98

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

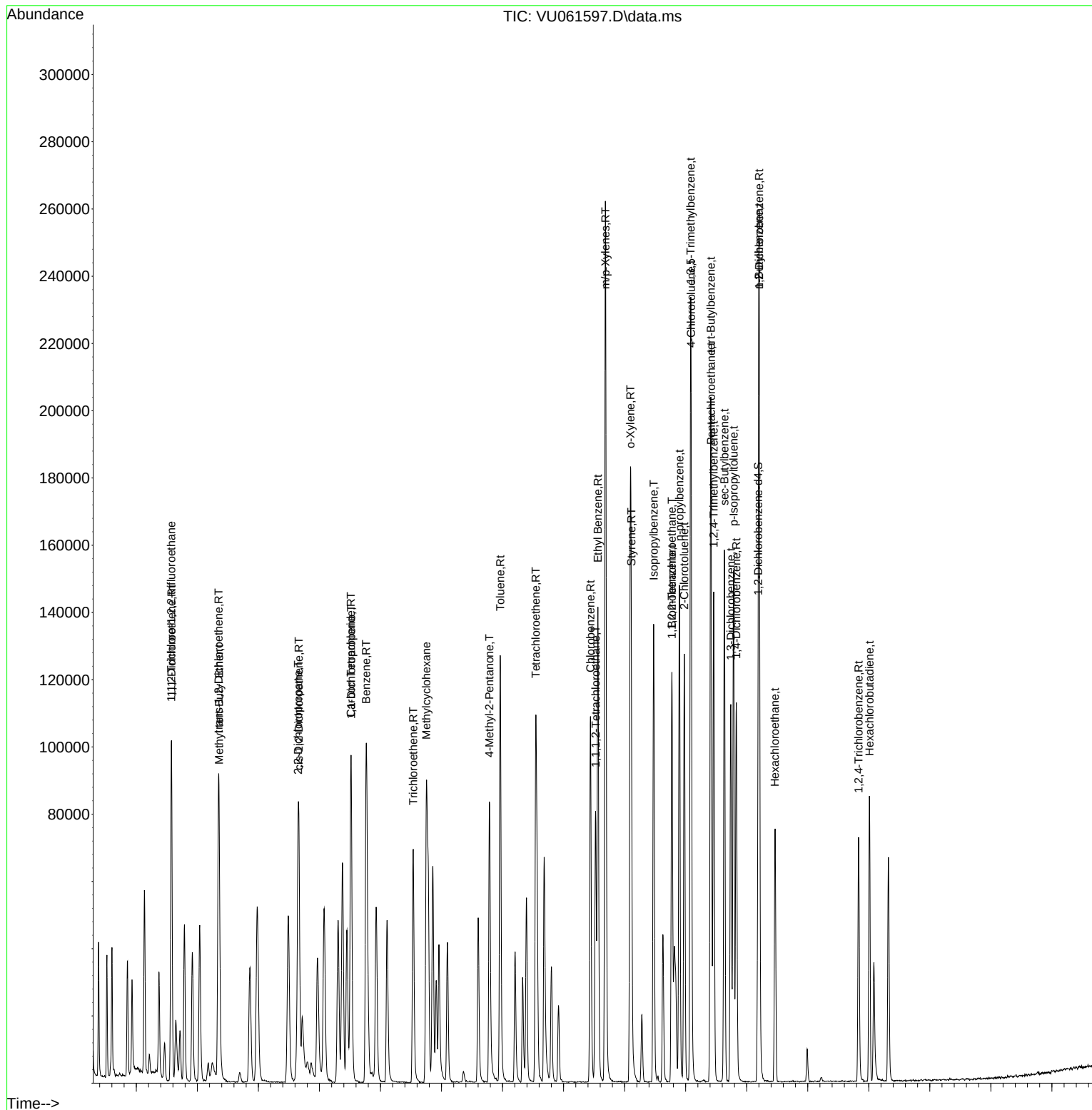
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Data File : VU061597.D  
Acq On    : 12 Nov 2024   09:57  
Operator  : MD/SY  
Sample    : VSTDICC002  
Misc      : 25mL/MSVOA_U/WATER  
ALS Vial  : 1   Sample Multiplier: 1
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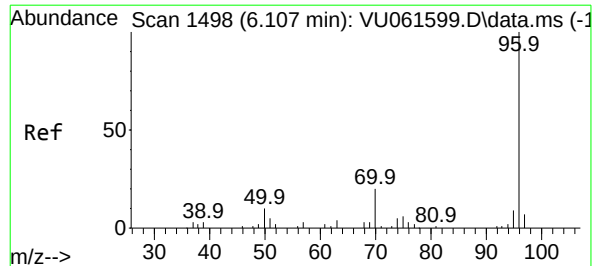
Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:41:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 04:39:24 2024
Response via : Initial Calibration





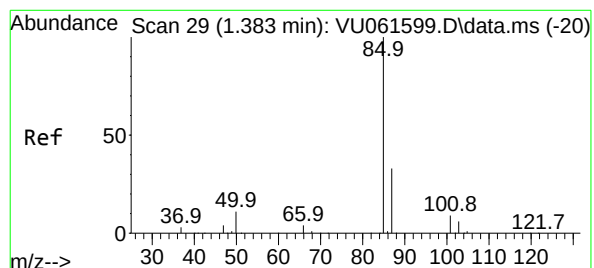
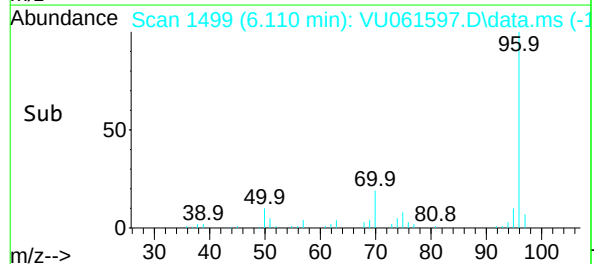
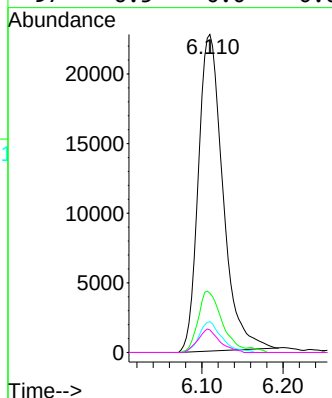
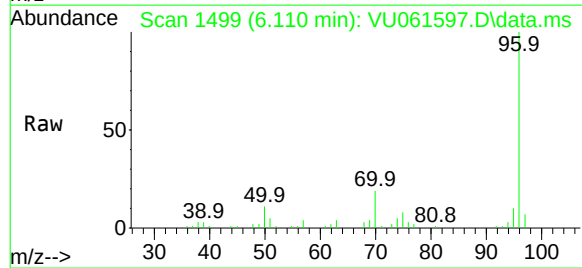
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU061597.D
Acq: 12 Nov 2024 09:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC002

Tgt Ion	Ratio	Lower	Upper
96	100		
70	17.3	15.8	23.6
95	9.0	7.3	10.9
97	6.5	0.0	0.0

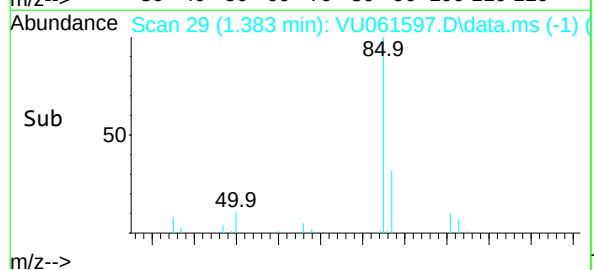
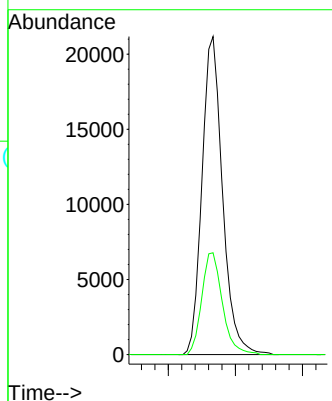
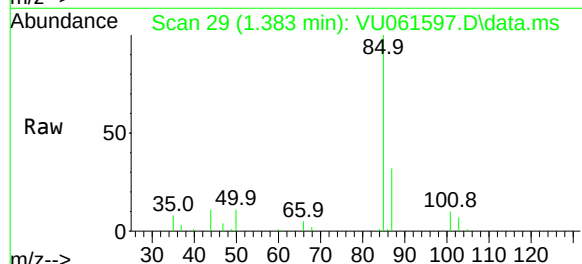
Manual Integrations
APPROVED

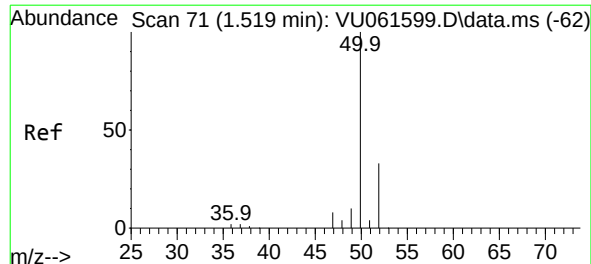
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#2
Dichlorodifluoromethane
Concen: 1.837 ug/l
RT: 1.383 min Scan# 29
Delta R.T. -0.000 min
Lab File: VU061597.D
Acq: 12 Nov 2024 09:57

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.4	49.2





#3

Chloromethane

Concen: 1.931 ug/l

RT: 1.518 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 50 Resp: 22638

Ion Ratio Lower Upper

50 100

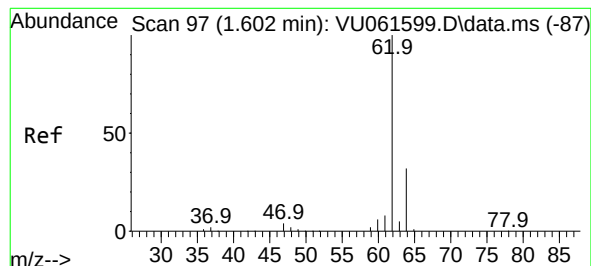
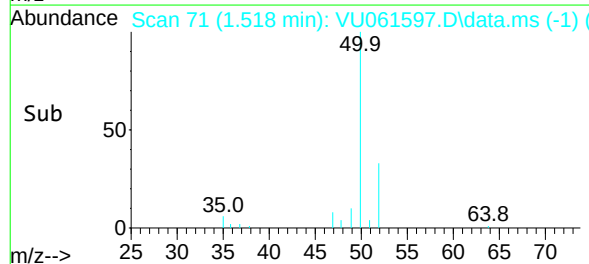
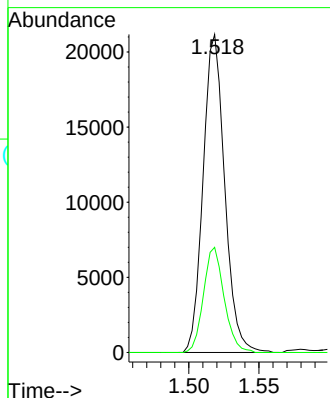
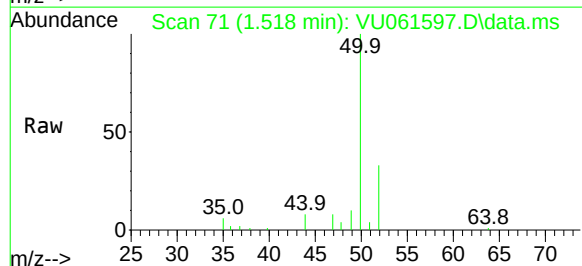
52 33.1 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 1.900 ug/l

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU061597.D

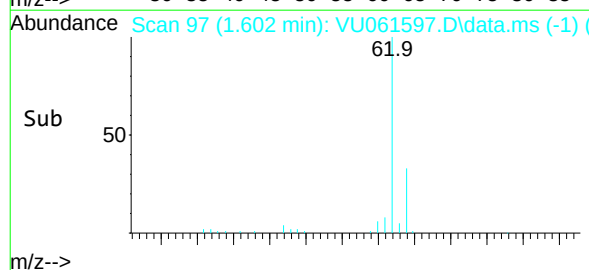
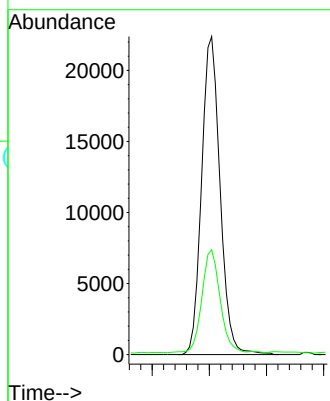
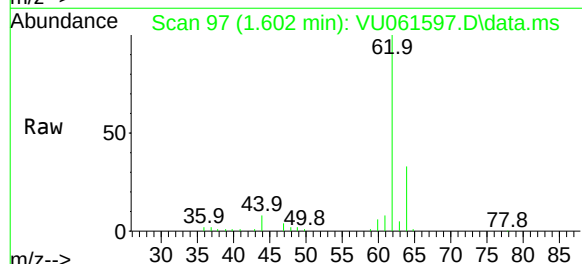
Acq: 12 Nov 2024 09:57

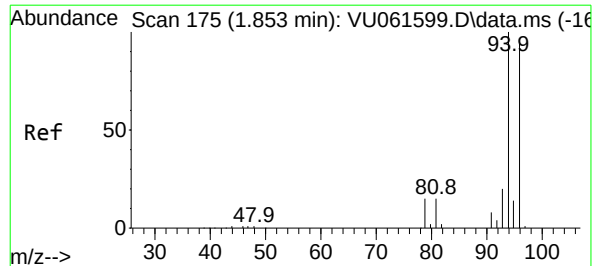
Tgt Ion: 62 Resp: 25060

Ion Ratio Lower Upper

62 100

64 32.1 25.6 38.4





#5

Bromomethane

Concen: 1.825 ug/l

RT: 1.856 min Scan# 17

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 94 Resp: 15196

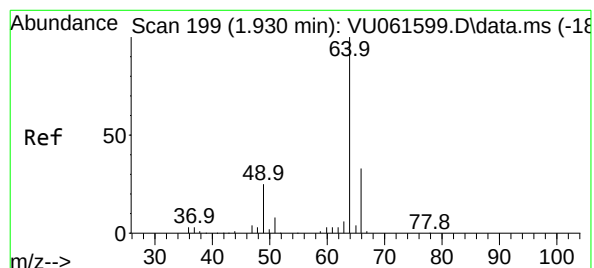
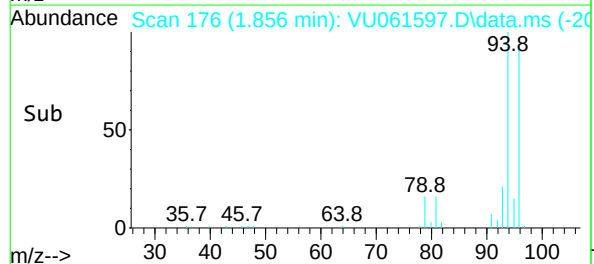
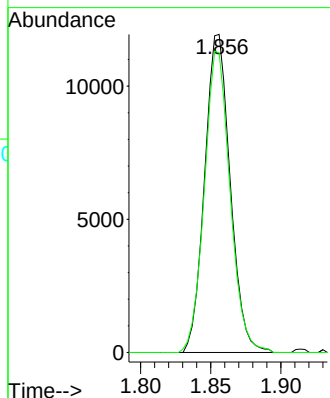
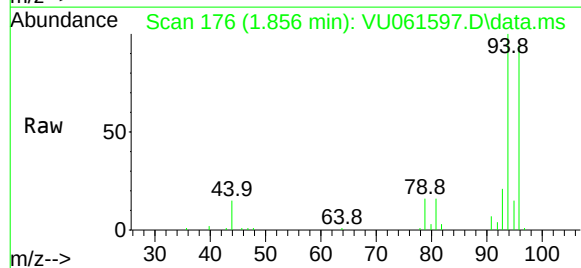
Ion Ratio Lower Upper

94 100

96 94.2 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#6

Chloroethane

Concen: 1.674 ug/l

RT: 1.930 min Scan# 199

Delta R.T. -0.000 min

Lab File: VU061597.D

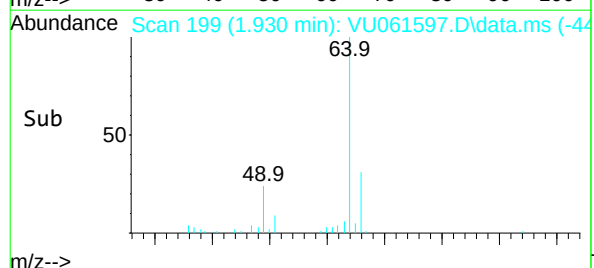
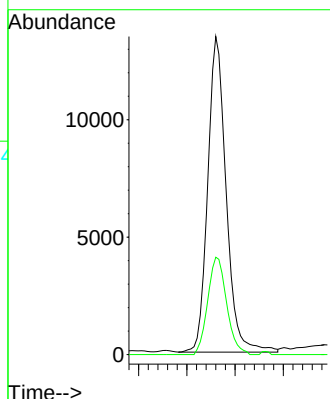
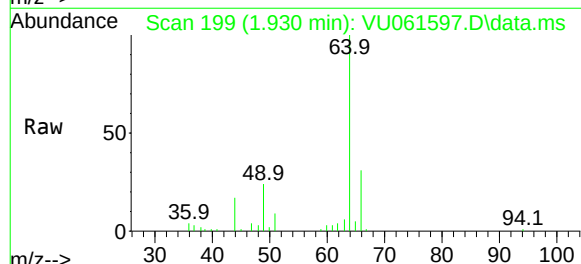
Acq: 12 Nov 2024 09:57

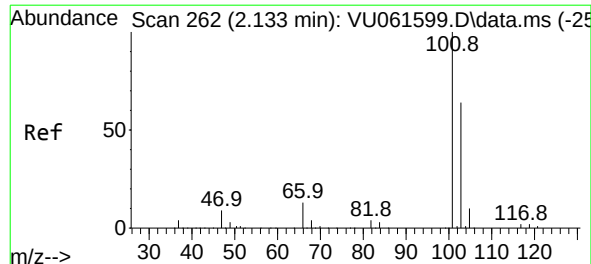
Tgt Ion: 64 Resp: 17861

Ion Ratio Lower Upper

64 100

66 30.9 26.2 39.2





#7

Trichlorofluoromethane

Concen: 1.864 ug/l

RT: 2.133 min Scan# 262

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion:101 Resp: 35181

Ion Ratio Lower Upper

101 100

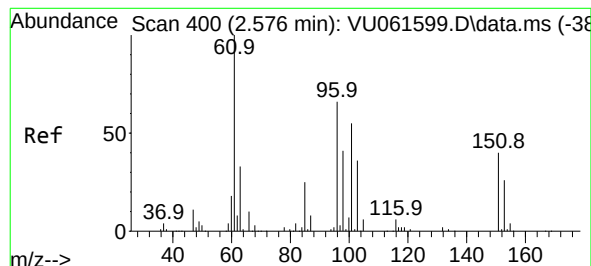
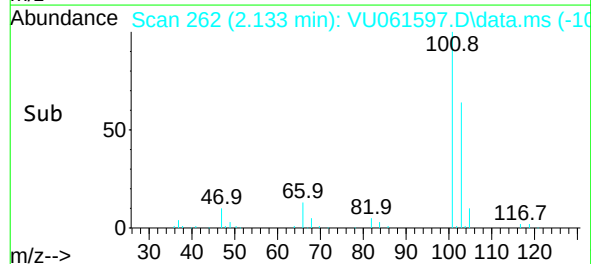
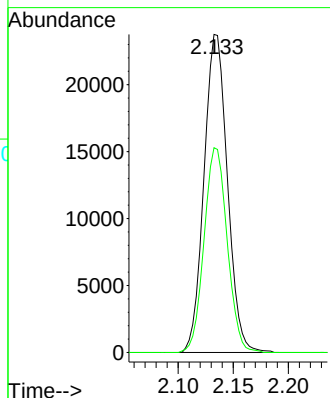
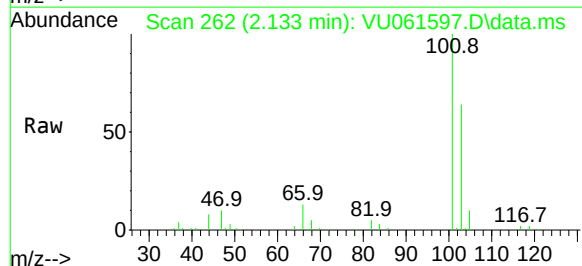
103 64.4 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.921 ug/l

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

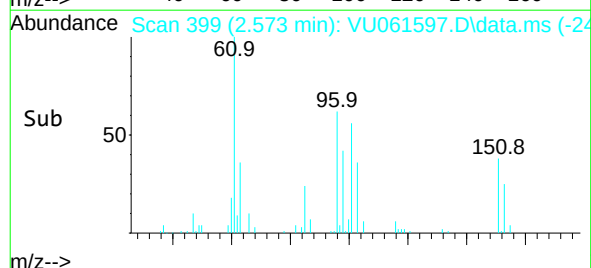
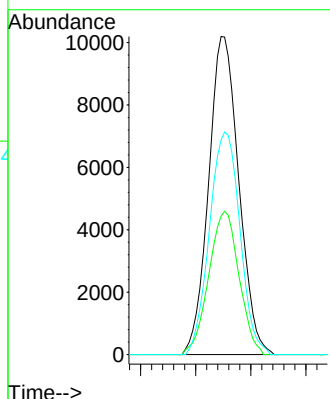
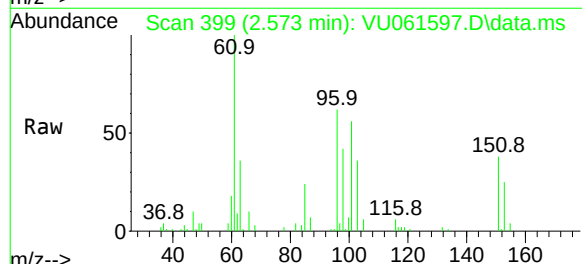
Tgt Ion:101 Resp: 19405

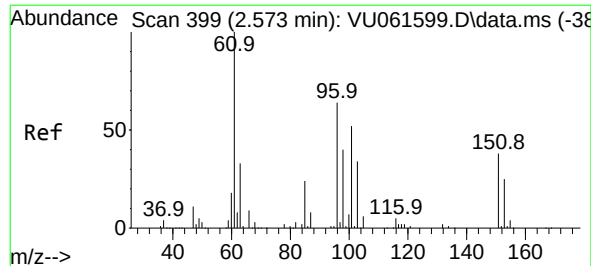
Ion Ratio Lower Upper

101 100

85 45.0 36.0 54.0

151 70.7 58.6 87.8





#9

1,1-Dichloroethene

Concen: 1.813 ug/l

RT: 2.576 min Scan# 40

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

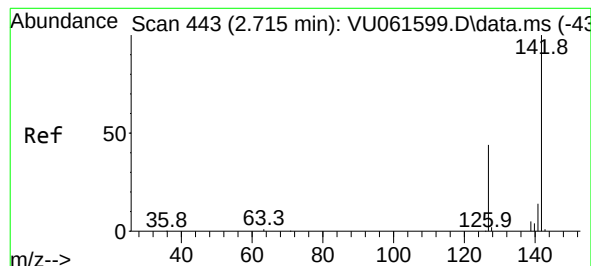
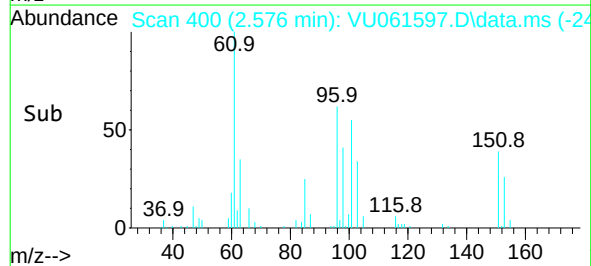
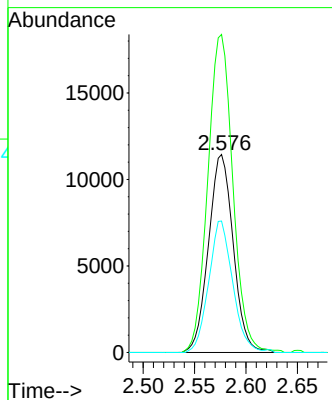
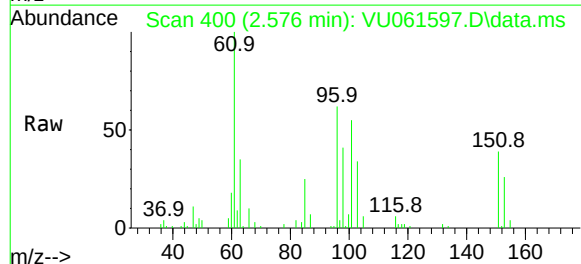
ClientSampleId :

VSTDICC002

Tgt	Ion:	96	Resp:	19195
Ion	Ratio	Lower	Upper	
96	100			
61	160.6	0.0	467.7	
98	66.4	0.0	125.4	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#10

Iodomethane

Concen: 1.891 ug/l

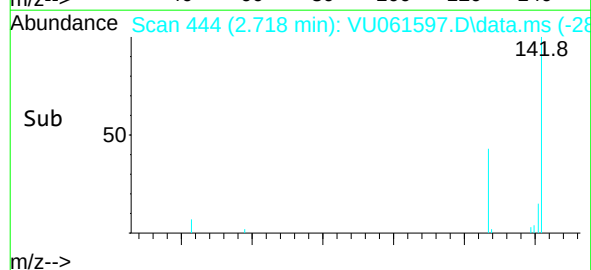
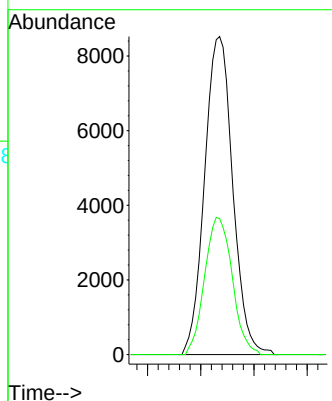
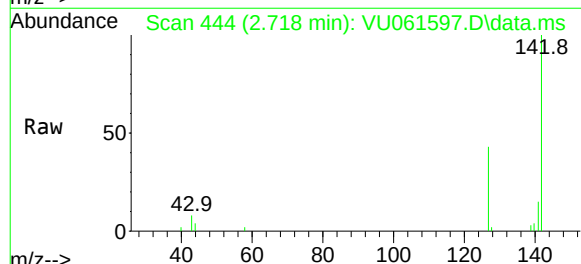
RT: 2.718 min Scan# 444

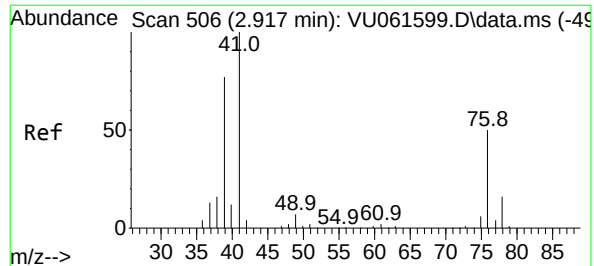
Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt	Ion:	142	Resp:	15647
Ion	Ratio	Lower	Upper	
142	100			
127	42.3	34.8	52.2	





#11

Allyl Chloride

Concen: 1.829 ug/l

RT: 2.920 min Scan# 506

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion: 41 Resp: 22400

Ion Ratio Lower Upper

41 100

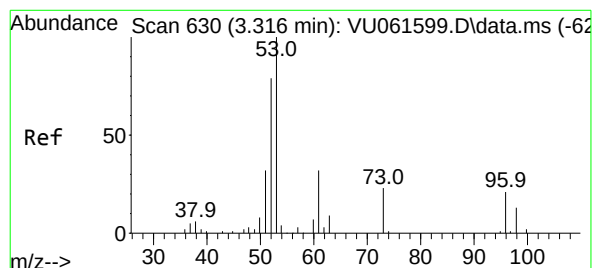
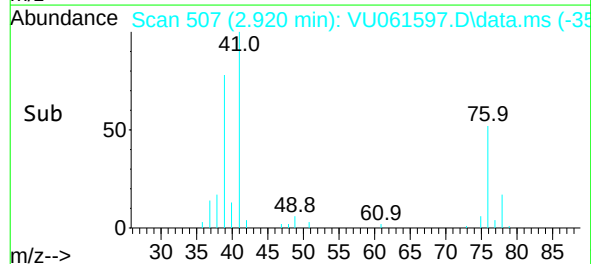
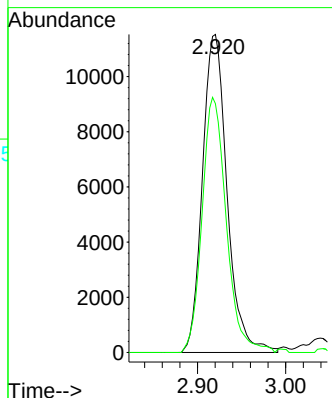
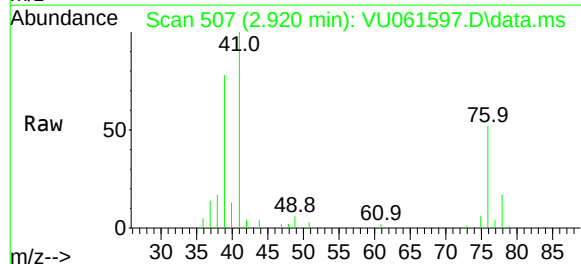
39 79.1 62.2 93.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#12

Acrylonitrile

Concen: 3.816 ug/l m

RT: 3.335 min Scan# 636

Delta R.T. 0.019 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

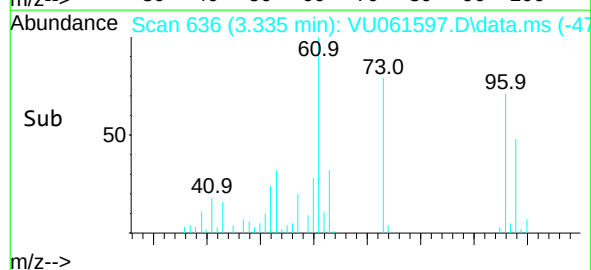
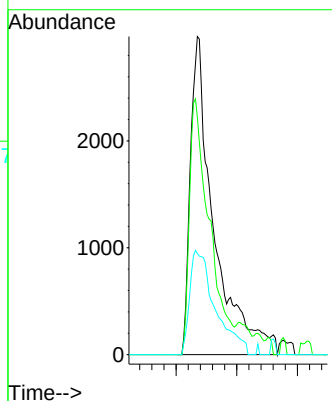
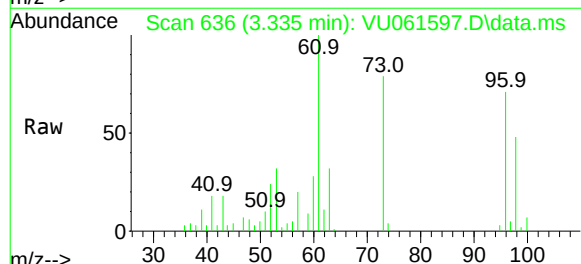
Tgt Ion: 53 Resp: 7990

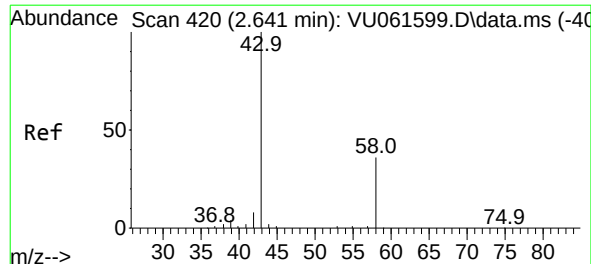
Ion Ratio Lower Upper

53 100

52 68.6 62.1 93.1

51 35.5 30.9 46.3





#13

Acetone

Concen: 8.703 ug/l

RT: 2.647 min Scan# 420

Delta R.T. 0.006 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 43 Resp: 25432

Ion Ratio Lower Upper

43 100

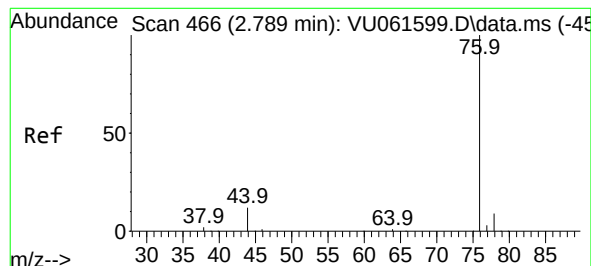
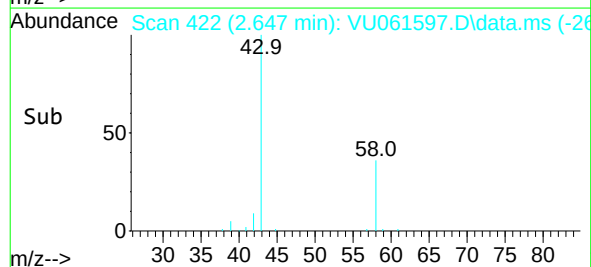
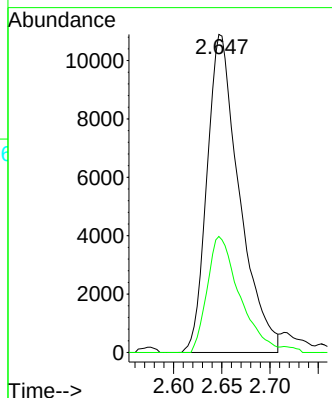
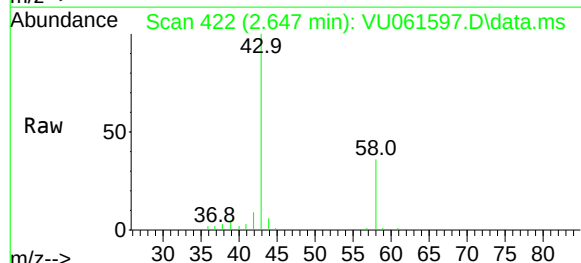
58 36.5 28.5 42.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#14

Carbon Disulfide

Concen: 1.830 ug/l

RT: 2.788 min Scan# 466

Delta R.T. -0.000 min

Lab File: VU061597.D

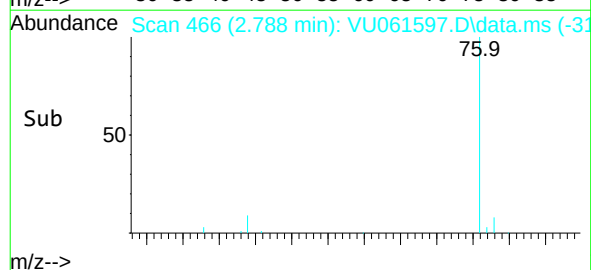
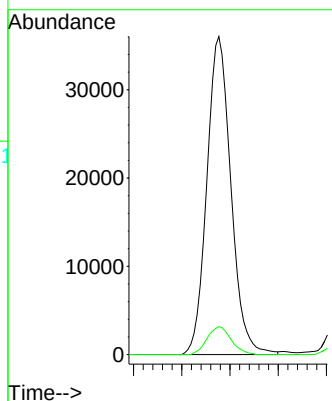
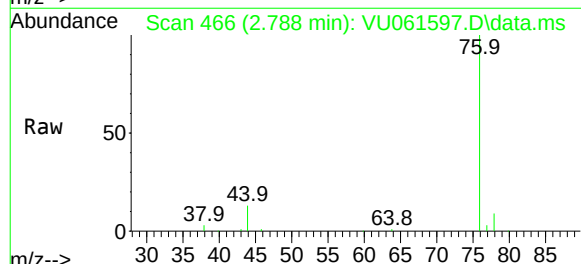
Acq: 12 Nov 2024 09:57

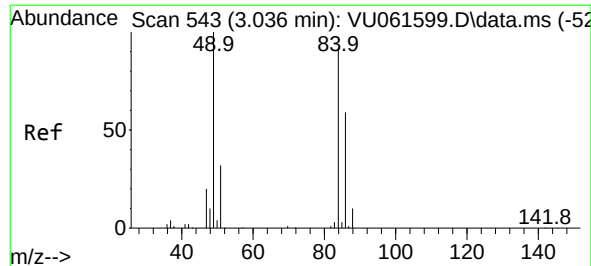
Tgt Ion: 76 Resp: 62582

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9





#15

Methylene Chloride

Concen: 1.858 ug/l

RT: 3.039 min Scan# 54

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 84 Resp: 23756

Ion Ratio Lower Upper

84 100

49 105.7 87.4 131.0

51 31.6 0.0 69.6

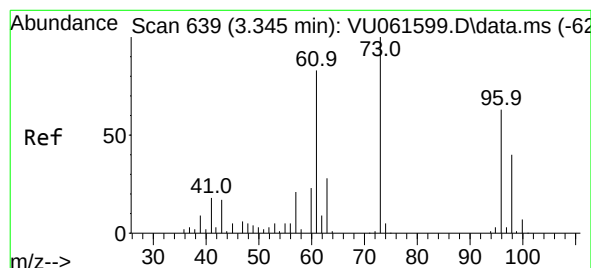
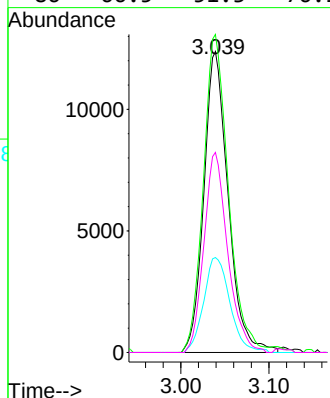
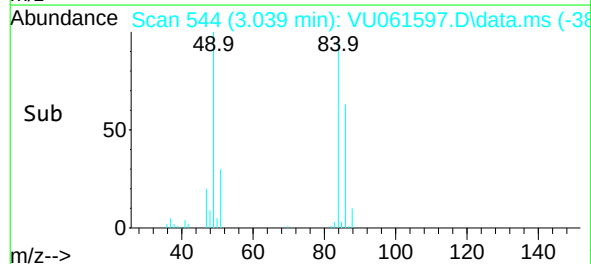
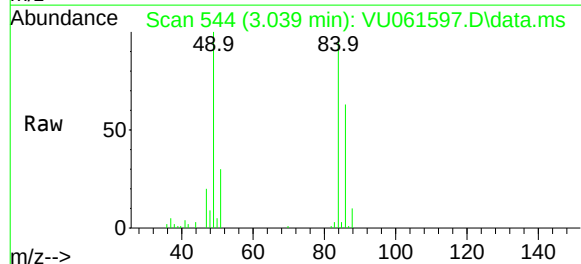
86 66.5 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#16

trans-1,2-Dichloroethene

Concen: 1.832 ug/l

RT: 3.348 min Scan# 640

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

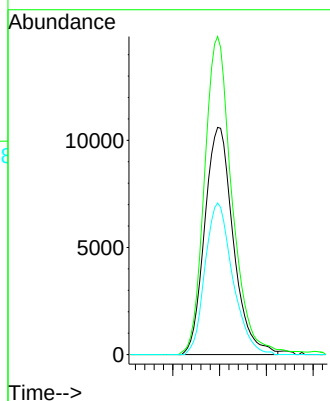
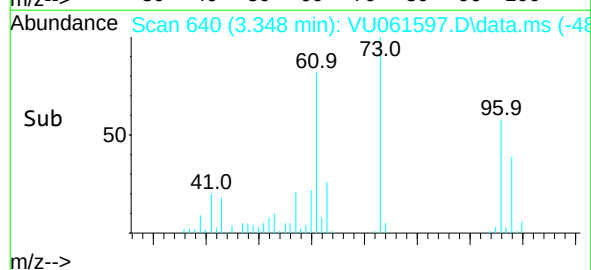
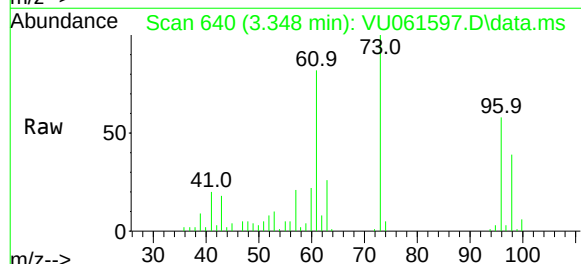
Tgt Ion: 96 Resp: 22530

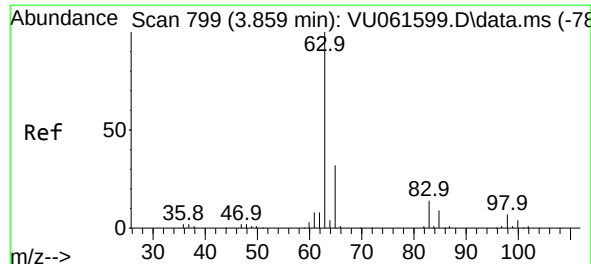
Ion Ratio Lower Upper

96 100

61 140.0 105.0 157.4

98 66.7 50.4 75.6





#17

1,1-Dichloroethane

Concen: 1.859 ug/l

RT: 3.862 min Scan# 80

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

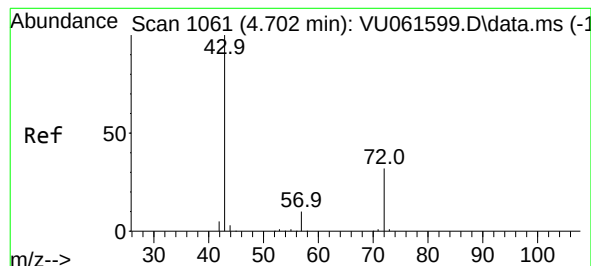
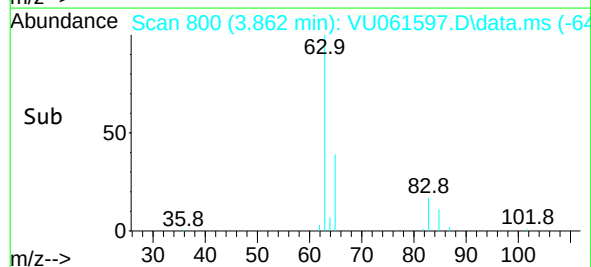
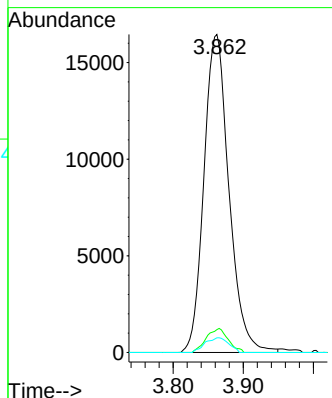
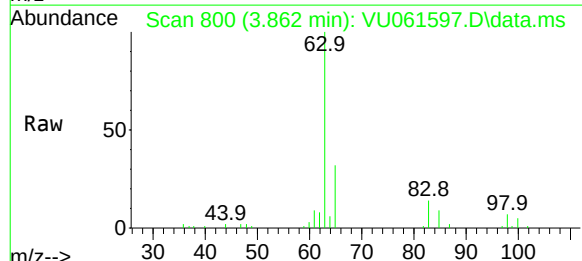
ClientSampleId :

VSTDICC002

Tgt Ion:	63	Resp:	40768
Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.4	10.2
100	4.6	2.2	6.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#18

2-Butanone

Concen: 9.412 ug/l

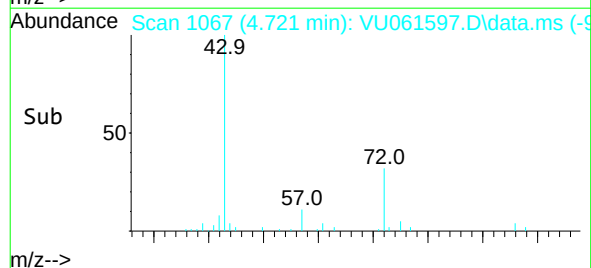
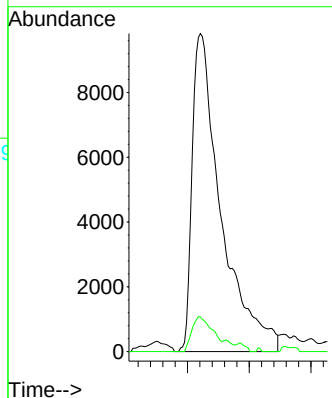
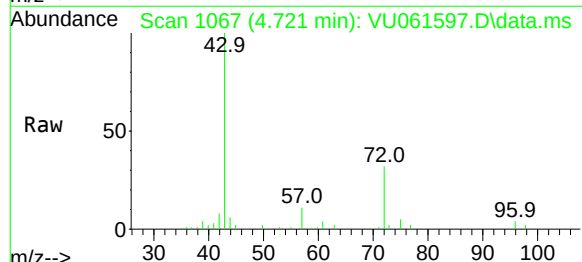
RT: 4.721 min Scan# 1067

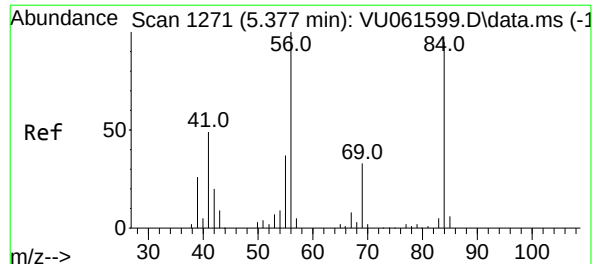
Delta R.T. 0.019 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	43	Resp:	31897
Ion	Ratio	Lower	Upper
43	100		
57	10.8	0.0	20.0





#19

Cyclohexane

Concen: 1.773 ug/l m

RT: 5.377 min Scan# 12

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

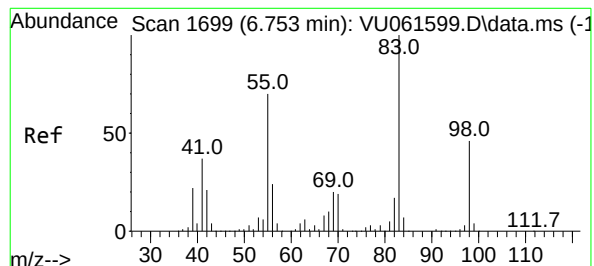
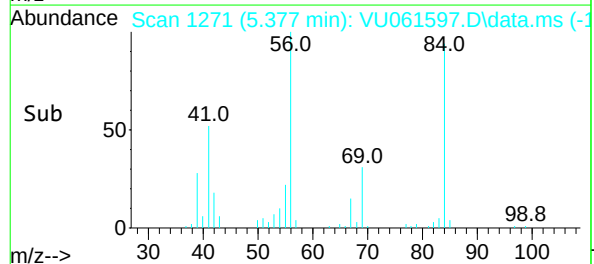
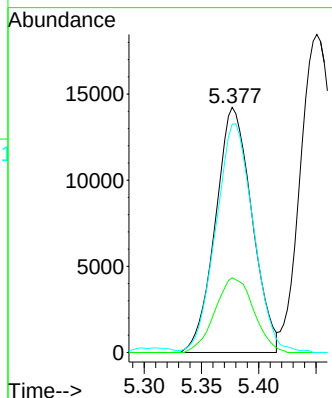
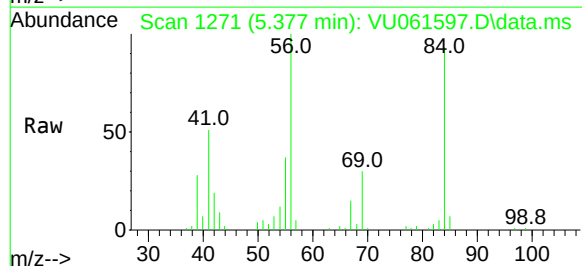
ClientSampleId :

VSTDIC002

Tgt Ion:	56	Resp:	31537
Ion	Ratio	Lower	Upper
56	100		
69	32.3	26.3	39.5
84	94.9	73.4	110.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#20

Methylcyclohexane

Concen: 1.795 ug/l

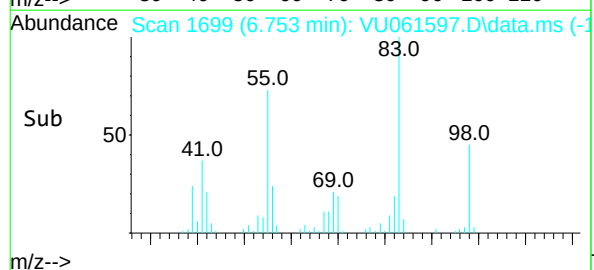
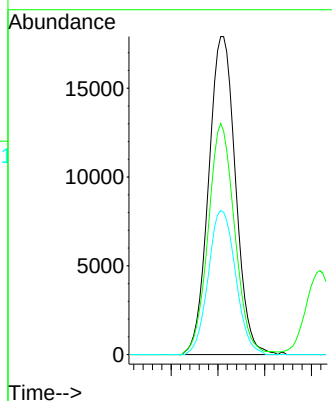
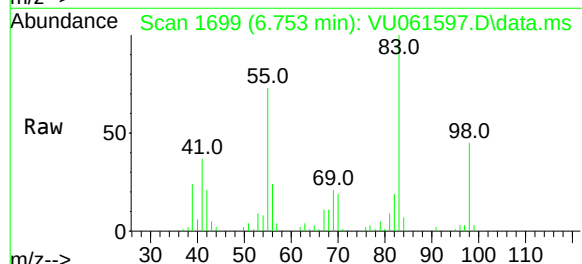
RT: 6.753 min Scan# 1699

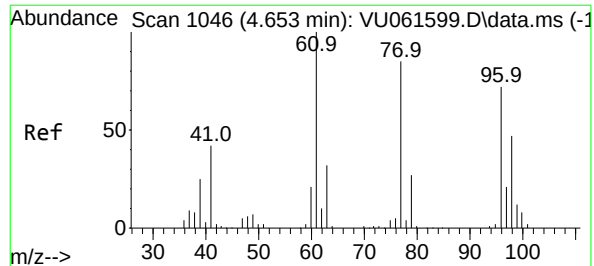
Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	83	Resp:	35820
Ion	Ratio	Lower	Upper
83	100		
55	70.5	55.5	83.3
98	45.9	36.8	55.2





#21

2,2-Dichloropropane

Concen: 1.809 ug/l

RT: 4.650 min Scan# 1045

Delta R.T. -0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 77 Resp: 31900

Ion Ratio Lower Upper

77 100

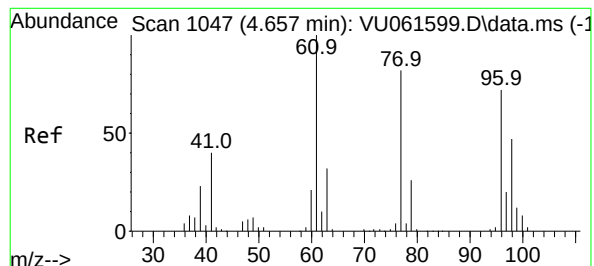
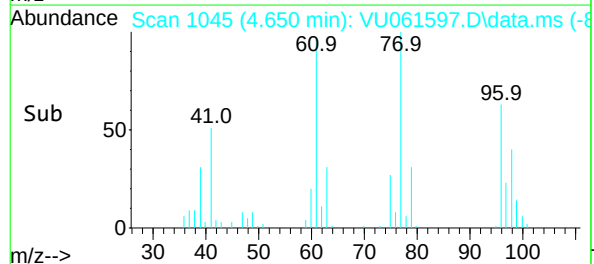
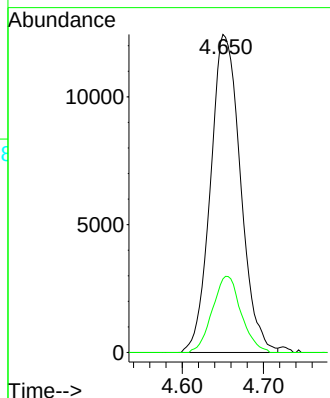
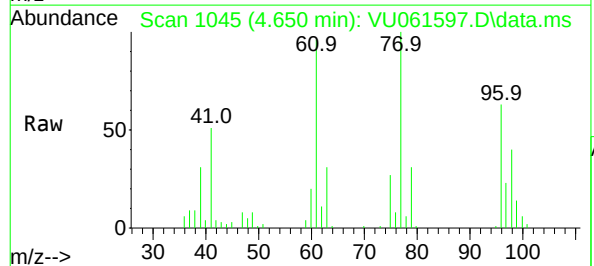
97 23.0 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#22

cis-1,2-Dichloroethene

Concen: 1.864 ug/l

RT: 4.663 min Scan# 1049

Delta R.T. 0.006 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

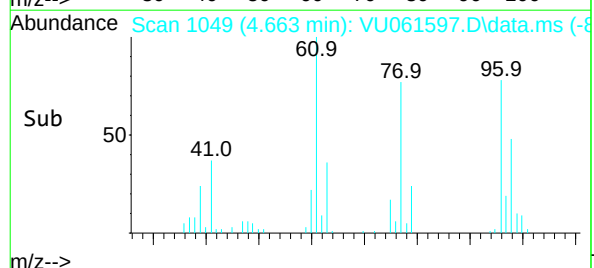
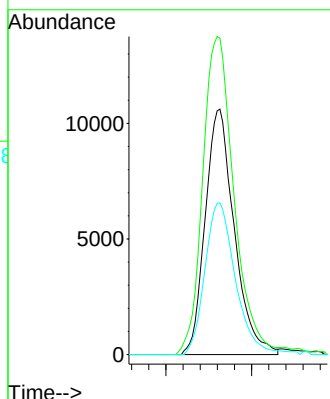
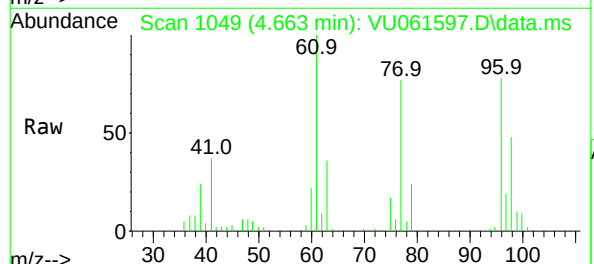
Tgt Ion: 96 Resp: 25010

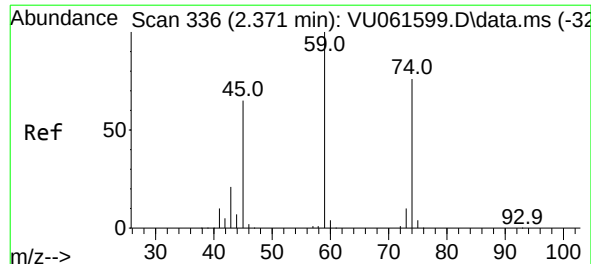
Ion Ratio Lower Upper

96 100

61 138.5 0.0 349.5

98 65.0 32.5 97.5





#23

Diethyl Ether

Concen: 1.886 ug/l

RT: 2.370 min Scan# 33

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 59 Resp: 14882

Ion Ratio Lower Upper

59 100

45 66.2 53.8 80.6

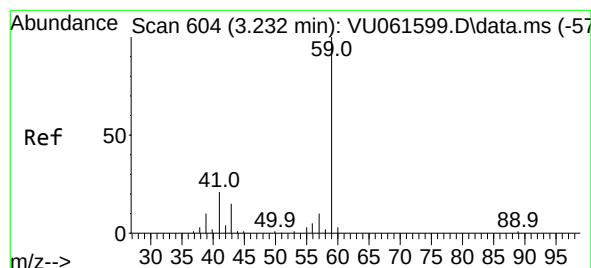
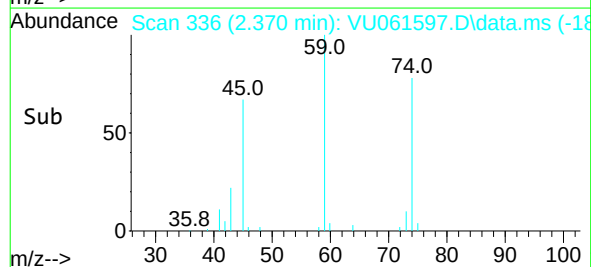
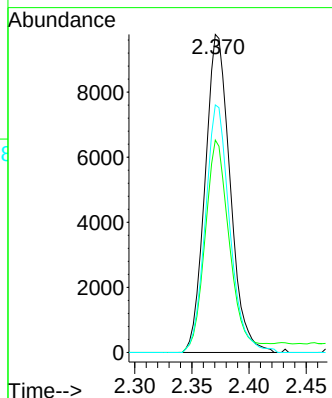
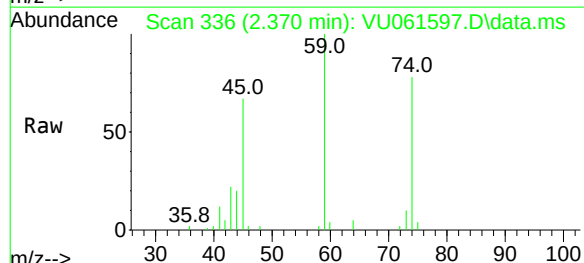
74 76.0 62.1 93.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#24

tert-Butyl Alcohol

Concen: 16.653 ug/l m

RT: 3.248 min Scan# 609

Delta R.T. 0.016 min

Lab File: VU061597.D

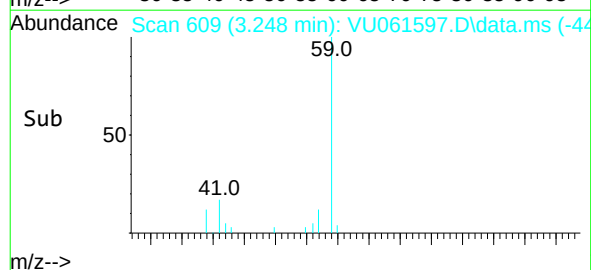
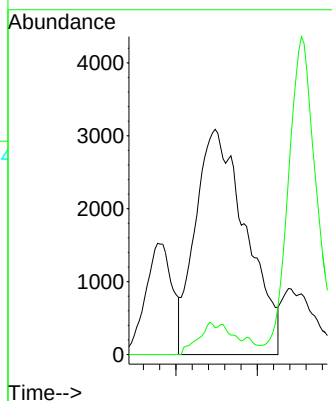
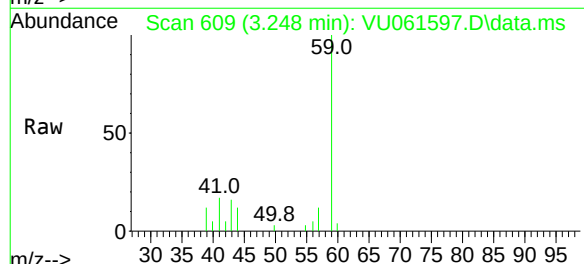
Acq: 12 Nov 2024 09:57

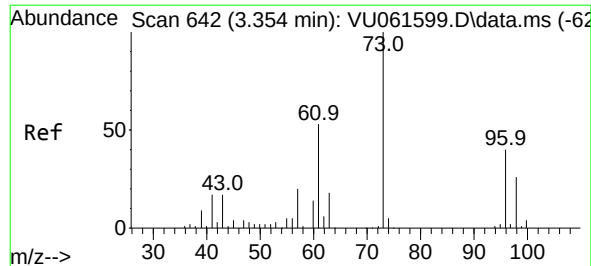
Tgt Ion: 59 Resp: 13398

Ion Ratio Lower Upper

59 100

57 4.8 7.9 11.9#





#25

Methyl tert-Butyl Ether

Concen: 1.840 ug/l

RT: 3.358 min Scan# 64

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion: 73 Resp: 47756

Ion Ratio Lower Upper

73 100

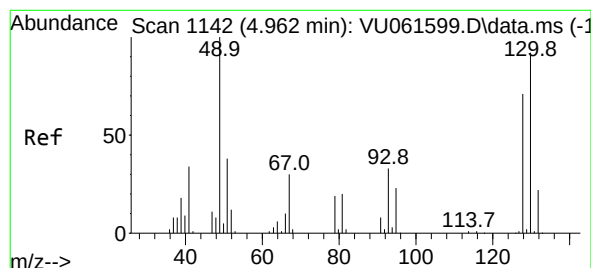
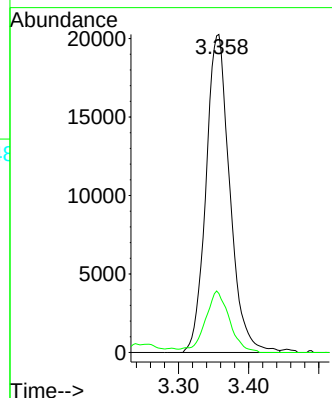
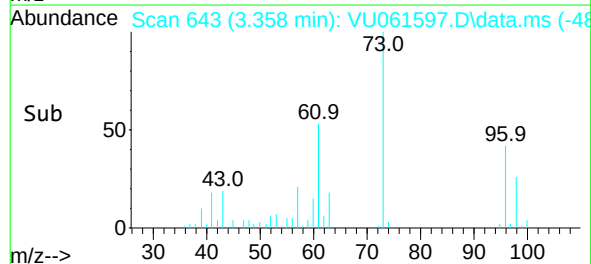
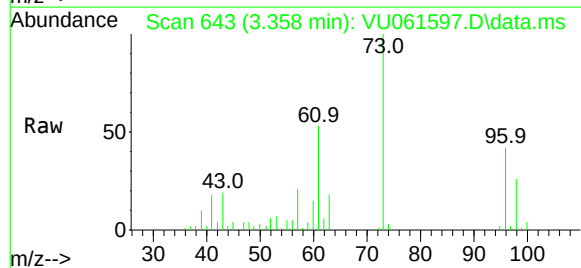
43 19.8 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#26

Bromochloromethane

Concen: 1.807 ug/l

RT: 4.965 min Scan# 1143

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

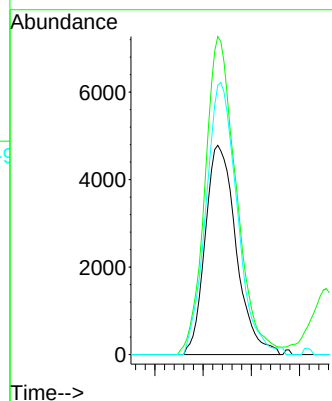
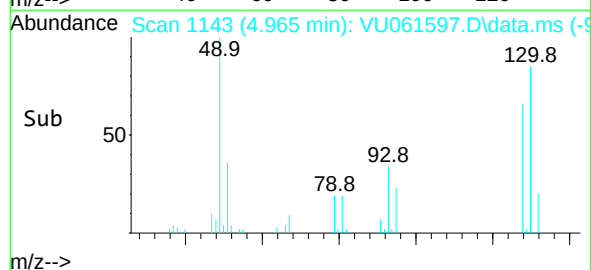
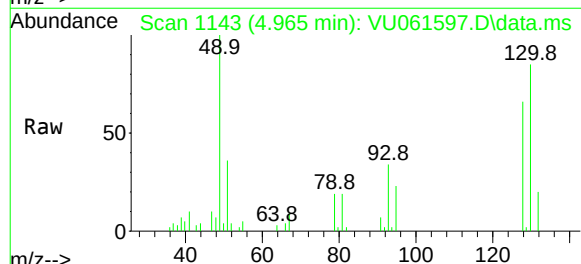
Tgt Ion:128 Resp: 10681

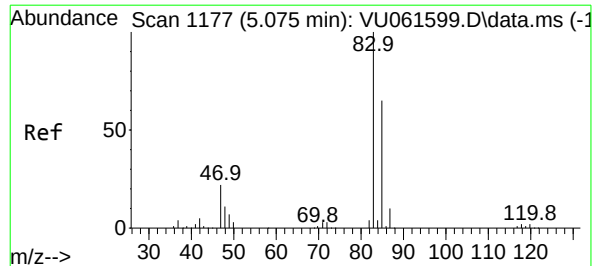
Ion Ratio Lower Upper

128 100

49 152.7 0.0 288.8

130 131.8 103.6 155.4





#27

Chloroform

Concen: 1.863 ug/l

RT: 5.078 min Scan# 1177

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion: 83 Resp: 43328

Ion Ratio Lower Upper

83 100

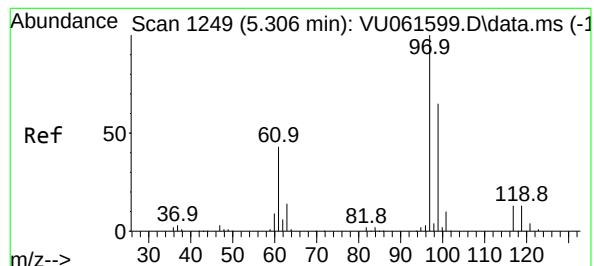
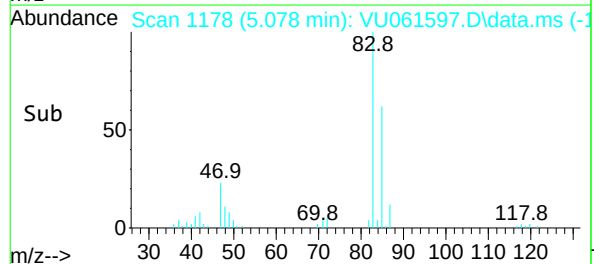
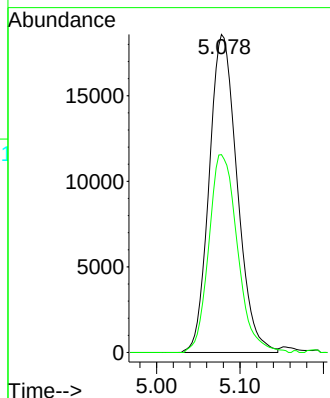
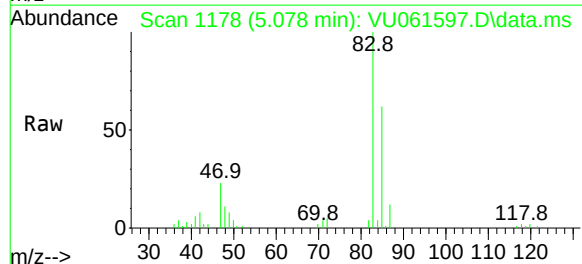
85 62.2 0.0 130.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#28

1,1,1-Trichloroethane

Concen: 1.852 ug/l

RT: 5.309 min Scan# 1250

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

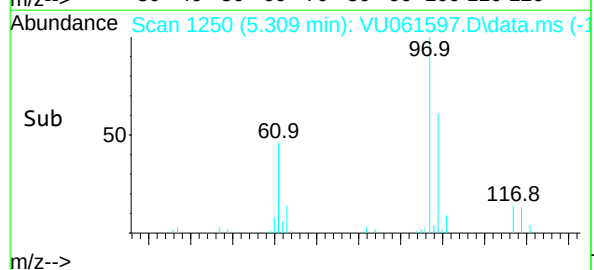
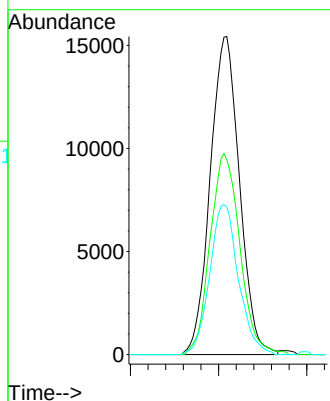
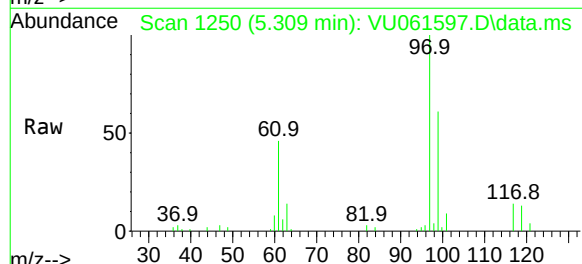
Tgt Ion: 97 Resp: 35600

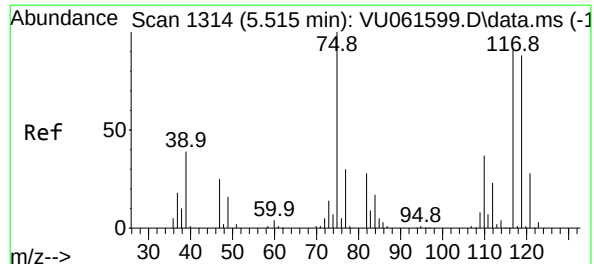
Ion Ratio Lower Upper

97 100

99 64.3 32.1 96.5

61 46.3 21.7 65.1





#29

1,1-Dichloropropene

Concen: 1.846 ug/l

RT: 5.521 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 75 Resp: 31869

Ion Ratio Lower Upper

75 100

110 34.3 17.9 53.8

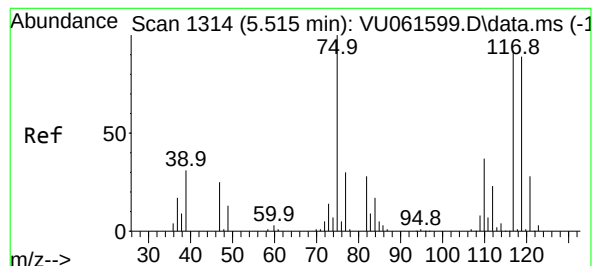
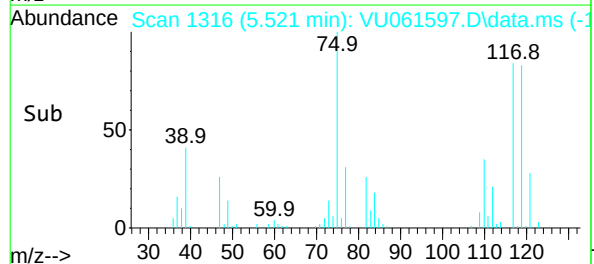
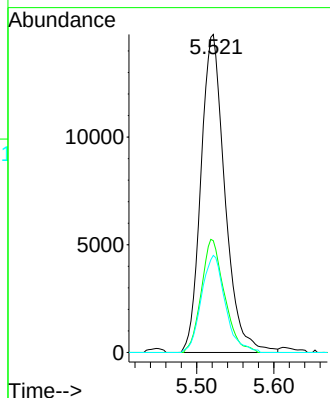
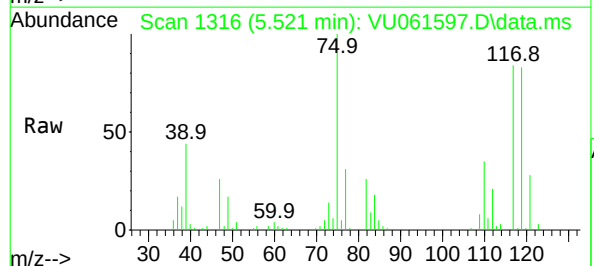
77 30.4 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 1.837 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

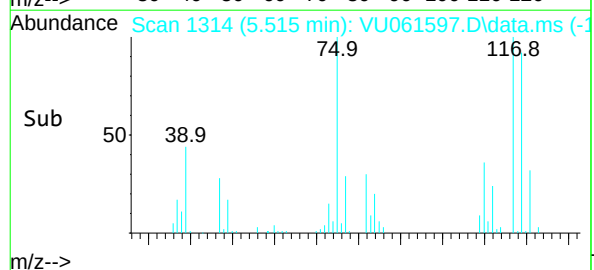
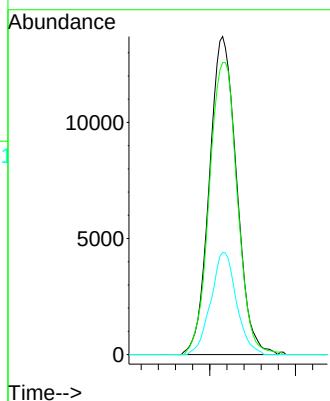
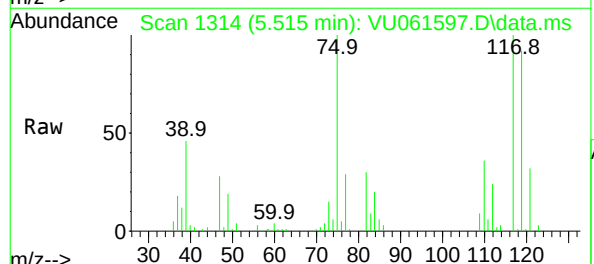
Tgt Ion:117 Resp: 30257

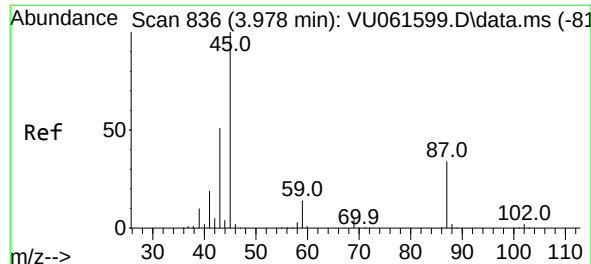
Ion Ratio Lower Upper

117 100

119 91.8 77.4 116.0

121 32.1 24.5 36.7





#31

Isopropyl Ether

Concen: 1.825 ug/l

RT: 3.981 min Scan# 836

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion: 45 Resp: 53267

Ion Ratio Lower Upper

45 100

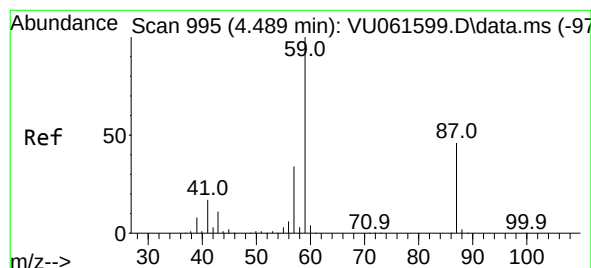
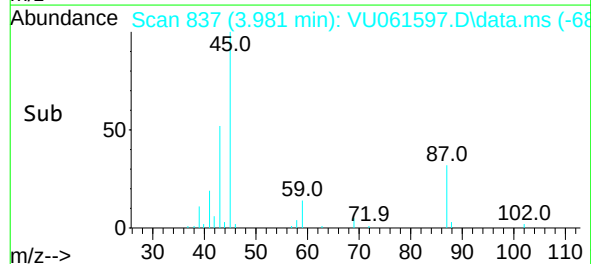
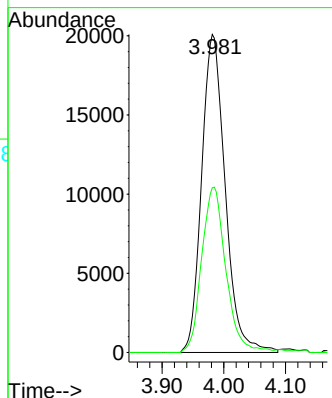
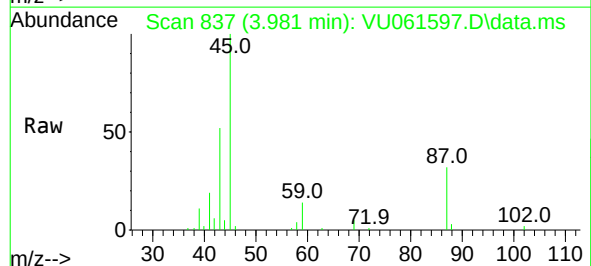
43 53.4 25.8 77.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#32

Ethyl-t-butyl ether

Concen: 1.782 ug/l

RT: 4.489 min Scan# 995

Delta R.T. -0.000 min

Lab File: VU061597.D

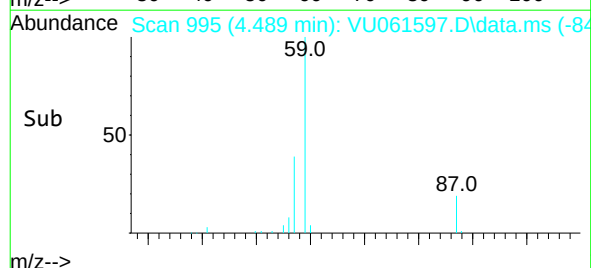
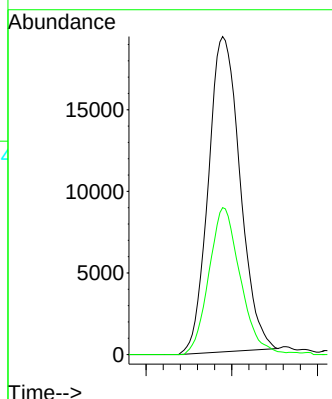
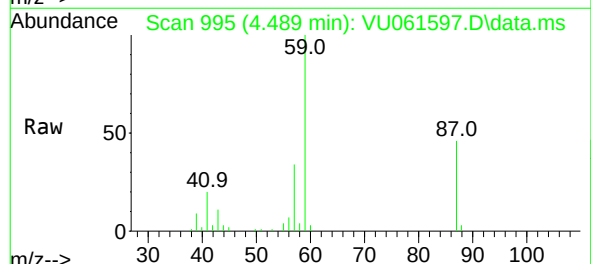
Acq: 12 Nov 2024 09:57

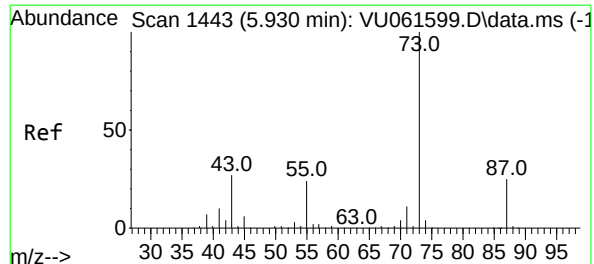
Tgt Ion: 59 Resp: 49698

Ion Ratio Lower Upper

59 100

87 45.3 35.5 53.3





#33

Tert-Amyl methyl ether

Concen: 1.836 ug/l

RT: 5.930 min Scan# 14

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

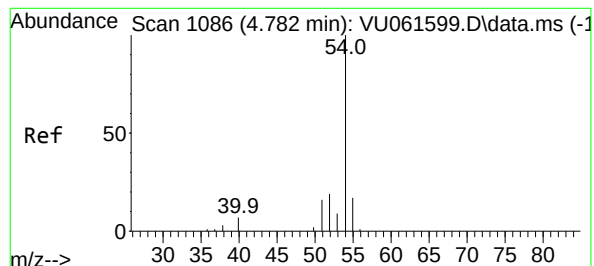
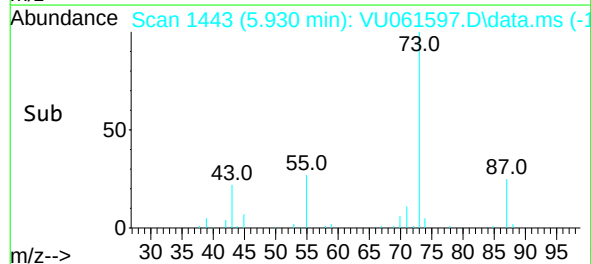
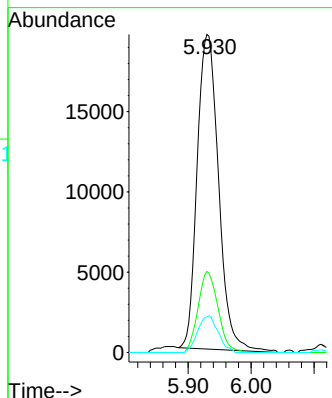
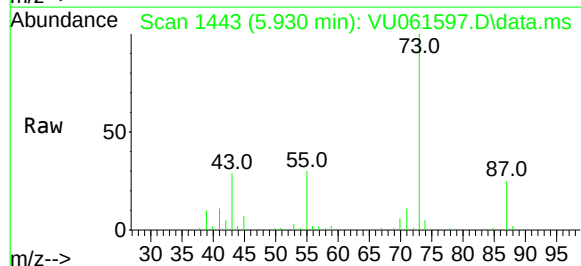
ClientSampleId :

VSTDIC002

Tgt Ion: 73	Resp: 46289
Ion Ratio	Lower Upper
73 100	
87 23.9	19.8 29.6
71 11.1	9.0 13.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#34

Propionitrile

Concen: 9.987 ug/l m

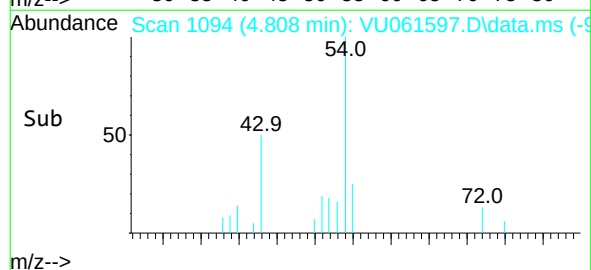
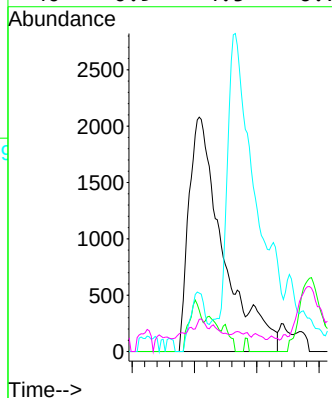
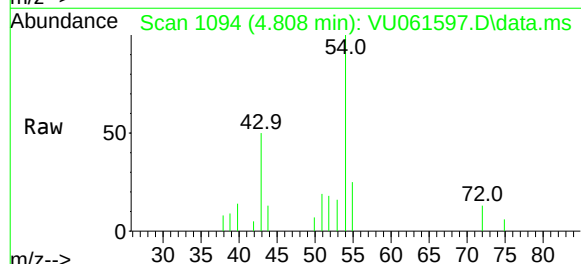
RT: 4.808 min Scan# 1094

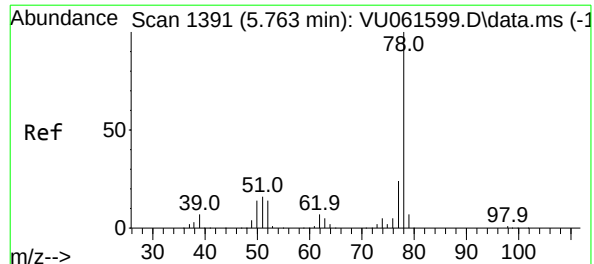
Delta R.T. 0.026 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion: 54	Resp: 7909
Ion Ratio	Lower Upper
54 100	
52 7.8	15.8 23.8#
55 11.3	10.7 16.1
40 0.9	4.5 6.7#





#35

Benzene

Concen: 1.863 ug/l

RT: 5.766 min Scan# 1391

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 78 Resp: 95849

Ion Ratio Lower Upper

78 100

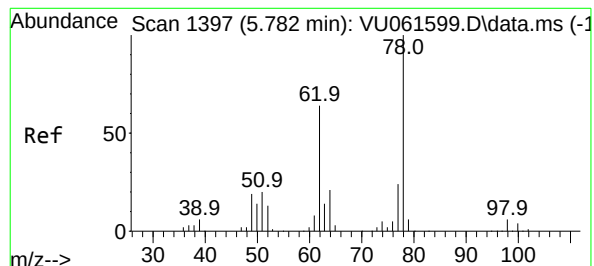
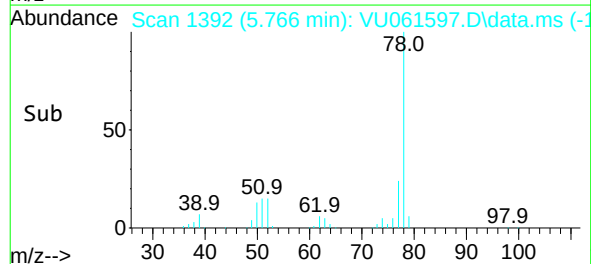
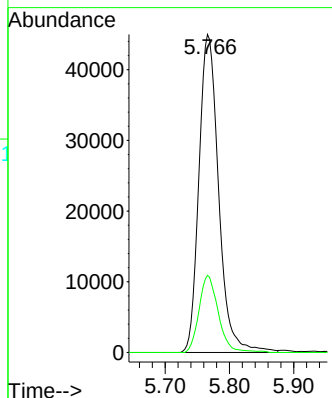
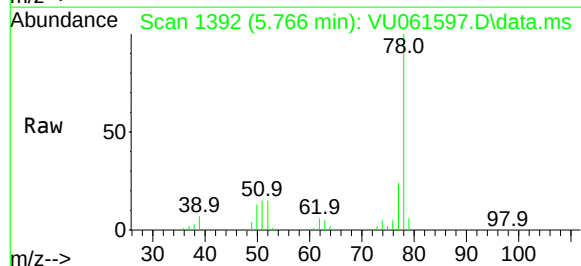
77 24.3 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#36

1,2-Dichloroethane

Concen: 1.836 ug/l

RT: 5.788 min Scan# 1399

Delta R.T. 0.006 min

Lab File: VU061597.D

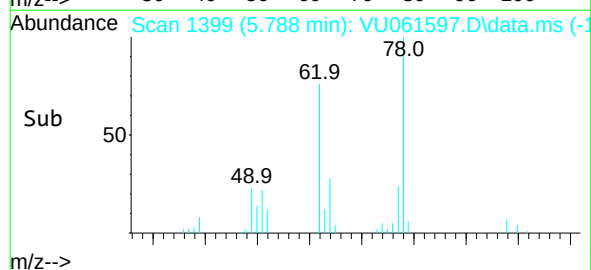
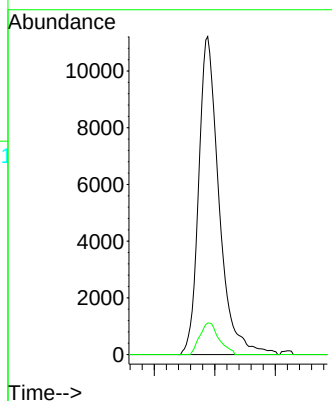
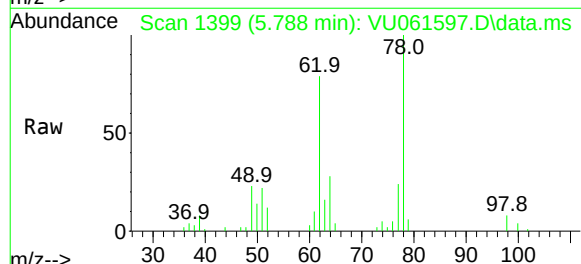
Acq: 12 Nov 2024 09:57

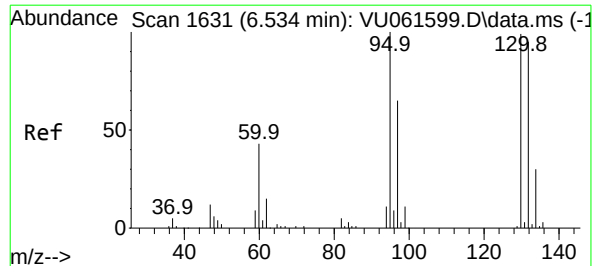
Tgt Ion: 62 Resp: 26253

Ion Ratio Lower Upper

62 100

98 9.4 7.4 11.0





#37

Trichloroethene

Concen: 1.834 ug/l

RT: 6.537 min Scan# 16

Delta R.T. 0.003 min

Lab File: VU061597.D

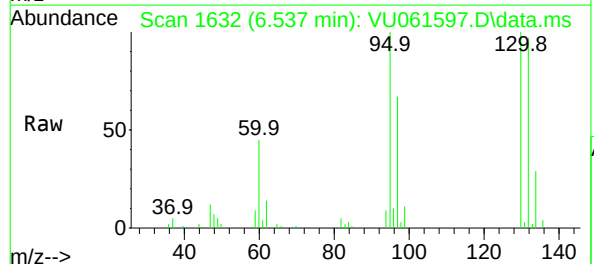
Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002



Tgt Ion: 130 Resp: 24986

Ion Ratio Lower Upper

130 100

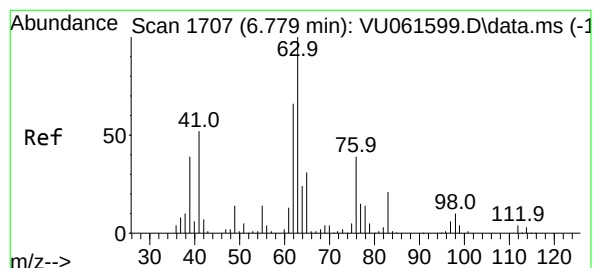
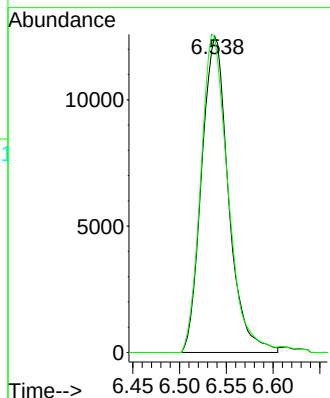
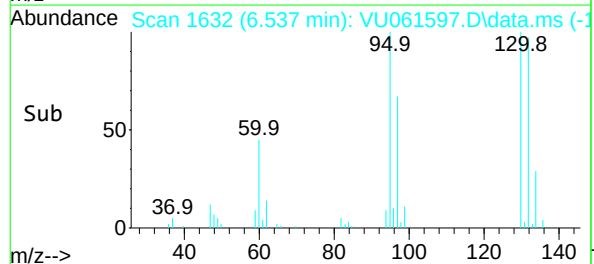
95 99.7 80.6 120.8

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#38

1,2-Dichloropropane

Concen: 1.827 ug/l

RT: 6.782 min Scan# 1708

Delta R.T. 0.003 min

Lab File: VU061597.D

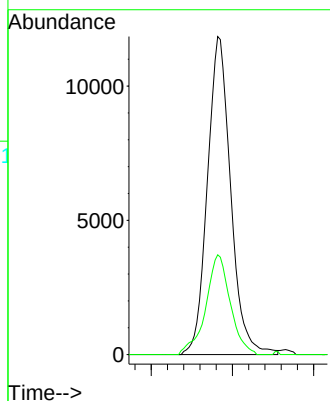
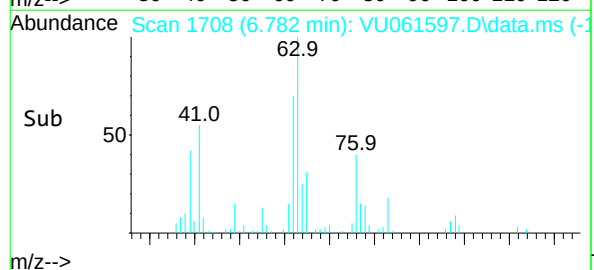
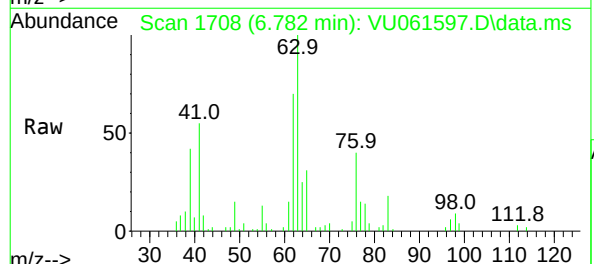
Acq: 12 Nov 2024 09:57

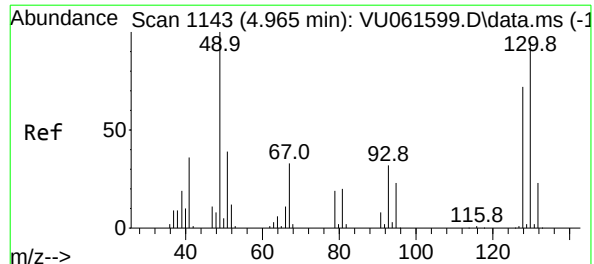
Tgt Ion: 63 Resp: 23603

Ion Ratio Lower Upper

63 100

65 31.4 25.3 37.9





#39

Methacrylonitrile

Concen: 1.851 ug/l

RT: 4.988 min Scan# 1112

Delta R.T. 0.022 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion: 41 Resp: 5247

Ion Ratio Lower Upper

41 100

67 75.8 77.6 116.4#

39 34.8 43.9 65.9#

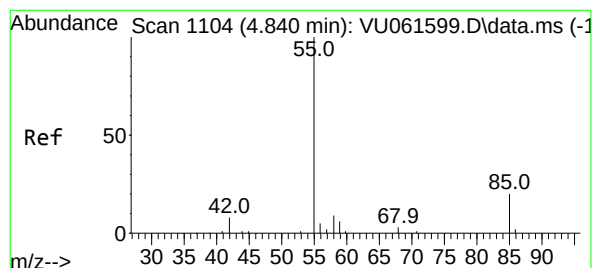
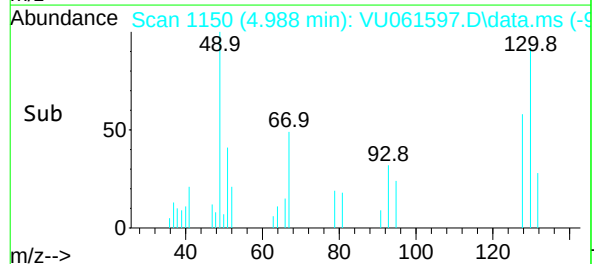
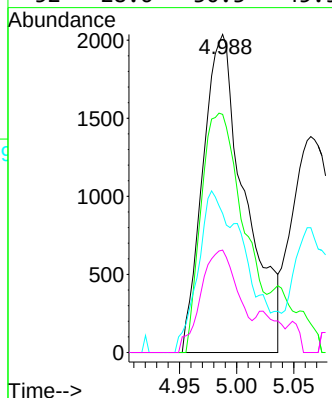
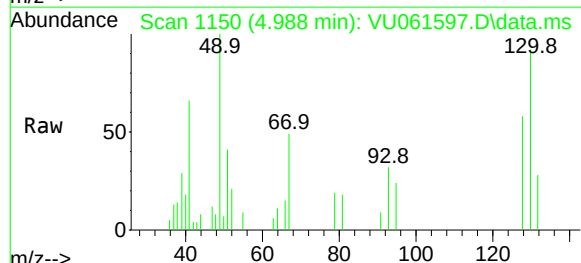
52 28.6 30.3 45.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#40

Methyl acrylate

Concen: 2.087 ug/l m

RT: 4.866 min Scan# 1112

Delta R.T. 0.026 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion: 55 Resp: 10708

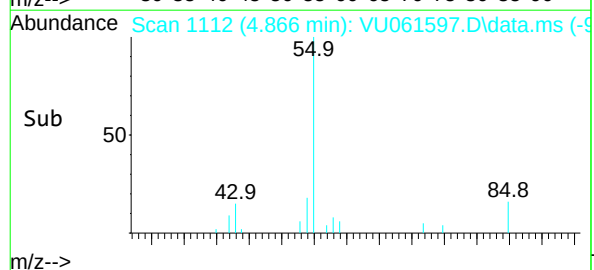
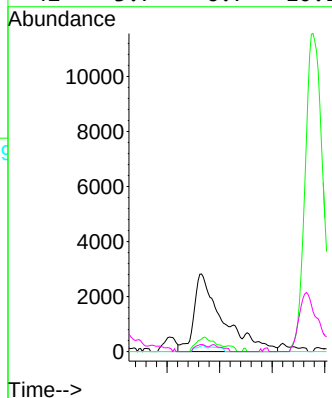
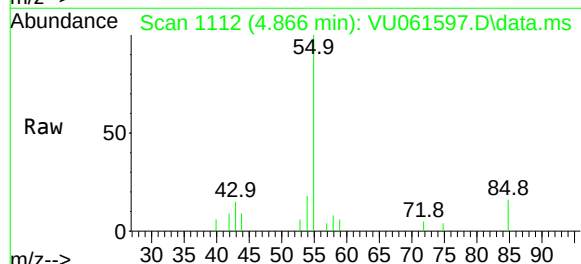
Ion Ratio Lower Upper

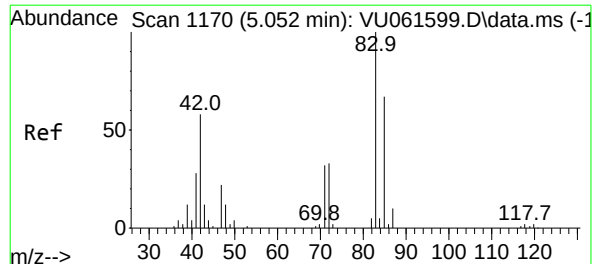
55 100

85 12.1 16.5 24.7#

58 2.8 7.6 11.4#

42 3.7 6.7 10.1#





#41

Tetrahydrofuran

Concen: 3.529 ug/l

RT: 5.065 min Scan# 1170

Delta R.T. 0.013 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

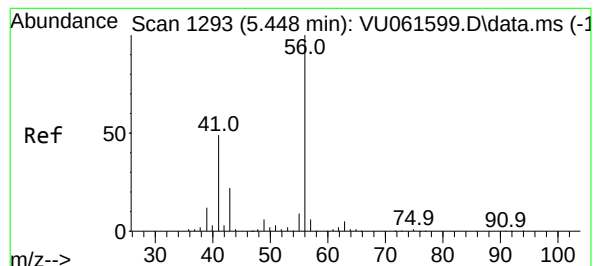
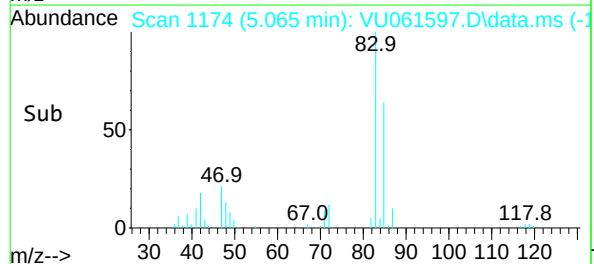
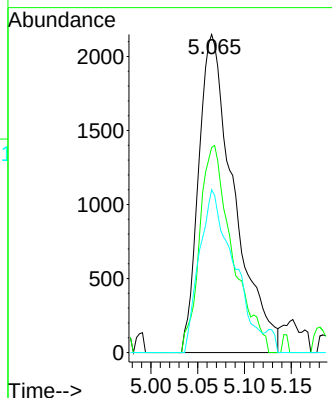
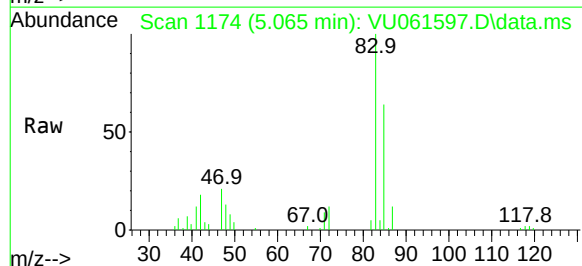
ClientSampleId :

VSTDICC002

Tgt Ion:	42	Resp:	5650
Ion	Ratio	Lower	Upper
42	100		
72	60.1	49.1	73.7
71	49.6	40.2	60.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#42

1-Chlorobutane

Concen: 1.903 ug/l

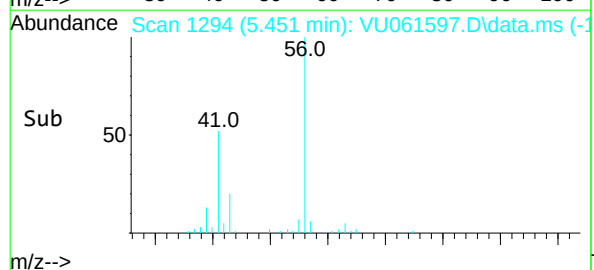
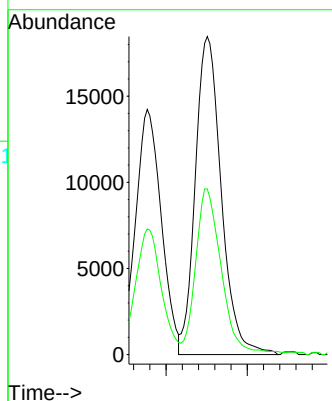
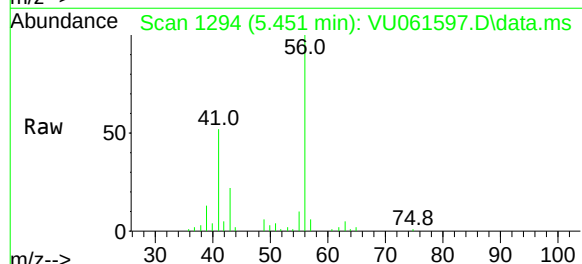
RT: 5.451 min Scan# 1294

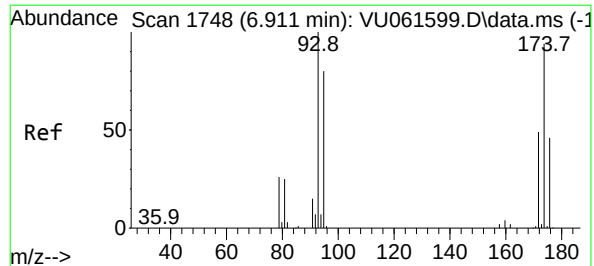
Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	56	Resp:	41005
Ion	Ratio	Lower	Upper
56	100		
41	49.1	23.4	70.2





#43

Dibromomethane

Concen: 1.837 ug/l

RT: 6.914 min Scan# 1749

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 93 Resp: 12572

Ion Ratio Lower Upper

93 100

95 85.8 65.2 97.8

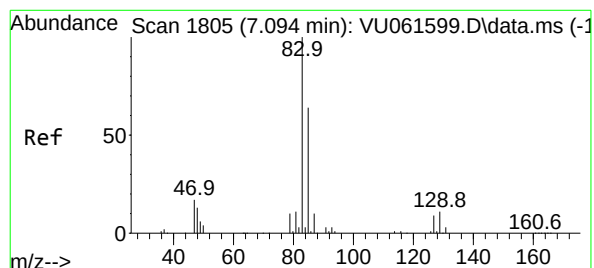
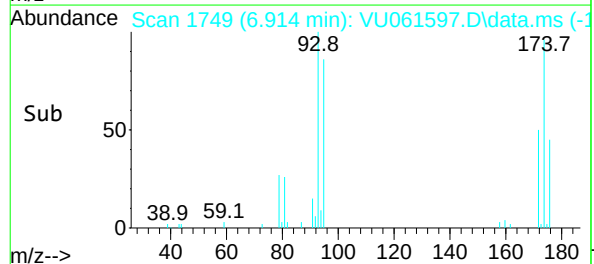
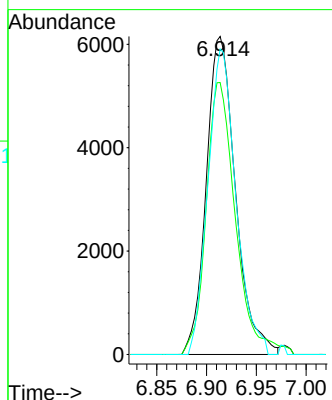
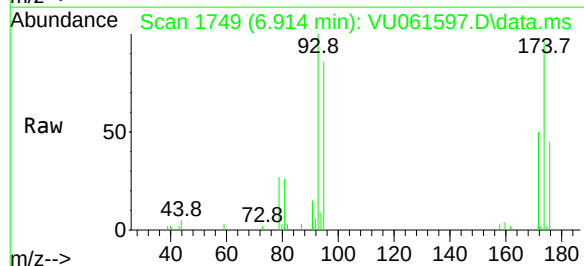
174 92.1 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

Concen: 1.838 ug/l

RT: 7.097 min Scan# 1806

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

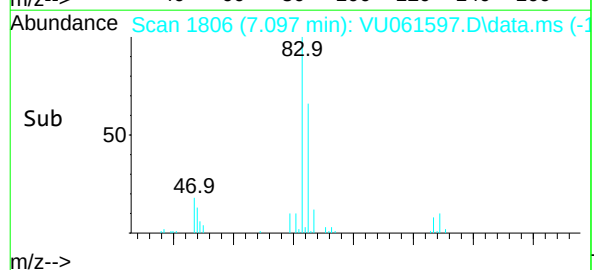
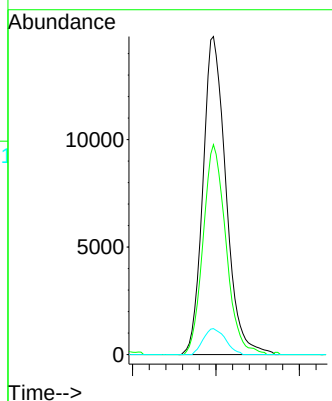
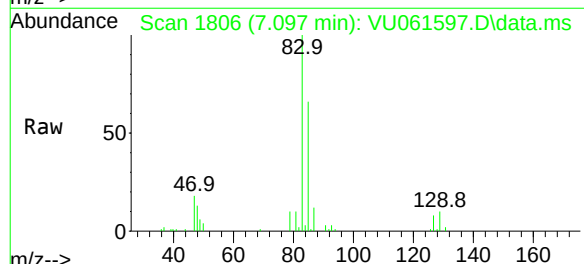
Tgt Ion: 83 Resp: 28400

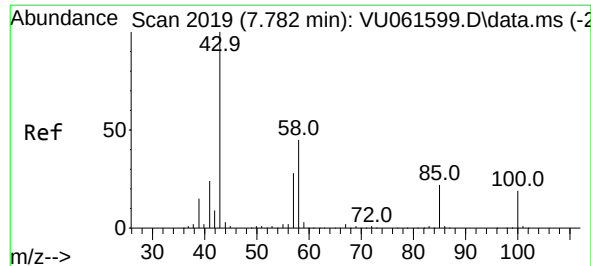
Ion Ratio Lower Upper

83 100

85 66.0 51.4 77.0

127 8.2 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 8.922 ug/l

RT: 7.785 min Scan# 2019

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

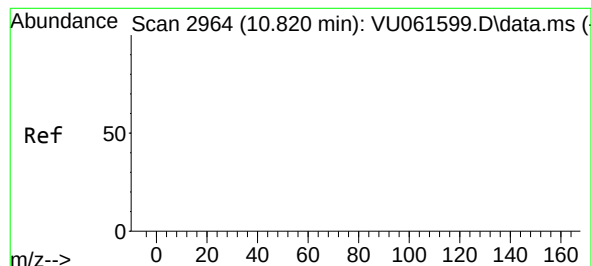
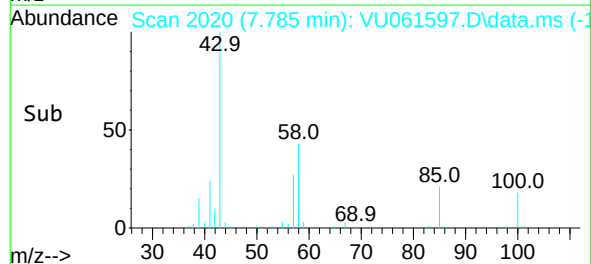
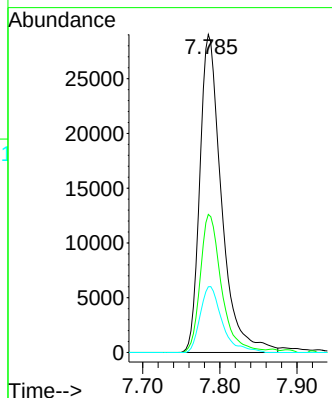
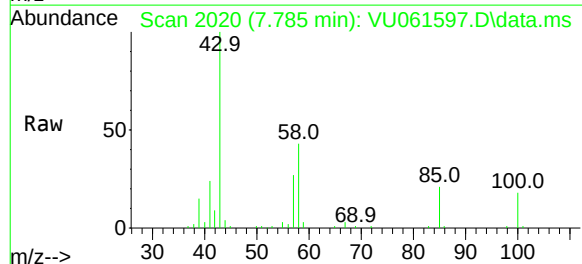
ClientSampleId :

VSTDIC002

Tgt	Ion: 43	Resp: 56791
Ion	Ratio	Lower Upper
43	100	
58	42.5	22.3 66.8
85	21.0	17.2 25.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 3.998 ug/l m

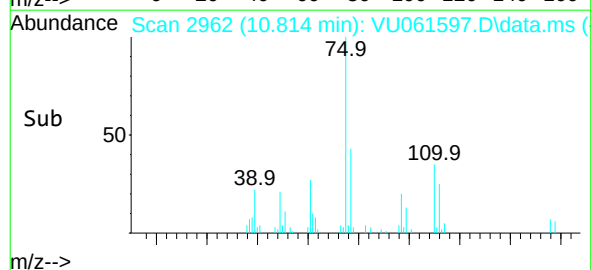
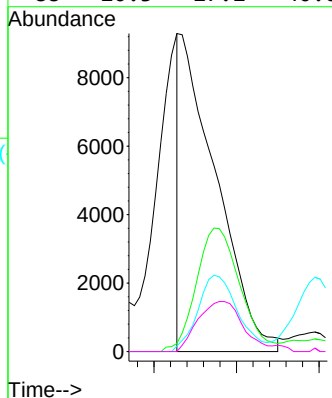
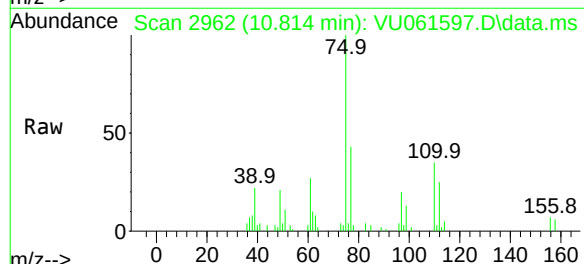
RT: 10.814 min Scan# 2962

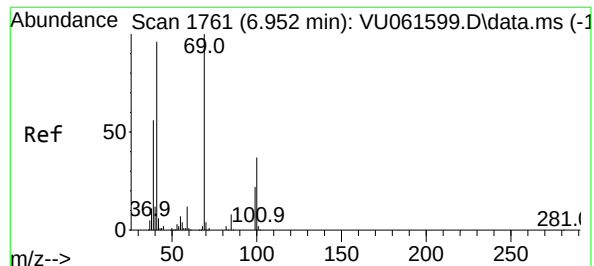
Delta R.T. -0.007 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt	Ion: 75	Resp: 14070
Ion	Ratio	Lower Upper
75	100	
53	47.0	50.7 76.1#
89	26.7	35.2 52.8#
88	20.3	27.2 40.8#





#47

Methyl methacrylate

Concen: 3.641 ug/l

RT: 6.959 min Scan# 17

Delta R.T. 0.006 min

Lab File: VU061597.D

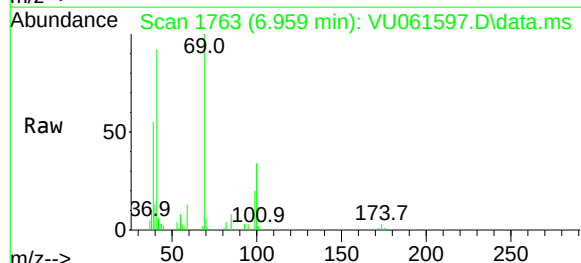
Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

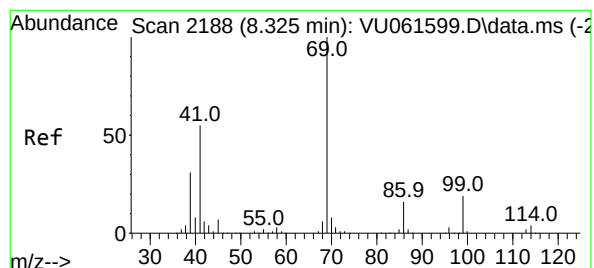
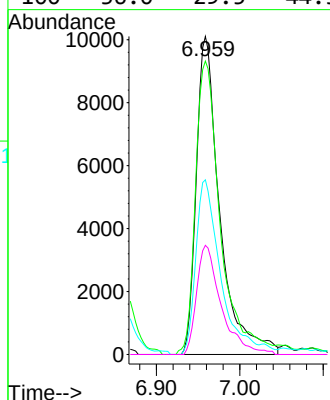
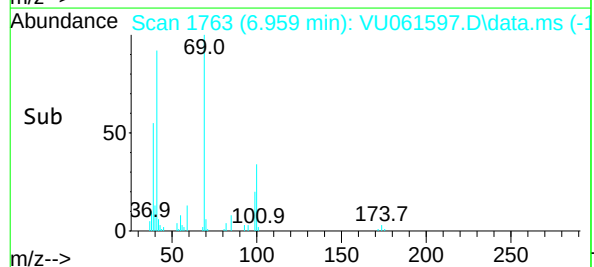
VSTDICC002



Tgt Ion	Ratio	Lower	Upper
69	100		
41	98.0	0.0	193.6
39	57.2	46.6	70.0
100	36.0	29.5	44.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#48

Ethyl methacrylate

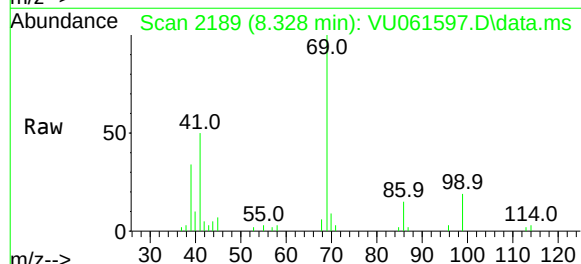
Concen: 1.753 ug/l

RT: 8.328 min Scan# 2189

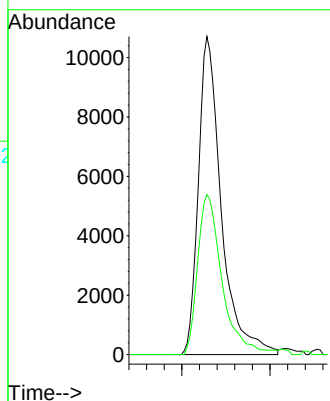
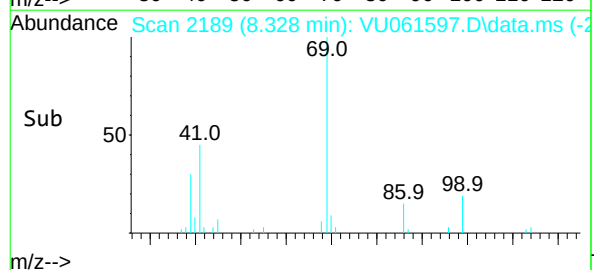
Delta R.T. 0.003 min

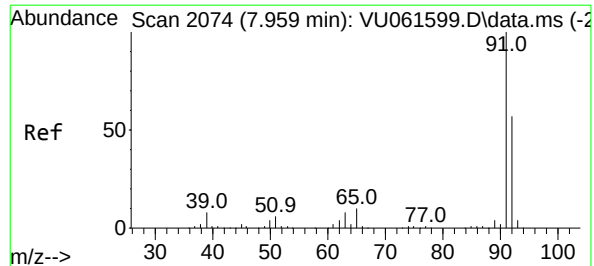
Lab File: VU061597.D

Acq: 12 Nov 2024 09:57



Tgt Ion	Ratio	Lower	Upper
69	100		
41	53.3	27.3	81.9





#49

Toluene

Concen: 1.798 ug/l

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 92 Resp: 56513

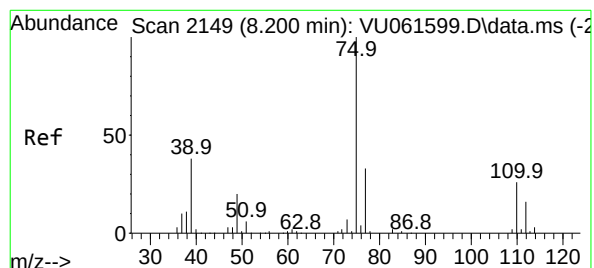
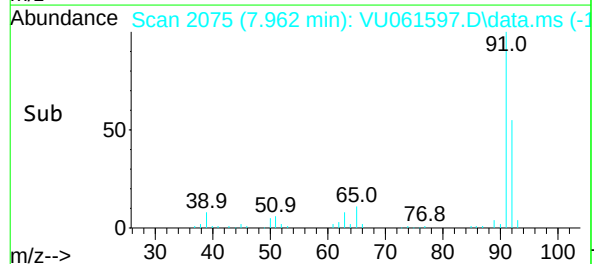
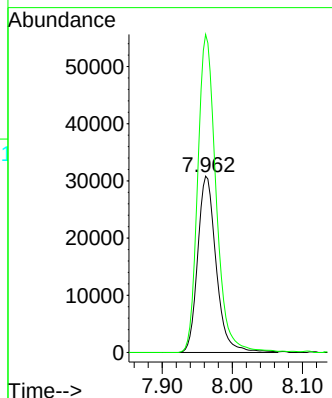
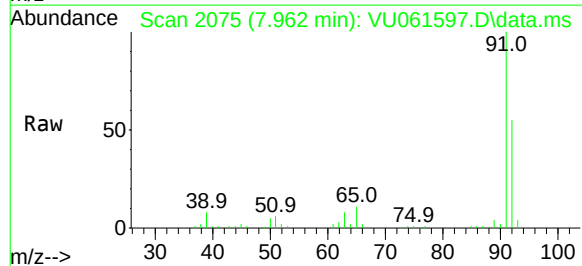
Ion Ratio Lower Upper

92 100

91 179.1 139.6 209.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#50

t-1,3-Dichloropropene

Concen: 1.739 ug/l

RT: 8.206 min Scan# 2151

Delta R.T. 0.006 min

Lab File: VU061597.D

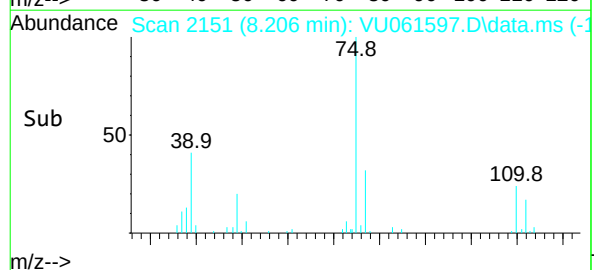
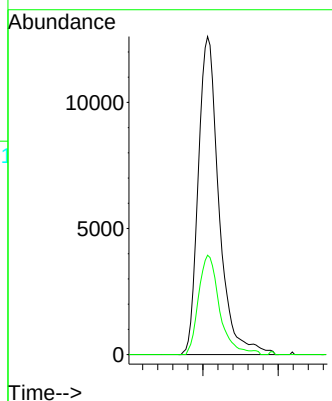
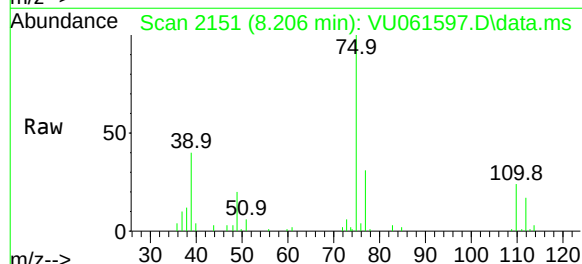
Acq: 12 Nov 2024 09:57

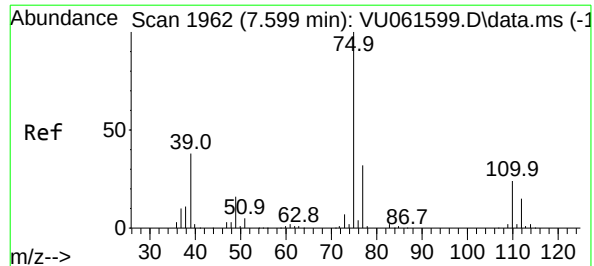
Tgt Ion: 75 Resp: 24047

Ion Ratio Lower Upper

75 100

77 31.2 26.0 39.0





#51

cis-1,3-Dichloropropene

Concen: 1.769 ug/l

RT: 7.602 min Scan# 19

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

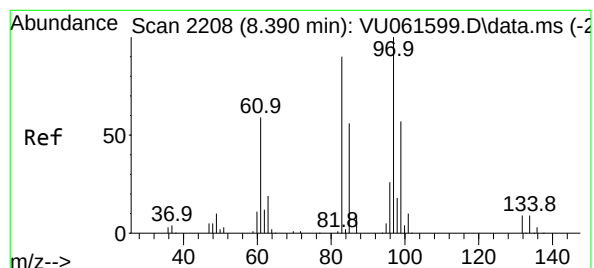
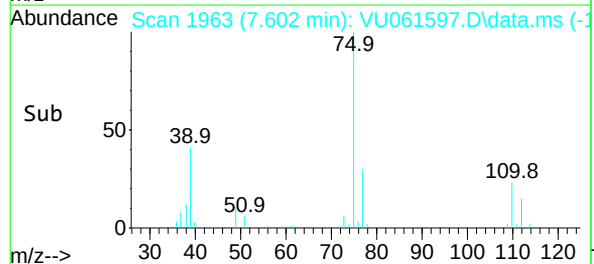
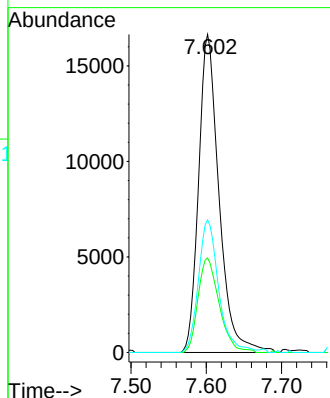
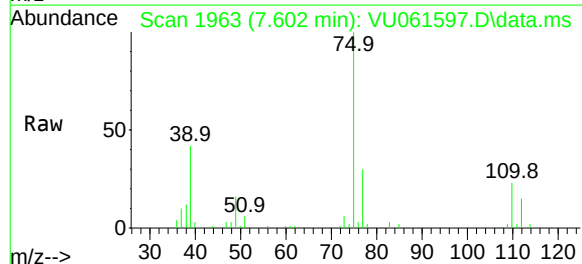
Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion:	75	Resp:	31382
Ion Ratio	Lower	Upper	
75	100		
77	29.7	25.5	38.3
39	41.7	30.6	46.0

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#52

1,1,2-Trichloroethane

Concen: 1.837 ug/l

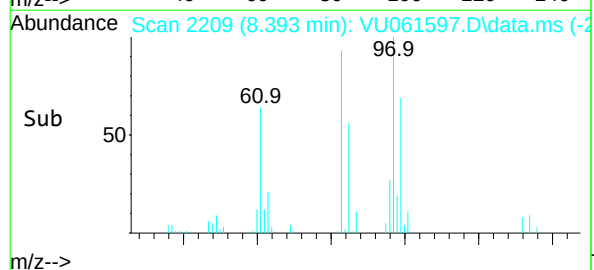
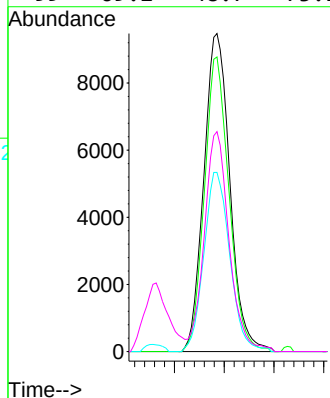
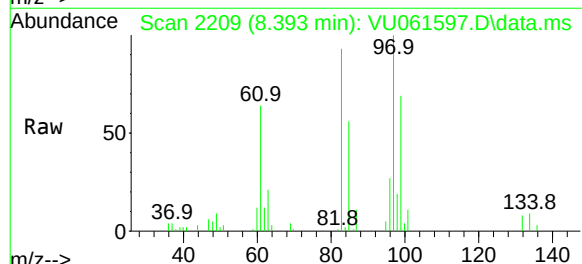
RT: 8.393 min Scan# 2209

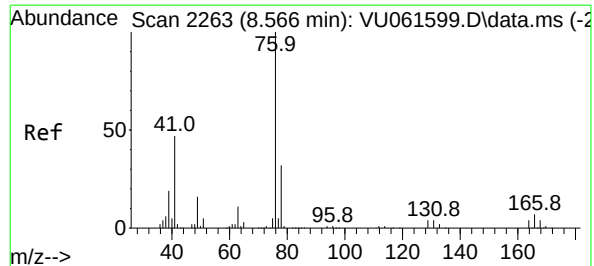
Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	97	Resp:	17235
Ion Ratio	Lower	Upper	
97	100		
83	92.6	71.7	107.5
85	56.3	45.2	67.8
99	69.2	48.7	73.1





#53

1,3-Dichloropropane

Concen: 1.876 ug/l

RT: 8.566 min Scan# 2263

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion: 76 Resp: 30032

Ion Ratio Lower Upper

76 100

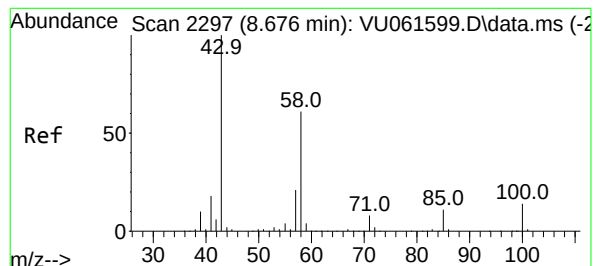
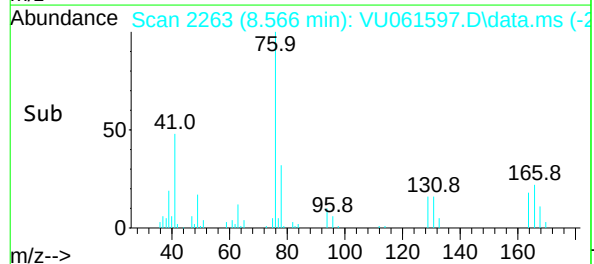
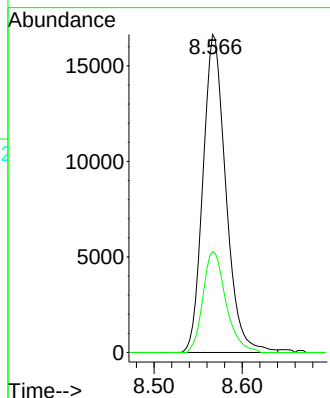
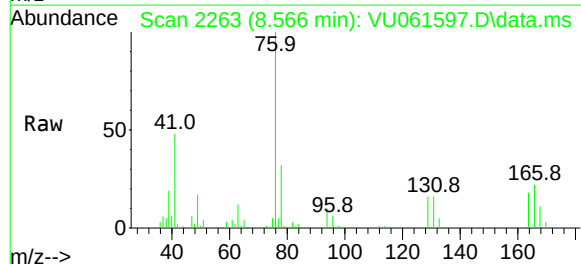
78 31.9 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#54

2-Hexanone

Concen: 8.682 ug/l

RT: 8.682 min Scan# 2299

Delta R.T. 0.006 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

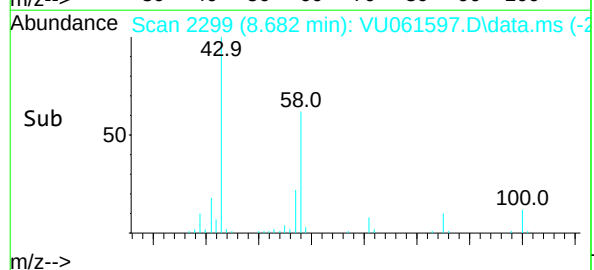
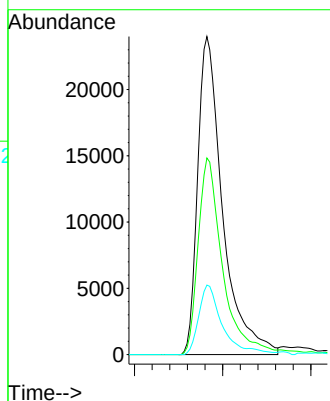
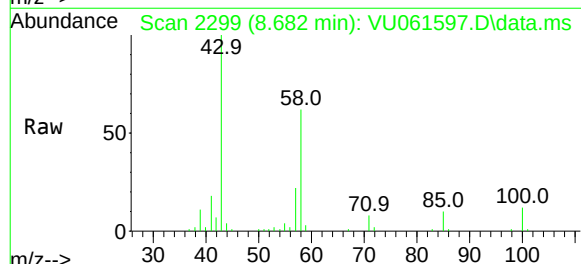
Tgt Ion: 43 Resp: 47087

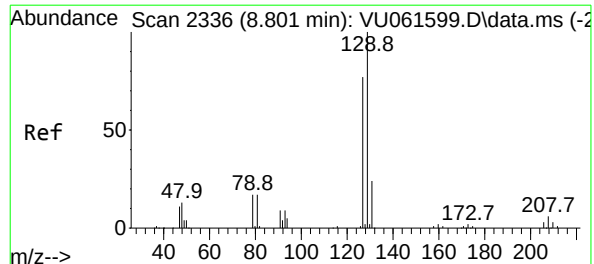
Ion Ratio Lower Upper

43 100

58 61.4 42.3 82.3

57 20.8 0.9 40.9





#55

Dibromochloromethane

Concen: 1.737 ug/l

RT: 8.801 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion:129 Resp: 17637

Ion Ratio Lower Upper

129 100

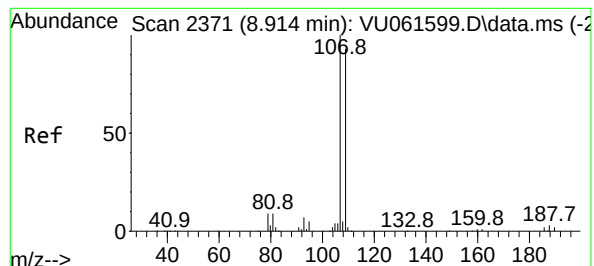
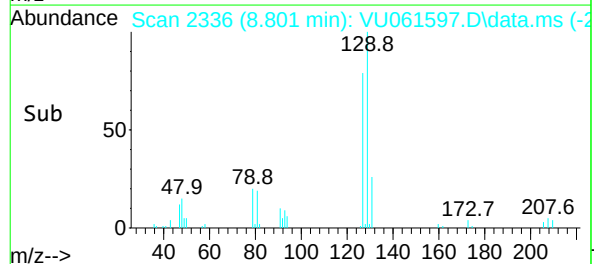
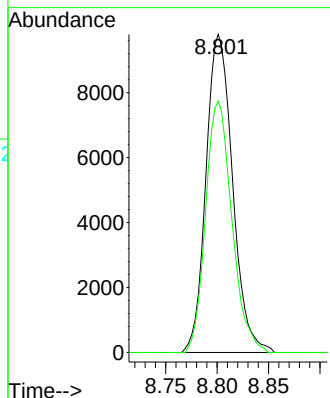
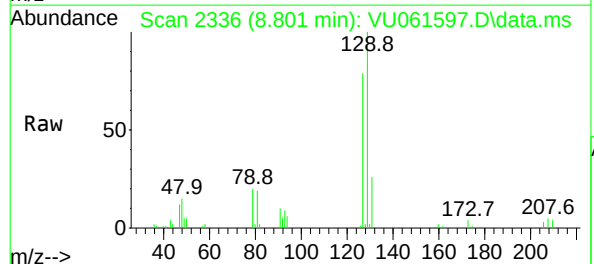
127 78.1 61.8 92.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#56

1,2-Dibromoethane

Concen: 1.867 ug/l

RT: 8.917 min Scan# 2372

Delta R.T. 0.003 min

Lab File: VU061597.D

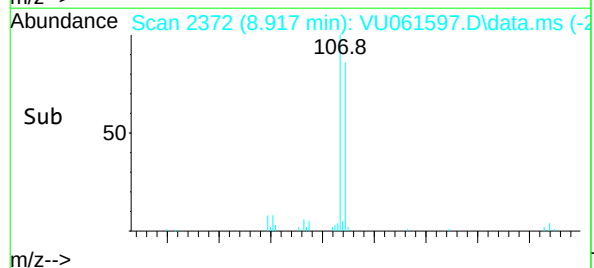
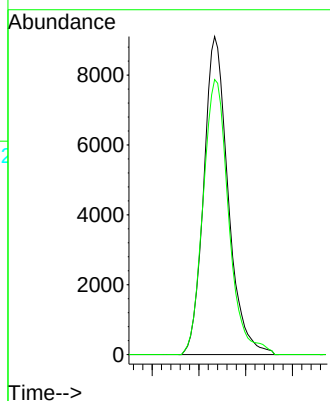
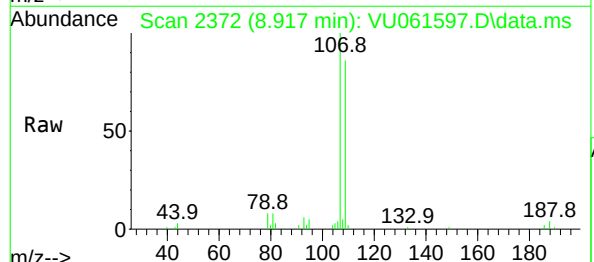
Acq: 12 Nov 2024 09:57

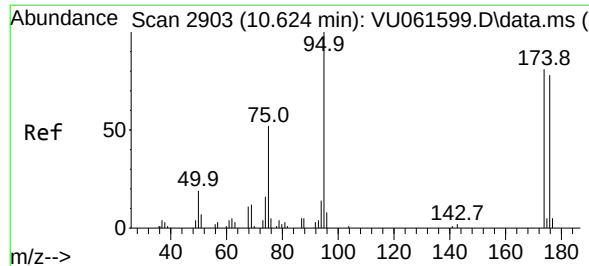
Tgt Ion:107 Resp: 16461

Ion Ratio Lower Upper

107 100

109 91.0 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 0.937 ug/l

RT: 10.627 min Scan# 2903

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 95 Resp: 15500

Ion Ratio Lower Upper

95 100

174 81.3 67.5 101.3

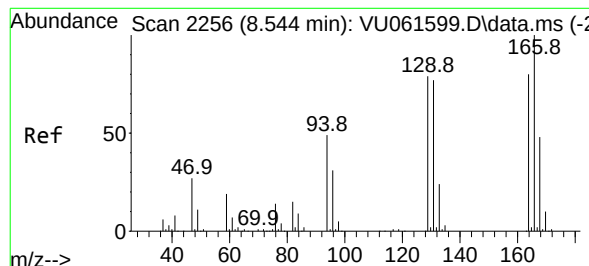
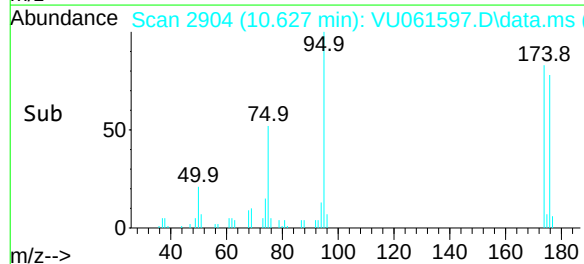
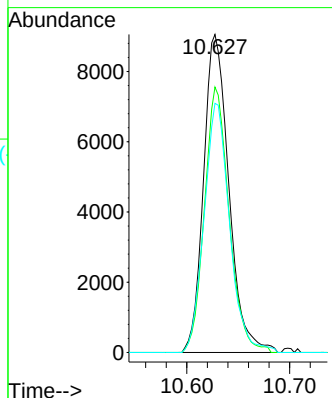
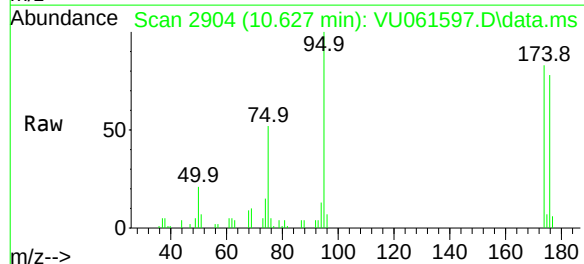
176 79.0 62.7 94.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#58

Tetrachloroethene

Concen: 1.886 ug/l

RT: 8.544 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:164 Resp: 23118

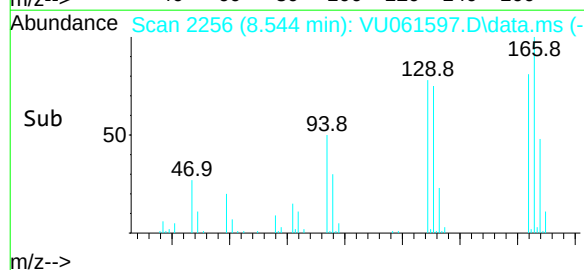
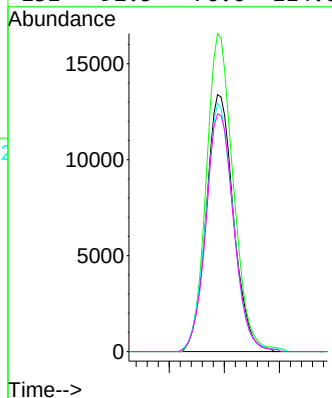
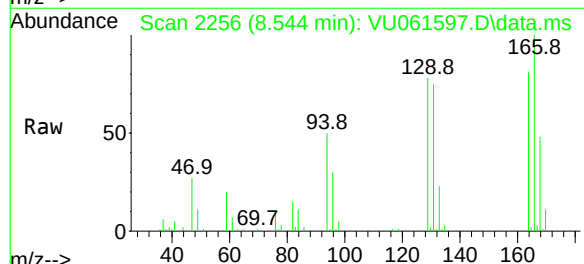
Ion Ratio Lower Upper

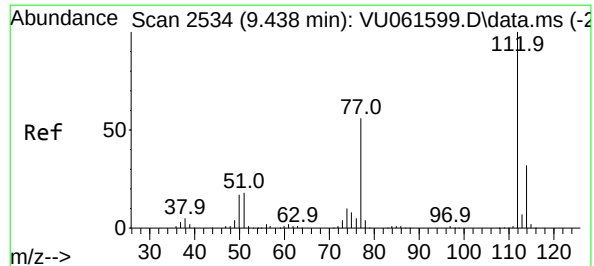
164 100

166 123.8 99.9 149.9

129 96.7 78.6 118.0

131 92.5 76.6 114.8





#59

Chlorobenzene

Concen: 1.836 ug/l

RT: 9.441 min Scan# 2534

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion:112 Resp: 63733

Ion Ratio Lower Upper

112 100

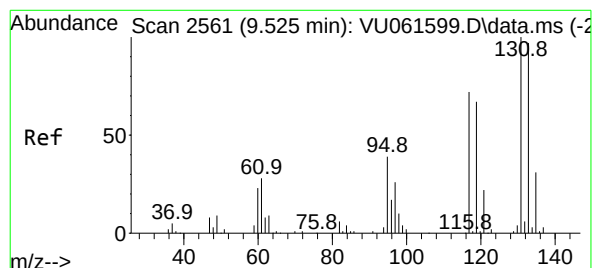
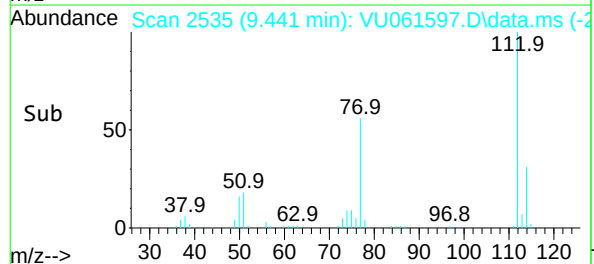
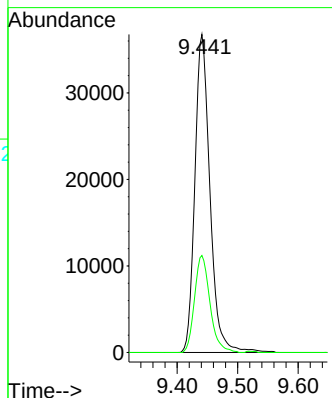
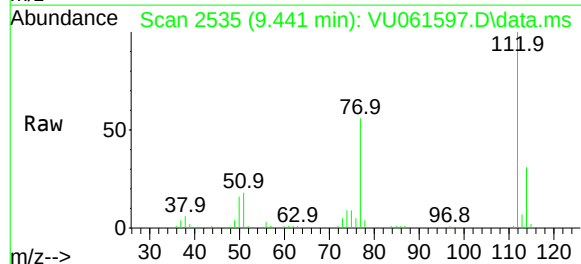
114 30.5 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#60

1,1,1,2-Tetrachloroethane

Concen: 1.800 ug/l

RT: 9.525 min Scan# 2561

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

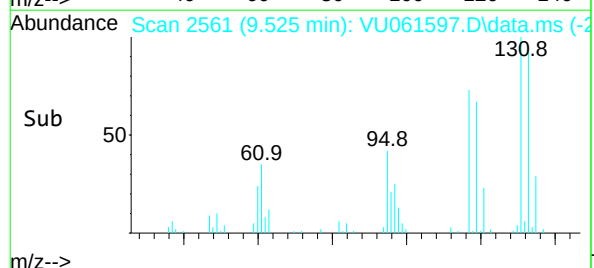
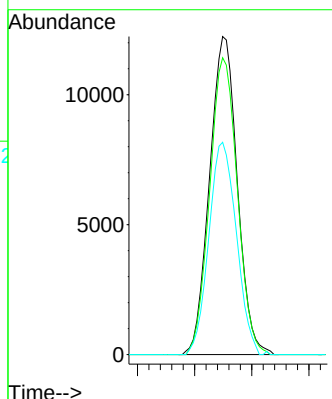
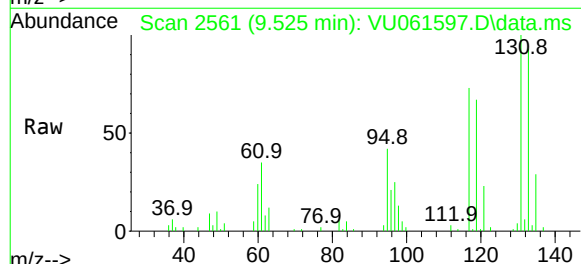
Tgt Ion:131 Resp: 20628

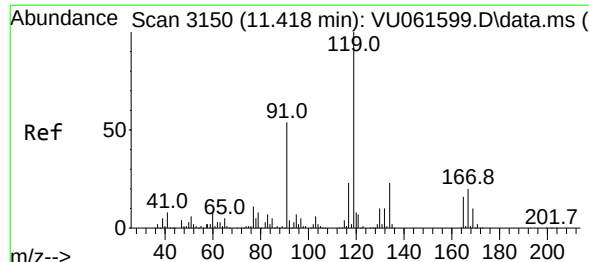
Ion Ratio Lower Upper

131 100

133 93.1 76.4 114.6

119 66.2 53.5 80.3





#61

Pentachloroethane

Concen: 1.737 ug/l

RT: 11.418 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion:117 Resp: 14972

Ion Ratio Lower Upper

117 100

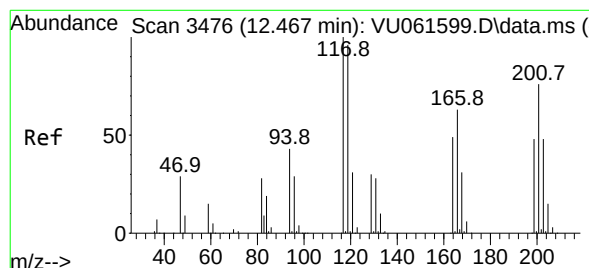
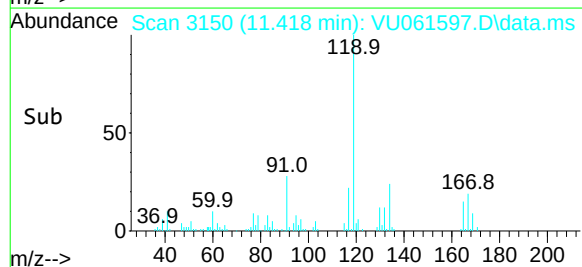
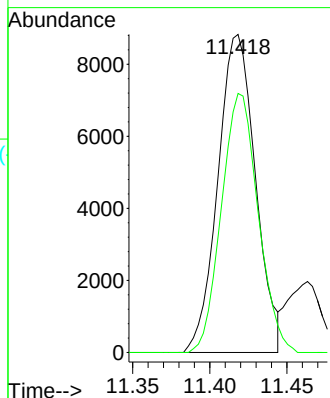
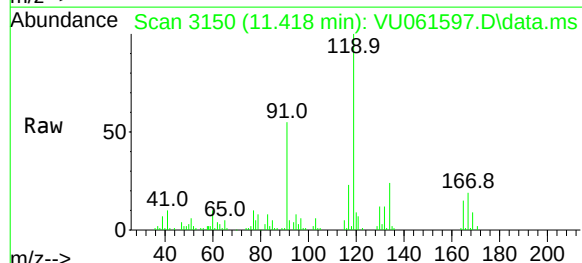
167 79.4 65.4 98.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 1.729 ug/l

RT: 12.463 min Scan# 3475

Delta R.T. -0.003 min

Lab File: VU061597.D

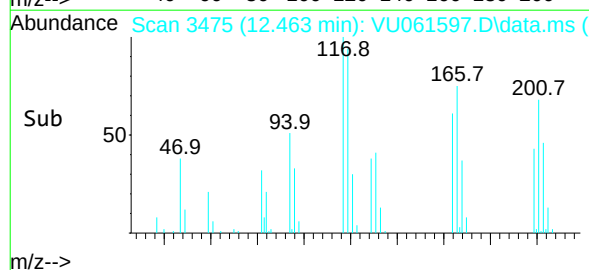
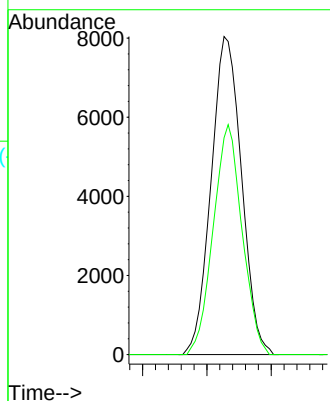
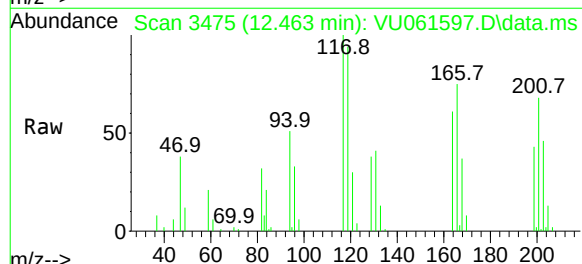
Acq: 12 Nov 2024 09:57

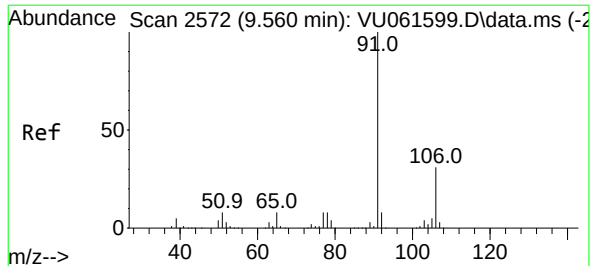
Tgt Ion:117 Resp: 13200

Ion Ratio Lower Upper

117 100

201 68.6 61.0 91.6





#63

Ethyl Benzene

Concen: 1.780 ug/l

RT: 9.563 min Scan# 2572

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 104015

Ion Ratio Lower Upper

91 100

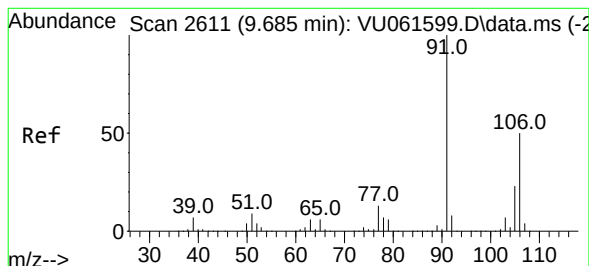
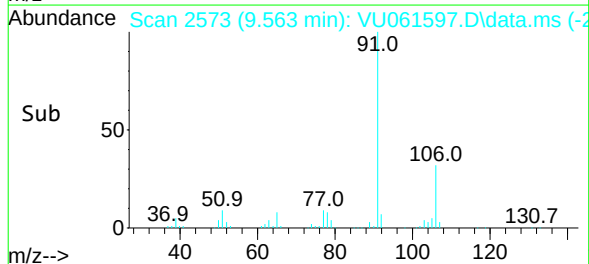
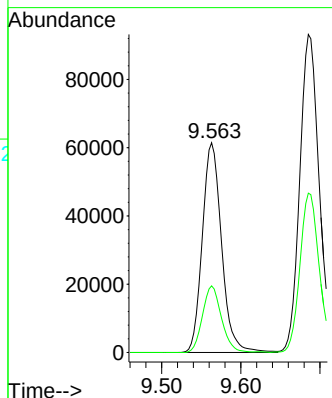
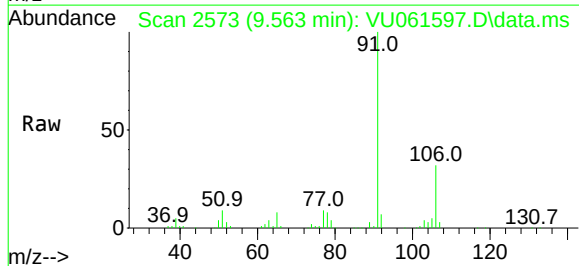
106 31.8 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#64

m/p-Xylenes

Concen: 3.609 ug/l

RT: 9.685 min Scan# 2611

Delta R.T. -0.000 min

Lab File: VU061597.D

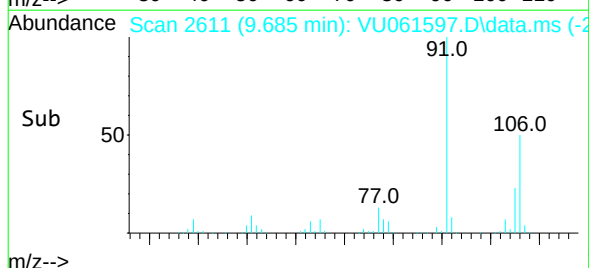
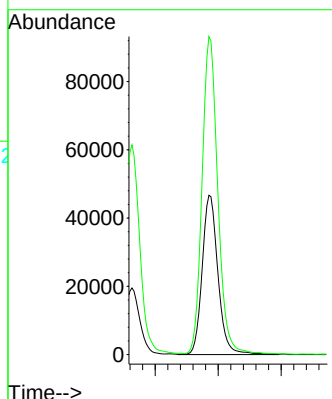
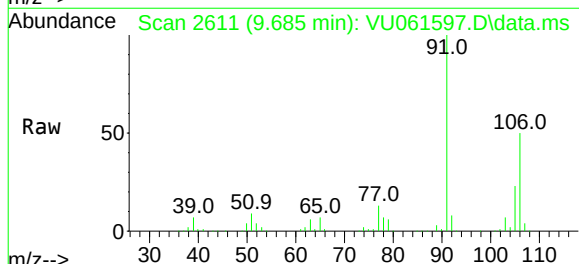
Acq: 12 Nov 2024 09:57

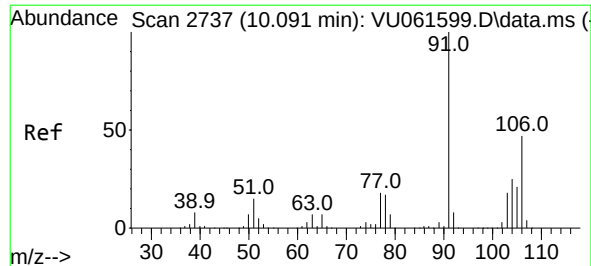
Tgt Ion:106 Resp: 81242

Ion Ratio Lower Upper

106 100

91 199.2 161.3 241.9





#65

o-Xylene

Concen: 1.743 ug/l

RT: 10.094 min Scan# 2737

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion:106 Resp: 38253

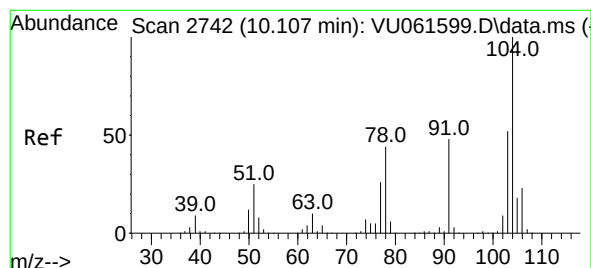
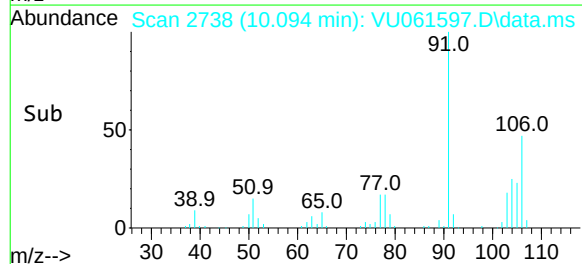
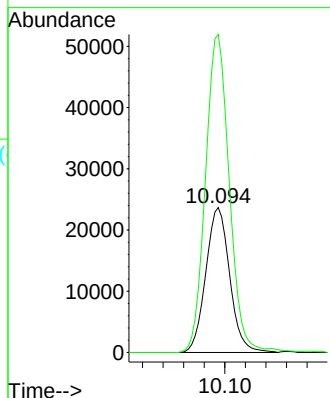
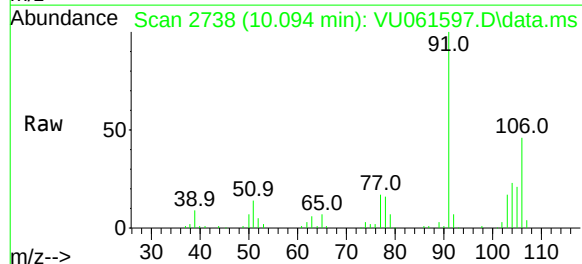
Ion Ratio Lower Upper

106 100

91 219.3 106.7 320.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#66

Styrene

Concen: 1.695 ug/l

RT: 10.110 min Scan# 2743

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

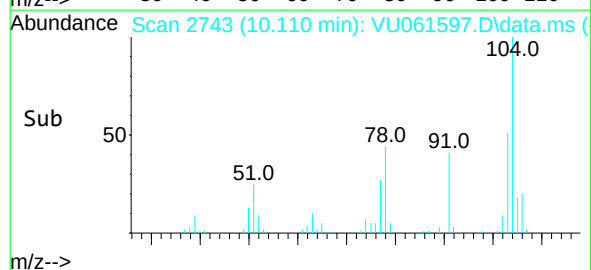
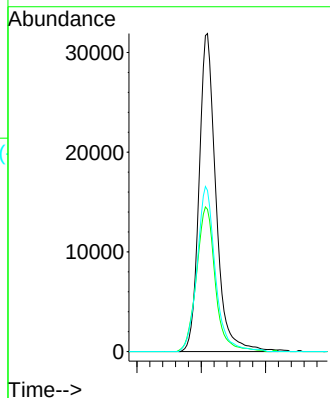
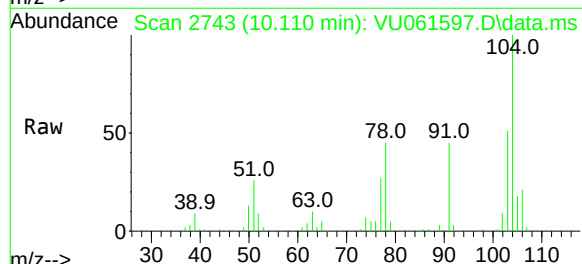
Tgt Ion:104 Resp: 58200

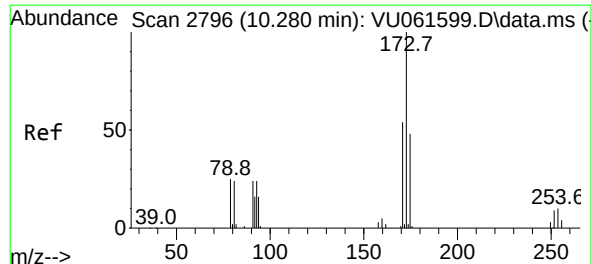
Ion Ratio Lower Upper

104 100

78 50.7 39.2 58.8

103 56.0 44.9 67.3





#67

Bromoform

Concen: 1.711 ug/l

RT: 10.280 min Scan# 2796

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

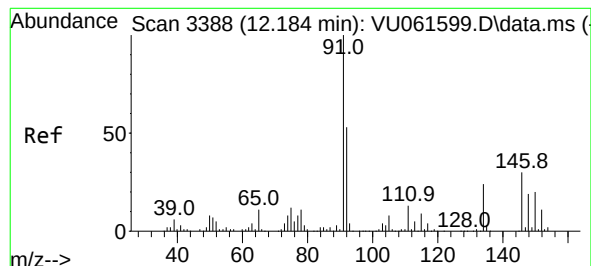
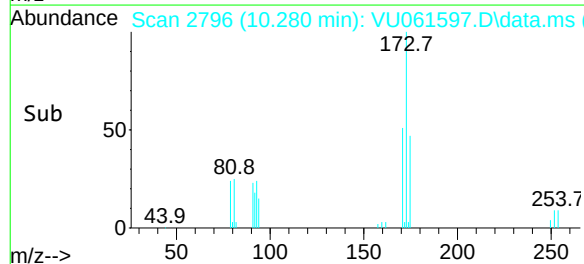
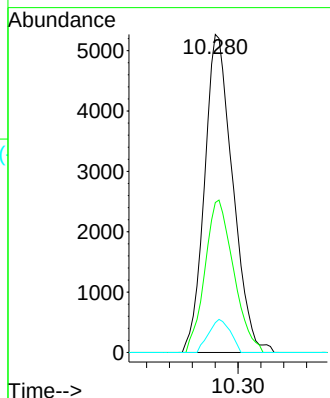
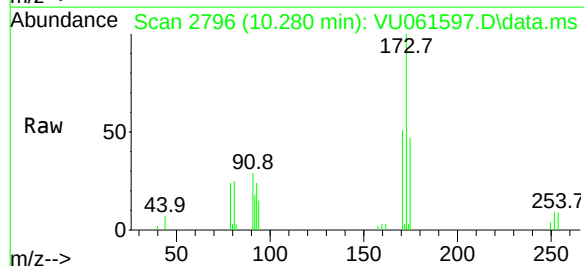
ClientSampleId :

VSTDICC002

Tgt	Ion:173	Resp:	9013
Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.4	57.6
254	8.0	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 1.003 ug/l

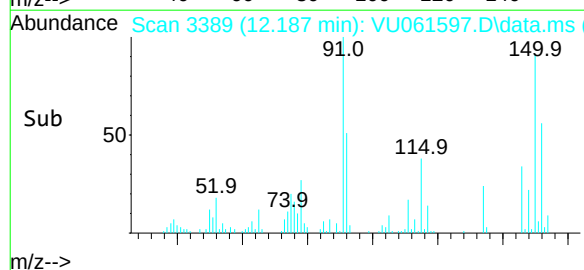
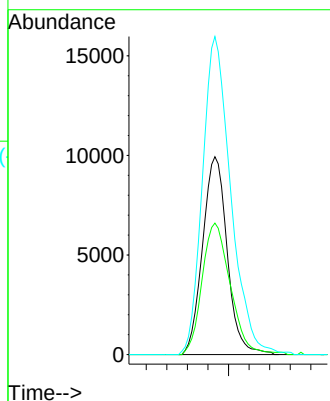
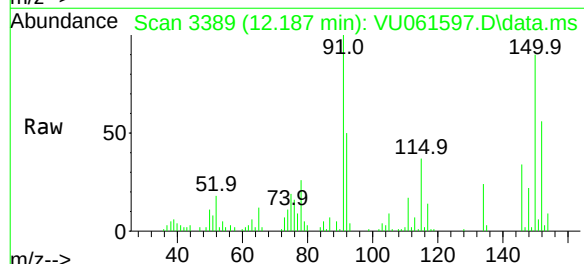
RT: 12.187 min Scan# 3389

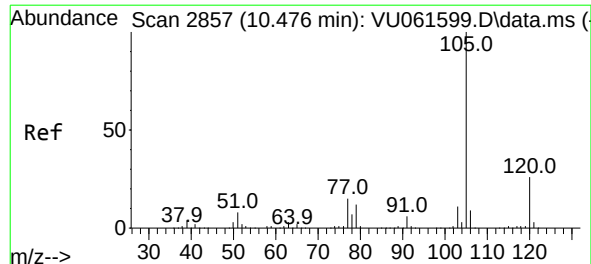
Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt	Ion:152	Resp:	16526
Ion	Ratio	Lower	Upper
152	100		
115	76.3	0.0	259.0
150	185.0	0.0	650.2





#69

Isopropylbenzene

Concen: 1.762 ug/l

RT: 10.476 min Scan# 2857

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC002

Tgt Ion: 105 Resp: 90437

Ion Ratio Lower Upper

105 100

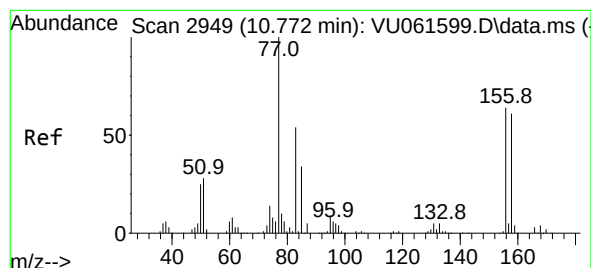
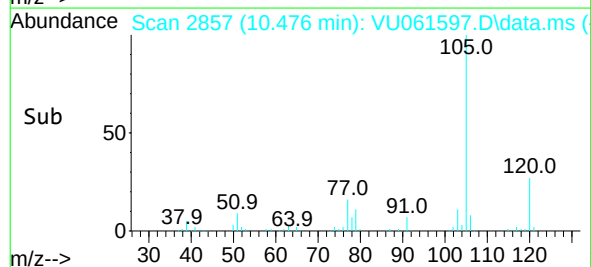
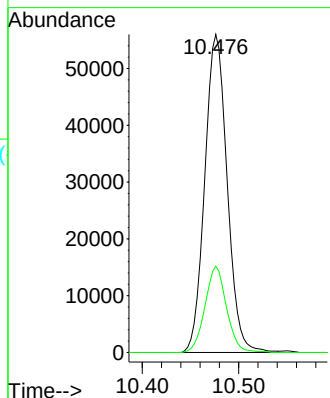
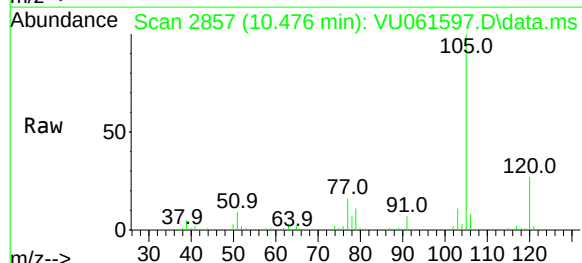
120 26.0 13.2 39.6

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 1.841 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

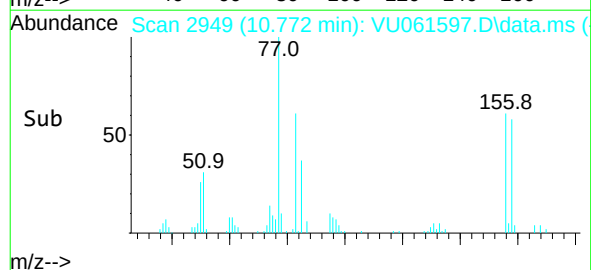
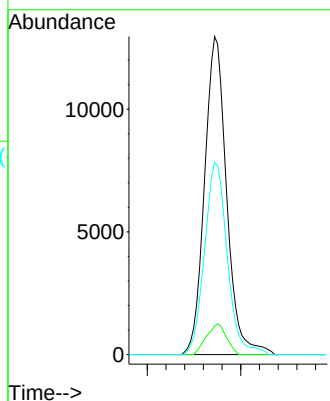
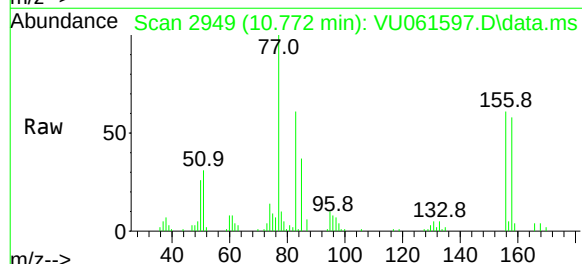
Tgt Ion: 83 Resp: 21260

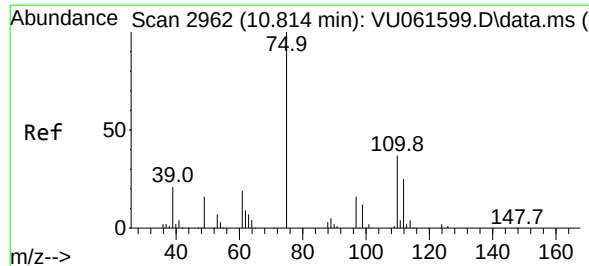
Ion Ratio Lower Upper

83 100

131 8.7 7.9 11.9

85 62.2 51.4 77.2





#71

1,2,3-Trichloropropane

Concen: 1.809 ug/l m

RT: 10.814 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 75 Resp: 17026

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 32.1 0.0 61.6

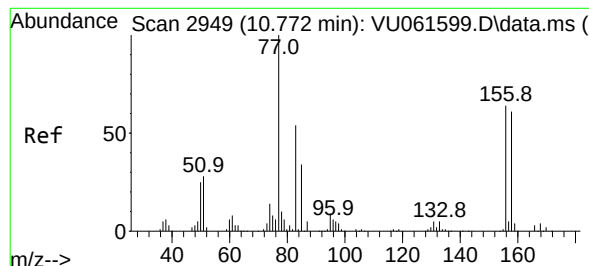
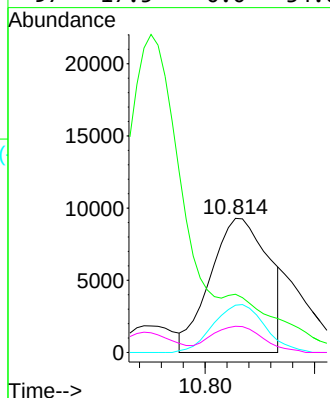
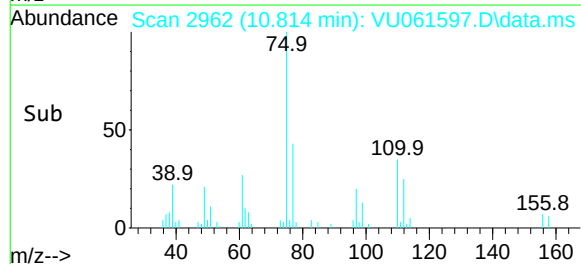
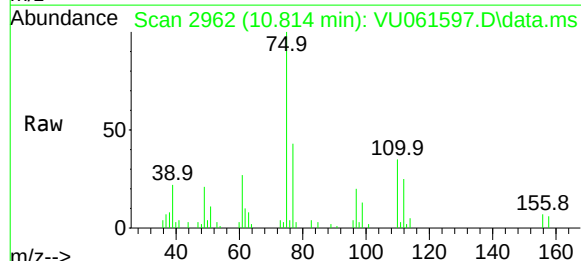
97 17.5 0.0 34.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

Concen: 1.778 ug/l

RT: 10.775 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

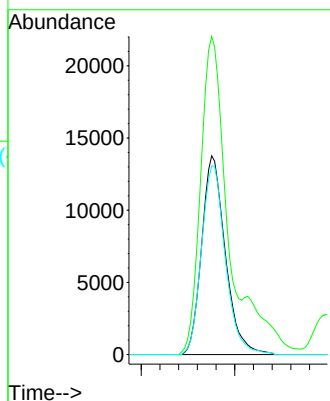
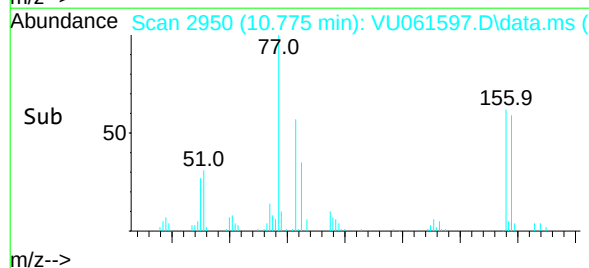
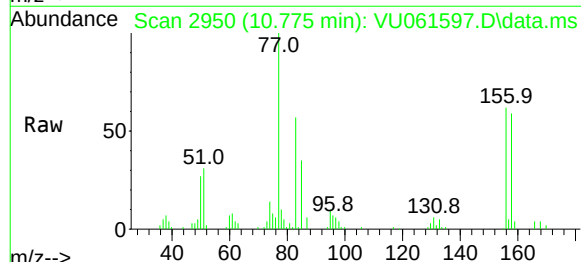
Tgt Ion:156 Resp: 24207

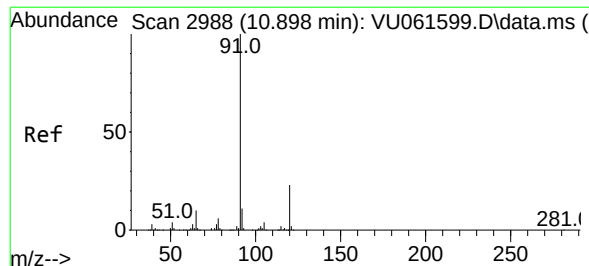
Ion Ratio Lower Upper

156 100

77 163.2 0.0 313.0

158 95.8 0.0 193.2





#73

n-propylbenzene

Concen: 1.760 ug/l

RT: 10.897 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion:120 Resp: 26717

Ion Ratio Lower Upper

120 100

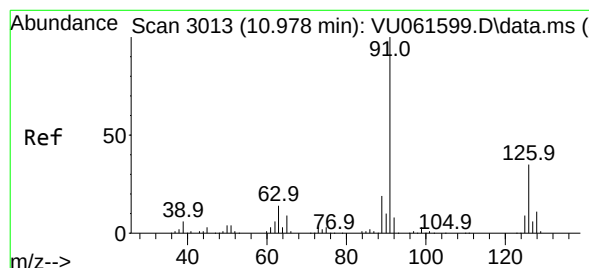
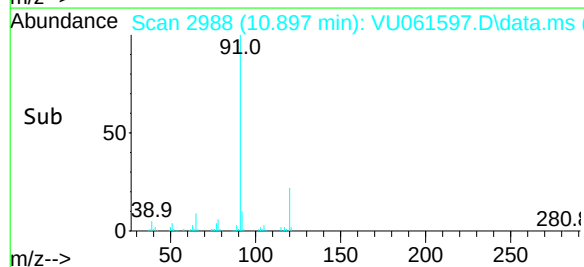
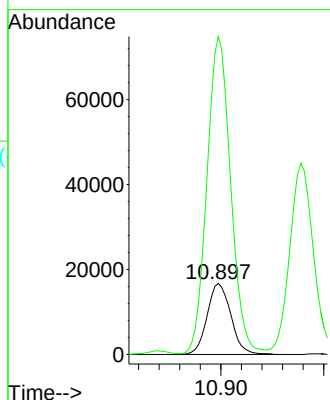
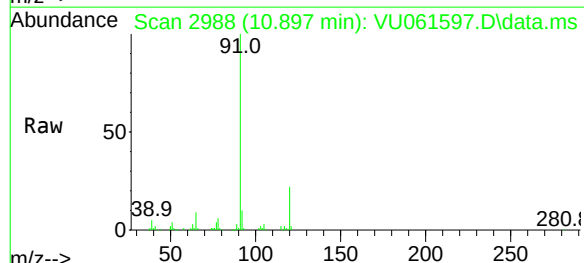
91 446.8 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#74

2-Chlorotoluene

Concen: 1.780 ug/l

RT: 10.978 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU061597.D

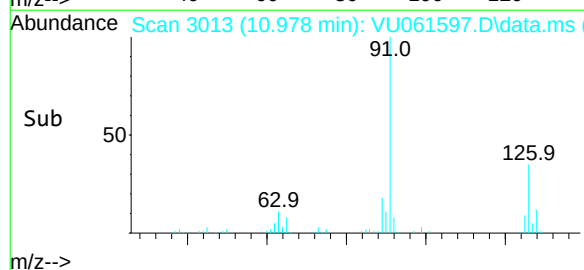
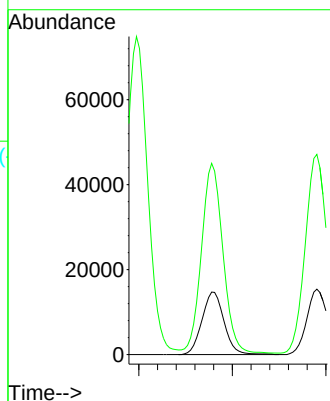
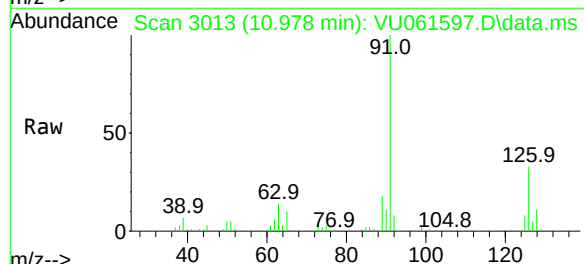
Acq: 12 Nov 2024 09:57

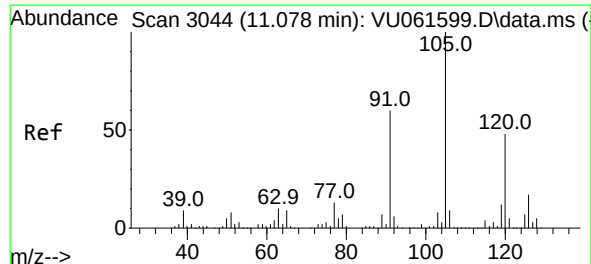
Tgt Ion:126 Resp: 24103

Ion Ratio Lower Upper

126 100

91 299.1 0.0 587.6





#75

1,3,5-Trimethylbenzene

Concen: 1.760 ug/l

RT: 11.081 min Scan# 3044

Delta R.T. 0.003 min

Lab File: VU061597.D

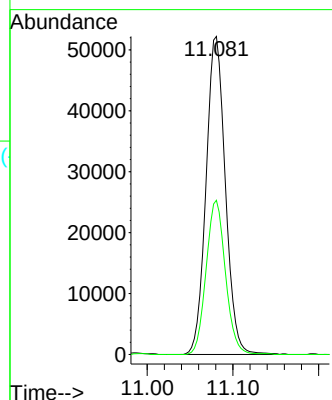
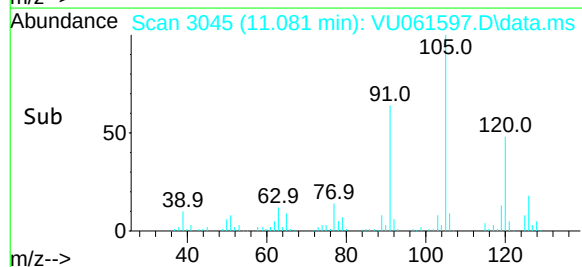
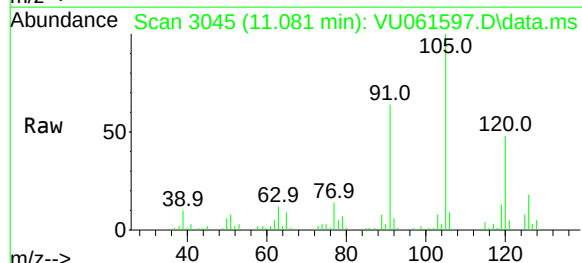
Acq: 12 Nov 2024 09:57

Tgt Ion:105 Resp: 81811

Ion Ratio Lower Upper

105 100

120 48.3 38.8 58.2



Instrument :

MSVOA_U

ClientSampleId :

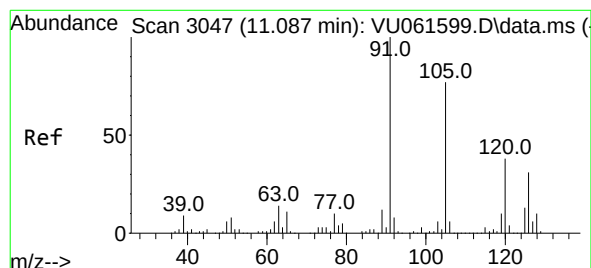
VSTDIC002

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#76

4-Chlorotoluene

Concen: 1.799 ug/l

RT: 11.090 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VU061597.D

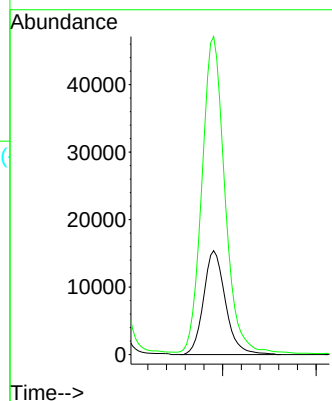
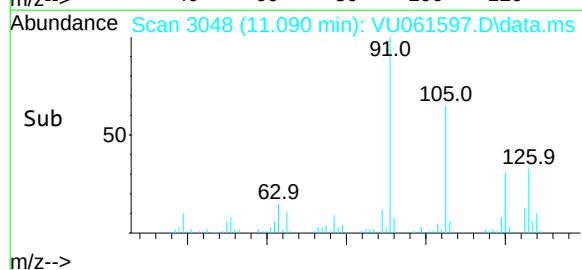
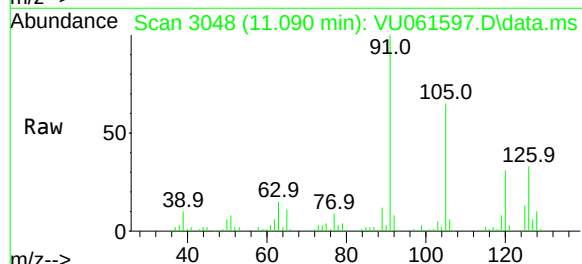
Acq: 12 Nov 2024 09:57

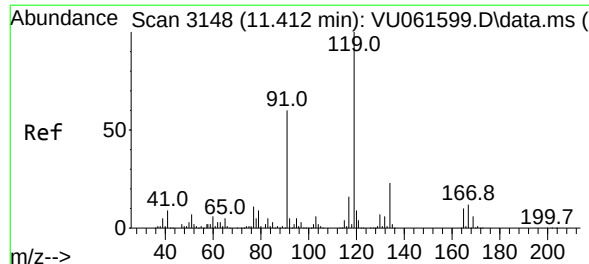
Tgt Ion:126 Resp: 25052

Ion Ratio Lower Upper

126 100

91 320.1 0.0 650.4





#77

tert-Butylbenzene

Concen: 1.778 ug/l

RT: 11.412 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

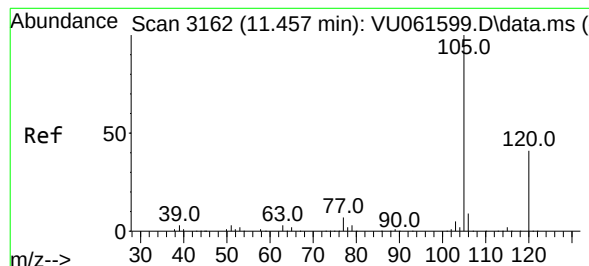
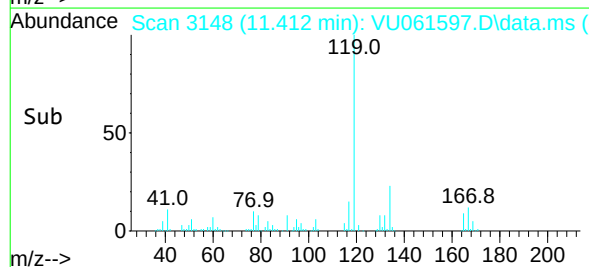
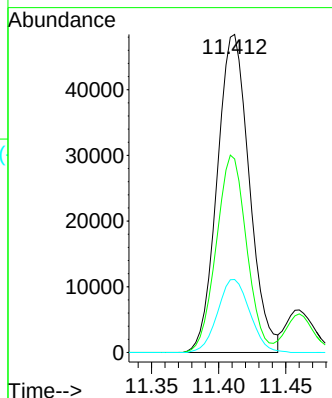
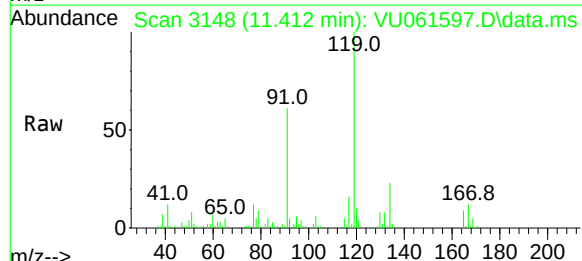
ClientSampleId :

VSTDIC002

Tgt Ion:	119	Resp:	80664
Ion	Ratio	Lower	Upper
119	100		
91	58.8	29.2	87.6
134	23.0	18.4	27.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 1.688 ug/l

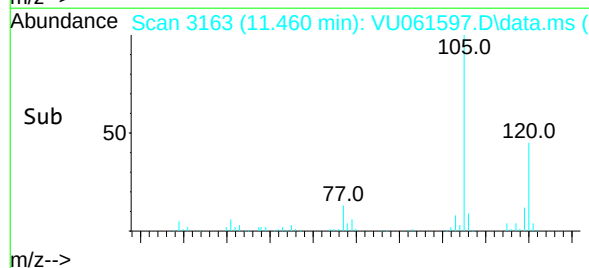
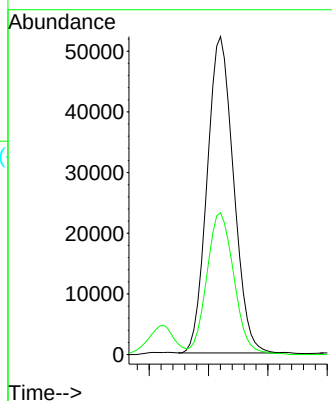
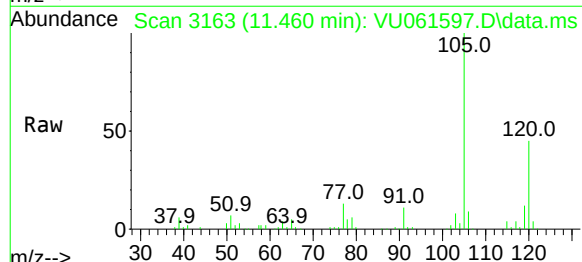
RT: 11.460 min Scan# 3163

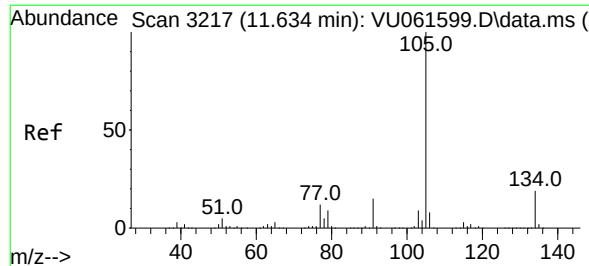
Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	105	Resp:	80780
Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.7	68.0





#79

sec-Butylbenzene

Concen: 1.784 ug/l

RT: 11.634 min Scan# 3217

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC002

Tgt Ion: 105 Resp: 107322

Ion Ratio Lower Upper

105 100

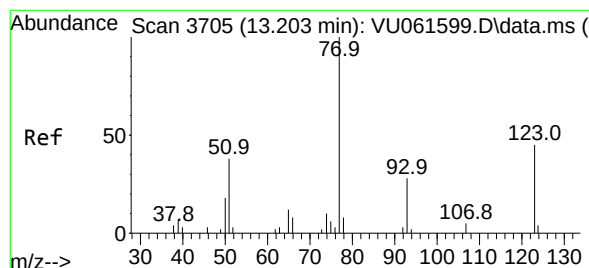
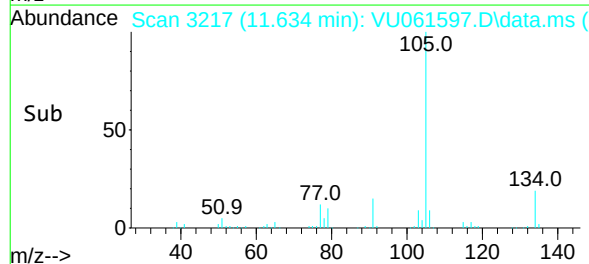
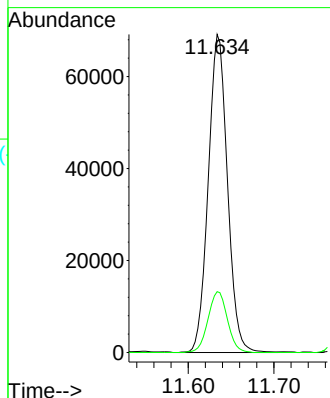
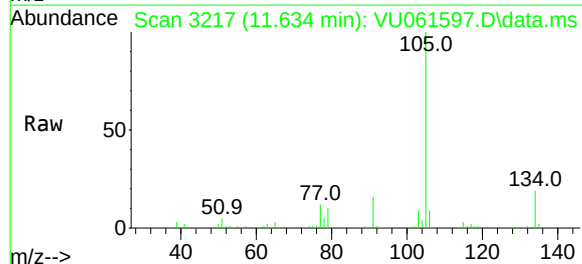
134 19.3 15.8 23.8

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#80

Nitrobenzene

Concen: 9.502 ug/l m

RT: 13.222 min Scan# 3711

Delta R.T. 0.019 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

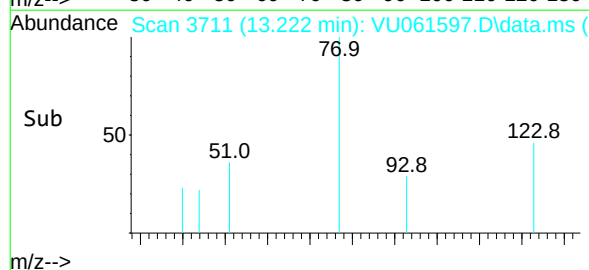
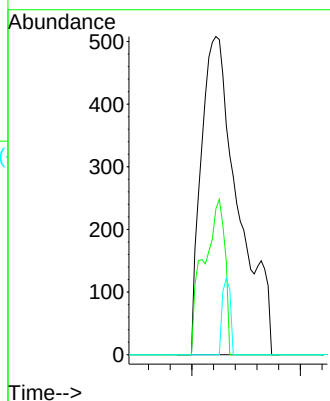
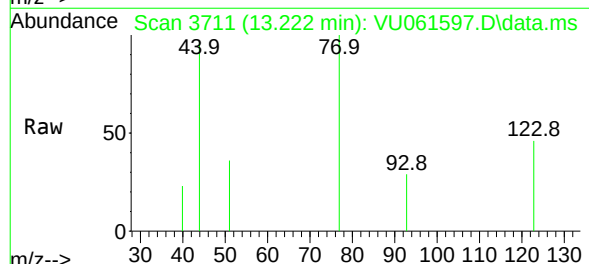
Tgt Ion: 77 Resp: 1195

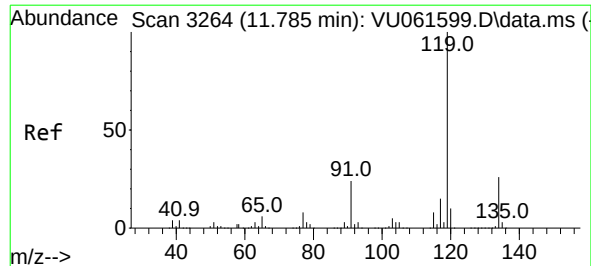
Ion Ratio Lower Upper

77 100

123 28.2 16.9 60.1

65 5.3 9.4 12.0#





#81

p-Isopropyltoluene

Concen: 1.699 ug/l

RT: 11.785 min Scan# 32

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

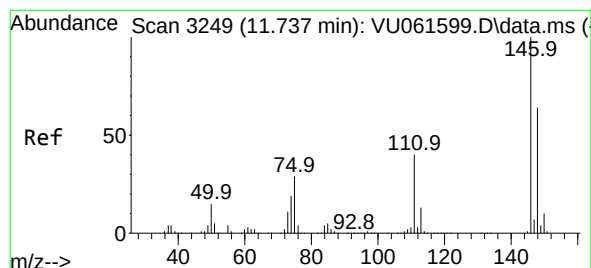
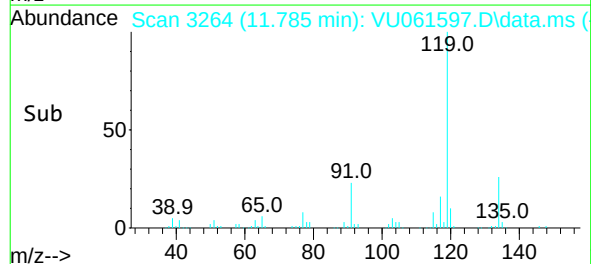
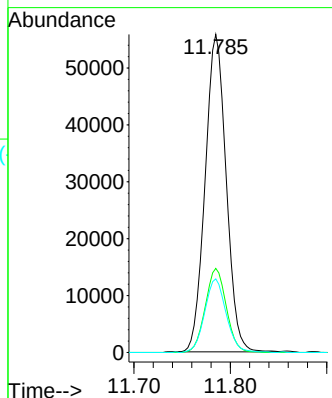
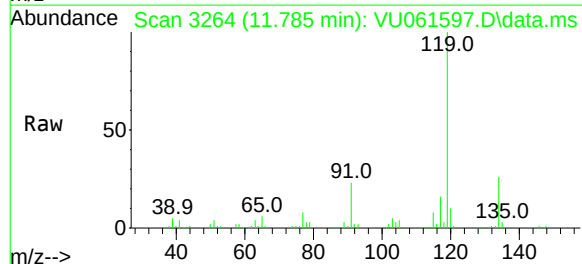
ClientSampleId :

VSTDICC002

Tgt Ion:	119	Resp:	84670
Ion Ratio	Lower	Upper	
119	100		
134	26.4	20.9	31.3
91	23.7	18.8	28.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#82

1,3-Dichlorobenzene

Concen: 1.777 ug/l

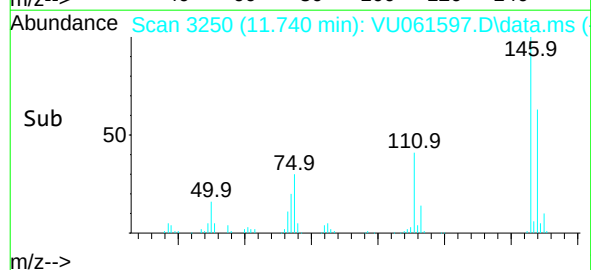
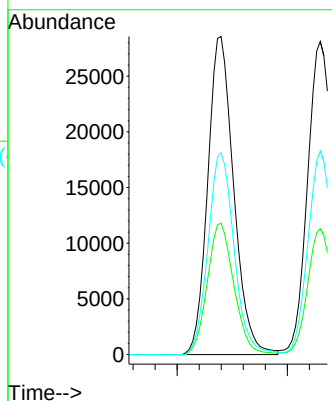
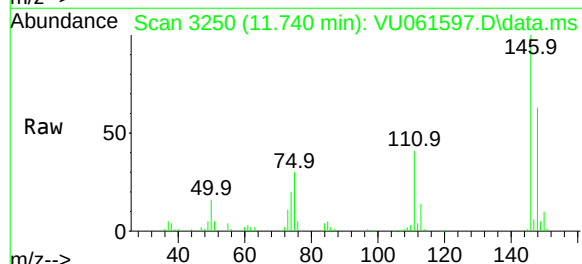
RT: 11.740 min Scan# 3250

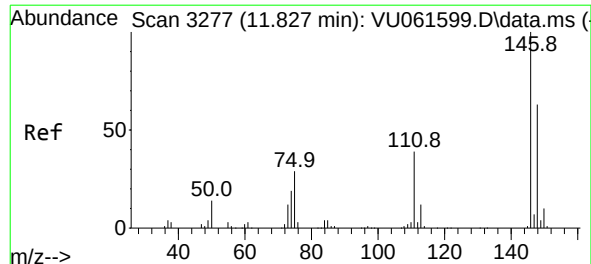
Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	146	Resp:	46782
Ion Ratio	Lower	Upper	
146	100		
111	42.1	32.6	49.0
148	63.7	51.0	76.4





#83

1,4-Dichlorobenzene

Concen: 1.766 ug/l

RT: 11.830 min Scan# 3277

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

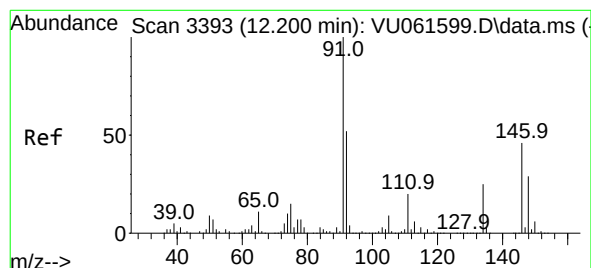
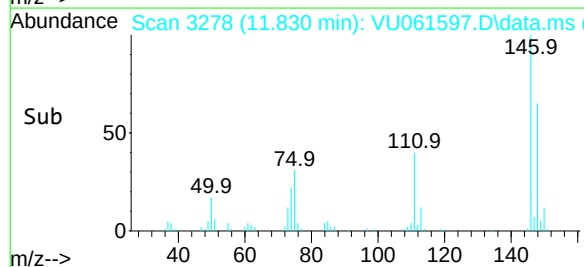
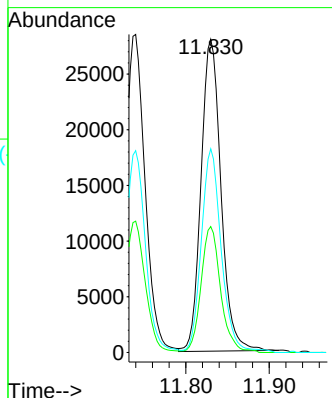
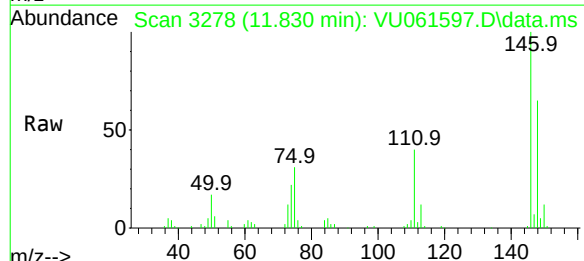
ClientSampleId :

VSTDIC002

Tgt Ion:	146	Resp:	46524
Ion	Ratio	Lower	Upper
146	100		
111	39.7	31.2	46.8
148	65.6	50.2	75.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#84

n-Butylbenzene

Concen: 1.702 ug/l

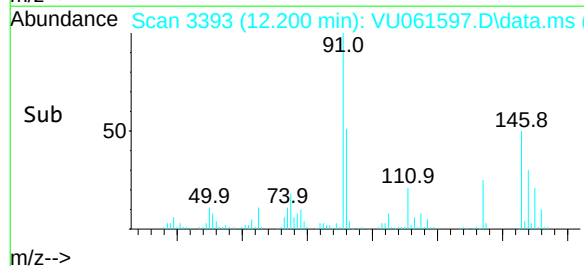
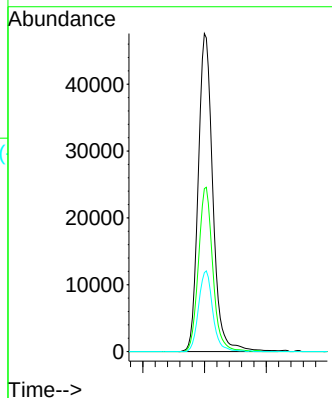
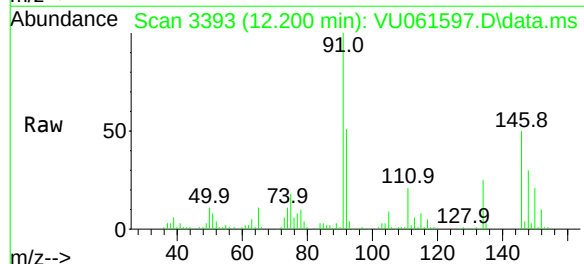
RT: 12.200 min Scan# 3393

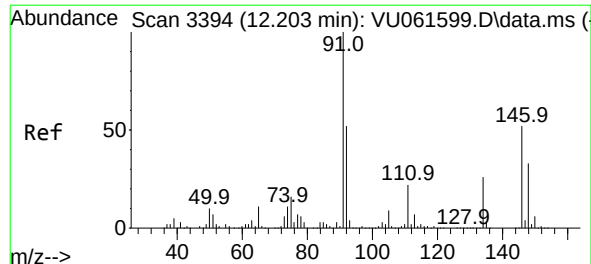
Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	91	Resp:	78185
Ion	Ratio	Lower	Upper
91	100		
92	50.8	41.8	62.6
134	24.6	20.2	30.4





#85

1,2-Dichlorobenzene

Concen: 1.795 ug/l

RT: 12.203 min Scan# 3394

Delta R.T. -0.000 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

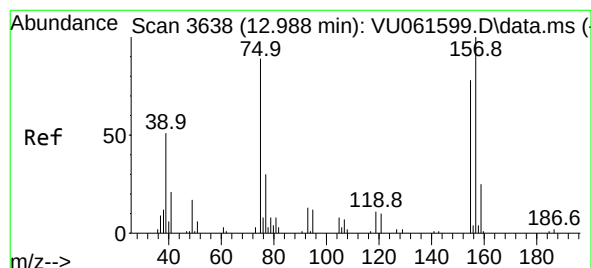
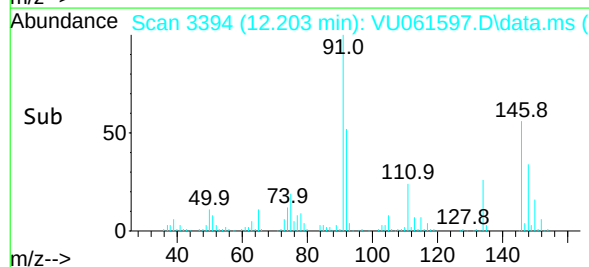
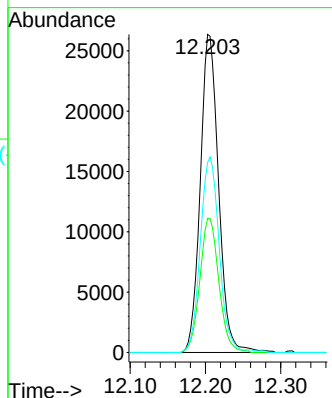
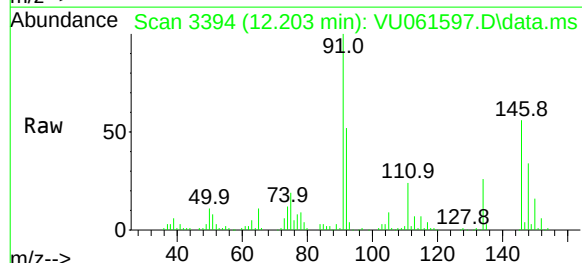
ClientSampleId :

VSTDIC002

Tgt	Ion:	146	Resp:	44588
Ion	Ratio	Lower	Upper	
146	100			
111	43.8	21.3	63.9	
148	63.9	32.0	96.2	

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#86

1,2-Dibromo-3-Chloropropane

Concen: 1.708 ug/l

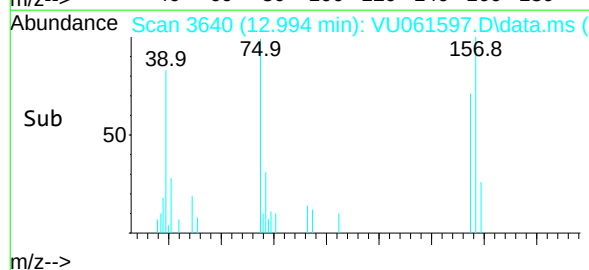
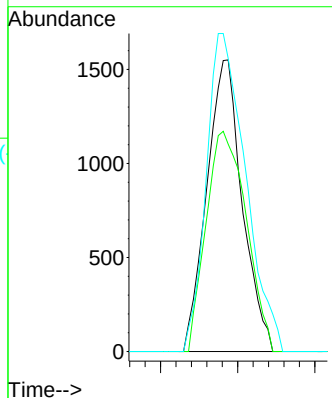
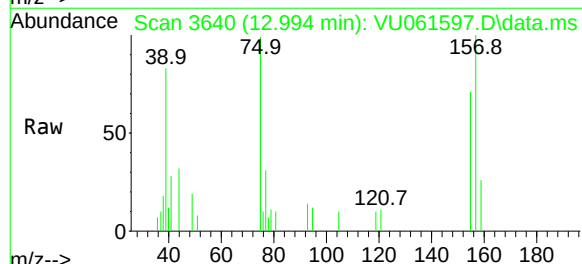
RT: 12.994 min Scan# 3640

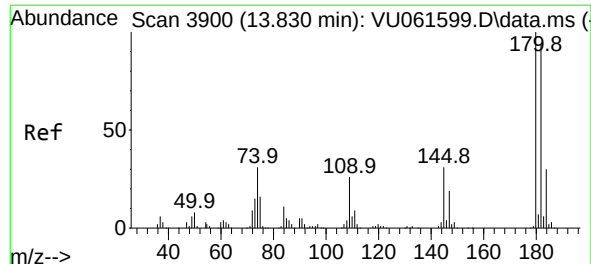
Delta R.T. 0.006 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt	Ion:	75	Resp:	2475
Ion	Ratio	Lower	Upper	
75	100			
155	85.6	68.8	103.2	
157	120.7	88.2	132.4	





#87

1,2,4-Trichlorobenzene

Concen: 1.769 ug/l

RT: 13.833 min Scan# 3900

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

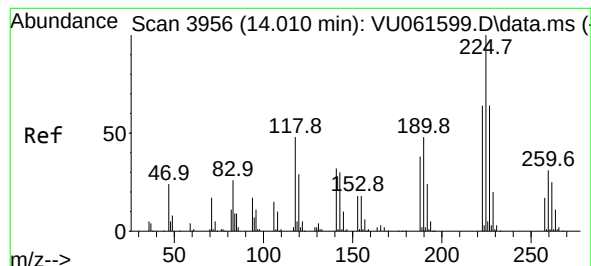
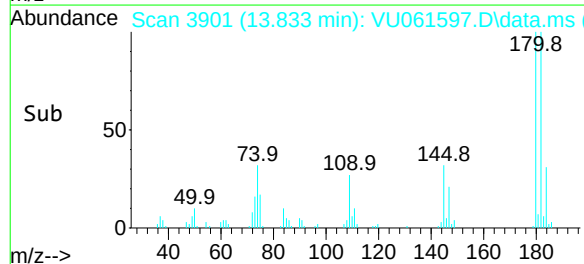
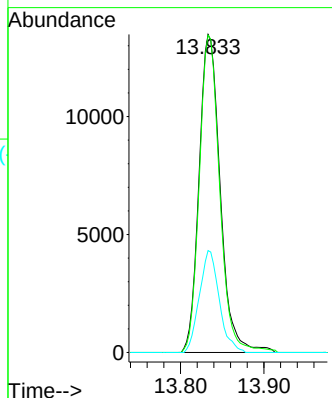
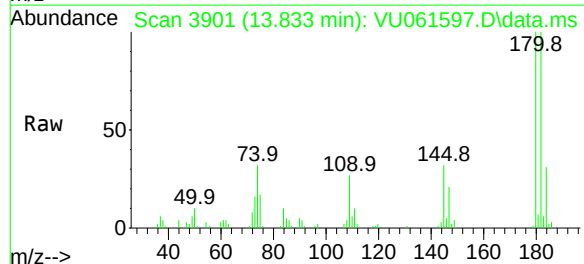
ClientSampleId :

VSTDICC002

Tgt Ion:	180	Resp:	23780
Ion Ratio	Lower	Upper	
180	100		
182	96.0	75.3	112.9
145	30.1	24.3	36.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#88

Hexachlorobutadiene

Concen: 1.822 ug/l

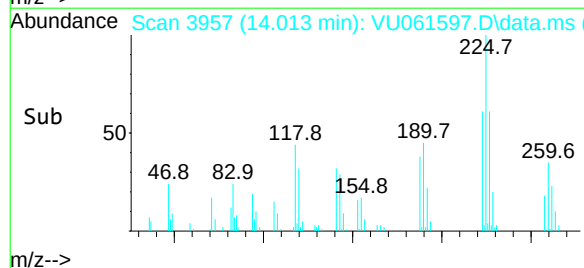
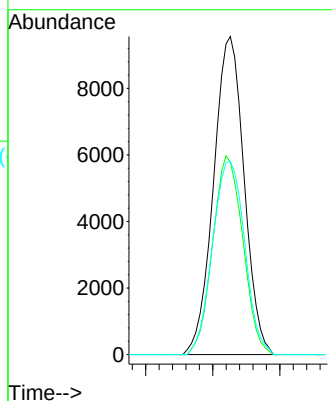
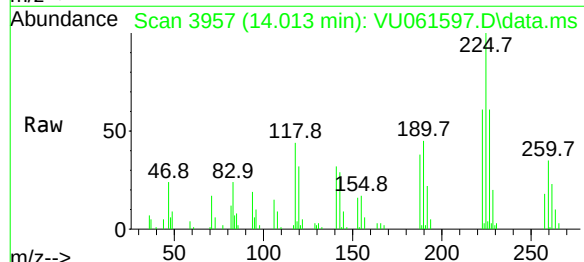
RT: 14.013 min Scan# 3957

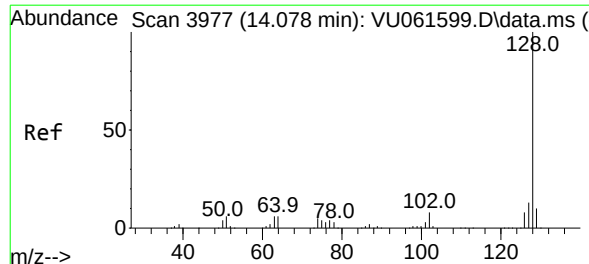
Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	225	Resp:	15118
Ion Ratio	Lower	Upper	
225	100		
223	61.8	50.8	76.2
227	64.0	51.2	76.8





#89

Naphthalene

Concen: 1.721 ug/l

RT: 14.084 min Scan# 39

Delta R.T. 0.006 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Instrument :

MSVOA_U

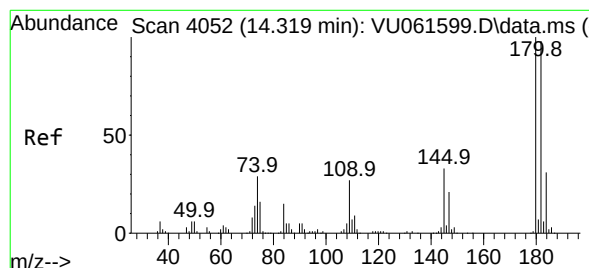
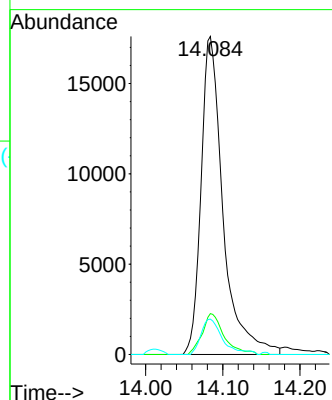
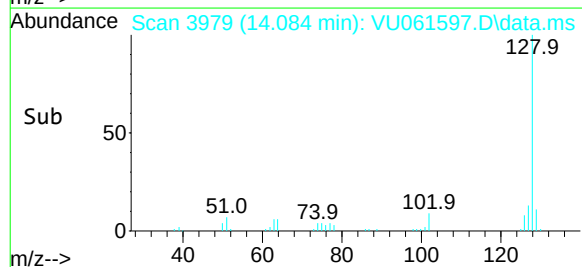
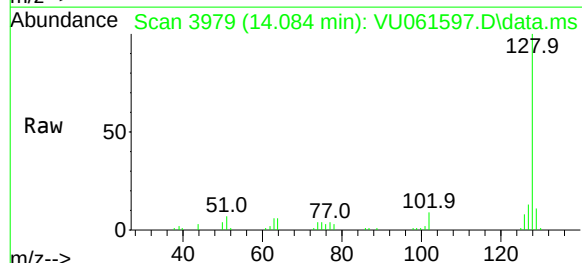
ClientSampleId :

VSTDIC002

Tgt Ion:	128	Resp:	34857
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.3	15.5
129	10.9	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#90

1,2,3-Trichlorobenzene

Concen: 1.733 ug/l

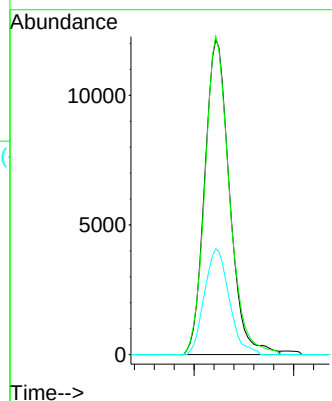
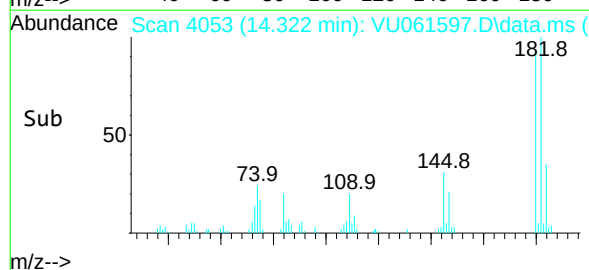
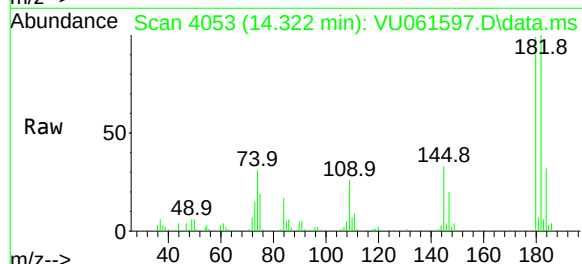
RT: 14.322 min Scan# 4053

Delta R.T. 0.003 min

Lab File: VU061597.D

Acq: 12 Nov 2024 09:57

Tgt Ion:	180	Resp:	21000
Ion Ratio	Lower	Upper	
180	100		
182	99.8	77.9	116.9
145	33.5	25.9	38.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061598.D
 Acq On : 12 Nov 2024 10:21
 Operator : MD/SY
 Sample : VSTDICC005
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:42:47 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.107	96	48901	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	17476	1.030	ug/l	0.00
Spiked Amount	1.000		Recovery	=	103.000%	
68) 1,2-Dichlorobenzene-d4	12.184	152	17355	1.027	ug/l	0.00
Spiked Amount	1.000		Recovery	=	103.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	68401	5.442	ug/l	100
3) Chloromethane	1.518	50	62019	5.159	ug/l	99
4) Vinyl Chloride	1.602	62	71903	5.316	ug/l	99
5) Bromomethane	1.853	94	42651	4.994	ug/l	100
6) Chloroethane	1.930	64	55678	5.090	ug/l	99
7) Trichlorofluoromethane	2.133	101	103581	5.350	ug/l	99
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	55563	5.362	ug/l	99
9) 1,1-Dichloroethene	2.573	96	58957	5.431	ug/l	98
10) Iodomethane	2.715	142	55475	4.735	ug/l	100
11) Allyl Chloride	2.917	41	66981	5.332	ug/l	98
12) Acrylonitrile	3.319	53	23783	11.077	ug/l	98
13) Acetone	2.641	43	75846	25.309	ug/l	99
14) Carbon Disulfide	2.789	76	184294	5.254	ug/l	100
15) Methylene Chloride	3.039	84	69167	5.275	ug/l	99
16) trans-1,2-Dichloroethene	3.345	96	66708	5.290	ug/l	98
17) 1,1-Dichloroethane	3.859	63	119581	5.317	ug/l	100
18) 2-Butanone	4.705	43	93127	26.796	ug/l	99
19) Cyclohexane	5.380	56	100801m	5.524	ug/l	
20) Methylcyclohexane	6.753	83	113416	5.543	ug/l	99
21) 2,2-Dichloropropane	4.653	77	95685	5.290	ug/l	100
22) cis-1,2-Dichloroethene	4.657	96	73795	5.364	ug/l	98
23) Diethyl Ether	2.371	59	42565	5.260	ug/l	99
24) tert-Butyl Alcohol	3.232	59	45475m	55.115	ug/l	
25) Methyl tert-Butyl Ether	3.354	73	142621	5.359	ug/l	99
26) Bromochloromethane	4.965	128	32890	5.426	ug/l	99
27) Chloroform	5.078	83	126552	5.305	ug/l	100
28) 1,1,1-Trichloroethane	5.306	97	107023	5.430	ug/l	99
29) 1,1-Dichloropropene	5.518	75	94300	5.326	ug/l	98
30) Carbon Tetrachloride	5.515	117	92534	5.478	ug/l	97
31) Isopropyl Ether	3.981	45	158504	5.296	ug/l	98
32) Ethyl-t-butyl ether	4.489	59	153379	5.361	ug/l	99
33) Tert-Amyl methyl ether	5.930	73	140769	5.444	ug/l	99
34) Propionitrile	4.788	54	22623	27.855	ug/l	# 96
35) Benzene	5.766	78	283736	5.376	ug/l	99
36) 1,2-Dichloroethane	5.785	62	79033	5.389	ug/l	100
37) Trichloroethene	6.534	130	75591	5.409	ug/l	100
38) 1,2-Dichloropropane	6.782	63	70720	5.337	ug/l	98
39) Methacrylonitrile	4.968	41	16285	5.602	ug/l	98
40) Methyl acrylate	4.846	55	25857	4.914	ug/l	97
41) Tetrahydrofuran	5.055	42	18682	11.379	ug/l	94
42) 1-Chlorobutane	5.448	56	121646	5.505	ug/l	98
43) Dibromomethane	6.911	93	37441	5.335	ug/l	98
44) Bromodichloromethane	7.097	83	85630	5.403	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061598.D
 Acq On : 12 Nov 2024 10:21
 Operator : MD/SY
 Sample : VSTDICC005
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:42:47 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.782	43	175902	26.947	ug/l	100
46) t-1,4-Dichloro-2-butene	10.817	75	39525m	10.951	ug/l	
47) Methyl methacrylate	6.952	69	63518	11.404	ug/l	99
48) Ethyl methacrylate	8.328	69	62824	5.549	ug/l	100
49) Toluene	7.962	92	175035	5.431	ug/l	98
50) t-1,3-Dichloropropene	8.203	75	78836	5.560	ug/l	97
51) cis-1,3-Dichloropropene	7.599	75	96945	5.329	ug/l	97
52) 1,1,2-Trichloroethane	8.390	97	51418	5.345	ug/l	98
53) 1,3-Dichloropropane	8.566	76	89025	5.423	ug/l	100
54) 2-Hexanone	8.679	43	146577	26.354	ug/l	97
55) Dibromochloromethane	8.801	129	56789	5.454	ug/l	98
56) 1,2-Dibromoethane	8.917	107	49027	5.423	ug/l	100
58) Tetrachloroethene	8.544	164	67674	5.383	ug/l	98
59) Chlorobenzene	9.438	112	191924	5.391	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.525	131	64215	5.465	ug/l	99
61) Pentachloroethane	11.418	117	49681	5.619	ug/l	96
62) Hexachloroethane	12.467	117	44245	4.790	ug/l	96
63) Ethyl Benzene	9.560	91	330561	5.515	ug/l	99
64) m/p-Xylenes	9.685	106	257825	11.169	ug/l	98
65) o-Xylene	10.090	106	124563	5.534	ug/l	100
66) Styrene	10.107	104	199151	4.995	ug/l	99
67) Bromoform	10.280	173	29325	5.428	ug/l	99
69) Isopropylbenzene	10.476	105	292449	5.555	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.772	83	64432	5.439	ug/l	100
71) 1,2,3-Trichloropropane	10.814	75	49335m	5.111	ug/l	
72) Bromobenzene	10.772	156	75119	5.382	ug/l	99
73) n-propylbenzene	10.898	120	87585	5.627	ug/l	99
74) 2-Chlorotoluene	10.978	126	78419	5.647	ug/l	99
75) 1,3,5-Trimethylbenzene	11.078	105	271296	5.692	ug/l	100
76) 4-Chlorotoluene	11.087	126	81429	5.701	ug/l	99
77) tert-Butylbenzene	11.412	119	260872	5.606	ug/l	99
78) 1,2,4-Trimethylbenzene	11.457	105	272986	5.011	ug/l	100
79) sec-Butylbenzene	11.634	105	347685	5.637	ug/l	99
80) Nitrobenzene	13.206	77	4594m	23.391	ug/l	
81) p-Isopropyltoluene	11.785	119	285141	4.976	ug/l	100
82) 1,3-Dichlorobenzene	11.737	146	146069	5.410	ug/l	99
83) 1,4-Dichlorobenzene	11.827	146	146140	5.408	ug/l	98
84) n-Butylbenzene	12.200	91	262542	4.975	ug/l	99
85) 1,2-Dichlorobenzene	12.203	146	140215	5.503	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.987	75	8553	4.864	ug/l	98
87) 1,2,4-Trichlorobenzene	13.833	180	77913	4.679	ug/l	99
88) Hexachlorobutadiene	14.013	225	45874	5.391	ug/l	100
89) Naphthalene	14.081	128	126112	4.580	ug/l	99
90) 1,2,3-Trichlorobenzene	14.322	180	72200	4.742	ug/l	97

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

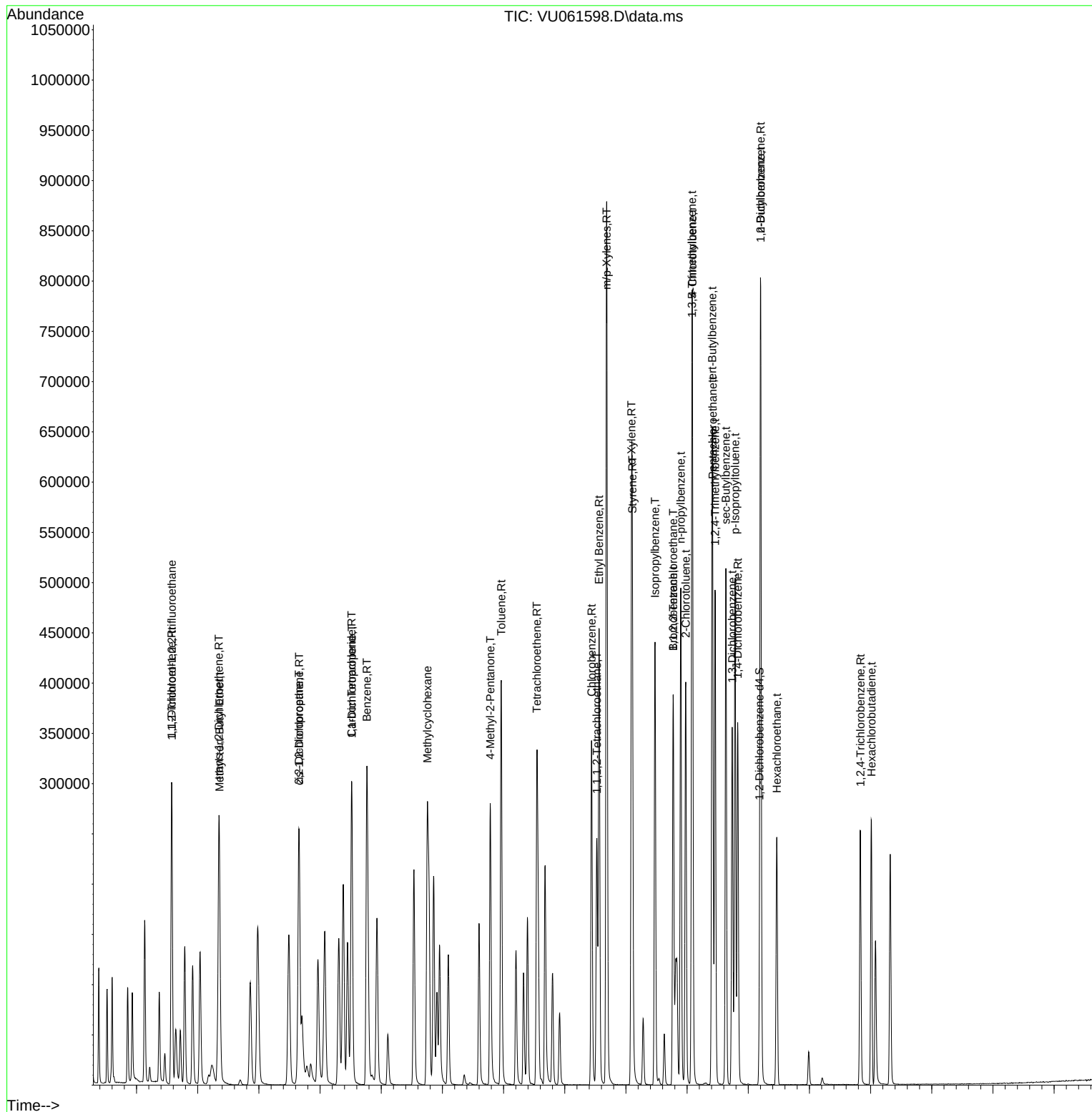
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU11224\
 Data File : VU061598.D
 Acq On : 12 Nov 2024 10:21
 Operator : MD/SY
 Sample : VSTDIC005
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

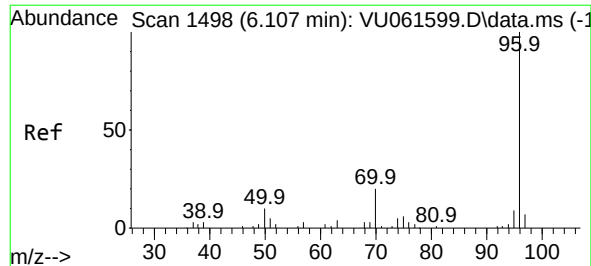
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:42:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U11224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 04:39:24 2024
 Response via : Initial Calibration





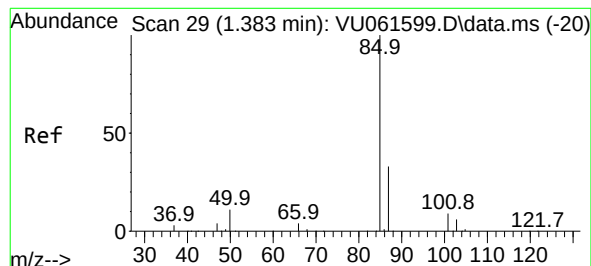
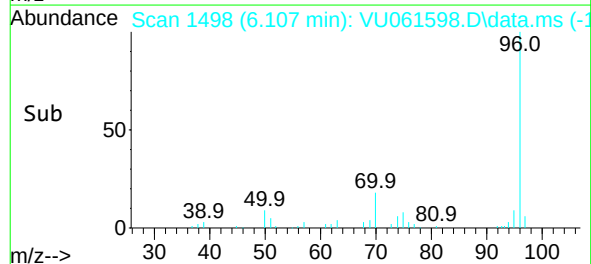
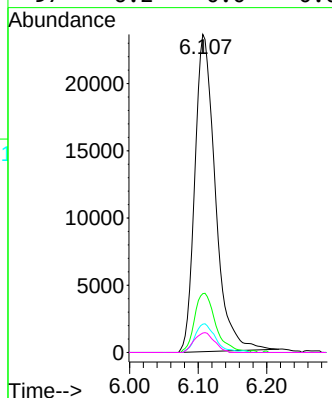
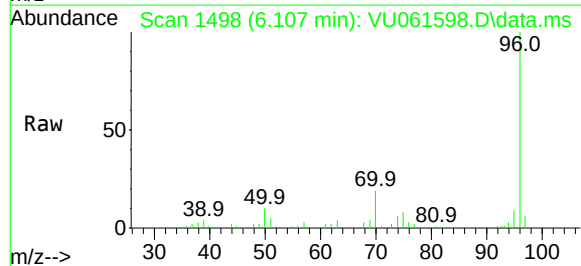
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 1498
Delta R.T. -0.000 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 48901
Ion Ratio Lower Upper
96 100
70 19.3 15.8 23.6
95 8.4 7.3 10.9
97 6.2 0.0 0.0#

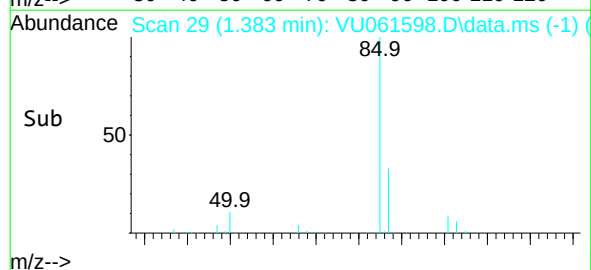
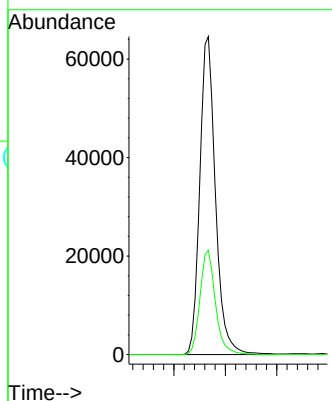
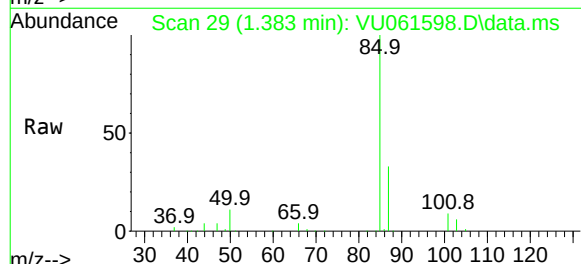
Manual Integrations
APPROVED

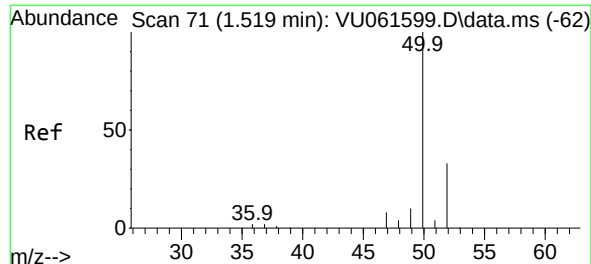
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#2
Dichlorodifluoromethane
Concen: 5.442 ug/l
RT: 1.383 min Scan# 29
Delta R.T. -0.000 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Tgt Ion: 85 Resp: 68401
Ion Ratio Lower Upper
85 100
87 32.8 16.4 49.2





#3

Chloromethane

Concen: 5.159 ug/l

RT: 1.518 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion: 50 Resp: 62019

Ion Ratio Lower Upper

50 100

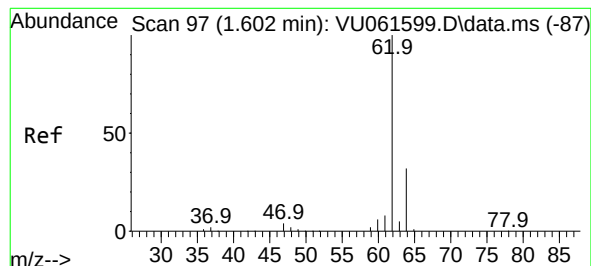
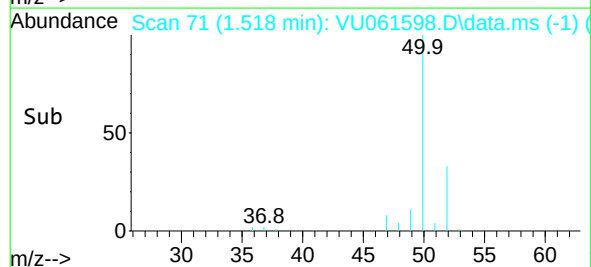
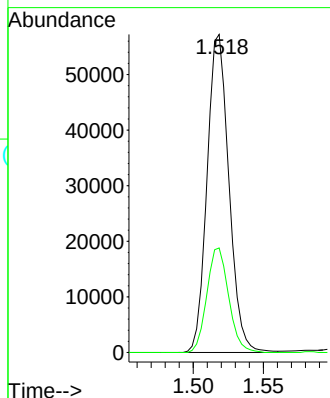
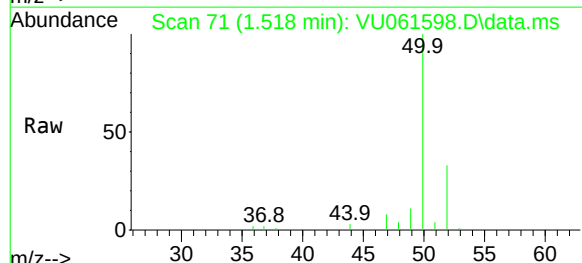
52 32.9 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 5.316 ug/l

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU061598.D

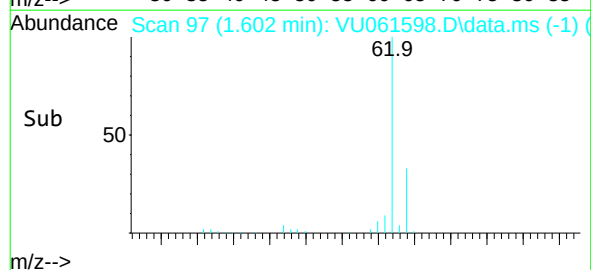
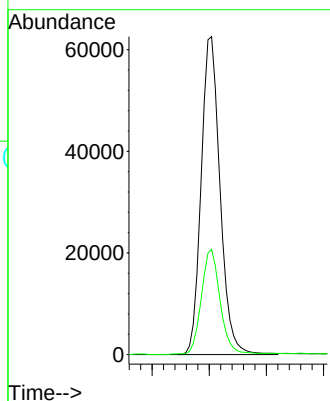
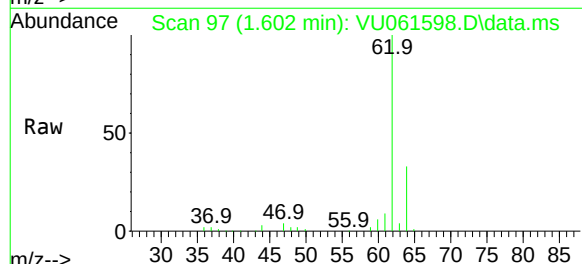
Acq: 12 Nov 2024 10:21

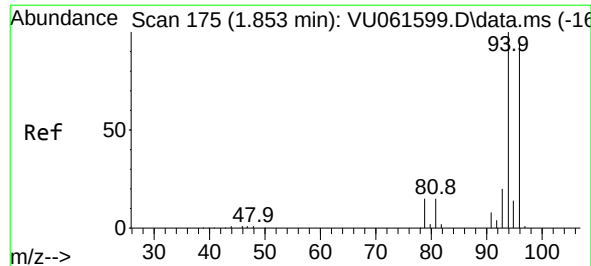
Tgt Ion: 62 Resp: 71903

Ion Ratio Lower Upper

62 100

64 32.8 25.6 38.4





#5

Bromomethane

Concen: 4.994 ug/l

RT: 1.853 min Scan# 175

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion: 94 Resp: 42651

Ion Ratio Lower Upper

94 100

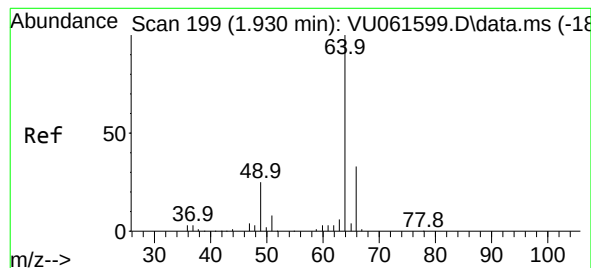
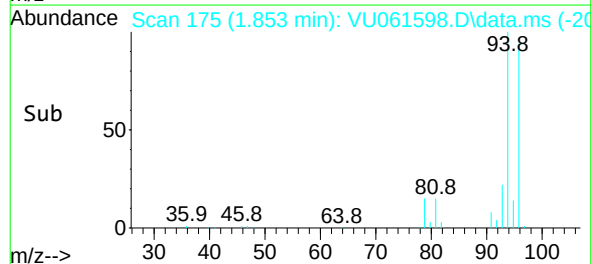
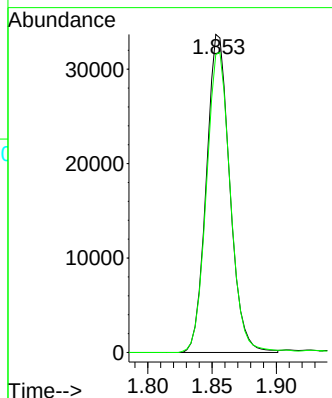
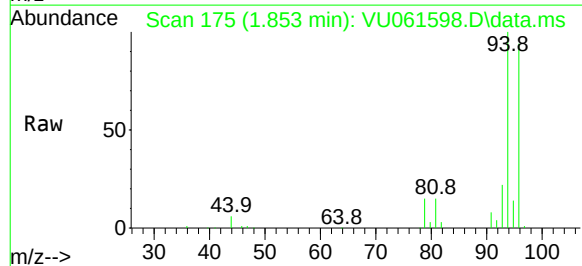
96 93.8 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#6

Chloroethane

Concen: 5.090 ug/l

RT: 1.930 min Scan# 199

Delta R.T. -0.000 min

Lab File: VU061598.D

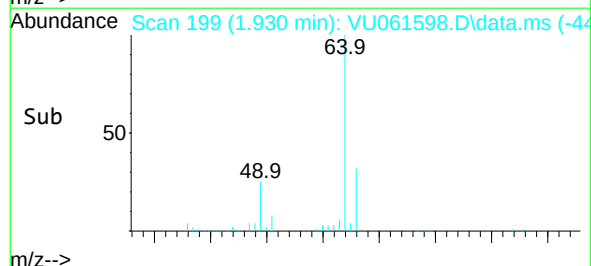
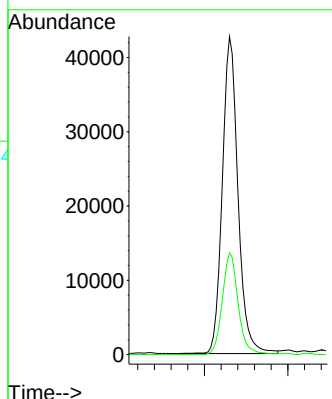
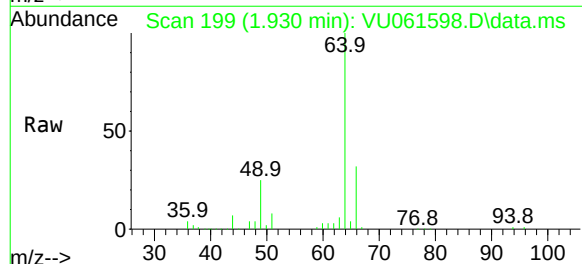
Acq: 12 Nov 2024 10:21

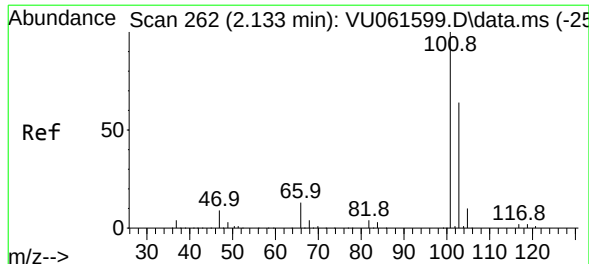
Tgt Ion: 64 Resp: 55678

Ion Ratio Lower Upper

64 100

66 32.1 26.2 39.2





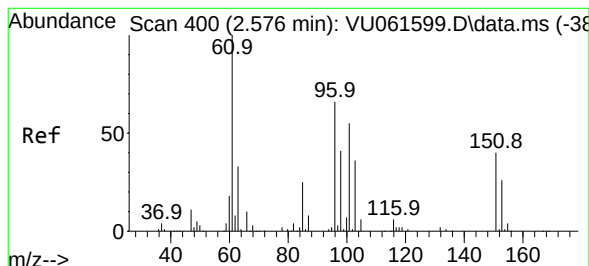
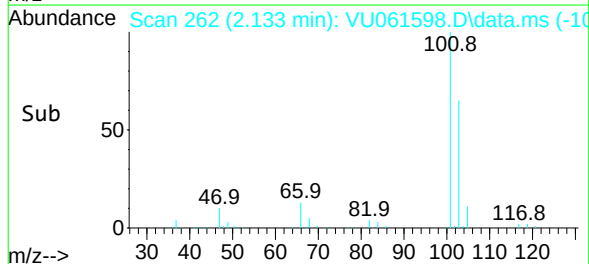
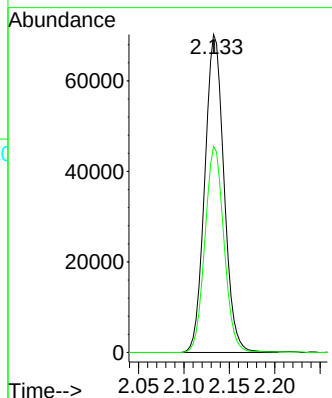
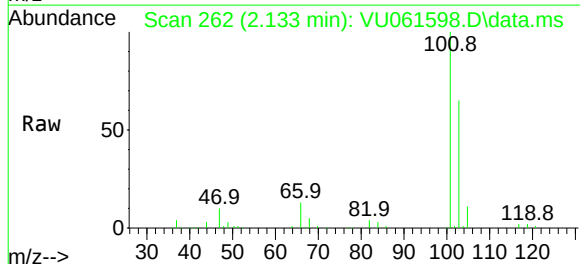
#7
Trichlorofluoromethane
Concen: 5.350 ug/l
RT: 2.133 min Scan# 262
Delta R.T. -0.000 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 103581
Ion Ratio Lower Upper
101 100
103 64.8 51.4 77.2

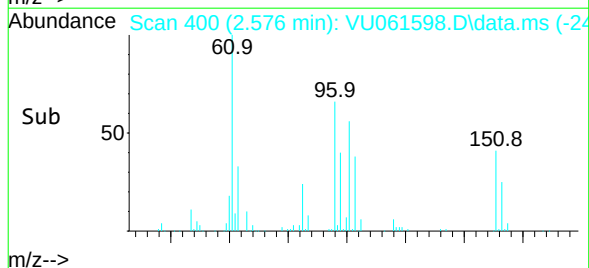
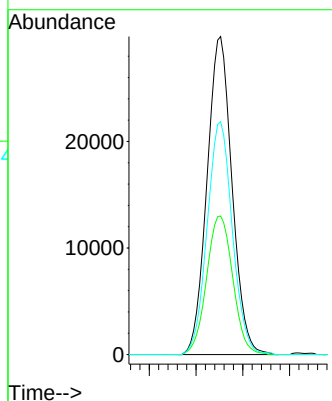
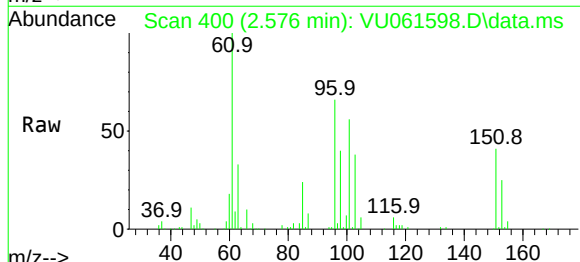
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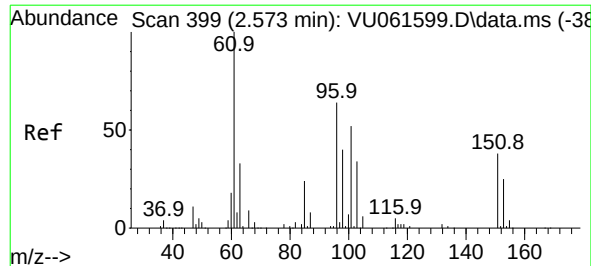
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 5.362 ug/l
RT: 2.576 min Scan# 400
Delta R.T. -0.000 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Tgt Ion:101 Resp: 55563
Ion Ratio Lower Upper
101 100
85 45.5 36.0 54.0
151 73.8 58.6 87.8





#9

1,1-Dichloroethene

Concen: 5.431 ug/l

RT: 2.573 min Scan# 399

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion:	96	Resp:	58957
Ion	Ratio	Lower	Upper
96	100		
61	153.5	0.0	467.7
98	60.0	0.0	125.4

Instrument :

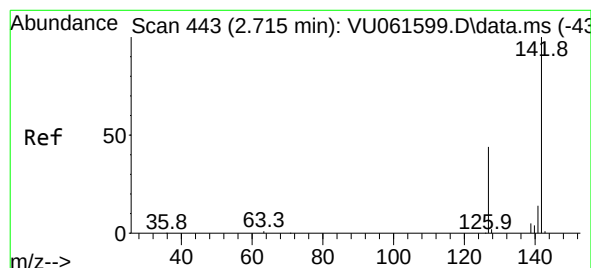
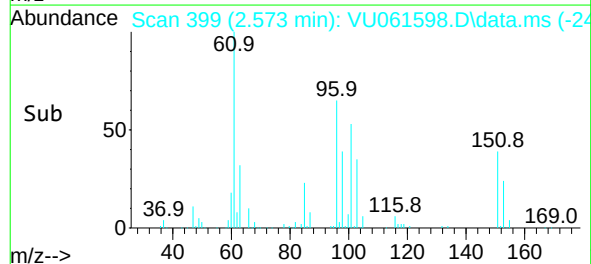
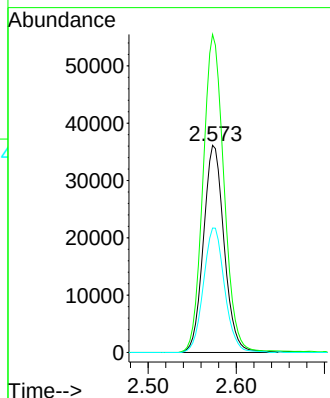
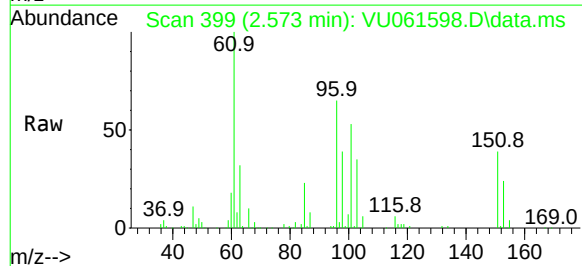
MSVOA_U

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#10

Iodomethane

Concen: 4.735 ug/l

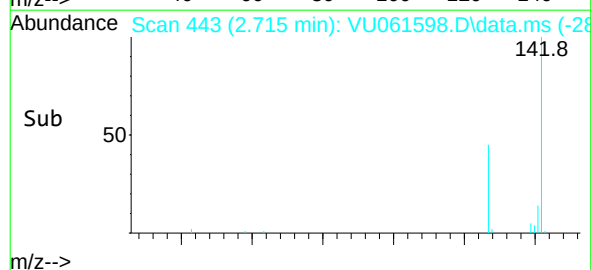
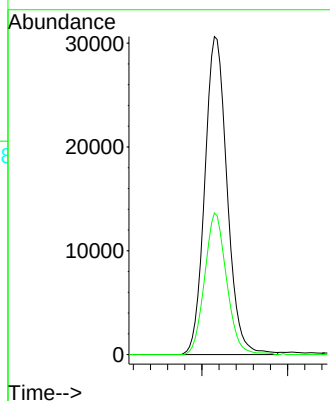
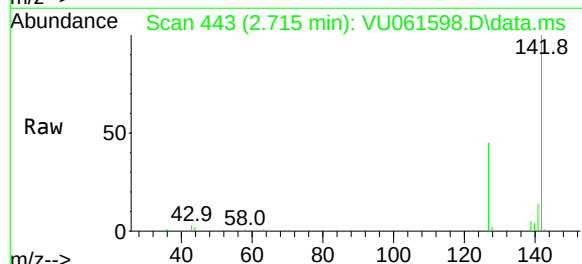
RT: 2.715 min Scan# 443

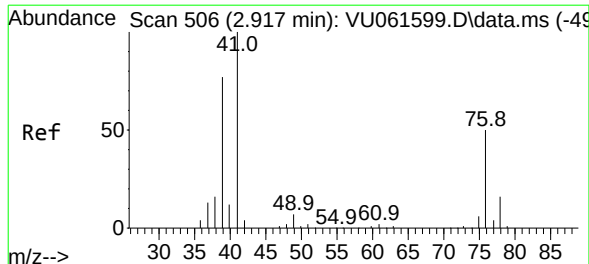
Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion:	142	Resp:	55475
Ion	Ratio	Lower	Upper
142	100		
127	43.8	34.8	52.2





#11

Allyl Chloride

Concen: 5.332 ug/l

RT: 2.917 min Scan# 506

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 66981

Ion Ratio Lower Upper

41 100

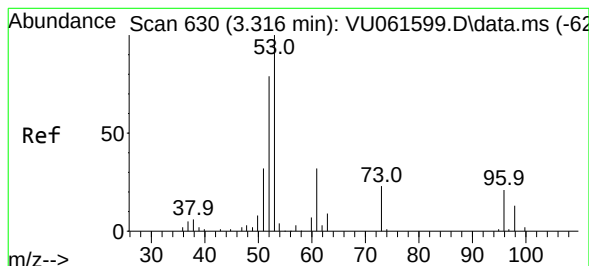
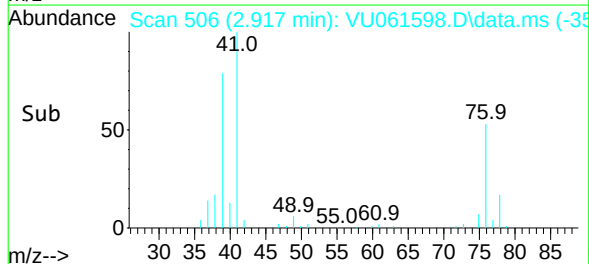
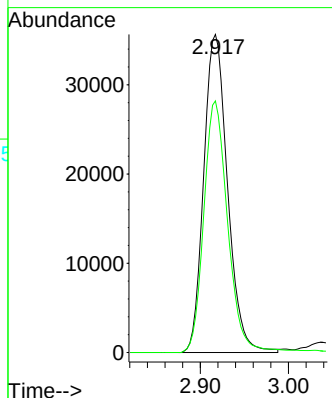
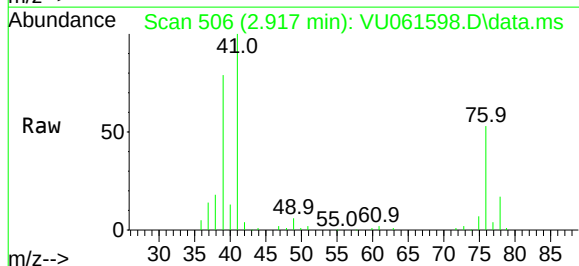
39 79.3 62.2 93.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#12

Acrylonitrile

Concen: 11.077 ug/l

RT: 3.319 min Scan# 631

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

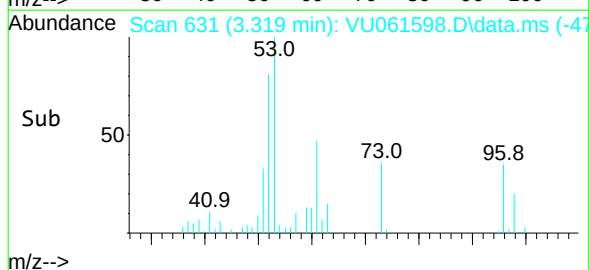
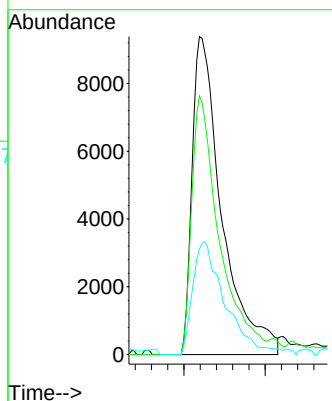
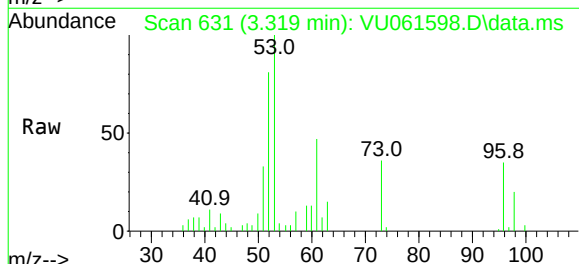
Tgt Ion: 53 Resp: 23783

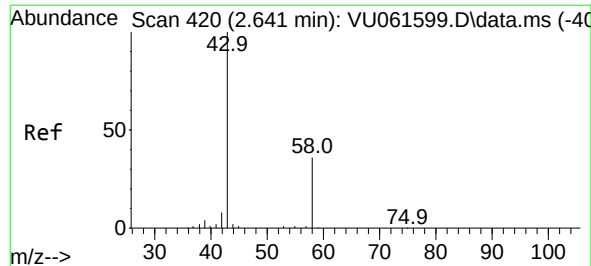
Ion Ratio Lower Upper

53 100

52 75.5 62.1 93.1

51 38.6 30.9 46.3





#13

Acetone

Concen: 25.309 ug/l

RT: 2.641 min Scan# 420

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion: 43 Resp: 75846

Ion Ratio Lower Upper

43 100

58 35.0 28.5 42.7

Instrument :

MSVOA_U

ClientSampleId :

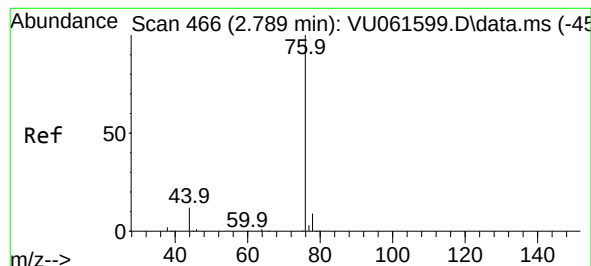
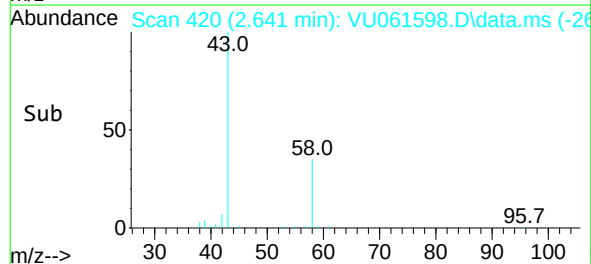
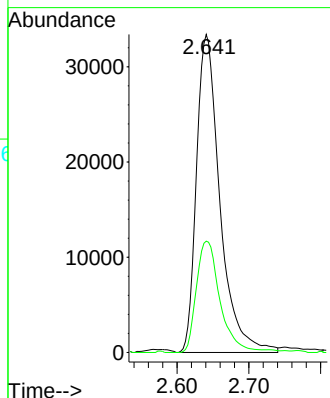
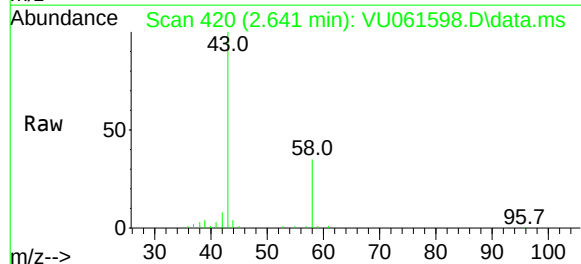
VSTDICC005

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#14

Carbon Disulfide

Concen: 5.254 ug/l

RT: 2.789 min Scan# 466

Delta R.T. -0.000 min

Lab File: VU061598.D

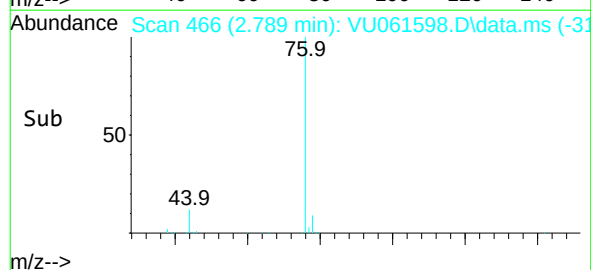
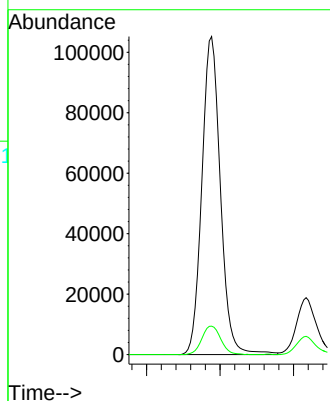
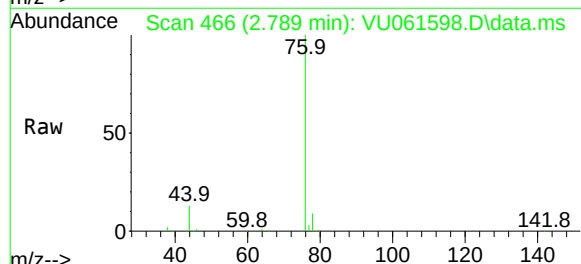
Acq: 12 Nov 2024 10:21

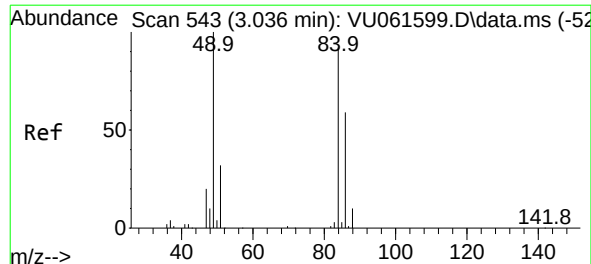
Tgt Ion: 76 Resp: 184294

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9





#15

Methylene Chloride

Concen: 5.275 ug/l

RT: 3.039 min Scan# 543

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 84 Resp: 69167

Ion Ratio Lower Upper

84 100

49 108.8 87.4 131.0

51 33.4 0.0 69.6

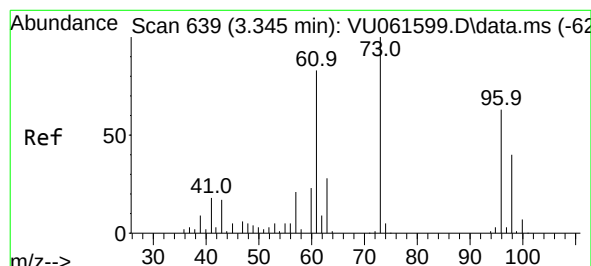
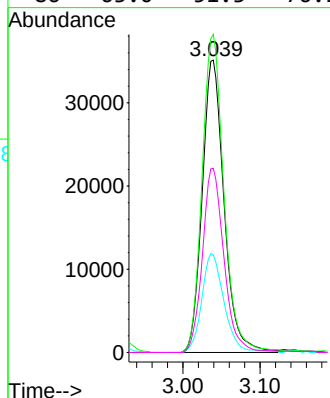
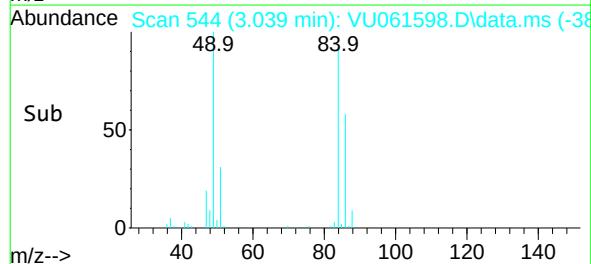
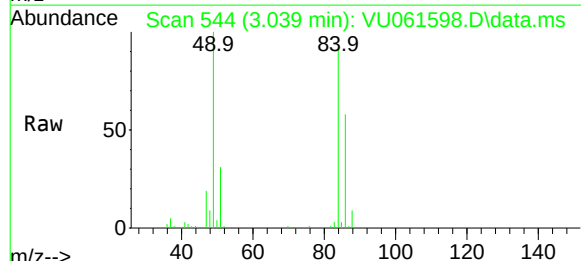
86 63.0 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#16

trans-1,2-Dichloroethene

Concen: 5.290 ug/l

RT: 3.345 min Scan# 639

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

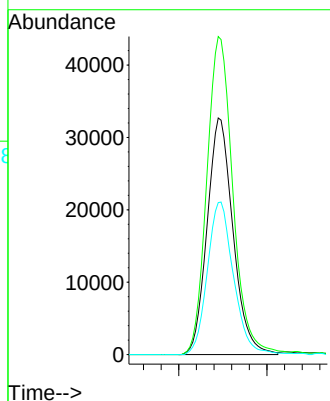
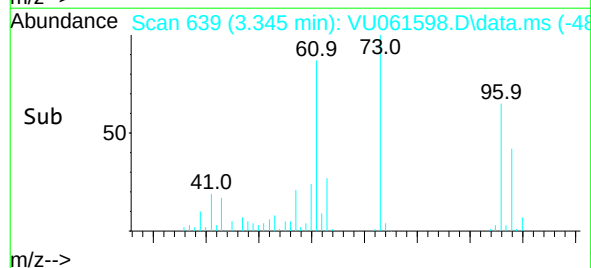
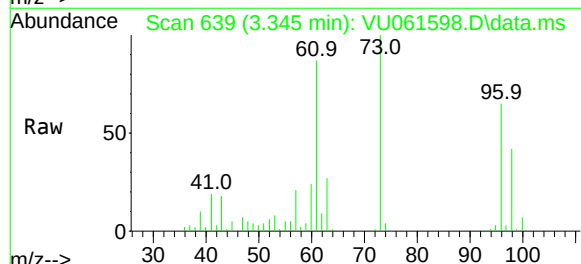
Tgt Ion: 96 Resp: 66708

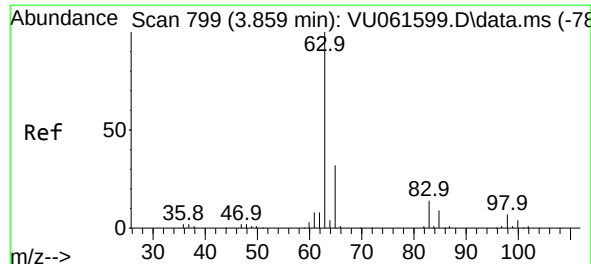
Ion Ratio Lower Upper

96 100

61 134.4 105.0 157.4

98 64.2 50.4 75.6





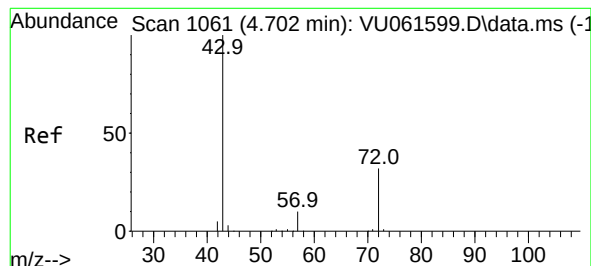
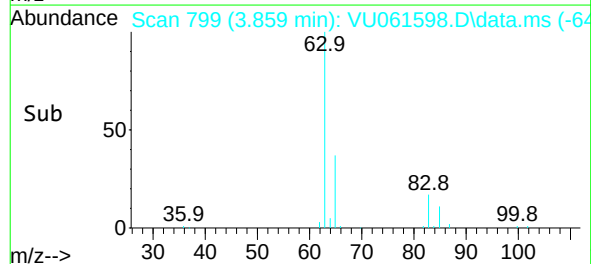
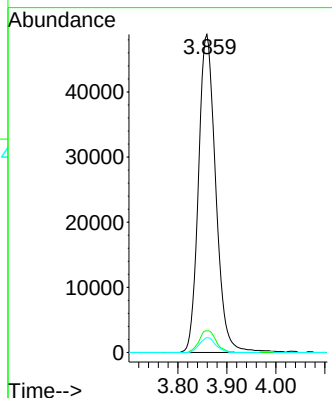
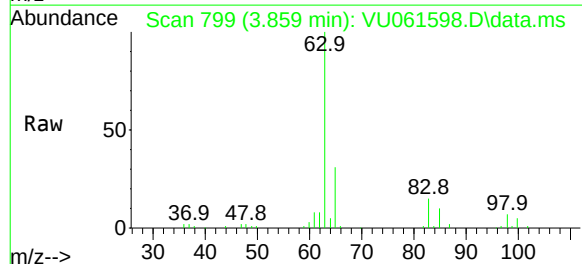
#17
1,1-Dichloroethane
Concen: 5.317 ug/l
RT: 3.859 min Scan# 799
Delta R.T. -0.000 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 119581
Ion Ratio Lower Upper
63 100
98 6.8 3.4 10.2
100 4.7 2.2 6.6

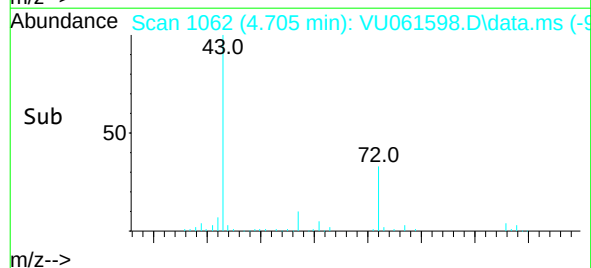
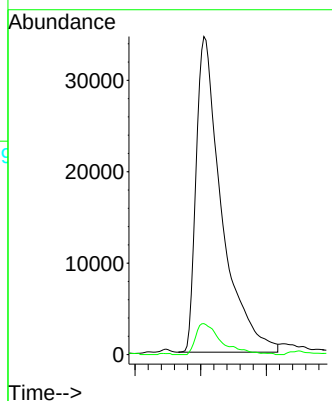
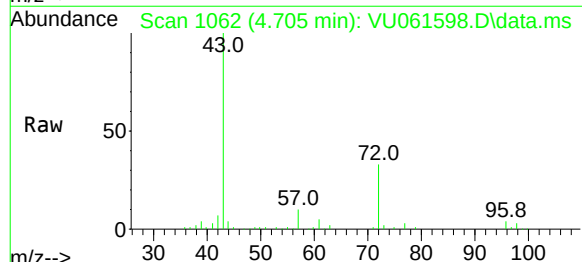
Manual Integrations
APPROVED

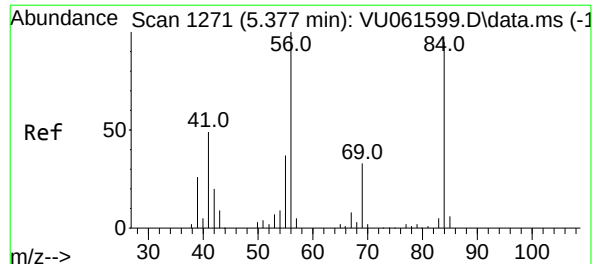
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#18
2-Butanone
Concen: 26.796 ug/l
RT: 4.705 min Scan# 1062
Delta R.T. 0.003 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Tgt Ion: 43 Resp: 93127
Ion Ratio Lower Upper
43 100
57 9.8 0.0 20.0





#19

Cyclohexane

Concen: 5.524 ug/l m

RT: 5.380 min Scan# 1271

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 100801

Ion Ratio Lower Upper

56 100

69 31.3 26.3 39.5

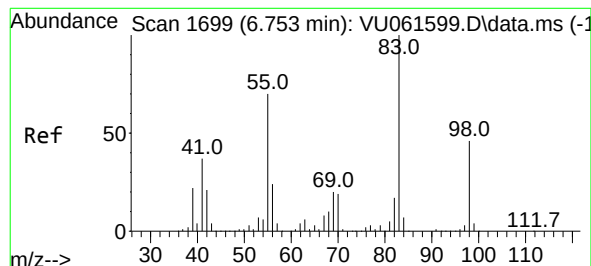
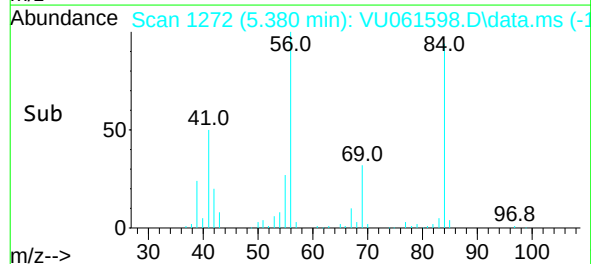
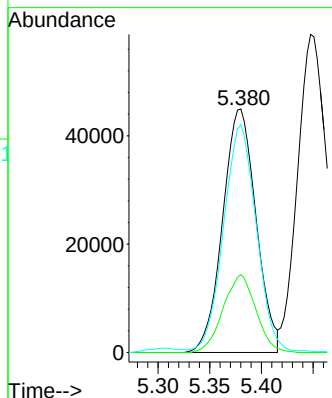
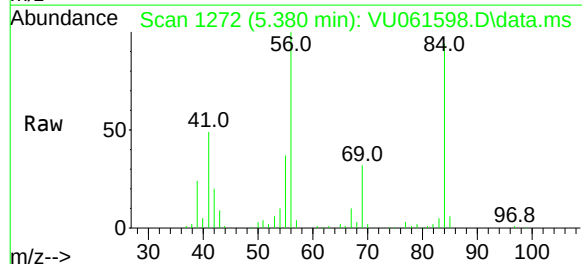
84 89.8 73.4 110.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#20

Methylcyclohexane

Concen: 5.543 ug/l

RT: 6.753 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

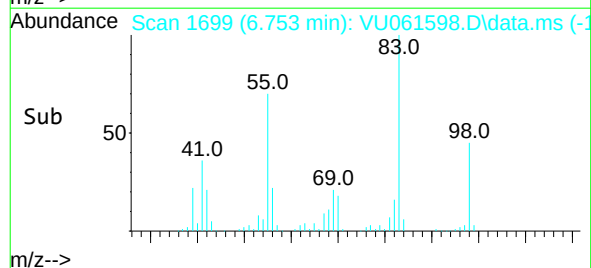
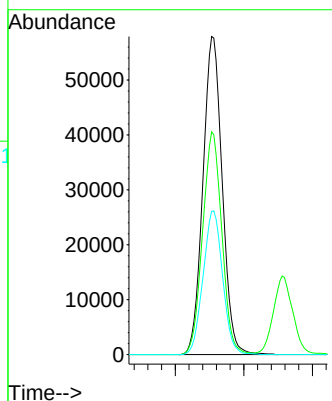
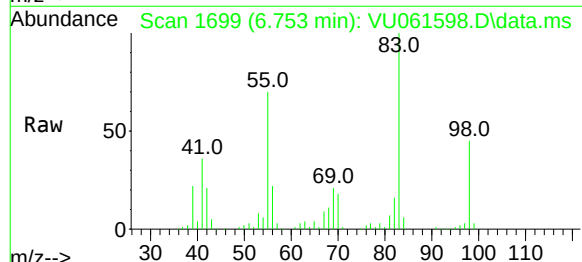
Tgt Ion: 83 Resp: 113416

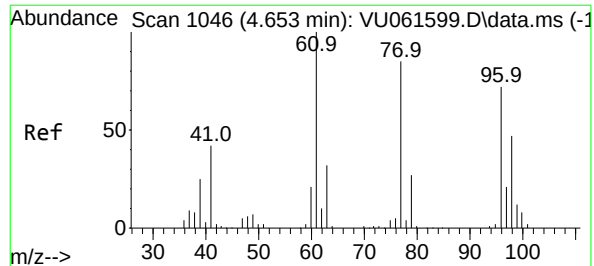
Ion Ratio Lower Upper

83 100

55 69.0 55.5 83.3

98 45.7 36.8 55.2





#21

2,2-Dichloropropane

Concen: 5.290 ug/l

RT: 4.653 min Scan# 1046

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 77 Resp: 95685

Ion Ratio Lower Upper

77 100

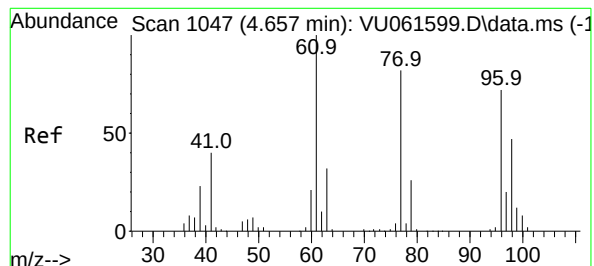
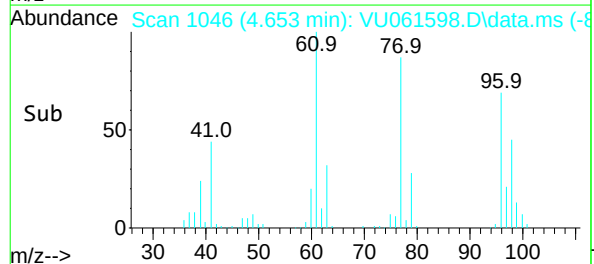
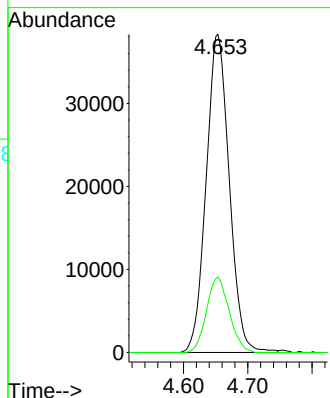
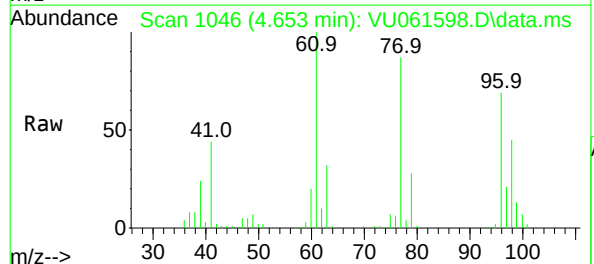
97 23.3 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#22

cis-1,2-Dichloroethene

Concen: 5.364 ug/l

RT: 4.657 min Scan# 1047

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

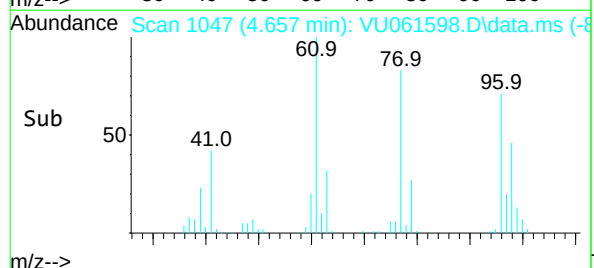
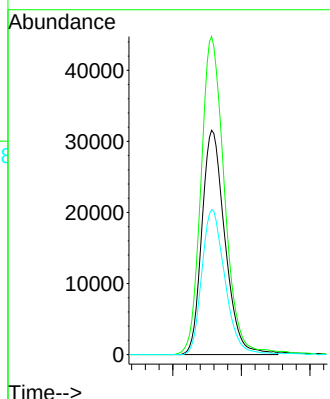
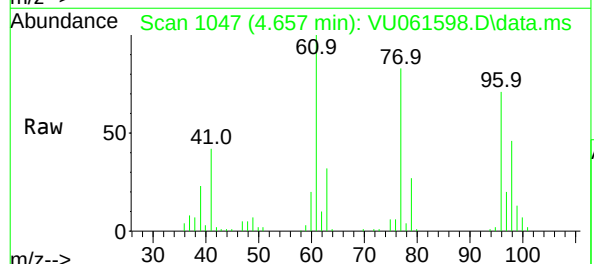
Tgt Ion: 96 Resp: 73795

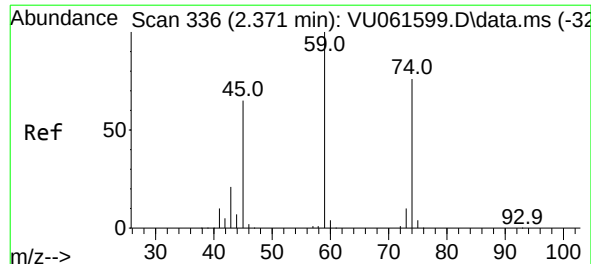
Ion Ratio Lower Upper

96 100

61 143.9 0.0 349.5

98 64.7 32.5 97.5





#23

Diethyl Ether

Concen: 5.260 ug/l

RT: 2.371 min Scan# 336

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 42565

Ion Ratio Lower Upper

59 100

45 66.1 53.8 80.6

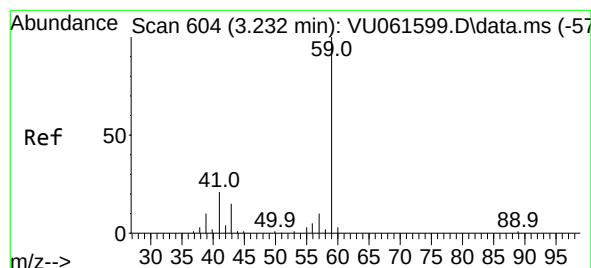
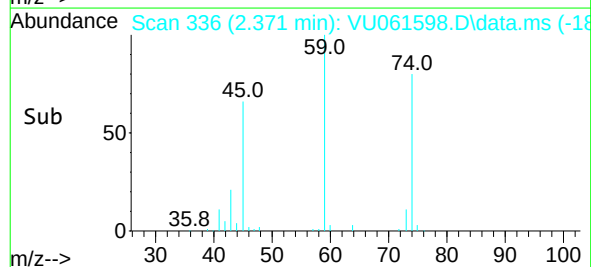
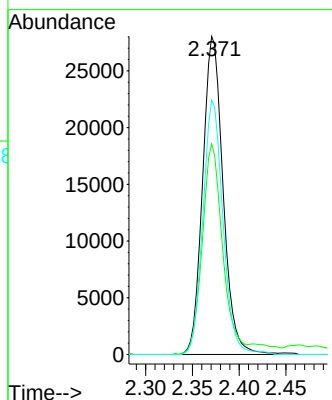
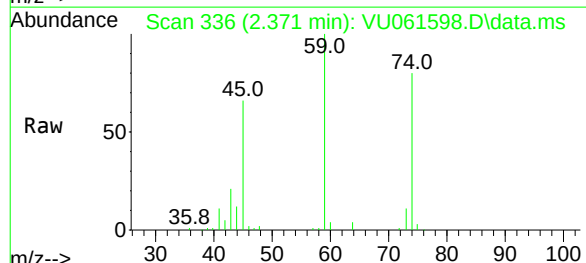
74 78.9 62.1 93.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#24

tert-Butyl Alcohol

Concen: 55.115 ug/l m

RT: 3.232 min Scan# 604

Delta R.T. -0.000 min

Lab File: VU061598.D

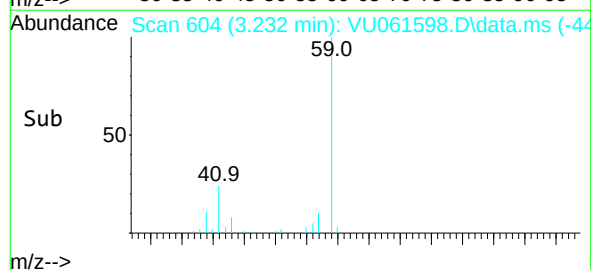
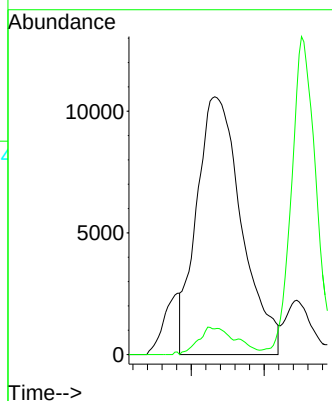
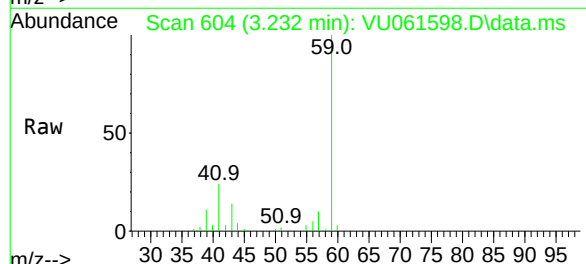
Acq: 12 Nov 2024 10:21

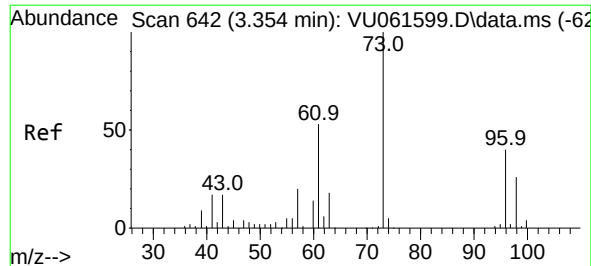
Tgt Ion: 59 Resp: 45475

Ion Ratio Lower Upper

59 100

57 6.9 7.9 11.9#





#25

Methyl tert-Butyl Ether

Concen: 5.359 ug/l

RT: 3.354 min Scan# 64

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 142621

Ion Ratio Lower Upper

73 100

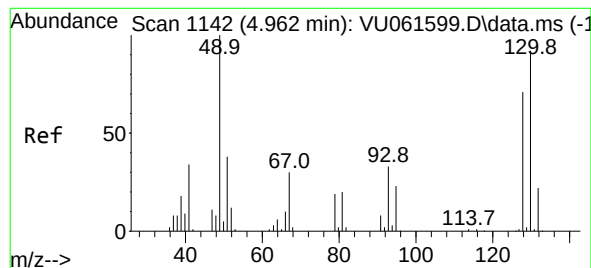
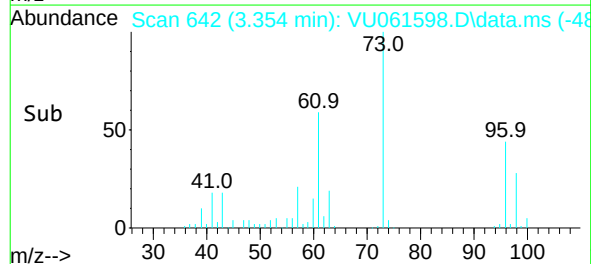
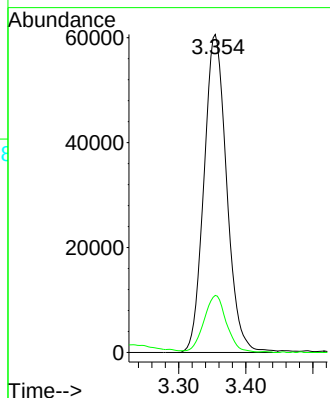
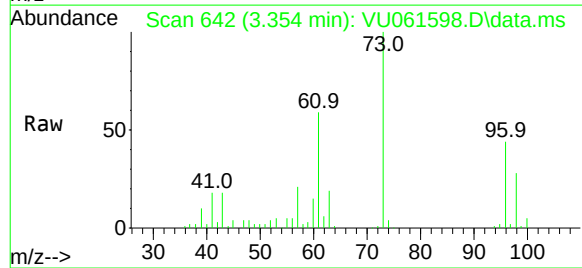
43 17.4 14.2 21.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#26

Bromochloromethane

Concen: 5.426 ug/l

RT: 4.965 min Scan# 1143

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

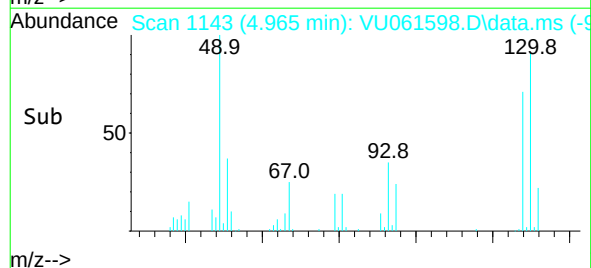
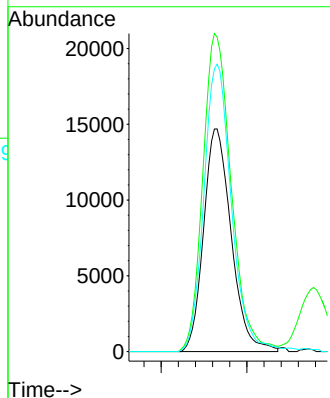
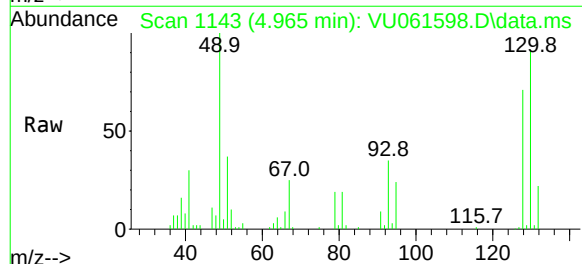
Tgt Ion:128 Resp: 32890

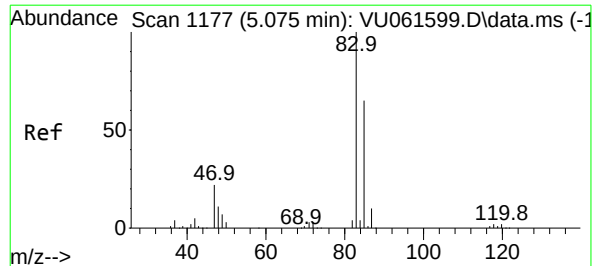
Ion Ratio Lower Upper

128 100

49 146.5 0.0 288.8

130 129.0 103.6 155.4





#27

Chloroform

Concen: 5.305 ug/l

RT: 5.078 min Scan# 1177

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 126552

Ion Ratio Lower Upper

83 100

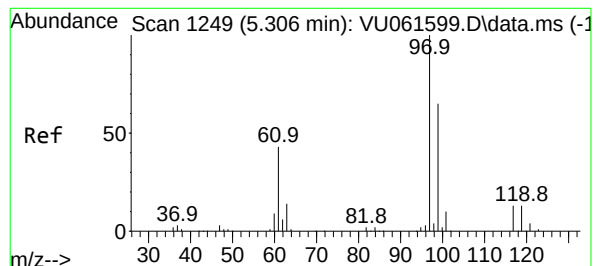
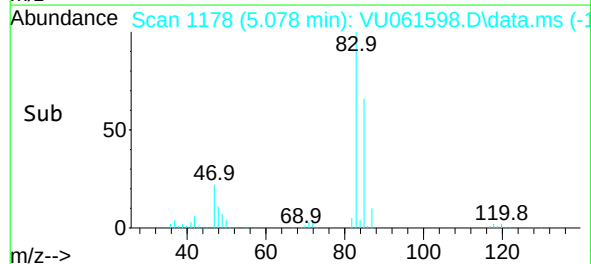
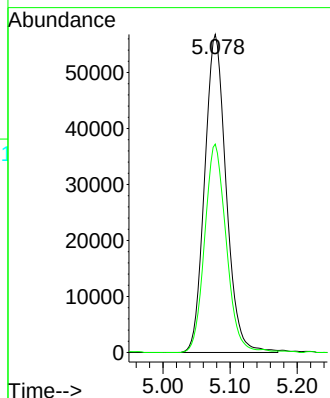
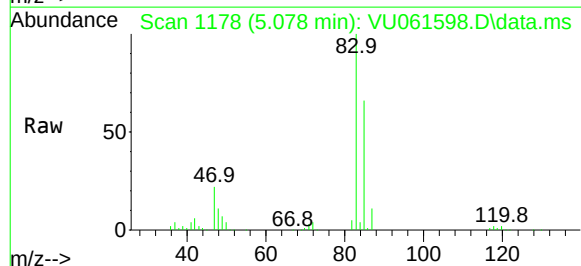
85 65.5 0.0 130.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#28

1,1,1-Trichloroethane

Concen: 5.430 ug/l

RT: 5.306 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

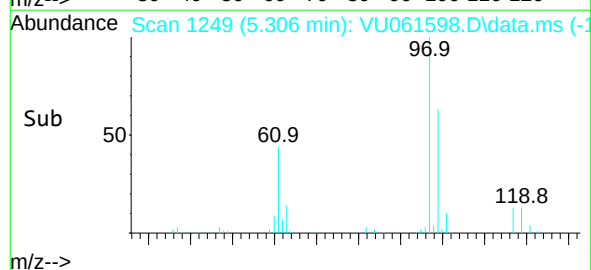
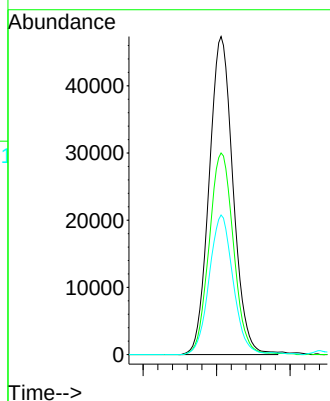
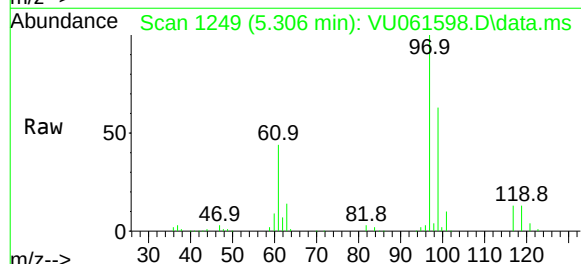
Tgt Ion: 97 Resp: 107023

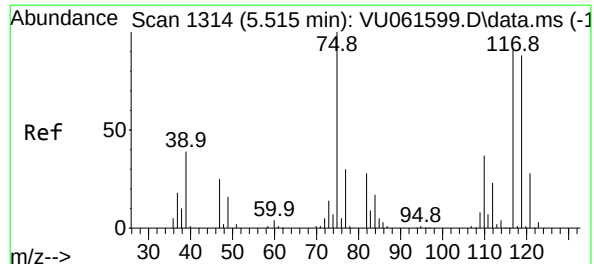
Ion Ratio Lower Upper

97 100

99 64.7 32.1 96.5

61 43.8 21.7 65.1





#29

1,1-Dichloropropene

Concen: 5.326 ug/l

RT: 5.518 min Scan# 1315

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion: 75 Resp: 94300

Ion Ratio Lower Upper

75 100

110 36.4 17.9 53.8

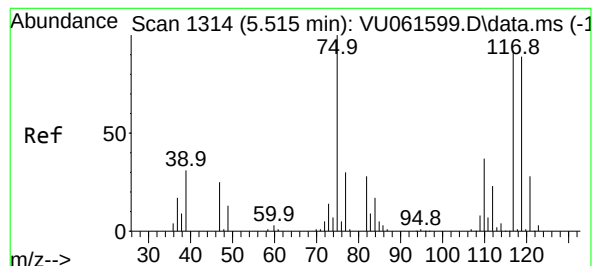
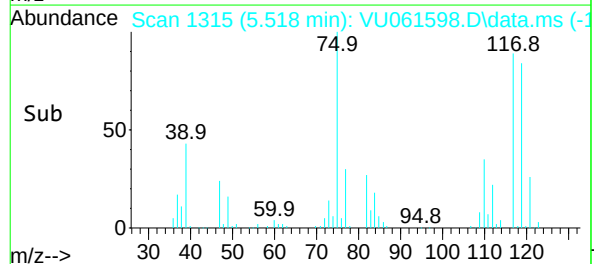
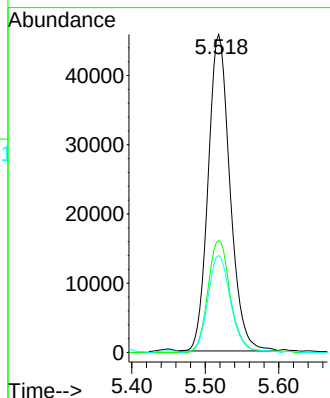
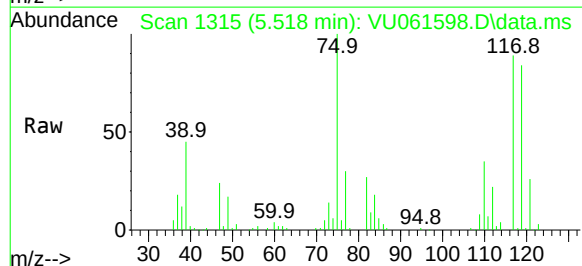
77 32.4 24.8 37.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 5.478 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

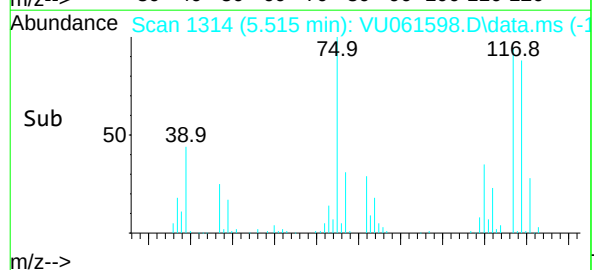
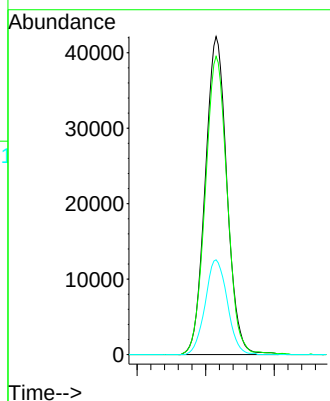
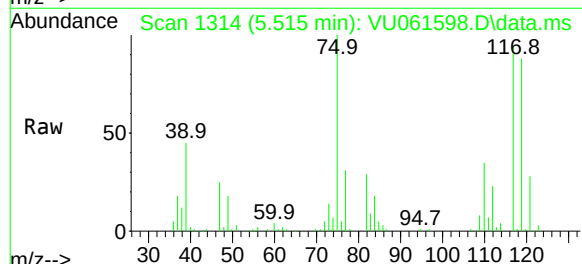
Tgt Ion:117 Resp: 92534

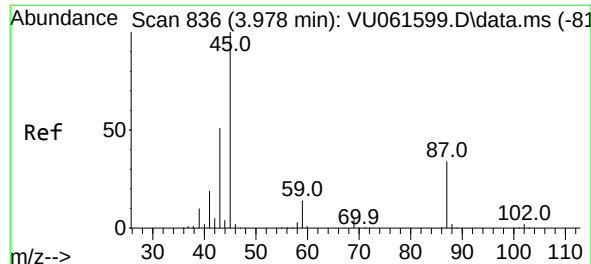
Ion Ratio Lower Upper

117 100

119 93.8 77.4 116.0

121 29.8 24.5 36.7





#31

Isopropyl Ether

Concen: 5.296 ug/l

RT: 3.981 min Scan# 83

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 45 Resp: 158504

Ion Ratio Lower Upper

45 100

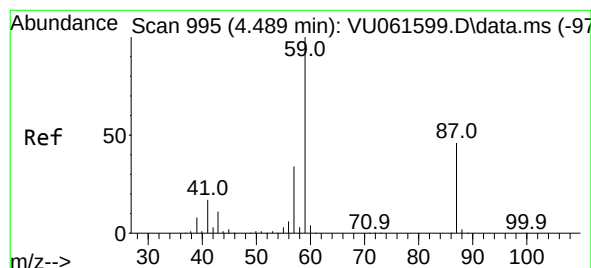
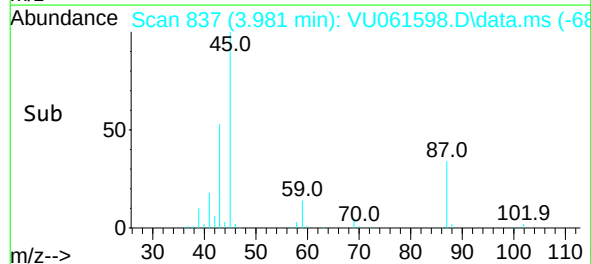
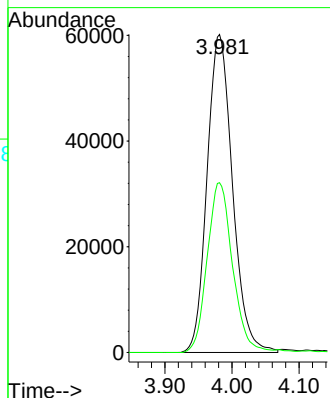
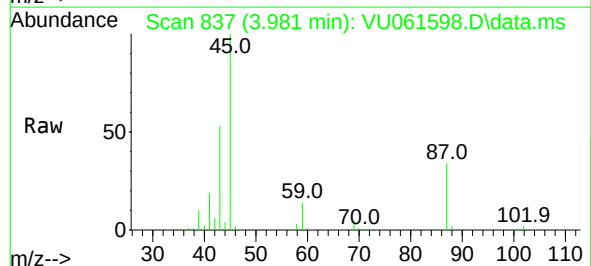
43 53.2 25.8 77.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#32

Ethyl-t-butyl ether

Concen: 5.361 ug/l

RT: 4.489 min Scan# 995

Delta R.T. -0.000 min

Lab File: VU061598.D

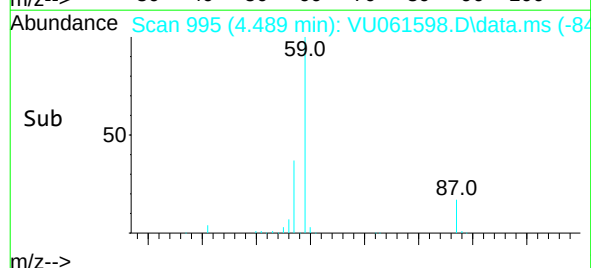
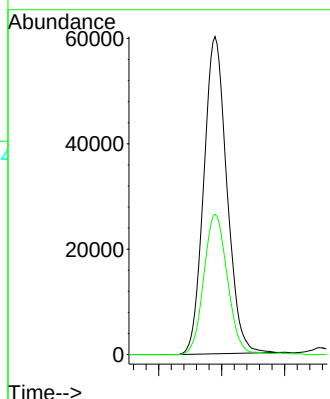
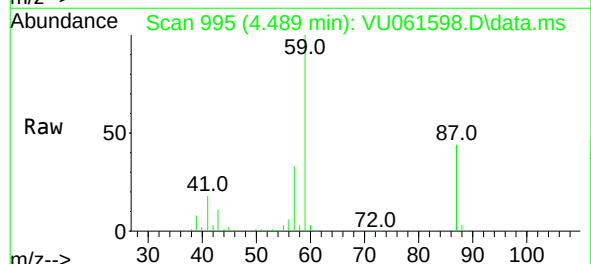
Acq: 12 Nov 2024 10:21

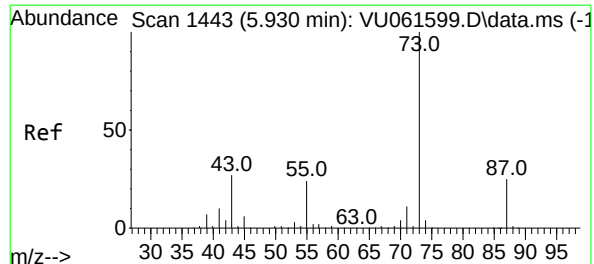
Tgt Ion: 59 Resp: 153379

Ion Ratio Lower Upper

59 100

87 44.7 35.5 53.3





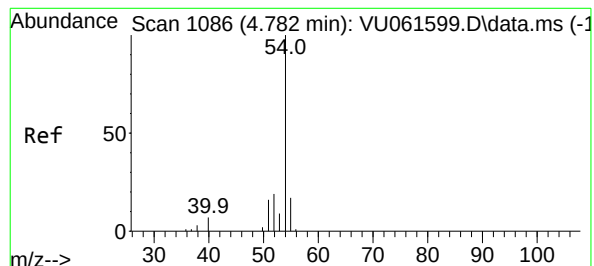
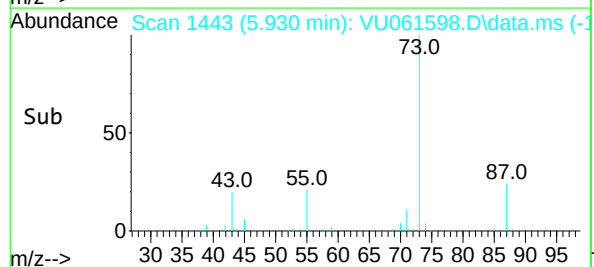
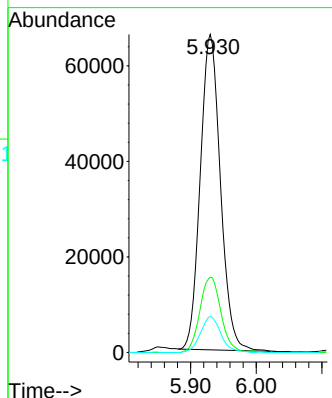
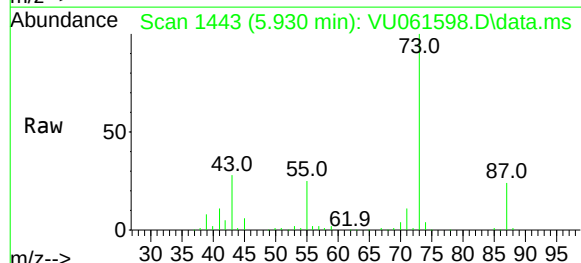
Tert-Amyl methyl ether
Concen: 5.444 ug/l
RT: 5.930 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tgt Ion: 73 Resp: 140769
Ion Ratio Lower Upper
73 100
87 24.4 19.8 29.6
71 11.5 9.0 13.4

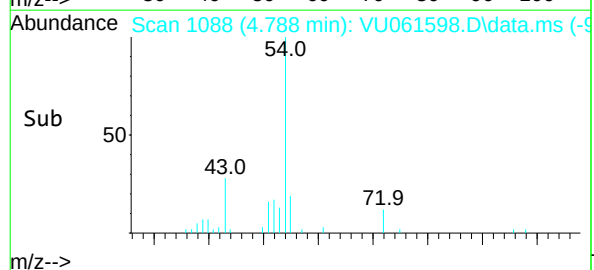
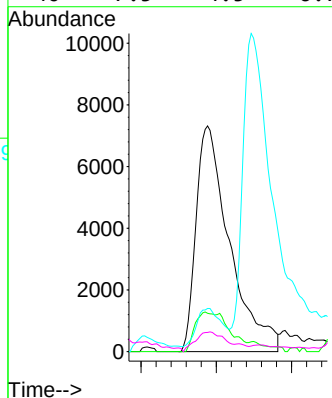
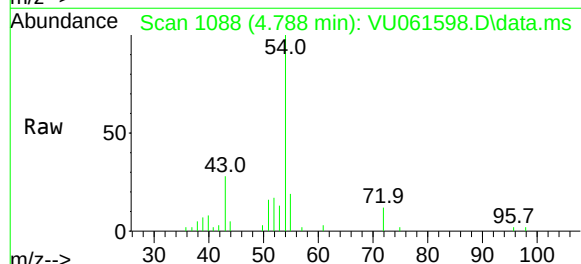
Manual Integrations
APPROVED

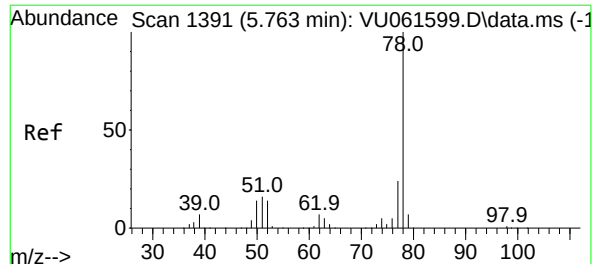
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



Propionitrile
Concen: 27.855 ug/l
RT: 4.788 min Scan# 1088
Delta R.T. 0.006 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Tgt Ion: 54 Resp: 22623
Ion Ratio Lower Upper
54 100
52 17.7 15.8 23.8
55 12.5 10.7 16.1
40 7.5 4.5 6.7#





#35

Benzene

Concen: 5.376 ug/l

RT: 5.766 min Scan# 1391

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 78 Resp: 283736

Ion Ratio Lower Upper

78 100

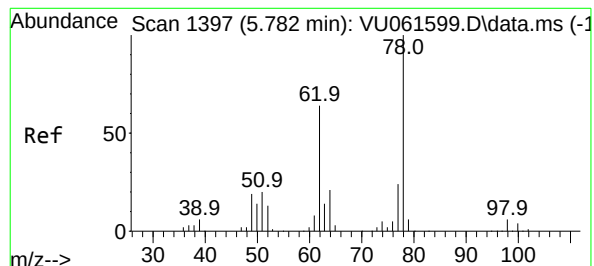
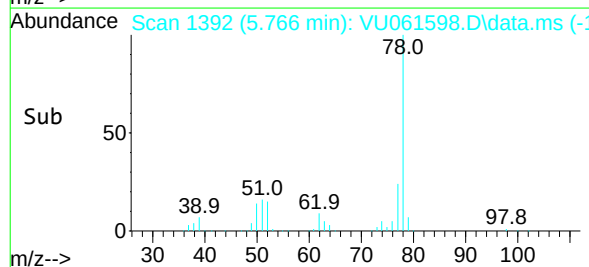
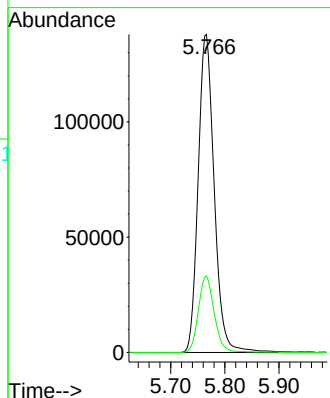
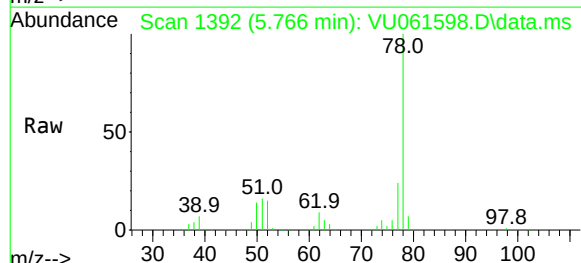
77 24.0 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#36

1,2-Dichloroethane

Concen: 5.389 ug/l

RT: 5.785 min Scan# 1398

Delta R.T. 0.003 min

Lab File: VU061598.D

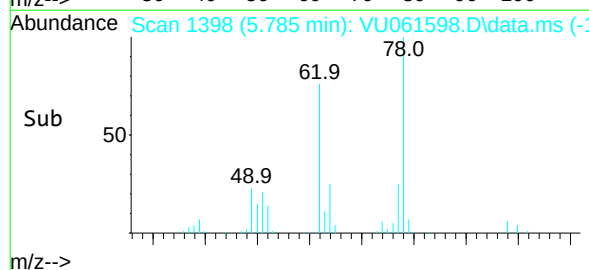
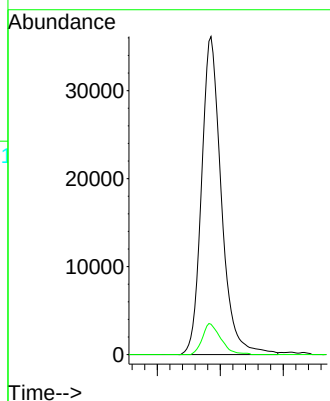
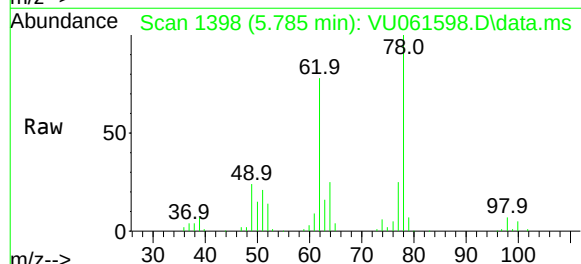
Acq: 12 Nov 2024 10:21

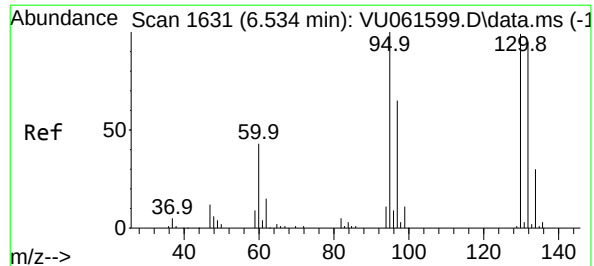
Tgt Ion: 62 Resp: 79033

Ion Ratio Lower Upper

62 100

98 9.1 7.4 11.0





#37

Trichloroethene

Concen: 5.409 ug/l

RT: 6.534 min Scan# 16

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion:130 Resp: 75591

Ion Ratio Lower Upper

130 100

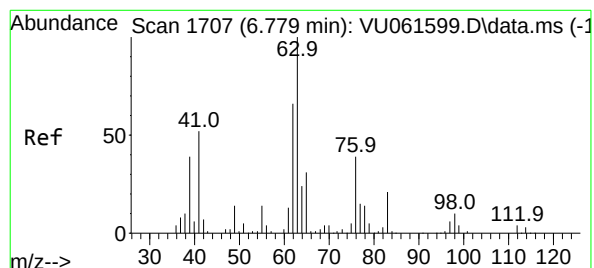
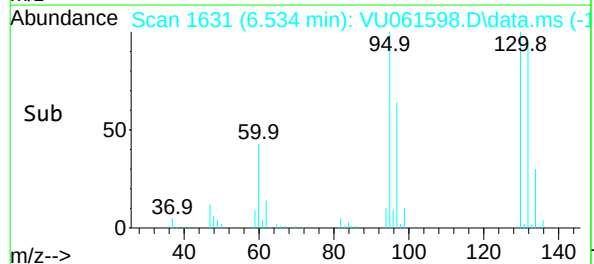
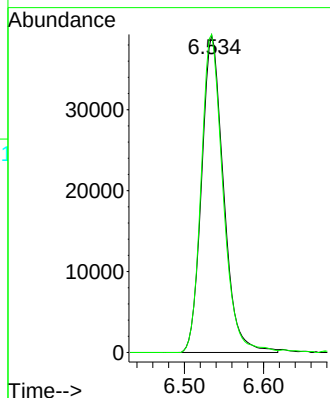
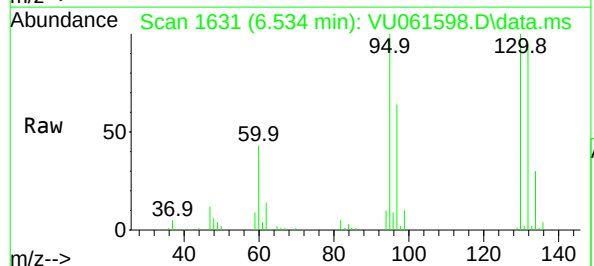
95 100.3 80.6 120.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#38

1,2-Dichloropropane

Concen: 5.337 ug/l

RT: 6.782 min Scan# 1708

Delta R.T. 0.003 min

Lab File: VU061598.D

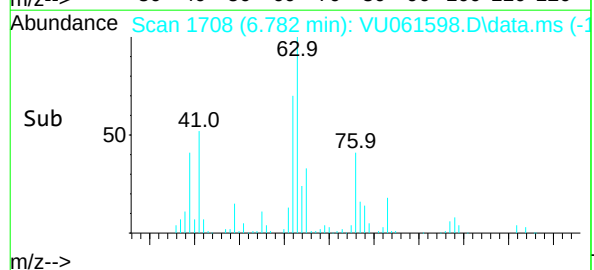
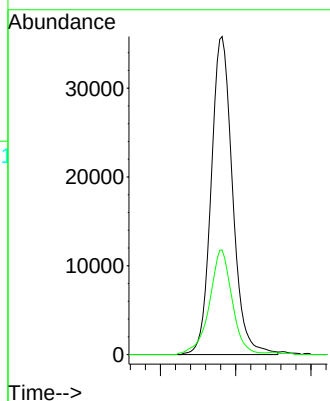
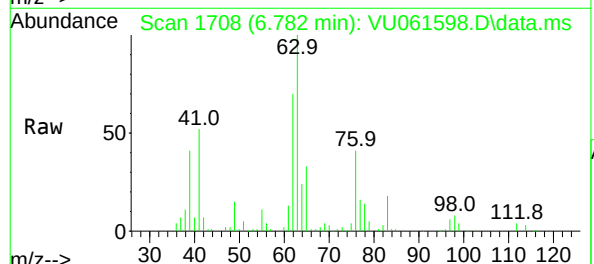
Acq: 12 Nov 2024 10:21

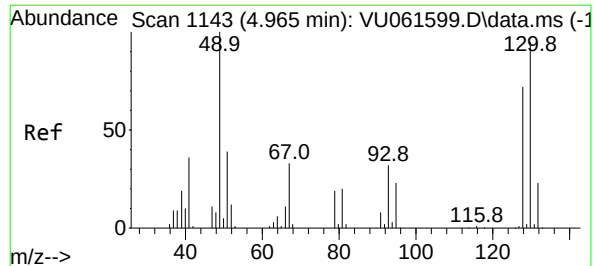
Tgt Ion: 63 Resp: 70720

Ion Ratio Lower Upper

63 100

65 32.5 25.3 37.9





#39

Methacrylonitrile

Concen: 5.602 ug/l

RT: 4.968 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 16285

Ion Ratio Lower Upper

41 100

67 97.0 77.6 116.4

39 57.3 43.9 65.9

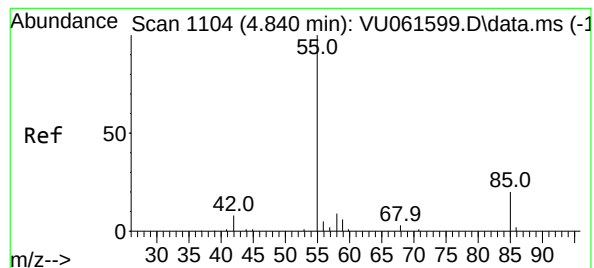
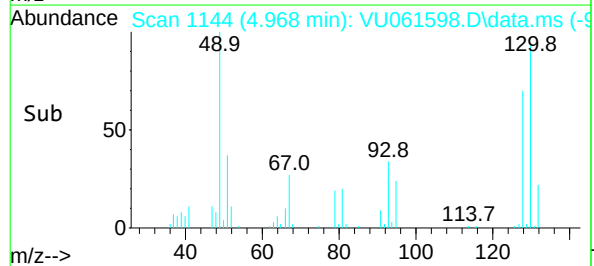
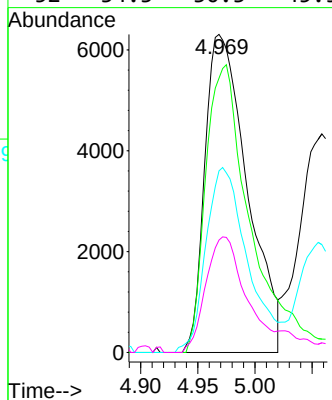
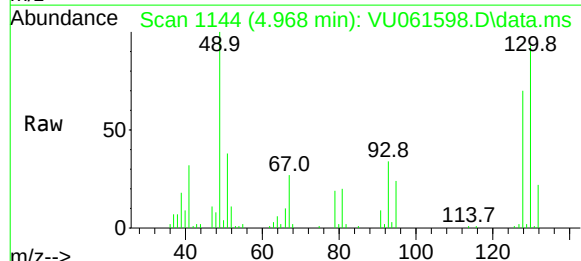
52 34.3 30.3 45.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#40

Methyl acrylate

Concen: 4.914 ug/l

RT: 4.846 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion: 55 Resp: 25857

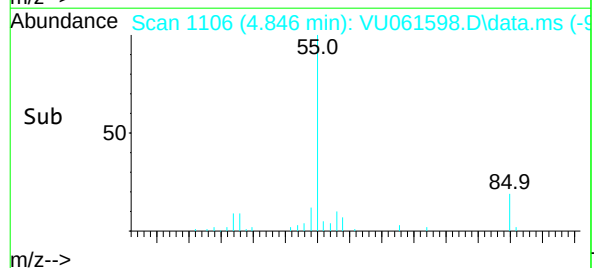
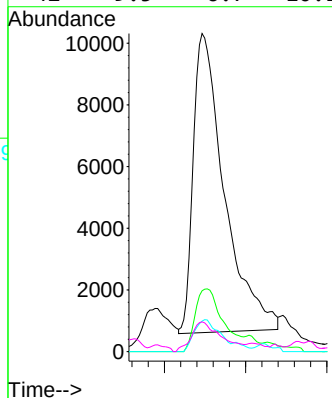
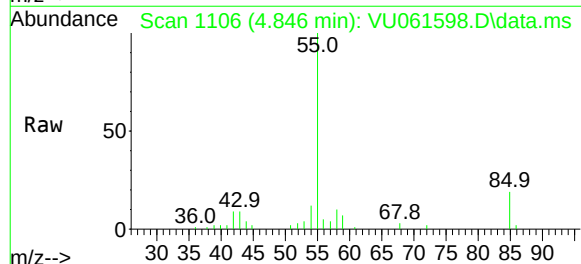
Ion Ratio Lower Upper

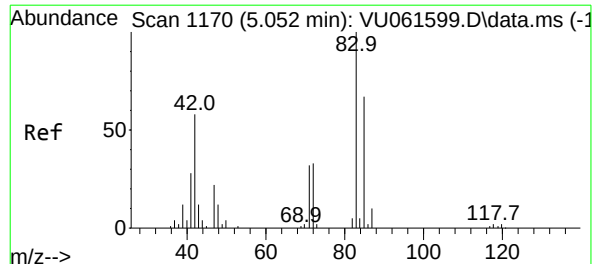
55 100

85 18.8 16.5 24.7

58 8.5 7.6 11.4

42 9.5 6.7 10.1





#41

Tetrahydrofuran

Concen: 11.379 ug/l

RT: 5.055 min Scan# 1170

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion: 42 Resp: 18682

Ion Ratio Lower Upper

42 100

72 54.9 49.1 73.7

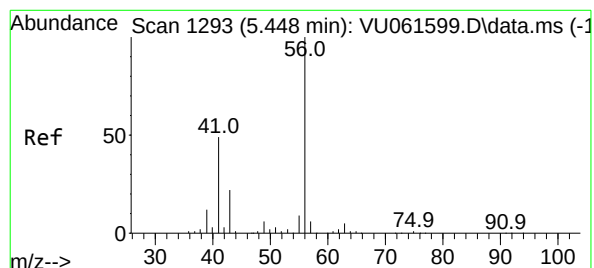
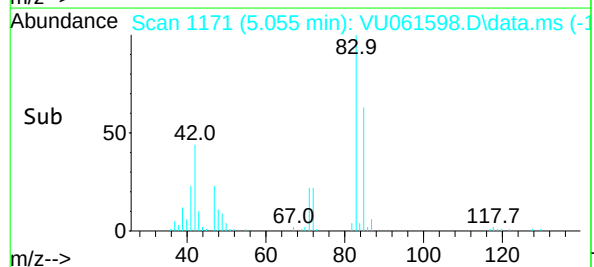
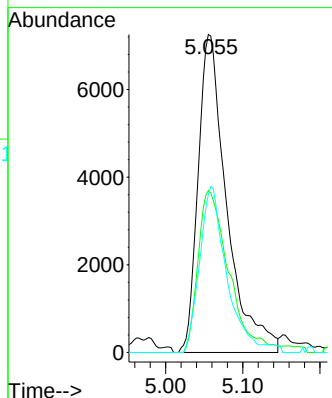
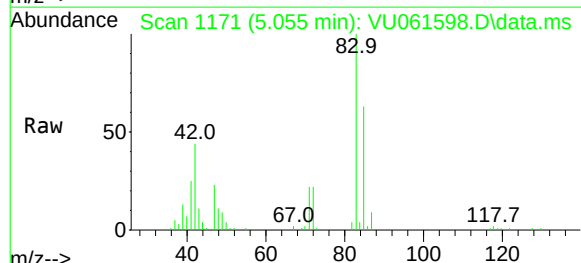
71 48.6 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#42

1-Chlorobutane

Concen: 5.505 ug/l

RT: 5.448 min Scan# 1293

Delta R.T. -0.000 min

Lab File: VU061598.D

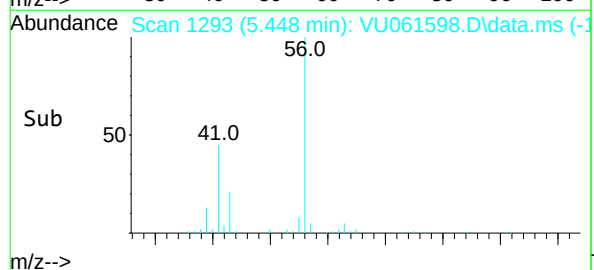
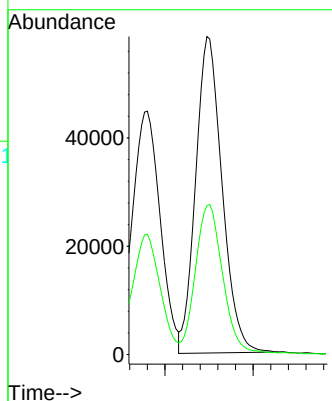
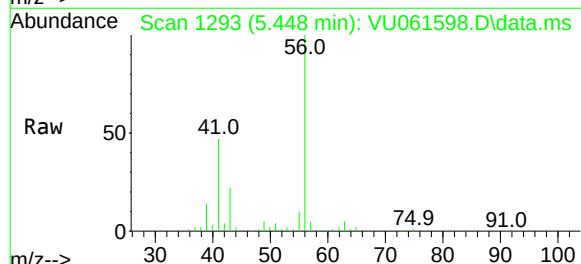
Acq: 12 Nov 2024 10:21

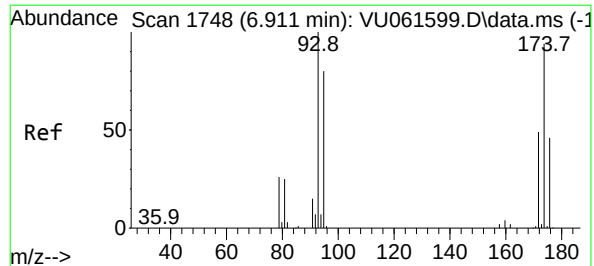
Tgt Ion: 56 Resp: 121646

Ion Ratio Lower Upper

56 100

41 48.3 23.4 70.2





#43

Dibromomethane

Concen: 5.335 ug/l

RT: 6.911 min Scan# 1748

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion: 93 Resp: 37441

Ion Ratio Lower Upper

93 100

95 84.9 65.2 97.8

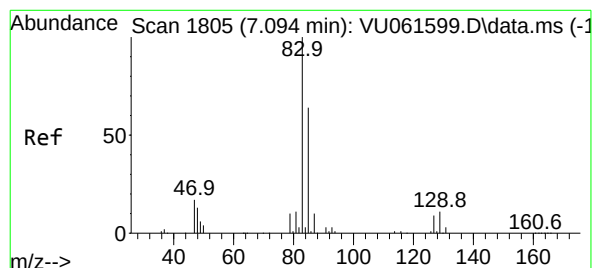
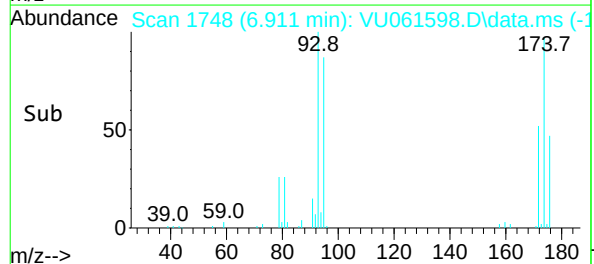
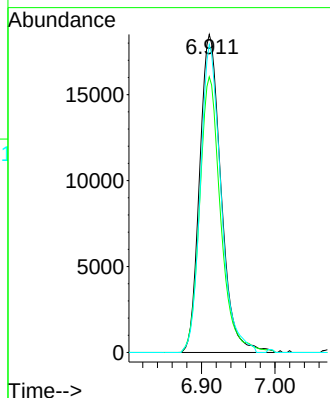
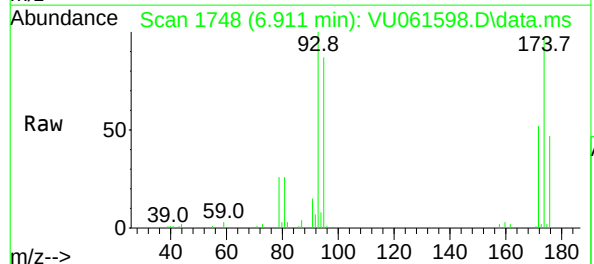
174 93.2 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

Concen: 5.403 ug/l

RT: 7.097 min Scan# 1806

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

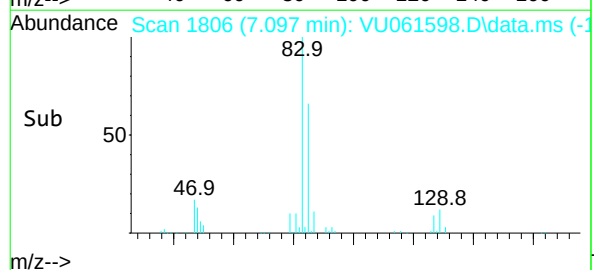
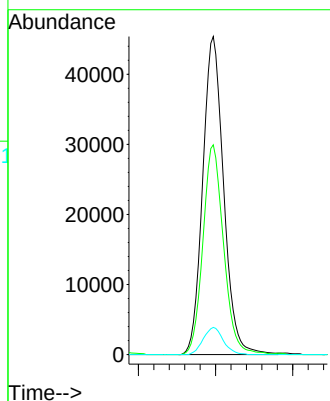
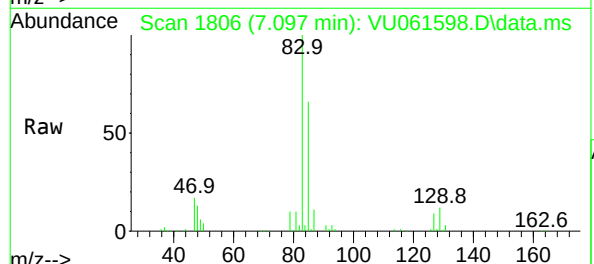
Tgt Ion: 83 Resp: 85630

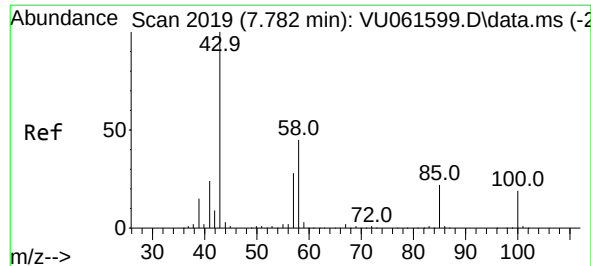
Ion Ratio Lower Upper

83 100

85 65.9 51.4 77.0

127 8.5 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 26.947 ug/l

RT: 7.782 min Scan# 2019

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 175902

Ion Ratio Lower Upper

43 100

58 44.4 22.3 66.8

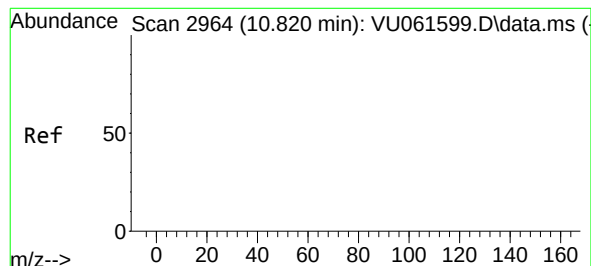
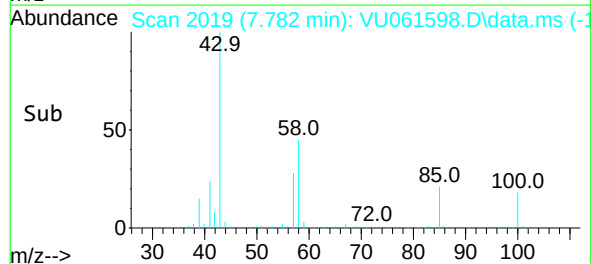
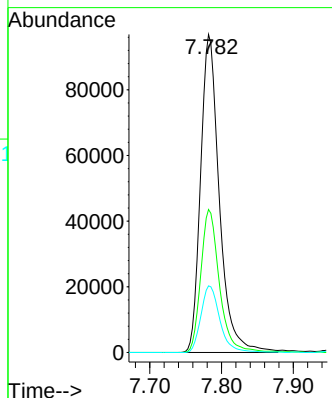
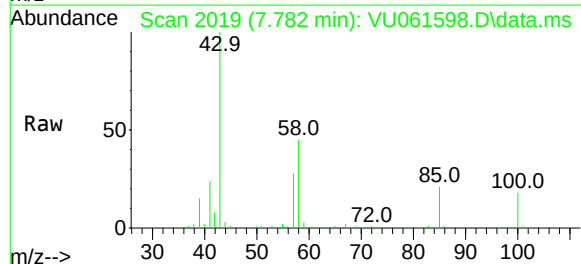
85 21.2 17.2 25.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 10.951 ug/l m

RT: 10.817 min Scan# 2963

Delta R.T. -0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion: 75 Resp: 39525

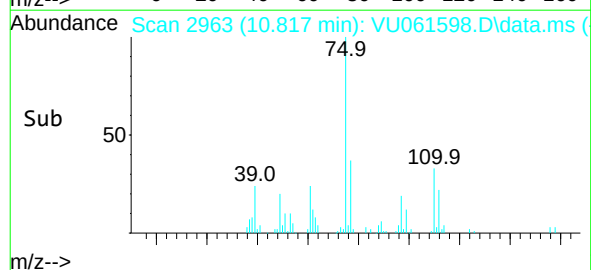
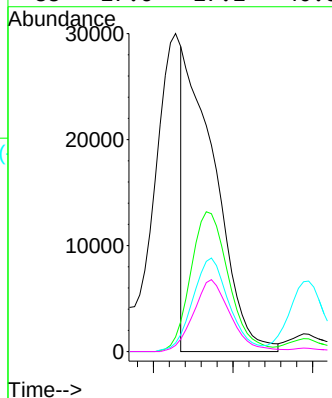
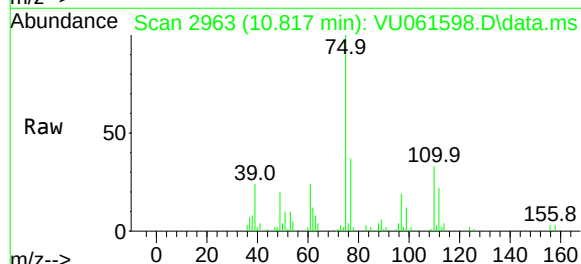
Ion Ratio Lower Upper

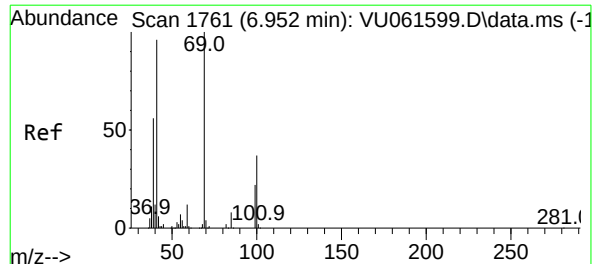
75 100

53 55.4 50.7 76.1

89 35.5 35.2 52.8

88 27.6 27.2 40.8





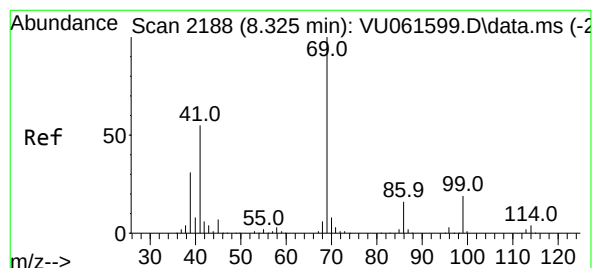
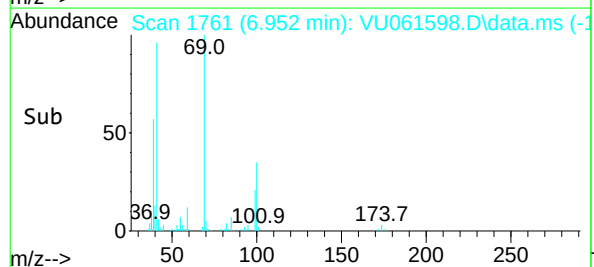
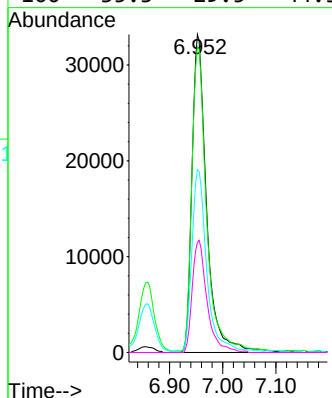
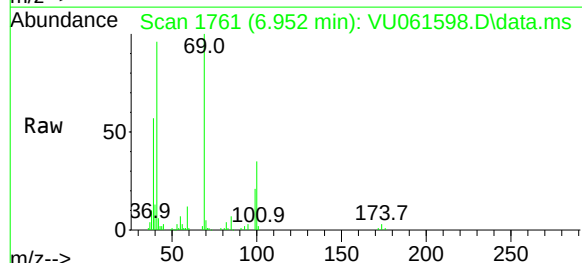
#47
Methyl methacrylate
Concen: 11.404 ug/l
RT: 6.952 min Scan# 1761
Delta R.T. -0.000 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
69	100		
41	96.1	0.0	193.6
39	57.5	46.6	70.0
100	35.3	29.5	44.3

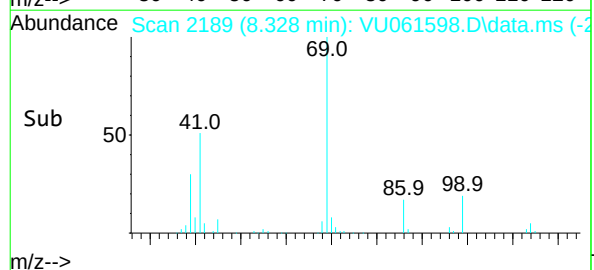
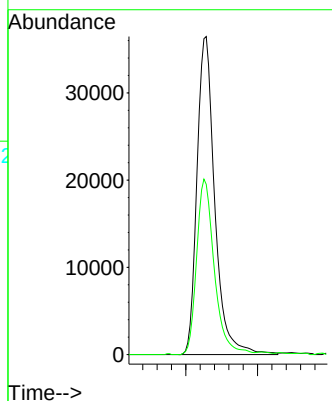
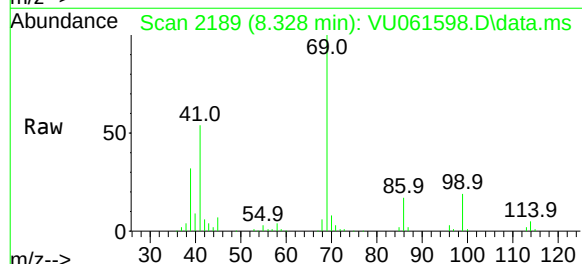
Manual Integrations
APPROVED

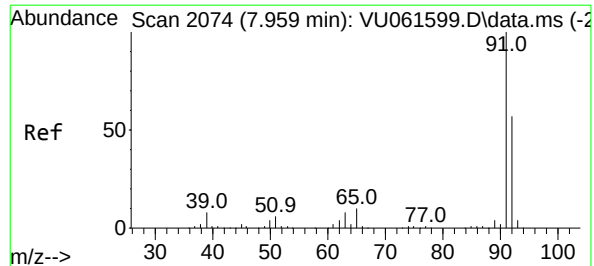
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#48
Ethyl methacrylate
Concen: 5.549 ug/l
RT: 8.328 min Scan# 2189
Delta R.T. 0.003 min
Lab File: VU061598.D
Acq: 12 Nov 2024 10:21

Tgt Ion	Ratio	Lower	Upper
69	100		
41	54.8	27.3	81.9





#49

Toluene

Concen: 5.431 ug/l

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion: 92 Resp: 175035

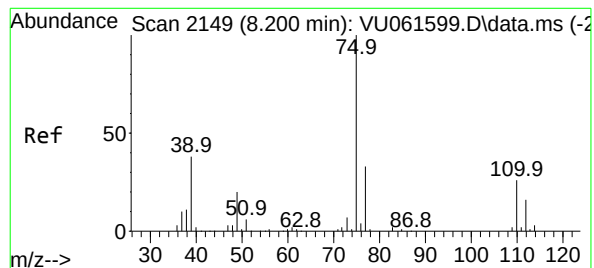
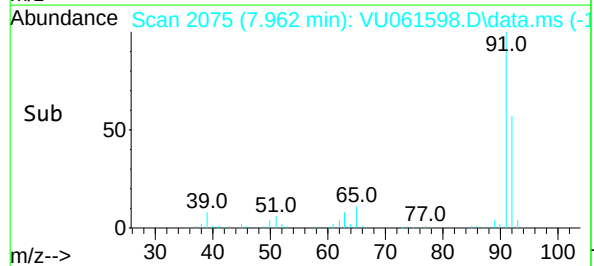
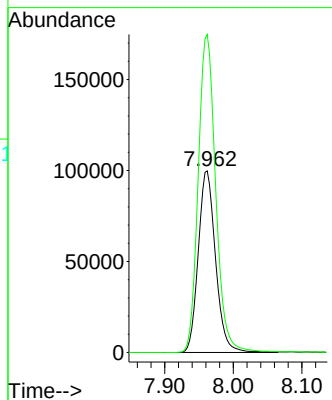
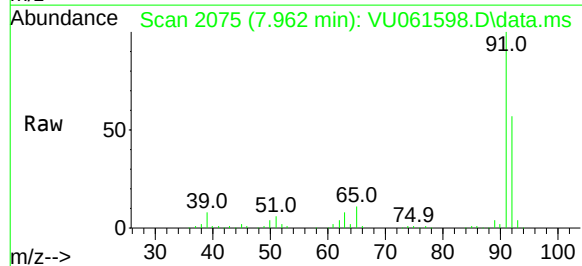
Ion Ratio Lower Upper

92 100

91 177.3 139.6 209.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#50

t-1,3-Dichloropropene

Concen: 5.560 ug/l

RT: 8.203 min Scan# 2150

Delta R.T. 0.003 min

Lab File: VU061598.D

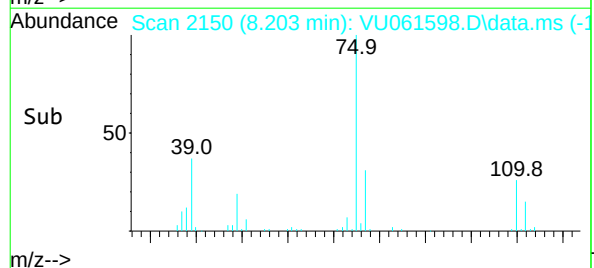
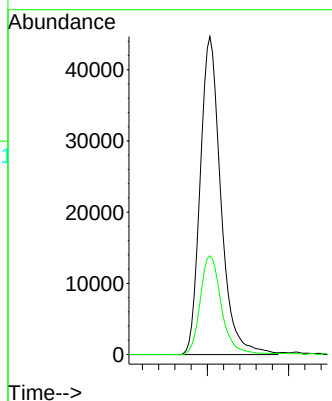
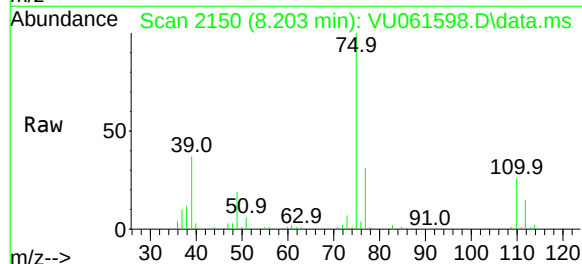
Acq: 12 Nov 2024 10:21

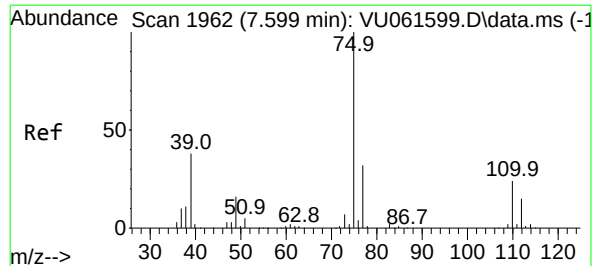
Tgt Ion: 75 Resp: 78836

Ion Ratio Lower Upper

75 100

77 31.0 26.0 39.0





#51

cis-1,3-Dichloropropene

Concen: 5.329 ug/l

RT: 7.599 min Scan# 1962

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

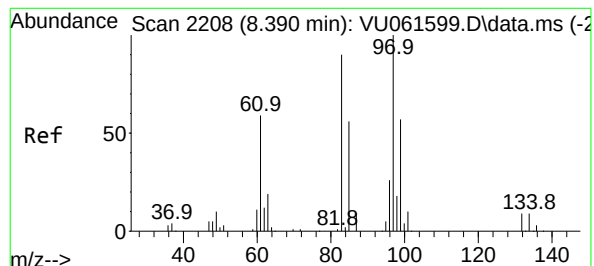
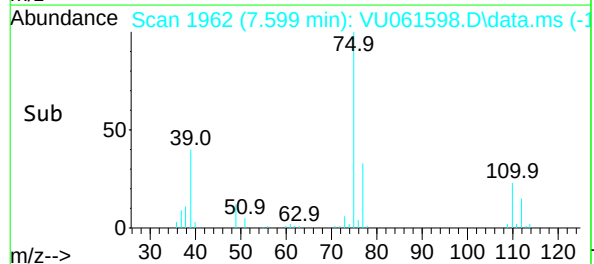
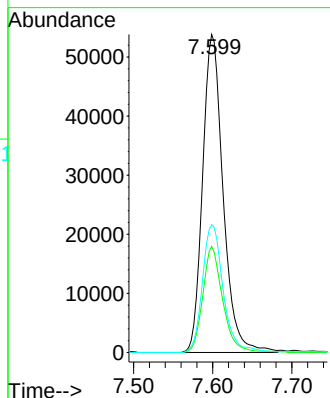
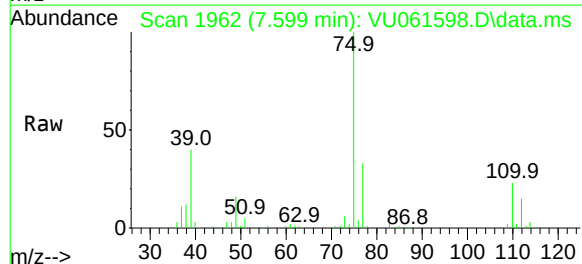
ClientSampleId :

VSTDIC005

Tgt Ion:	75	Resp:	96945
Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.5	38.3
39	40.2	30.6	46.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#52

1,1,2-Trichloroethane

Concen: 5.345 ug/l

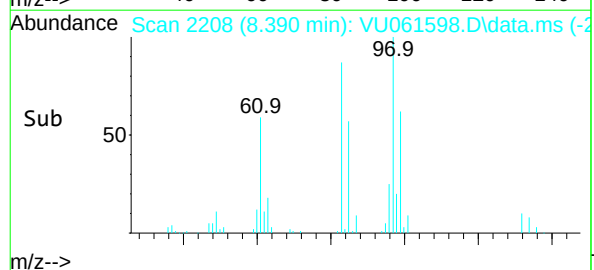
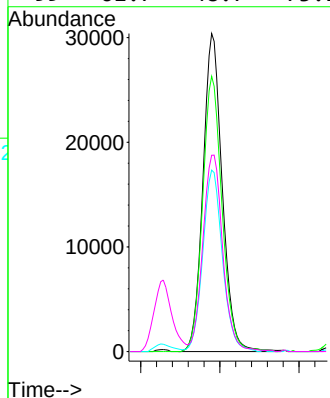
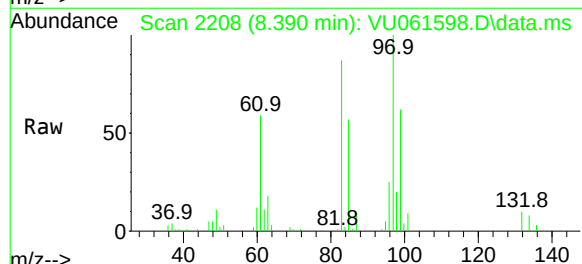
RT: 8.390 min Scan# 2208

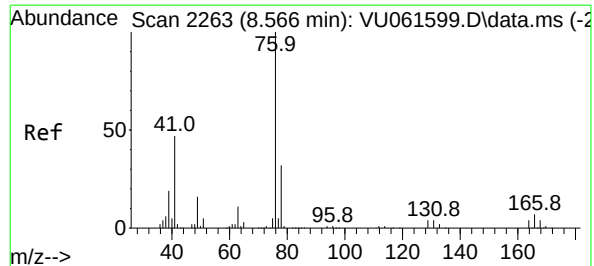
Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion:	97	Resp:	51418
Ion	Ratio	Lower	Upper
97	100		
83	86.5	71.7	107.5
85	57.1	45.2	67.8
99	61.7	48.7	73.1





#53

1,3-Dichloropropane

Concen: 5.423 ug/l

RT: 8.566 min Scan# 2263

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion: 76 Resp: 89025

Ion Ratio Lower Upper

76 100

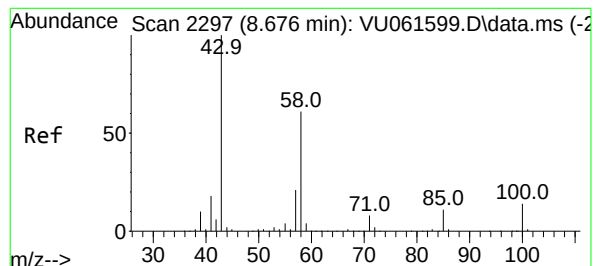
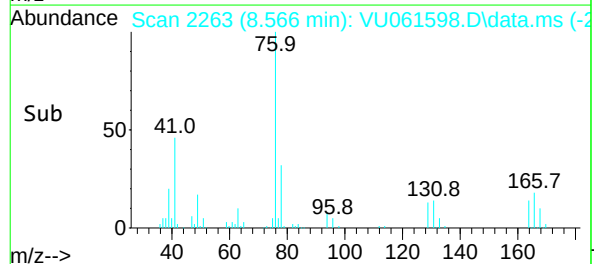
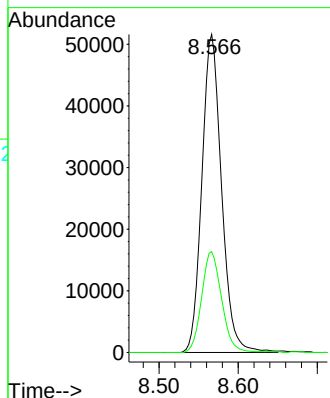
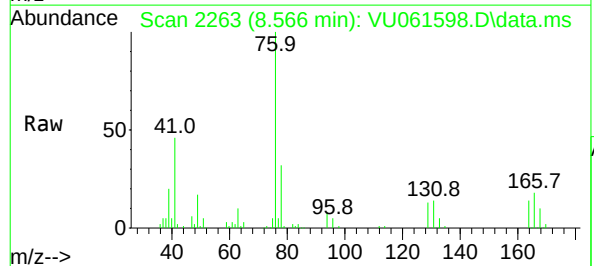
78 32.2 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#54

2-Hexanone

Concen: 26.354 ug/l

RT: 8.679 min Scan# 2298

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

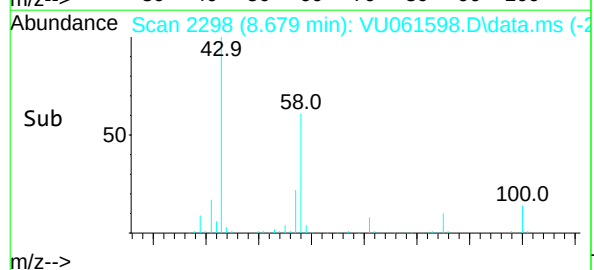
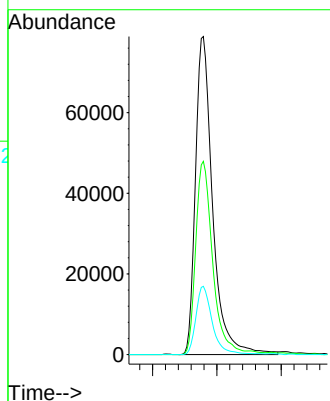
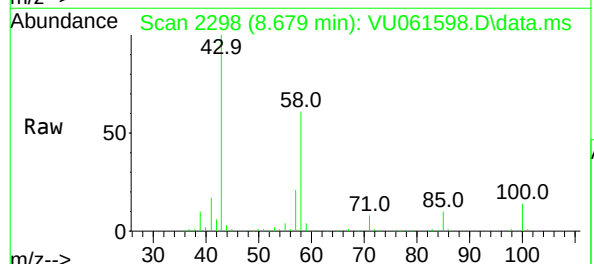
Tgt Ion: 43 Resp: 146577

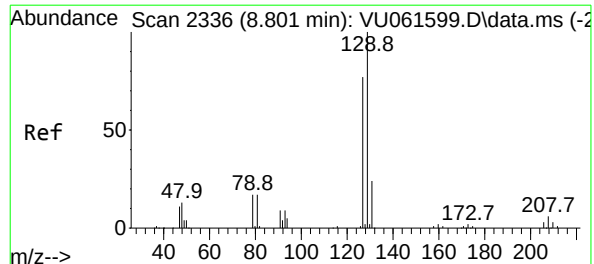
Ion Ratio Lower Upper

43 100

58 59.7 42.3 82.3

57 20.5 0.9 40.9





#55

Dibromochloromethane

Concen: 5.454 ug/l

RT: 8.801 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion:129 Resp: 56789

Ion Ratio Lower Upper

129 100

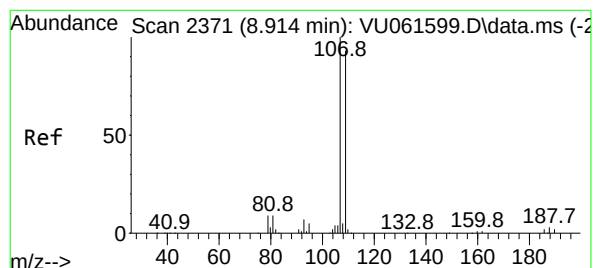
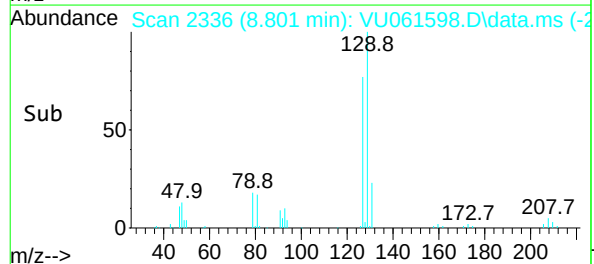
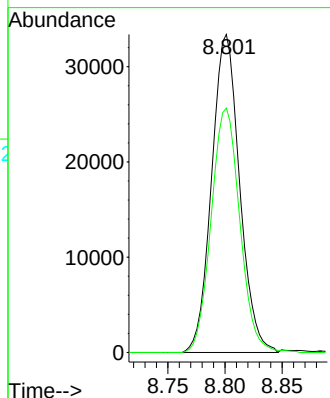
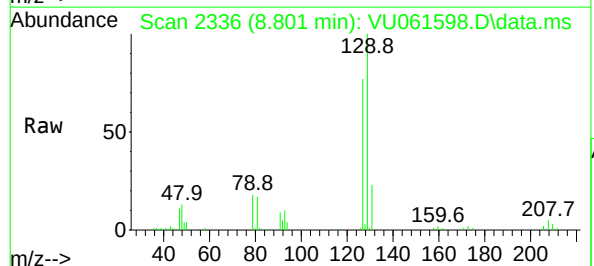
127 78.7 61.8 92.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#56

1,2-Dibromoethane

Concen: 5.423 ug/l

RT: 8.917 min Scan# 2372

Delta R.T. 0.003 min

Lab File: VU061598.D

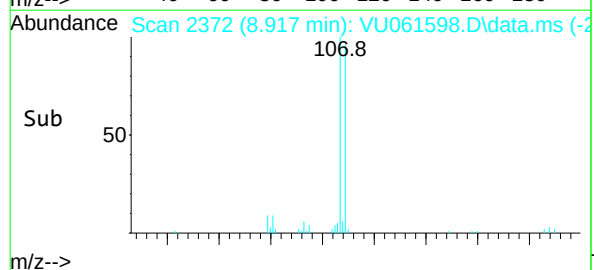
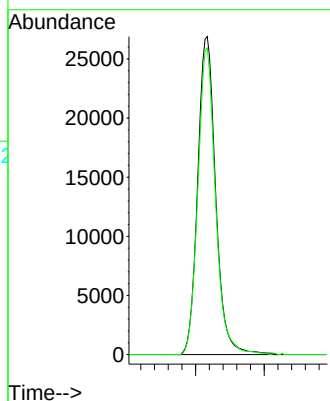
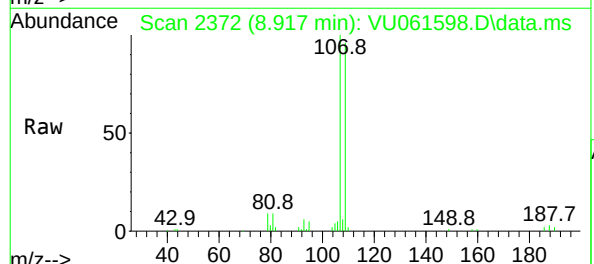
Acq: 12 Nov 2024 10:21

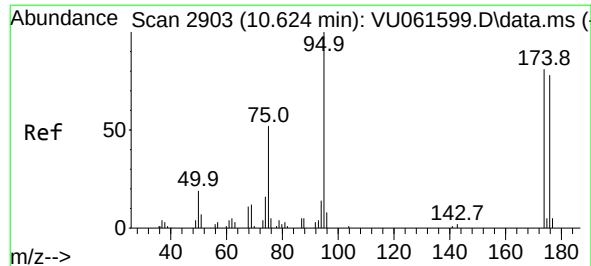
Tgt Ion:107 Resp: 49027

Ion Ratio Lower Upper

107 100

109 94.5 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 1.030 ug/l

RT: 10.627 min Scan# 2903

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 95 Resp: 17476

Ion Ratio Lower Upper

95 100

174 78.9 67.5 101.3

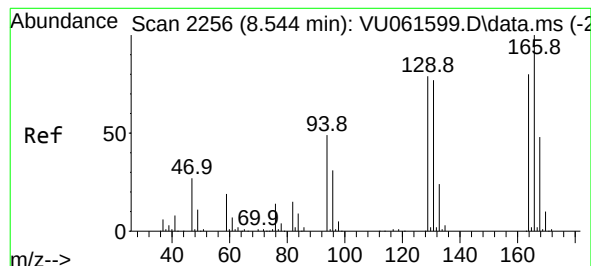
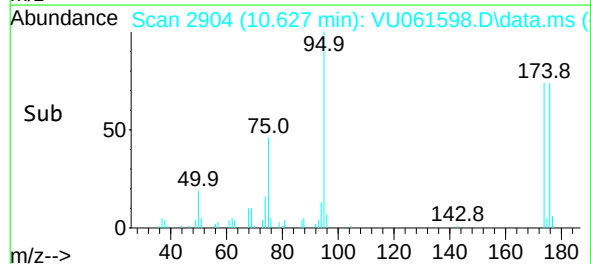
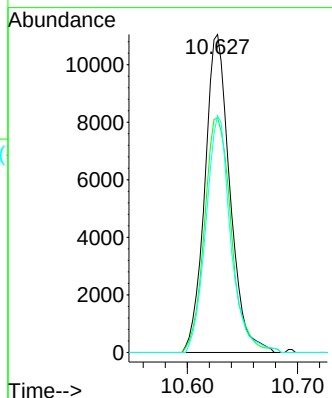
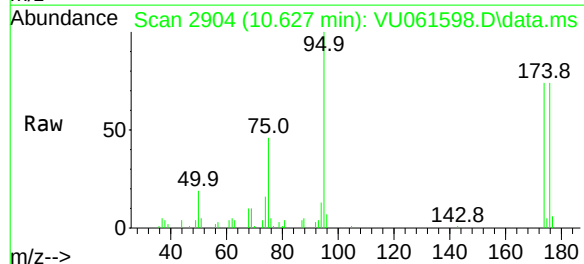
176 73.9 62.7 94.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#58

Tetrachloroethene

Concen: 5.383 ug/l

RT: 8.544 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion:164 Resp: 67674

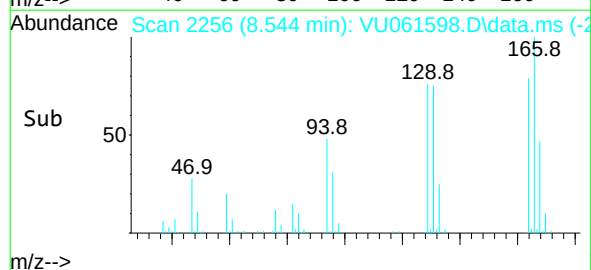
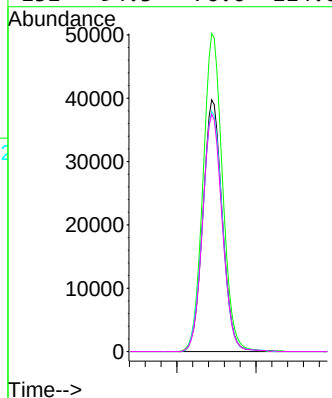
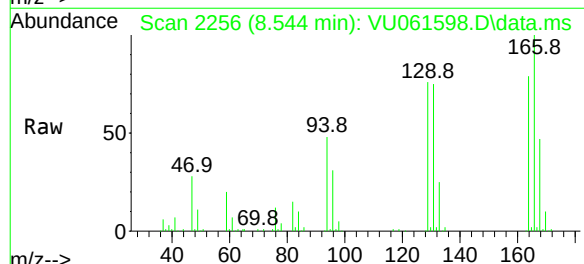
Ion Ratio Lower Upper

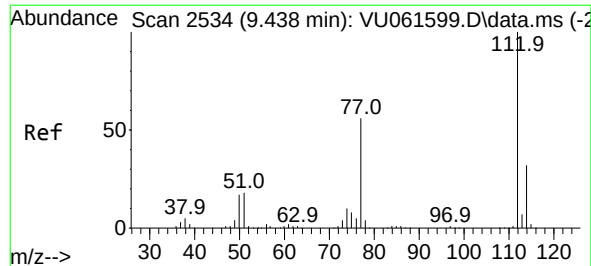
164 100

166 126.3 99.9 149.9

129 95.5 78.6 118.0

131 94.3 76.6 114.8





#59

Chlorobenzene

Concen: 5.391 ug/l

RT: 9.438 min Scan# 25

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 191924

Ion Ratio Lower Upper

112 100

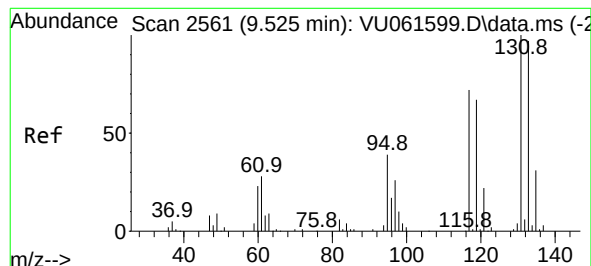
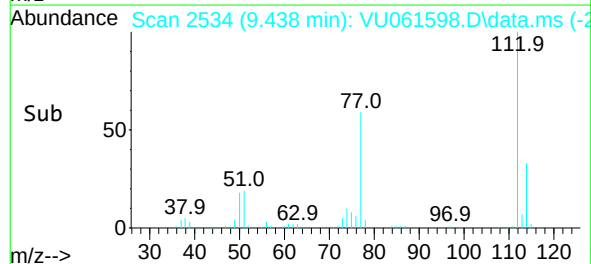
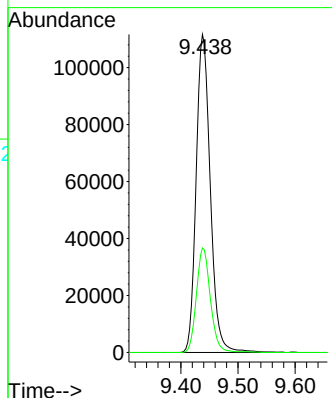
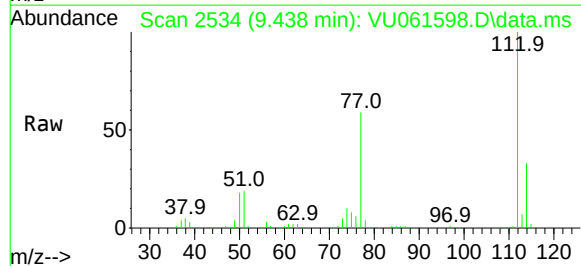
114 32.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#60

1,1,1,2-Tetrachloroethane

Concen: 5.465 ug/l

RT: 9.525 min Scan# 2561

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

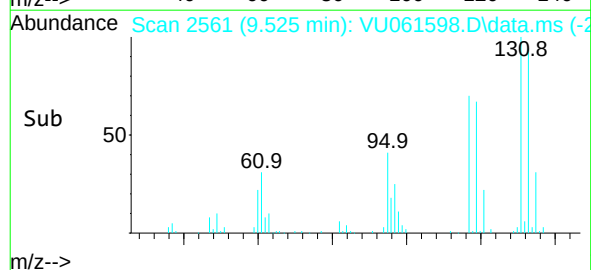
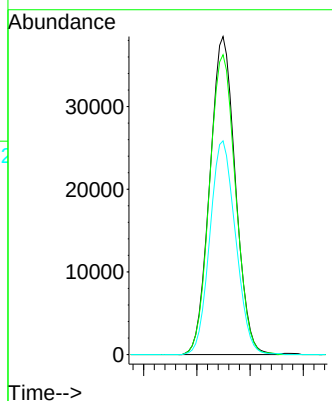
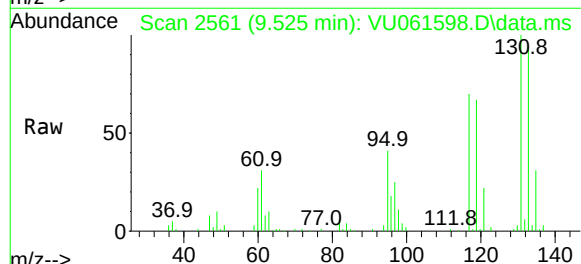
Tgt Ion:131 Resp: 64215

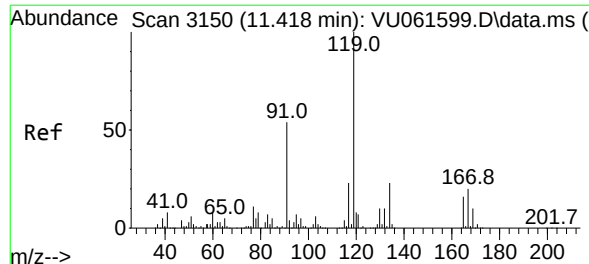
Ion Ratio Lower Upper

131 100

133 96.1 76.4 114.6

119 67.7 53.5 80.3





#61

Pentachloroethane

Concen: 5.619 ug/l

RT: 11.418 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 49681

Ion Ratio Lower Upper

117 100

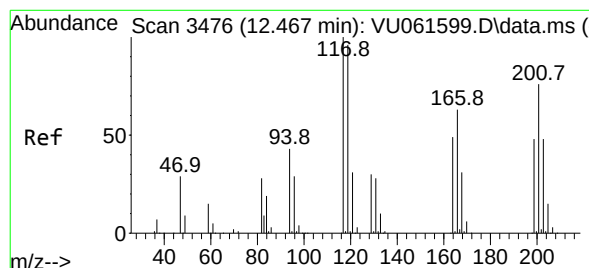
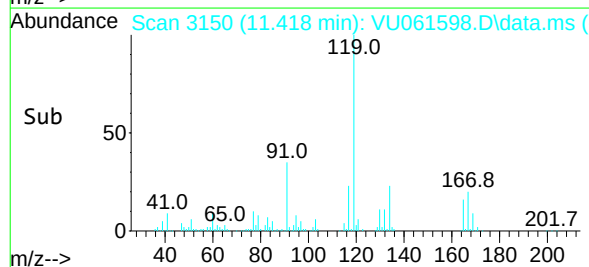
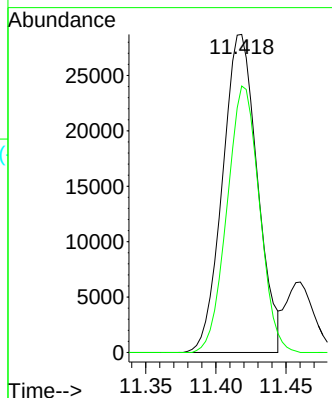
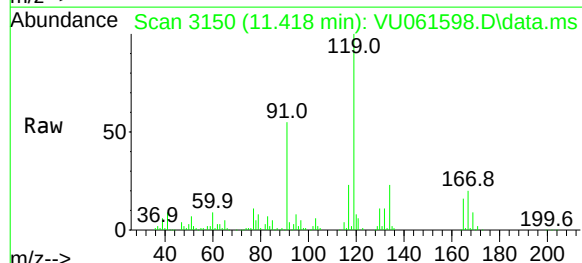
167 77.8 65.4 98.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 4.790 ug/l

RT: 12.467 min Scan# 3476

Delta R.T. -0.000 min

Lab File: VU061598.D

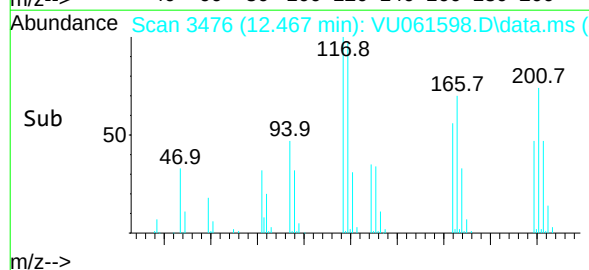
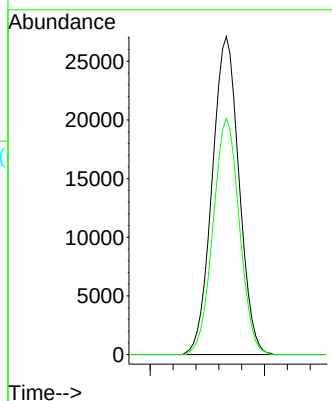
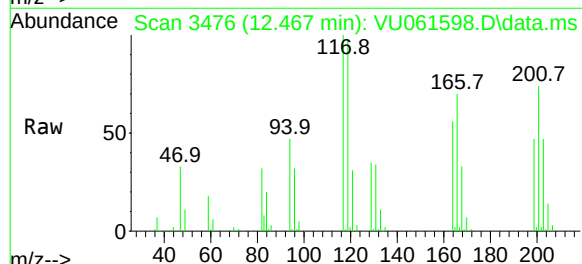
Acq: 12 Nov 2024 10:21

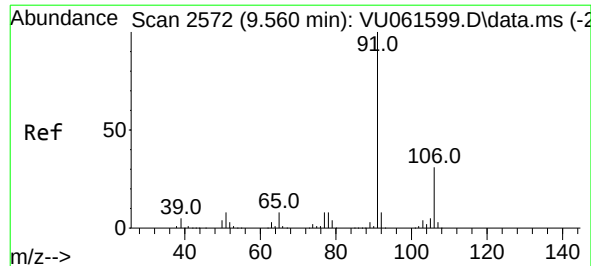
Tgt Ion:117 Resp: 44245

Ion Ratio Lower Upper

117 100

201 72.8 61.0 91.6





#63

Ethyl Benzene

Concen: 5.515 ug/l

RT: 9.560 min Scan# 2572

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 330561

Ion Ratio Lower Upper

91 100

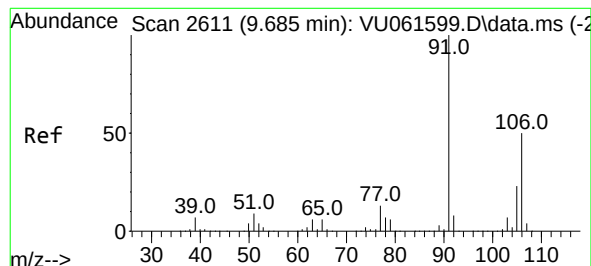
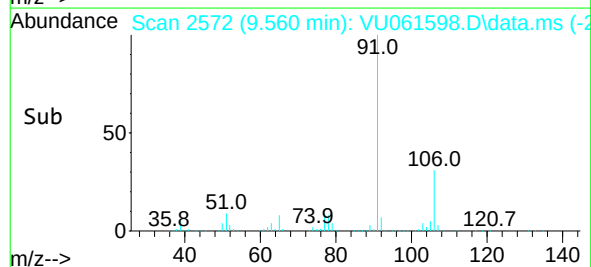
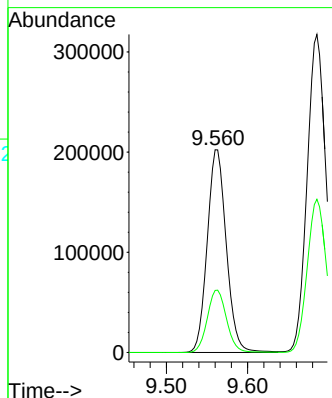
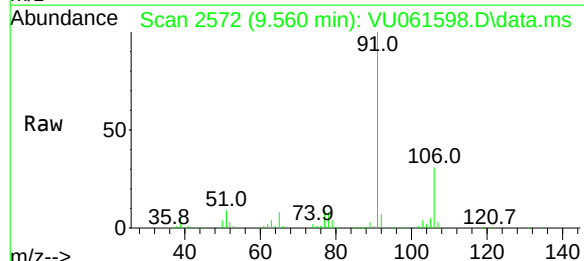
106 30.6 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#64

m/p-Xylenes

Concen: 11.169 ug/l

RT: 9.685 min Scan# 2611

Delta R.T. -0.000 min

Lab File: VU061598.D

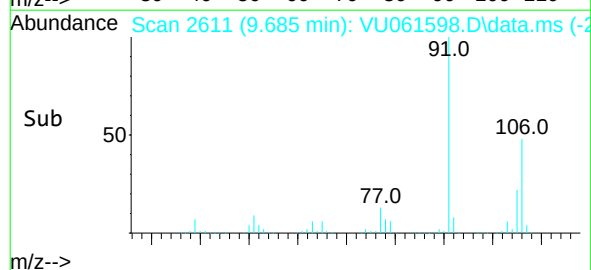
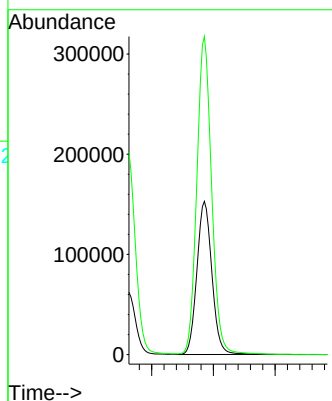
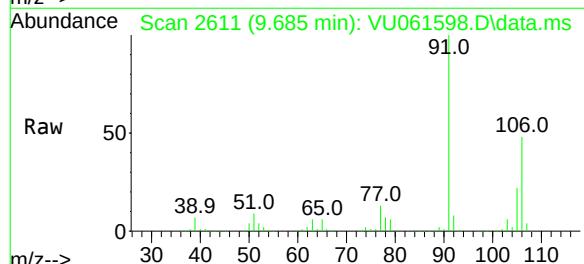
Acq: 12 Nov 2024 10:21

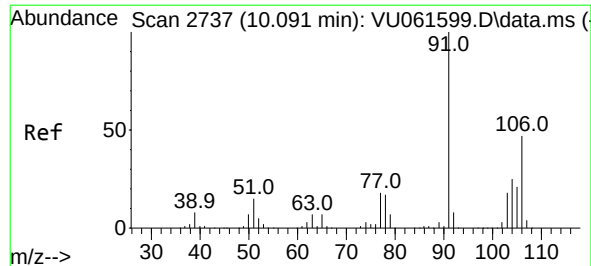
Tgt Ion:106 Resp: 257825

Ion Ratio Lower Upper

106 100

91 205.1 161.3 241.9





#65

o-Xylene

Concen: 5.534 ug/l

RT: 10.090 min Scan# 2737

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 124563

Ion Ratio Lower Upper

106 100

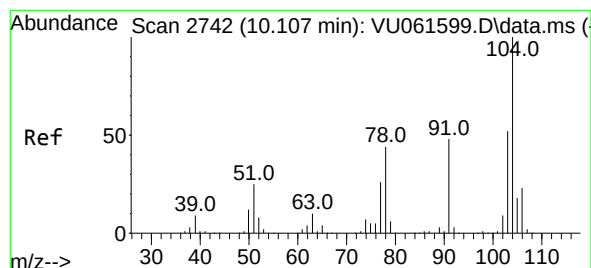
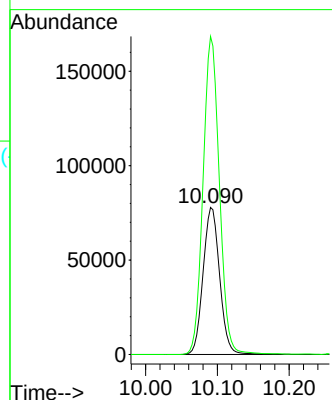
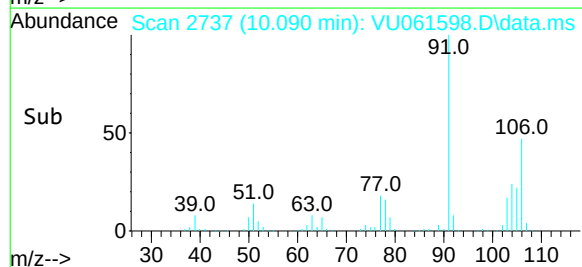
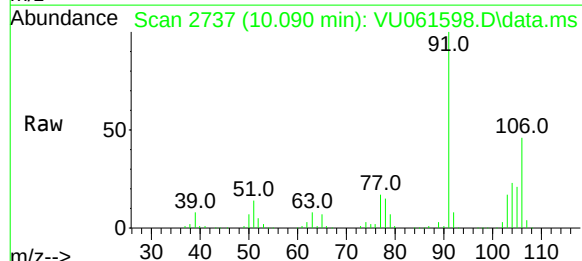
91 213.8 106.7 320.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#66

Styrene

Concen: 4.995 ug/l

RT: 10.107 min Scan# 2742

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

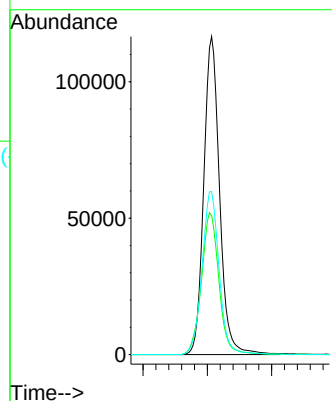
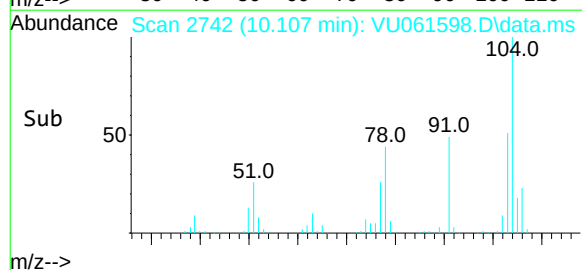
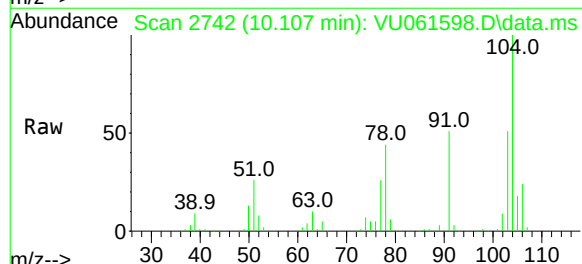
Tgt Ion:104 Resp: 199151

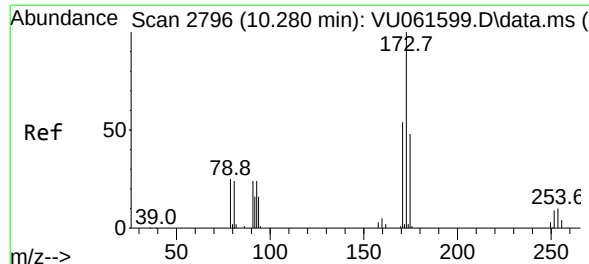
Ion Ratio Lower Upper

104 100

78 49.4 39.2 58.8

103 55.5 44.9 67.3





#67

Bromoform

Concen: 5.428 ug/l

RT: 10.280 min Scan# 2796

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

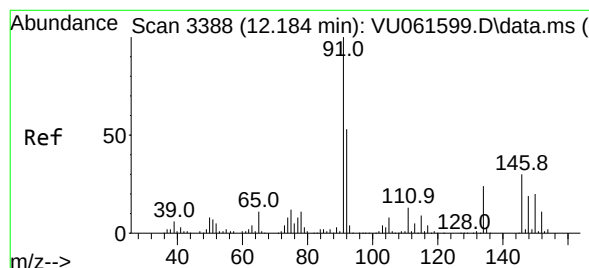
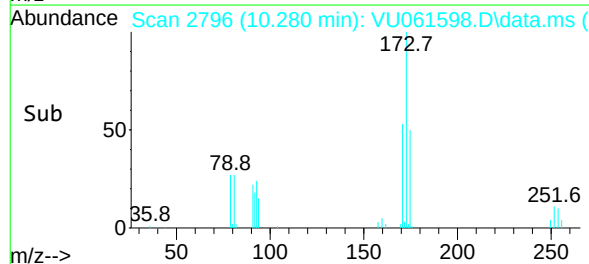
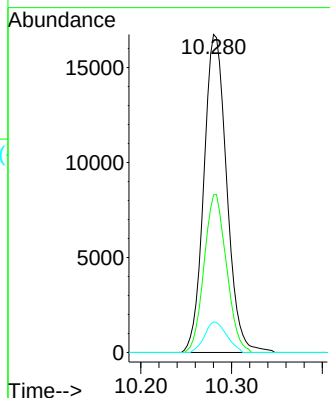
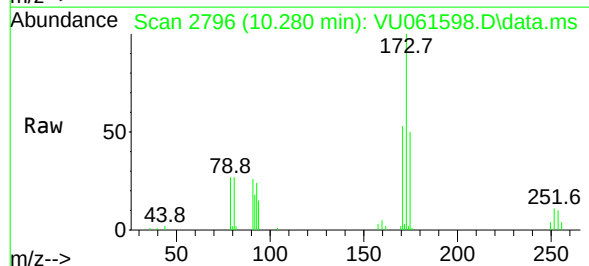
ClientSampleId :

VSTDIC005

Tgt	Ion:173	Resp:	29325
Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.4	57.6
254	9.3	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 1.027 ug/l

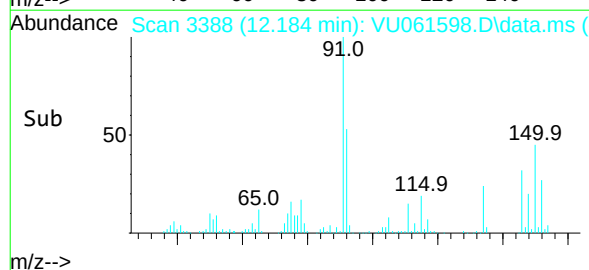
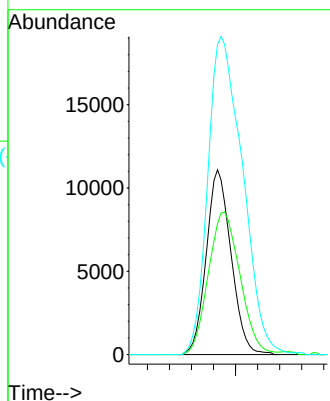
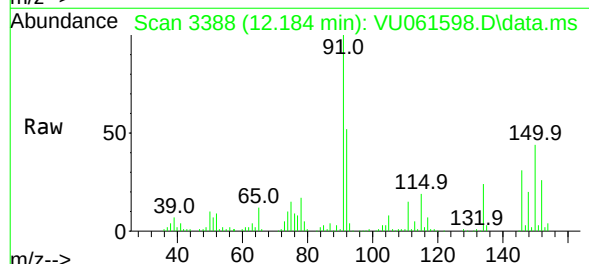
RT: 12.184 min Scan# 3388

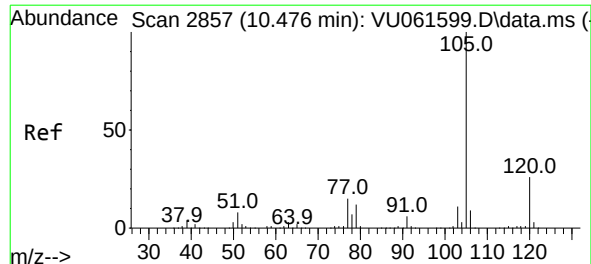
Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt	Ion:152	Resp:	17355
Ion	Ratio	Lower	Upper
152	100		
115	98.5	0.0	259.0
150	240.5	0.0	650.2





#69

Isopropylbenzene

Concen: 5.555 ug/l

RT: 10.476 min Scan# 2857

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion: 105 Resp: 292449

Ion Ratio Lower Upper

105 100

120 26.4 13.2 39.6

Instrument :

MSVOA_U

ClientSampleId :

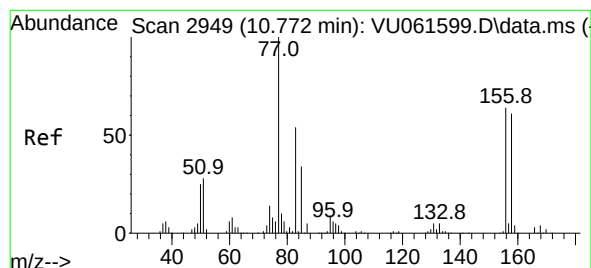
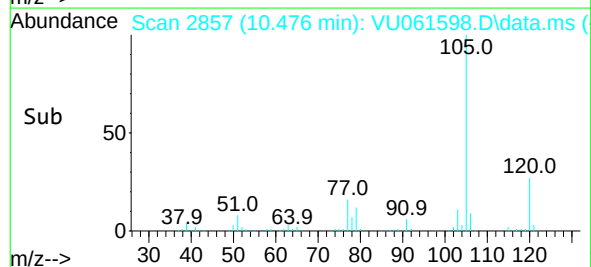
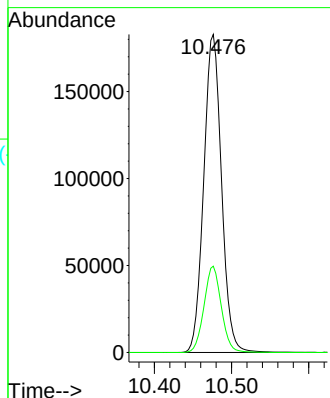
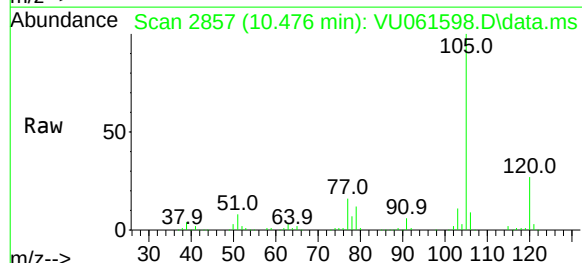
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 5.439 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

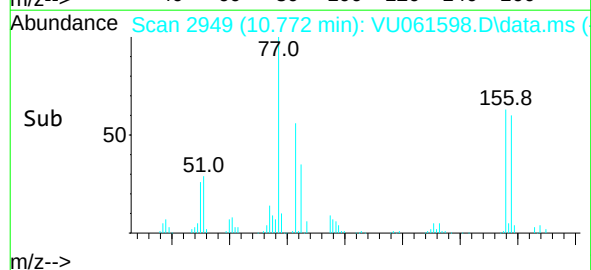
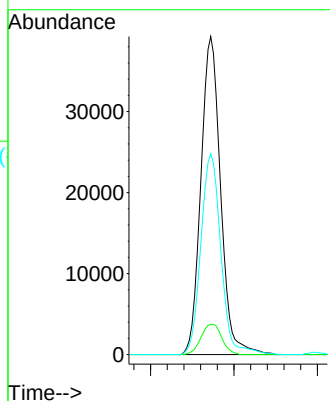
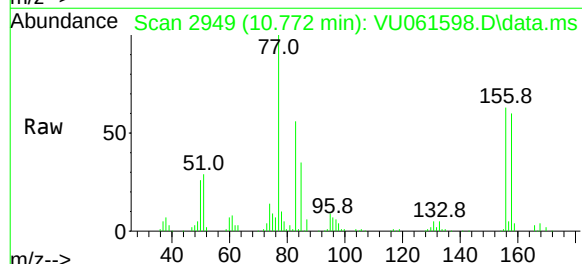
Tgt Ion: 83 Resp: 64432

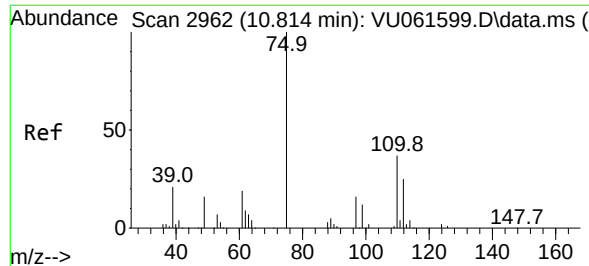
Ion Ratio Lower Upper

83 100

131 10.1 7.9 11.9

85 64.1 51.4 77.2





#71

1,2,3-Trichloropropane

Concen: 5.111 ug/l m

RT: 10.814 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 49335

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 34.0 0.0 61.6

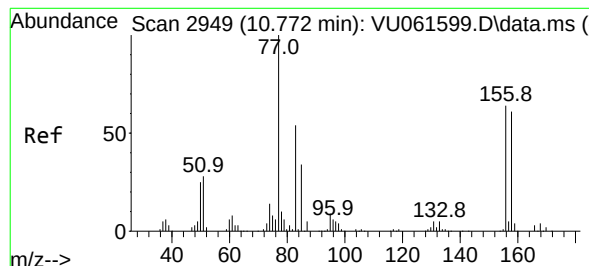
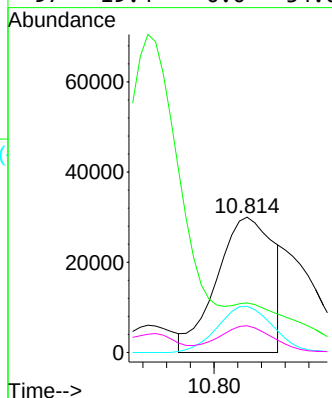
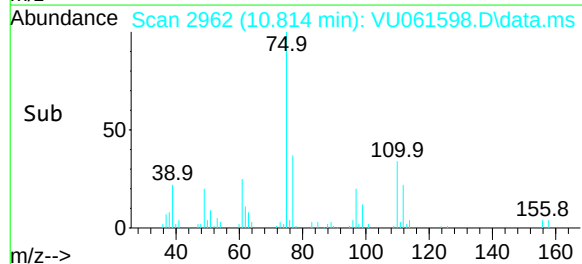
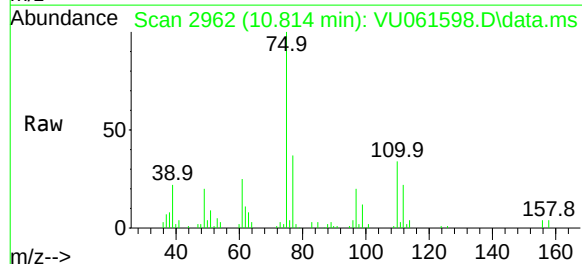
97 19.4 0.0 34.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

Concen: 5.382 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

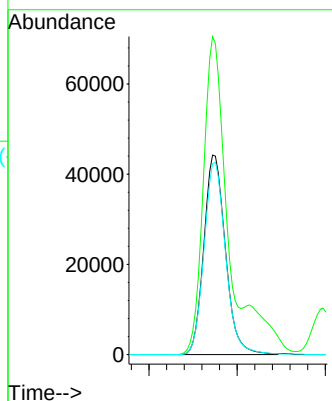
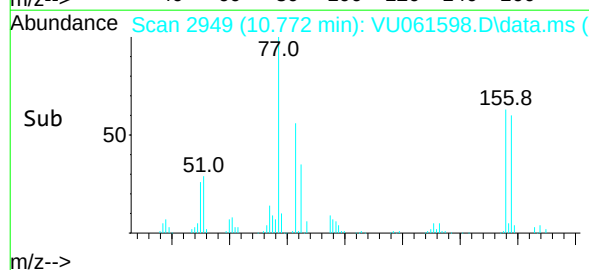
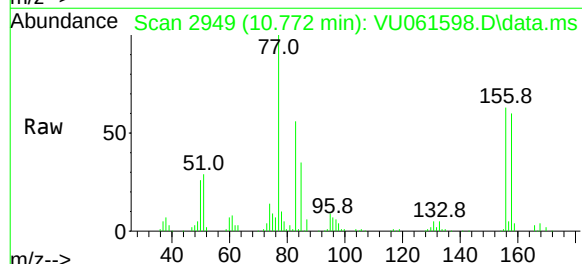
Tgt Ion:156 Resp: 75119

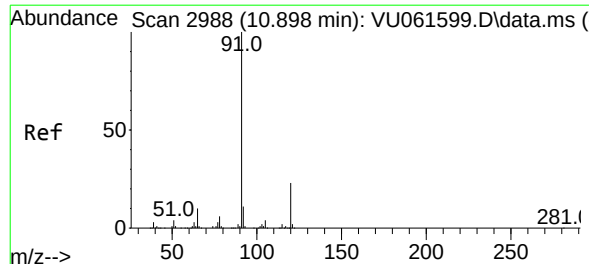
Ion Ratio Lower Upper

156 100

77 159.3 0.0 313.0

158 96.8 0.0 193.2





#73

n-propylbenzene

Concen: 5.627 ug/l

RT: 10.898 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion:120 Resp: 87585

Ion Ratio Lower Upper

120 100

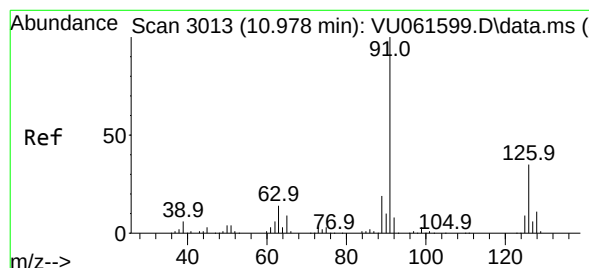
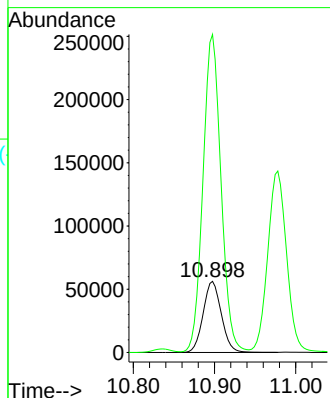
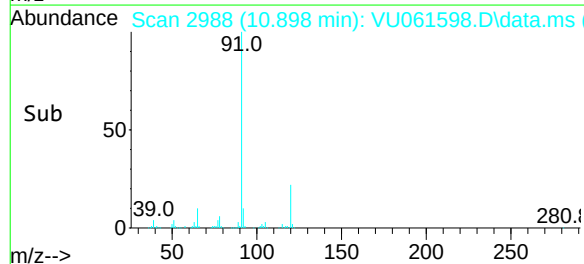
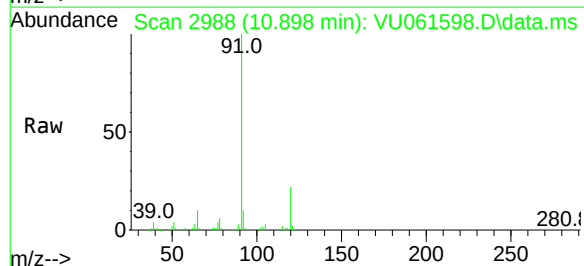
91 441.1 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#74

2-Chlorotoluene

Concen: 5.647 ug/l

RT: 10.978 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU061598.D

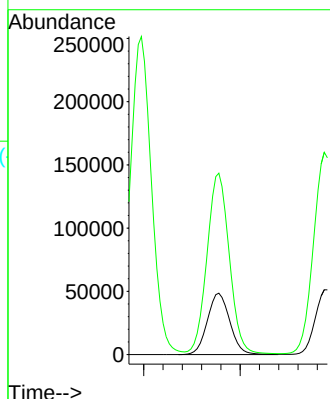
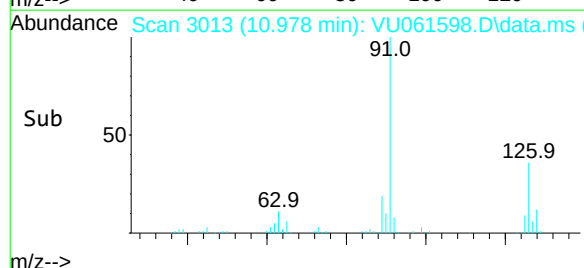
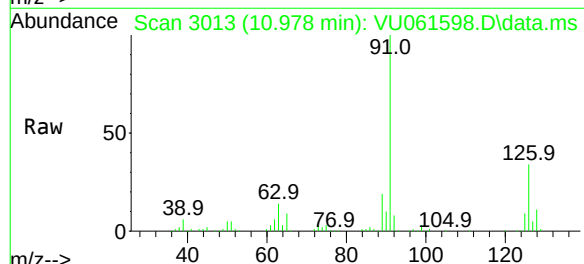
Acq: 12 Nov 2024 10:21

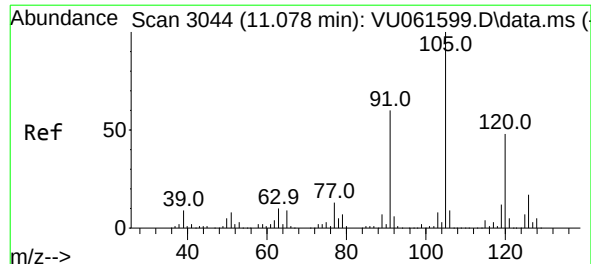
Tgt Ion:126 Resp: 78419

Ion Ratio Lower Upper

126 100

91 292.6 0.0 587.6





#75

1,3,5-Trimethylbenzene

Concen: 5.692 ug/l

RT: 11.078 min Scan# 3044

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion:105 Resp: 271296

Ion Ratio Lower Upper

105 100

120 48.4 38.8 58.2

Instrument :

MSVOA_U

ClientSampleId :

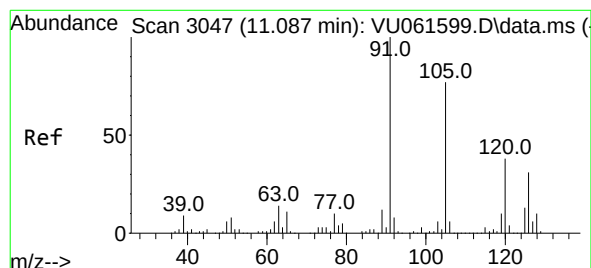
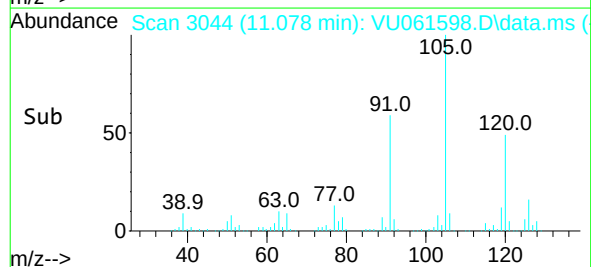
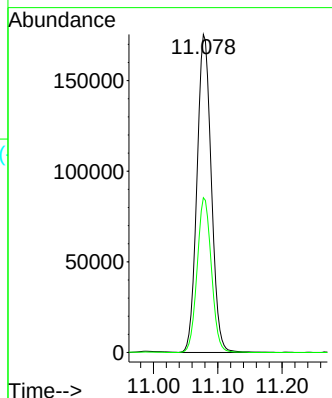
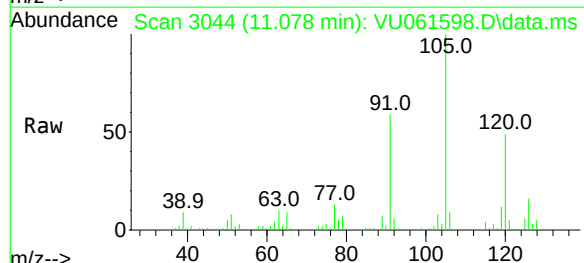
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#76

4-Chlorotoluene

Concen: 5.701 ug/l

RT: 11.087 min Scan# 3047

Delta R.T. -0.000 min

Lab File: VU061598.D

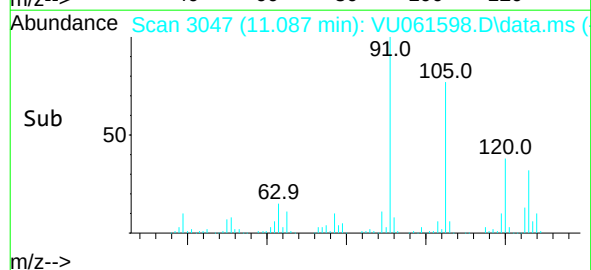
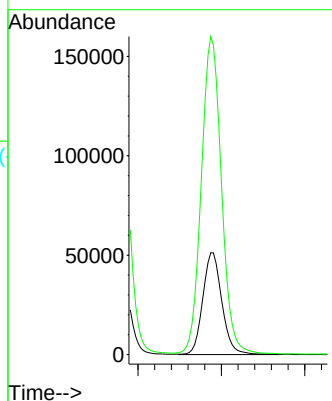
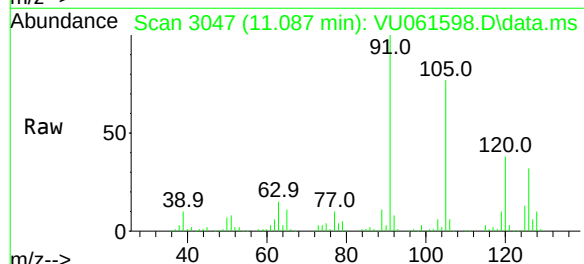
Acq: 12 Nov 2024 10:21

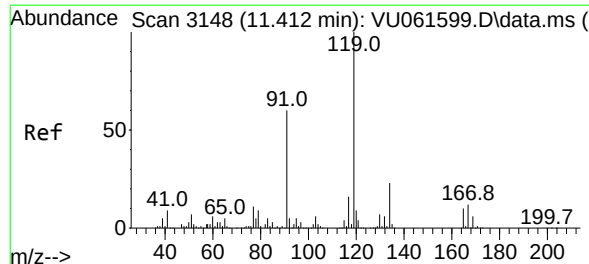
Tgt Ion:126 Resp: 81429

Ion Ratio Lower Upper

126 100

91 327.8 0.0 650.4





#77

tert-Butylbenzene

Concen: 5.606 ug/l

RT: 11.412 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion:119 Resp: 260872

Ion Ratio Lower Upper

119 100

91 59.5 29.2 87.6

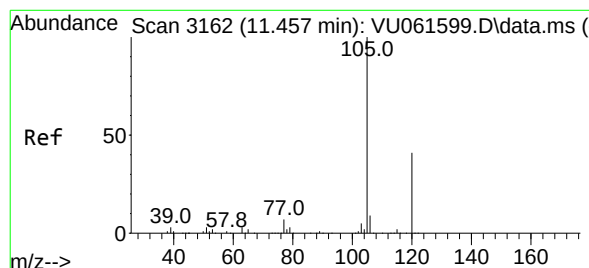
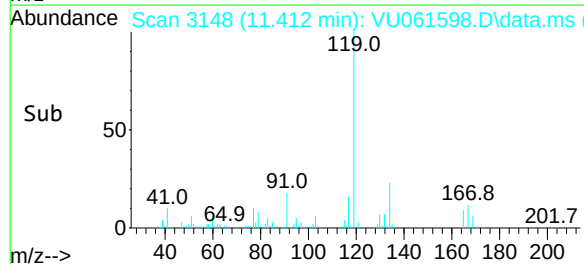
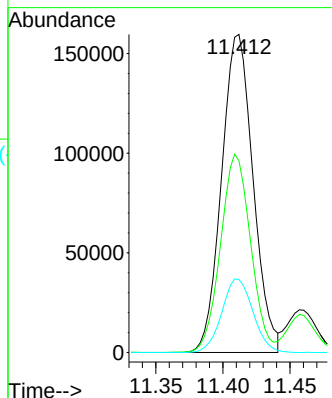
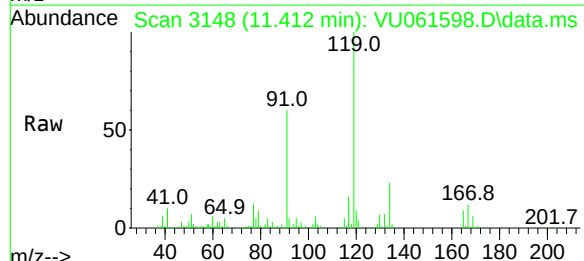
134 22.8 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 5.011 ug/l

RT: 11.457 min Scan# 3162

Delta R.T. -0.000 min

Lab File: VU061598.D

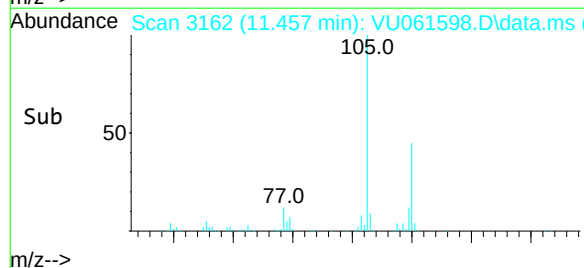
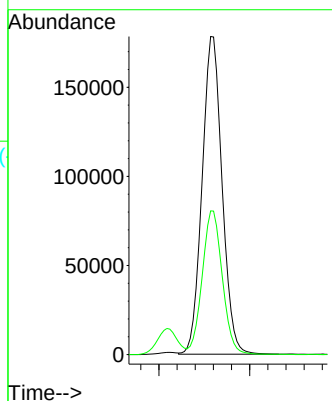
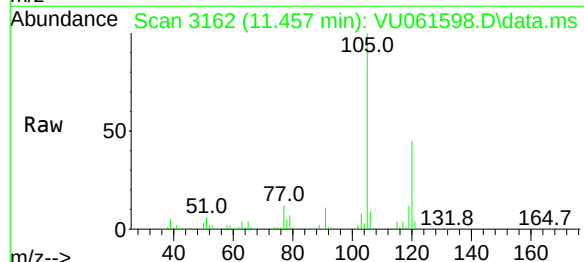
Acq: 12 Nov 2024 10:21

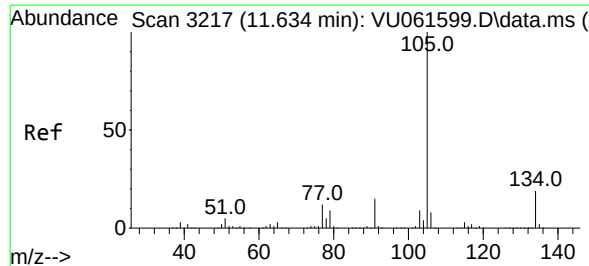
Tgt Ion:105 Resp: 272986

Ion Ratio Lower Upper

105 100

120 45.6 22.7 68.0





#79

sec-Butylbenzene

Concen: 5.637 ug/l

RT: 11.634 min Scan# 3217

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC005

Tgt Ion: 105 Resp: 347685

Ion Ratio Lower Upper

105 100

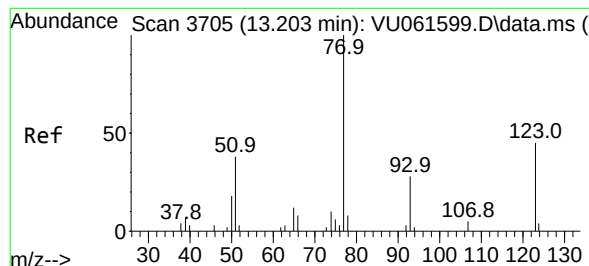
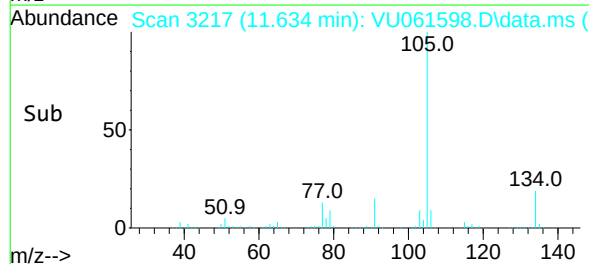
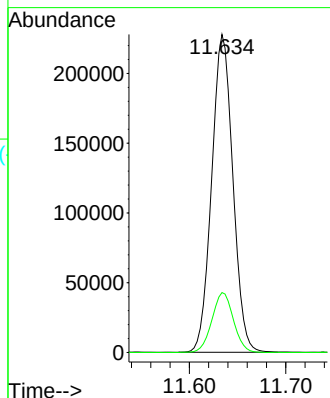
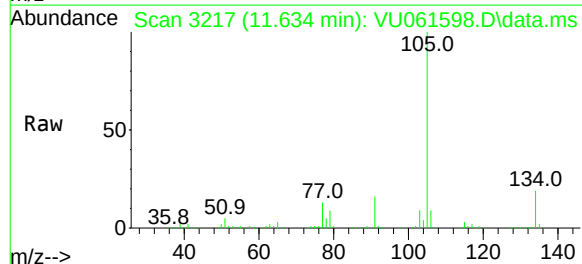
134 19.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#80

Nitrobenzene

Concen: 23.391 ug/l m

RT: 13.206 min Scan# 3706

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

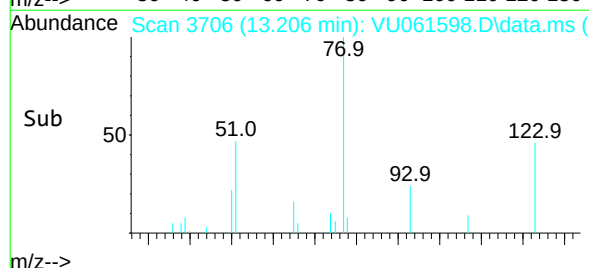
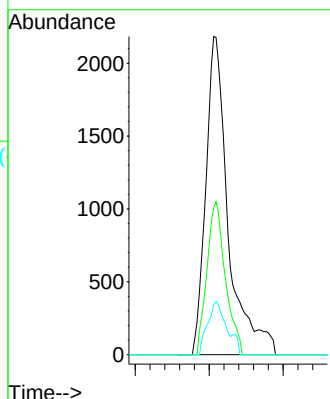
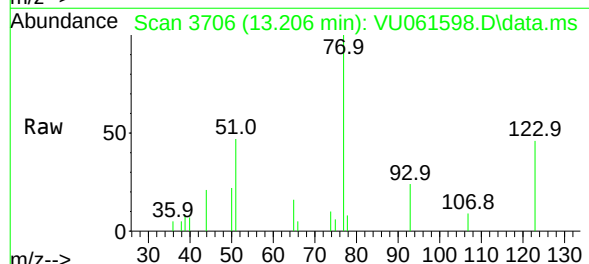
Tgt Ion: 77 Resp: 4594

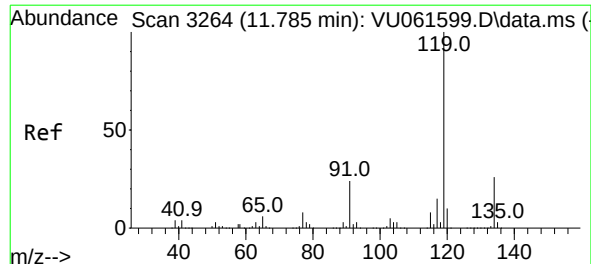
Ion Ratio Lower Upper

77 100

123 39.5 16.9 60.1

65 14.4 9.4 12.0#





#81

p-Isopropyltoluene

Concen: 4.976 ug/l

RT: 11.785 min Scan# 3264

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

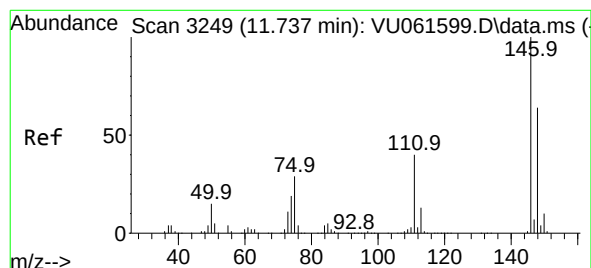
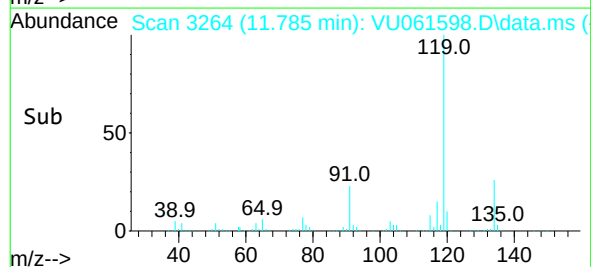
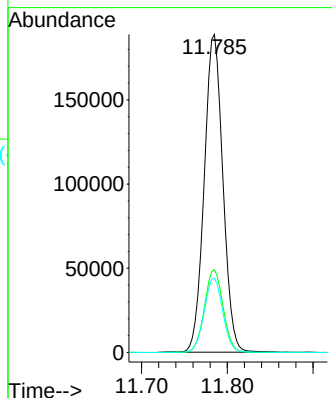
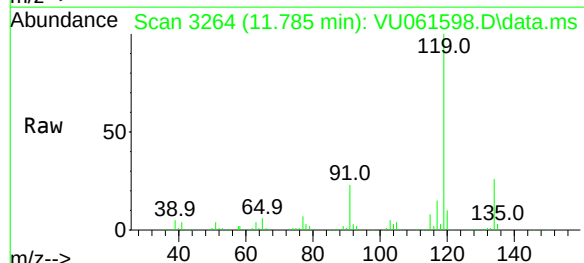
ClientSampleId :

VSTDIC005

Tgt Ion:	119	Resp:	285141
Ion Ratio	Lower	Upper	
119	100		
134	26.1	20.9	31.3
91	23.5	18.8	28.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#82

1,3-Dichlorobenzene

Concen: 5.410 ug/l

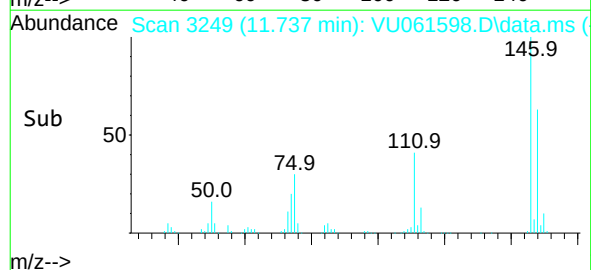
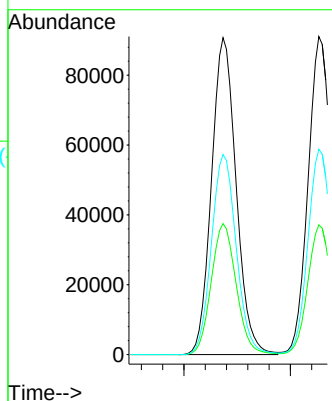
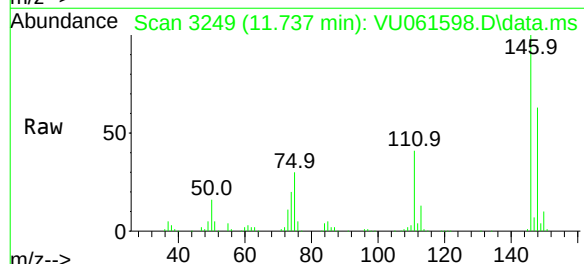
RT: 11.737 min Scan# 3249

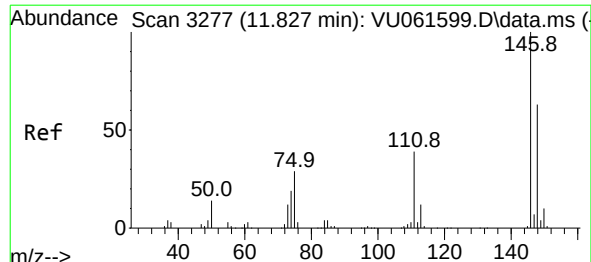
Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion:	146	Resp:	146069
Ion Ratio	Lower	Upper	
146	100		
111	41.8	32.6	49.0
148	63.7	51.0	76.4





#83

1,4-Dichlorobenzene

Concen: 5.408 ug/l

RT: 11.827 min Scan# 3277

Delta R.T. -0.000 min

Lab File: VU061598.D

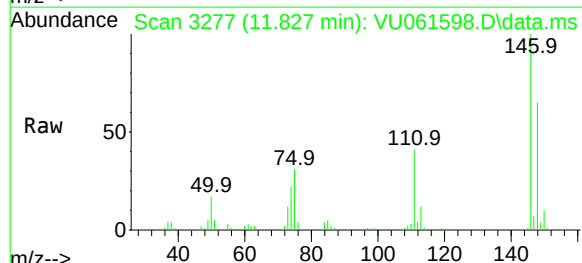
Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

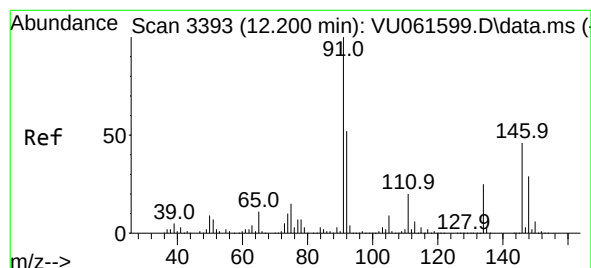
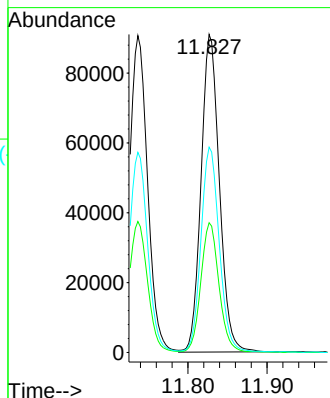
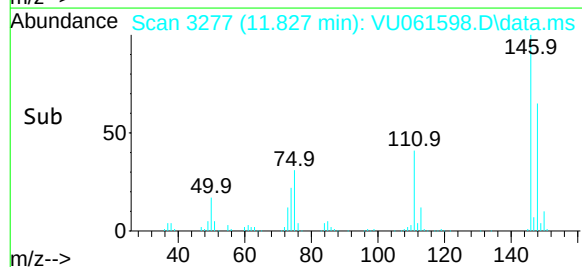
VSTDIC005



Tgt Ion:	146	Resp:	146140
Ion	Ratio	Lower	Upper
146	100		
111	39.8	31.2	46.8
148	64.4	50.2	75.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#84

n-Butylbenzene

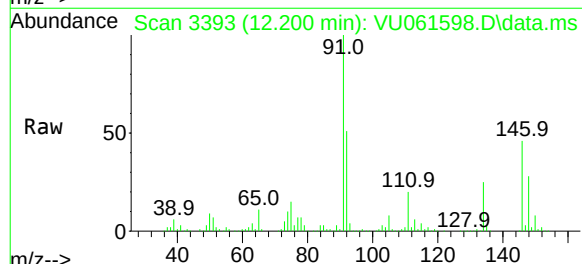
Concen: 4.975 ug/l

RT: 12.200 min Scan# 3393

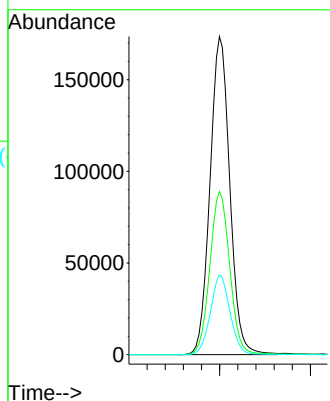
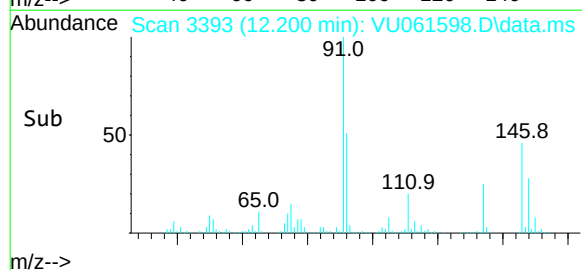
Delta R.T. -0.000 min

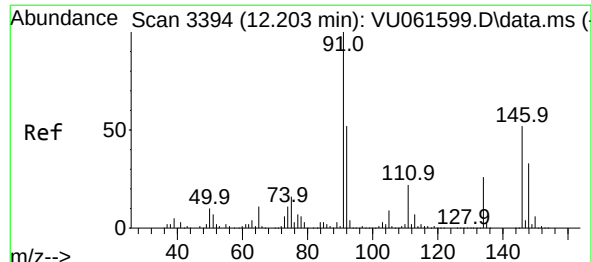
Lab File: VU061598.D

Acq: 12 Nov 2024 10:21



Tgt Ion:	91	Resp:	262542
Ion	Ratio	Lower	Upper
91	100		
92	51.5	41.8	62.6
134	24.8	20.2	30.4





#85

1,2-Dichlorobenzene

Concen: 5.503 ug/l

RT: 12.203 min Scan# 3394

Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

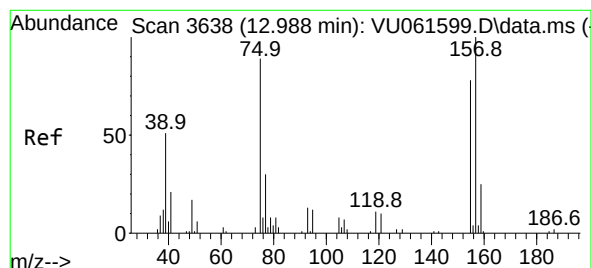
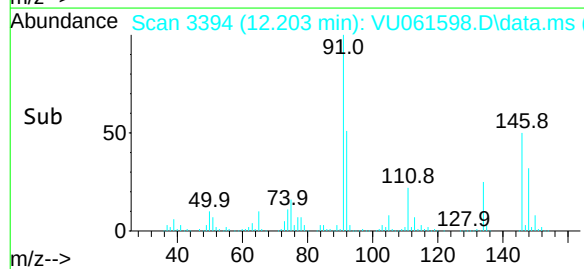
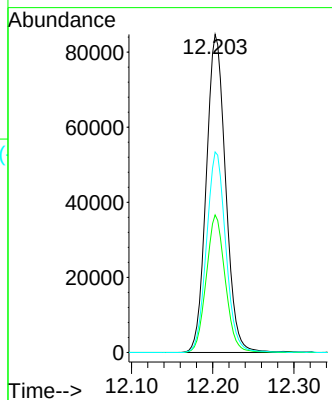
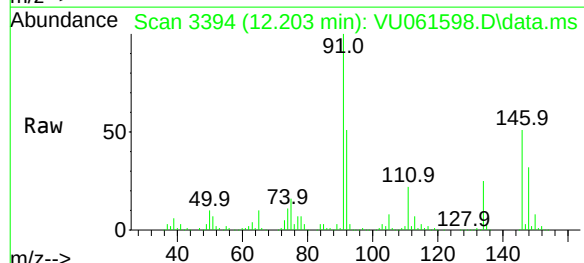
ClientSampleId :

VSTDIC005

Tgt Ion:	146	Resp:	140215
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.3	63.9
148	62.8	32.0	96.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#86

1,2-Dibromo-3-Chloropropane

Concen: 4.864 ug/l

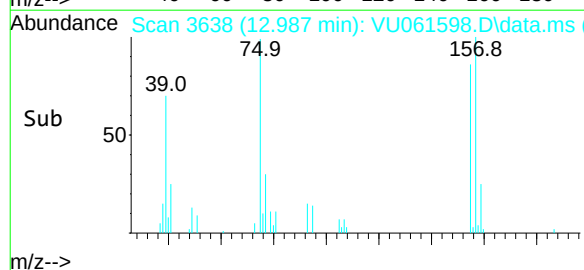
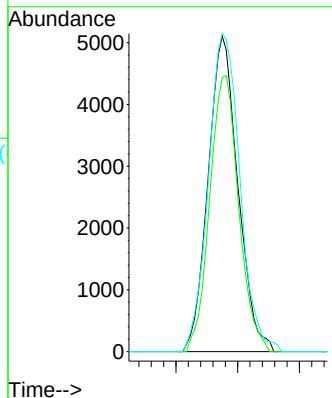
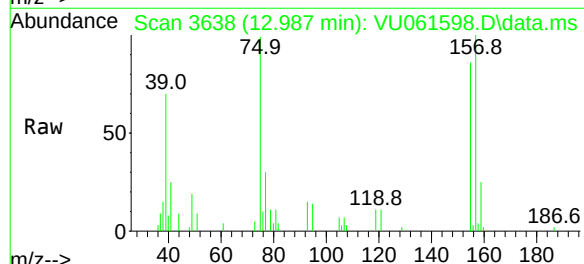
RT: 12.987 min Scan# 3638

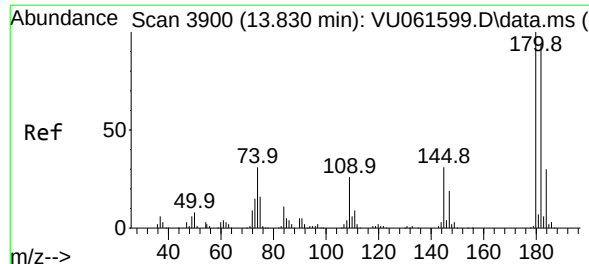
Delta R.T. -0.000 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion:	75	Resp:	8553
Ion	Ratio	Lower	Upper
75	100		
155	84.9	68.8	103.2
157	106.6	88.2	132.4





#87

1,2,4-Trichlorobenzene

Concen: 4.679 ug/l

RT: 13.833 min Scan# 3900

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

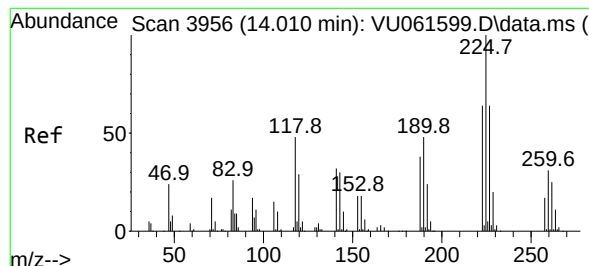
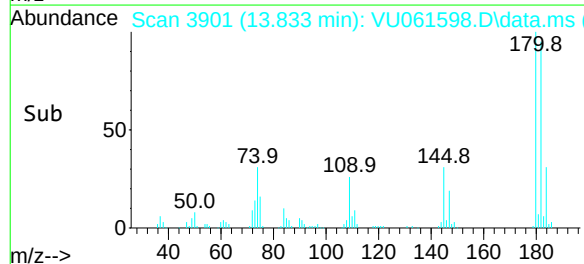
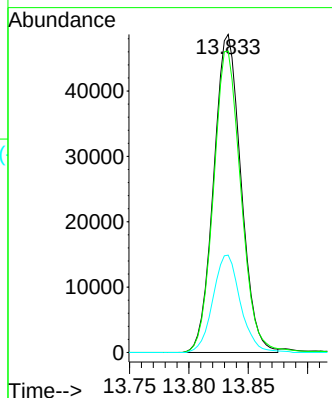
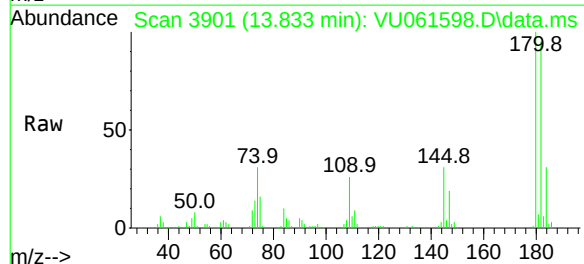
ClientSampleId :

VSTDIC005

Tgt Ion:	180	Resp:	77913
Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.3	112.9
145	30.8	24.3	36.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#88

Hexachlorobutadiene

Concen: 5.391 ug/l

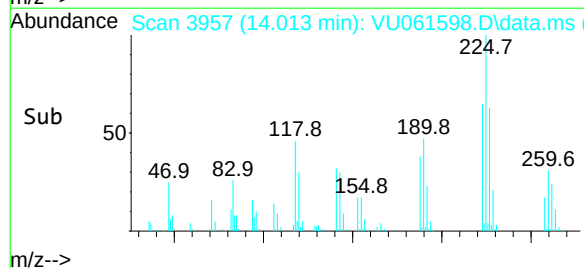
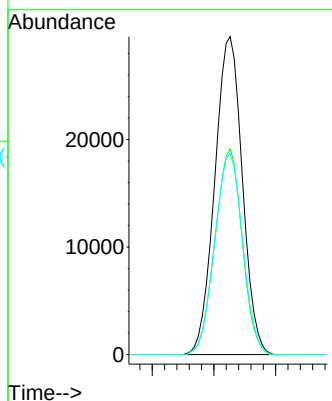
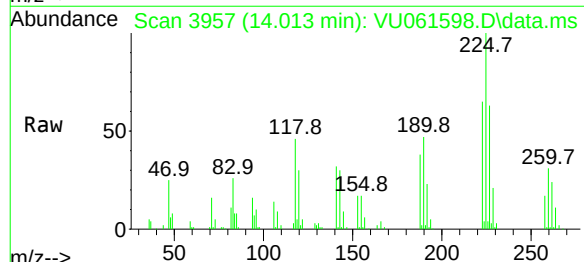
RT: 14.013 min Scan# 3957

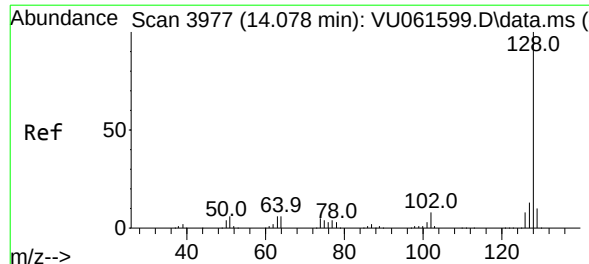
Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Tgt Ion:	225	Resp:	45874
Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.8	76.2
227	64.1	51.2	76.8





#89

Naphthalene

Concen: 4.580 ug/l

RT: 14.081 min Scan# 39

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tgt Ion:128 Resp: 126112

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

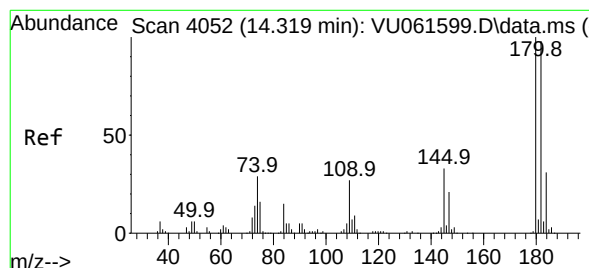
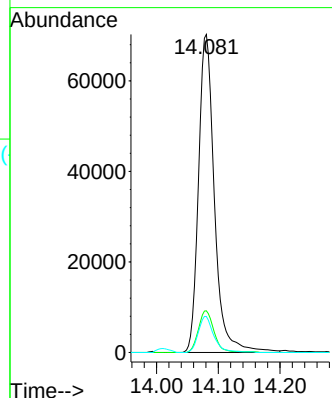
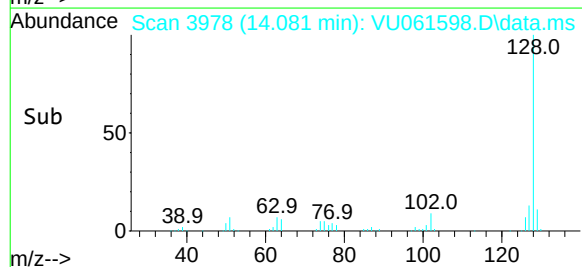
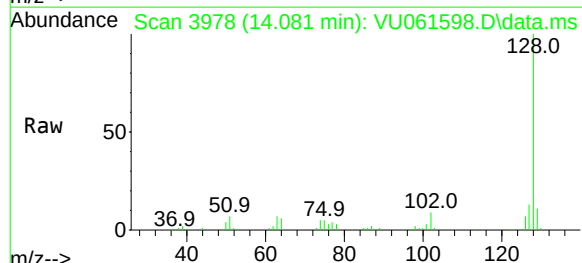
129 11.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#90

1,2,3-Trichlorobenzene

Concen: 4.742 ug/l

RT: 14.322 min Scan# 4053

Delta R.T. 0.003 min

Lab File: VU061598.D

Acq: 12 Nov 2024 10:21

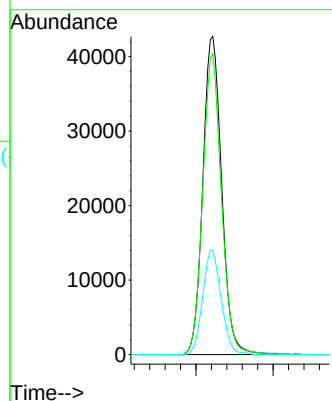
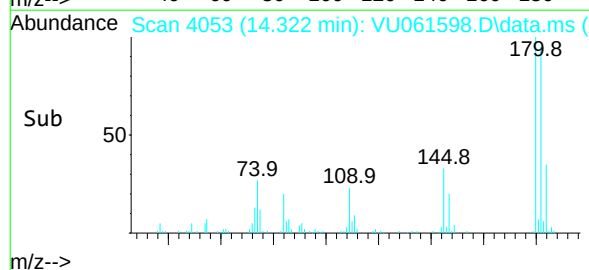
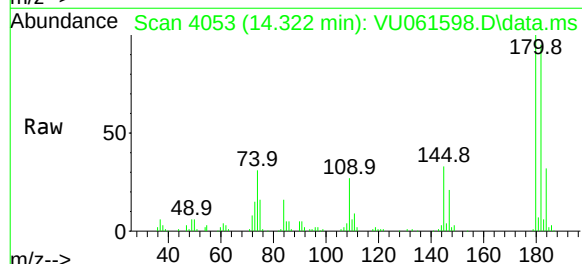
Tgt Ion:180 Resp: 72200

Ion Ratio Lower Upper

180 100

182 93.7 77.9 116.9

145 32.3 25.9 38.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
Data File : VU061599.D
Acq On : 12 Nov 2024 10:46
Operator : MD/SY
Sample : VSTDICCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Quant Time: Nov 13 04:43:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 04:39:24 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

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

Internal Standards						
1) Fluorobenzene	6.107	96	48524	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.624	95	17564	1.043	ug/l	0.00
Spiked Amount	1.000		Recovery	=	104.000%	
68) 1,2-Dichlorobenzene-d4	12.184	152	18442	1.100	ug/l	0.00
Spiked Amount	1.000		Recovery	=	110.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	135251	10.844	ug/l	100
3) Chloromethane	1.519	50	128285	10.755	ug/l	100
4) Vinyl Chloride	1.602	62	145935	10.873	ug/l	100
5) Bromomethane	1.853	94	91613	10.810	ug/l	100
6) Chloroethane	1.930	64	109782	10.113	ug/l	100
7) Trichlorofluoromethane	2.133	101	211257	10.997	ug/l	100
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	112343	10.926	ug/l	100
9) 1,1-Dichloroethene	2.573	96	118619	11.011	ug/l	100
10) Iodomethane	2.715	142	130928	10.249	ug/l	100
11) Allyl Chloride	2.917	41	141614	11.360	ug/l	100
12) Acrylonitrile	3.316	53	50041	23.488	ug/l	100
13) Acetone	2.641	43	143065	48.110	ug/l	100
14) Carbon Disulfide	2.789	76	384670	11.051	ug/l	100
15) Methylene Chloride	3.036	84	141276	10.858	ug/l	100
16) trans-1,2-Dichloroethene	3.345	96	141401	11.299	ug/l	100
17) 1,1-Dichloroethane	3.859	63	247232	11.078	ug/l	100
18) 2-Butanone	4.702	43	184050	53.370	ug/l	100
19) Cyclohexane	5.377	56	206922m	11.428	ug/l	
20) Methylcyclohexane	6.753	83	238878	11.765	ug/l	100
21) 2,2-Dichloropropane	4.653	77	199878	11.136	ug/l	100
22) cis-1,2-Dichloroethene	4.657	96	155146	11.365	ug/l	100
23) Diethyl Ether	2.371	59	88285	10.995	ug/l	100
24) tert-Butyl Alcohol	3.232	59	93887	114.673	ug/l	100
25) Methyl tert-Butyl Ether	3.354	73	300699	11.386	ug/l	100
26) Bromochloromethane	4.962	128	68147	11.331	ug/l	100
27) Chloroform	5.075	83	262493	11.090	ug/l	100
28) 1,1,1-Trichloroethane	5.306	97	223249	11.416	ug/l	100
29) 1,1-Dichloropropene	5.515	75	201045	11.442	ug/l	100
30) Carbon Tetrachloride	5.515	117	193345	11.535	ug/l	100
31) Isopropyl Ether	3.978	45	339200	11.422	ug/l	100
32) Ethyl-t-butyl ether	4.489	59	328314	11.566	ug/l	100
33) Tert-Amyl methyl ether	5.930	73	301352	11.745	ug/l	100
34) Propionitrile	4.782	54	47625	59.094	ug/l	100
35) Benzene	5.763	78	593727	11.338	ug/l	100
36) 1,2-Dichloroethane	5.782	62	161618	11.106	ug/l	100
37) Trichloroethene	6.534	130	156221	11.266	ug/l	100
38) 1,2-Dichloropropane	6.779	63	148934	11.327	ug/l	100
39) Methacrylonitrile	4.965	41	35345	12.253	ug/l	100
40) Methyl acrylate	4.840	55	55926	10.711	ug/l	100
41) Tetrahydrofuran	5.052	42	36543	22.431	ug/l	100
42) 1-Chlorobutane	5.448	56	258015	11.768	ug/l	100
43) Dibromomethane	6.911	93	78675	11.298	ug/l	100
44) Bromodichloromethane	7.094	83	179881	11.439	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061599.D
 Acq On : 12 Nov 2024 10:46
 Operator : MD/SY
 Sample : VSTDICCC010
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICCC010

Quant Time: Nov 13 04:43:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 04:39:24 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.782	43	366790	56.625	ug/l	100
46) t-1,4-Dichloro-2-butene	10.820	75	79185m	22.110	ug/l	
47) Methyl methacrylate	6.952	69	133614	24.176	ug/l	100
48) Ethyl methacrylate	8.325	69	136808	12.177	ug/l	100
49) Toluene	7.959	92	371782	11.626	ug/l	100
50) t-1,3-Dichloropropene	8.200	75	169430	12.041	ug/l	100
51) cis-1,3-Dichloropropene	7.599	75	213061	11.804	ug/l	100
52) 1,1,2-Trichloroethane	8.390	97	107692	11.282	ug/l	100
53) 1,3-Dichloropropane	8.566	76	183304	11.252	ug/l	100
54) 2-Hexanone	8.676	43	292286	52.960	ug/l	100
55) Dibromochloromethane	8.801	129	124480	12.047	ug/l	100
56) 1,2-Dibromoethane	8.914	107	101678	11.334	ug/l	100
58) Tetrachloroethene	8.544	164	138328	11.089	ug/l	100
59) Chlorobenzene	9.438	112	409498	11.591	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.525	131	137519	11.794	ug/l	100
61) Pentachloroethane	11.418	117	108161	12.329	ug/l	100
62) Hexachloroethane	12.467	117	102452	10.672	ug/l	100
63) Ethyl Benzene	9.560	91	705700	11.865	ug/l	100
64) m/p-Xylenes	9.685	106	560984	24.491	ug/l	100
65) o-Xylene	10.091	106	267690	11.985	ug/l	100
66) Styrene	10.107	104	437096	10.704	ug/l	100
67) Bromoform	10.280	173	66422	12.391	ug/l	100
69) Isopropylbenzene	10.476	105	636511	12.184	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.772	83	133521	11.360	ug/l	100
71) 1,2,3-Trichloropropane	10.814	75	105896m	11.056	ug/l	
72) Bromobenzene	10.772	156	163565	11.809	ug/l	100
73) n-propylbenzene	10.898	120	191792	12.418	ug/l	100
74) 2-Chlorotoluene	10.978	126	167636	12.166	ug/l	100
75) 1,3,5-Trimethylbenzene	11.078	105	592328	12.524	ug/l	100
76) 4-Chlorotoluene	11.087	126	177494	12.523	ug/l	100
77) tert-Butylbenzene	11.412	119	576541	12.487	ug/l	100
78) 1,2,4-Trimethylbenzene	11.457	105	601779	10.837	ug/l	100
79) sec-Butylbenzene	11.634	105	758843	12.398	ug/l	100
80) Nitrobenzene	13.203	77	11302m	51.411	ug/l	
81) p-Isopropyltoluene	11.785	119	637166	10.874	ug/l	100
82) 1,3-Dichlorobenzene	11.737	146	324178	12.101	ug/l	100
83) 1,4-Dichlorobenzene	11.827	146	327001	12.194	ug/l	100
84) n-Butylbenzene	12.200	91	585297	10.849	ug/l	100
85) 1,2-Dichlorobenzene	12.203	146	301571	11.927	ug/l	100
86) 1,2-Dibromo-3-Chloropr...	12.988	75	19103	10.477	ug/l	100
87) 1,2,4-Trichlorobenzene	13.830	180	182547	10.446	ug/l	100
88) Hexachlorobutadiene	14.010	225	99148	11.742	ug/l	100
89) Naphthalene	14.078	128	302297	10.229	ug/l	100
90) 1,2,3-Trichlorobenzene	14.319	180	163563	10.245	ug/l	100

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

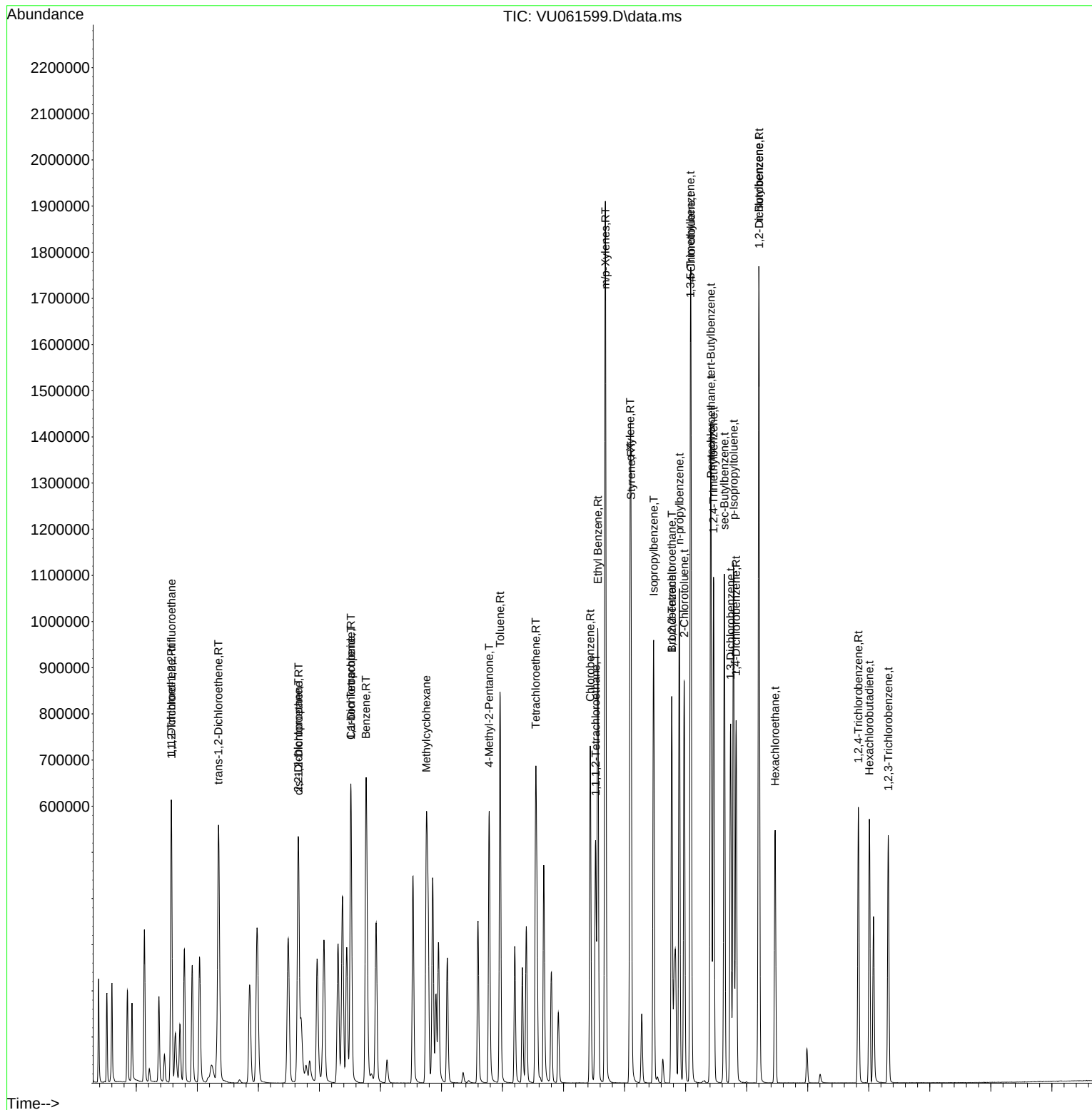
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
Data File : VU061599.D
Acq On : 12 Nov 2024 10:46
Operator : MD/SY
Sample : VSTDICCC010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

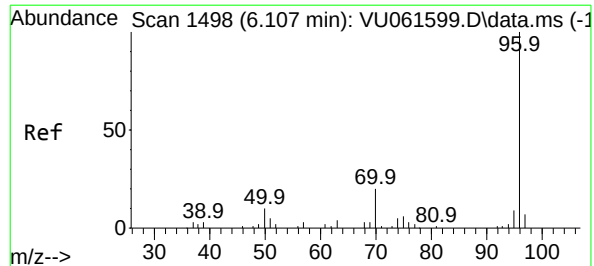
Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024
Supervised By : Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:43:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 04:39:24 2024
Response via : Initial Calibration





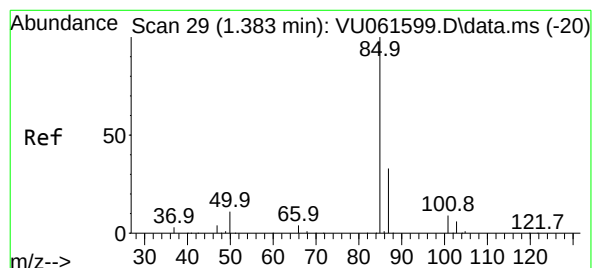
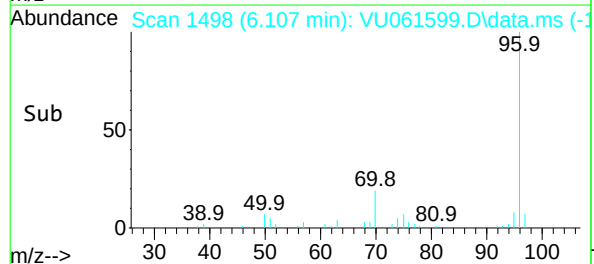
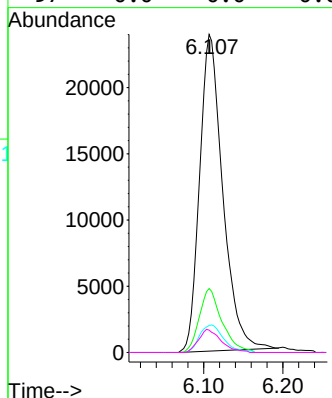
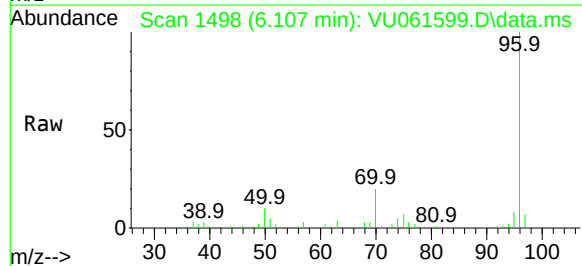
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 1498
Delta R.T. -0.000 min
Lab File: VU061599.D
Acq: 12 Nov 2024 10:46

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
96	100		
70	19.7	15.8	23.6
95	9.1	7.3	10.9
97	0.0	0.0	0.0

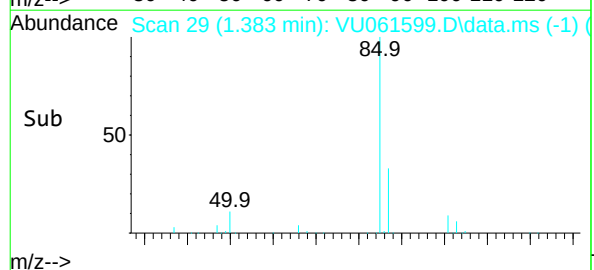
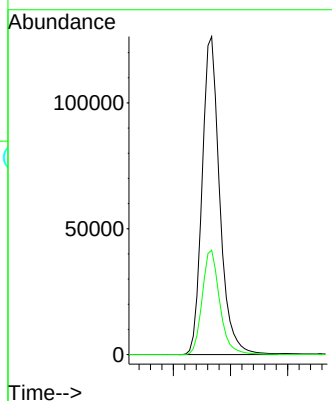
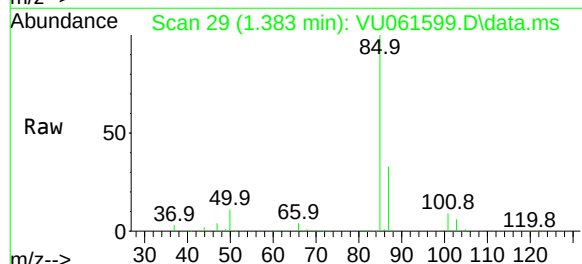
Manual Integrations
APPROVED

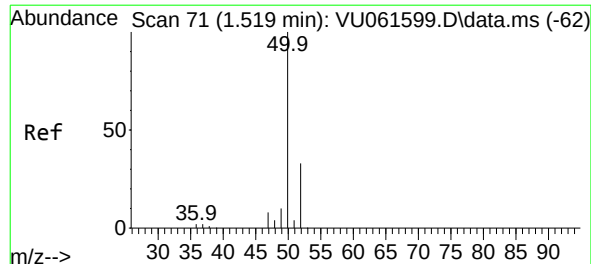
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#2
Dichlorodifluoromethane
Concen: 10.844 ug/l
RT: 1.383 min Scan# 29
Delta R.T. 0.000 min
Lab File: VU061599.D
Acq: 12 Nov 2024 10:46

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.4	49.2





#3

Chloromethane

Concen: 10.755 ug/l

RT: 1.519 min Scan# 71

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 50 Resp: 128285

Ion Ratio Lower Upper

50 100

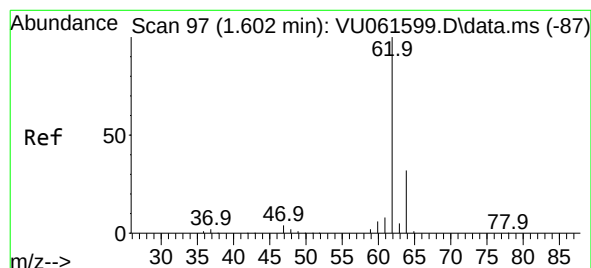
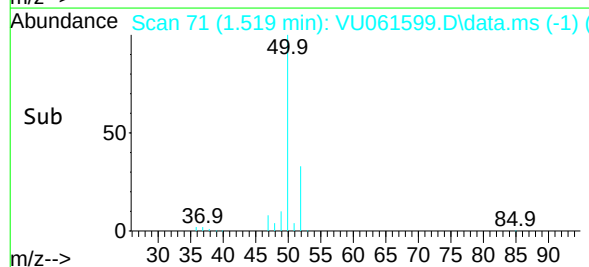
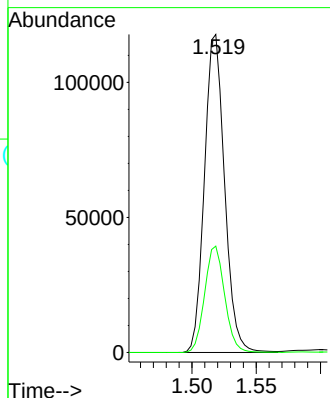
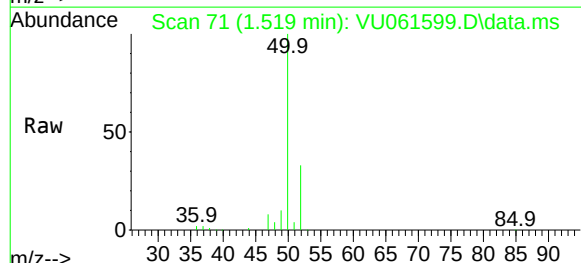
52 33.5 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 10.873 ug/l

RT: 1.602 min Scan# 97

Delta R.T. 0.000 min

Lab File: VU061599.D

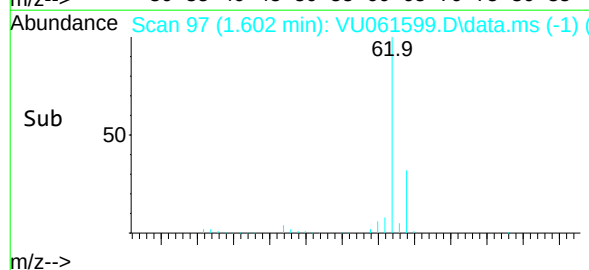
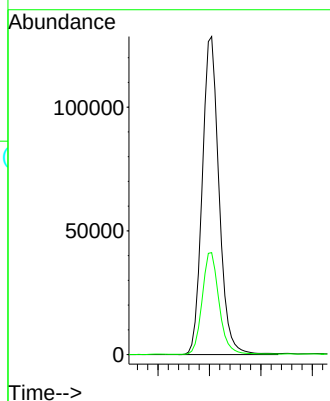
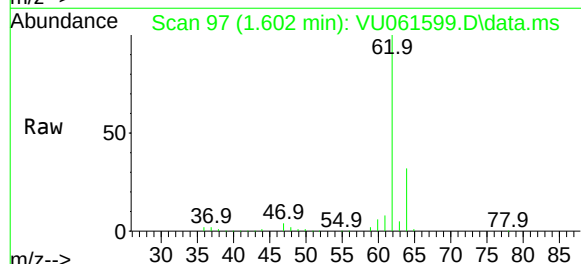
Acq: 12 Nov 2024 10:46

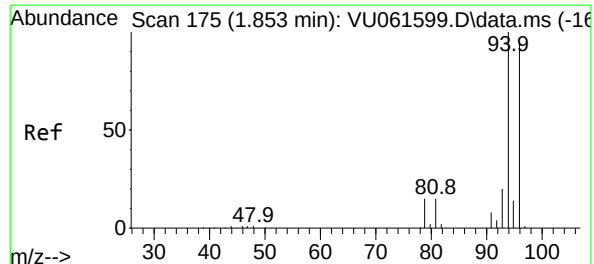
Tgt Ion: 62 Resp: 145935

Ion Ratio Lower Upper

62 100

64 32.0 25.6 38.4





#5

Bromomethane

Concen: 10.810 ug/l

RT: 1.853 min Scan# 175

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 94 Resp: 91613

Ion Ratio Lower Upper

94 100

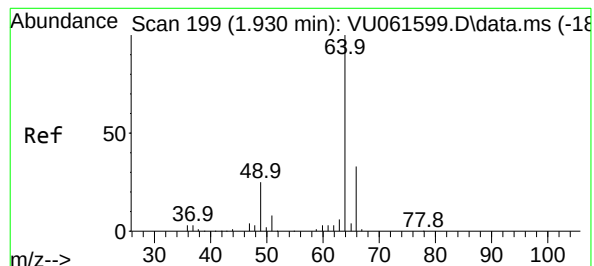
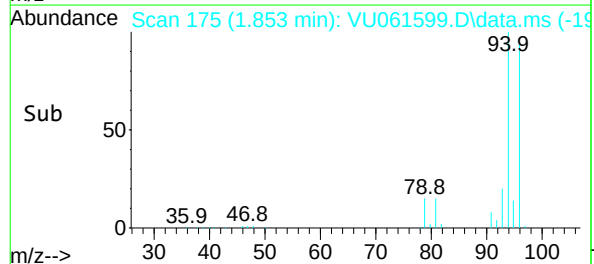
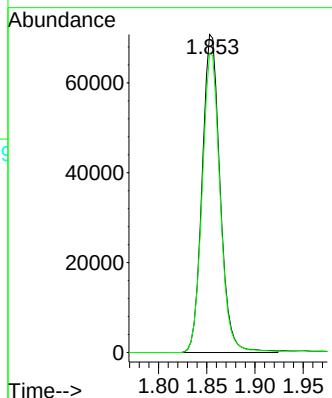
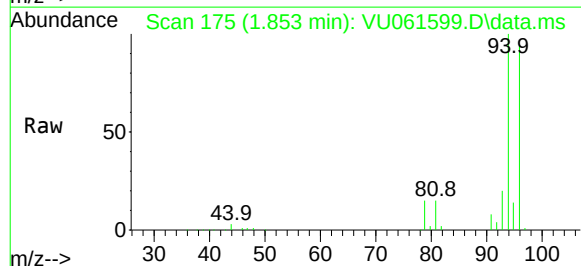
96 94.0 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#6

Chloroethane

Concen: 10.113 ug/l

RT: 1.930 min Scan# 199

Delta R.T. 0.000 min

Lab File: VU061599.D

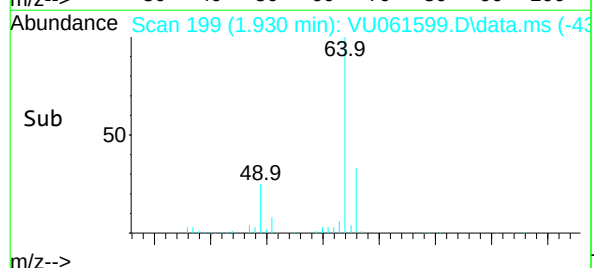
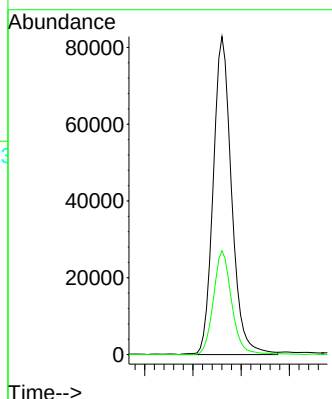
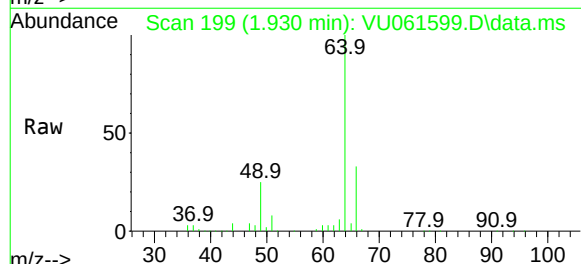
Acq: 12 Nov 2024 10:46

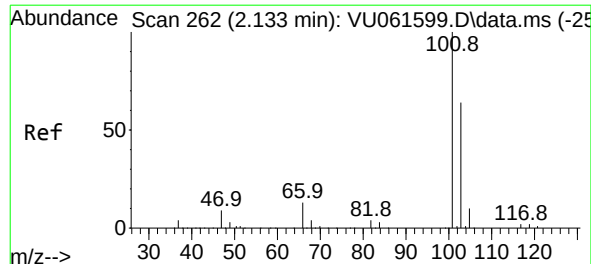
Tgt Ion: 64 Resp: 109782

Ion Ratio Lower Upper

64 100

66 32.7 26.2 39.2





#7

Trichlorofluoromethane

Concen: 10.997 ug/l

RT: 2.133 min Scan# 262

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:101 Resp: 211257

Ion Ratio Lower Upper

101 100

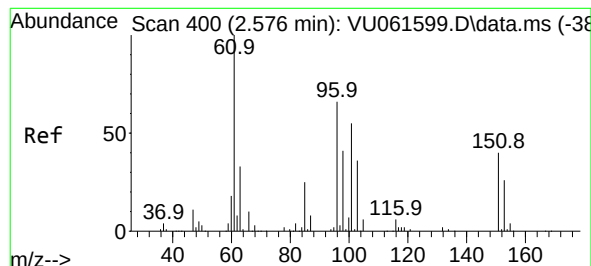
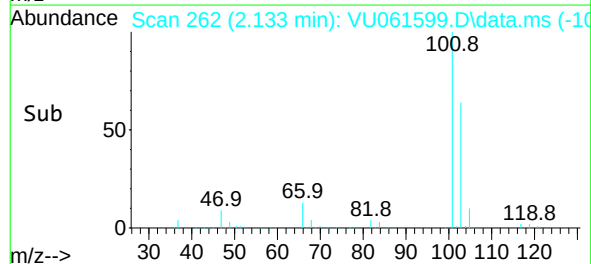
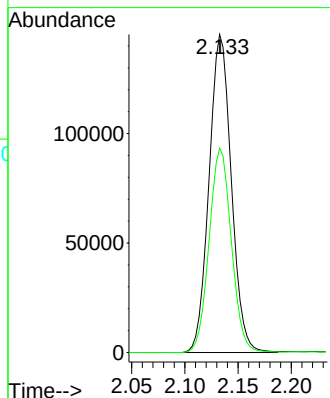
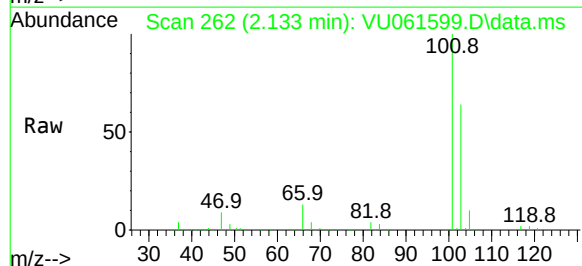
103 64.3 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 10.926 ug/l

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

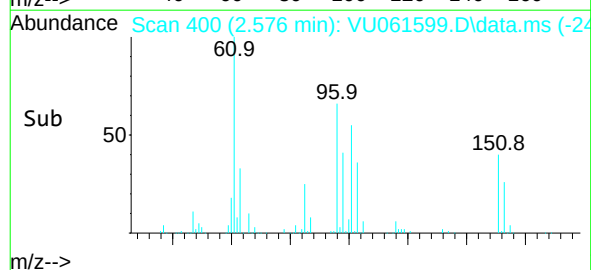
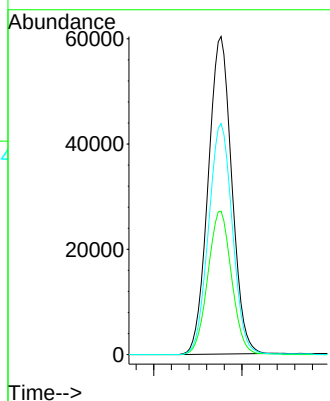
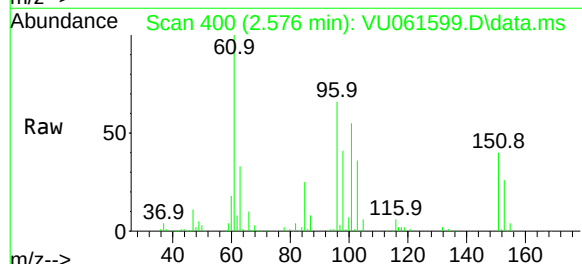
Tgt Ion:101 Resp: 112343

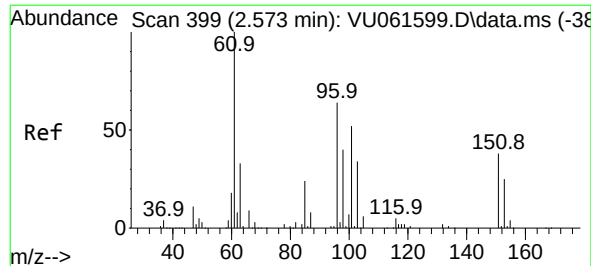
Ion Ratio Lower Upper

101 100

85 45.0 36.0 54.0

151 73.2 58.6 87.8





#9

1,1-Dichloroethene

Concen: 11.011 ug/l

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 96 Resp: 118619

Ion Ratio Lower Upper

96 100

61 155.9 0.0 467.7

98 62.7 0.0 125.4

Instrument :

MSVOA_U

ClientSampleId :

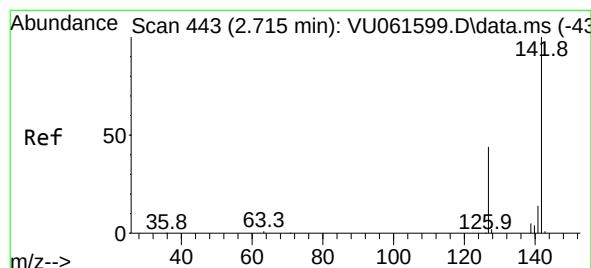
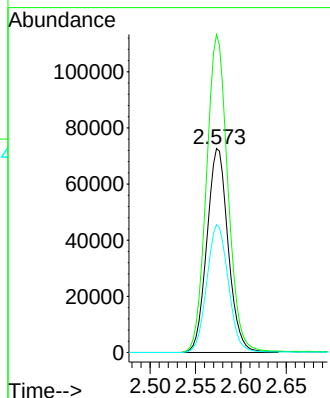
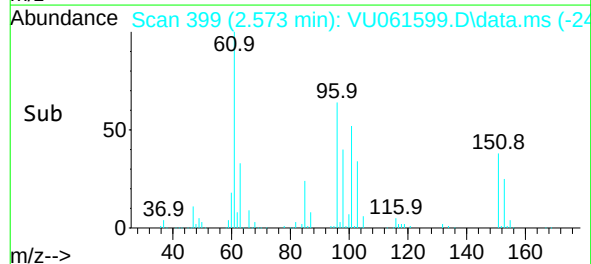
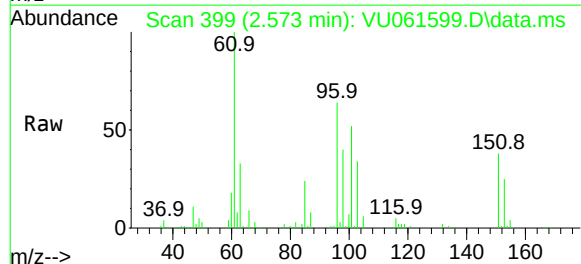
VSTDICCC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#10

Iodomethane

Concen: 10.249 ug/l

RT: 2.715 min Scan# 443

Delta R.T. 0.000 min

Lab File: VU061599.D

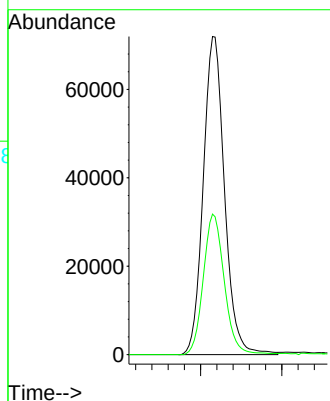
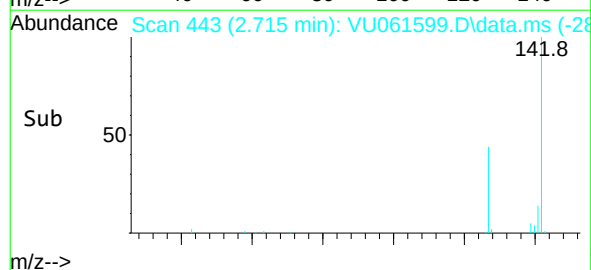
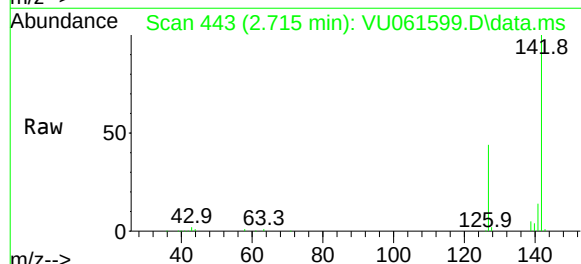
Acq: 12 Nov 2024 10:46

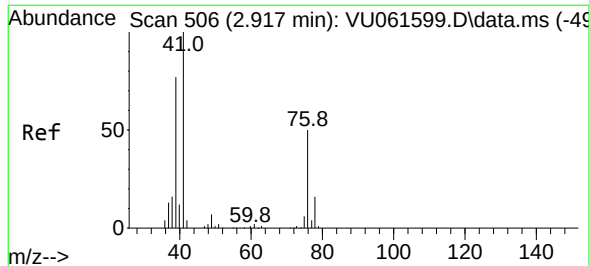
Tgt Ion:142 Resp: 130928

Ion Ratio Lower Upper

142 100

127 43.5 34.8 52.2





#11

Allyl Chloride

Concen: 11.360 ug/l

RT: 2.917 min Scan# 506

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 141614

Ion Ratio Lower Upper

41 100

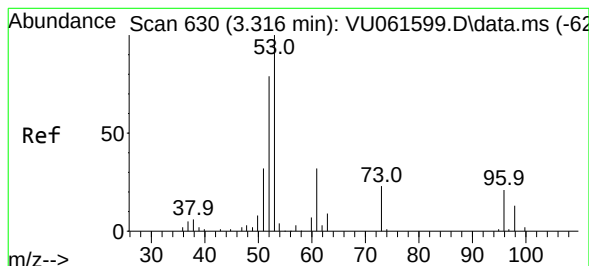
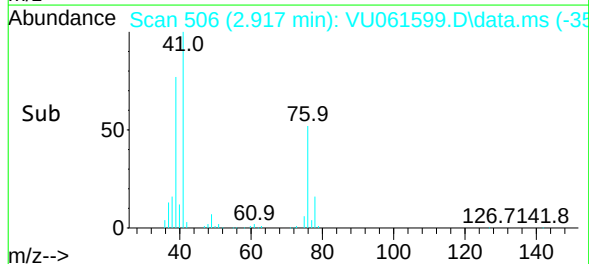
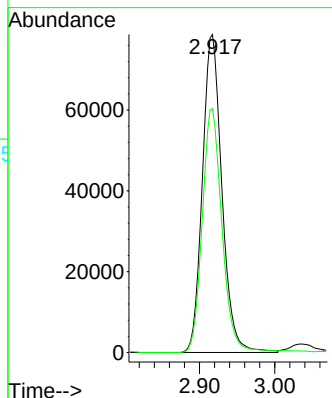
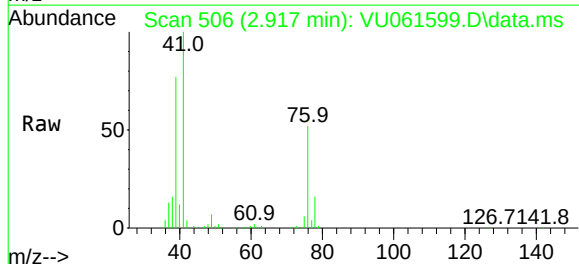
39 77.8 62.2 93.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#12

Acrylonitrile

Concen: 23.488 ug/l

RT: 3.316 min Scan# 630

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

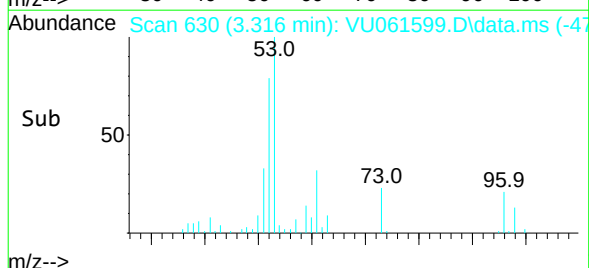
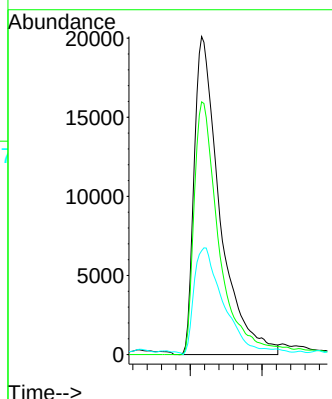
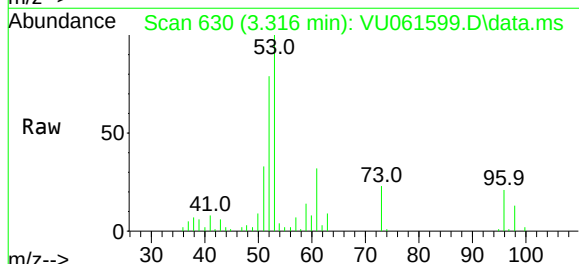
Tgt Ion: 53 Resp: 50041

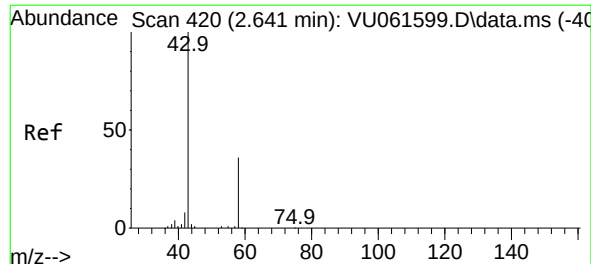
Ion Ratio Lower Upper

53 100

52 77.6 62.1 93.1

51 38.6 30.9 46.3





#13

Acetone

Concen: 48.110 ug/l

RT: 2.641 min Scan# 420

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 43 Resp: 143065

Ion Ratio Lower Upper

43 100

58 35.6 28.5 42.7

Instrument :

MSVOA_U

ClientSampleId :

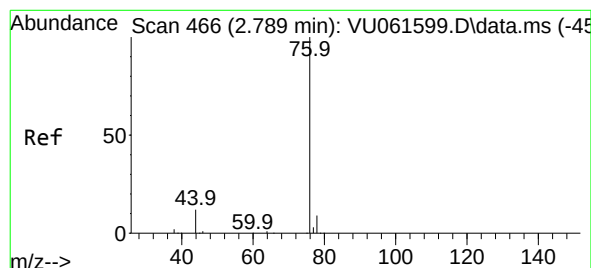
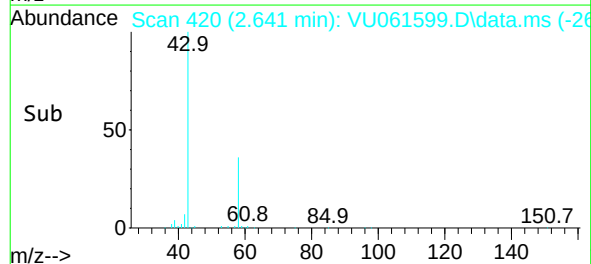
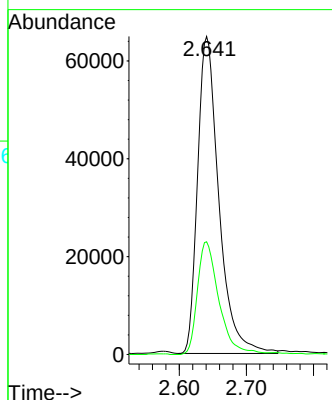
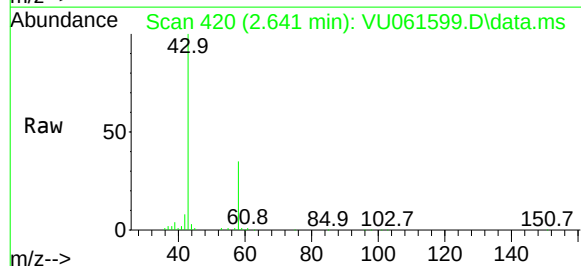
VSTDICCC010

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#14

Carbon Disulfide

Concen: 11.051 ug/l

RT: 2.789 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU061599.D

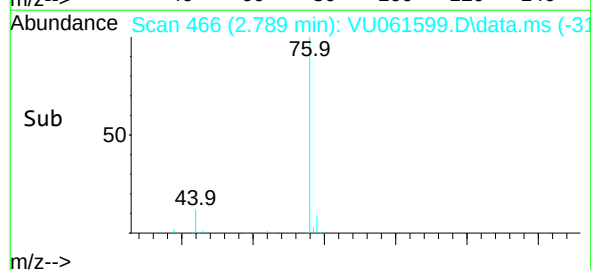
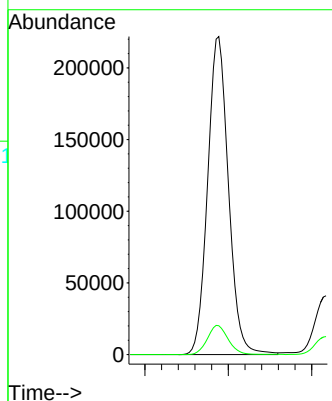
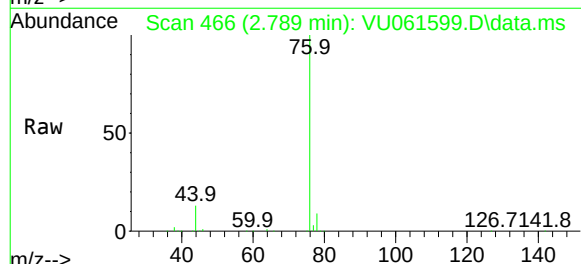
Acq: 12 Nov 2024 10:46

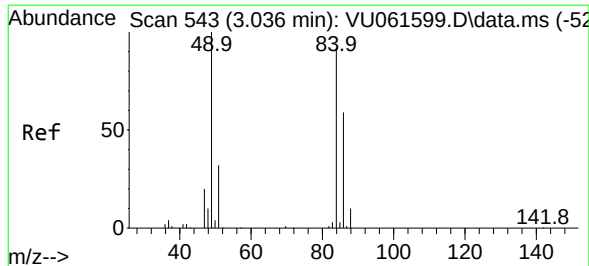
Tgt Ion: 76 Resp: 384670

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#15

Methylene Chloride

Concen: 10.858 ug/l

RT: 3.036 min Scan# 543

Delta R.T. 0.000 min

Lab File: VU061599.D

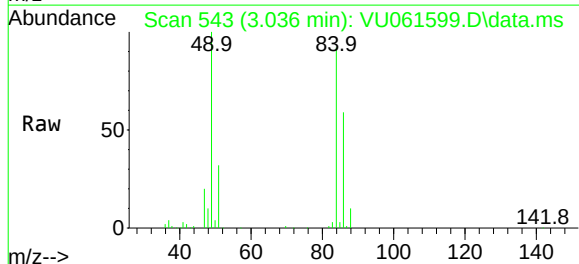
Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010



Tgt Ion: 84 Resp: 141276

Ion Ratio Lower Upper

84 100

49 109.2 87.4 131.0

51 34.8 0.0 69.6

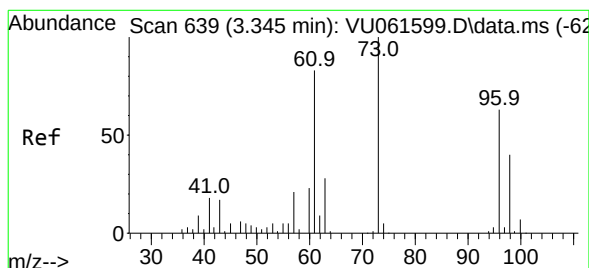
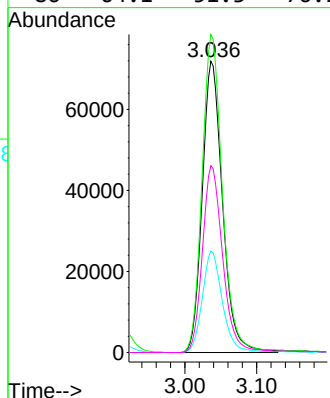
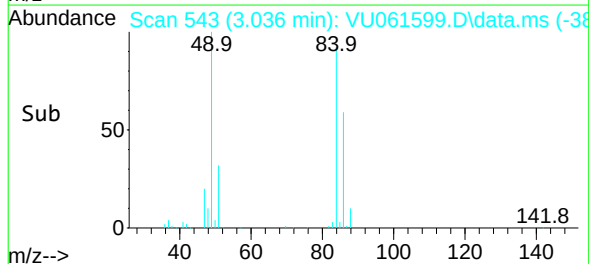
86 64.1 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#16

trans-1,2-Dichloroethene

Concen: 11.299 ug/l

RT: 3.345 min Scan# 639

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

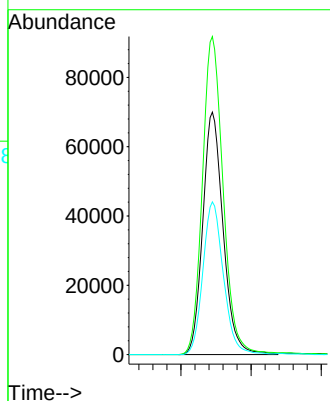
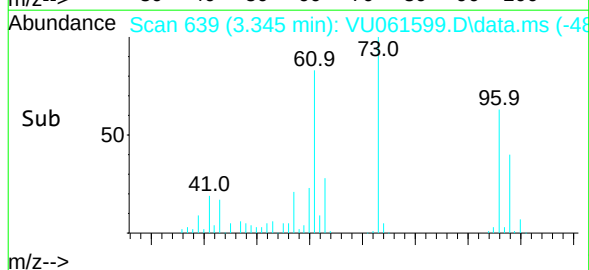
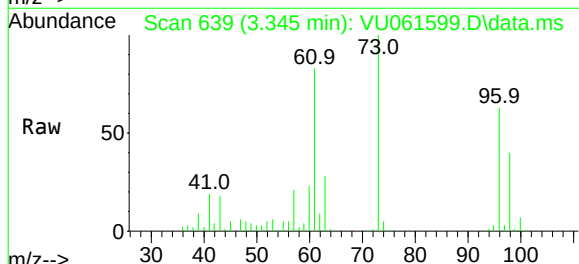
Tgt Ion: 96 Resp: 141401

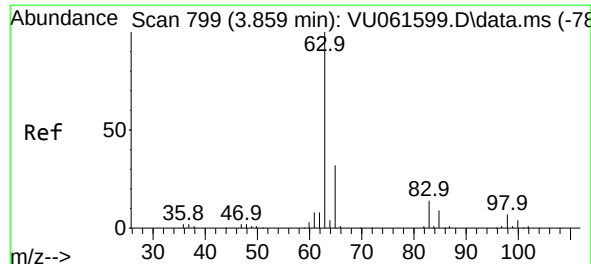
Ion Ratio Lower Upper

96 100

61 131.2 105.0 157.4

98 63.0 50.4 75.6





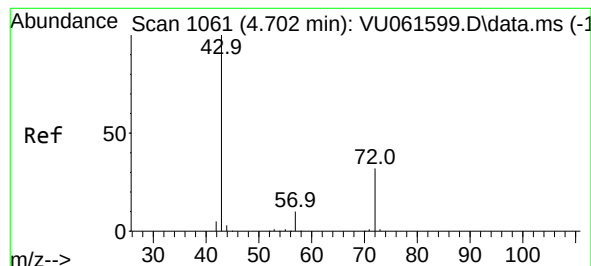
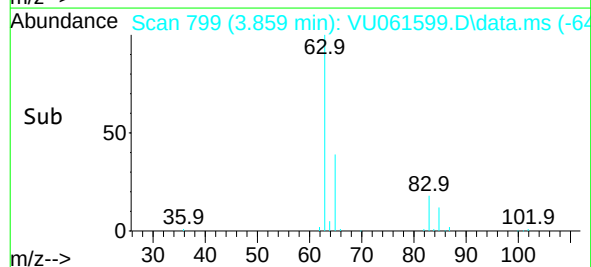
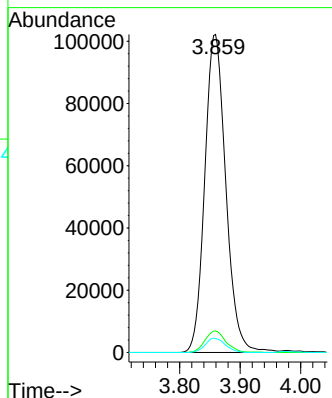
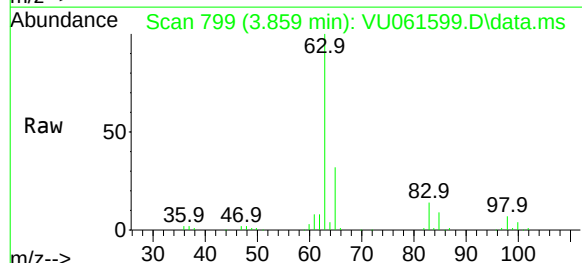
#17
1,1-Dichloroethane
Concen: 11.078 ug/l
RT: 3.859 min Scan# 799
Delta R.T. 0.000 min
Lab File: VU061599.D
Acq: 12 Nov 2024 10:46

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tgt Ion: 63 Resp: 247232
Ion Ratio Lower Upper
63 100
98 6.8 3.4 10.2
100 4.4 2.2 6.6

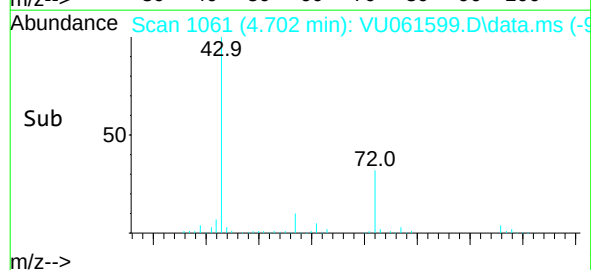
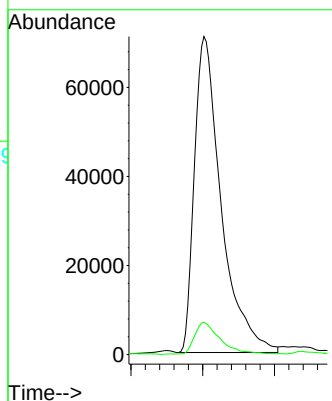
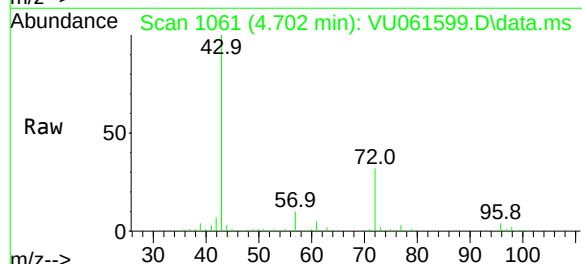
Manual Integrations
APPROVED

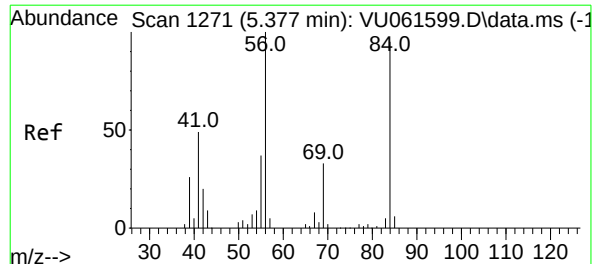
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#18
2-Butanone
Concen: 53.370 ug/l
RT: 4.702 min Scan# 1061
Delta R.T. 0.000 min
Lab File: VU061599.D
Acq: 12 Nov 2024 10:46

Tgt Ion: 43 Resp: 184050
Ion Ratio Lower Upper
43 100
57 10.0 0.0 20.0





#19

Cyclohexane

Concen: 11.428 ug/l m

RT: 5.377 min Scan# 1271

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 56 Resp: 206922

Ion Ratio Lower Upper

56 100

69 32.9 26.3 39.5

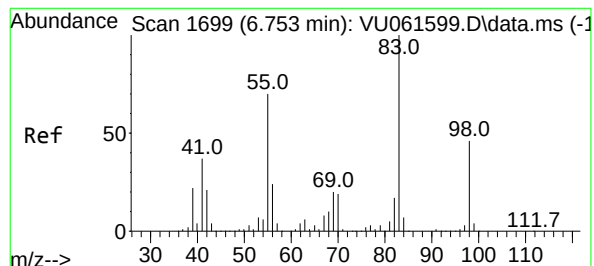
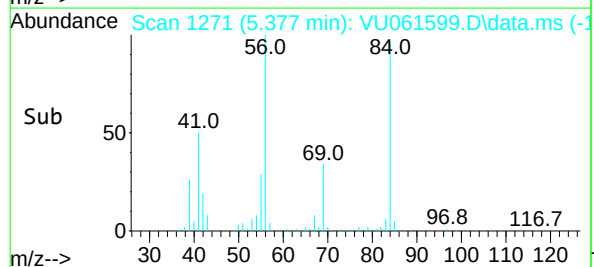
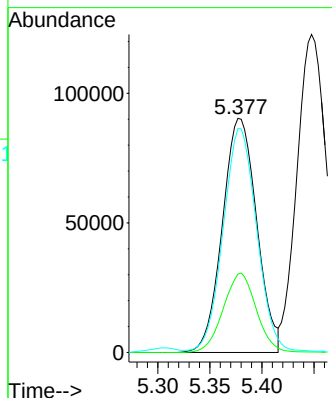
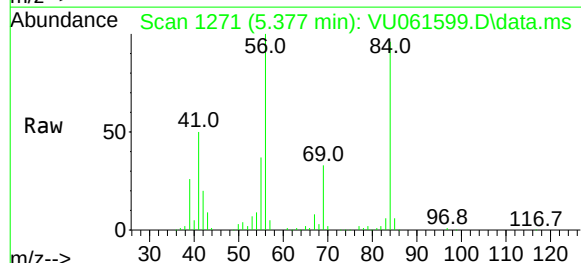
84 91.8 73.4 110.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#20

Methylcyclohexane

Concen: 11.765 ug/l

RT: 6.753 min Scan# 1699

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

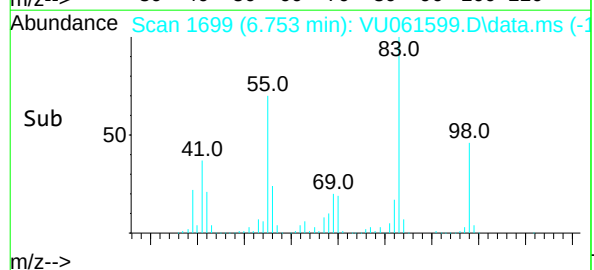
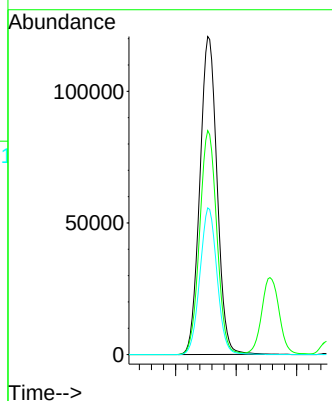
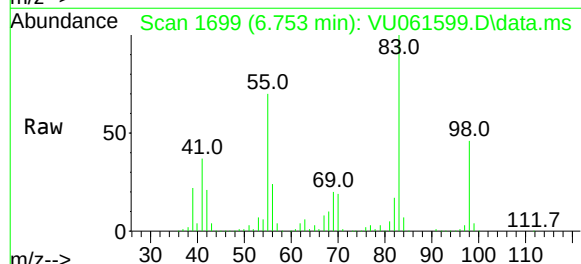
Tgt Ion: 83 Resp: 238878

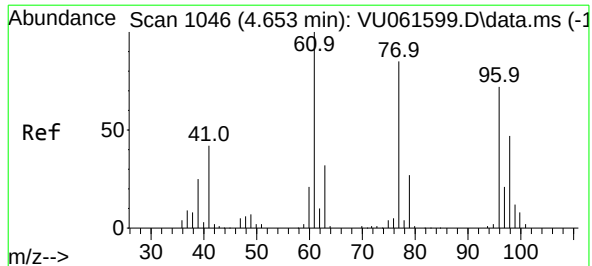
Ion Ratio Lower Upper

83 100

55 69.4 55.5 83.3

98 46.0 36.8 55.2





#21

2,2-Dichloropropane

Concen: 11.136 ug/l

RT: 4.653 min Scan# 1046

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 77 Resp: 199878

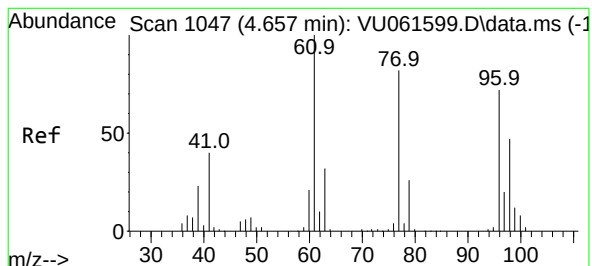
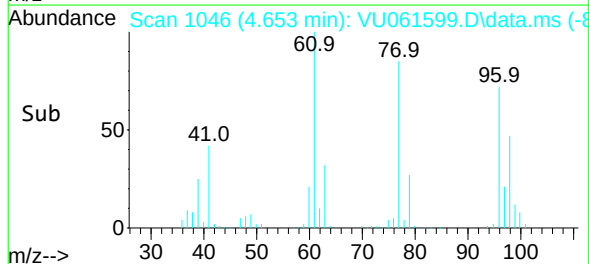
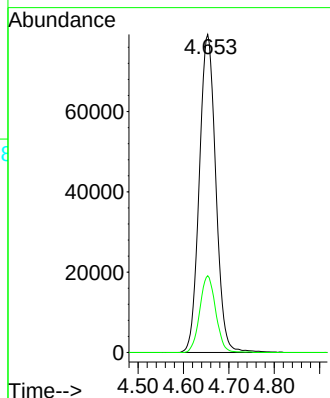
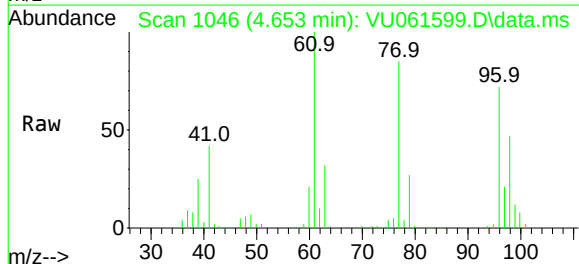
Ion Ratio Lower Upper

77 100

97 23.3 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#22

cis-1,2-Dichloroethene

Concen: 11.365 ug/l

RT: 4.657 min Scan# 1047

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

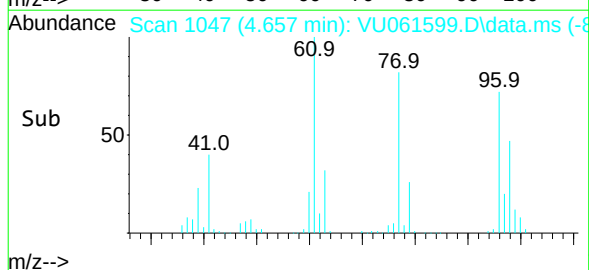
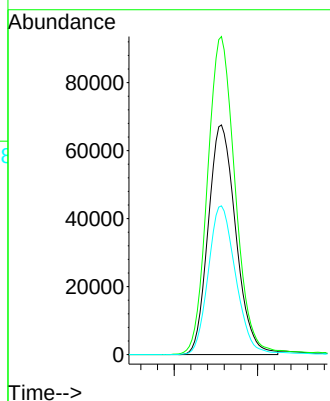
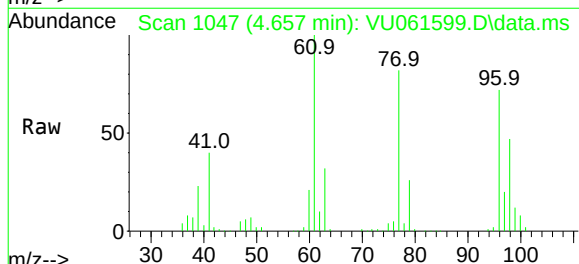
Tgt Ion: 96 Resp: 155146

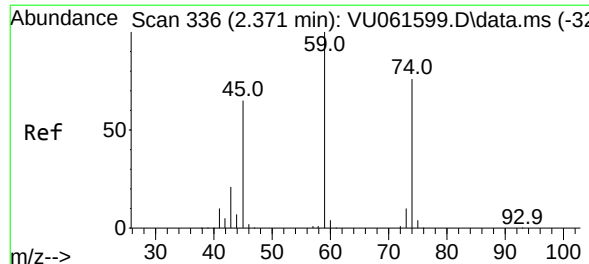
Ion Ratio Lower Upper

96 100

61 139.8 0.0 349.5

98 65.0 32.5 97.5





#23

Diethyl Ether

Concen: 10.995 ug/l

RT: 2.371 min Scan# 336

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

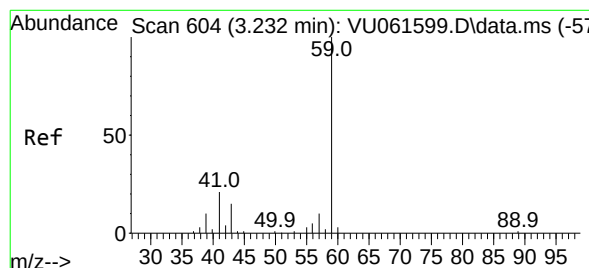
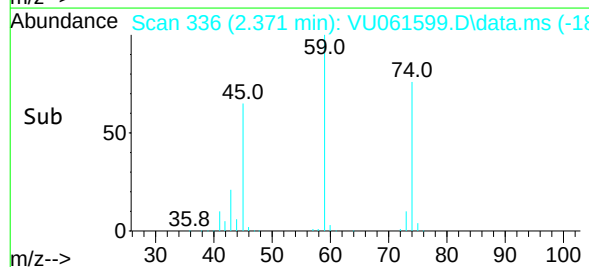
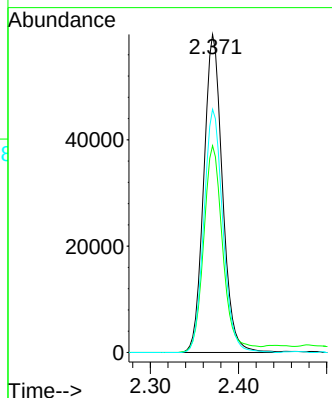
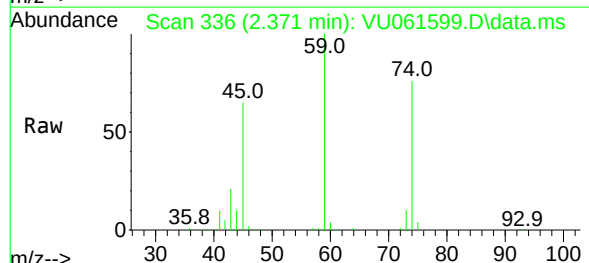
ClientSampleId :

VSTDICCC010

Tgt Ion:	59	Resp:	88285
Ion	Ratio	Lower	Upper
59	100		
45	67.2	53.8	80.6
74	77.6	62.1	93.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#24

tert-Butyl Alcohol

Concen: 114.673 ug/l

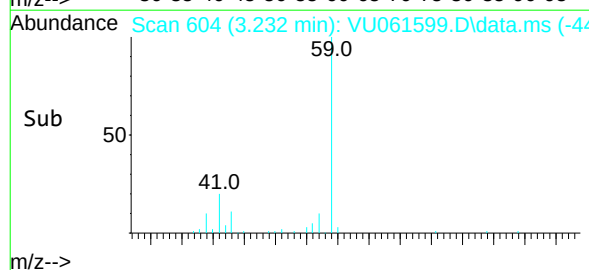
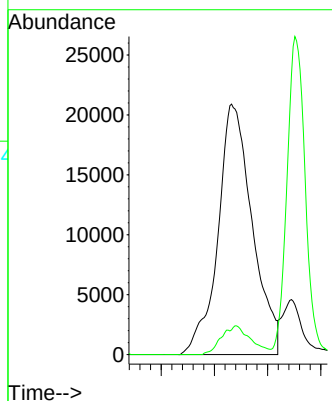
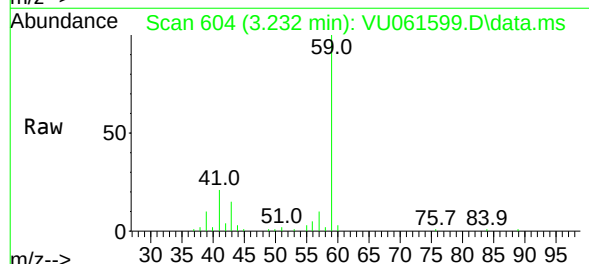
RT: 3.232 min Scan# 604

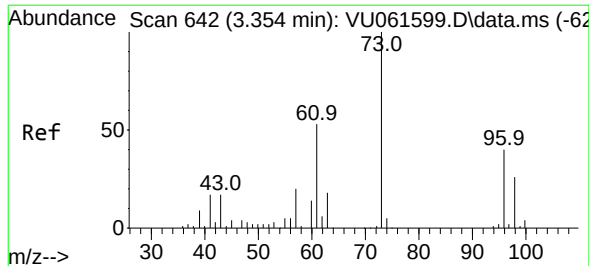
Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:	59	Resp:	93887
Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.9	11.9





#25

Methyl tert-Butyl Ether

Concen: 11.386 ug/l

RT: 3.354 min Scan# 642

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 73 Resp: 300699

Ion Ratio Lower Upper

73 100

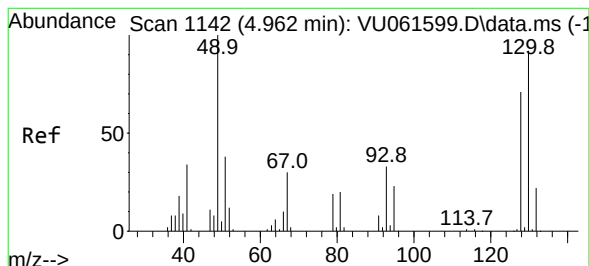
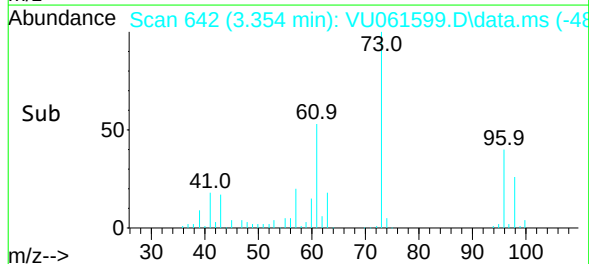
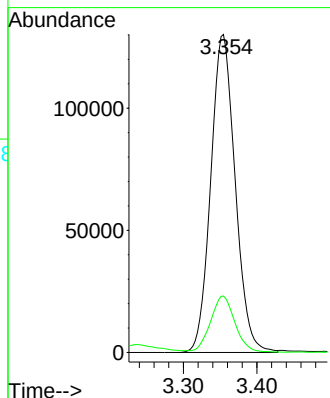
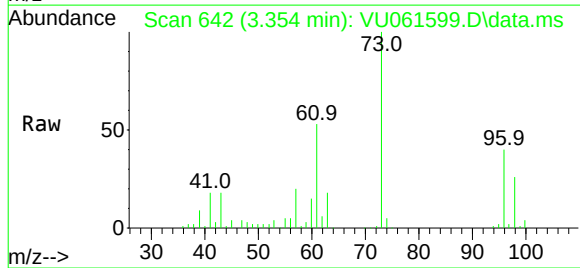
43 17.7 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#26

Bromochloromethane

Concen: 11.331 ug/l

RT: 4.962 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

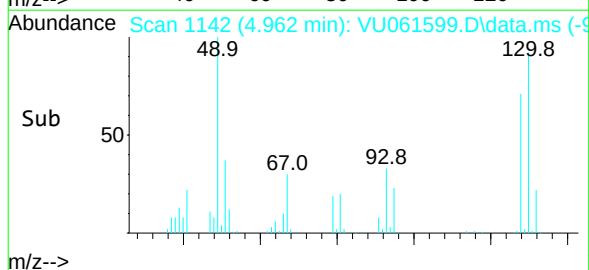
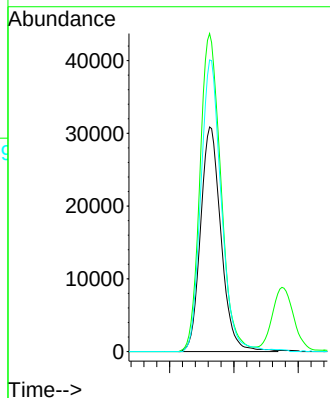
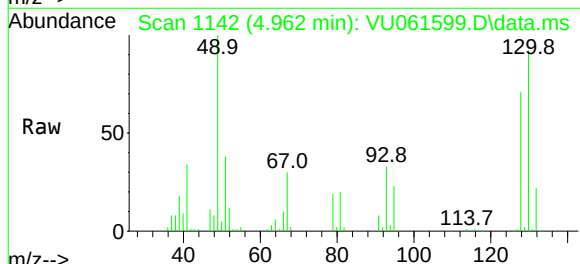
Tgt Ion:128 Resp: 68147

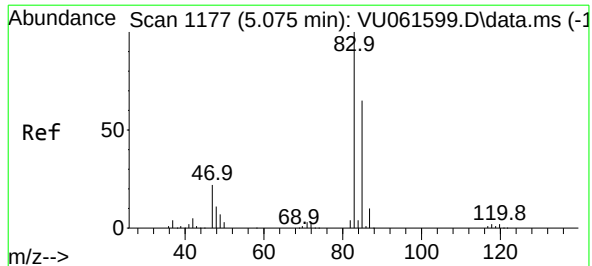
Ion Ratio Lower Upper

128 100

49 144.4 0.0 288.8

130 129.5 103.6 155.4





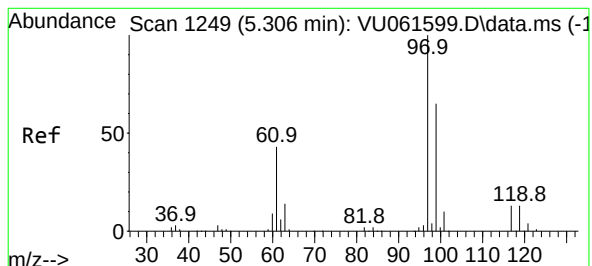
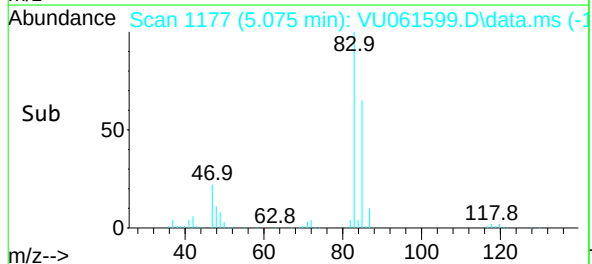
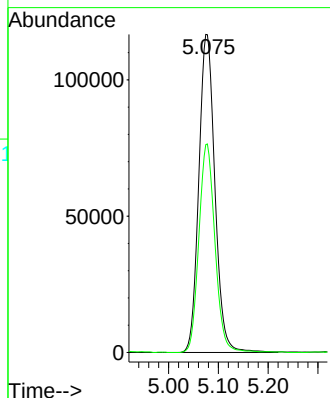
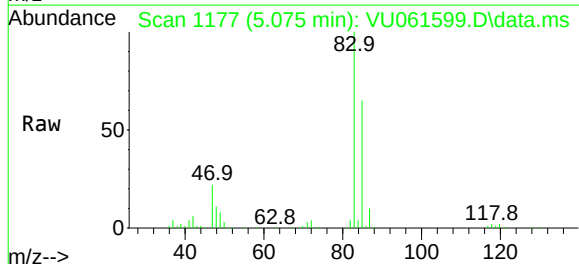
#27
Chloroform
Concen: 11.090 ug/l
RT: 5.075 min Scan# 1177
Delta R.T. 0.000 min
Lab File: VU061599.D
Acq: 12 Nov 2024 10:46

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 262493
Ion Ratio Lower Upper
83 100
85 65.3 0.0 130.6

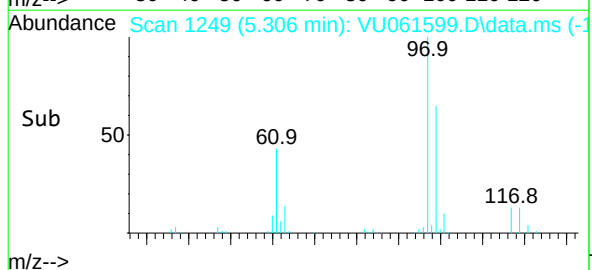
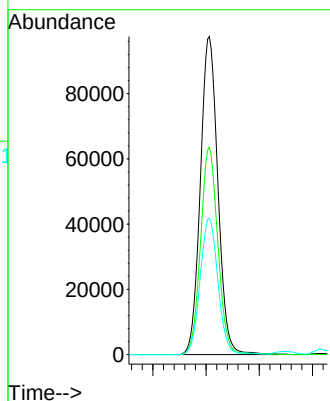
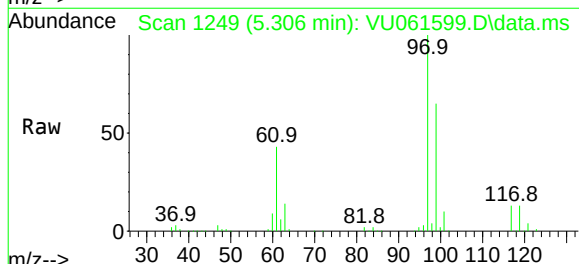
Manual Integrations
APPROVED

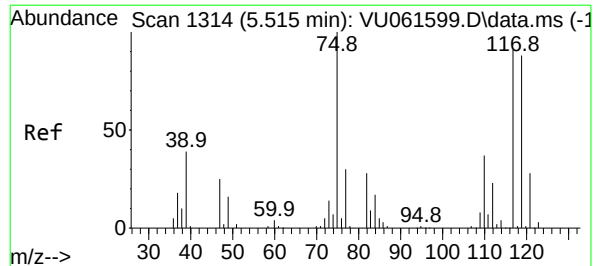
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#28
1,1,1-Trichloroethane
Concen: 11.416 ug/l
RT: 5.306 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VU061599.D
Acq: 12 Nov 2024 10:46

Tgt Ion: 97 Resp: 223249
Ion Ratio Lower Upper
97 100
99 64.3 32.1 96.5
61 43.4 21.7 65.1





#29

1,1-Dichloropropene

Concen: 11.442 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 201045

Ion Ratio Lower Upper

75 100

110 35.9 17.9 53.8

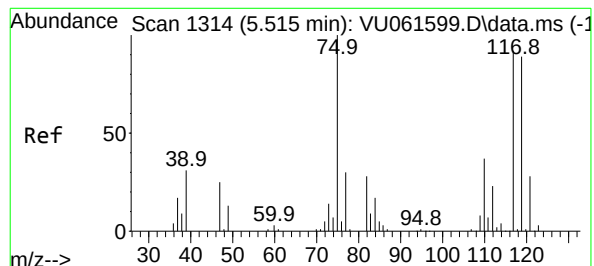
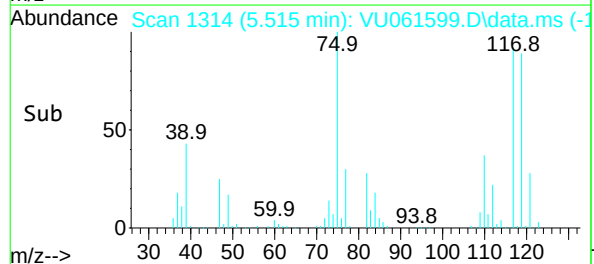
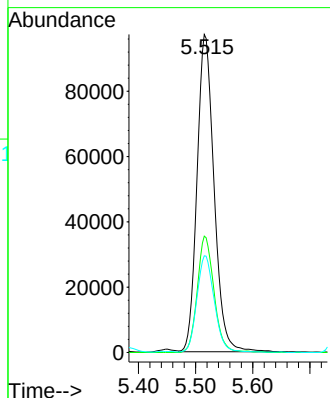
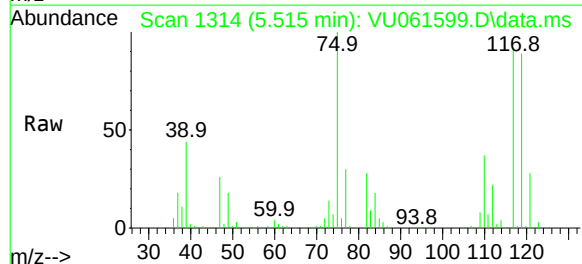
77 31.0 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 11.535 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

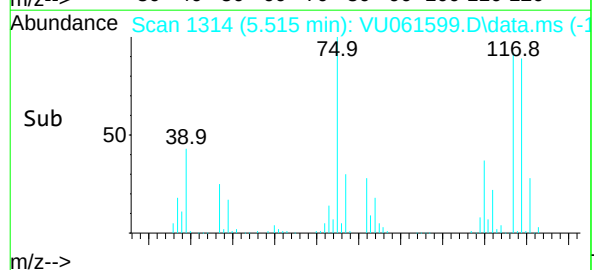
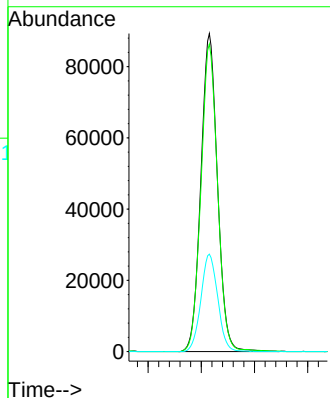
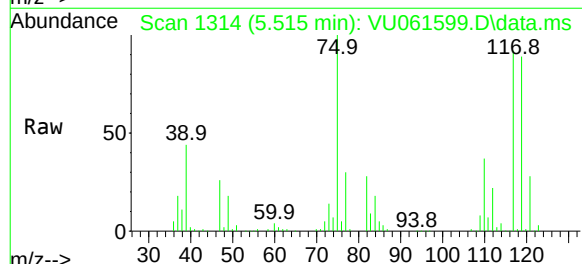
Tgt Ion:117 Resp: 193345

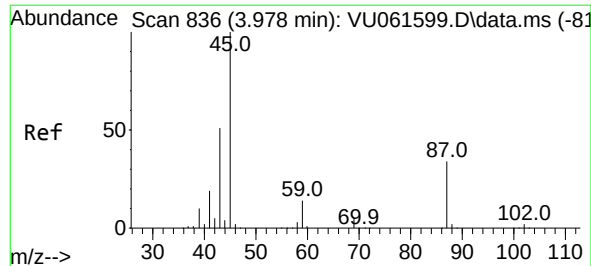
Ion Ratio Lower Upper

117 100

119 96.7 77.4 116.0

121 30.6 24.5 36.7





#31

Isopropyl Ether

Concen: 11.422 ug/l

RT: 3.978 min Scan# 836

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 45 Resp: 339200

Ion Ratio Lower Upper

45 100

43 51.5 25.8 77.3

Instrument :

MSVOA_U

ClientSampleId :

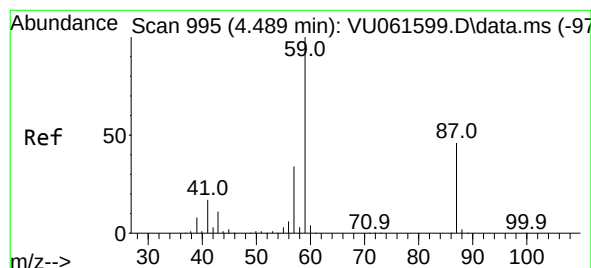
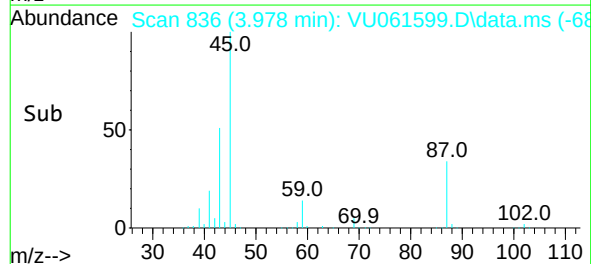
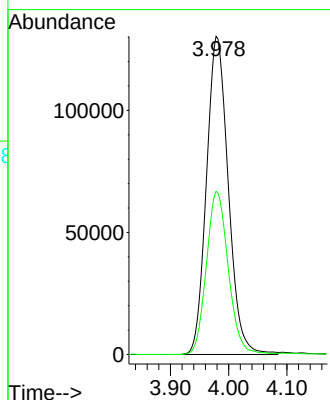
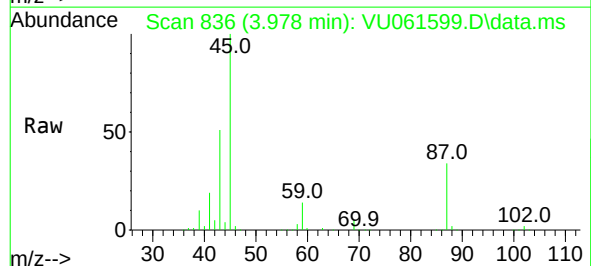
VSTDICCC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#32

Ethyl-t-butyl ether

Concen: 11.566 ug/l

RT: 4.489 min Scan# 995

Delta R.T. 0.000 min

Lab File: VU061599.D

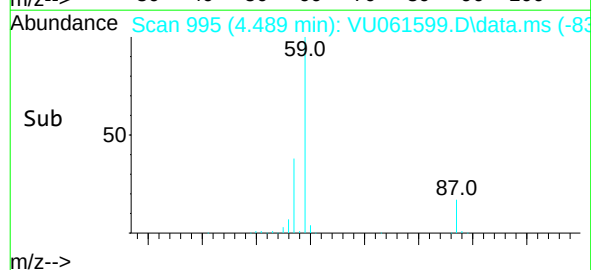
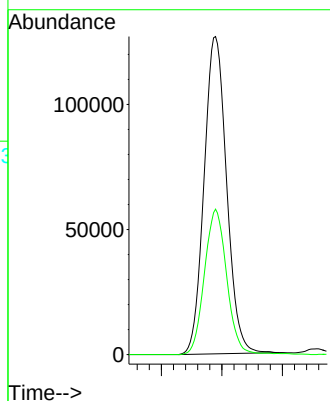
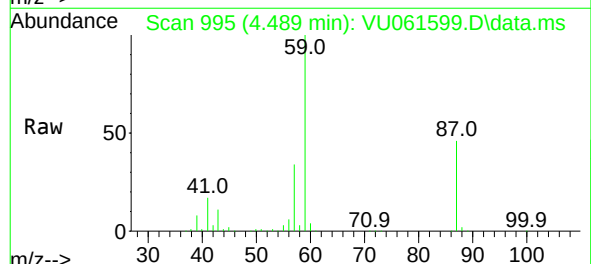
Acq: 12 Nov 2024 10:46

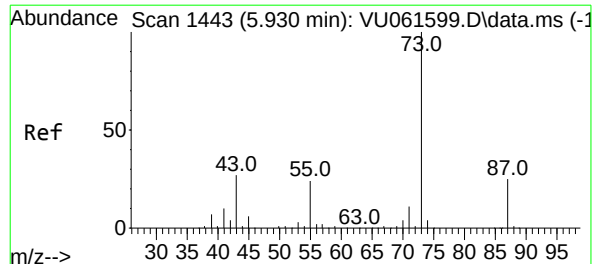
Tgt Ion: 59 Resp: 328314

Ion Ratio Lower Upper

59 100

87 44.4 35.5 53.3





#33

Tert-Amyl methyl ether

Concen: 11.745 ug/l

RT: 5.930 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

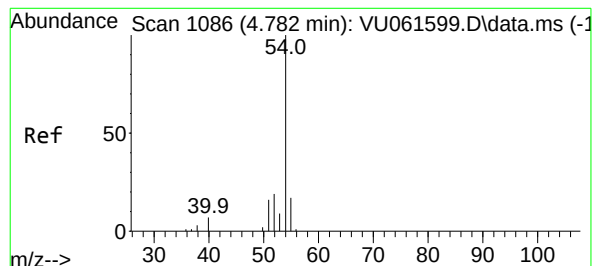
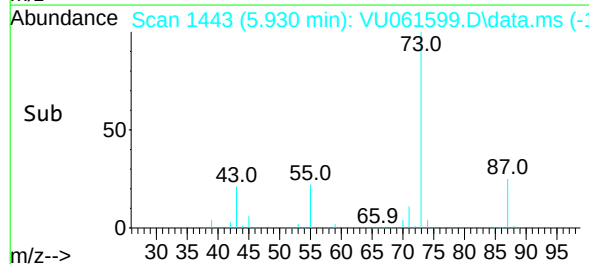
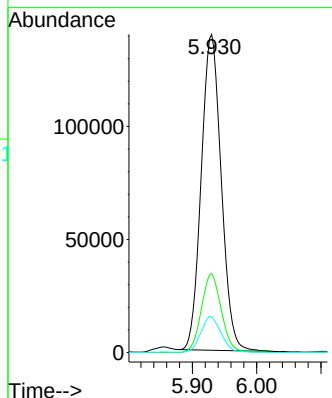
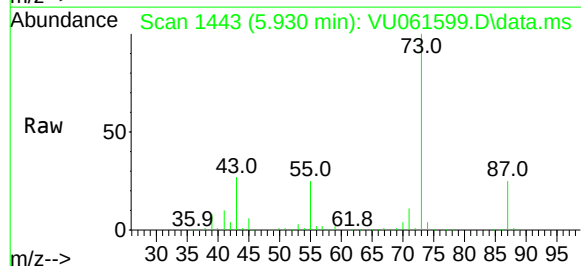
ClientSampleId :

VSTDICCC010

Tgt Ion: 73	Resp: 301352
Ion Ratio	Lower Upper
73	100
87	24.7 19.8 29.6
71	11.2 9.0 13.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#34

Propionitrile

Concen: 59.094 ug/l

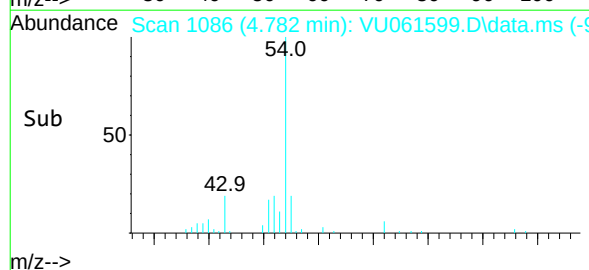
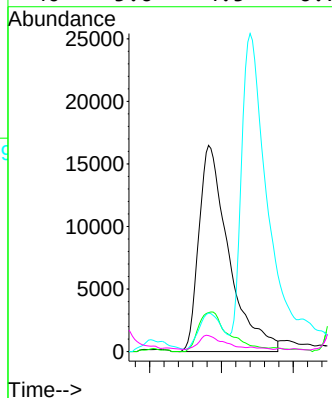
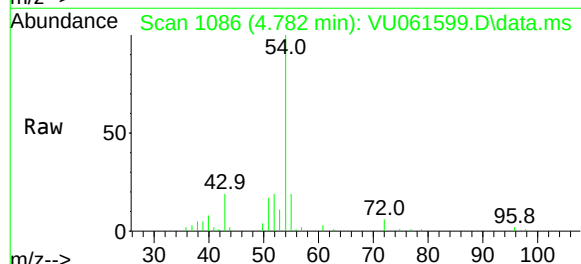
RT: 4.782 min Scan# 1086

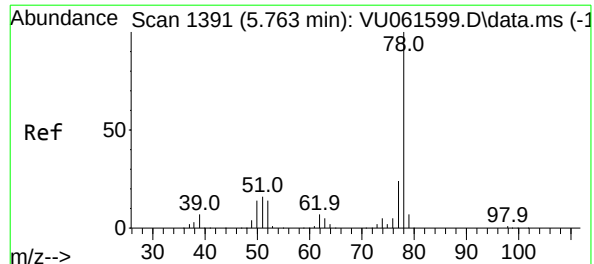
Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 54	Resp: 47625
Ion Ratio	Lower Upper
54	100
52	19.8 15.8 23.8
55	13.4 10.7 16.1
40	5.6 4.5 6.7





#35

Benzene

Concen: 11.338 ug/l

RT: 5.763 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 78 Resp: 593727

Ion Ratio Lower Upper

78 100

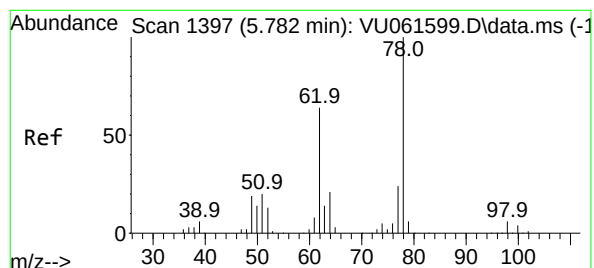
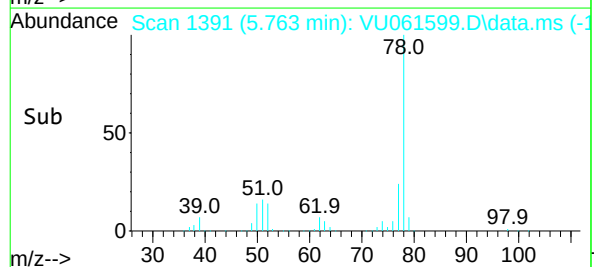
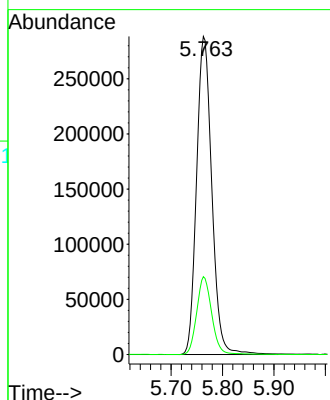
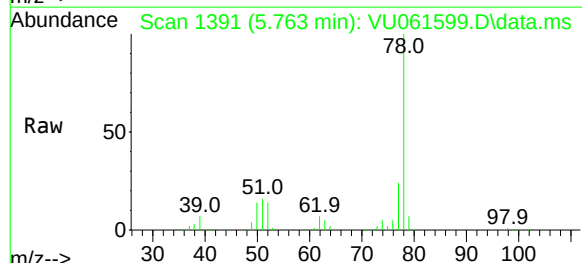
77 24.5 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#36

1,2-Dichloroethane

Concen: 11.106 ug/l

RT: 5.782 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VU061599.D

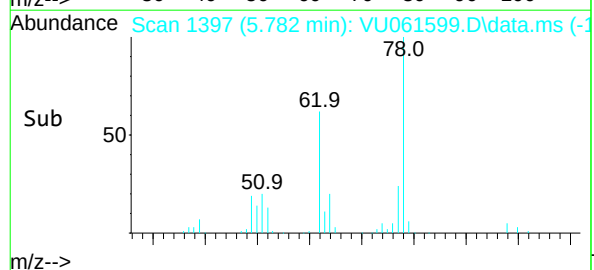
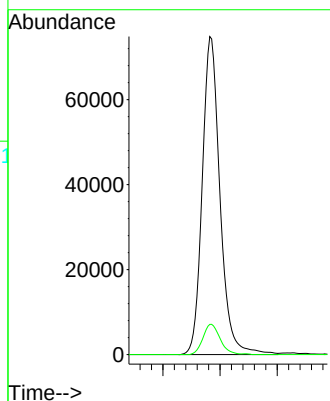
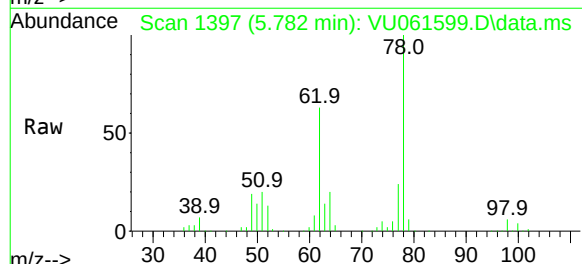
Acq: 12 Nov 2024 10:46

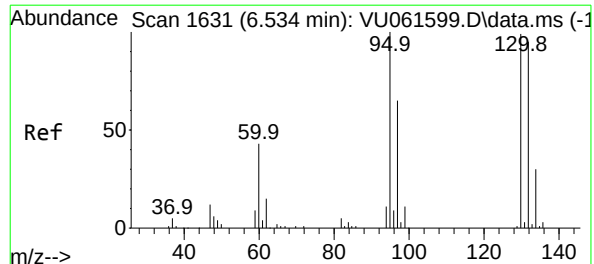
Tgt Ion: 62 Resp: 161618

Ion Ratio Lower Upper

62 100

98 9.2 7.4 11.0





#37

Trichloroethene

Concen: 11.266 ug/l

RT: 6.534 min Scan# 1631

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:130 Resp: 156221

Ion Ratio Lower Upper

130 100

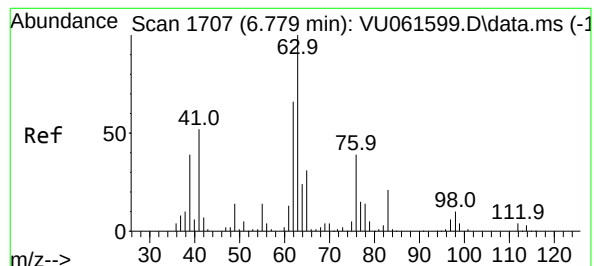
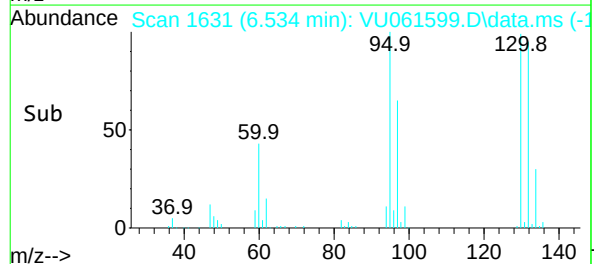
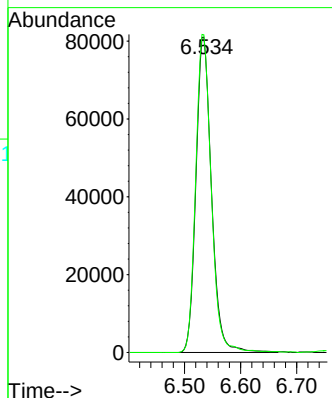
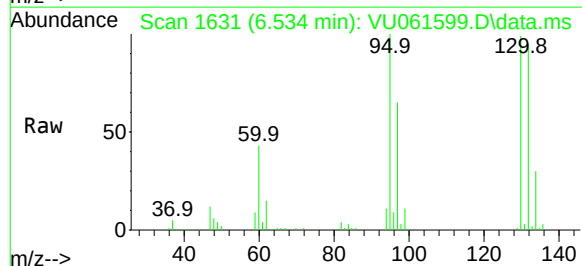
95 100.7 80.6 120.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#38

1,2-Dichloropropane

Concen: 11.327 ug/l

RT: 6.779 min Scan# 1707

Delta R.T. 0.000 min

Lab File: VU061599.D

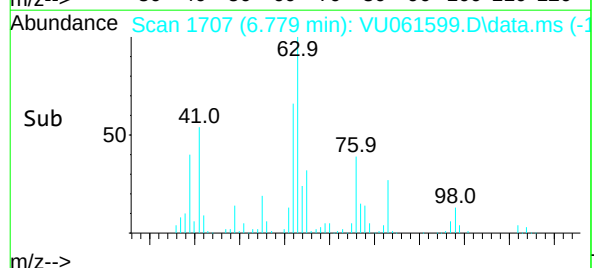
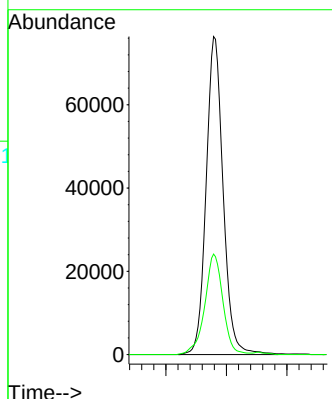
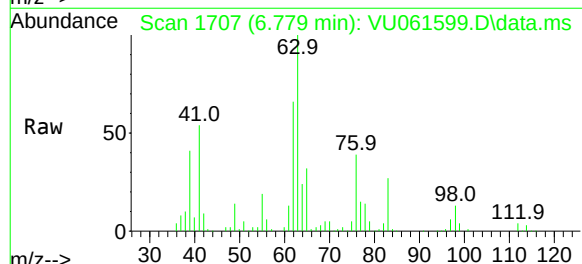
Acq: 12 Nov 2024 10:46

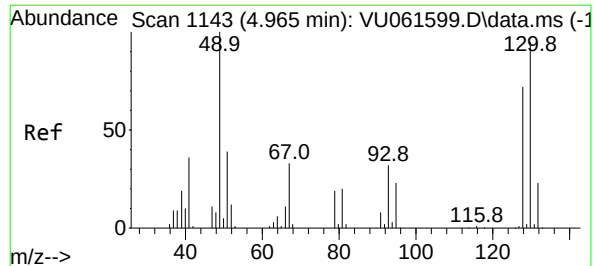
Tgt Ion: 63 Resp: 148934

Ion Ratio Lower Upper

63 100

65 31.6 25.3 37.9





#39

Methacrylonitrile

Concen: 12.253 ug/l

RT: 4.965 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 35345

Ion Ratio Lower Upper

41 100

67 97.0 77.6 116.4

39 54.9 43.9 65.9

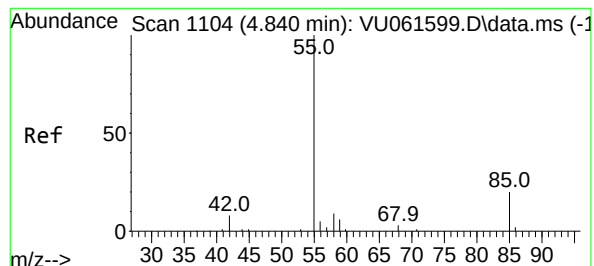
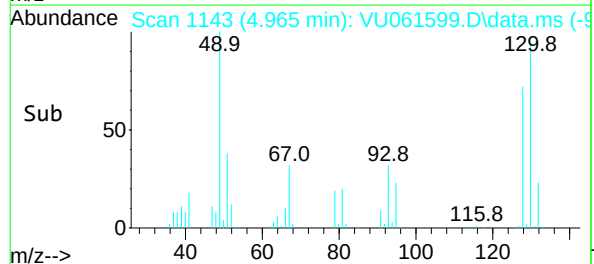
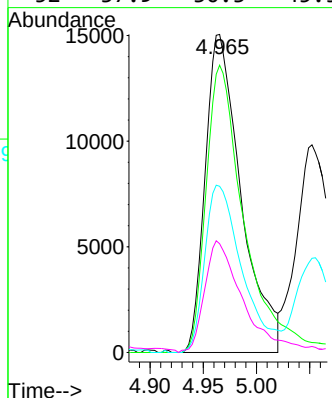
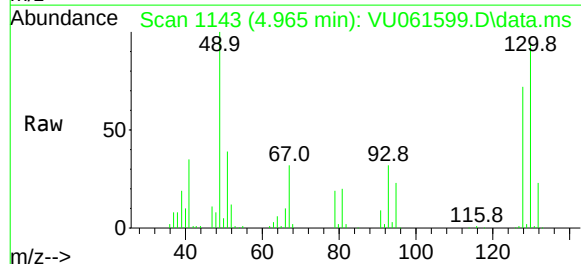
52 37.9 30.3 45.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#40

Methyl acrylate

Concen: 10.711 ug/l

RT: 4.840 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 55 Resp: 55926

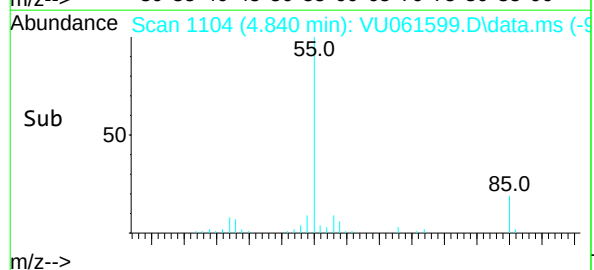
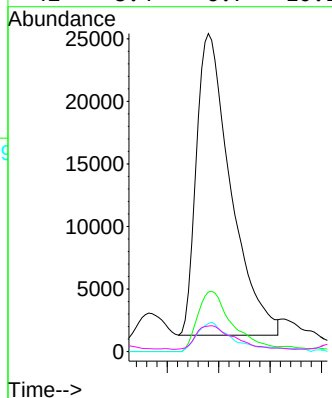
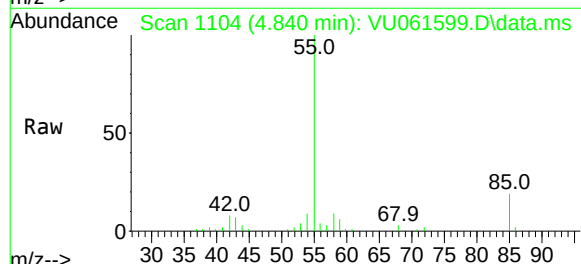
Ion Ratio Lower Upper

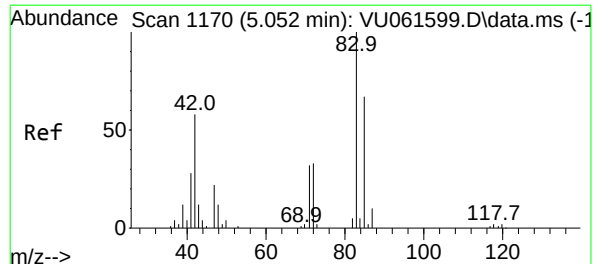
55 100

85 20.6 16.5 24.7

58 9.5 7.6 11.4

42 8.4 6.7 10.1





#41

Tetrahydrofuran

Concen: 22.431 ug/l

RT: 5.052 min Scan# 1170

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

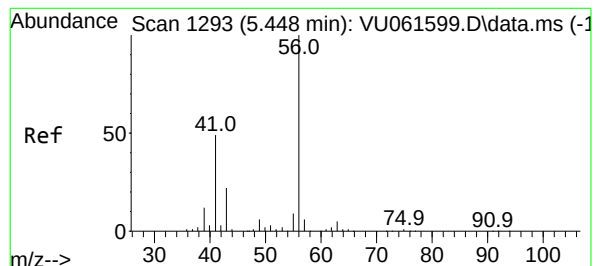
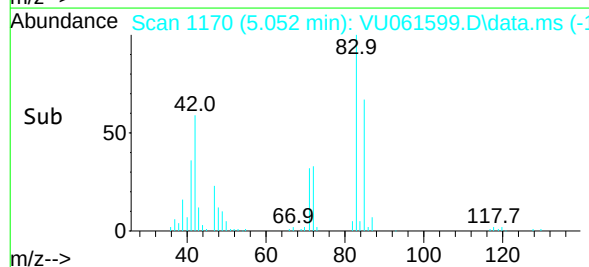
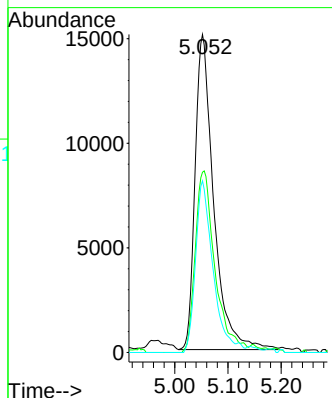
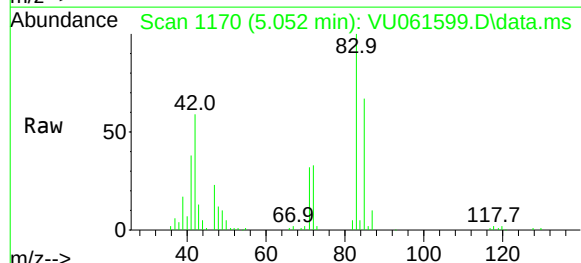
ClientSampleId :

VSTDICCC010

Tgt Ion:	42	Resp:	36543
Ion	Ratio	Lower	Upper
42	100		
72	61.4	49.1	73.7
71	50.3	40.2	60.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#42

1-Chlorobutane

Concen: 11.768 ug/l

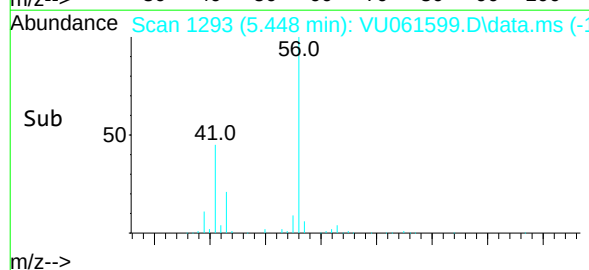
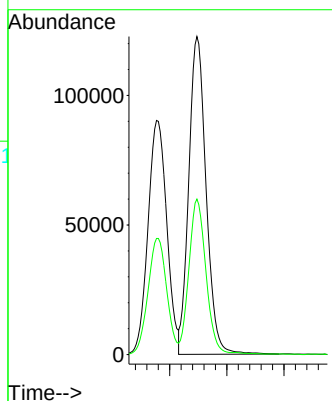
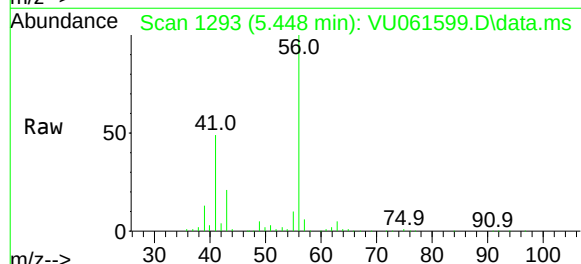
RT: 5.448 min Scan# 1293

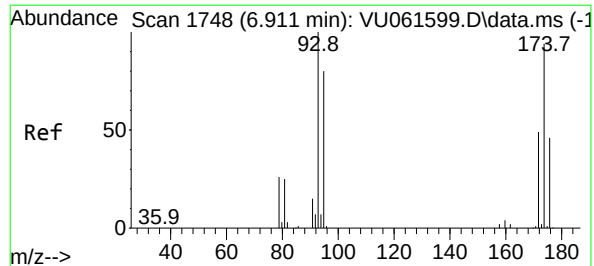
Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:	56	Resp:	258015
Ion	Ratio	Lower	Upper
56	100		
41	46.8	23.4	70.2





#43

Dibromomethane

Concen: 11.298 ug/l

RT: 6.911 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 93 Resp: 78675

Ion Ratio Lower Upper

93 100

95 81.5 65.2 97.8

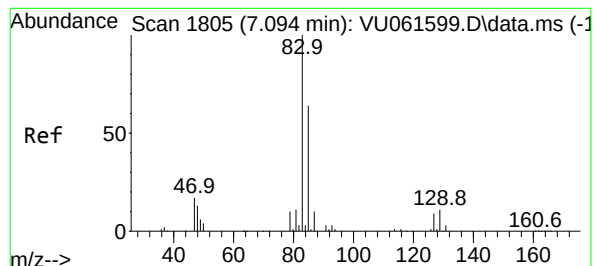
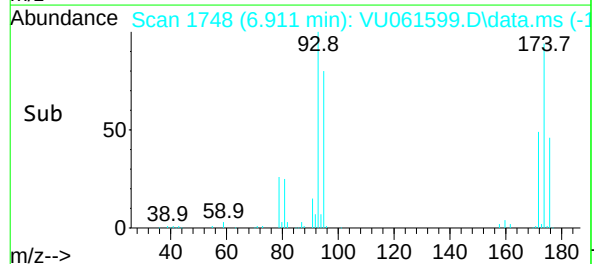
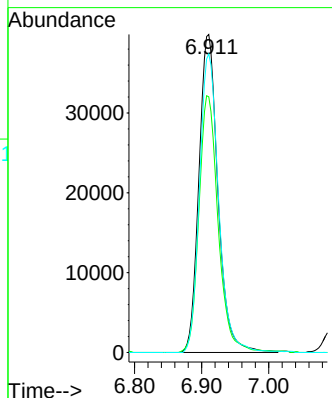
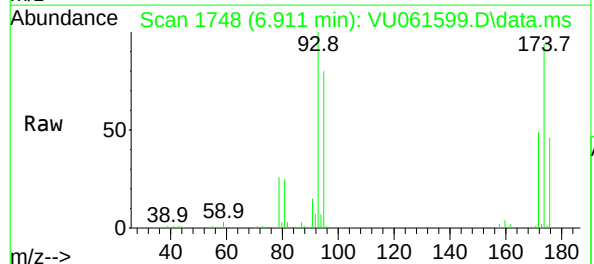
174 94.1 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

Concen: 11.439 ug/l

RT: 7.094 min Scan# 1805

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

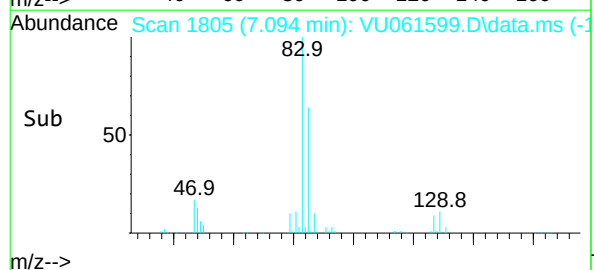
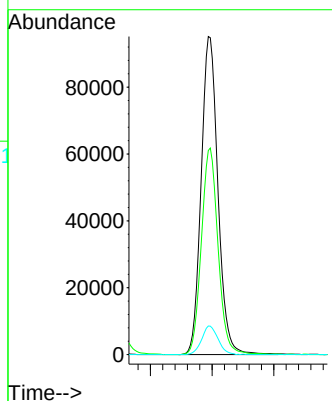
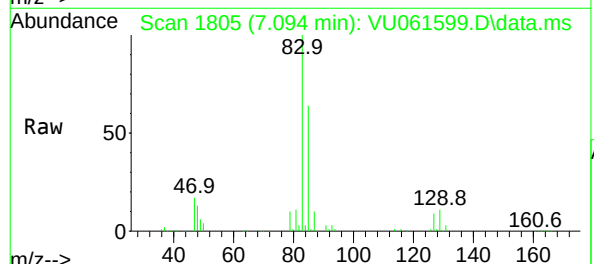
Tgt Ion: 83 Resp: 179881

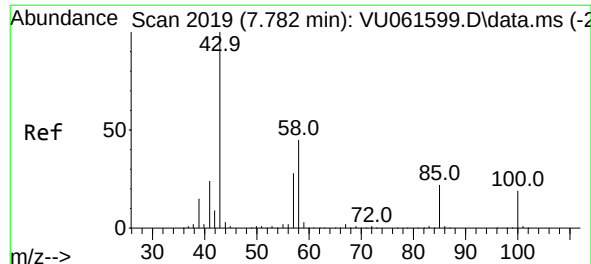
Ion Ratio Lower Upper

83 100

85 64.2 51.4 77.0

127 9.0 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 56.625 ug/l

RT: 7.782 min Scan# 2019

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 43 Resp: 366790

Ion Ratio Lower Upper

43 100

58 44.5 22.3 66.8

85 21.5 17.2 25.8

Instrument :

MSVOA_U

ClientSampleId :

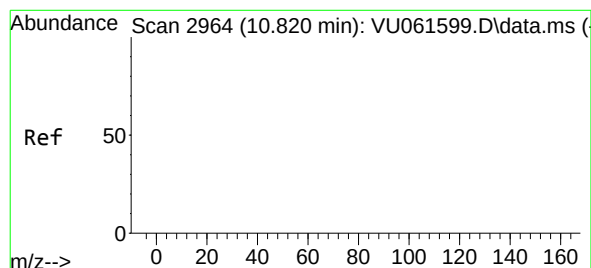
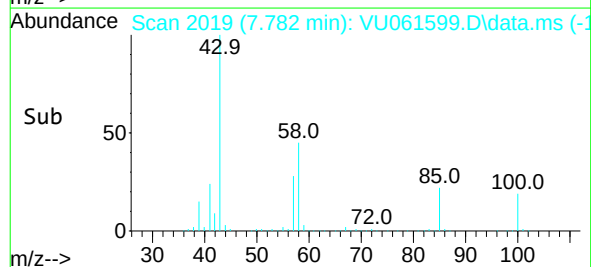
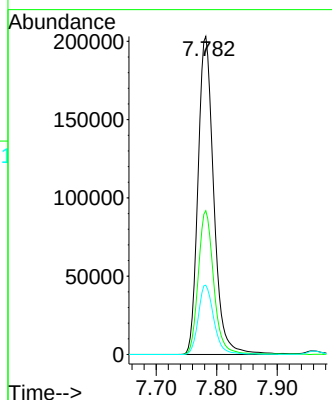
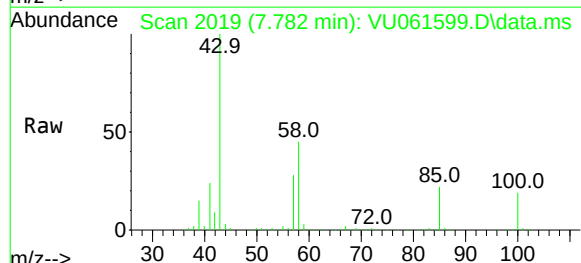
VSTDICCC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 22.110 ug/l m

RT: 10.820 min Scan# 2964

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 75 Resp: 79185

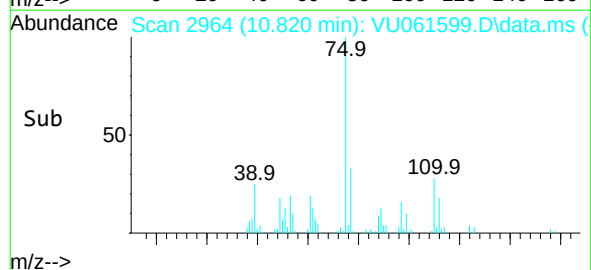
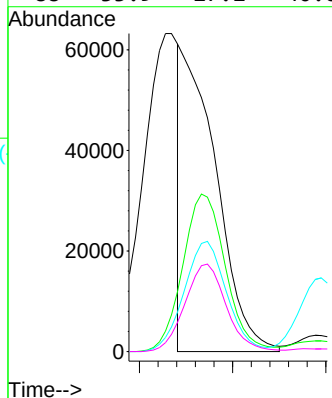
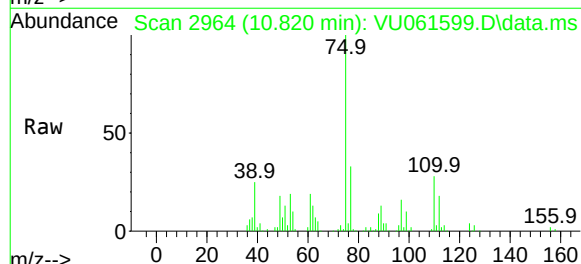
Ion Ratio Lower Upper

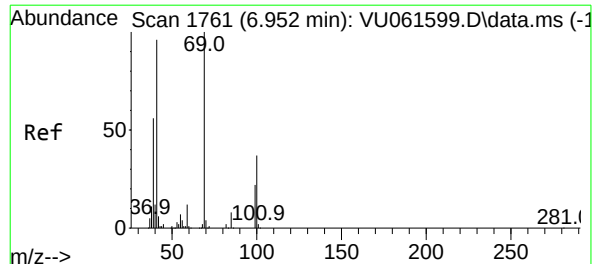
75 100

53 63.3 50.7 76.1

89 43.8 35.2 52.8

88 33.9 27.2 40.8





#47

Methyl methacrylate

Concen: 24.176 ug/l

RT: 6.952 min Scan# 1761

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 69 Resp: 133614

Ion Ratio Lower Upper

69 100

41 96.8 0.0 193.6

39 58.3 46.6 70.0

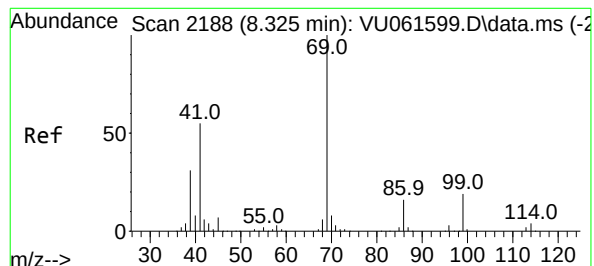
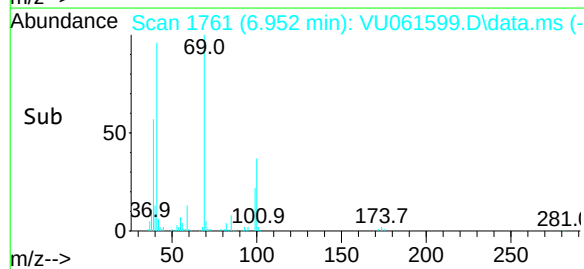
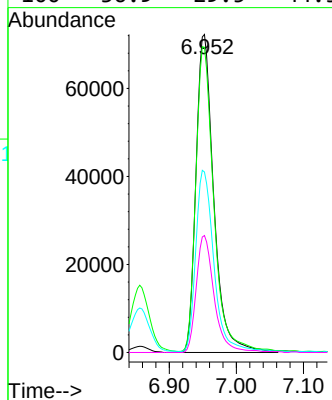
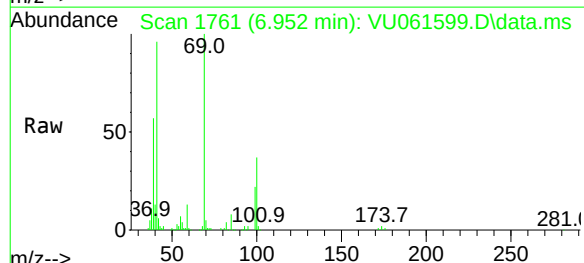
100 36.9 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#48

Ethyl methacrylate

Concen: 12.177 ug/l

RT: 8.325 min Scan# 2188

Delta R.T. 0.000 min

Lab File: VU061599.D

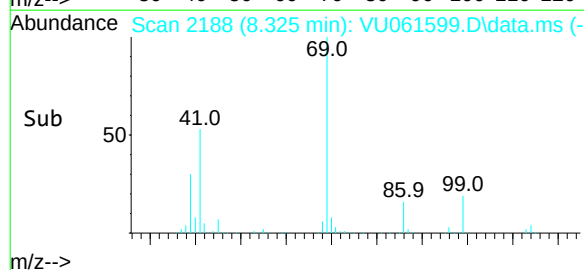
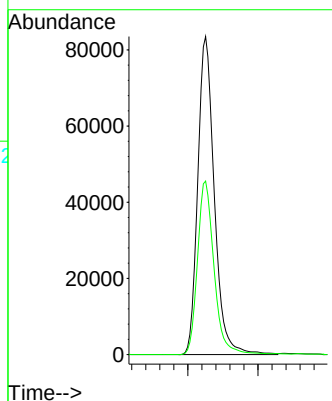
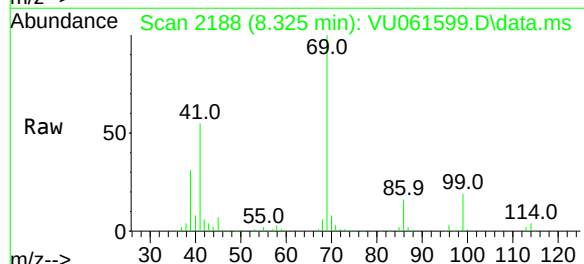
Acq: 12 Nov 2024 10:46

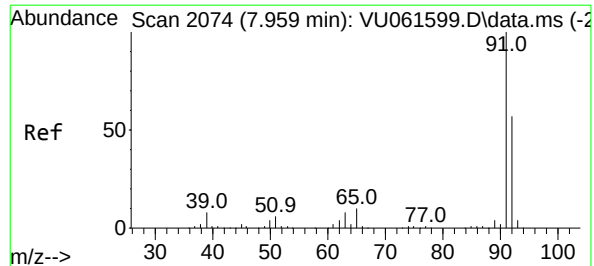
Tgt Ion: 69 Resp: 136808

Ion Ratio Lower Upper

69 100

41 54.6 27.3 81.9





#49

Toluene

Concen: 11.626 ug/l

RT: 7.959 min Scan# 2074

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 92 Resp: 371782

Ion Ratio Lower Upper

92 100

91 174.5 139.6 209.4

Instrument :

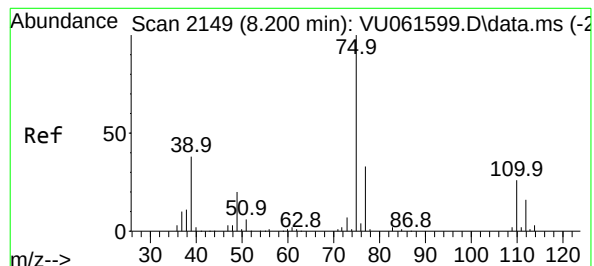
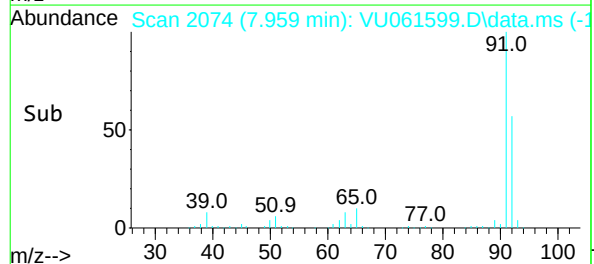
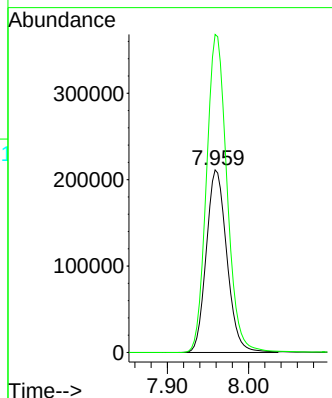
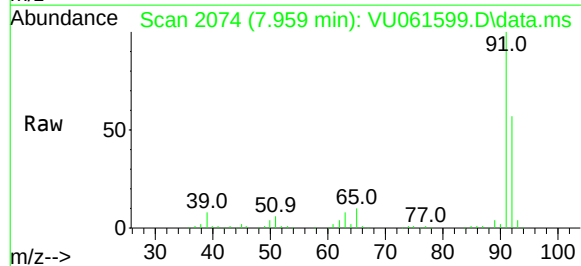
MSVOA_U

ClientSampleId :

VSTDICCC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#50

t-1,3-Dichloropropene

Concen: 12.041 ug/l

RT: 8.200 min Scan# 2149

Delta R.T. 0.000 min

Lab File: VU061599.D

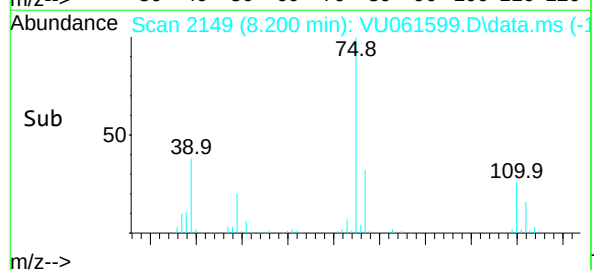
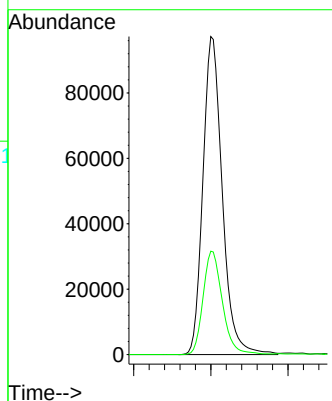
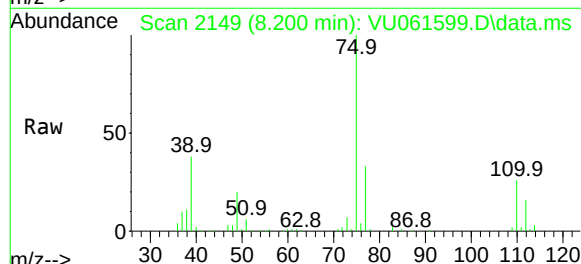
Acq: 12 Nov 2024 10:46

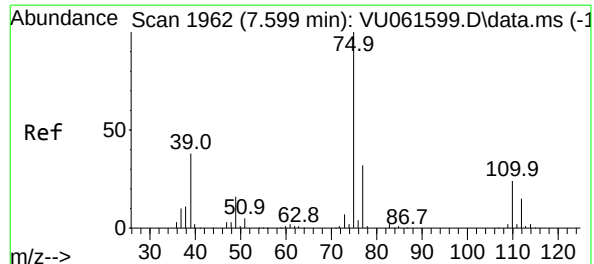
Tgt Ion: 75 Resp: 169430

Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0





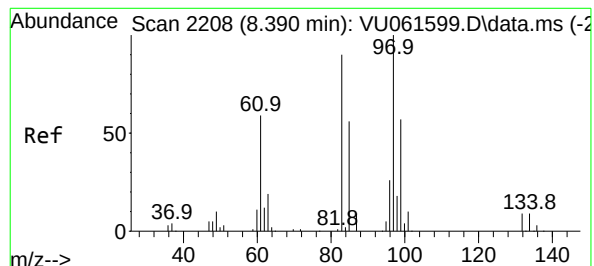
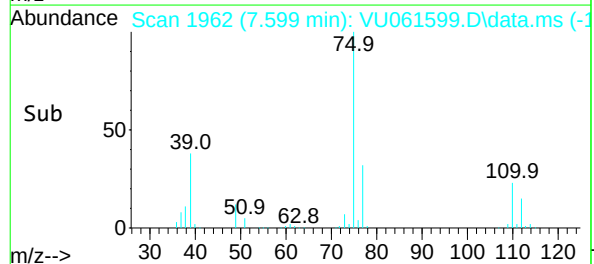
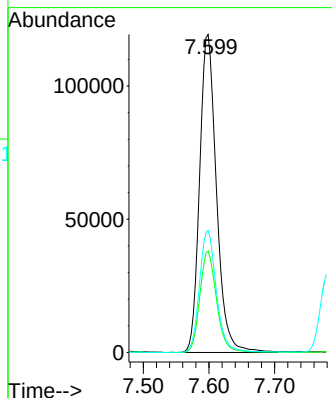
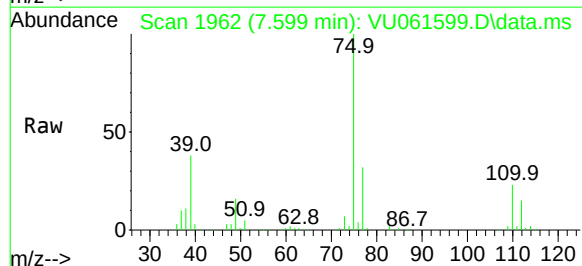
#51
cis-1,3-Dichloropropene
Concen: 11.804 ug/l
RT: 7.599 min Scan# 1962
Delta R.T. 0.000 min
Lab File: VU061599.D
Acq: 12 Nov 2024 10:46

Instrument :
MSVOA_U
ClientSampleId :
VSTDICCC010

Tgt Ion: 75 Resp: 213061
Ion Ratio Lower Upper
75 100
77 31.9 25.5 38.3
39 38.3 30.6 46.0

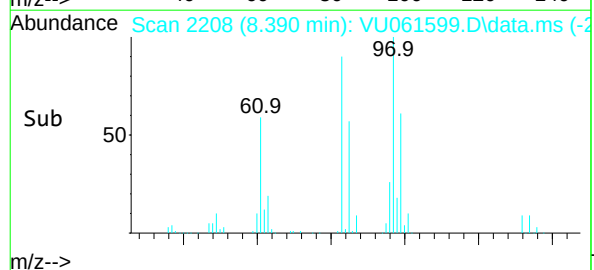
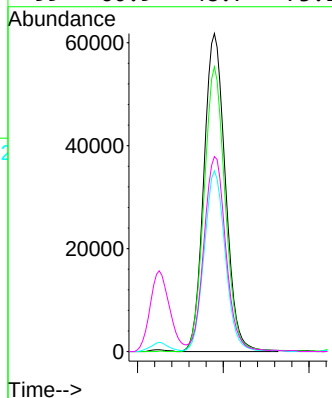
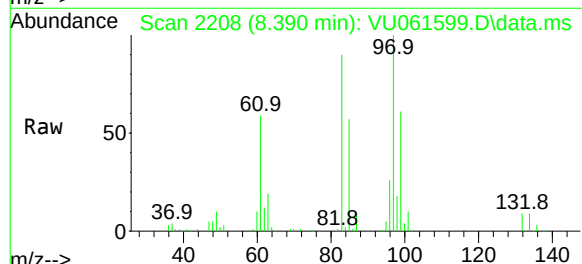
Manual Integrations
APPROVED

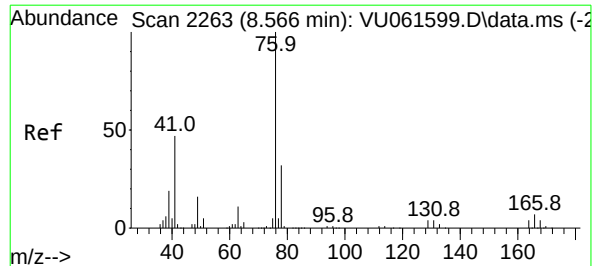
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#52
1,1,2-Trichloroethane
Concen: 11.282 ug/l
RT: 8.390 min Scan# 2208
Delta R.T. 0.000 min
Lab File: VU061599.D
Acq: 12 Nov 2024 10:46

Tgt Ion: 97 Resp: 107692
Ion Ratio Lower Upper
97 100
83 89.6 71.7 107.5
85 56.5 45.2 67.8
99 60.9 48.7 73.1





#53

1,3-Dichloropropane

Concen: 11.252 ug/l

RT: 8.566 min Scan# 2263

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 76 Resp: 183304

Ion Ratio Lower Upper

76 100

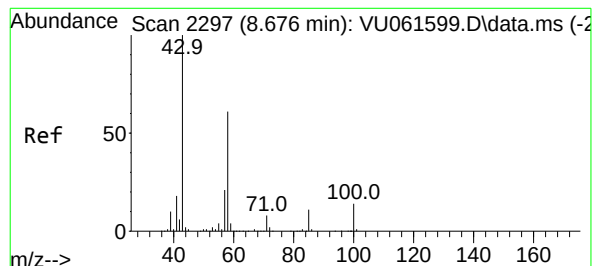
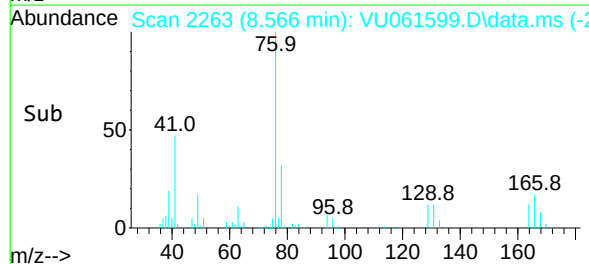
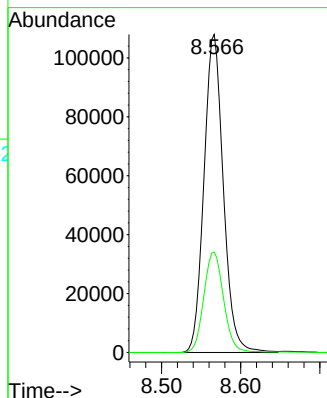
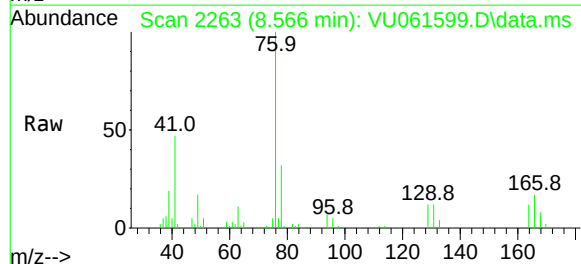
78 32.3 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#54

2-Hexanone

Concen: 52.960 ug/l

RT: 8.676 min Scan# 2297

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

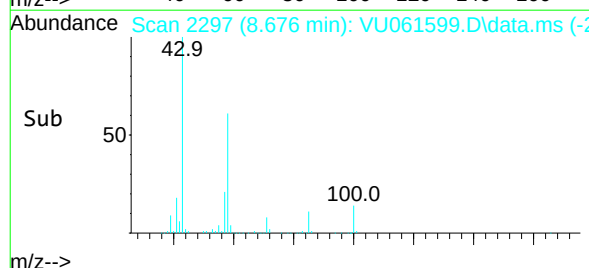
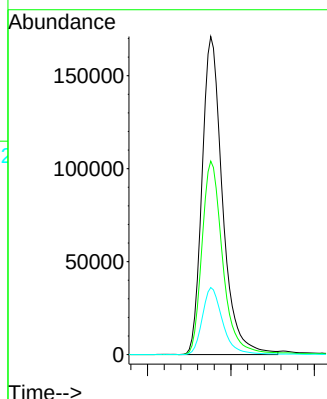
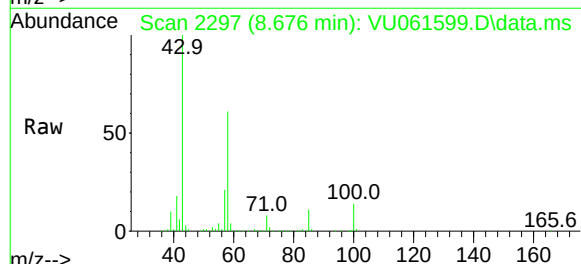
Tgt Ion: 43 Resp: 292286

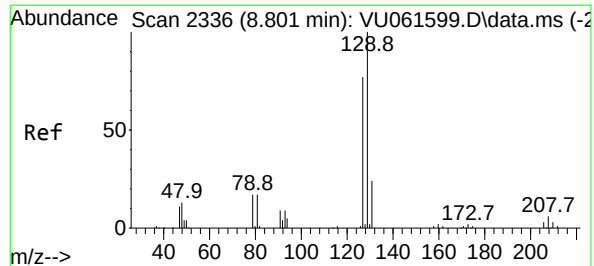
Ion Ratio Lower Upper

43 100

58 62.3 42.3 82.3

57 20.9 0.9 40.9





#55

Dibromochloromethane

Concen: 12.047 ug/l

RT: 8.801 min Scan# 2336

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:129 Resp: 124480

Ion Ratio Lower Upper

129 100

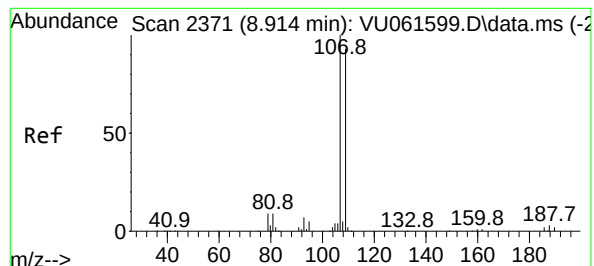
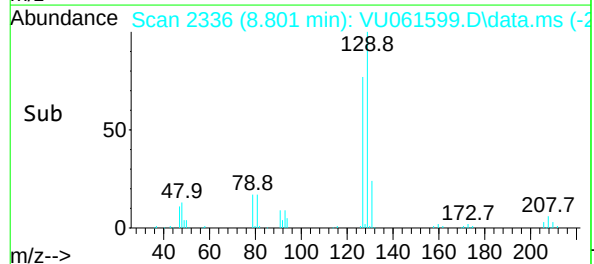
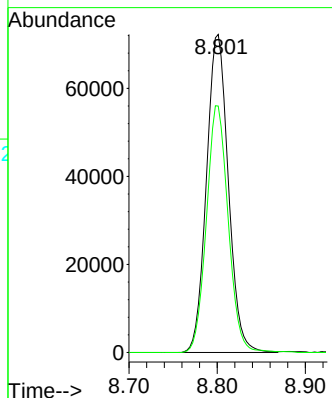
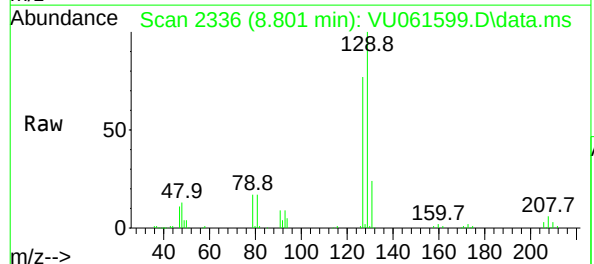
127 77.3 61.8 92.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#56

1,2-Dibromoethane

Concen: 11.334 ug/l

RT: 8.914 min Scan# 2371

Delta R.T. 0.000 min

Lab File: VU061599.D

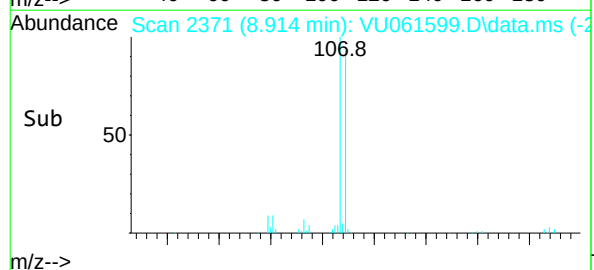
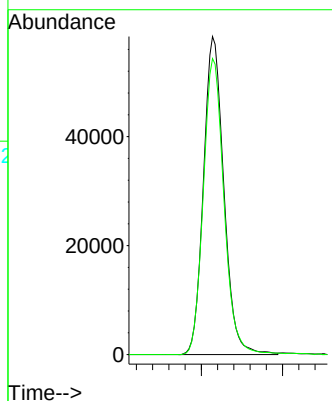
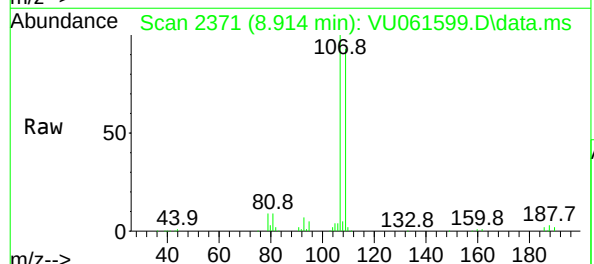
Acq: 12 Nov 2024 10:46

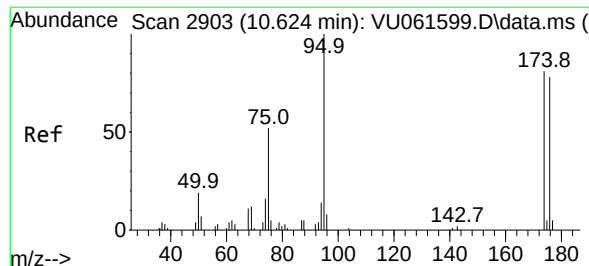
Tgt Ion:107 Resp: 101678

Ion Ratio Lower Upper

107 100

109 94.4 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 1.043 ug/l

RT: 10.624 min Scan# 2903

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

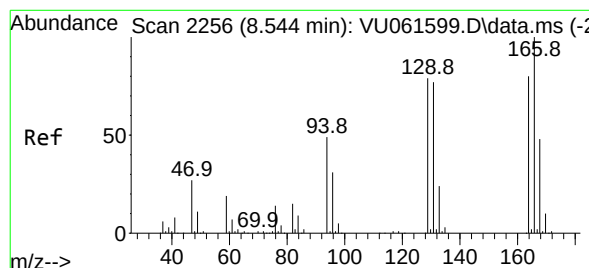
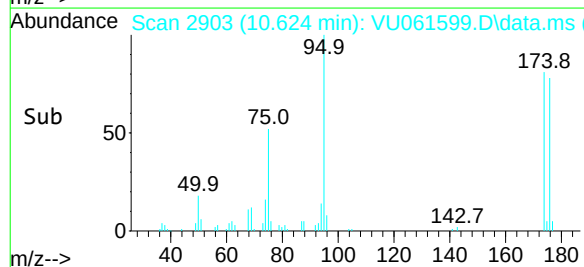
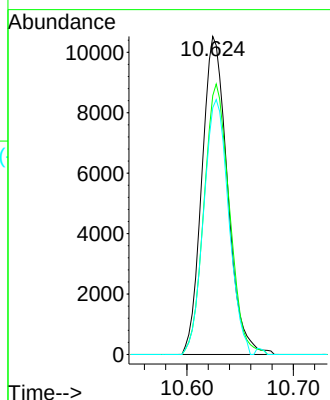
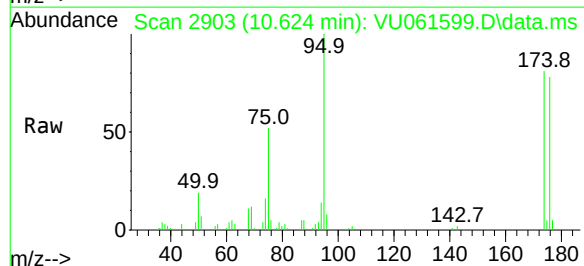
ClientSampleId :

VSTDICCC010

Tgt Ion:	95	Resp:	17564
Ion Ratio	Lower	Upper	
95	100		
174	84.4	67.5	101.3
176	78.4	62.7	94.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#58

Tetrachloroethene

Concen: 11.089 ug/l

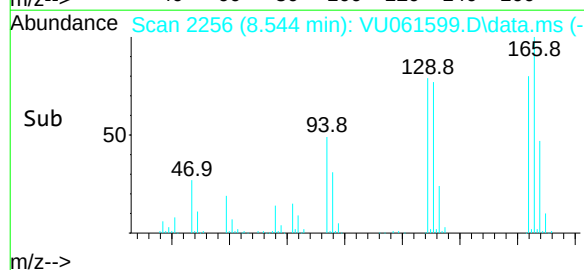
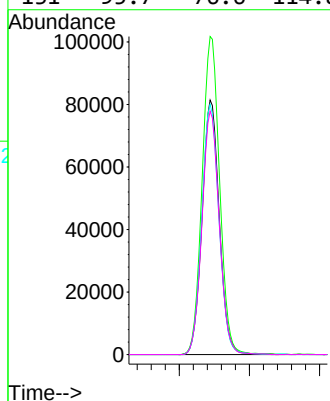
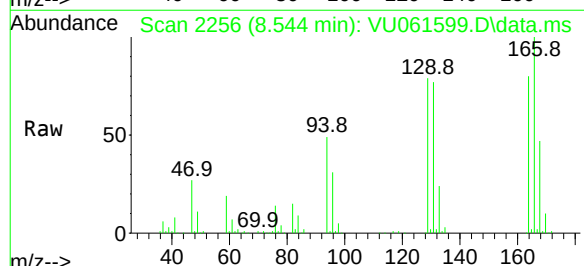
RT: 8.544 min Scan# 2256

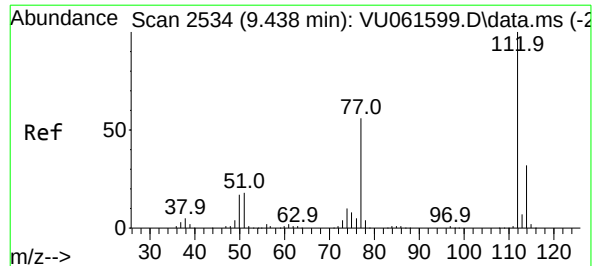
Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:	164	Resp:	138328
Ion Ratio	Lower	Upper	
164	100		
166	124.9	99.9	149.9
129	98.3	78.6	118.0
131	95.7	76.6	114.8





#59

Chlorobenzene

Concen: 11.591 ug/l

RT: 9.438 min Scan# 2534

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:112 Resp: 409498

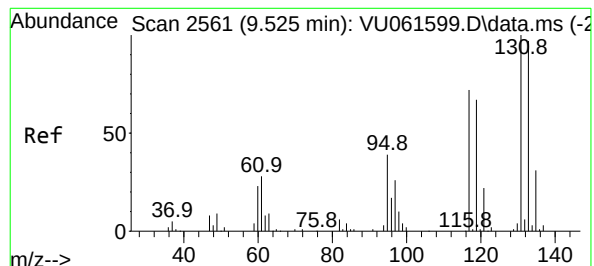
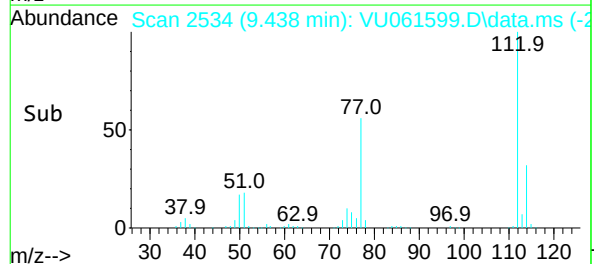
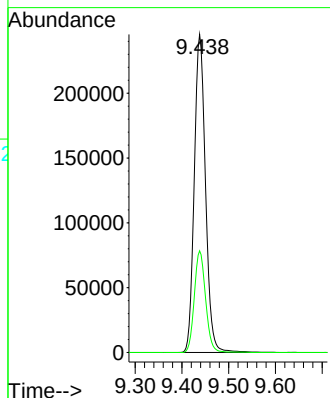
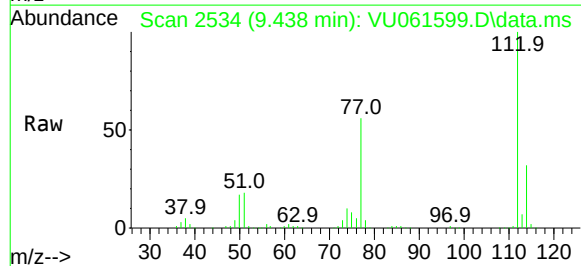
Ion Ratio Lower Upper

112 100

114 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#60

1,1,1,2-Tetrachloroethane

Concen: 11.794 ug/l

RT: 9.525 min Scan# 2561

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

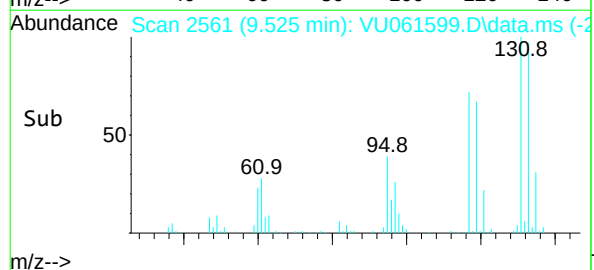
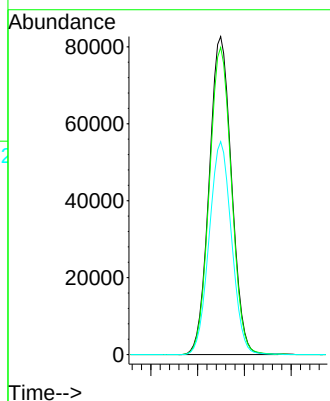
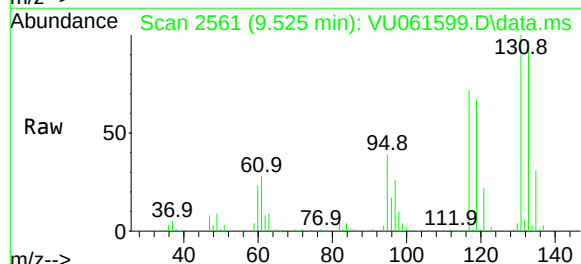
Tgt Ion:131 Resp: 137519

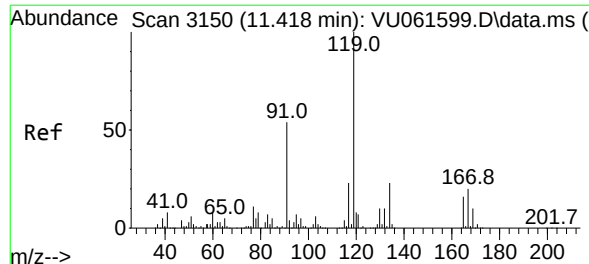
Ion Ratio Lower Upper

131 100

133 95.5 76.4 114.6

119 66.9 53.5 80.3





#61

Pentachloroethane

Concen: 12.329 ug/l

RT: 11.418 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:117 Resp: 108161

Ion Ratio Lower Upper

117 100

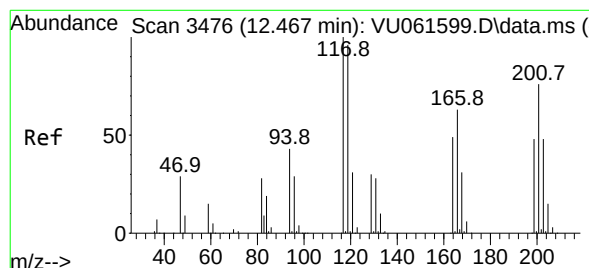
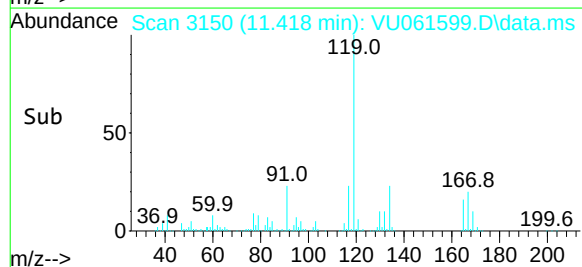
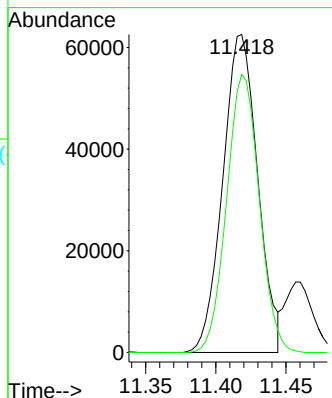
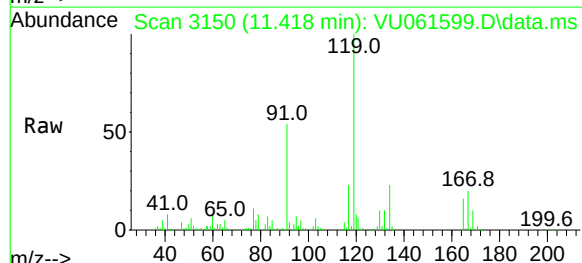
167 81.7 65.4 98.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 10.672 ug/l

RT: 12.467 min Scan# 3476

Delta R.T. 0.000 min

Lab File: VU061599.D

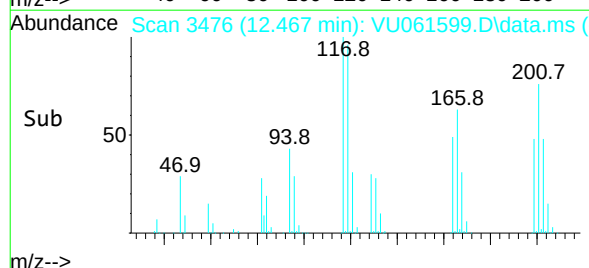
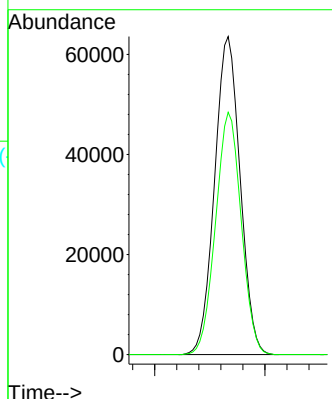
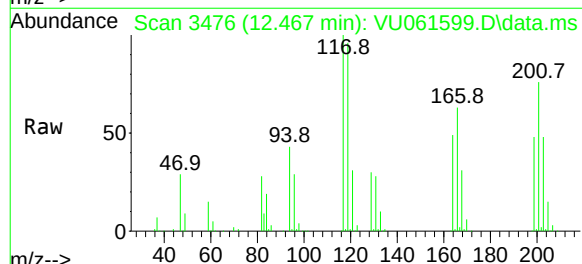
Acq: 12 Nov 2024 10:46

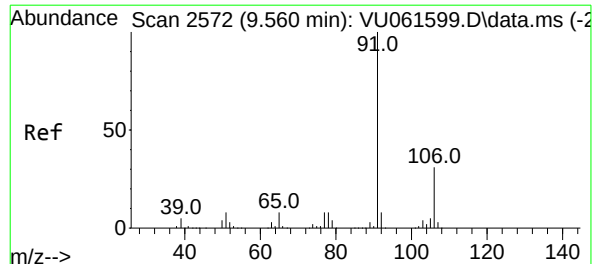
Tgt Ion:117 Resp: 102452

Ion Ratio Lower Upper

117 100

201 76.3 61.0 91.6





#63

Ethyl Benzene

Concen: 11.865 ug/l

RT: 9.560 min Scan# 2572

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 705700

Ion Ratio Lower Upper

91 100

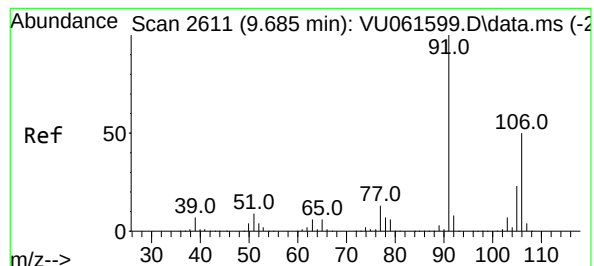
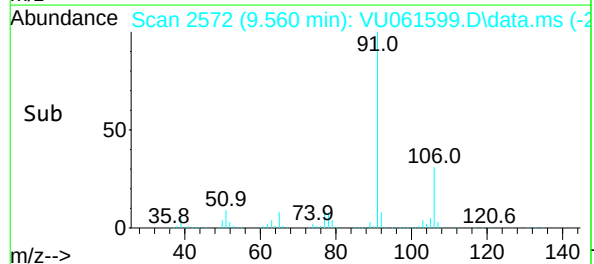
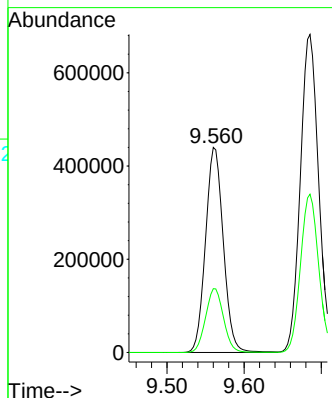
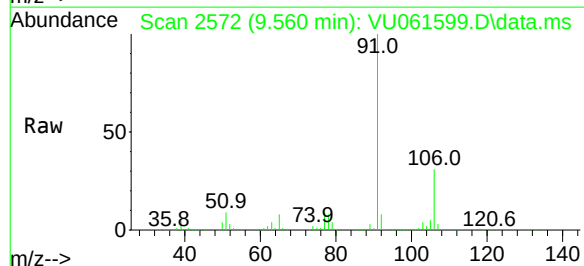
106 31.1 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#64

m/p-Xylenes

Concen: 24.491 ug/l

RT: 9.685 min Scan# 2611

Delta R.T. 0.000 min

Lab File: VU061599.D

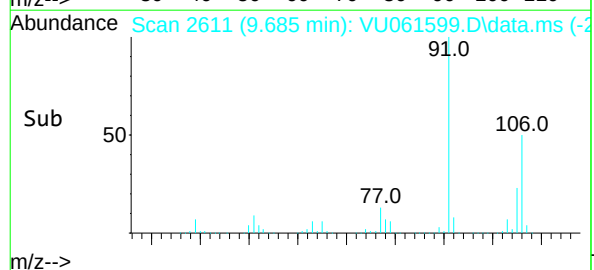
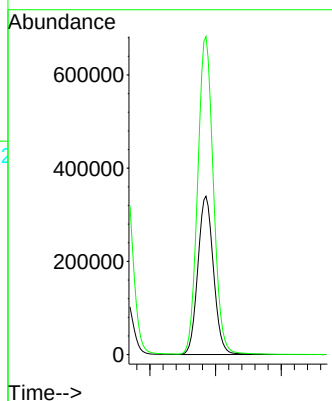
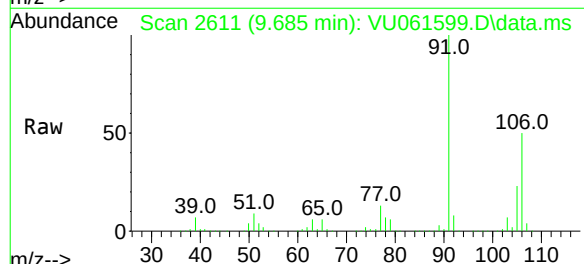
Acq: 12 Nov 2024 10:46

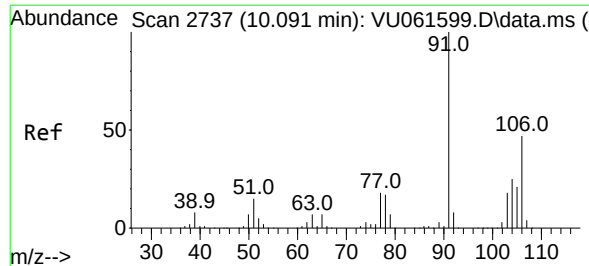
Tgt Ion:106 Resp: 560984

Ion Ratio Lower Upper

106 100

91 201.6 161.3 241.9





#65

o-Xylene

Concen: 11.985 ug/l

RT: 10.091 min Scan# 2737

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:106 Resp: 267696

Ion Ratio Lower Upper

106 100

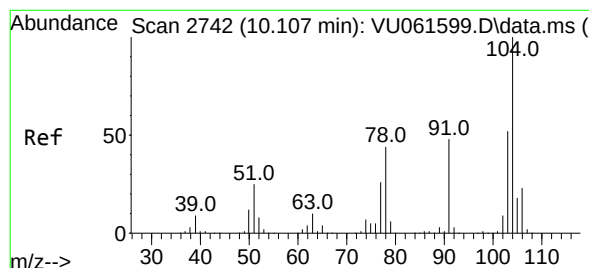
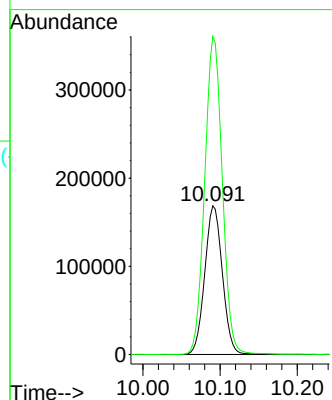
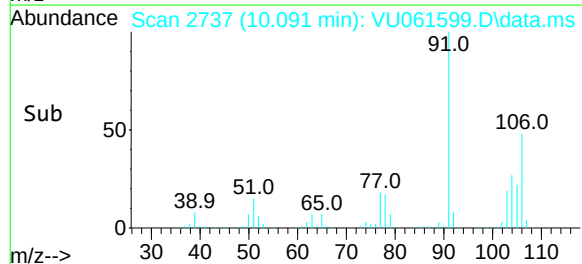
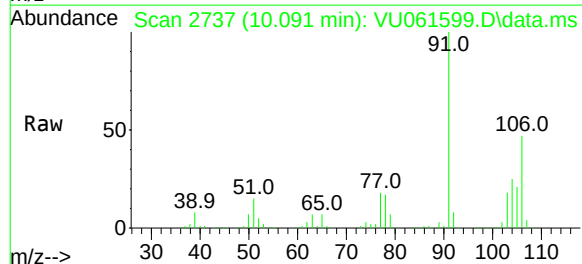
91 213.4 106.7 320.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#66

Styrene

Concen: 10.704 ug/l

RT: 10.107 min Scan# 2742

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

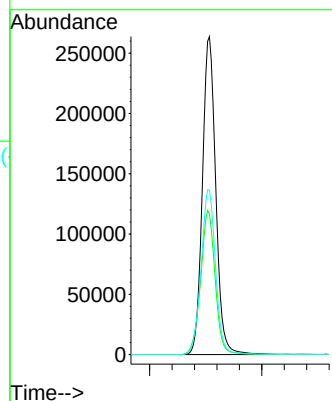
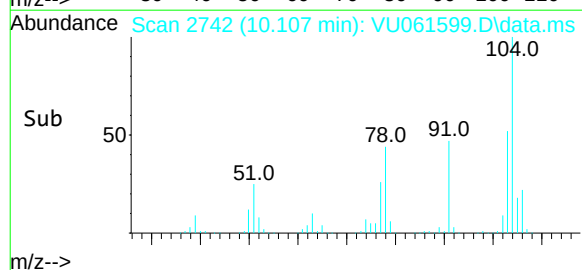
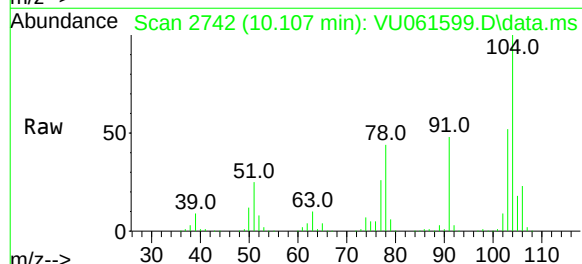
Tgt Ion:104 Resp: 437096

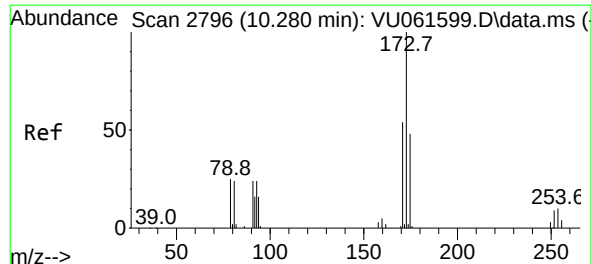
Ion Ratio Lower Upper

104 100

78 49.0 39.2 58.8

103 56.1 44.9 67.3





#67

Bromoform

Concen: 12.391 ug/l

RT: 10.280 min Scan# 2796

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

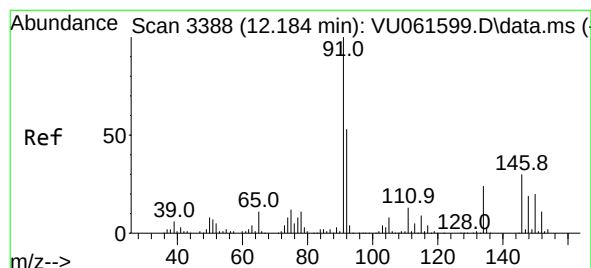
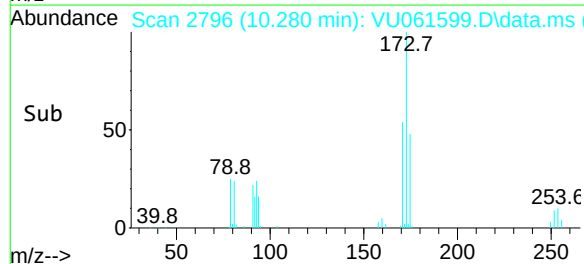
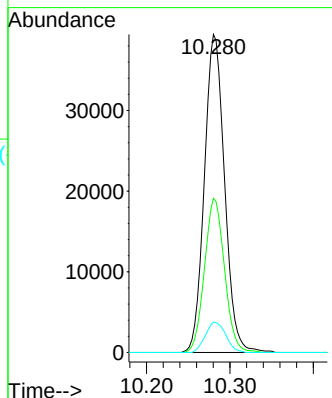
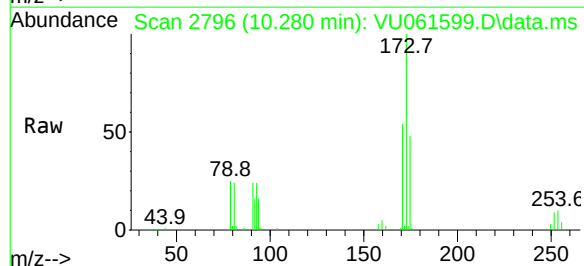
ClientSampleId :

VSTDICCC010

Tgt Ion:	173	Resp:	66422
Ion Ratio	Lower	Upper	
173	100		
175	48.0	38.4	57.6
254	9.6	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 1.100 ug/l

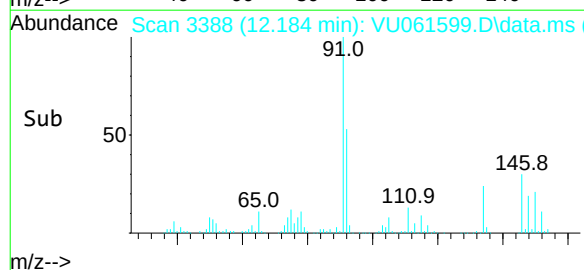
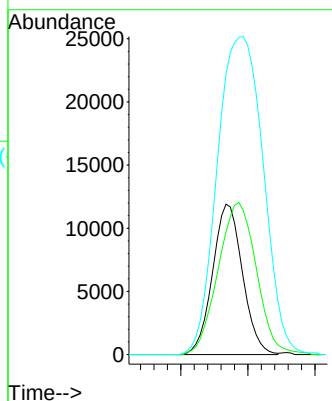
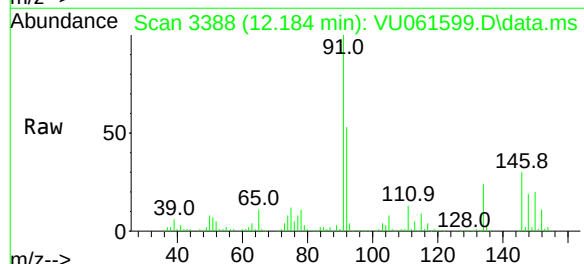
RT: 12.184 min Scan# 3388

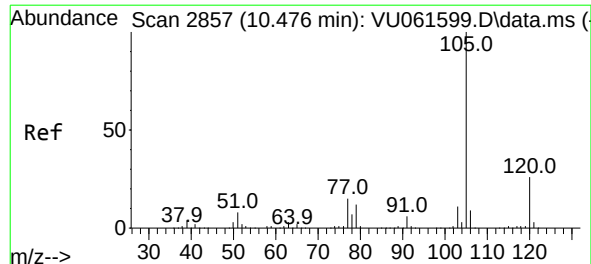
Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:	152	Resp:	18442
Ion Ratio	Lower	Upper	
152	100		
115	129.5	0.0	259.0
150	325.1	0.0	650.2





#69

Isopropylbenzene

Concen: 12.184 ug/l

RT: 10.476 min Scan# 2857

Delta R.T. 0.000 min

Lab File: VU061599.D

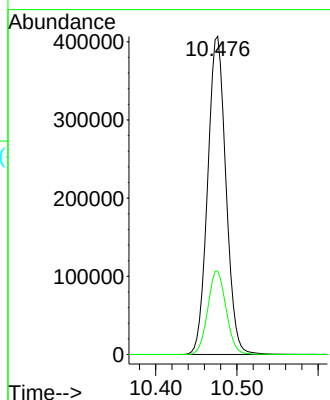
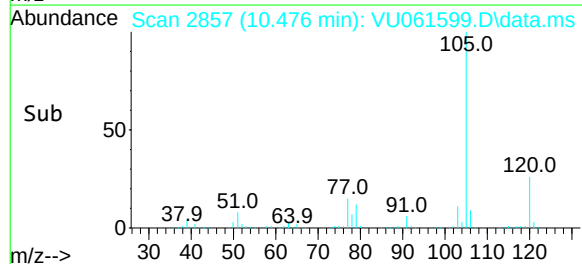
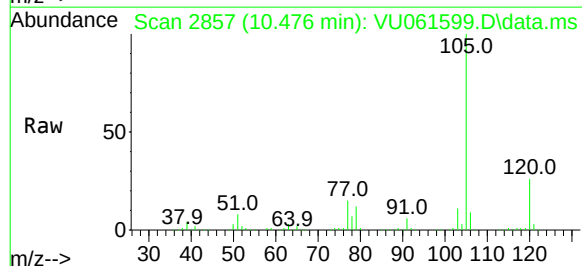
Acq: 12 Nov 2024 10:46

Tgt Ion: 105 Resp: 636511

Ion Ratio Lower Upper

105 100

120 26.4 13.2 39.6



Instrument :

MSVOA_U

ClientSampleId :

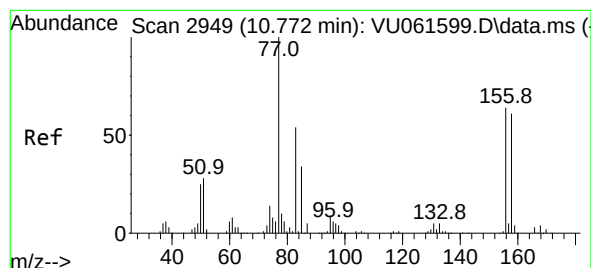
VSTDICCC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 11.360 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

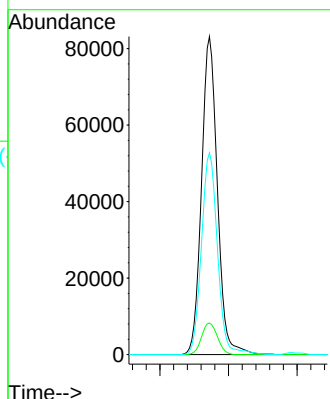
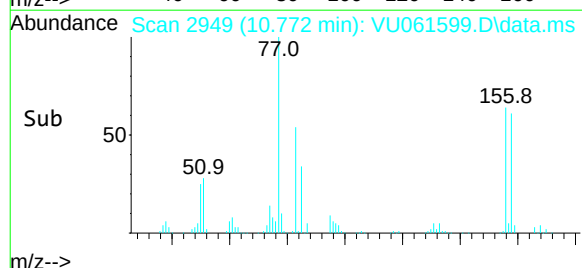
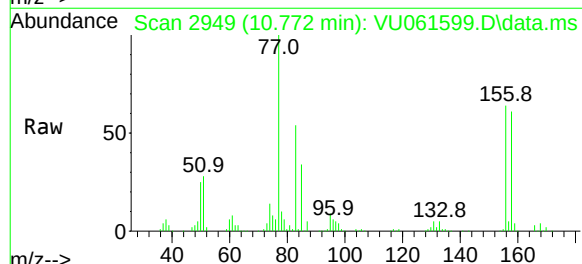
Tgt Ion: 83 Resp: 133521

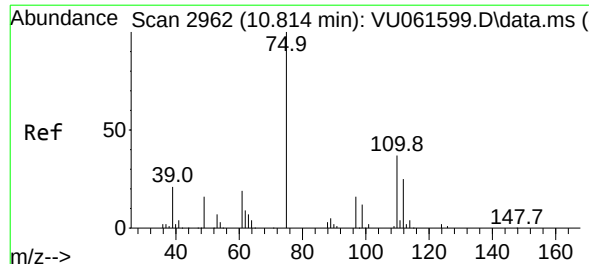
Ion Ratio Lower Upper

83 100

131 9.9 7.9 11.9

85 64.3 51.4 77.2





#71

1,2,3-Trichloropropane

Concen: 11.056 ug/l m

RT: 10.814 min Scan# 2962

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion: 75 Resp: 105896

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 33.3 0.0 61.6

97 18.7 0.0 34.6

Instrument :

MSVOA_U

ClientSampleId :

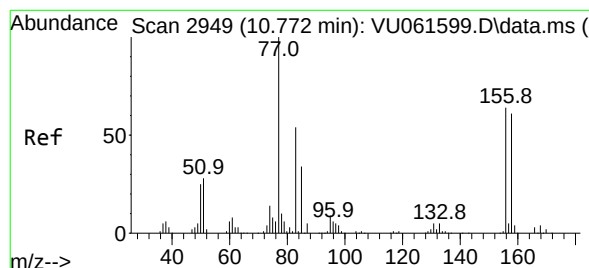
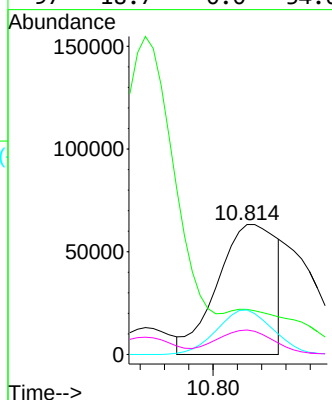
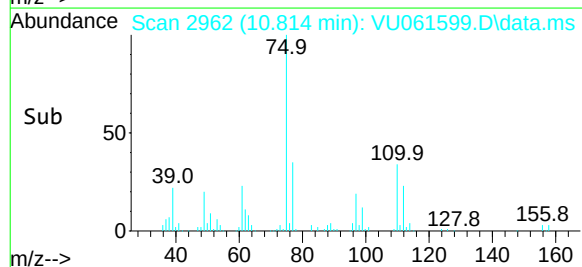
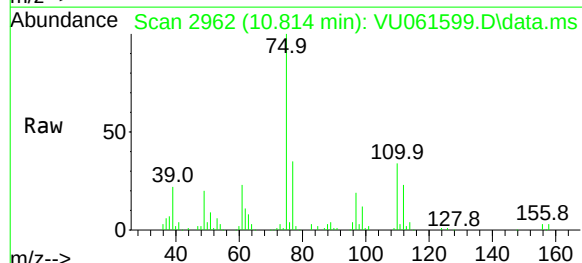
VSTDICCC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

Concen: 11.809 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

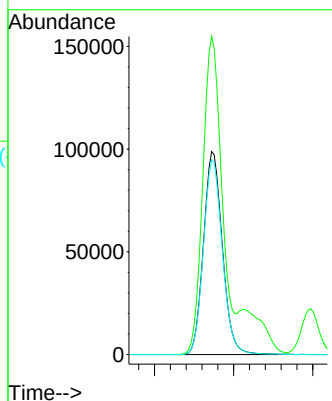
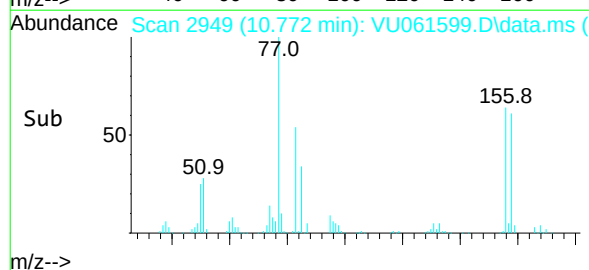
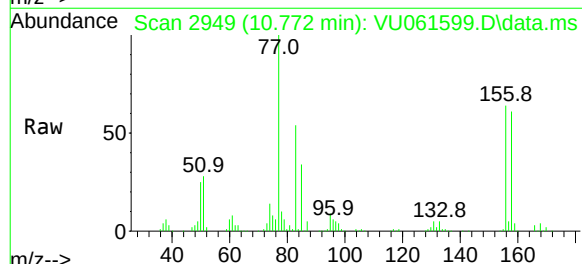
Tgt Ion:156 Resp: 163565

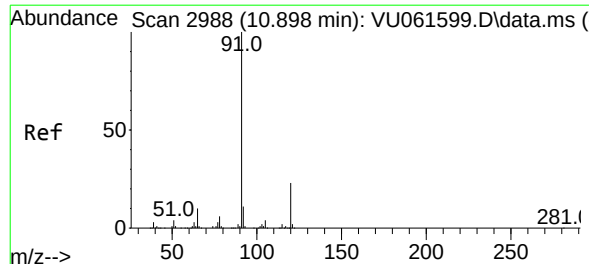
Ion Ratio Lower Upper

156 100

77 156.5 0.0 313.0

158 96.6 0.0 193.2





#73

n-propylbenzene

Concen: 12.418 ug/l

RT: 10.898 min Scan# 2988

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:120 Resp: 191792

Ion Ratio Lower Upper

120 100

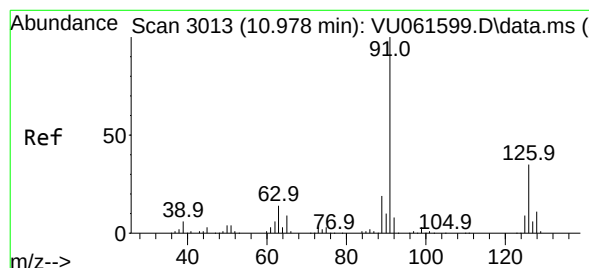
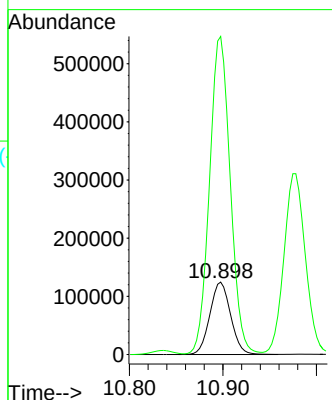
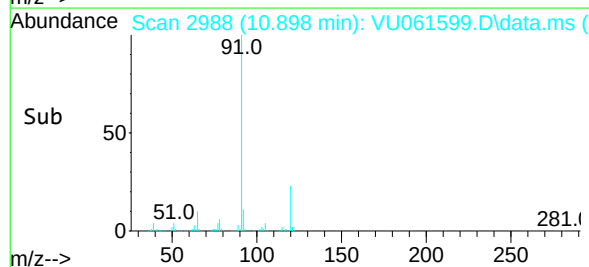
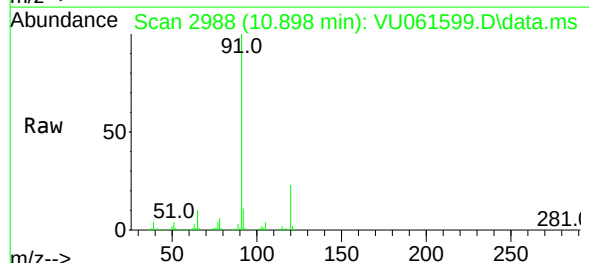
91 437.7 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#74

2-Chlorotoluene

Concen: 12.166 ug/l

RT: 10.978 min Scan# 3013

Delta R.T. 0.000 min

Lab File: VU061599.D

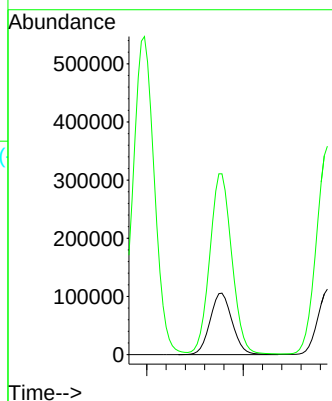
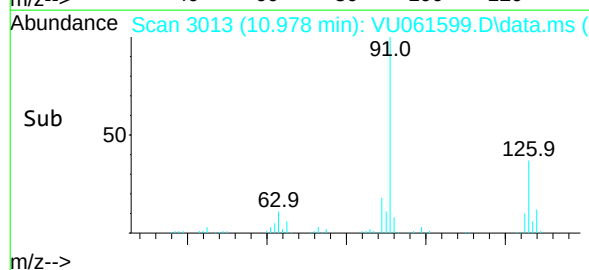
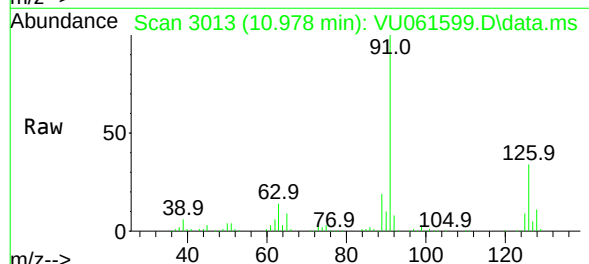
Acq: 12 Nov 2024 10:46

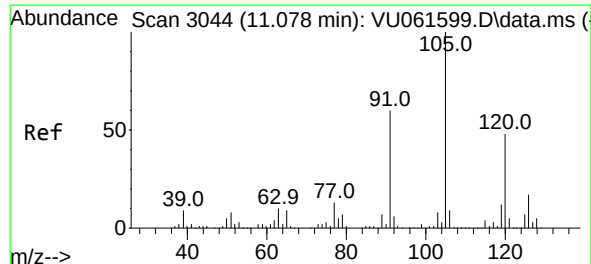
Tgt Ion:126 Resp: 167636

Ion Ratio Lower Upper

126 100

91 293.8 0.0 587.6





#75

1,3,5-Trimethylbenzene

Concen: 12.524 ug/l

RT: 11.078 min Scan# 3044

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:105 Resp: 592328

Ion Ratio Lower Upper

105 100

120 48.5 38.8 58.2

Instrument :

MSVOA_U

ClientSampleId :

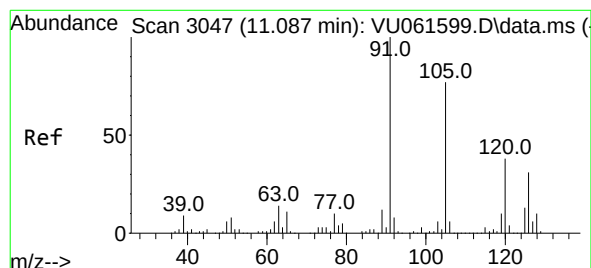
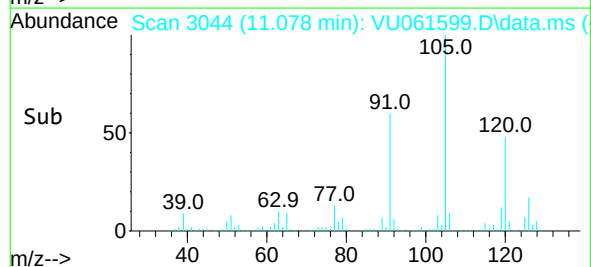
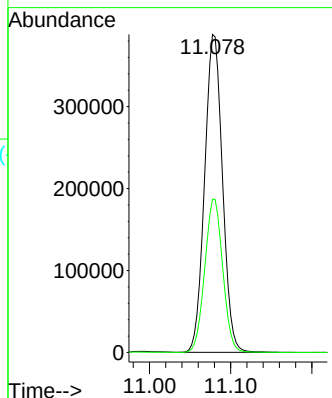
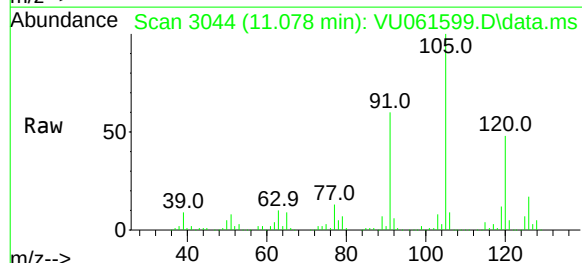
VSTDICCC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#76

4-Chlorotoluene

Concen: 12.523 ug/l

RT: 11.087 min Scan# 3047

Delta R.T. 0.000 min

Lab File: VU061599.D

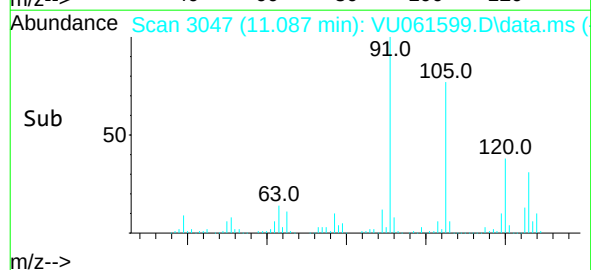
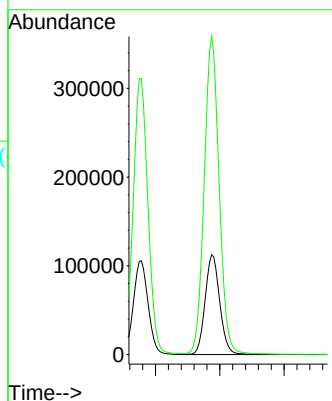
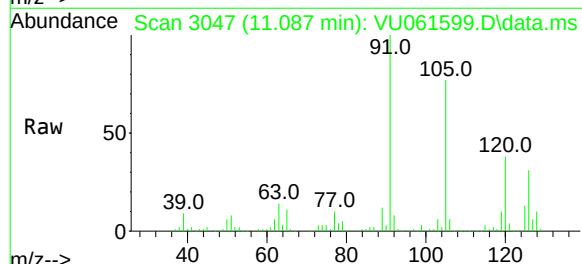
Acq: 12 Nov 2024 10:46

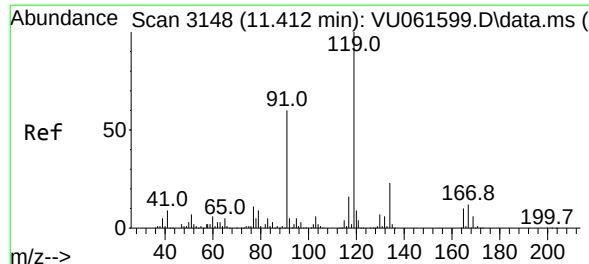
Tgt Ion:126 Resp: 177494

Ion Ratio Lower Upper

126 100

91 325.2 0.0 650.4





#77

tert-Butylbenzene

Concen: 12.487 ug/l

RT: 11.412 min Scan# 3148

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:119 Resp: 576541

Ion Ratio Lower Upper

119 100

91 58.4 29.2 87.6

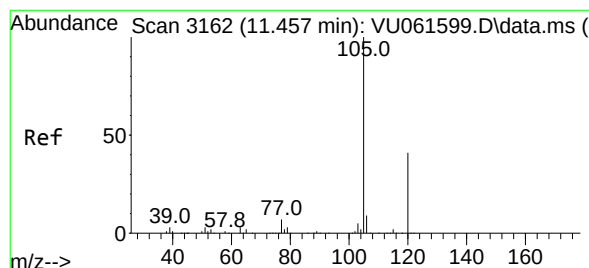
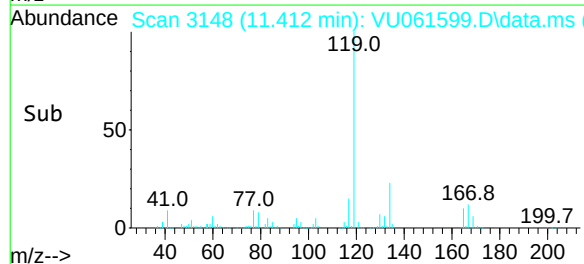
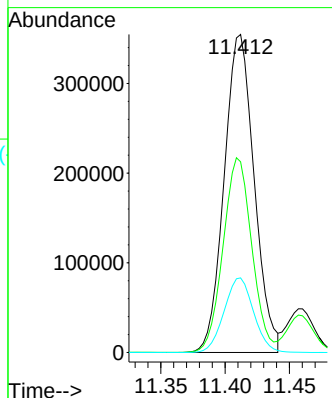
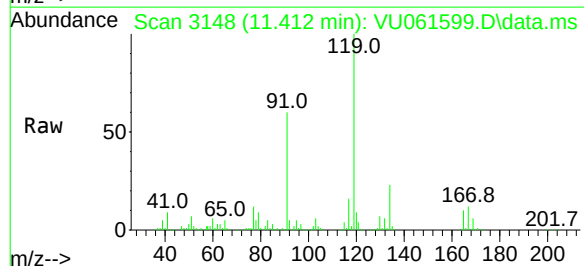
134 23.0 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 10.837 ug/l

RT: 11.457 min Scan# 3162

Delta R.T. 0.000 min

Lab File: VU061599.D

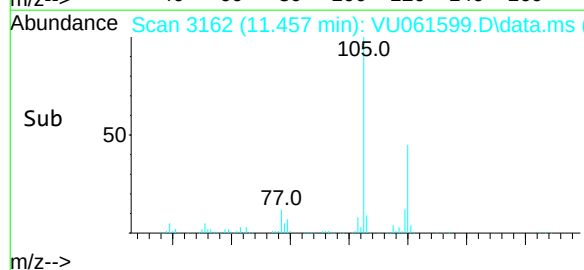
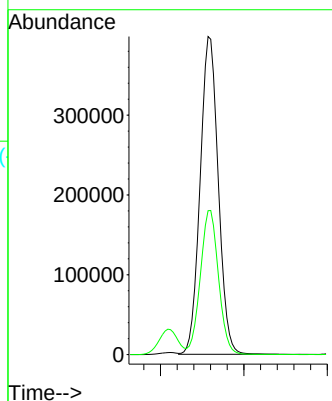
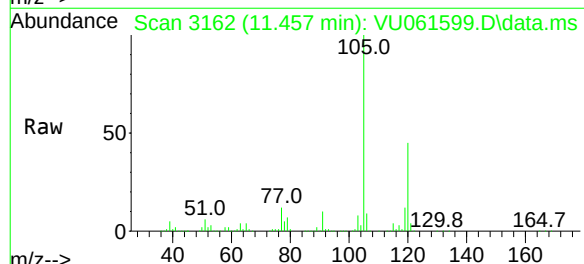
Acq: 12 Nov 2024 10:46

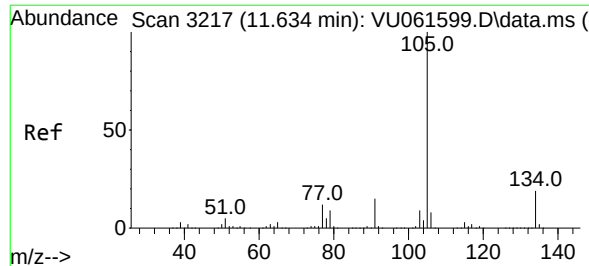
Tgt Ion:105 Resp: 601779

Ion Ratio Lower Upper

105 100

120 45.3 22.7 68.0





#79

sec-Butylbenzene

Concen: 12.398 ug/l

RT: 11.634 min Scan# 3217

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion: 105 Resp: 758843

Ion Ratio Lower Upper

105 100

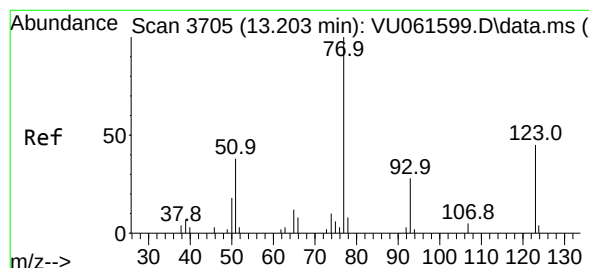
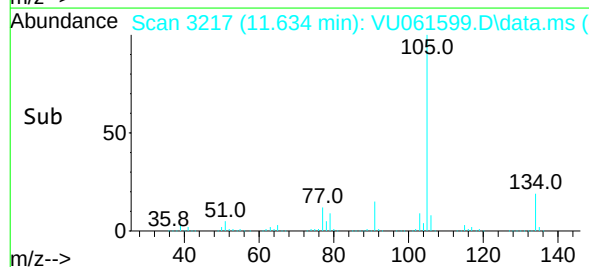
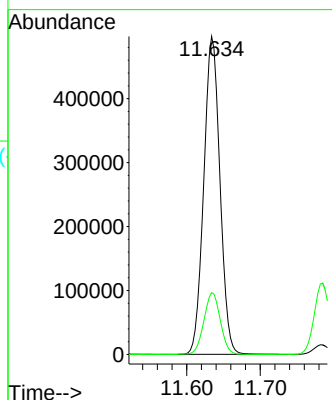
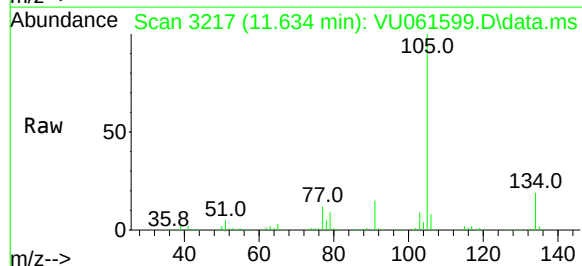
134 19.8 15.8 23.8

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#80

Nitrobenzene

Concen: 51.411 ug/l m

RT: 13.203 min Scan# 3705

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

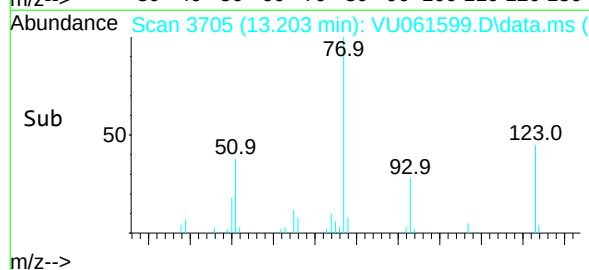
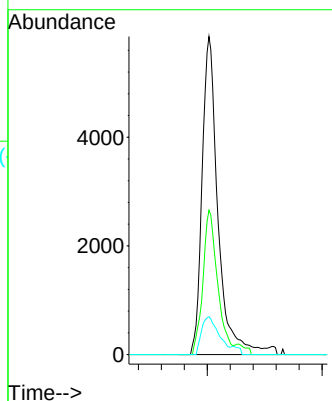
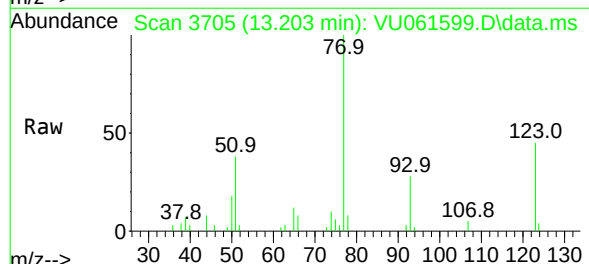
Tgt Ion: 77 Resp: 11302

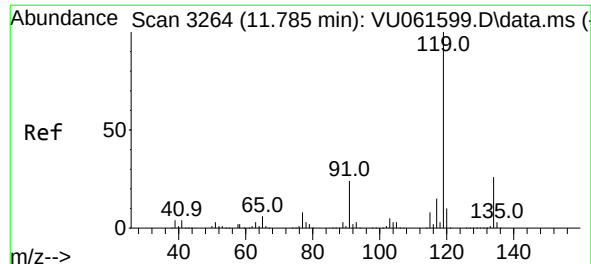
Ion Ratio Lower Upper

77 100

123 38.5 16.9 60.1

65 10.7 9.4 12.0





#81

p-Isopropyltoluene

Concen: 10.874 ug/l

RT: 11.785 min Scan# 3264

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

ClientSampleId :

VSTDICCC010

Tgt Ion:119 Resp: 637166

Ion Ratio Lower Upper

119 100

134 26.1 20.9 31.3

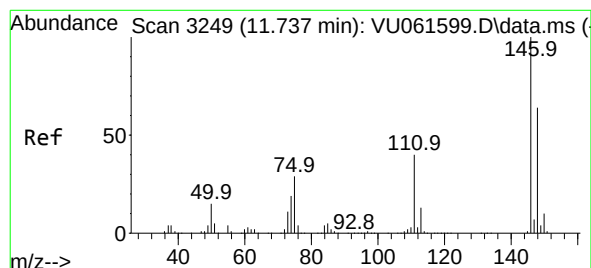
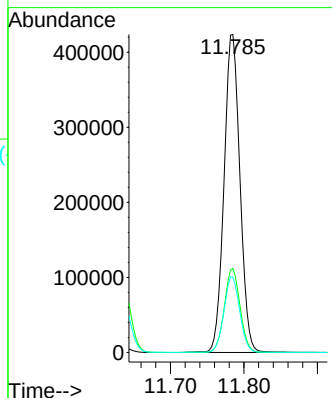
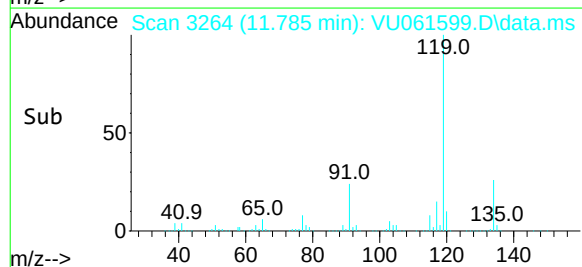
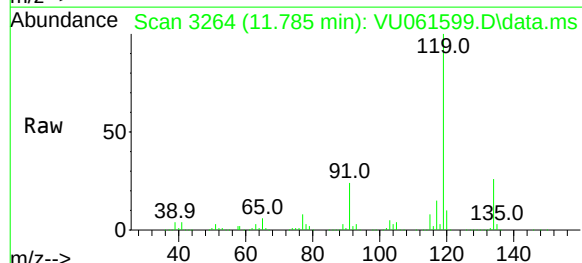
91 23.5 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#82

1,3-Dichlorobenzene

Concen: 12.101 ug/l

RT: 11.737 min Scan# 3249

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

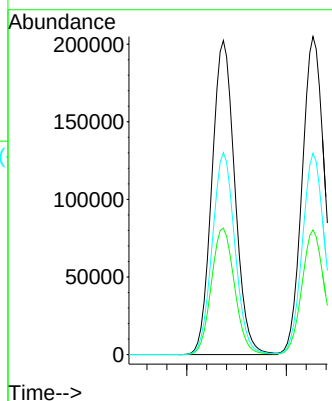
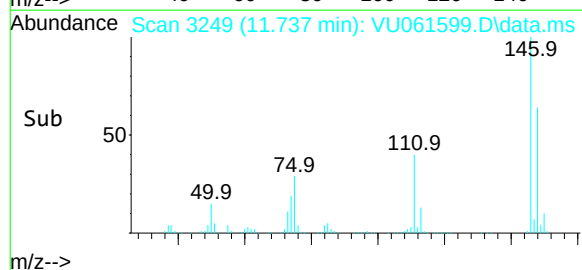
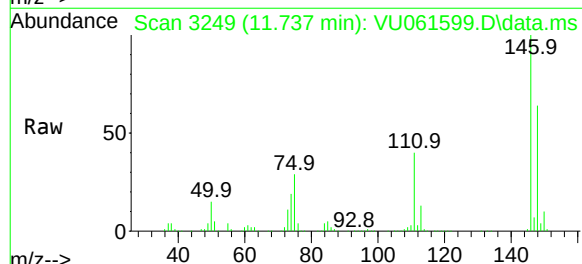
Tgt Ion:146 Resp: 324178

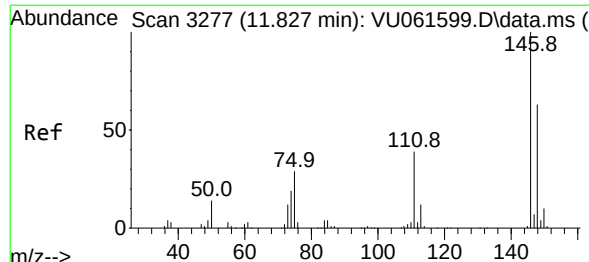
Ion Ratio Lower Upper

146 100

111 40.8 32.6 49.0

148 63.7 51.0 76.4





#83

1,4-Dichlorobenzene

Concen: 12.194 ug/l

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

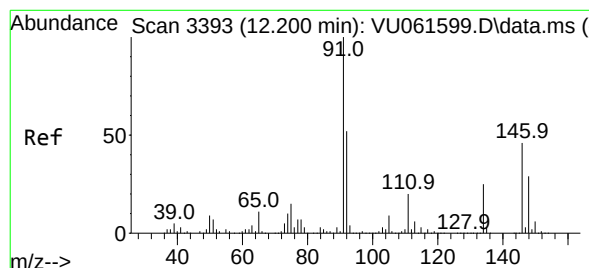
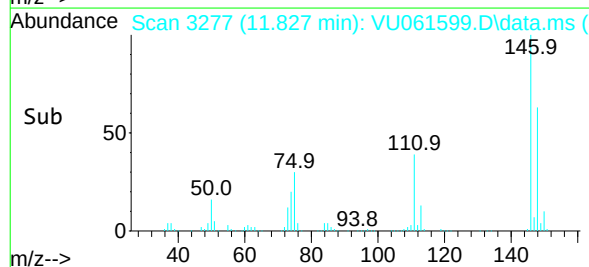
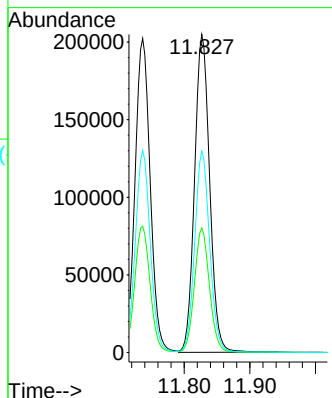
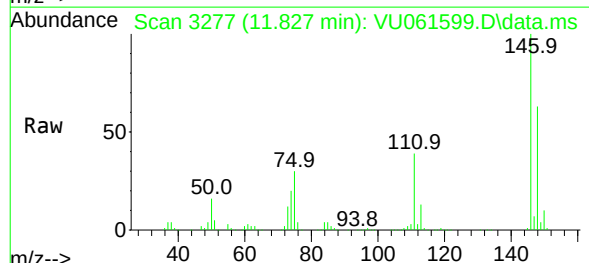
ClientSampleId :

VSTDICCC010

Tgt Ion:	146	Resp:	327001
Ion	Ratio	Lower	Upper
146	100		
111	39.0	31.2	46.8
148	62.7	50.2	75.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#84

n-Butylbenzene

Concen: 10.849 ug/l

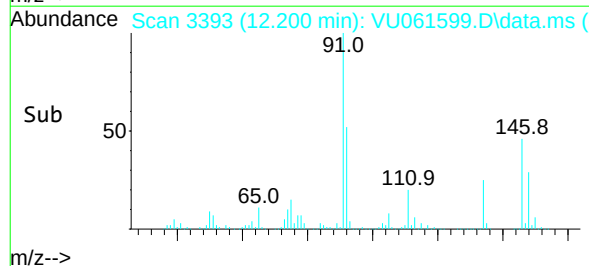
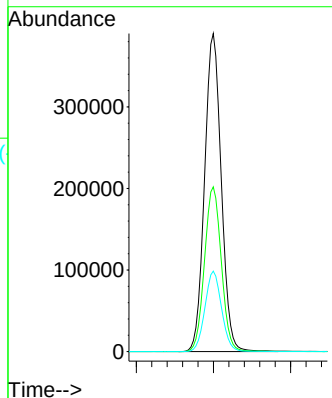
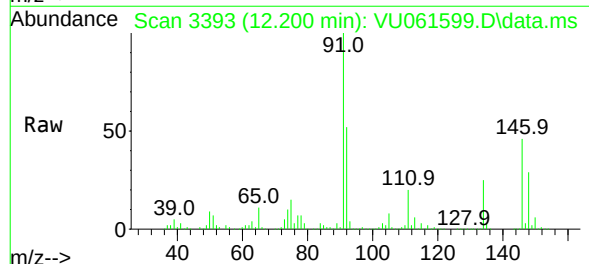
RT: 12.200 min Scan# 3393

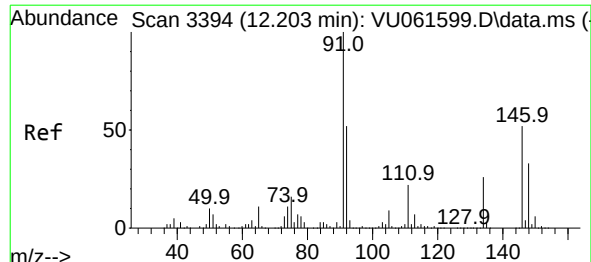
Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:	91	Resp:	585297
Ion	Ratio	Lower	Upper
91	100		
92	52.2	41.8	62.6
134	25.3	20.2	30.4





#85

1,2-Dichlorobenzene

Concen: 11.927 ug/l

RT: 12.203 min Scan# 3394

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

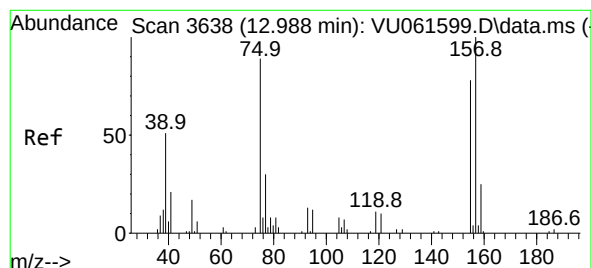
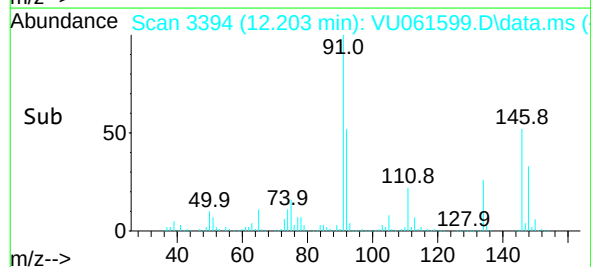
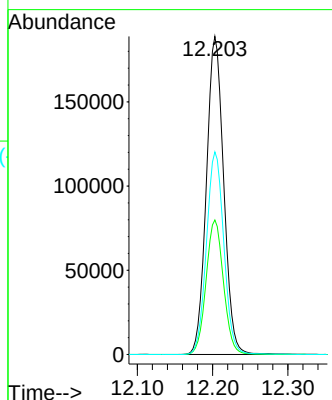
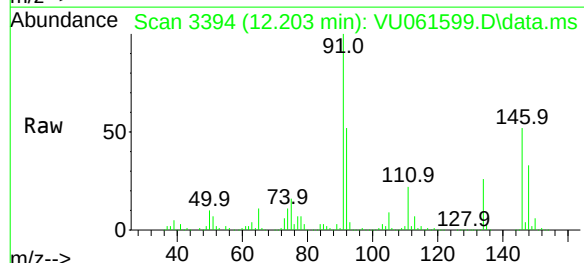
ClientSampleId :

VSTDICCC010

Tgt Ion:	146	Resp:	301571
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.3	63.9
148	64.1	32.0	96.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#86

1,2-Dibromo-3-Chloropropane

Concen: 10.477 ug/l

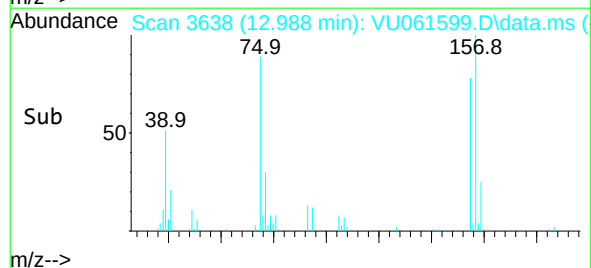
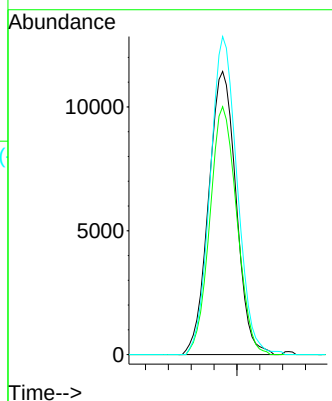
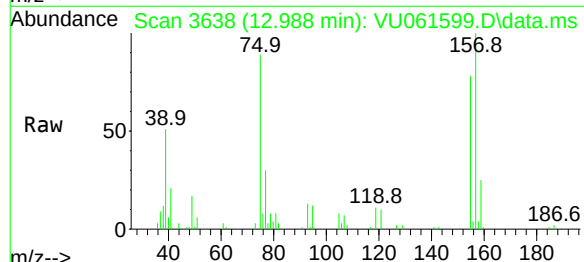
RT: 12.988 min Scan# 3638

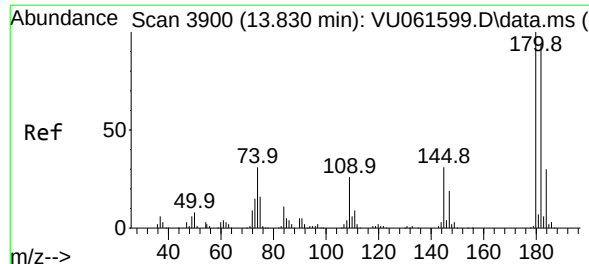
Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:	75	Resp:	19103
Ion	Ratio	Lower	Upper
75	100		
155	86.0	68.8	103.2
157	110.3	88.2	132.4





#87

1,2,4-Trichlorobenzene

Concen: 10.446 ug/l

RT: 13.830 min Scan# 3900

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

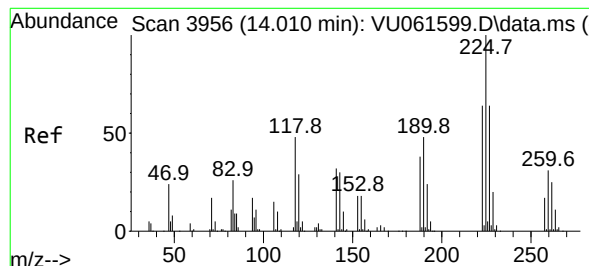
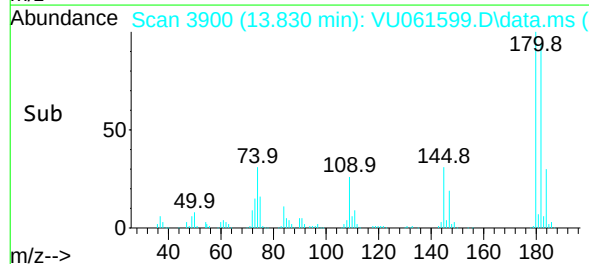
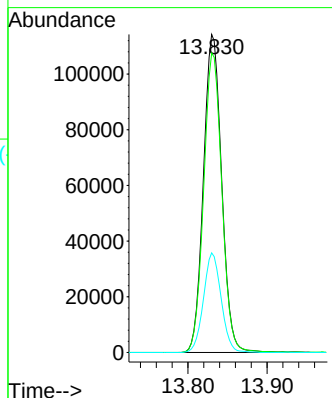
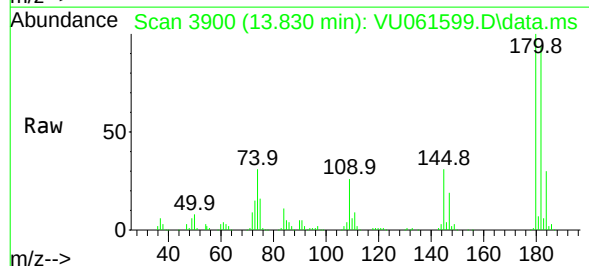
ClientSampleId :

VSTDICCC010

Tgt Ion:	180	Resp:	182547
Ion Ratio	Lower	Upper	
180	100		
182	94.1	75.3	112.9
145	30.4	24.3	36.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#88

Hexachlorobutadiene

Concen: 11.742 ug/l

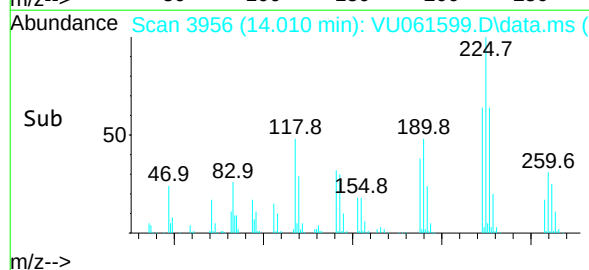
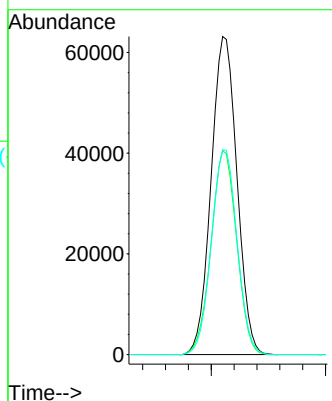
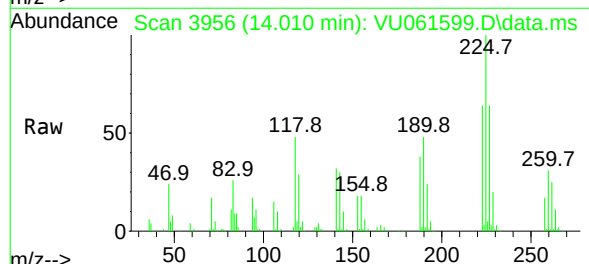
RT: 14.010 min Scan# 3956

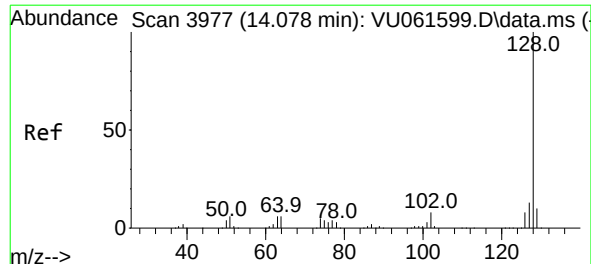
Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:	225	Resp:	99148
Ion Ratio	Lower	Upper	
225	100		
223	63.5	50.8	76.2
227	64.0	51.2	76.8





#89

Naphthalene

Concen: 10.229 ug/l

RT: 14.078 min Scan# 3977

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Instrument :

MSVOA_U

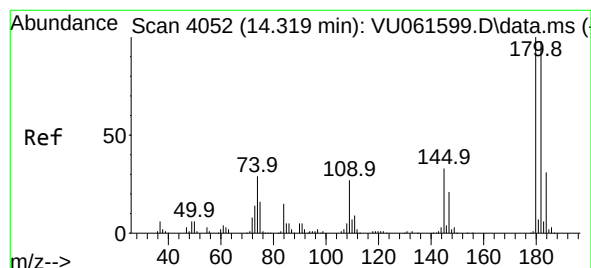
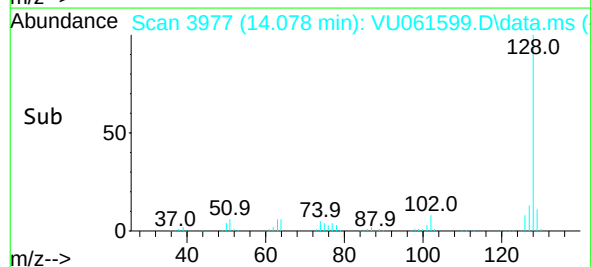
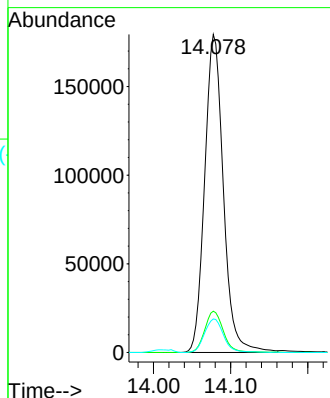
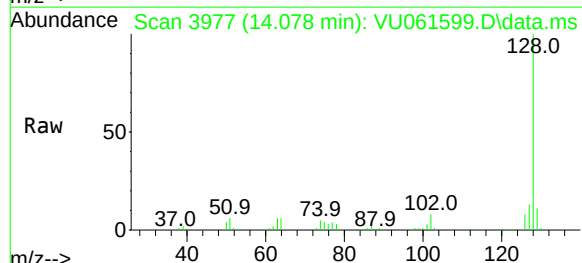
ClientSampleId :

VSTDICCC010

Tgt Ion:	128	Resp:	302297
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#90

1,2,3-Trichlorobenzene

Concen: 10.245 ug/l

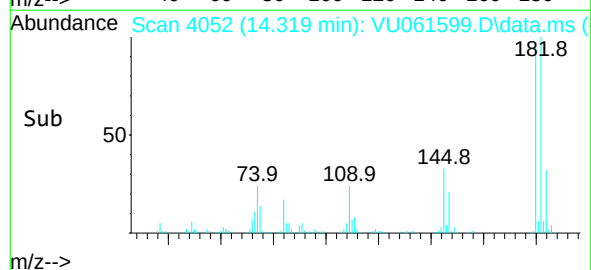
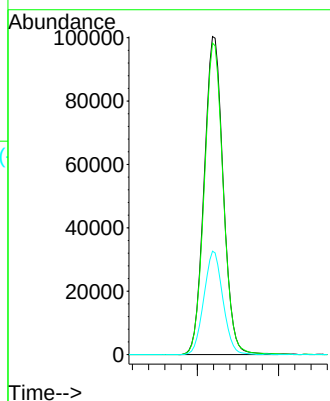
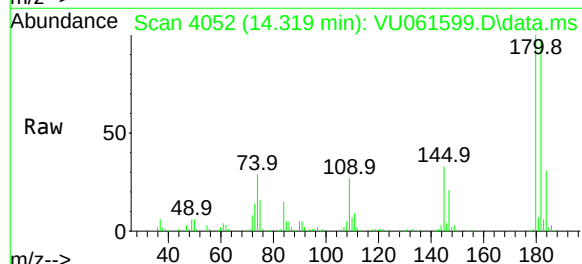
RT: 14.319 min Scan# 4052

Delta R.T. 0.000 min

Lab File: VU061599.D

Acq: 12 Nov 2024 10:46

Tgt Ion:	180	Resp:	163563
Ion	Ratio	Lower	Upper
180	100		
182	97.4	77.9	116.9
145	32.4	25.9	38.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061600.D
 Acq On : 12 Nov 2024 11:10
 Operator : MD/SY
 Sample : VSTDICC015
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:44:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.107	96	54385	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.624	95	19237	1.020	ug/l	0.00
Spiked Amount	1.000		Recovery	=	102.000%	
68) 1,2-Dichlorobenzene-d4	12.184	152	19212	1.022	ug/l	0.00
Spiked Amount	1.000		Recovery	=	102.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	201746	14.432	ug/l	100
3) Chloromethane	1.518	50	191073	14.292	ug/l	99
4) Vinyl Chloride	1.602	62	221746	14.740	ug/l	100
5) Bromomethane	1.853	94	145854	15.356	ug/l	100
6) Chloroethane	1.930	64	168321	13.835	ug/l	100
7) Trichlorofluoromethane	2.133	101	311228	14.455	ug/l	98
8) 1,1,2-Trichloro-1,2,2-...	2.573	101	167380	14.524	ug/l	100
9) 1,1-Dichloroethene	2.573	96	180168	14.922	ug/l	100
10) Iodomethane	2.715	142	218835	14.923	ug/l	99
11) Allyl Chloride	2.914	41	217281	15.552	ug/l	100
12) Acrylonitrile	3.316	53	75291	31.532	ug/l	97
13) Acetone	2.641	43	205840	61.760	ug/l	99
14) Carbon Disulfide	2.785	76	580554	14.881	ug/l	100
15) Methylene Chloride	3.036	84	216216	14.827	ug/l	99
16) trans-1,2-Dichloroethene	3.345	96	214585	15.299	ug/l	99
17) 1,1-Dichloroethane	3.856	63	376430	15.050	ug/l	100
18) 2-Butanone	4.702	43	280477	72.566	ug/l	99
19) Cyclohexane	5.380	56	310880m	15.320	ug/l	
20) Methylcyclohexane	6.753	83	360461	15.840	ug/l	99
21) 2,2-Dichloropropane	4.650	77	303796	15.102	ug/l	99
22) cis-1,2-Dichloroethene	4.653	96	237917	15.549	ug/l	100
23) Diethyl Ether	2.370	59	134737	14.972	ug/l	99
24) tert-Butyl Alcohol	3.242	59	140236	152.825	ug/l	98
25) Methyl tert-Butyl Ether	3.354	73	470253	15.888	ug/l	99
26) Bromochloromethane	4.962	128	104194	15.457	ug/l	99
27) Chloroform	5.075	83	404139	15.234	ug/l	99
28) 1,1,1-Trichloroethane	5.306	97	337258	15.387	ug/l	100
29) 1,1-Dichloropropene	5.515	75	304528	15.464	ug/l	100
30) Carbon Tetrachloride	5.515	117	296404	15.777	ug/l	99
31) Isopropyl Ether	3.978	45	531290	15.963	ug/l	99
32) Ethyl-t-butyl ether	4.489	59	513805	16.149	ug/l	100
33) Tert-Amyl methyl ether	5.930	73	472688	16.437	ug/l	99
34) Propionitrile	4.782	54	74216	82.165	ug/l	99
35) Benzene	5.763	78	902712	15.380	ug/l	99
36) 1,2-Dichloroethane	5.782	62	245826	15.072	ug/l	100
37) Trichloroethene	6.534	130	236949	15.247	ug/l	99
38) 1,2-Dichloropropane	6.779	63	228397	15.498	ug/l	100
39) Methacrylonitrile	4.962	41	53918	16.677	ug/l	97
40) Methyl acrylate	4.837	55	104109	17.791	ug/l	96
41) Tetrahydrofuran	5.052	42	56051	30.697	ug/l	96
42) 1-Chlorobutane	5.448	56	385497	15.687	ug/l	99
43) Dibromomethane	6.907	93	120336	15.419	ug/l	99
44) Bromodichloromethane	7.094	83	283267	16.072	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061600.D
 Acq On : 12 Nov 2024 11:10
 Operator : MD/SY
 Sample : VSTDICC015
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:44:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M

Quant Title : METHOD 524.2 VOLATILES DRINKING WATER

QLast Update : Wed Nov 13 04:39:24 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.782	43	573100	78.941	ug/l	99
46) t-1,4-Dichloro-2-butene	10.824	75	109775m	27.348	ug/l	
47) Methyl methacrylate	6.952	69	211728	34.181	ug/l	98
48) Ethyl methacrylate	8.325	69	219615	17.441	ug/l	100
49) Toluene	7.959	92	569394	15.886	ug/l	99
50) t-1,3-Dichloropropene	8.200	75	271100	17.191	ug/l	98
51) cis-1,3-Dichloropropene	7.599	75	332580	16.439	ug/l	100
52) 1,1,2-Trichloroethane	8.390	97	163736	15.305	ug/l	98
53) 1,3-Dichloropropane	8.563	76	282366	15.465	ug/l	99
54) 2-Hexanone	8.676	43	443067	71.629	ug/l	99
55) Dibromochloromethane	8.798	129	200414	17.305	ug/l	99
56) 1,2-Dibromoethane	8.914	107	158995	15.813	ug/l	99
58) Tetrachloroethene	8.544	164	208495	14.913	ug/l	99
59) Chlorobenzene	9.438	112	630777	15.930	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.525	131	214980	16.451	ug/l	99
61) Pentachloroethane	11.418	117	165939	16.877	ug/l	98
62) Hexachloroethane	12.467	117	159260	14.654	ug/l	98
63) Ethyl Benzene	9.560	91	1085838	16.288	ug/l	99
64) m/p-Xylenes	9.685	106	851199	33.156	ug/l	100
65) o-Xylene	10.090	106	413105	16.502	ug/l	99
66) Styrene	10.103	104	671785	14.574	ug/l	100
67) Bromoform	10.280	173	108874	18.122	ug/l	99
69) Isopropylbenzene	10.473	105	969099	16.551	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.772	83	207515	15.752	ug/l	100
71) 1,2,3-Trichloropropane	10.814	75	167095m	15.565	ug/l	
72) Bromobenzene	10.772	156	255250	16.442	ug/l	99
73) n-propylbenzene	10.897	120	294233	16.998	ug/l	98
74) 2-Chlorotoluene	10.978	126	255225	16.526	ug/l	97
75) 1,3,5-Trimethylbenzene	11.078	105	893965	16.865	ug/l	100
76) 4-Chlorotoluene	11.087	126	267767	16.856	ug/l	98
77) tert-Butylbenzene	11.412	119	872688	16.864	ug/l	99
78) 1,2,4-Trimethylbenzene	11.457	105	906544	14.484	ug/l	100
79) sec-Butylbenzene	11.634	105	1140390	16.624	ug/l	99
80) Nitrobenzene	13.200	77	18918m	74.585	ug/l	
81) p-Isopropyltoluene	11.785	119	956073	14.469	ug/l	100
82) 1,3-Dichlorobenzene	11.737	146	490377	16.332	ug/l	99
83) 1,4-Dichlorobenzene	11.827	146	492781	16.396	ug/l	99
84) n-Butylbenzene	12.200	91	881289	14.485	ug/l	100
85) 1,2-Dichlorobenzene	12.203	146	464977	16.408	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.987	75	30489	14.760	ug/l	98
87) 1,2,4-Trichlorobenzene	13.830	180	294264	14.831	ug/l	98
88) Hexachlorobutadiene	14.010	225	155334	16.413	ug/l	99
89) Naphthalene	14.077	128	506732	15.006	ug/l	100
90) 1,2,3-Trichlorobenzene	14.319	180	271334	14.945	ug/l	98

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

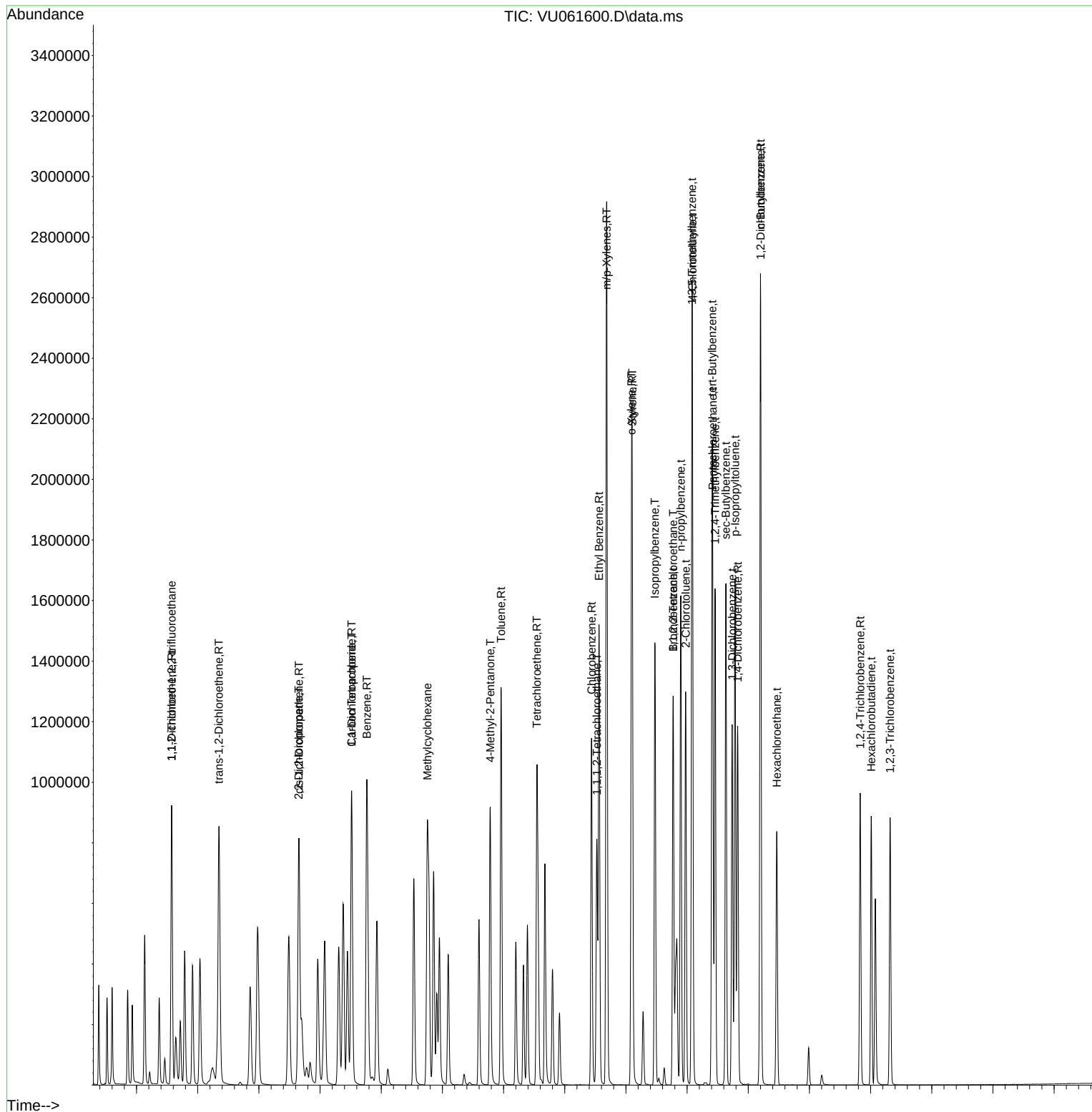
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Data File : VU061600.D
Acq On : 12 Nov 2024 11:10
Operator : MD/SY
Sample : VSTDIC015
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

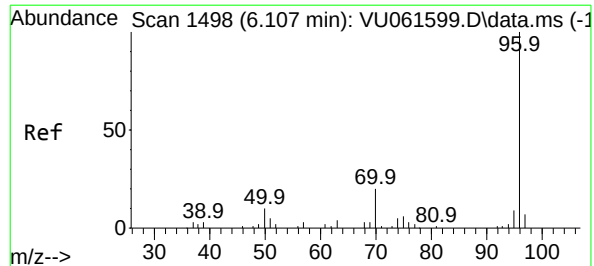
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 04:44:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 04:39:24 2024
Response via : Initial Calibration





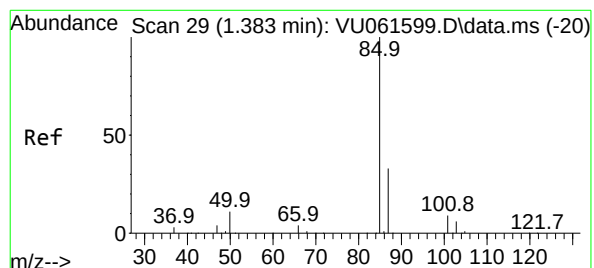
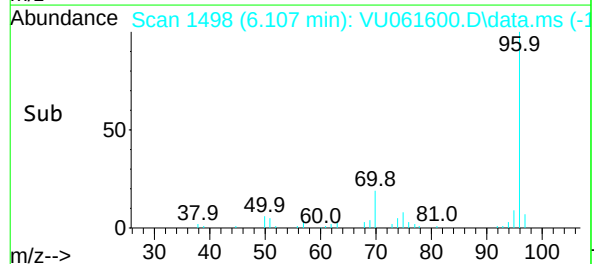
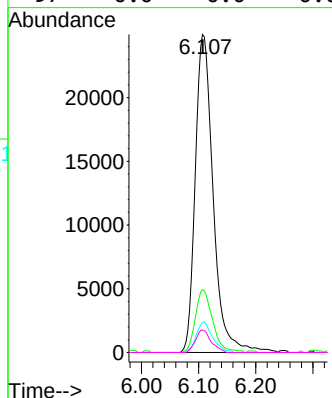
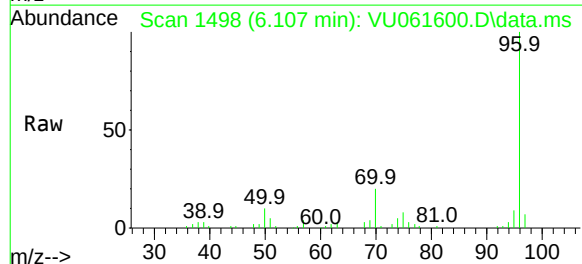
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 1498
Delta R.T. -0.000 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Tgt Ion	Ratio	Lower	Upper
96	100		
70	19.0	15.8	23.6
95	8.8	7.3	10.9
97	0.0	0.0	0.0

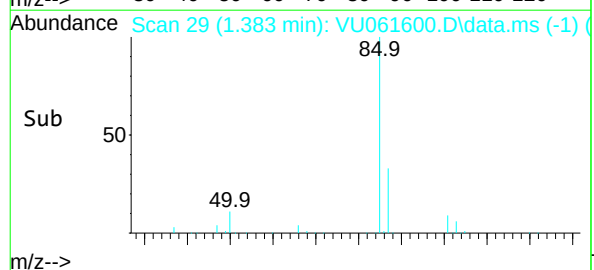
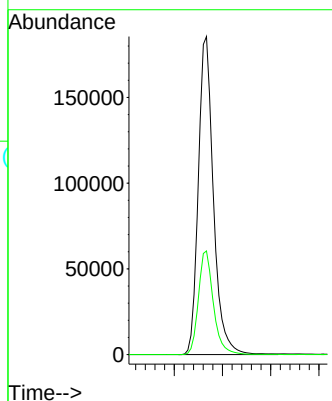
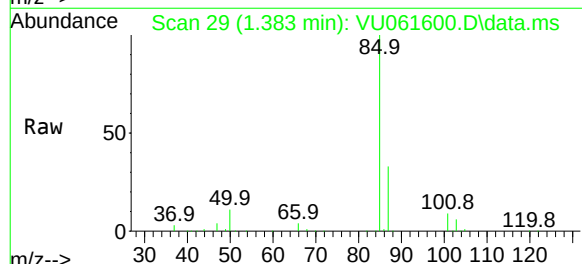
Manual Integrations
APPROVED

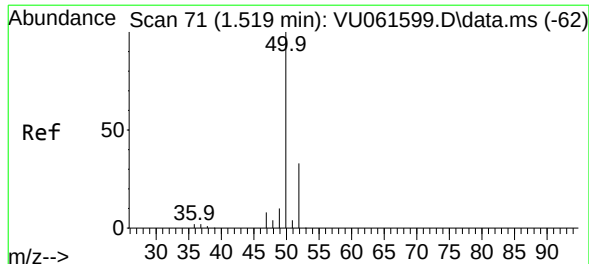
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#2
Dichlorodifluoromethane
Concen: 14.432 ug/l
RT: 1.383 min Scan# 29
Delta R.T. -0.000 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.4	49.2





#3

Chloromethane

Concen: 14.292 ug/l

RT: 1.518 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 50 Resp: 191073

Ion Ratio Lower Upper

50 100

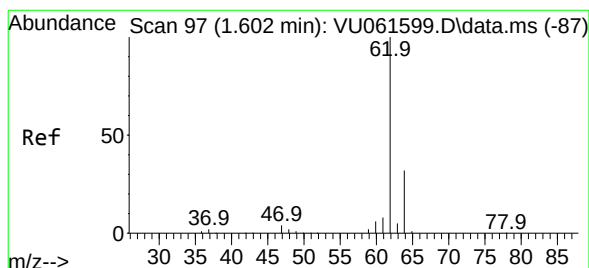
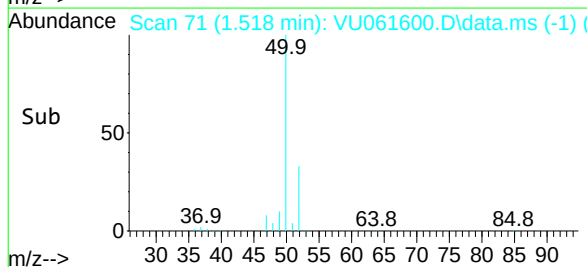
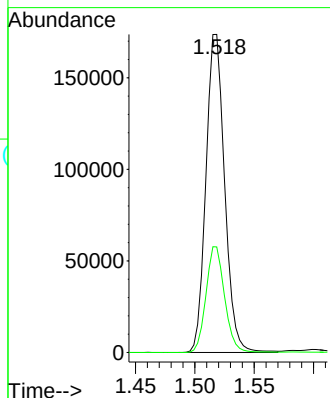
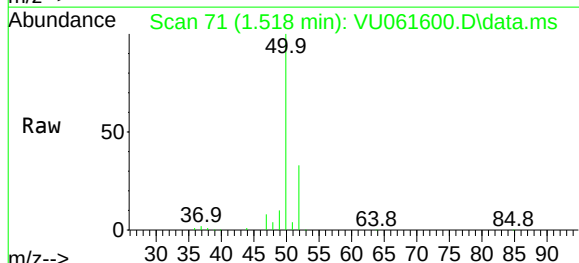
52 33.2 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 14.740 ug/l

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU061600.D

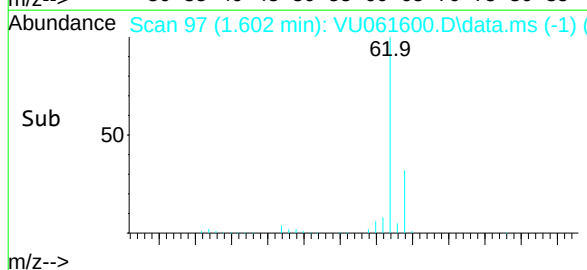
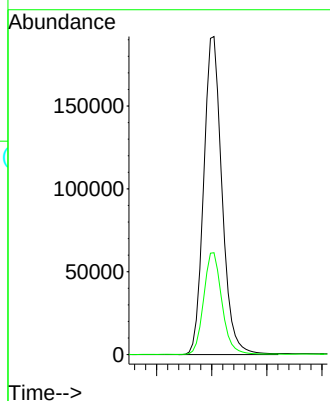
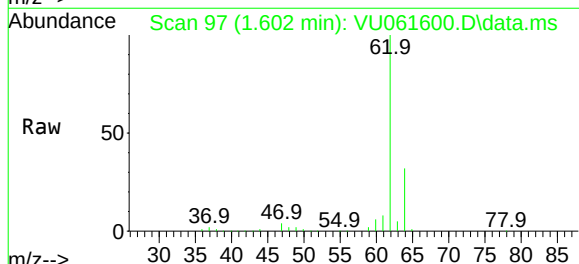
Acq: 12 Nov 2024 11:10

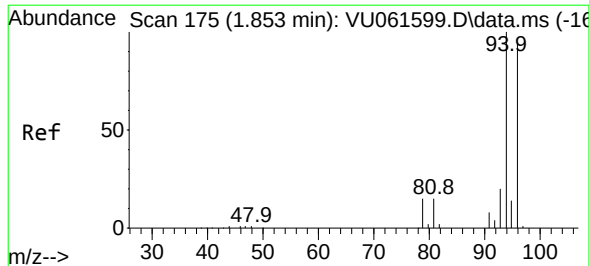
Tgt Ion: 62 Resp: 221746

Ion Ratio Lower Upper

62 100

64 32.0 25.6 38.4





#5

Bromomethane

Concen: 15.356 ug/l

RT: 1.853 min Scan# 175

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 94 Resp: 145854

Ion Ratio Lower Upper

94 100

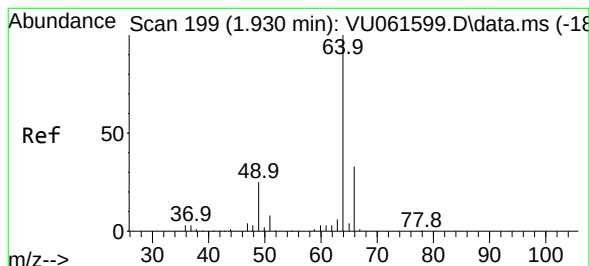
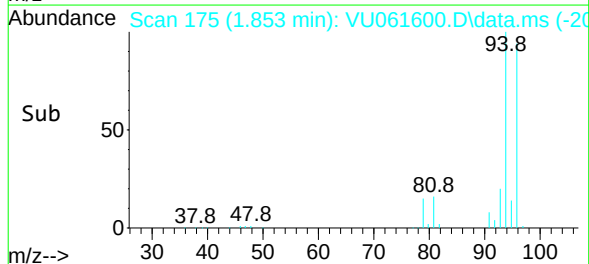
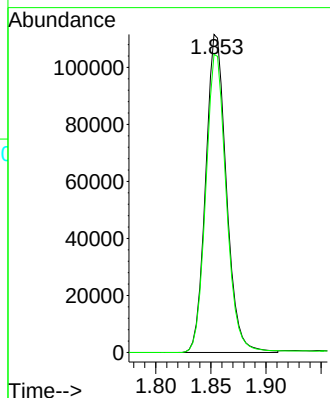
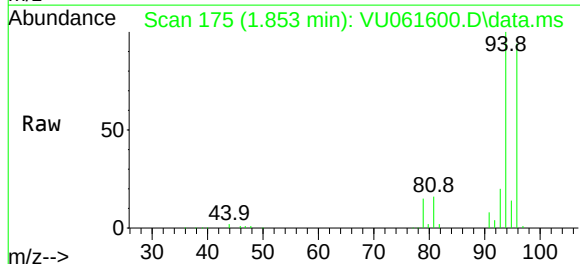
96 93.7 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#6

Chloroethane

Concen: 13.835 ug/l

RT: 1.930 min Scan# 199

Delta R.T. -0.000 min

Lab File: VU061600.D

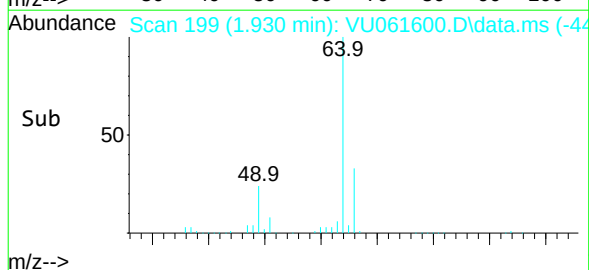
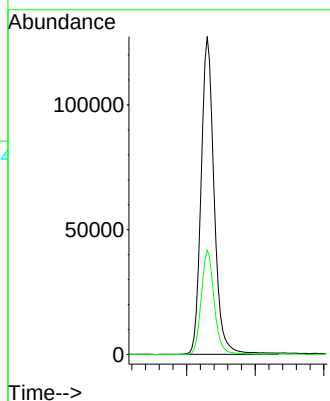
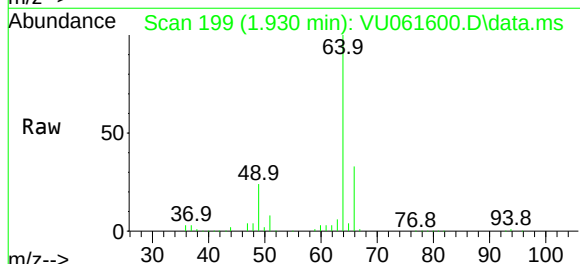
Acq: 12 Nov 2024 11:10

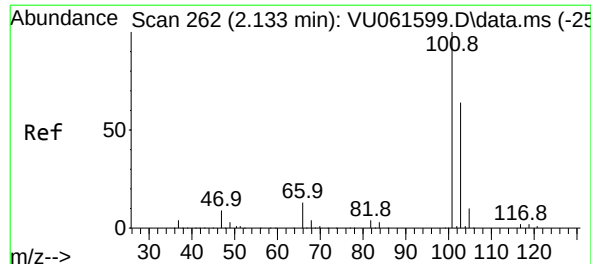
Tgt Ion: 64 Resp: 168321

Ion Ratio Lower Upper

64 100

66 32.8 26.2 39.2





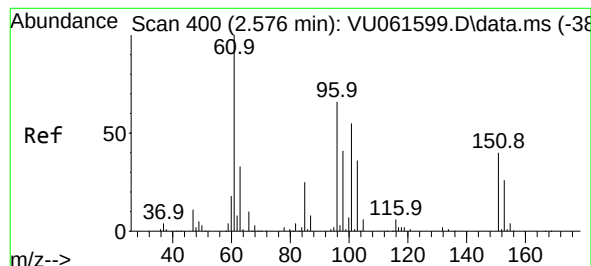
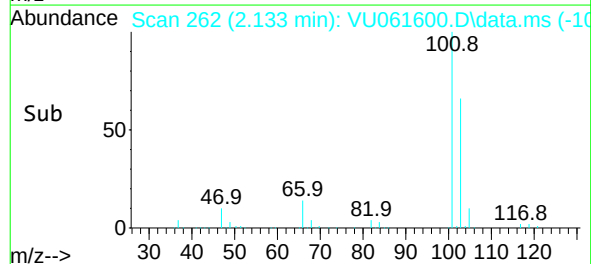
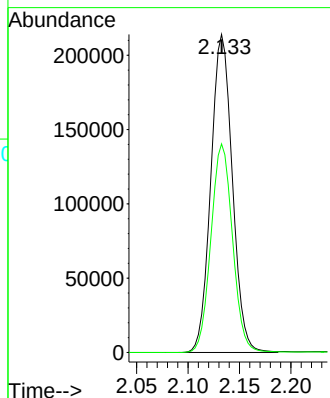
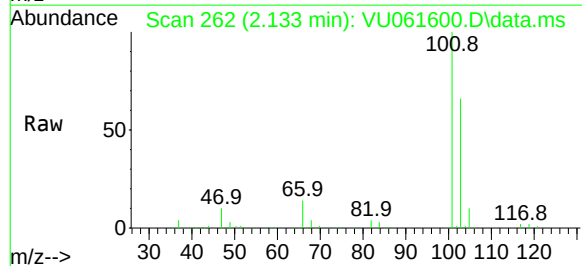
#7
Trichlorofluoromethane
Concen: 14.455 ug/l
RT: 2.133 min Scan# 262
Delta R.T. -0.000 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 311228
Ion Ratio Lower Upper
101 100
103 65.6 51.4 77.2

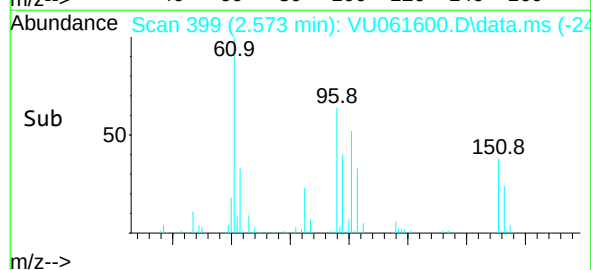
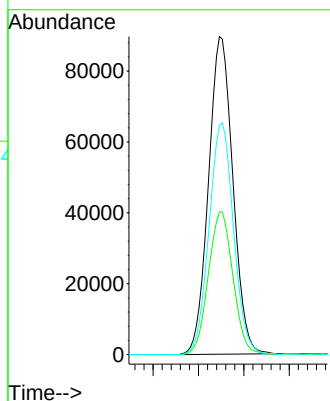
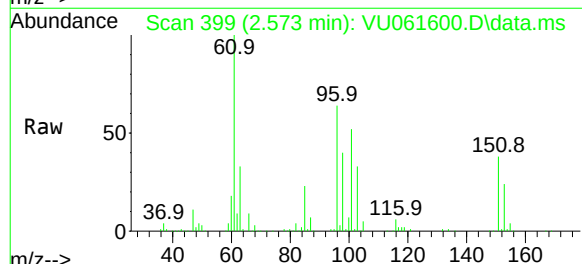
Manual Integrations
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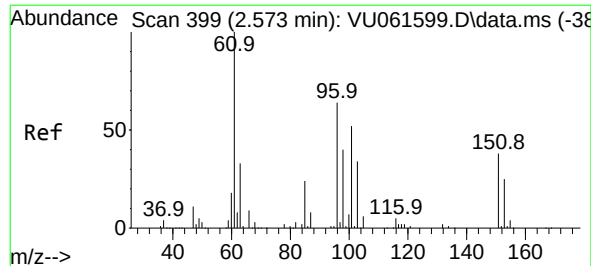
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 14.524 ug/l
RT: 2.573 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Tgt Ion:101 Resp: 167380
Ion Ratio Lower Upper
101 100
85 45.1 36.0 54.0
151 73.5 58.6 87.8





#9

1,1-Dichloroethene

Concen: 14.922 ug/l

RT: 2.573 min Scan# 399

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 96 Resp: 180168

Ion Ratio Lower Upper

96 100

61 155.3 0.0 467.7

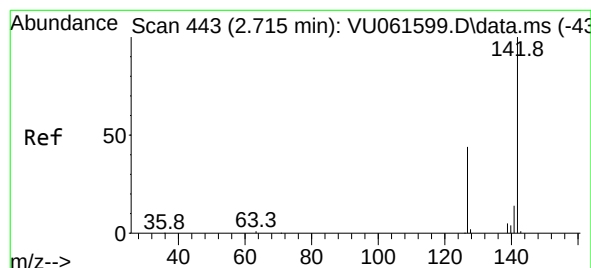
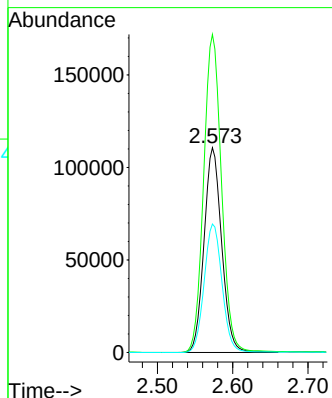
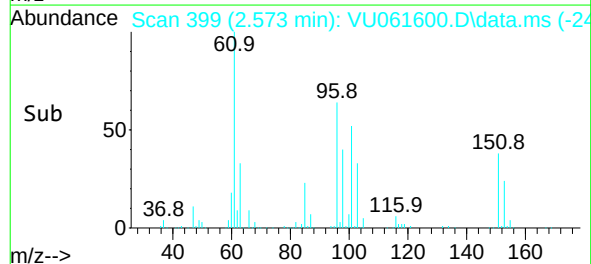
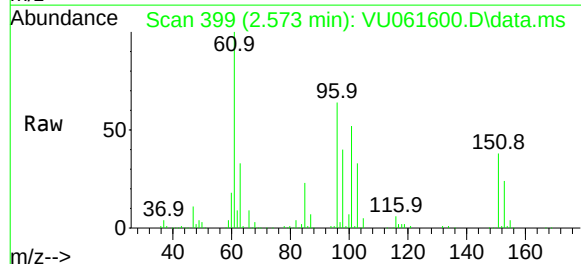
98 62.7 0.0 125.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#10

Iodomethane

Concen: 14.923 ug/l

RT: 2.715 min Scan# 443

Delta R.T. -0.000 min

Lab File: VU061600.D

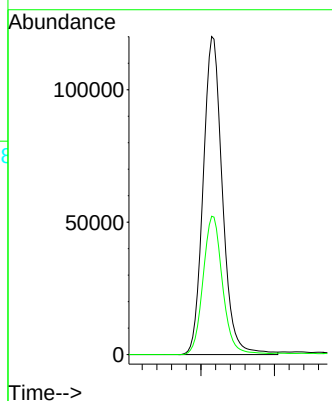
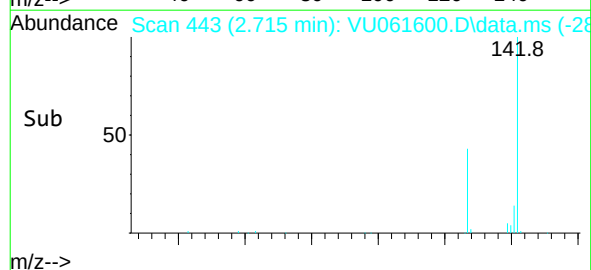
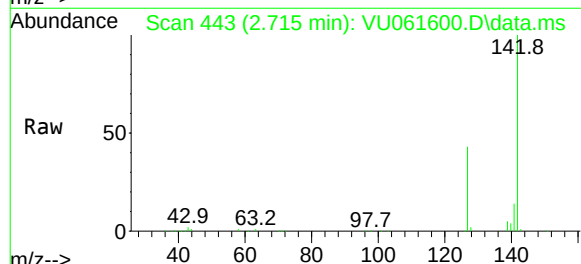
Acq: 12 Nov 2024 11:10

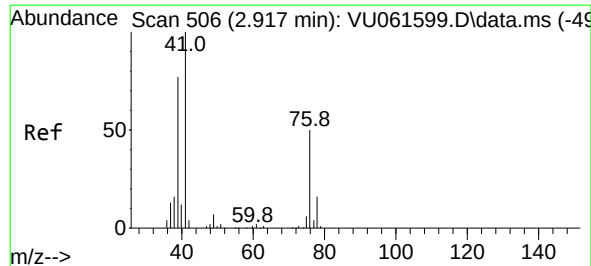
Tgt Ion:142 Resp: 218835

Ion Ratio Lower Upper

142 100

127 44.0 34.8 52.2





#11

Allyl Chloride

Concen: 15.552 ug/l

RT: 2.914 min Scan# 506

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Tgt Ion: 41 Resp: 217281

Ion Ratio Lower Upper

41 100

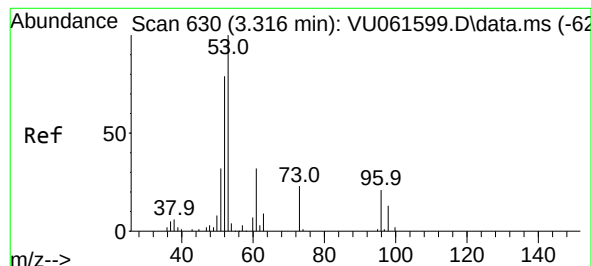
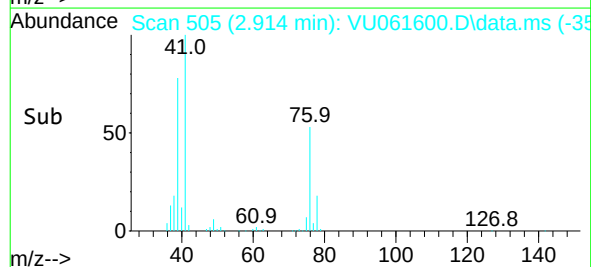
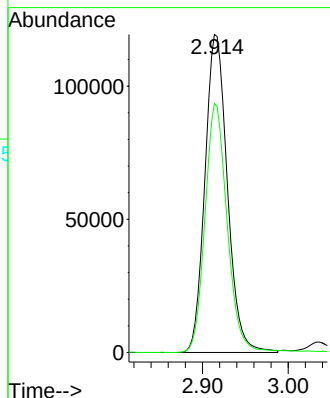
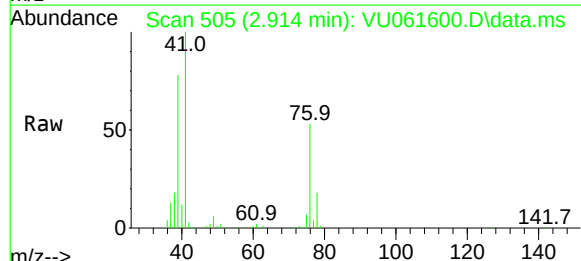
39 77.7 62.2 93.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#12

Acrylonitrile

Concen: 31.532 ug/l

RT: 3.316 min Scan# 630

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

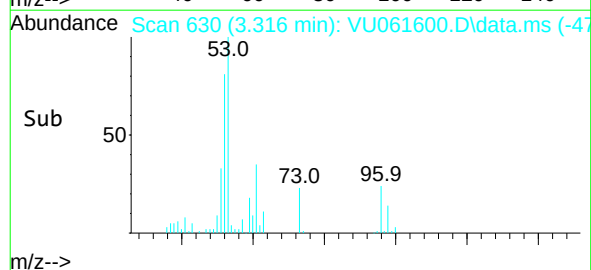
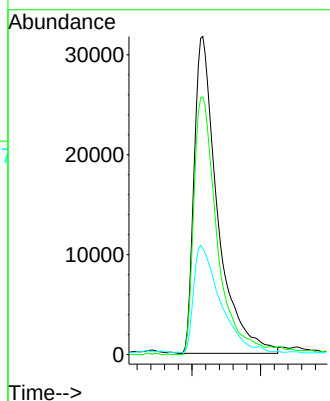
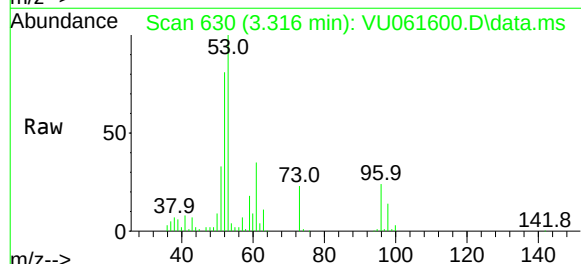
Tgt Ion: 53 Resp: 75291

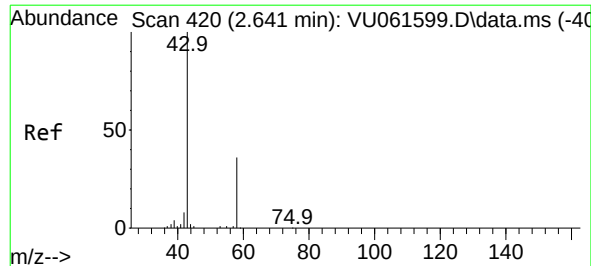
Ion Ratio Lower Upper

53 100

52 80.7 62.1 93.1

51 37.4 30.9 46.3





#13

Acetone

Concen: 61.760 ug/l

RT: 2.641 min Scan# 42

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion: 43 Resp: 205840

Ion Ratio Lower Upper

43 100

58 36.4 28.5 42.7

Instrument :

MSVOA_U

ClientSampleId :

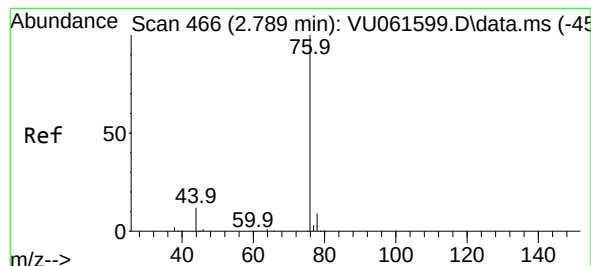
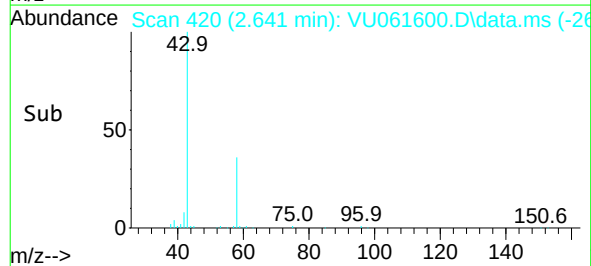
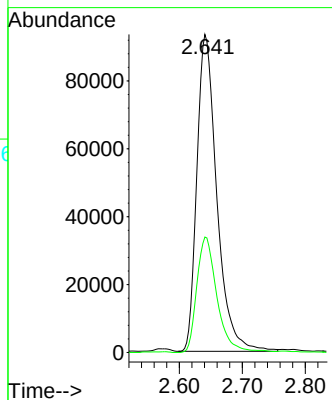
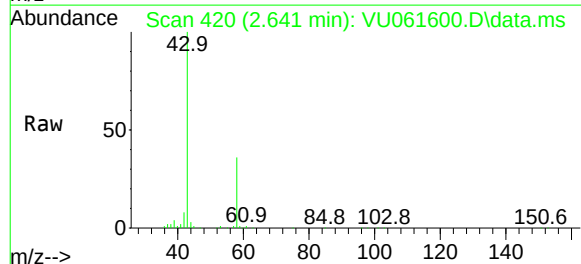
VSTDICC015

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#14

Carbon Disulfide

Concen: 14.881 ug/l

RT: 2.785 min Scan# 465

Delta R.T. -0.003 min

Lab File: VU061600.D

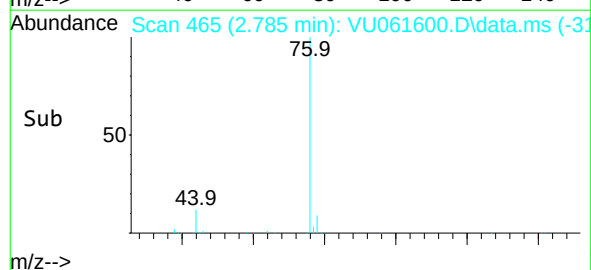
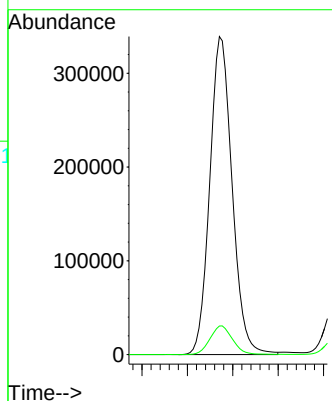
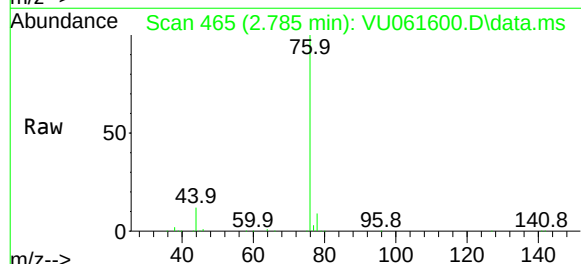
Acq: 12 Nov 2024 11:10

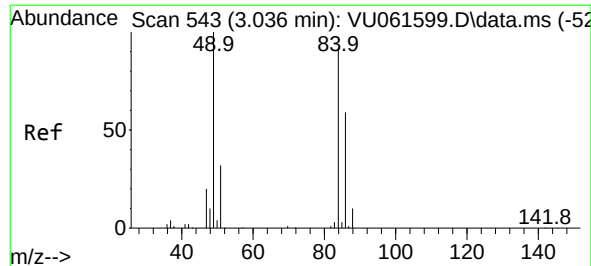
Tgt Ion: 76 Resp: 580554

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methylene Chloride

Concen: 14.827 ug/l

RT: 3.036 min Scan# 543

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 84 Resp: 216216

Ion Ratio Lower Upper

84 100

49 108.3 87.4 131.0

51 33.5 0.0 69.6

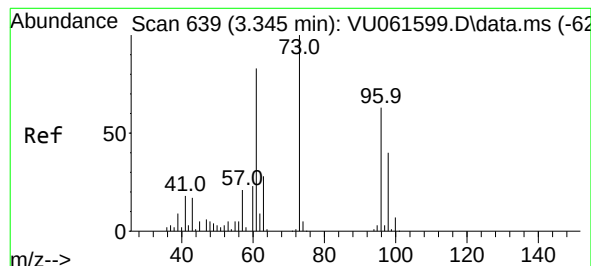
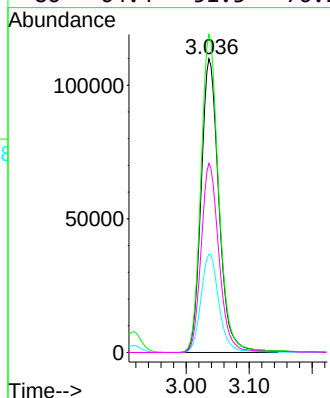
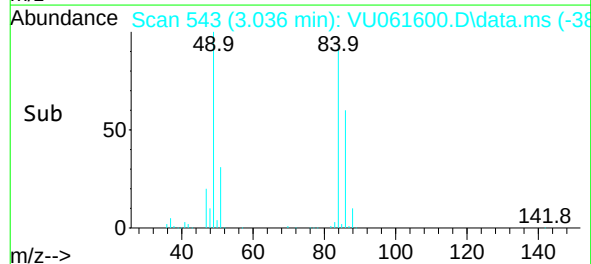
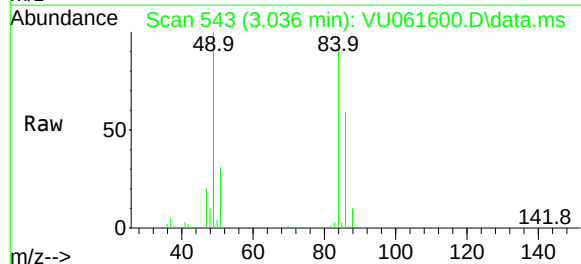
86 64.4 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#16

trans-1,2-Dichloroethene

Concen: 15.299 ug/l

RT: 3.345 min Scan# 639

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

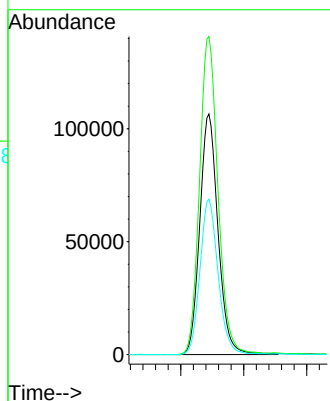
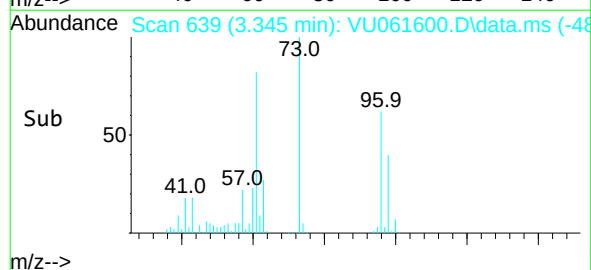
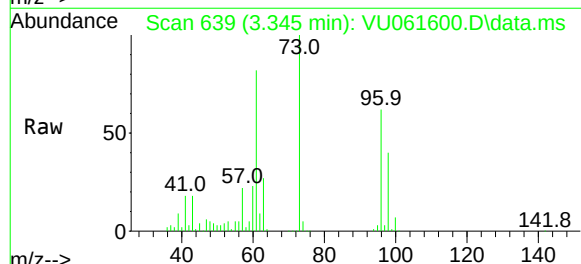
Tgt Ion: 96 Resp: 214585

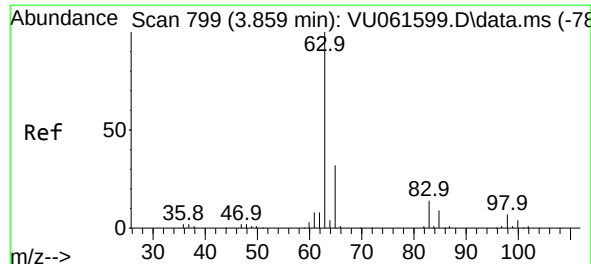
Ion Ratio Lower Upper

96 100

61 132.0 105.0 157.4

98 64.6 50.4 75.6





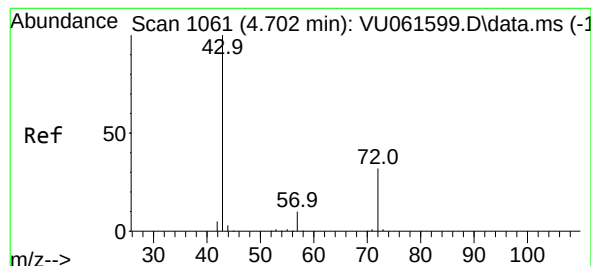
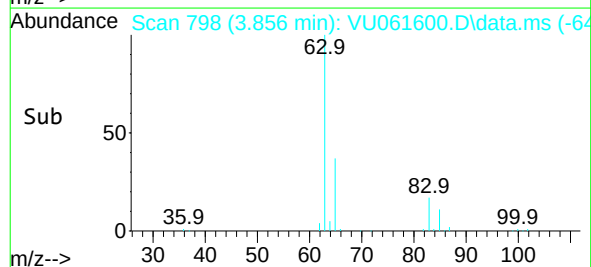
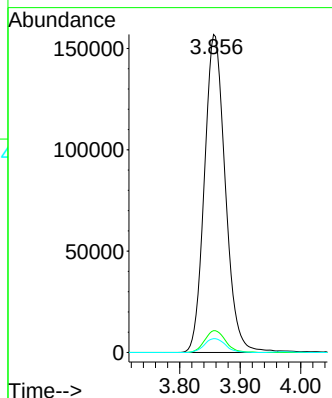
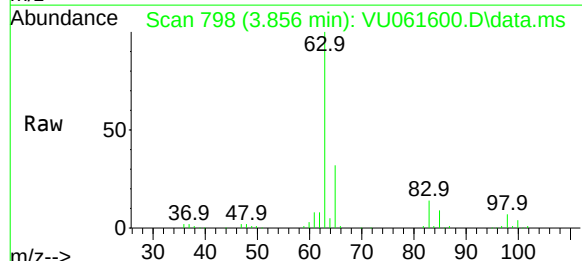
#17
1,1-Dichloroethane
Concen: 15.050 ug/l
RT: 3.856 min Scan# 799
Delta R.T. -0.003 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015

Tgt Ion: 63 Resp: 376430
Ion Ratio Lower Upper
63 100
98 6.9 3.4 10.2
100 4.3 2.2 6.6

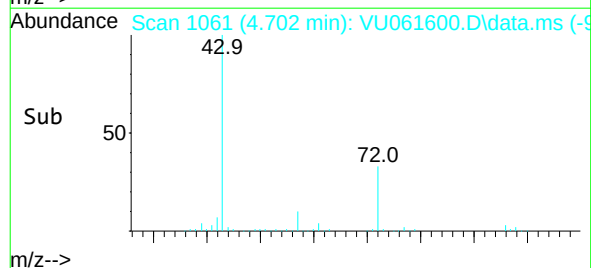
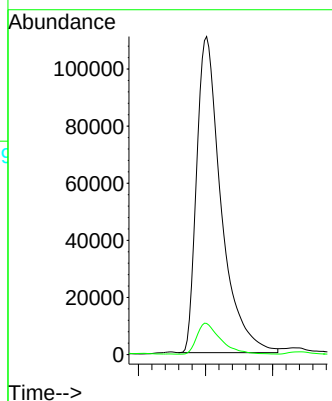
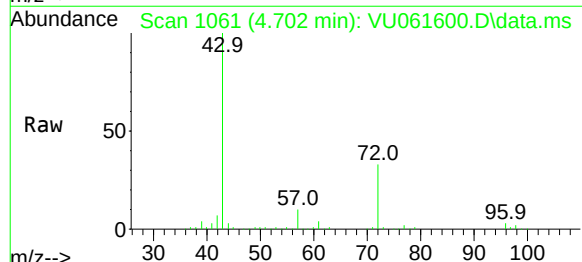
Manual Integrations
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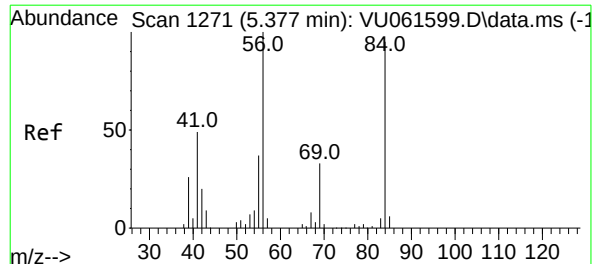
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#18
2-Butanone
Concen: 72.566 ug/l
RT: 4.702 min Scan# 1061
Delta R.T. -0.000 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Tgt Ion: 43 Resp: 280477
Ion Ratio Lower Upper
43 100
57 9.7 0.0 20.0





#19

Cyclohexane

Concen: 15.320 ug/l m

RT: 5.380 min Scan# 1271

Delta R.T. 0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 56 Resp: 310880

Ion Ratio Lower Upper

56 100

69 32.5 26.3 39.5

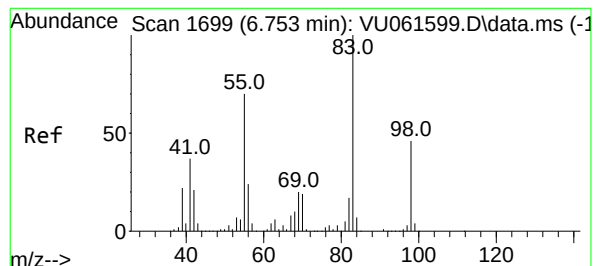
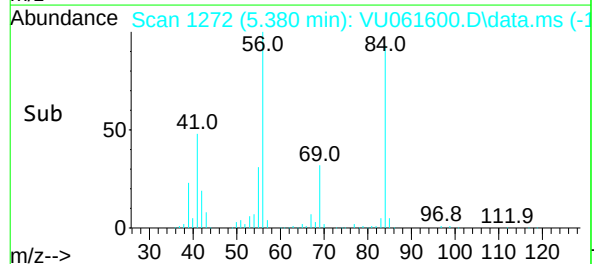
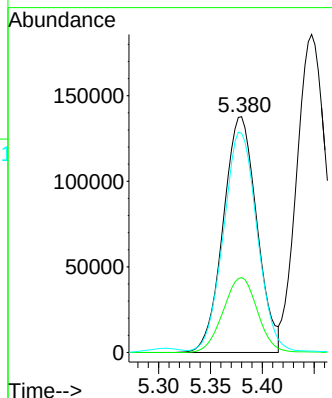
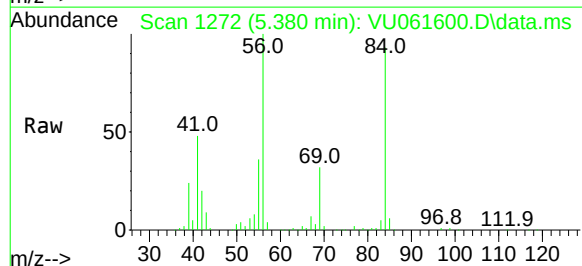
84 92.3 73.4 110.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#20

Methylcyclohexane

Concen: 15.840 ug/l

RT: 6.753 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

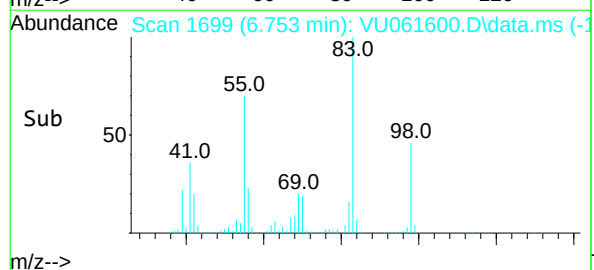
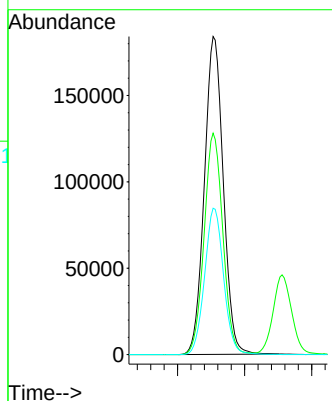
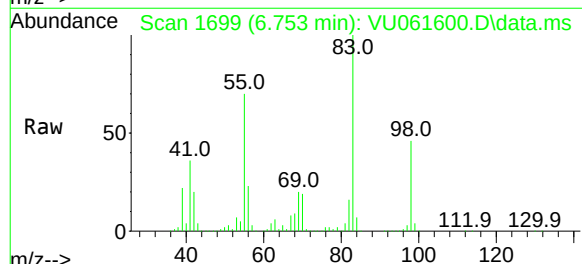
Tgt Ion: 83 Resp: 360461

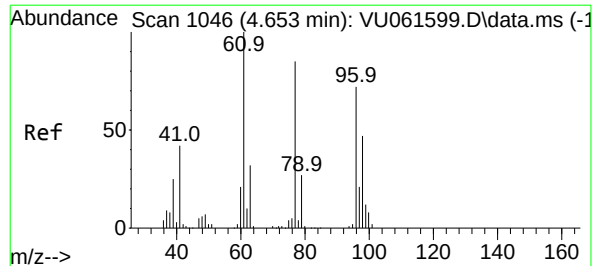
Ion Ratio Lower Upper

83 100

55 68.4 55.5 83.3

98 46.2 36.8 55.2





#21

2,2-Dichloropropane

Concen: 15.102 ug/l

RT: 4.650 min Scan# 1045

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Tgt Ion: 77 Resp: 303796

Ion Ratio Lower Upper

77 100

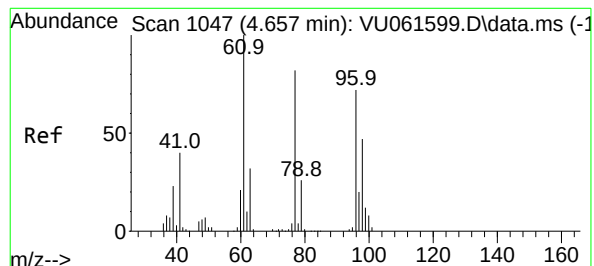
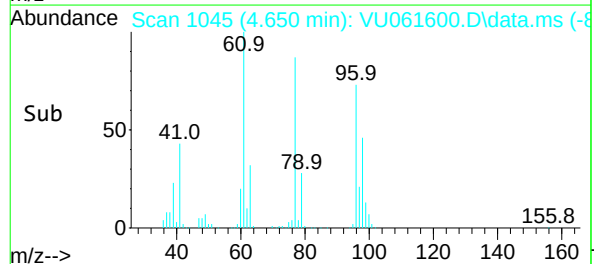
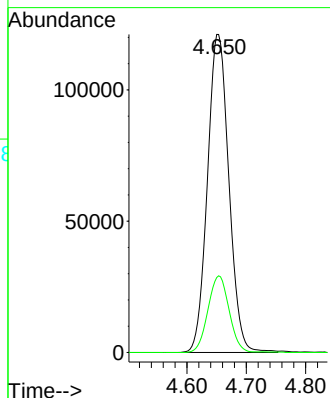
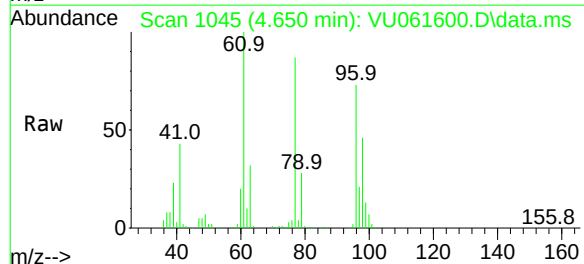
97 23.8 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#22

cis-1,2-Dichloroethene

Concen: 15.549 ug/l

RT: 4.653 min Scan# 1046

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

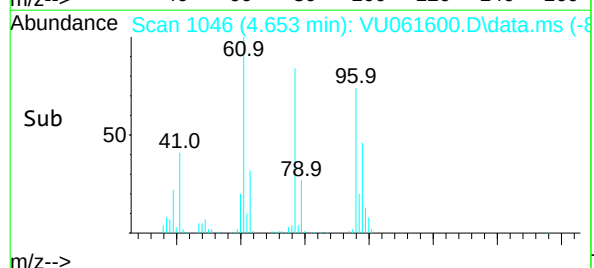
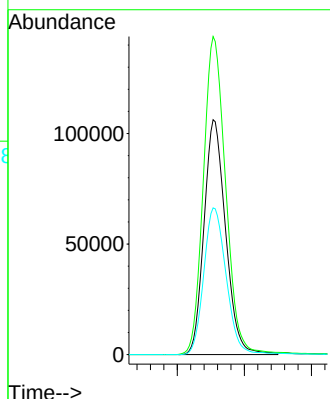
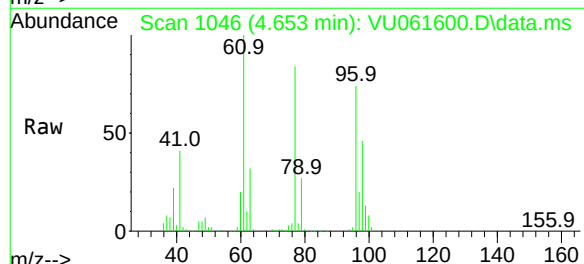
Tgt Ion: 96 Resp: 237917

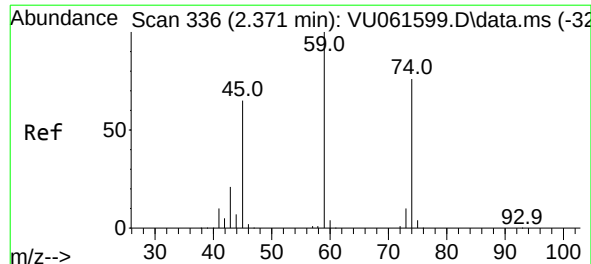
Ion Ratio Lower Upper

96 100

61 140.2 0.0 349.5

98 64.6 32.5 97.5





#23

Diethyl Ether

Concen: 14.972 ug/l

RT: 2.370 min Scan# 33

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

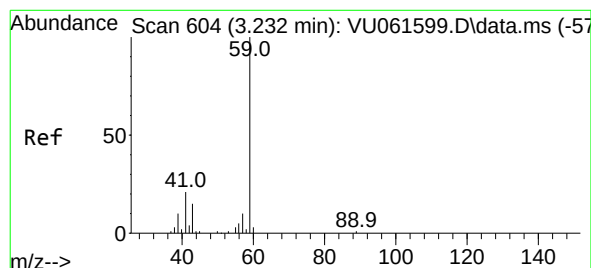
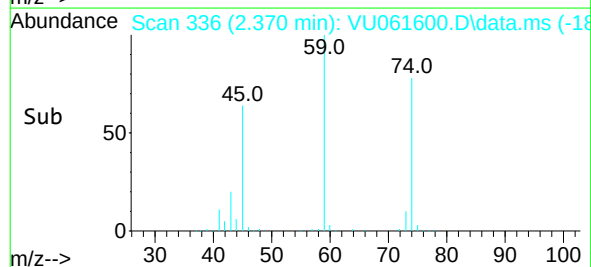
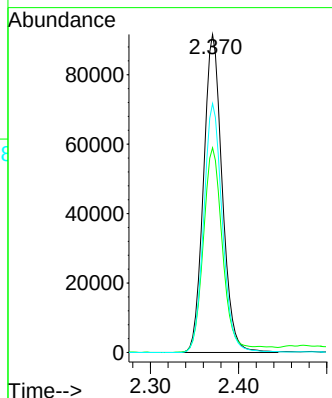
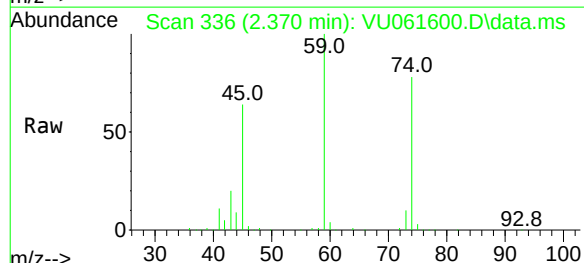
ClientSampleId :

VSTDICC015

Tgt Ion:	59	Resp:	134737
Ion	Ratio	Lower	Upper
59	100		
45	66.2	53.8	80.6
74	78.1	62.1	93.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#24

tert-Butyl Alcohol

Concen: 152.825 ug/l

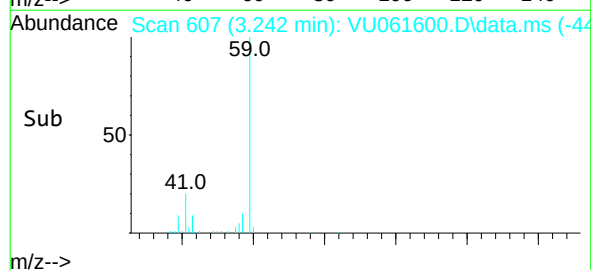
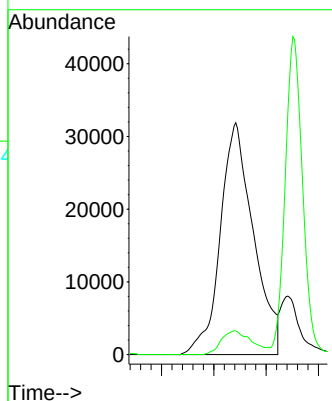
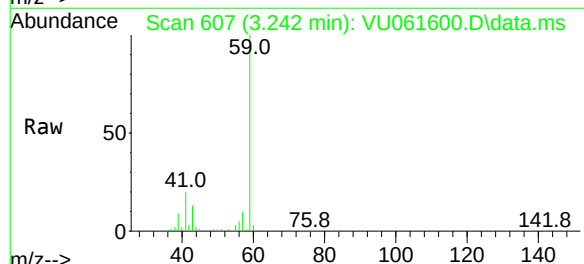
RT: 3.242 min Scan# 607

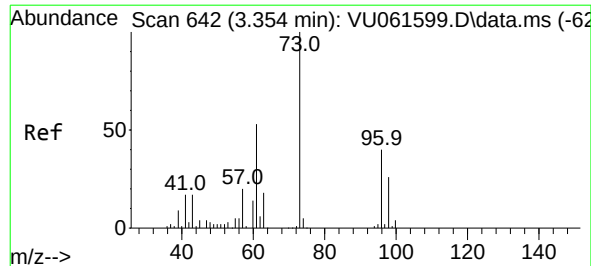
Delta R.T. 0.010 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	59	Resp:	140236
Ion	Ratio	Lower	Upper
59	100		
57	9.3	7.9	11.9





#25

Methyl tert-Butyl Ether

Concen: 15.888 ug/l

RT: 3.354 min Scan# 642

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 73 Resp: 470253

Ion Ratio Lower Upper

73 100

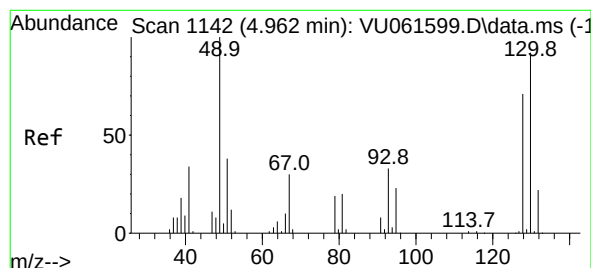
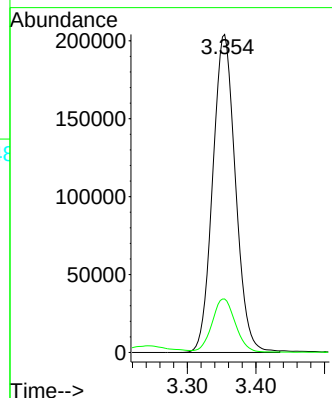
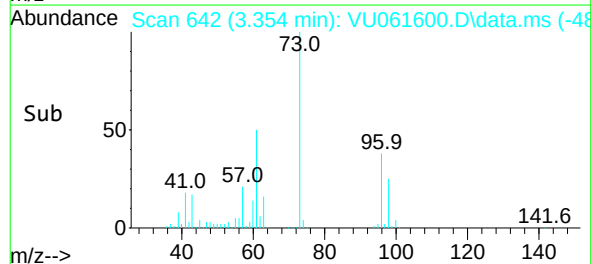
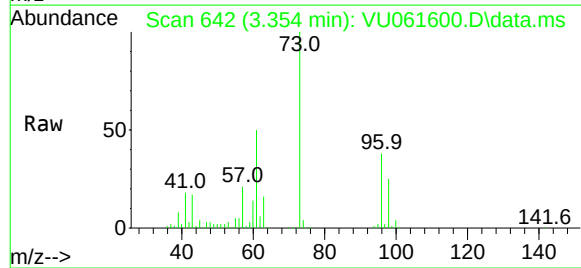
43 17.4 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#26

Bromochloromethane

Concen: 15.457 ug/l

RT: 4.962 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

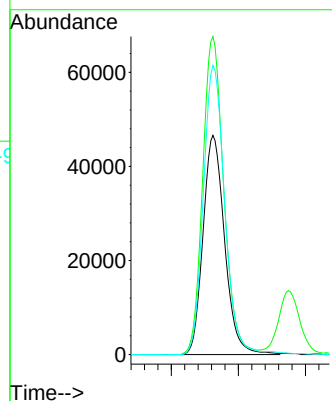
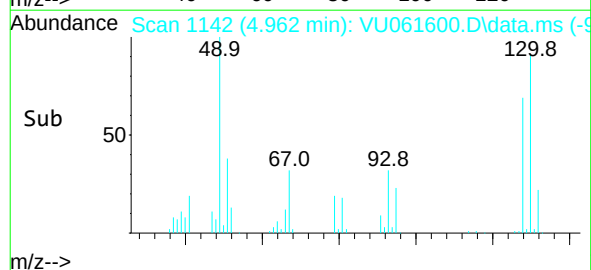
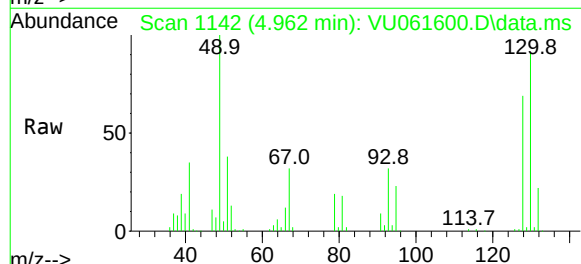
Tgt Ion:128 Resp: 104194

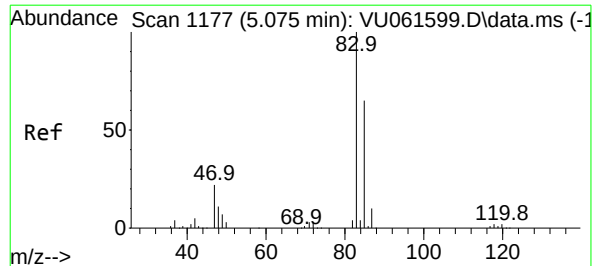
Ion Ratio Lower Upper

128 100

49 141.8 0.0 288.8

130 129.8 103.6 155.4





#27

Chloroform

Concen: 15.234 ug/l

RT: 5.075 min Scan# 1177

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 404139

Ion Ratio Lower Upper

83 100

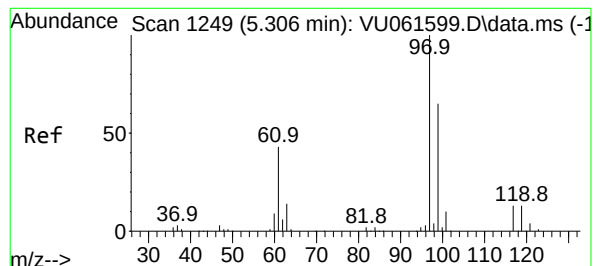
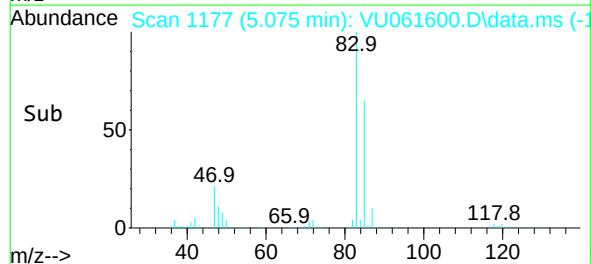
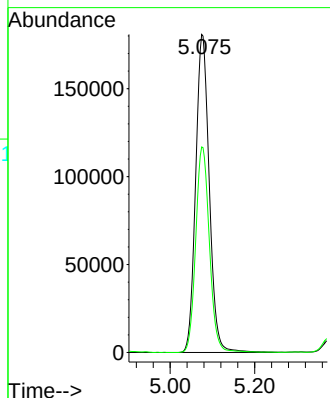
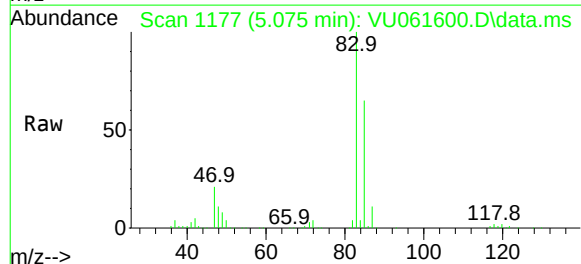
85 64.6 0.0 130.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#28

1,1,1-Trichloroethane

Concen: 15.387 ug/l

RT: 5.306 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

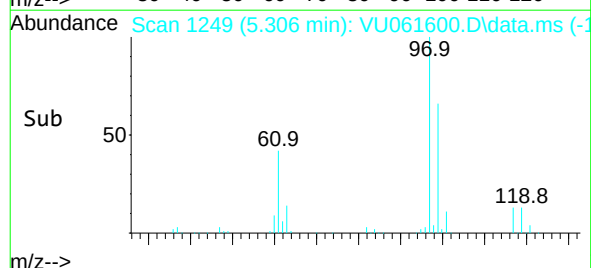
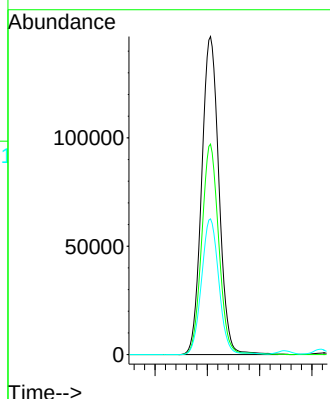
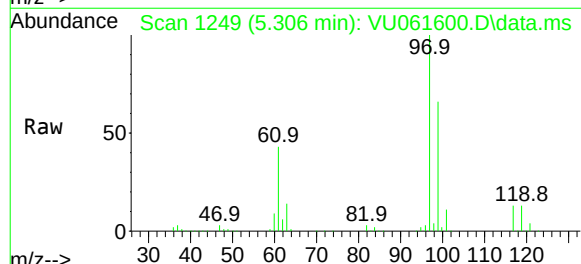
Tgt Ion: 97 Resp: 337258

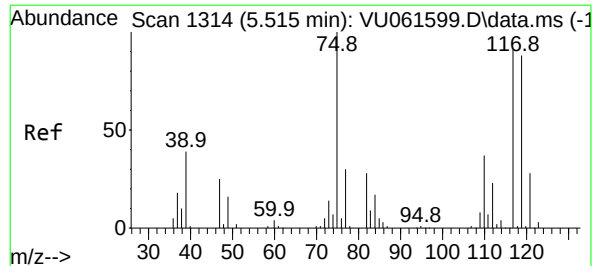
Ion Ratio Lower Upper

97 100

99 64.6 32.1 96.5

61 43.0 21.7 65.1





#29

1,1-Dichloropropene

Concen: 15.464 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 75 Resp: 304528

Ion Ratio Lower Upper

75 100

110 36.2 17.9 53.8

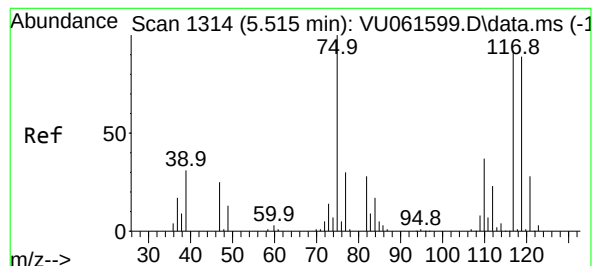
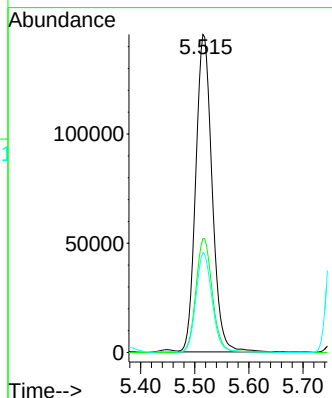
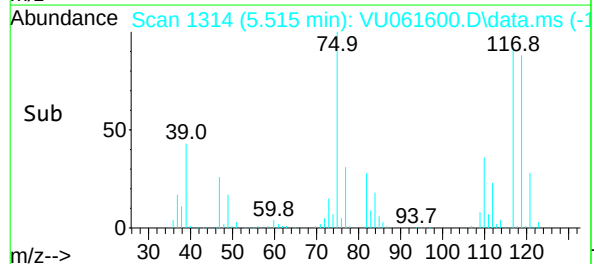
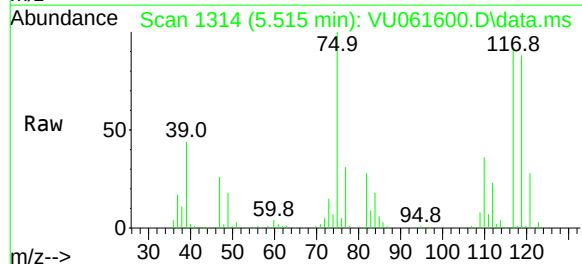
77 30.9 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 15.777 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

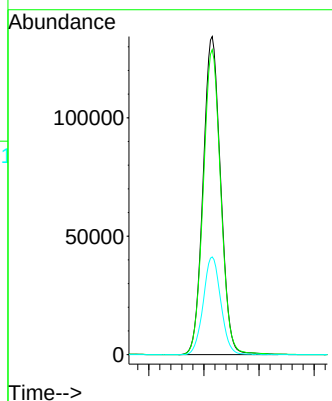
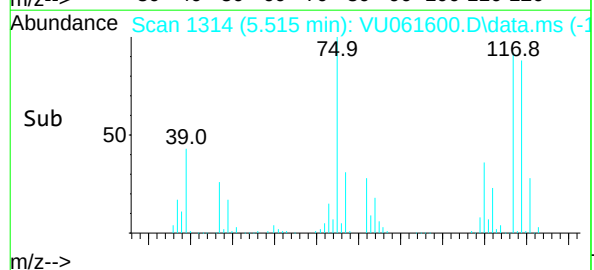
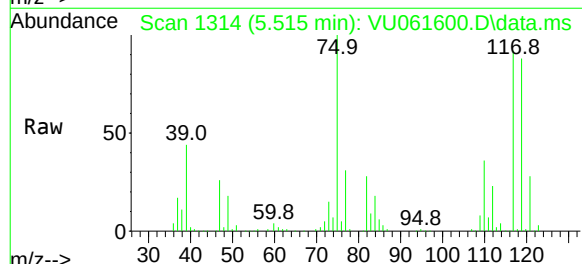
Tgt Ion:117 Resp: 296404

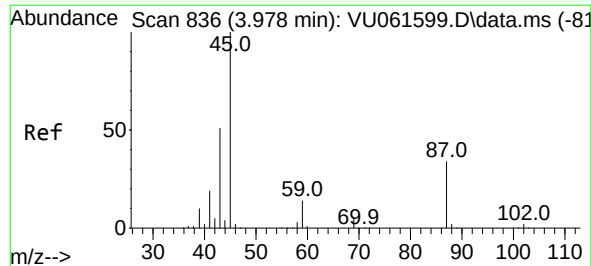
Ion Ratio Lower Upper

117 100

119 95.9 77.4 116.0

121 30.7 24.5 36.7





#31

Isopropyl Ether

Concen: 15.963 ug/l

RT: 3.978 min Scan# 836

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion: 45 Resp: 531290

Ion Ratio Lower Upper

45 100

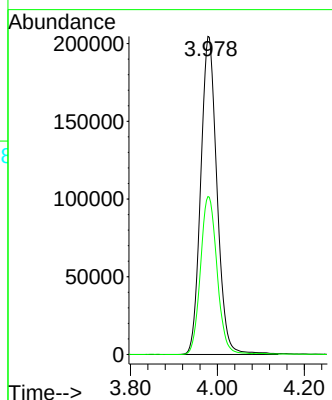
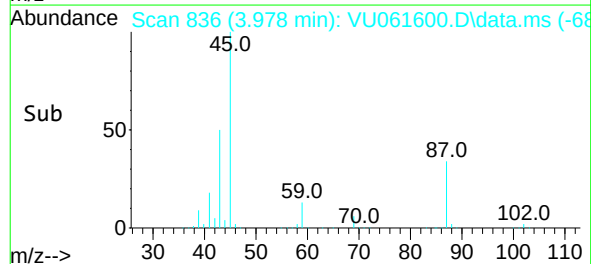
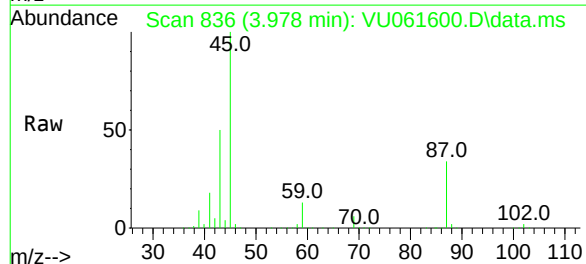
43 50.6 25.8 77.3

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

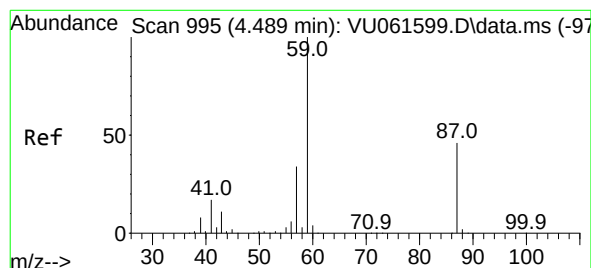


Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#32

Ethyl-t-butyl ether

Concen: 16.149 ug/l

RT: 4.489 min Scan# 995

Delta R.T. -0.000 min

Lab File: VU061600.D

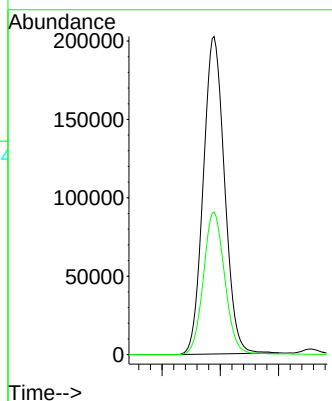
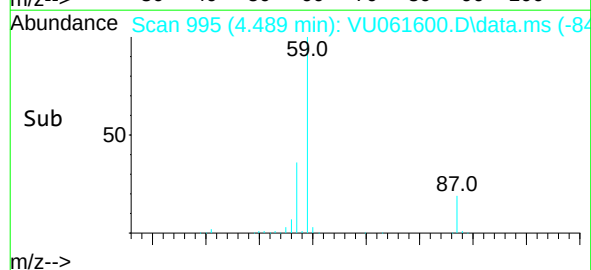
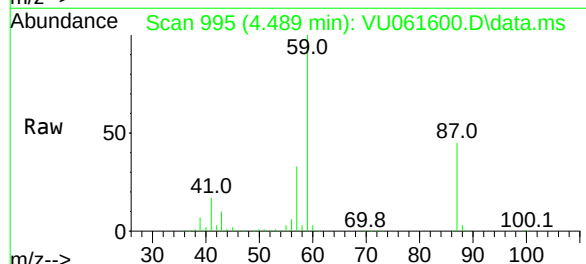
Acq: 12 Nov 2024 11:10

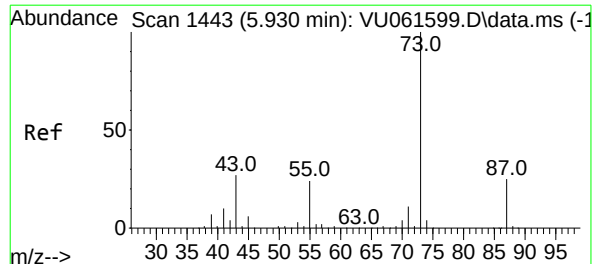
Tgt Ion: 59 Resp: 513805

Ion Ratio Lower Upper

59 100

87 44.7 35.5 53.3





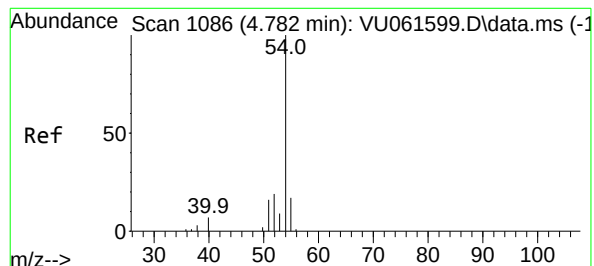
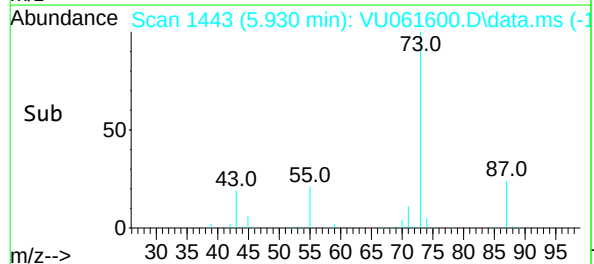
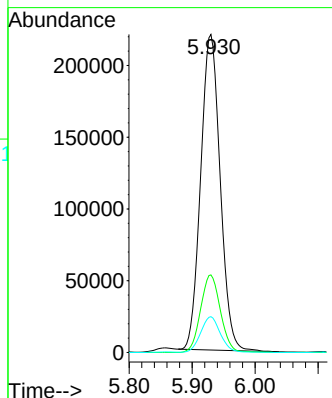
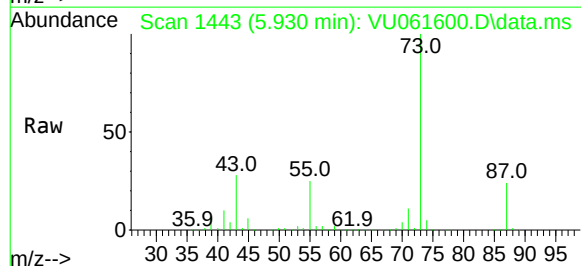
Tert-Amyl methyl ether
Concen: 16.437 ug/l
RT: 5.930 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Instrument : MSVOA_U
ClientSampleId : VSTDIC015

Tgt Ion: 73 Resp: 472688
Ion Ratio Lower Upper
73 100
87 25.1 19.8 29.6
71 11.2 9.0 13.4

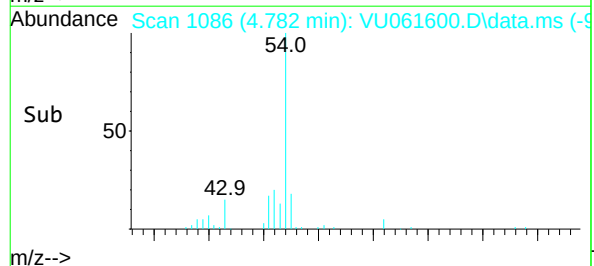
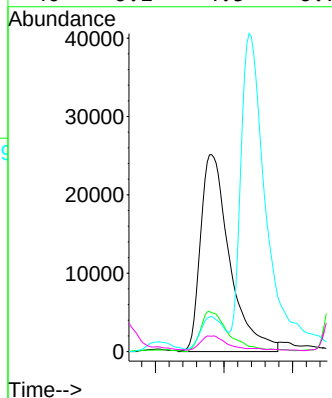
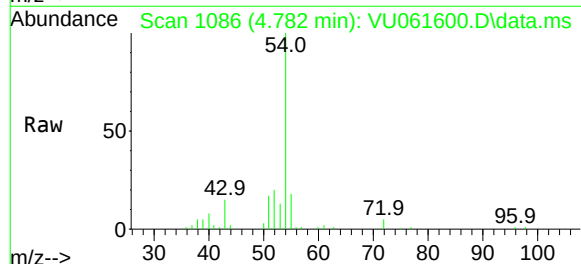
Manual Integrations
APPROVED

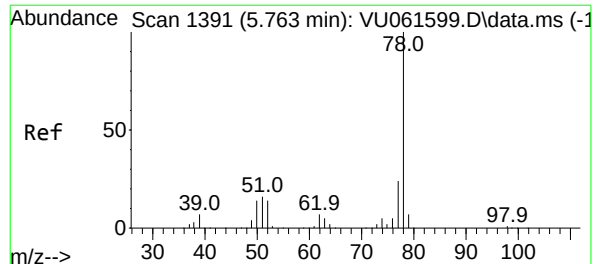
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



Propionitrile
Concen: 82.165 ug/l
RT: 4.782 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Tgt Ion: 54 Resp: 74216
Ion Ratio Lower Upper
54 100
52 19.7 15.8 23.8
55 13.7 10.7 16.1
40 6.1 4.5 6.7





#35

Benzene

Concen: 15.380 ug/l

RT: 5.763 min Scan# 1391

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 78 Resp: 902712

Ion Ratio Lower Upper

78 100

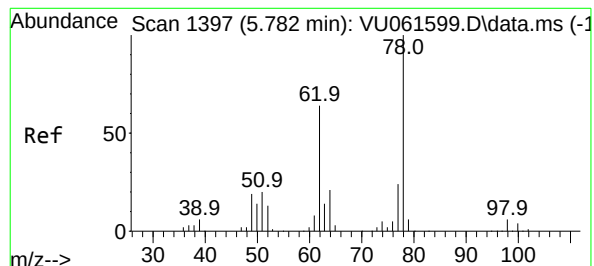
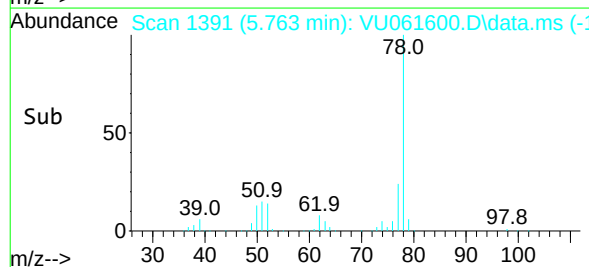
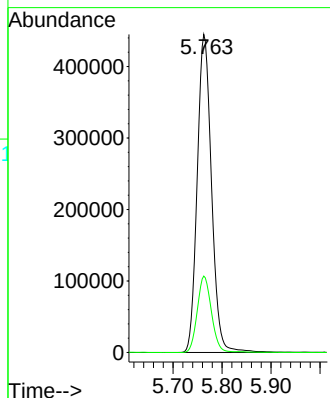
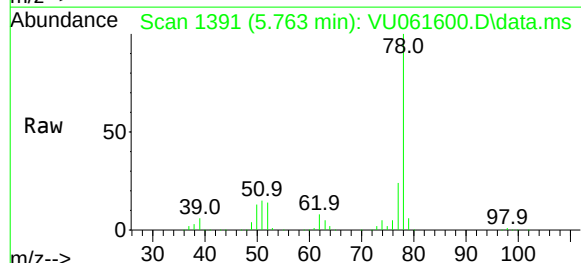
77 24.0 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#36

1,2-Dichloroethane

Concen: 15.072 ug/l

RT: 5.782 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VU061600.D

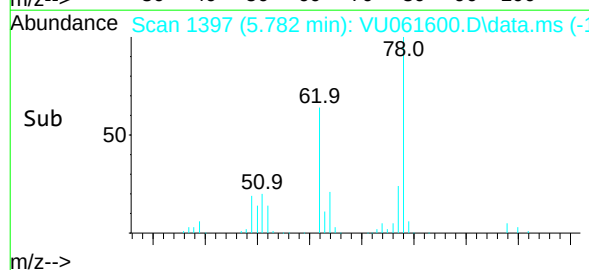
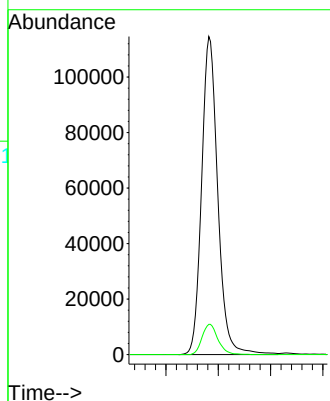
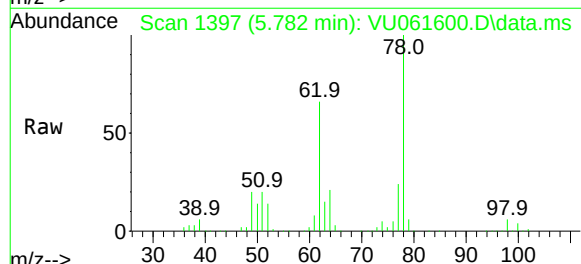
Acq: 12 Nov 2024 11:10

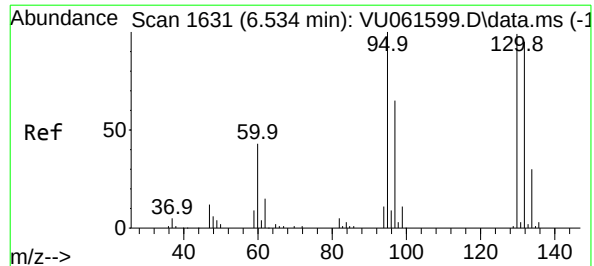
Tgt Ion: 62 Resp: 245826

Ion Ratio Lower Upper

62 100

98 9.4 7.4 11.0





#37

Trichloroethene

Concen: 15.247 ug/l

RT: 6.534 min Scan# 1631

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion:130 Resp: 236949

Ion Ratio Lower Upper

130 100

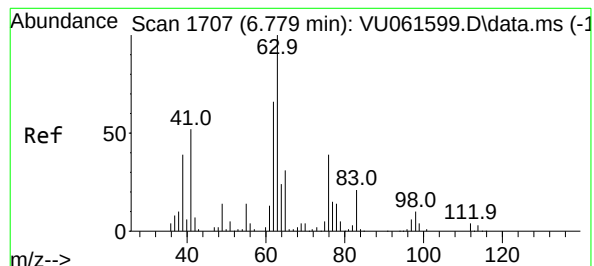
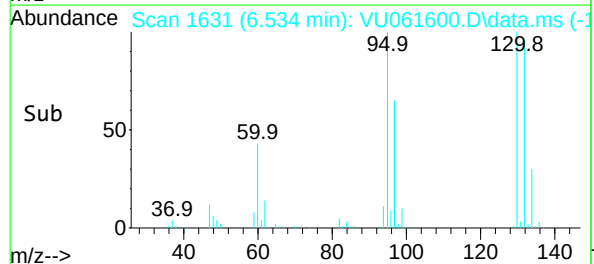
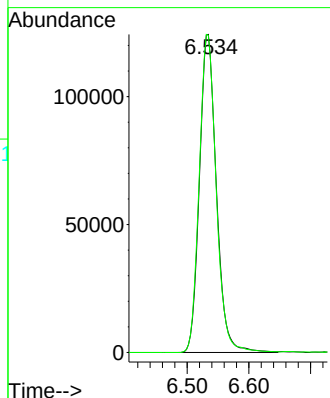
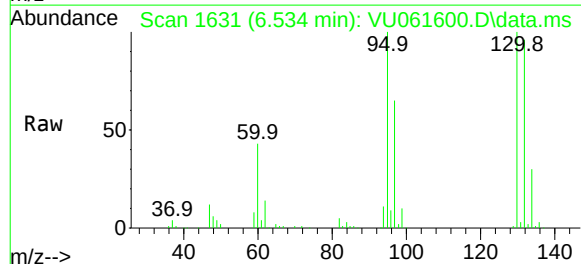
95 99.7 80.6 120.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#38

1,2-Dichloropropane

Concen: 15.498 ug/l

RT: 6.779 min Scan# 1707

Delta R.T. -0.000 min

Lab File: VU061600.D

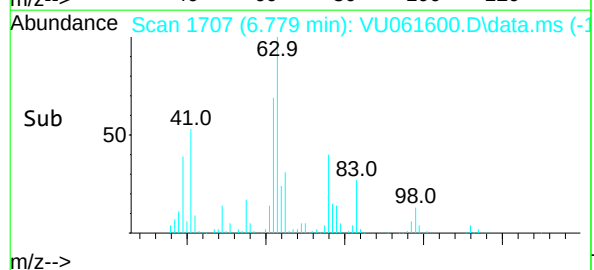
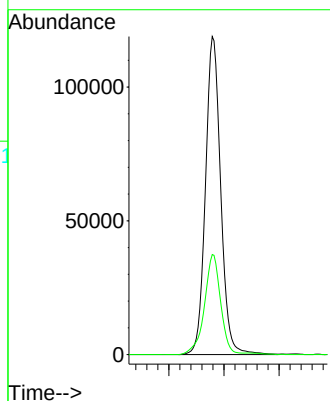
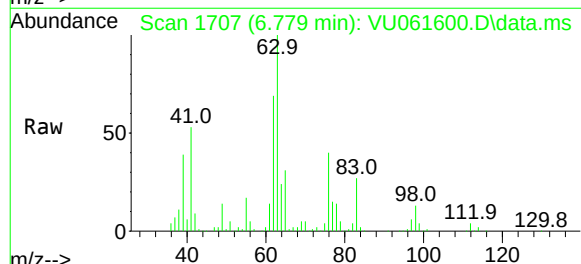
Acq: 12 Nov 2024 11:10

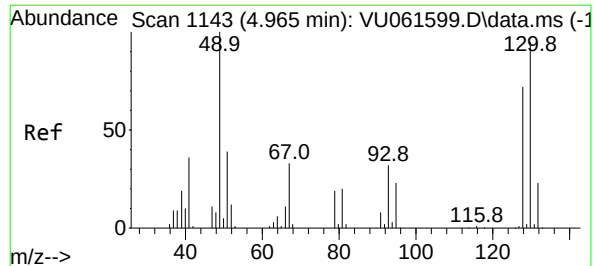
Tgt Ion: 63 Resp: 228397

Ion Ratio Lower Upper

63 100

65 31.4 25.3 37.9





#39

Methacrylonitrile

Concen: 16.677 ug/l

RT: 4.962 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 41 Resp: 53918

Ion Ratio Lower Upper

41 100

67 93.3 77.6 116.4

39 57.4 43.9 65.9

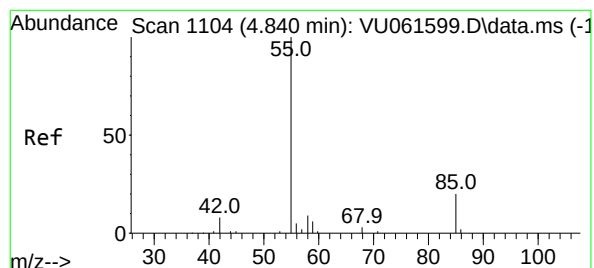
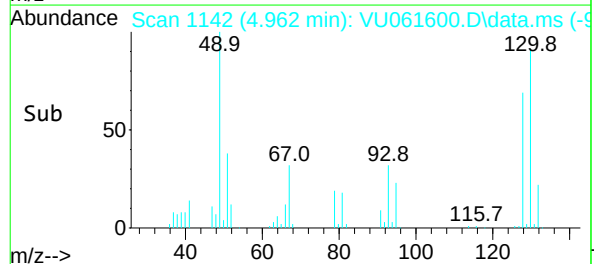
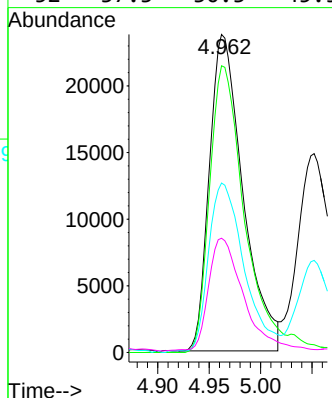
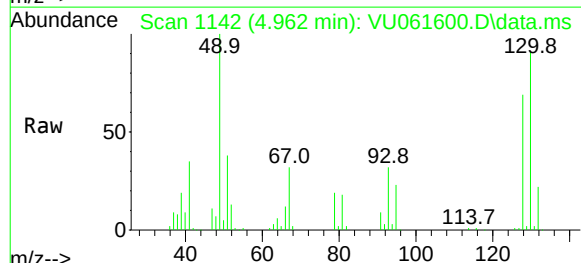
52 37.3 30.3 45.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#40

Methyl acrylate

Concen: 17.791 ug/l

RT: 4.837 min Scan# 1103

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion: 55 Resp: 104109

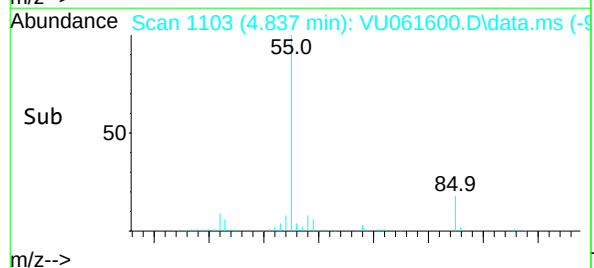
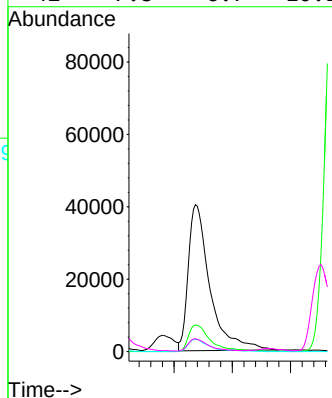
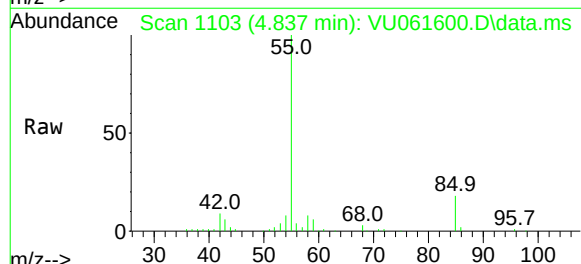
Ion Ratio Lower Upper

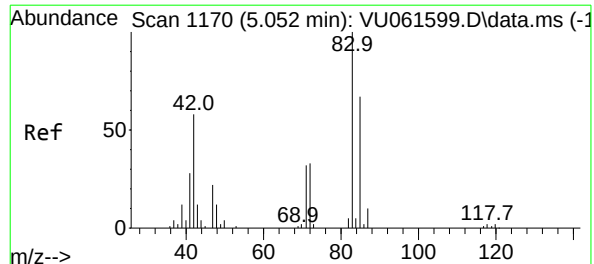
55 100

85 18.6 16.5 24.7

58 7.8 7.6 11.4

42 7.8 6.7 10.1





#41

Tetrahydrofuran

Concen: 30.697 ug/l

RT: 5.052 min Scan# 1170

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

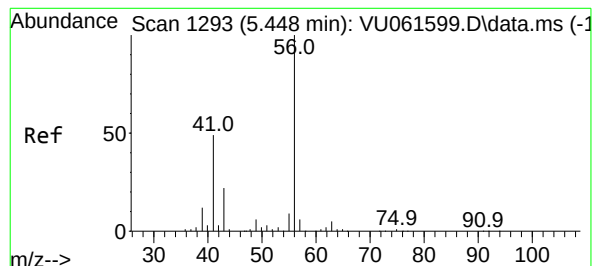
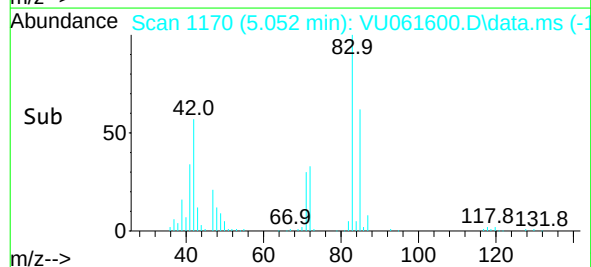
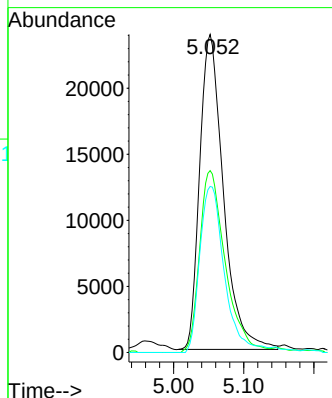
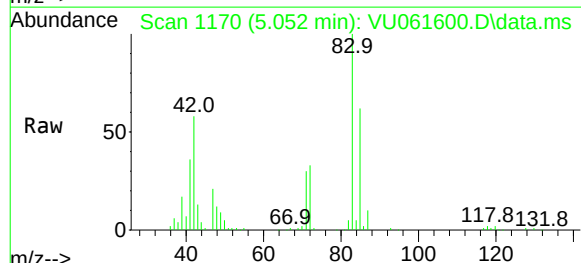
ClientSampleId :

VSTDICC015

Tgt Ion:	42	Resp:	56051
Ion	Ratio	Lower	Upper
42	100		
72	62.5	49.1	73.7
71	54.6	40.2	60.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#42

1-Chlorobutane

Concen: 15.687 ug/l

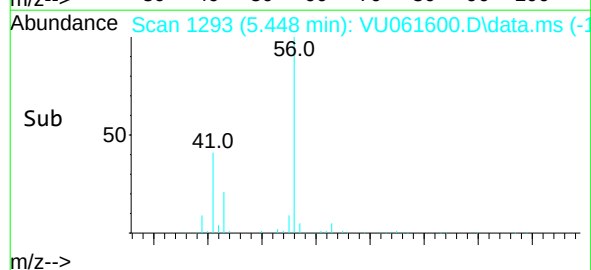
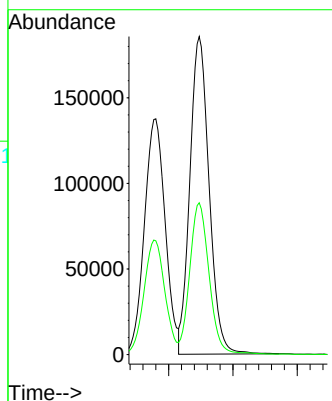
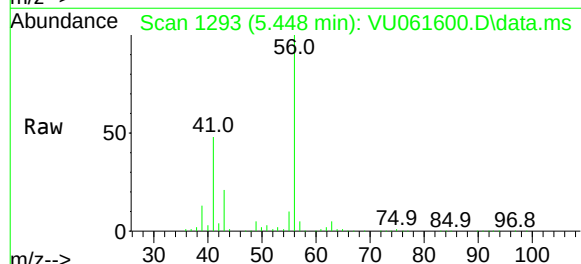
RT: 5.448 min Scan# 1293

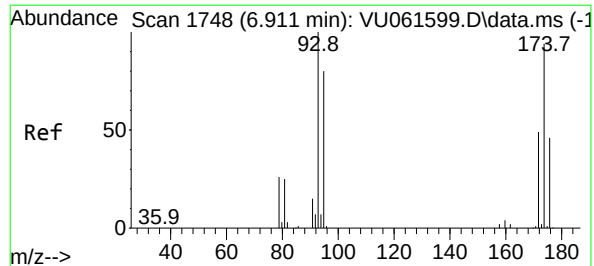
Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	56	Resp:	385497
Ion	Ratio	Lower	Upper
56	100		
41	47.7	23.4	70.2





#43

Dibromomethane

Concen: 15.419 ug/l

RT: 6.907 min Scan# 1748

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Tgt Ion: 93 Resp: 120336

Ion Ratio Lower Upper

93 100

95 83.6 65.2 97.8

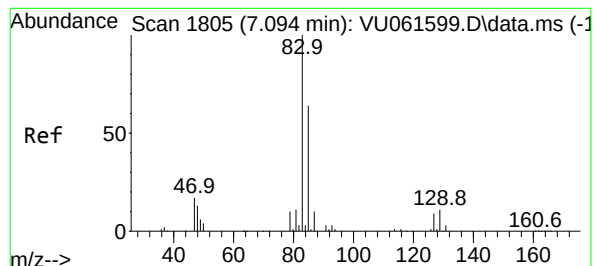
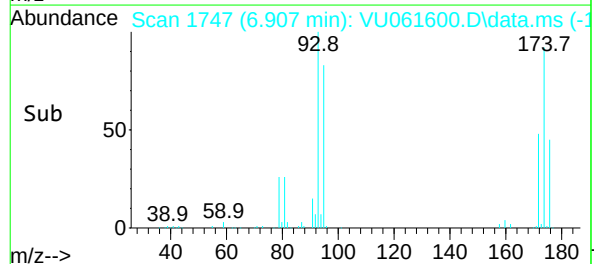
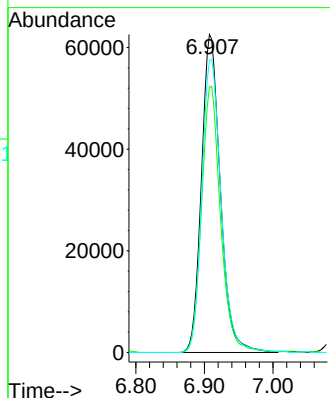
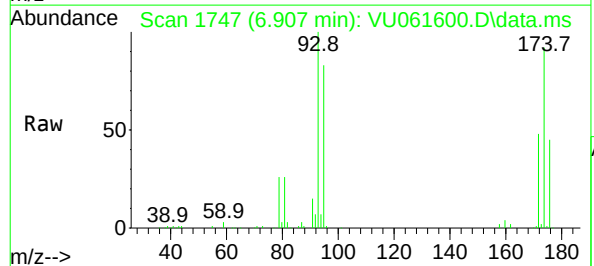
174 94.0 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

Concen: 16.072 ug/l

RT: 7.094 min Scan# 1805

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

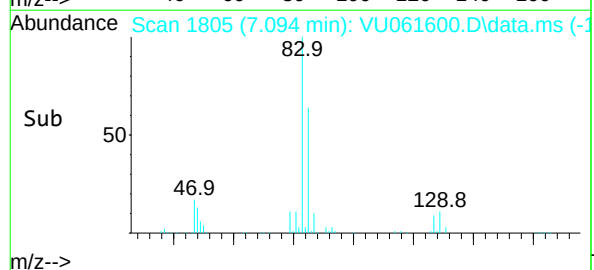
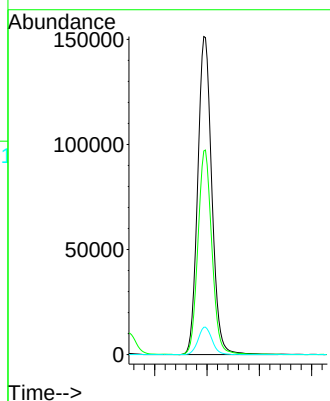
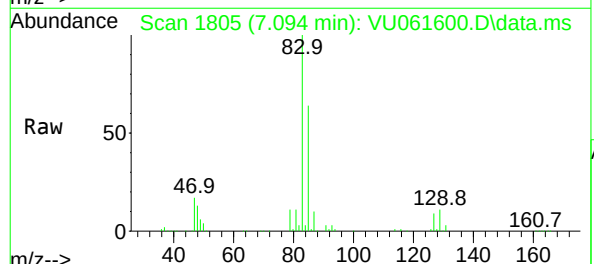
Tgt Ion: 83 Resp: 283267

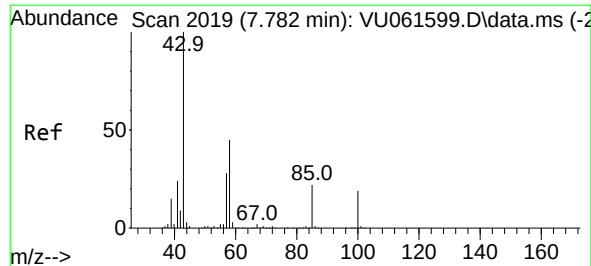
Ion Ratio Lower Upper

83 100

85 64.0 51.4 77.0

127 8.6 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 78.941 ug/l

RT: 7.782 min Scan# 2019

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

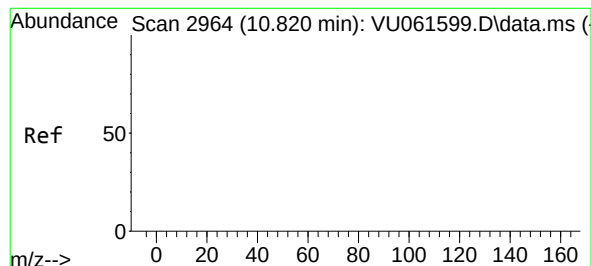
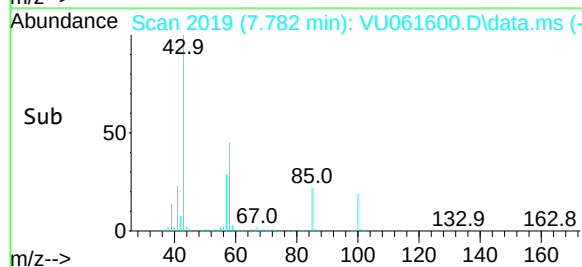
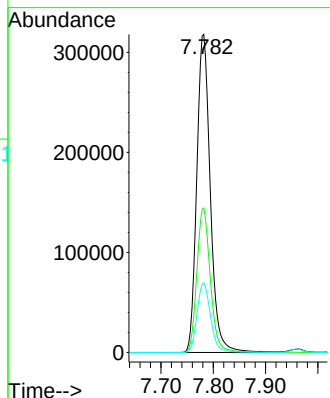
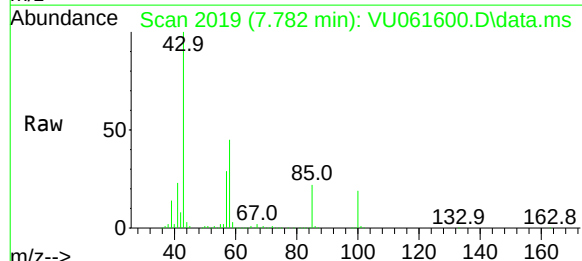
ClientSampleId :

VSTDIC015

Tgt Ion:	43	Resp:	573100
Ion	Ratio	Lower	Upper
43	100		
58	45.2	22.3	66.8
85	21.9	17.2	25.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 27.348 ug/l m

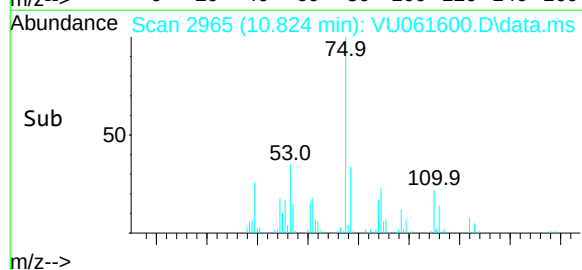
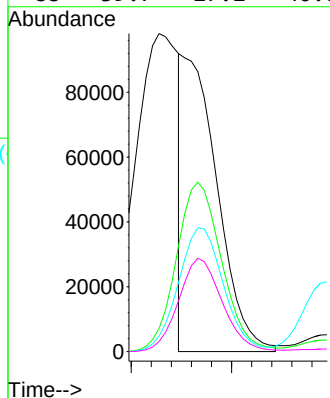
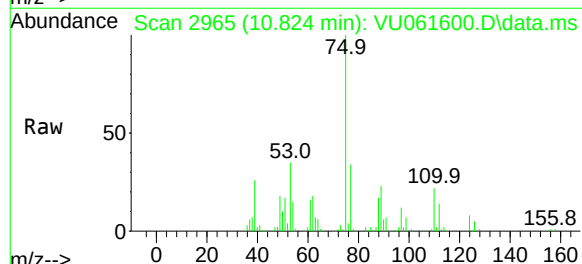
RT: 10.824 min Scan# 2965

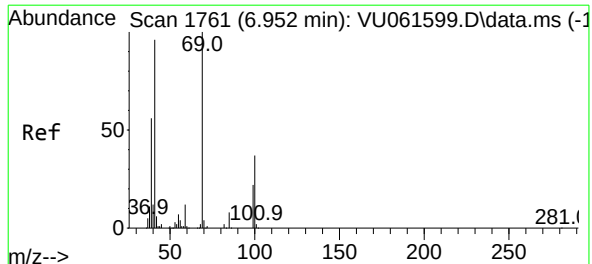
Delta R.T. 0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	75	Resp:	109775
Ion	Ratio	Lower	Upper
75	100		
53	74.7	50.7	76.1
89	54.6	35.2	52.8
88	39.7	27.2	40.8





#47

Methyl methacrylate

Concen: 34.181 ug/l

RT: 6.952 min Scan# 1761

Delta R.T. -0.000 min

Lab File: VU061600.D

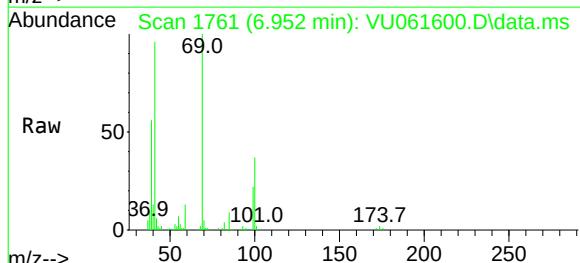
Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015



Tgt Ion: 69 Resp: 211728

Ion Ratio Lower Upper

69 100

41 95.3 0.0 193.6

39 56.4 46.6 70.0

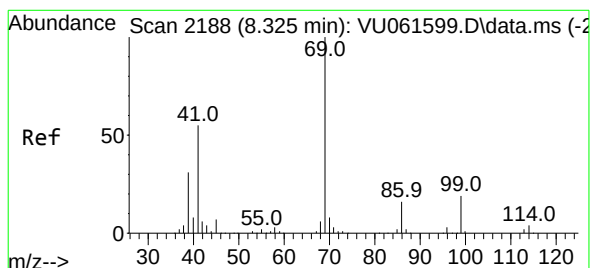
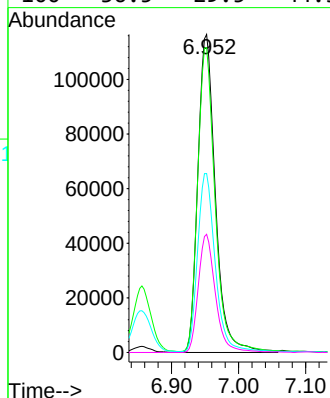
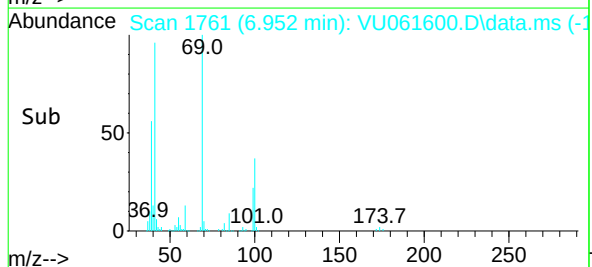
100 36.5 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#48

Ethyl methacrylate

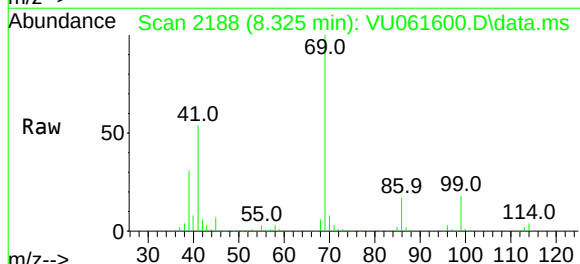
Concen: 17.441 ug/l

RT: 8.325 min Scan# 2188

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

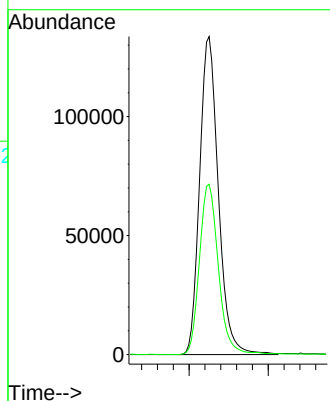
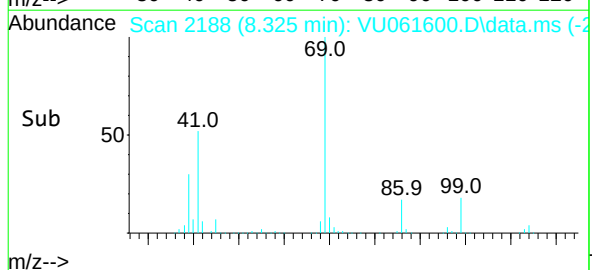


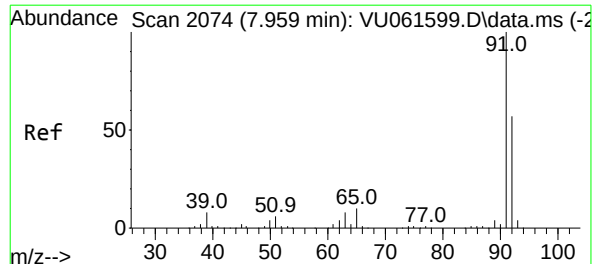
Tgt Ion: 69 Resp: 219615

Ion Ratio Lower Upper

69 100

41 54.3 27.3 81.9





#49

Toluene

Concen: 15.886 ug/l

RT: 7.959 min Scan# 2074

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion: 92 Resp: 569394

Ion Ratio Lower Upper

92 100

91 175.5 139.6 209.4

Instrument :

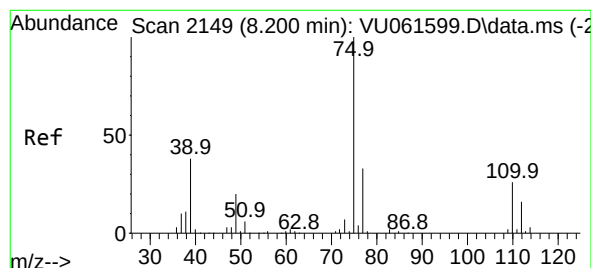
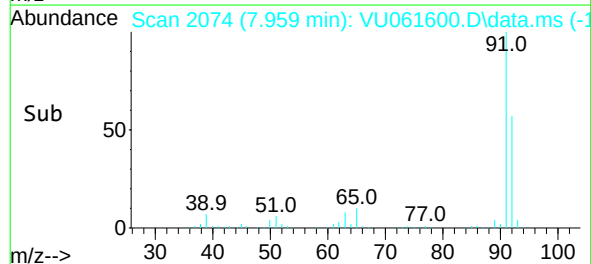
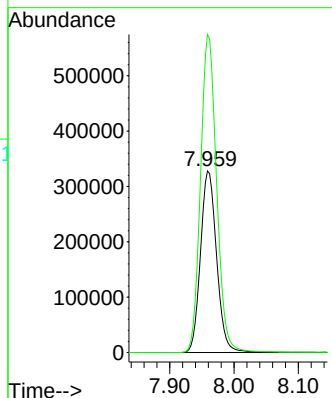
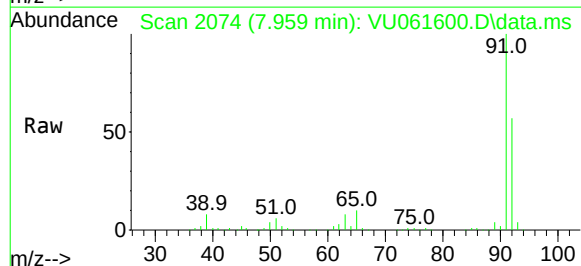
MSVOA_U

ClientSampleId :

VSTDICC015

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#50

t-1,3-Dichloropropene

Concen: 17.191 ug/l

RT: 8.200 min Scan# 2149

Delta R.T. -0.000 min

Lab File: VU061600.D

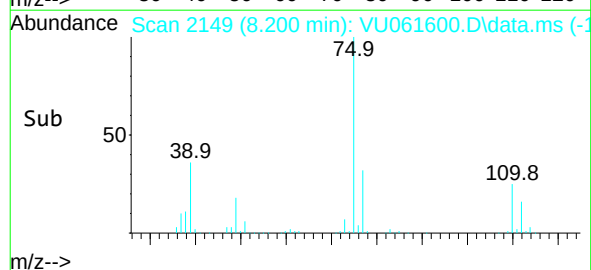
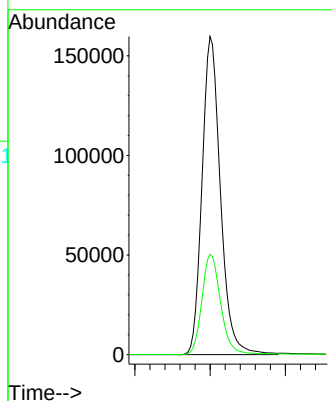
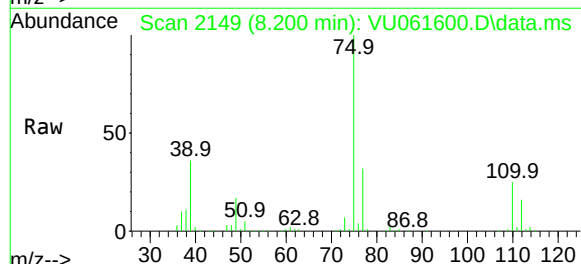
Acq: 12 Nov 2024 11:10

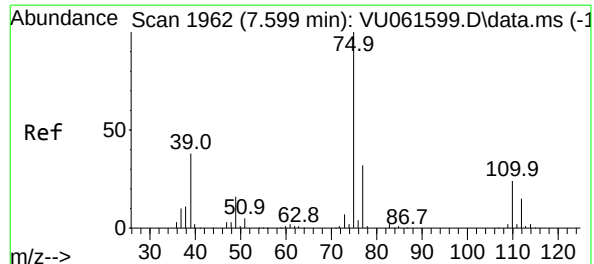
Tgt Ion: 75 Resp: 271100

Ion Ratio Lower Upper

75 100

77 31.5 26.0 39.0





#51

cis-1,3-Dichloropropene

Concen: 16.439 ug/l

RT: 7.599 min Scan# 1962

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

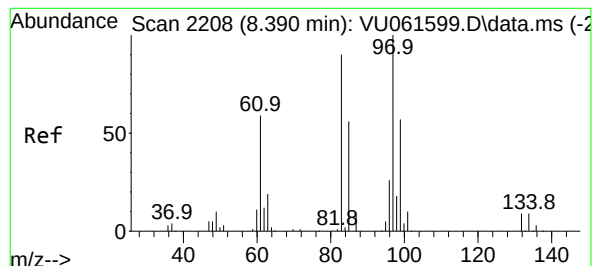
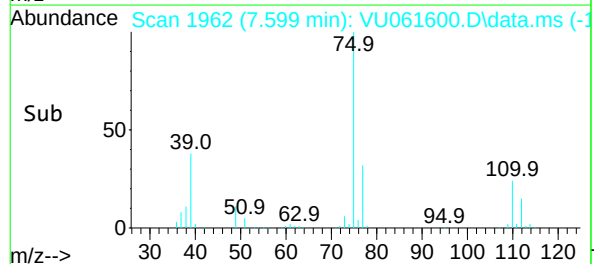
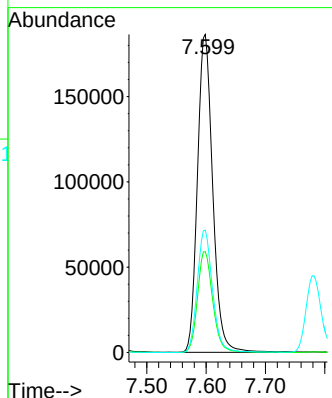
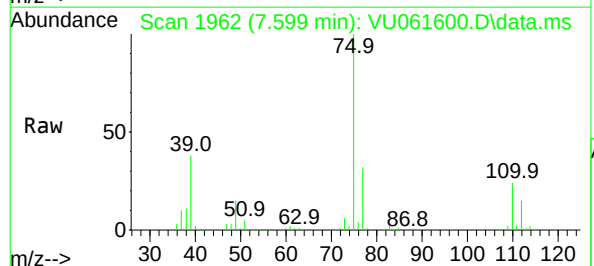
ClientSampleId :

VSTDIC015

Tgt Ion:	75	Resp:	332580
Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.5	38.3
39	38.5	30.6	46.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#52

1,1,2-Trichloroethane

Concen: 15.305 ug/l

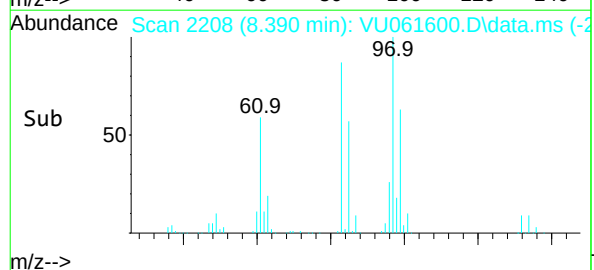
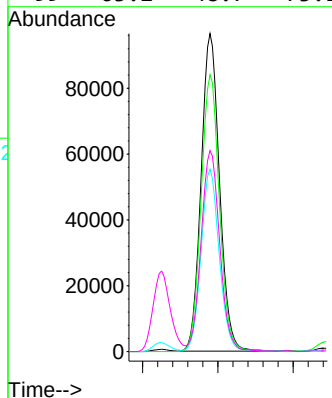
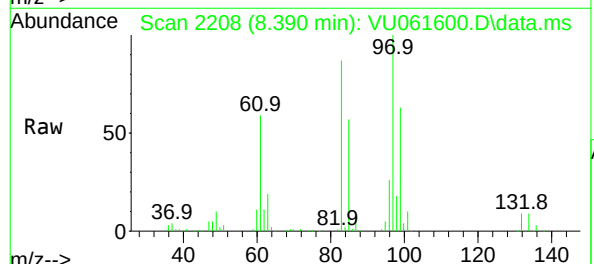
RT: 8.390 min Scan# 2208

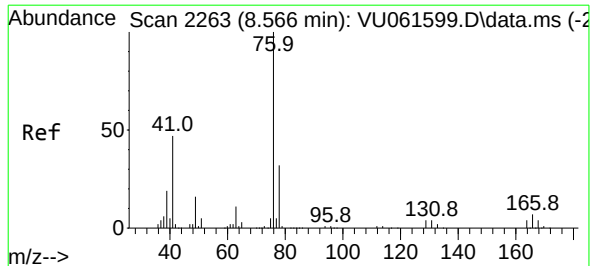
Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

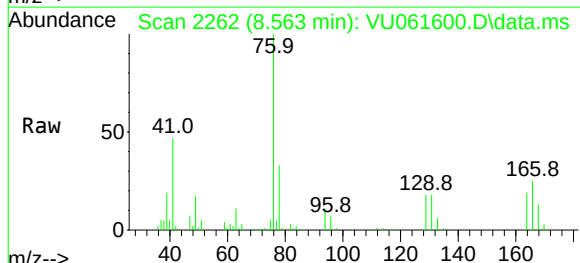
Tgt Ion:	97	Resp:	163736
Ion	Ratio	Lower	Upper
97	100		
83	87.2	71.7	107.5
85	57.2	45.2	67.8
99	63.2	48.7	73.1





#53
1,3-Dichloropropane
Concen: 15.465 ug/l
RT: 8.563 min Scan# 2263
Delta R.T. -0.003 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

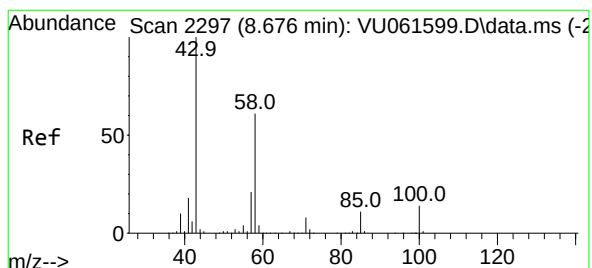
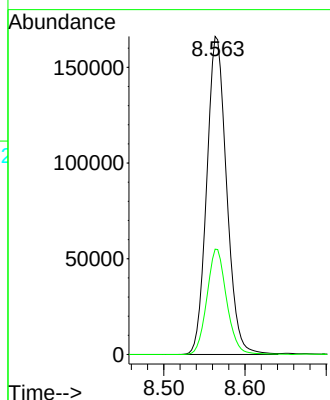
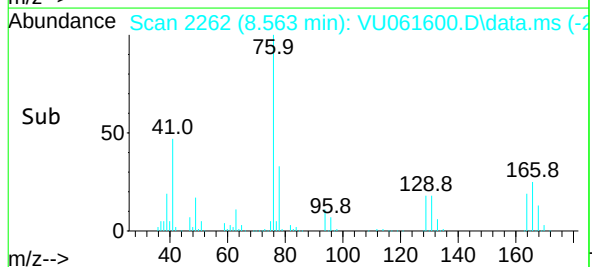
Instrument :
MSVOA_U
ClientSampleId :
VSTDICC015



Tgt Ion: 76 Resp: 282366
Ion Ratio Lower Upper
76 100
78 32.9 25.8 38.8

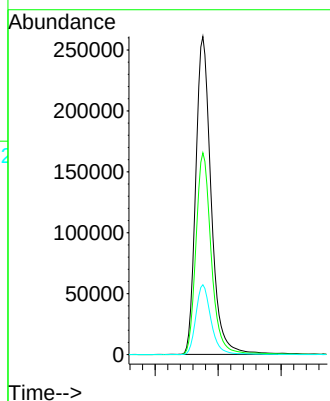
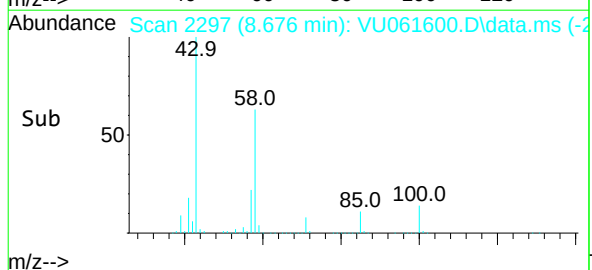
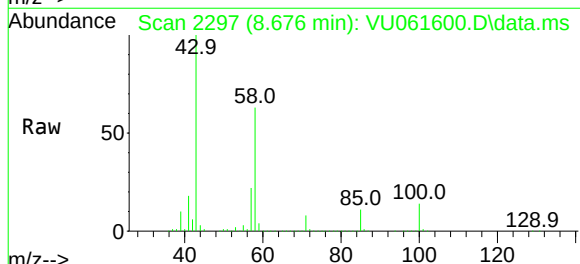
Manual Integrations
APPROVED

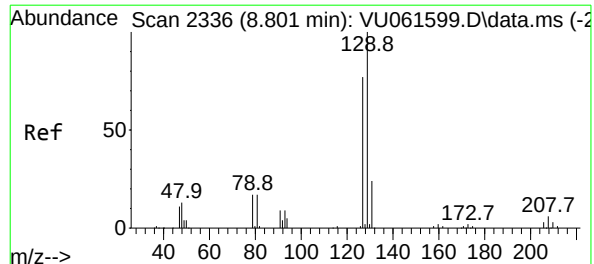
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#54
2-Hexanone
Concen: 71.629 ug/l
RT: 8.676 min Scan# 2297
Delta R.T. -0.000 min
Lab File: VU061600.D
Acq: 12 Nov 2024 11:10

Tgt Ion: 43 Resp: 443067
Ion Ratio Lower Upper
43 100
58 62.6 42.3 82.3
57 21.7 0.9 40.9





#55

Dibromochloromethane

Concen: 17.305 ug/l

RT: 8.798 min Scan# 2336

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Tgt Ion:129 Resp: 200414

Ion Ratio Lower Upper

129 100

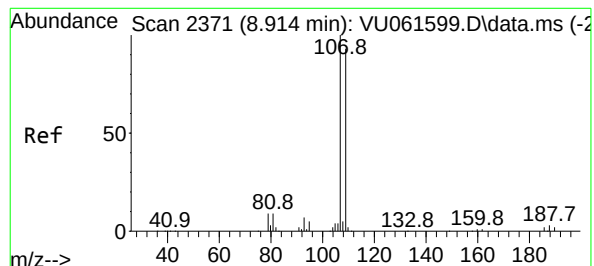
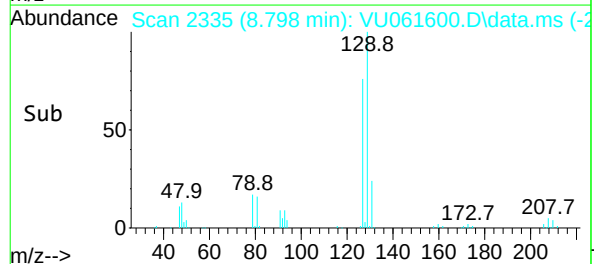
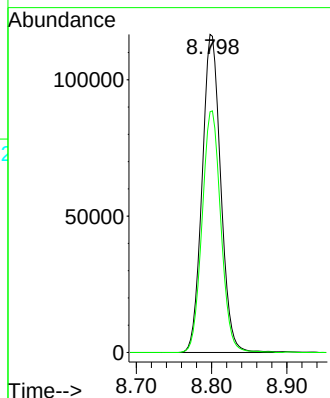
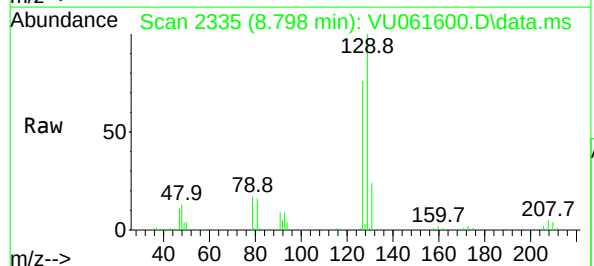
127 76.6 61.8 92.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#56

1,2-Dibromoethane

Concen: 15.813 ug/l

RT: 8.914 min Scan# 2371

Delta R.T. -0.000 min

Lab File: VU061600.D

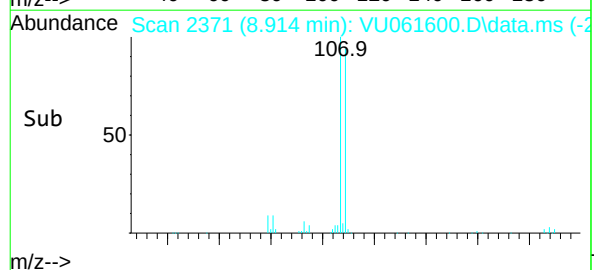
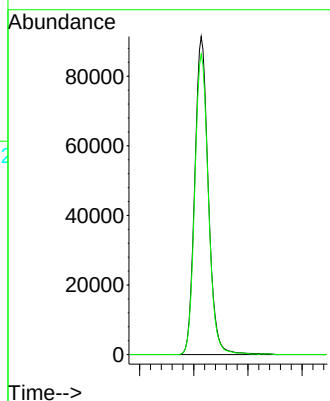
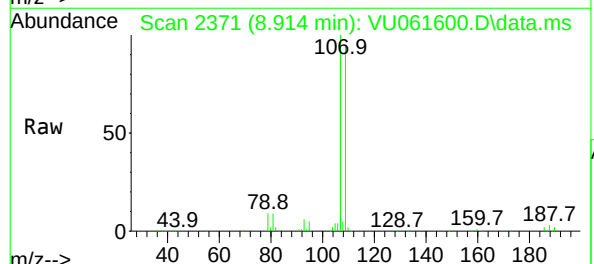
Acq: 12 Nov 2024 11:10

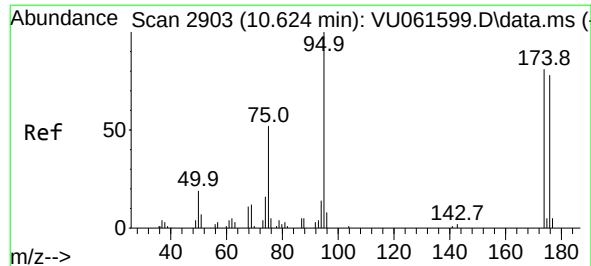
Tgt Ion:107 Resp: 158995

Ion Ratio Lower Upper

107 100

109 95.1 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 1.020 ug/l

RT: 10.624 min Scan# 2903

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

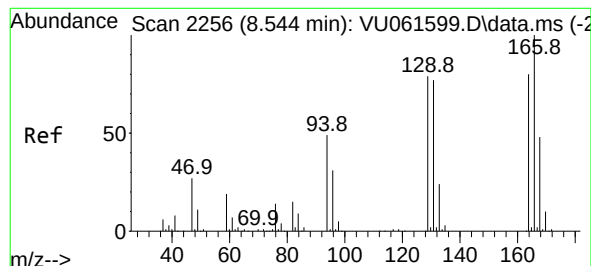
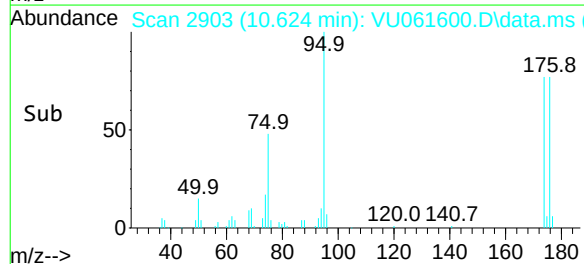
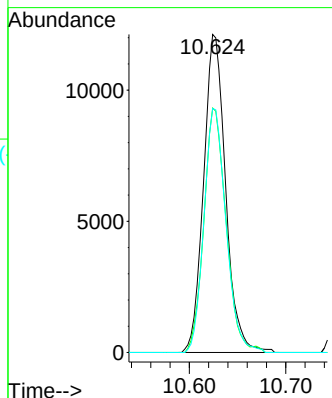
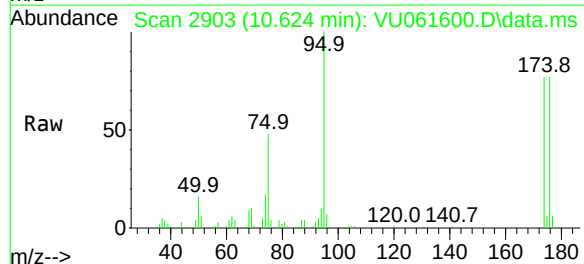
ClientSampleId :

VSTDICC015

Tgt Ion:	95	Resp:	19237
Ion	Ratio	Lower	Upper
95	100		
174	77.6	67.5	101.3
176	76.9	62.7	94.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#58

Tetrachloroethene

Concen: 14.913 ug/l

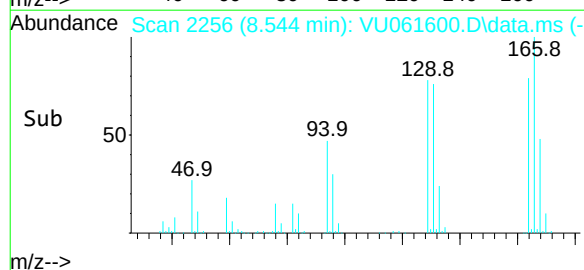
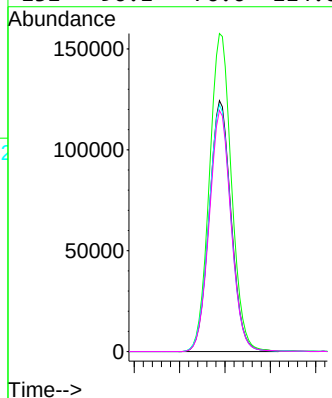
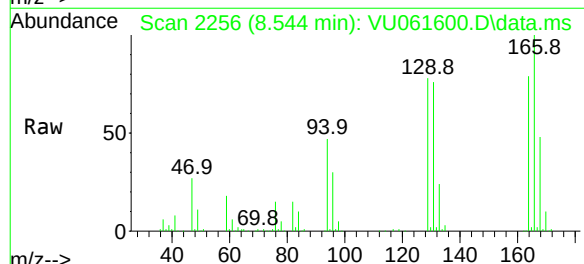
RT: 8.544 min Scan# 2256

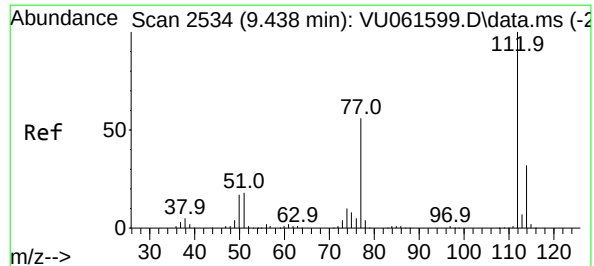
Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	164	Resp:	208495
Ion	Ratio	Lower	Upper
164	100		
166	126.7	99.9	149.9
129	98.4	78.6	118.0
131	96.1	76.6	114.8





#59

Chlorobenzene

Concen: 15.930 ug/l

RT: 9.438 min Scan# 2534

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion:112 Resp: 630777

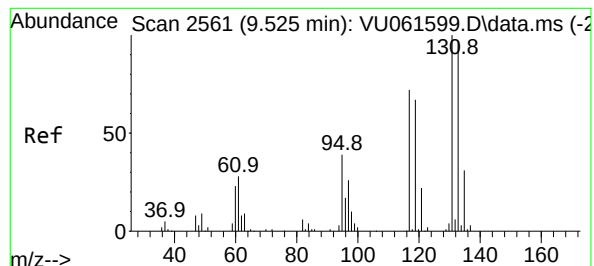
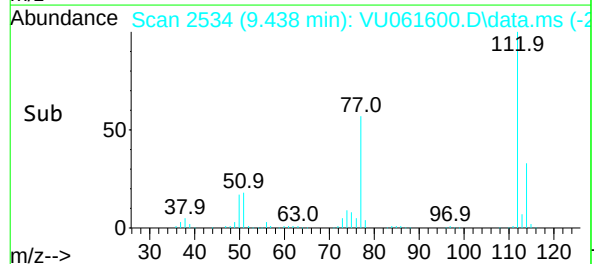
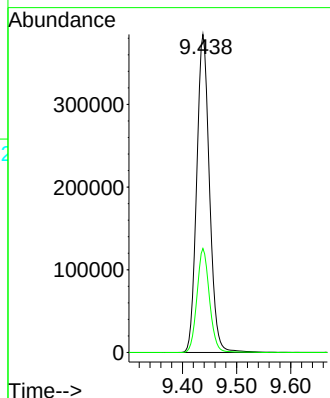
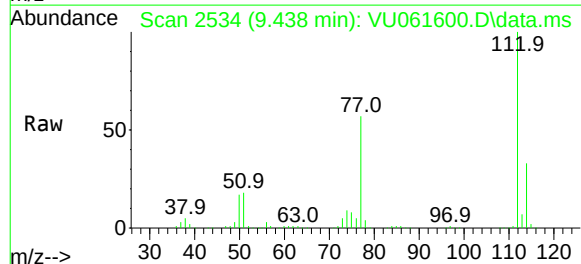
Ion Ratio Lower Upper

112 100

114 32.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#60

1,1,1,2-Tetrachloroethane

Concen: 16.451 ug/l

RT: 9.525 min Scan# 2561

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

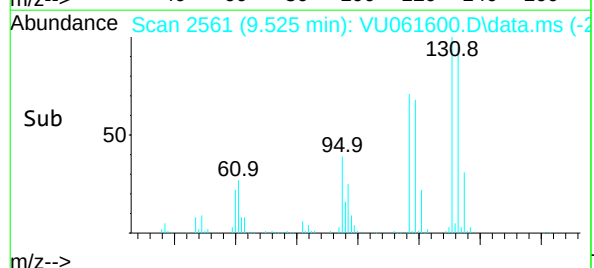
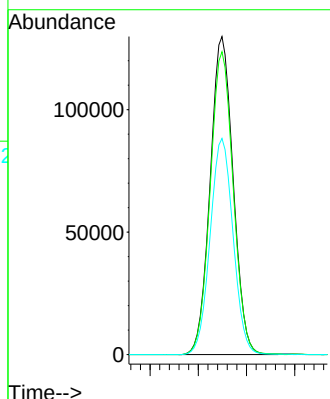
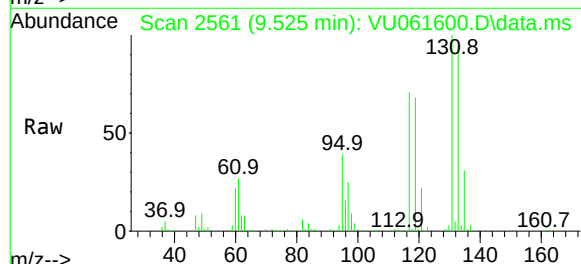
Tgt Ion:131 Resp: 214980

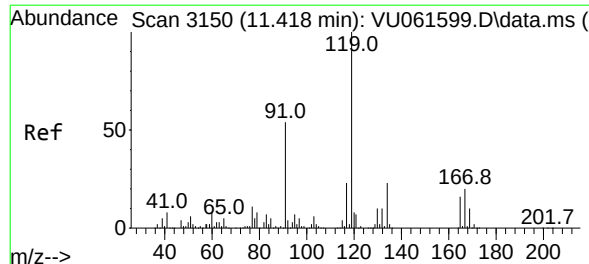
Ion Ratio Lower Upper

131 100

133 95.5 76.4 114.6

119 67.9 53.5 80.3





#61

Pentachloroethane

Concen: 16.877 ug/l

RT: 11.418 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion:117 Resp: 165939

Ion Ratio Lower Upper

117 100

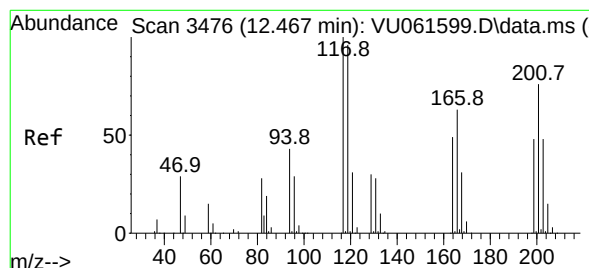
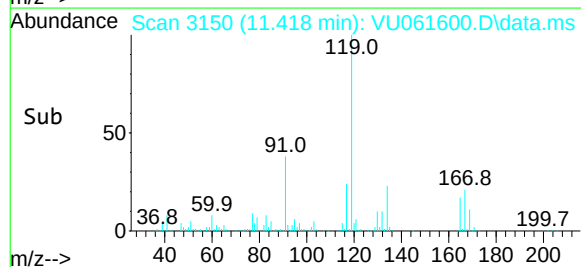
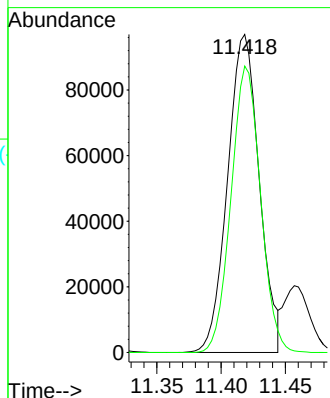
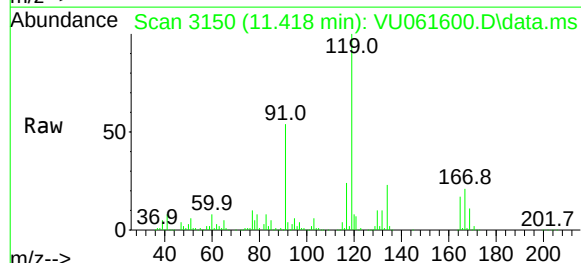
167 83.8 65.4 98.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 14.654 ug/l

RT: 12.467 min Scan# 3476

Delta R.T. -0.000 min

Lab File: VU061600.D

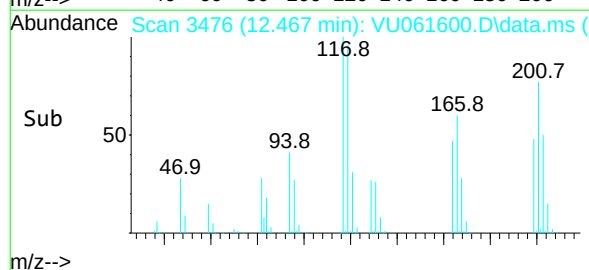
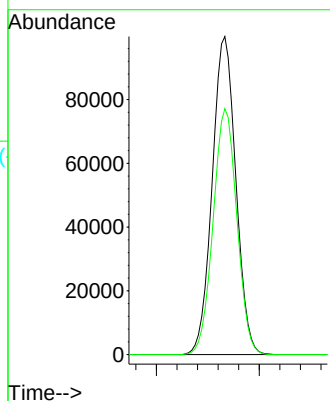
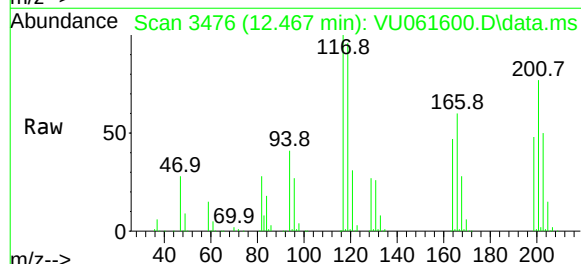
Acq: 12 Nov 2024 11:10

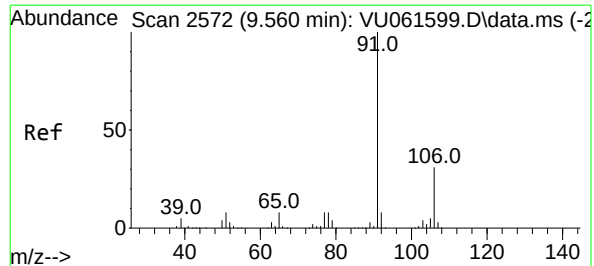
Tgt Ion:117 Resp: 159260

Ion Ratio Lower Upper

117 100

201 77.6 61.0 91.6





#63

Ethyl Benzene

Concen: 16.288 ug/l

RT: 9.560 min Scan# 2572

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Tgt Ion: 91 Resp: 1085838

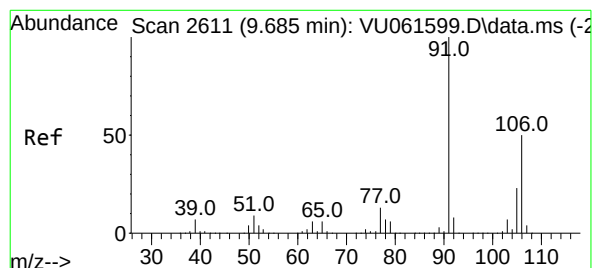
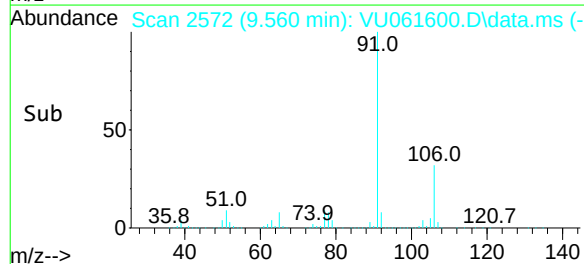
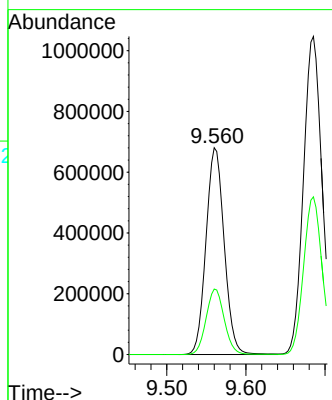
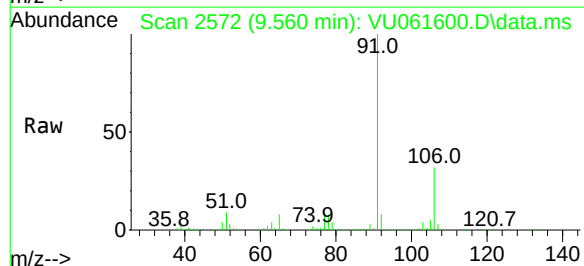
Ion Ratio Lower Upper

91 100

106 31.6 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#64

m/p-Xylenes

Concen: 33.156 ug/l

RT: 9.685 min Scan# 2611

Delta R.T. -0.000 min

Lab File: VU061600.D

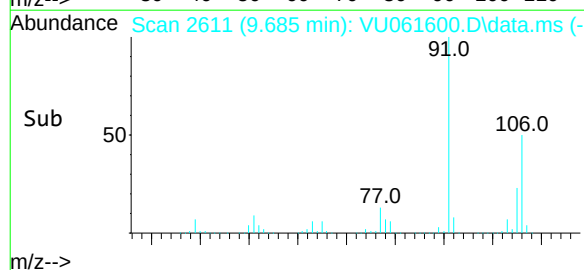
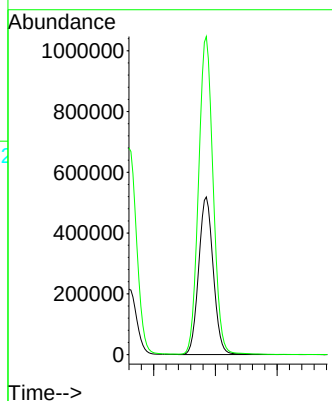
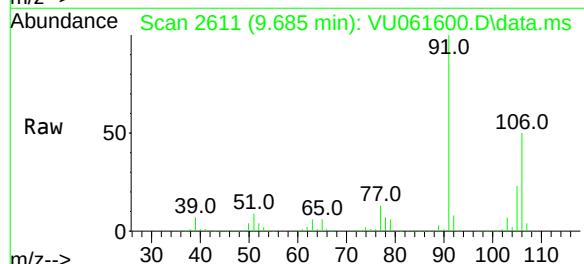
Acq: 12 Nov 2024 11:10

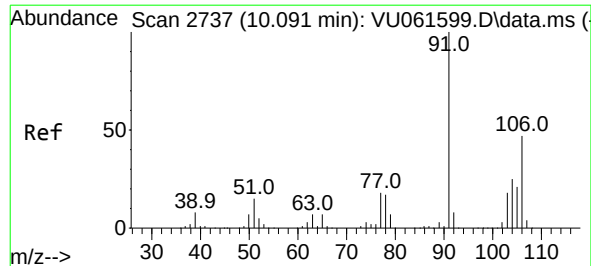
Tgt Ion:106 Resp: 851199

Ion Ratio Lower Upper

106 100

91 201.8 161.3 241.9





#65

o-Xylene

Concen: 16.502 ug/l

RT: 10.090 min Scan# 2737

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Tgt Ion:106 Resp: 413105

Ion Ratio Lower Upper

106 100

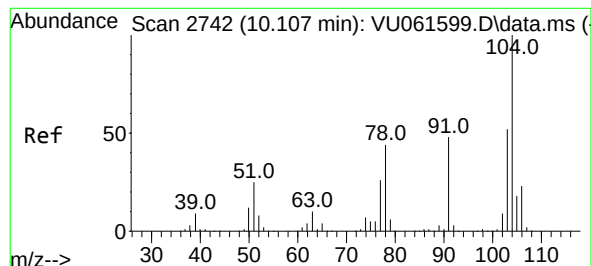
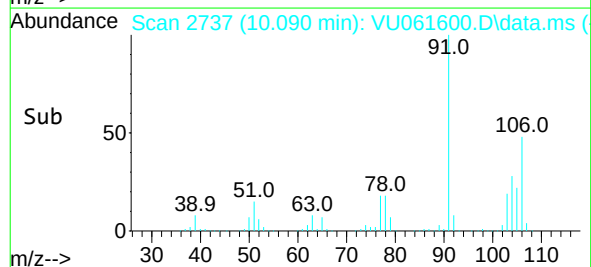
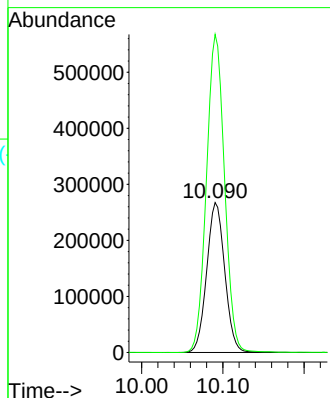
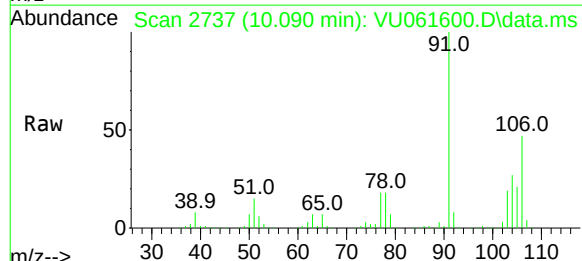
91 212.5 106.7 320.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#66

Styrene

Concen: 14.574 ug/l

RT: 10.103 min Scan# 2741

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

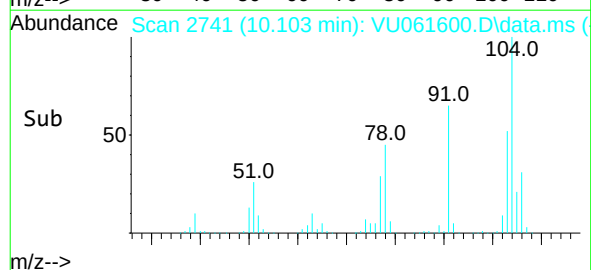
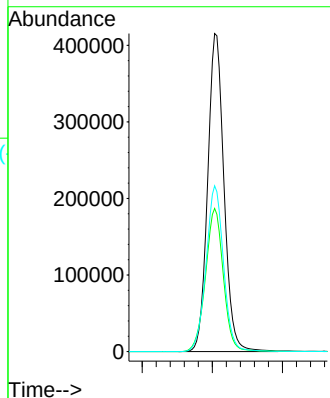
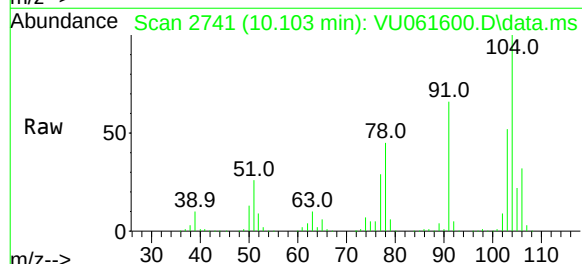
Tgt Ion:104 Resp: 671785

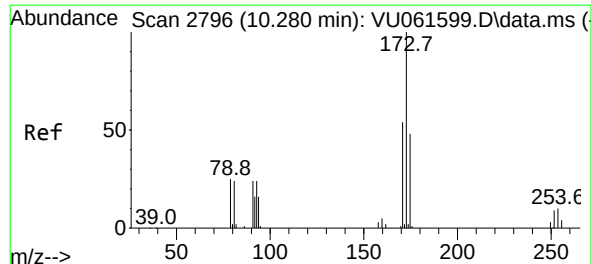
Ion Ratio Lower Upper

104 100

78 49.1 39.2 58.8

103 55.8 44.9 67.3





#67

Bromoform

Concen: 18.122 ug/l

RT: 10.280 min Scan# 2796

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

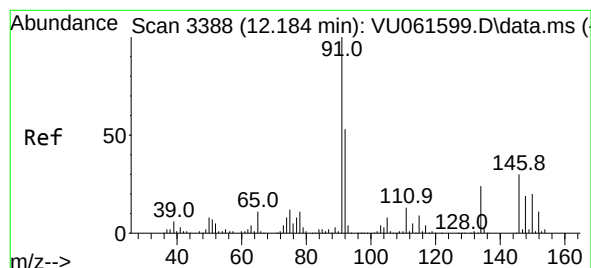
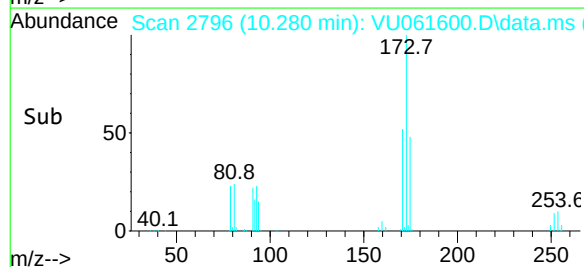
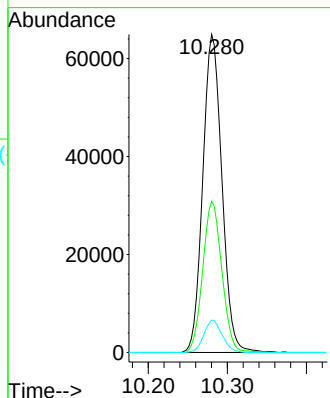
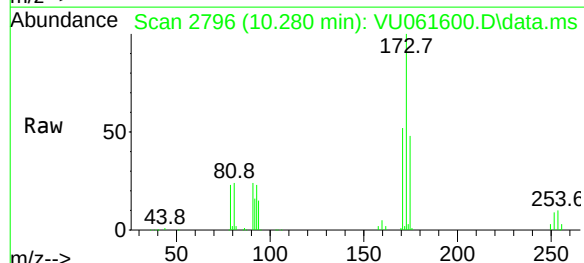
ClientSampleId :

VSTDICC015

Tgt Ion:	173	Resp:	108874
Ion Ratio	Lower	Upper	
173	100		
175	47.5	38.4	57.6
254	9.8	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 1.022 ug/l

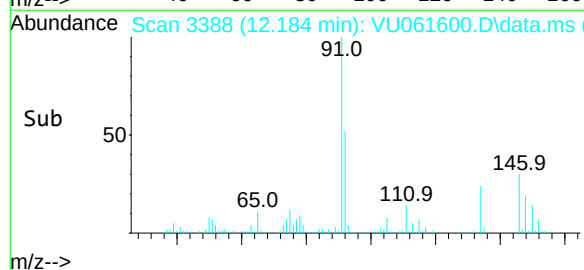
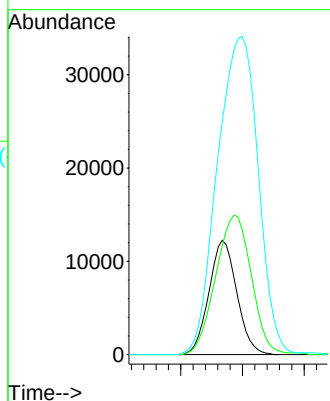
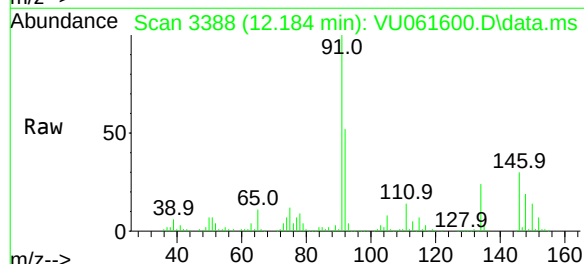
RT: 12.184 min Scan# 3388

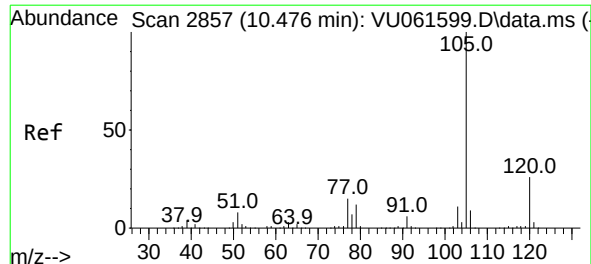
Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	152	Resp:	19212
Ion Ratio	Lower	Upper	
152	100		
115	156.7	0.0	259.0
150	408.2	0.0	650.2





#69

Isopropylbenzene

Concen: 16.551 ug/l

RT: 10.473 min Scan# 2857

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion: 105 Resp: 969099

Ion Ratio Lower Upper

105 100

120 26.6 13.2 39.6

Instrument :

MSVOA_U

ClientSampleId :

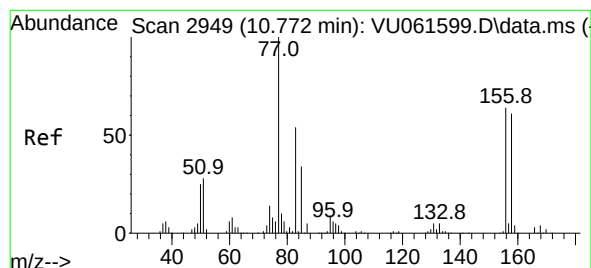
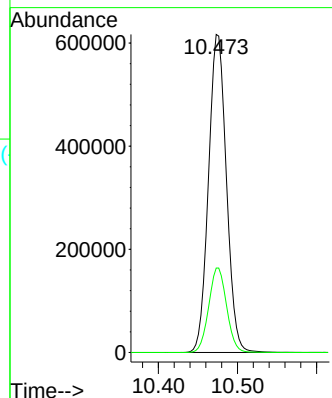
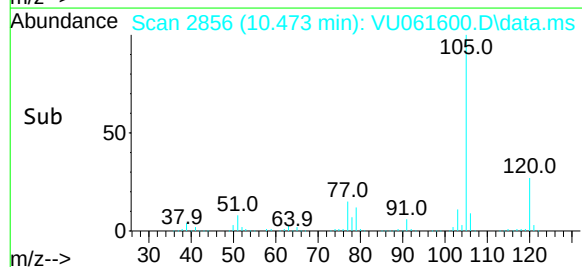
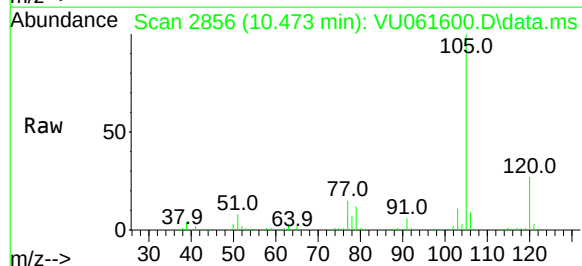
VSTDIC015

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 15.752 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

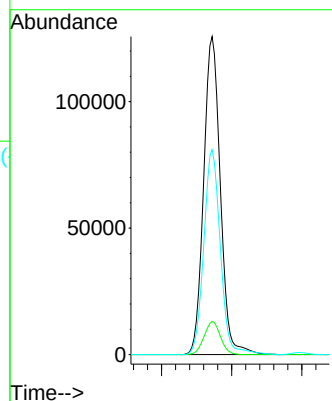
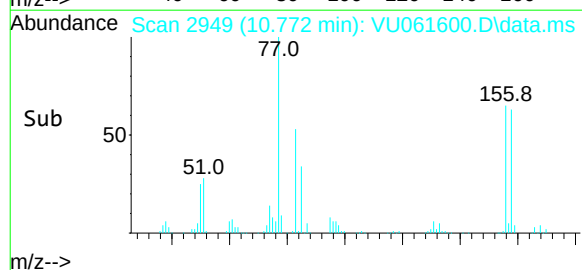
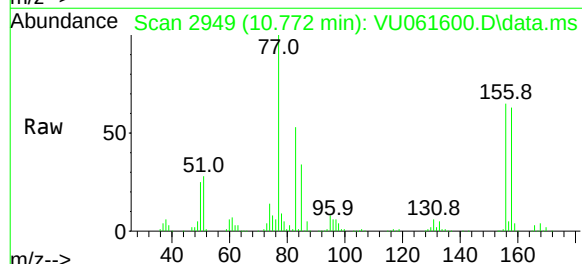
Tgt Ion: 83 Resp: 207515

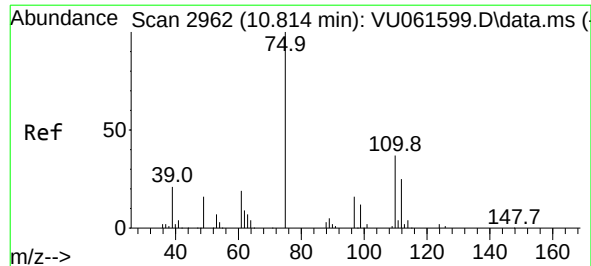
Ion Ratio Lower Upper

83 100

131 10.2 7.9 11.9

85 64.1 51.4 77.2





#71

1,2,3-Trichloropropane

Concen: 15.565 ug/l m

RT: 10.814 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 75 Resp: 167095

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 33.1 0.0 61.6

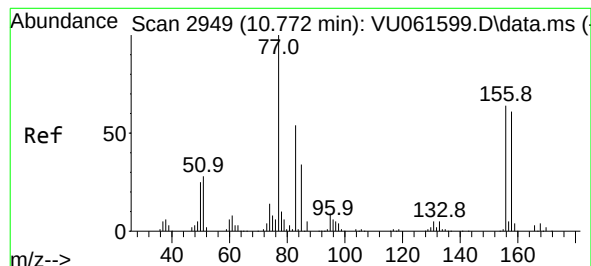
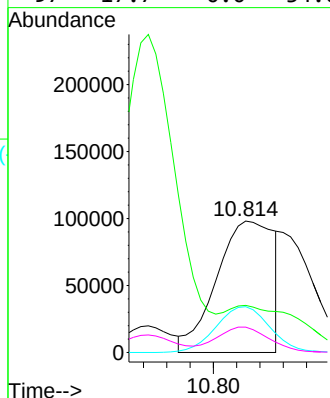
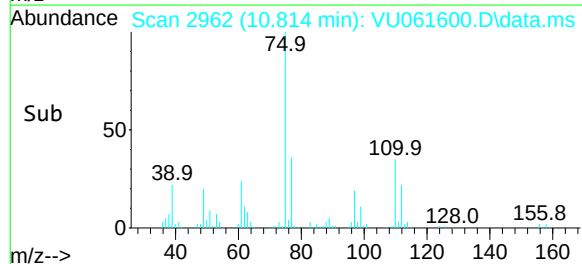
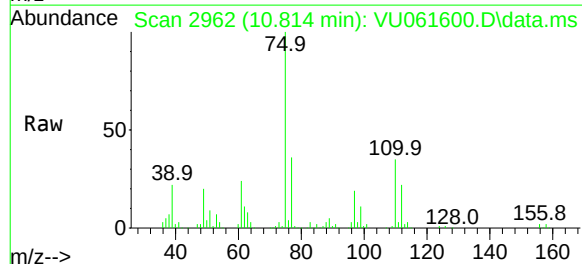
97 17.7 0.0 34.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

Concen: 16.442 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

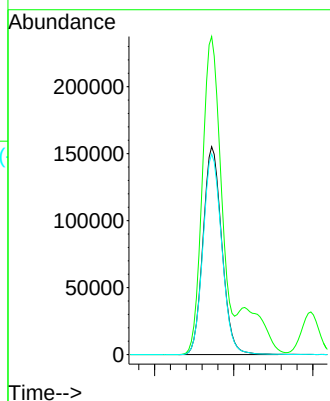
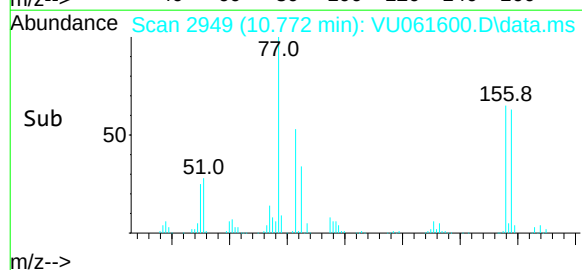
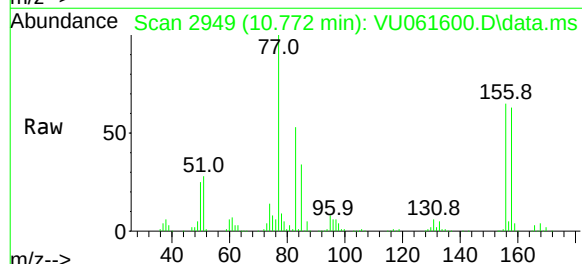
Tgt Ion:156 Resp: 255250

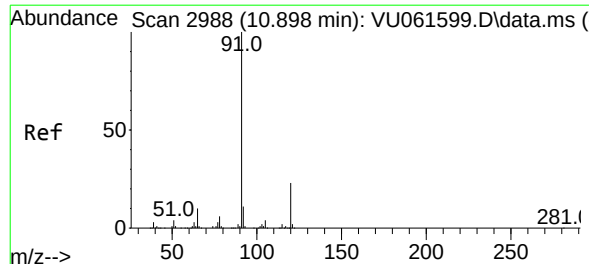
Ion Ratio Lower Upper

156 100

77 153.7 0.0 313.0

158 96.7 0.0 193.2





#73

n-propylbenzene

Concen: 16.998 ug/l

RT: 10.897 min Scan# 2988

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Tgt Ion:120 Resp: 294233

Ion Ratio Lower Upper

120 100

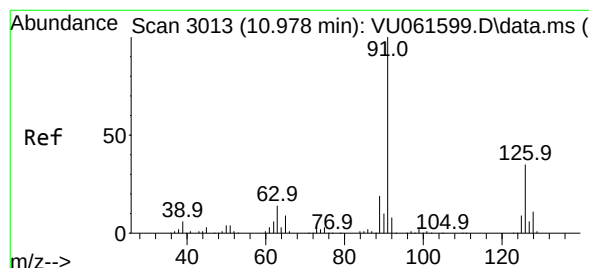
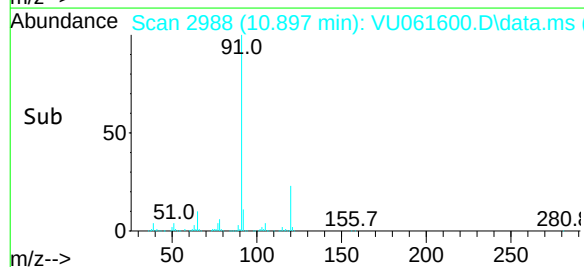
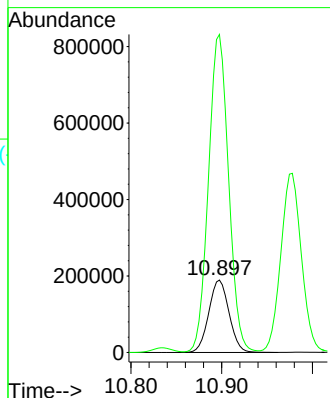
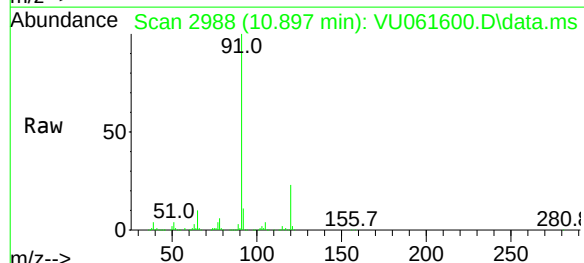
91 433.2 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#74

2-Chlorotoluene

Concen: 16.526 ug/l

RT: 10.978 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU061600.D

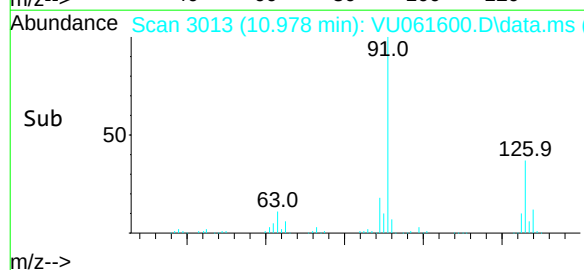
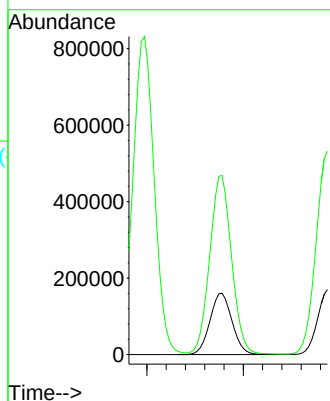
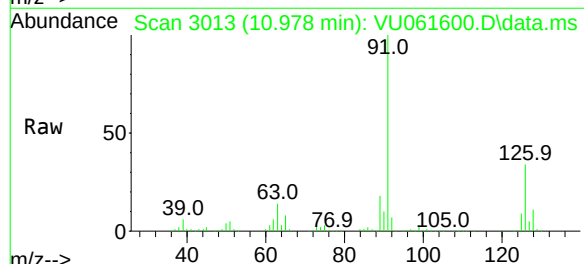
Acq: 12 Nov 2024 11:10

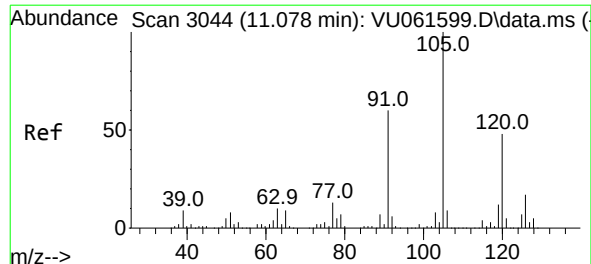
Tgt Ion:126 Resp: 255225

Ion Ratio Lower Upper

126 100

91 288.2 0.0 587.6





#75

1,3,5-Trimethylbenzene

Concen: 16.865 ug/l

RT: 11.078 min Scan# 3044

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:105 Resp: 893965

Ion Ratio Lower Upper

105 100

120 48.7 38.8 58.2

Instrument :

MSVOA_U

ClientSampleId :

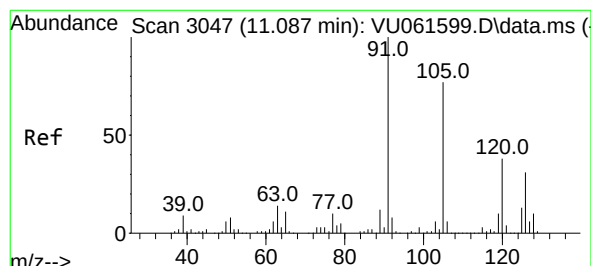
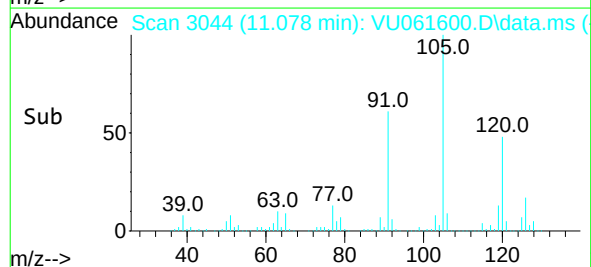
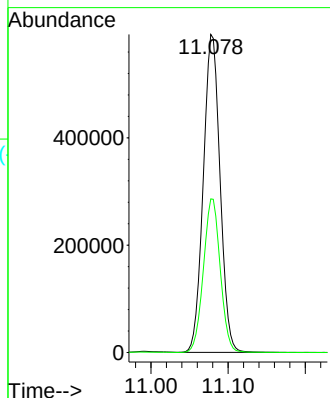
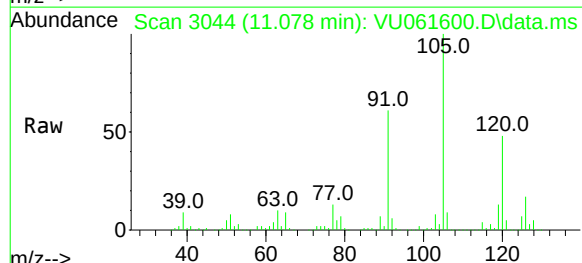
VSTDIC015

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#76

4-Chlorotoluene

Concen: 16.856 ug/l

RT: 11.087 min Scan# 3047

Delta R.T. -0.000 min

Lab File: VU061600.D

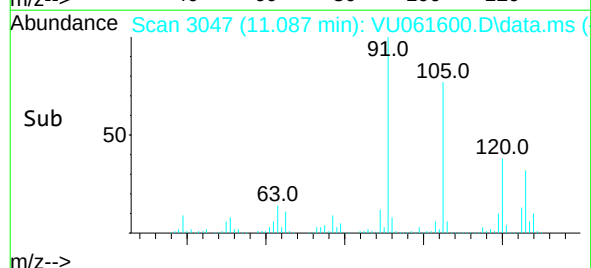
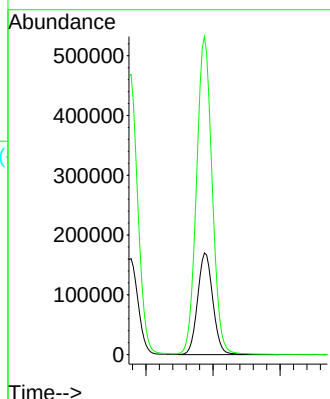
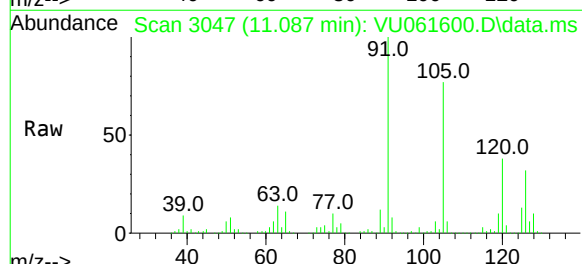
Acq: 12 Nov 2024 11:10

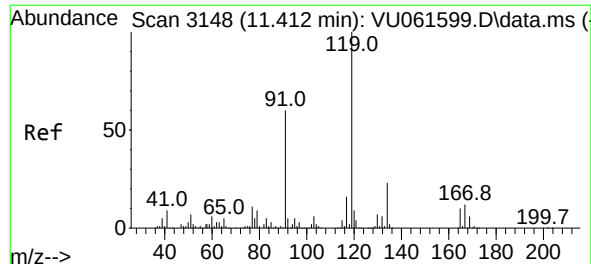
Tgt Ion:126 Resp: 267767

Ion Ratio Lower Upper

126 100

91 321.0 0.0 650.4





#77

tert-Butylbenzene

Concen: 16.864 ug/l

RT: 11.412 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDICC015

Tgt Ion:119 Resp: 872688

Ion Ratio Lower Upper

119 100

91 57.7 29.2 87.6

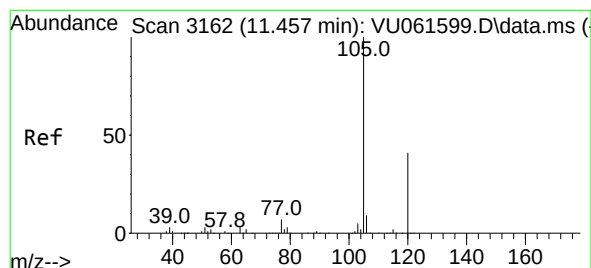
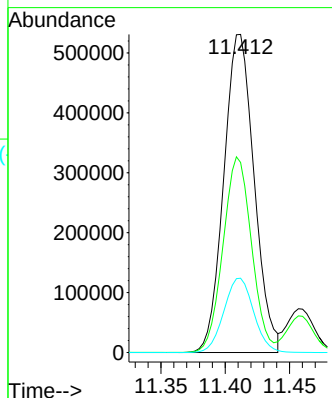
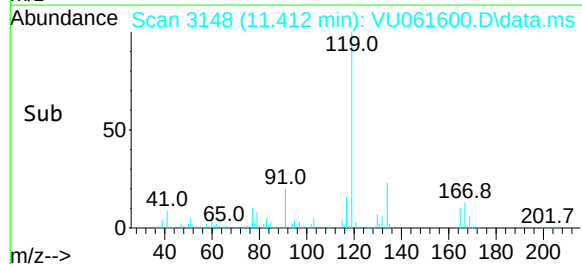
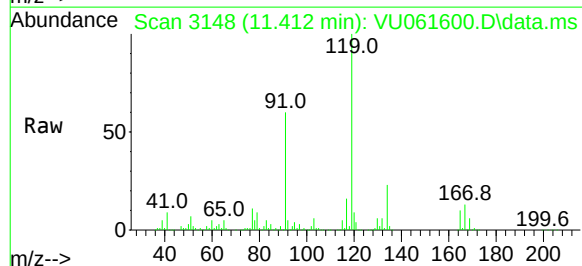
134 22.9 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 14.484 ug/l

RT: 11.457 min Scan# 3162

Delta R.T. -0.000 min

Lab File: VU061600.D

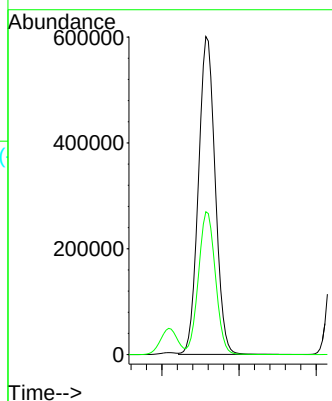
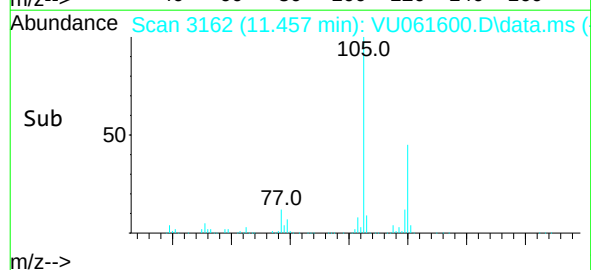
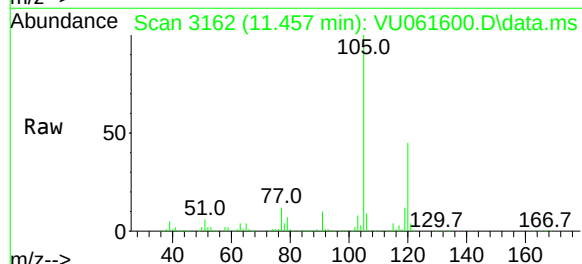
Acq: 12 Nov 2024 11:10

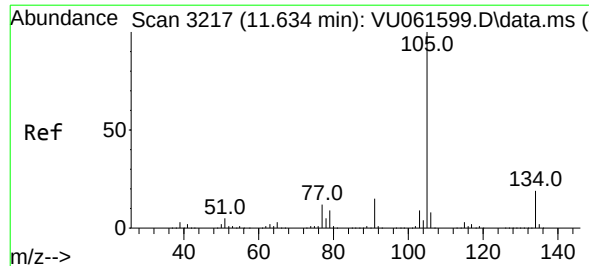
Tgt Ion:105 Resp: 906544

Ion Ratio Lower Upper

105 100

120 45.4 22.7 68.0





#79

sec-Butylbenzene

Concen: 16.624 ug/l

RT: 11.634 min Scan# 3217

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC015

Tgt Ion: 105 Resp: 1140396

Ion Ratio Lower Upper

105 100

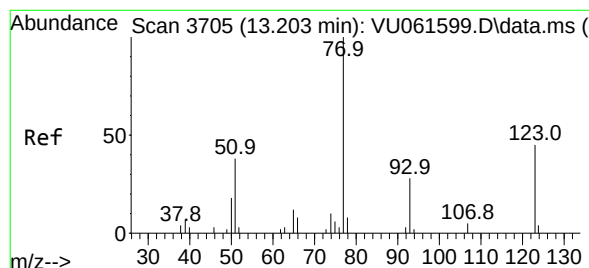
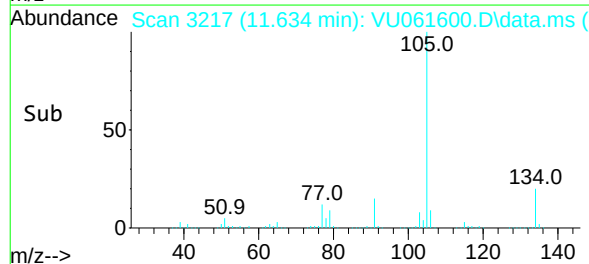
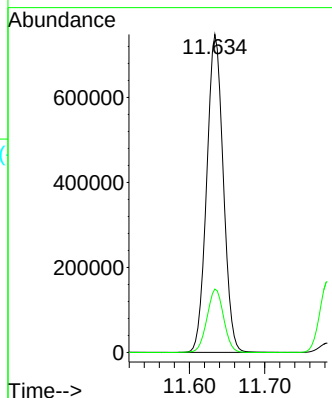
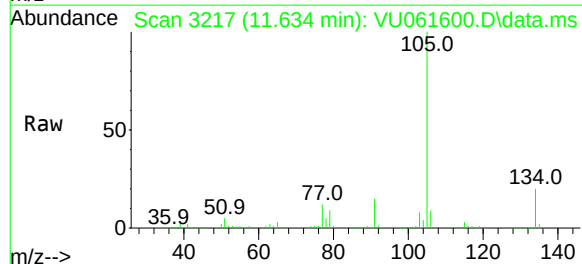
134 20.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#80

Nitrobenzene

Concen: 74.585 ug/l m

RT: 13.200 min Scan# 3704

Delta R.T. -0.003 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

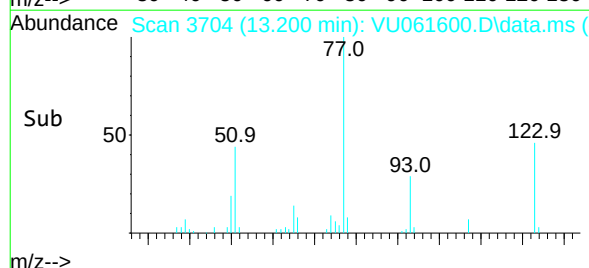
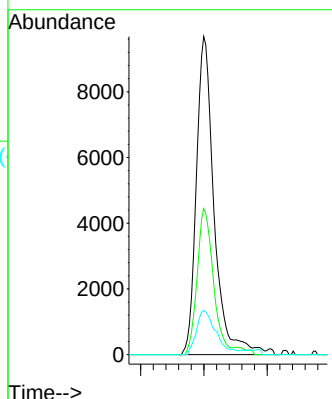
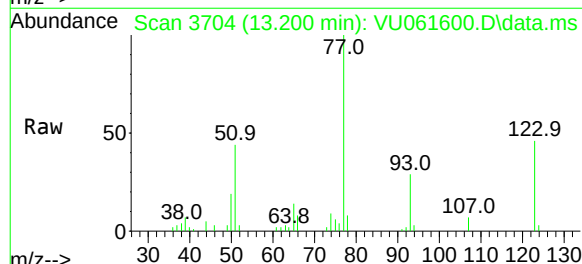
Tgt Ion: 77 Resp: 18918

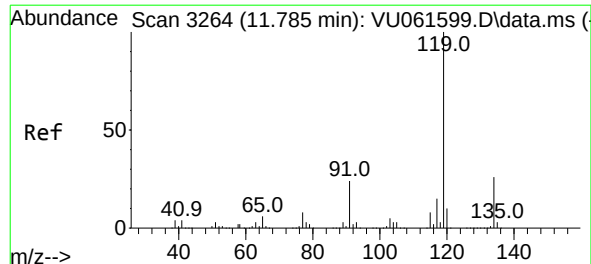
Ion Ratio Lower Upper

77 100

123 39.3 16.9 60.1

65 13.7 9.4 12.0#





#81

p-Isopropyltoluene

Concen: 14.469 ug/l

RT: 11.785 min Scan# 3264

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

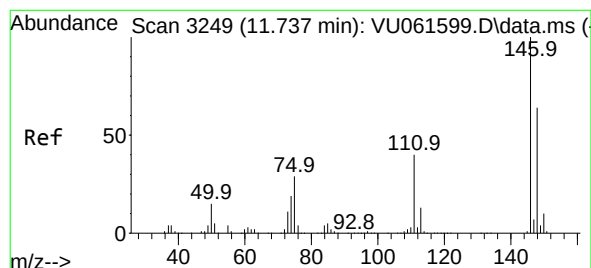
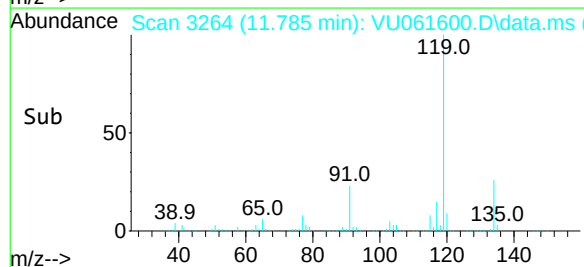
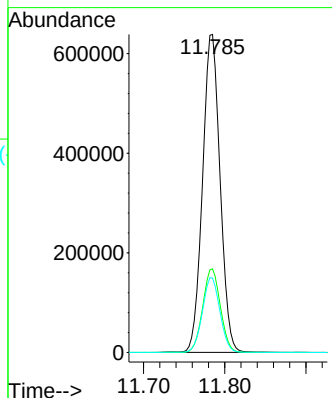
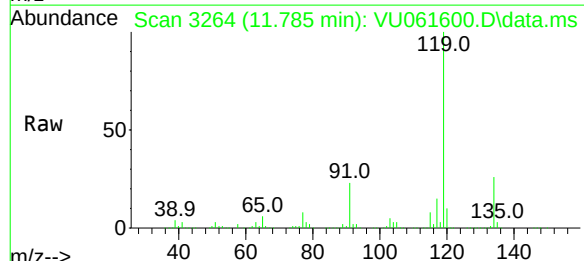
ClientSampleId :

VSTDIC015

Tgt Ion:	119	Resp:	956073
Ion	Ratio	Lower	Upper
119	100		
134	26.5	20.9	31.3
91	23.5	18.8	28.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#82

1,3-Dichlorobenzene

Concen: 16.332 ug/l

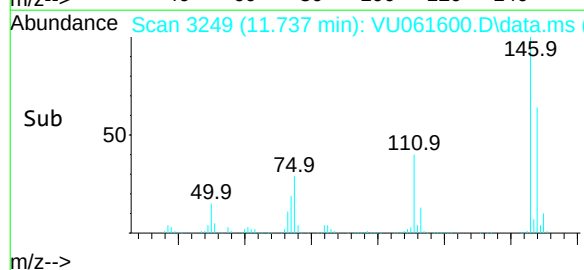
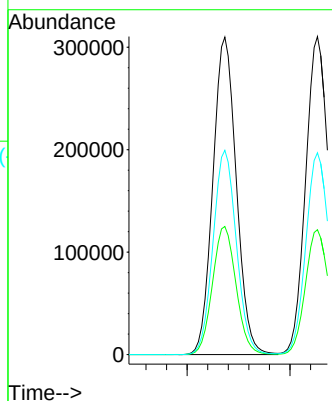
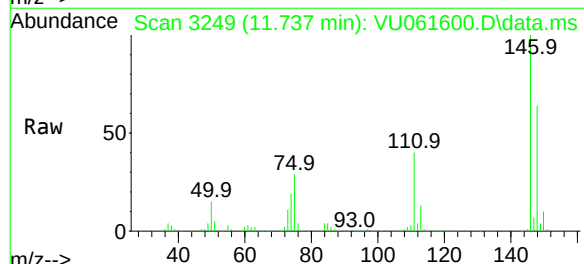
RT: 11.737 min Scan# 3249

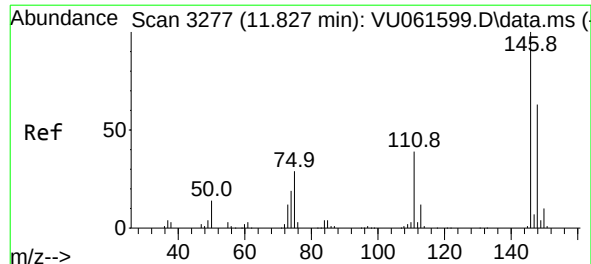
Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	146	Resp:	490377
Ion	Ratio	Lower	Upper
146	100		
111	40.6	32.6	49.0
148	64.2	51.0	76.4





#83

1,4-Dichlorobenzene

Concen: 16.396 ug/l

RT: 11.827 min Scan# 3277

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

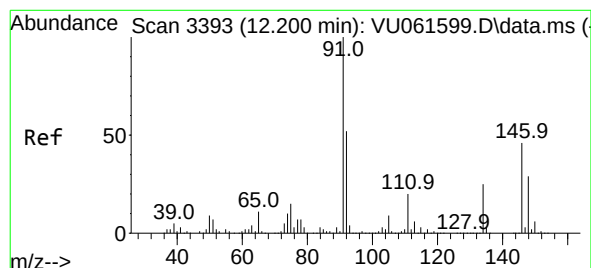
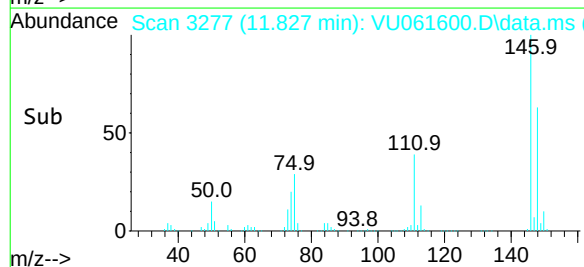
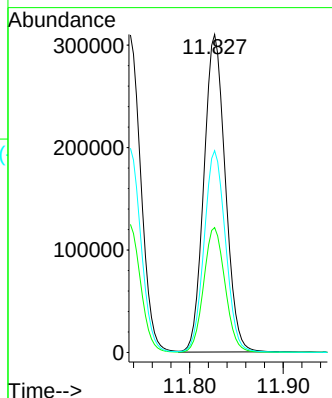
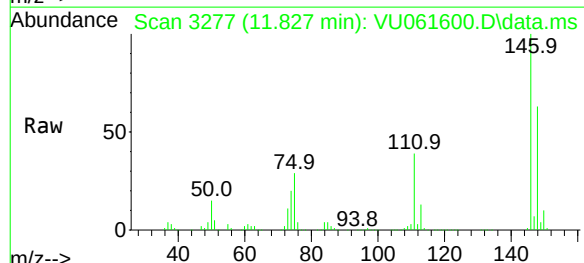
ClientSampleId :

VSTDICC015

Tgt Ion:	146	Resp:	492781
Ion	Ratio	Lower	Upper
146	100		
111	39.4	31.2	46.8
148	63.8	50.2	75.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#84

n-Butylbenzene

Concen: 14.485 ug/l

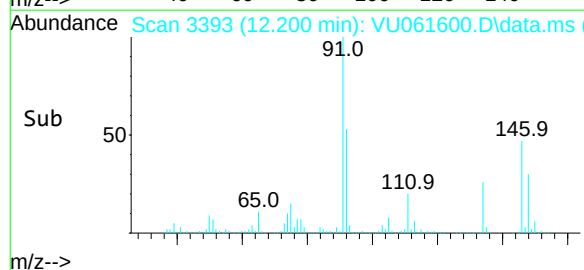
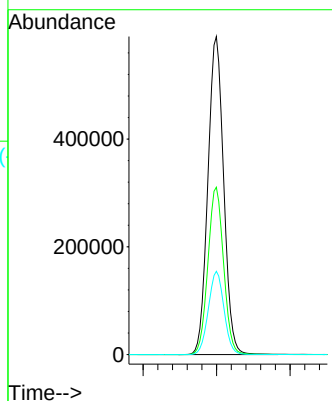
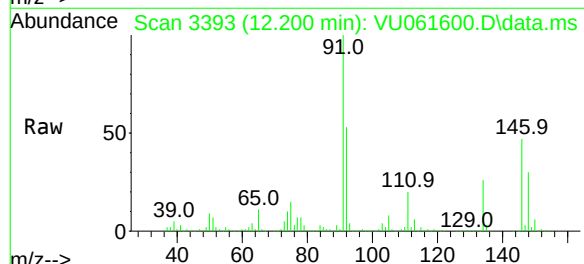
RT: 12.200 min Scan# 3393

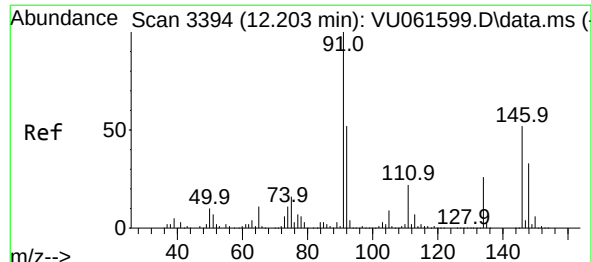
Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	91	Resp:	881289
Ion	Ratio	Lower	Upper
91	100		
92	52.3	41.8	62.6
134	26.0	20.2	30.4





#85

1,2-Dichlorobenzene

Concen: 16.408 ug/l

RT: 12.203 min Scan# 3394

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

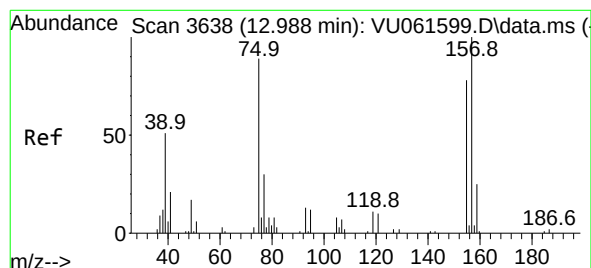
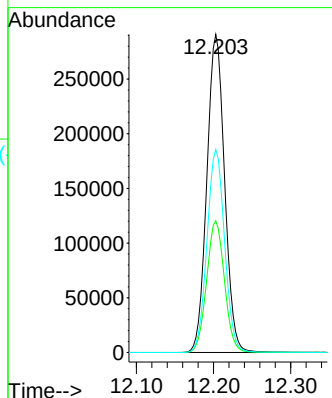
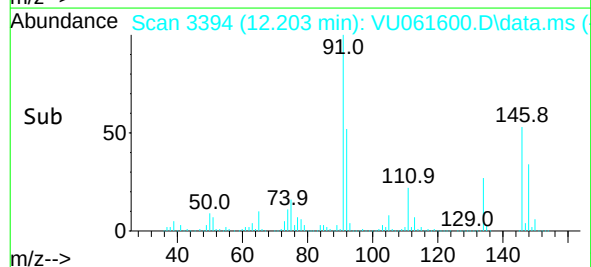
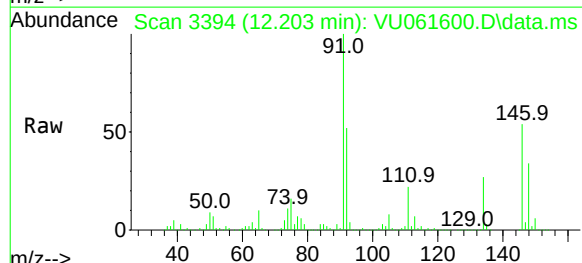
ClientSampleId :

VSTDIC015

Tgt Ion:	146	Resp:	464977
Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.3	63.9
148	63.5	32.0	96.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#86

1,2-Dibromo-3-Chloropropane

Concen: 14.760 ug/l

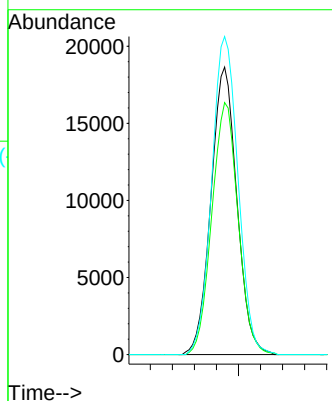
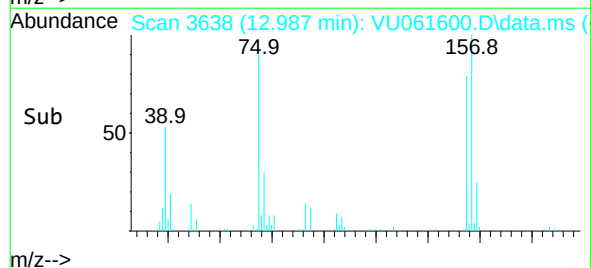
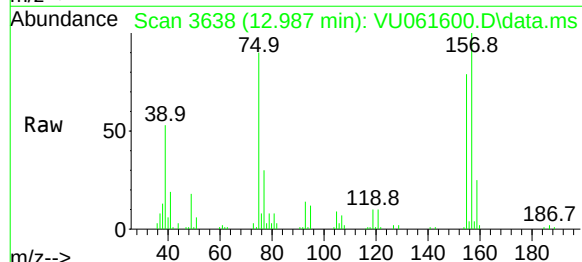
RT: 12.987 min Scan# 3638

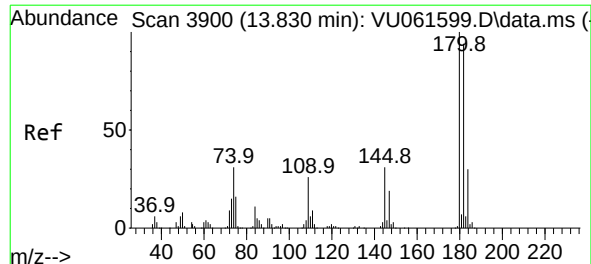
Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	75	Resp:	30489
Ion	Ratio	Lower	Upper
75	100		
155	88.4	68.8	103.2
157	112.2	88.2	132.4





#87

1,2,4-Trichlorobenzene

Concen: 14.831 ug/l

RT: 13.830 min Scan# 3900

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

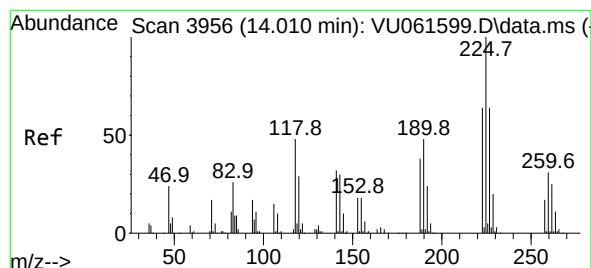
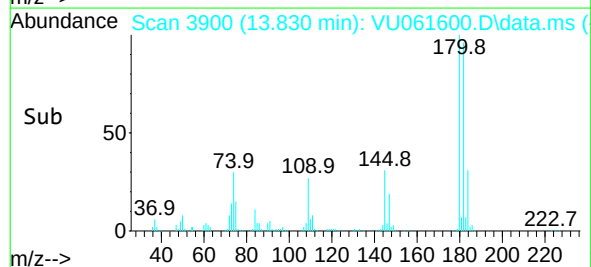
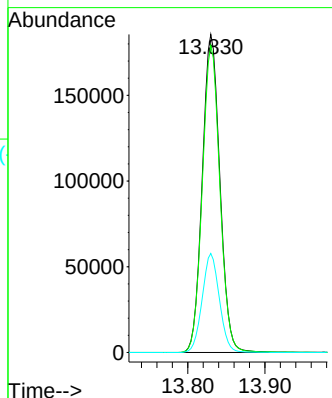
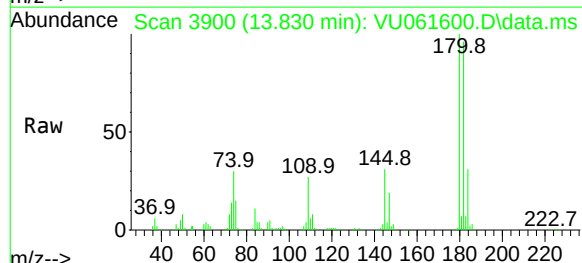
ClientSampleId :

VSTDICC015

Tgt Ion:	180	Resp:	294264
Ion Ratio	Lower	Upper	
180	100		
182	96.1	75.3	112.9
145	30.4	24.3	36.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#88

Hexachlorobutadiene

Concen: 16.413 ug/l

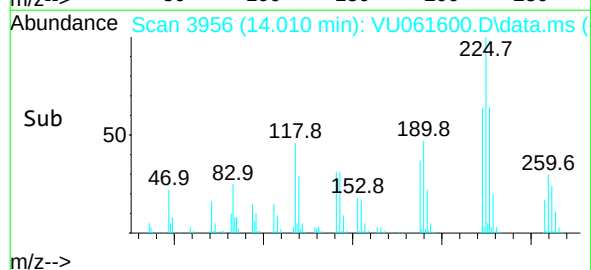
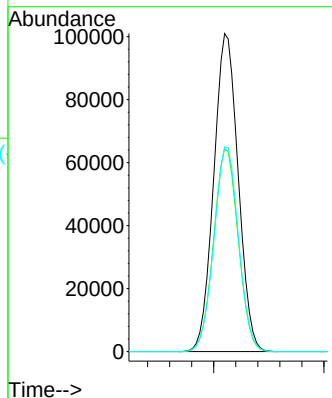
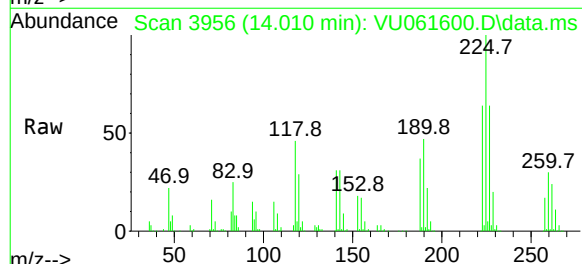
RT: 14.010 min Scan# 3956

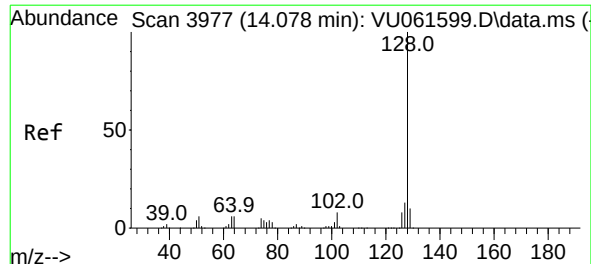
Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	225	Resp:	155334
Ion Ratio	Lower	Upper	
225	100		
223	64.3	50.8	76.2
227	64.7	51.2	76.8





#89

Naphthalene

Concen: 15.006 ug/l

RT: 14.077 min Scan# 39

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Instrument :

MSVOA_U

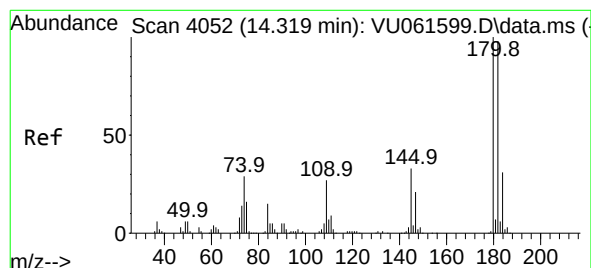
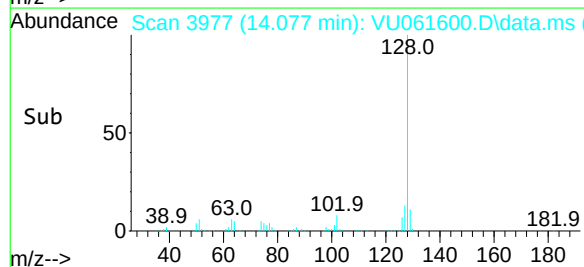
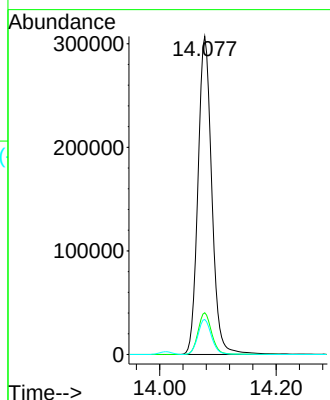
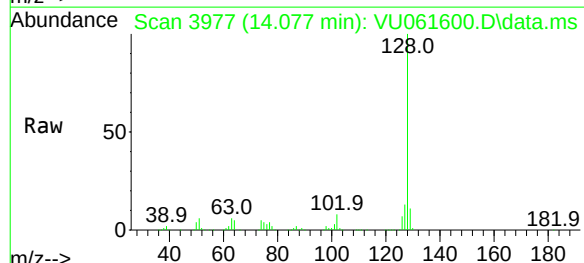
ClientSampleId :

VSTDICC015

Tgt Ion:	128	Resp:	506732
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.9	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#90

1,2,3-Trichlorobenzene

Concen: 14.945 ug/l

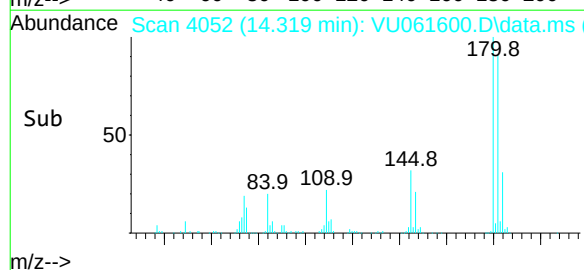
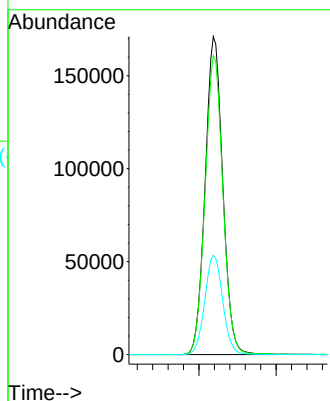
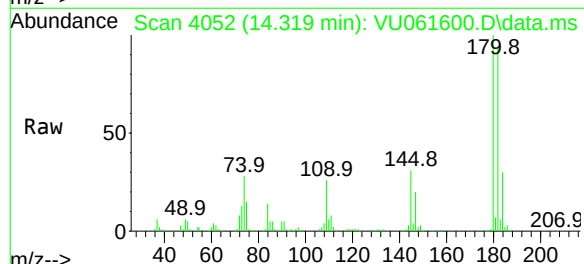
RT: 14.319 min Scan# 4052

Delta R.T. -0.000 min

Lab File: VU061600.D

Acq: 12 Nov 2024 11:10

Tgt Ion:	180	Resp:	271334
Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.9	116.9
145	31.8	25.9	38.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061601.D
 Acq On : 12 Nov 2024 12:20
 Operator : MD/SY
 Sample : VSTDICV010
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ICSVU111224

Quant Time: Nov 13 05:03:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 05:00:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024
 Supervised By : Mahesh Dadoda 11/13/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.107	96	50805	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	17724	1.006	ug/l	0.00
Spiked Amount	1.000		Recovery	=	101.000%	
68) 1,2-Dichlorobenzene-d4	12.187	152	18993	1.082	ug/l	0.00
Spiked Amount	1.000		Recovery	=	108.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	95207	7.290	ug/l	98
3) Chloromethane	1.518	50	103704	8.304	ug/l	100
4) Vinyl Chloride	1.602	62	122321	8.704	ug/l	99
5) Bromomethane	1.856	94	84554	9.529	ug/l	98
6) Chloroethane	1.930	64	94596	8.323	ug/l	97
7) Trichlorofluoromethane	2.133	101	186354	9.265	ug/l	99
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	117488	10.913	ug/l	99
9) 1,1-Dichloroethene	2.573	96	118422	10.499	ug/l	98
10) Iodomethane	2.718	142	120554	9.102	ug/l	99
11) Allyl Chloride	2.917	41	141643	10.853	ug/l	98
12) Acrylonitrile	3.313	53	114501	51.332	ug/l	96
13) Acetone	2.641	43	174240	55.962	ug/l	98
14) Carbon Disulfide	2.788	76	353040	9.687	ug/l	99
15) Methylene Chloride	3.039	84	133078	9.769	ug/l	99
16) trans-1,2-Dichloroethene	3.345	96	129439	9.879	ug/l	98
17) 1,1-Dichloroethane	3.859	63	230951	9.884	ug/l	100
18) 2-Butanone	4.702	43	192372	53.279	ug/l	98
19) Cyclohexane	5.380	56	193780m	10.222	ug/l	
20) Methylcyclohexane	6.756	83	233944	11.005	ug/l	100
21) 2,2-Dichloropropane	4.653	77	194427	10.346	ug/l	98
22) cis-1,2-Dichloroethene	4.657	96	157452	11.016	ug/l	97
23) Diethyl Ether	2.370	59	78194	9.301	ug/l	99
24) tert-Butyl Alcohol	3.239	59	40409m	47.132	ug/l	
25) Methyl tert-Butyl Ether	3.354	73	283154	10.241	ug/l	99
26) Bromochloromethane	4.965	128	66506	10.561	ug/l	99
27) Chloroform	5.078	83	247923	10.004	ug/l	100
28) 1,1,1-Trichloroethane	5.306	97	212205	10.364	ug/l	99
29) 1,1-Dichloropropene	5.518	75	176069	9.571	ug/l	99
30) Carbon Tetrachloride	5.515	117	184055	10.487	ug/l	98
31) Isopropyl Ether	3.981	45	334526	10.759	ug/l	# 1
34) Propionitrile	4.782	54	90623	104.526	ug/l	99
35) Benzene	5.766	78	554859	10.120	ug/l	99
36) 1,2-Dichloroethane	5.785	62	141737	9.303	ug/l	99
37) Trichloroethene	6.534	130	140872	9.703	ug/l	97
38) 1,2-Dichloropropane	6.782	63	130710	9.495	ug/l	100
39) Methacrylonitrile	4.968	41	31433	10.453	ug/l	97
40) Methyl acrylate	4.840	55	62959	11.353	ug/l	94
41) Tetrahydrofuran	5.049	42	86292	50.589	ug/l	97
42) 1-Chlorobutane	5.448	56	241252	10.509	ug/l	97
43) Dibromomethane	6.910	93	72729	9.976	ug/l	99
44) Bromodichloromethane	7.097	83	178609	10.848	ug/l	100
45) 4-Methyl-2-Pentanone	7.782	43	348181	51.339	ug/l	100
46) t-1,4-Dichloro-2-butene	10.820	75	44492m	11.987	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061601.D
 Acq On : 12 Nov 2024 12:20
 Operator : MD/SY
 Sample : VSTDICV010
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ICVVU111224

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024
 Supervised By : Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 05:03:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 05:00:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Methyl methacrylate	6.955	69	60918	10.527	ug/l	96
48) Ethyl methacrylate	8.325	69	124939	10.621	ug/l	100
49) Toluene	7.962	92	348704	10.415	ug/l	98
50) t-1,3-Dichloropropene	8.203	75	158469	10.757	ug/l	98
51) cis-1,3-Dichloropropene	7.599	75	190109	10.059	ug/l	99
52) 1,1,2-Trichloroethane	8.390	97	95906	9.596	ug/l	98
53) 1,3-Dichloropropane	8.566	76	162271	9.514	ug/l	99
54) 2-Hexanone	8.676	43	317773	54.993	ug/l	100
55) Dibromochloromethane	8.801	129	116138	10.735	ug/l	100
56) 1,2-Dibromoethane	8.917	107	91296	9.719	ug/l	100
58) Tetrachloroethene	8.547	164	132596	10.153	ug/l	99
59) Chlorobenzene	9.438	112	385865	10.432	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.525	131	122062	9.999	ug/l	99
61) Pentachloroethane	11.418	117	103475	11.265	ug/l	99
62) Hexachloroethane	12.467	117	98419	9.823	ug/l	99
63) Ethyl Benzene	9.563	91	677309	10.876	ug/l	100
64) m/p-Xylenes	9.685	106	539962	22.515	ug/l	100
65) o-Xylene	10.094	106	255469	10.924	ug/l	98
66) Styrene	10.107	104	421656	9.885	ug/l	99
67) Bromoform	10.283	173	62406	11.119	ug/l	99
69) Isopropylbenzene	10.476	105	669504	12.240	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.772	83	116816	9.492	ug/l	100
71) 1,2,3-Trichloropropane	10.814	75	87064m	8.791	ug/l	
72) Bromobenzene	10.772	156	155500	10.723	ug/l	100
73) n-propylbenzene	10.897	120	184835	11.430	ug/l	99
74) 2-Chlorotoluene	10.978	126	161923	11.223	ug/l	100
75) 1,3,5-Trimethylbenzene	11.081	105	572526	11.562	ug/l	100
76) 4-Chlorotoluene	11.090	126	168047	11.324	ug/l	98
77) tert-Butylbenzene	11.412	119	560051	11.585	ug/l	100
78) 1,2,4-Trimethylbenzene	11.460	105	571579	9.854	ug/l	99
79) sec-Butylbenzene	11.634	105	739347	11.537	ug/l	100
80) Nitrobenzene	13.212	77	2060	12.624	ug/l #	86
81) p-Isopropyltoluene	11.785	119	620301	10.130	ug/l	100
82) 1,3-Dichlorobenzene	11.737	146	315514	11.249	ug/l	100
83) 1,4-Dichlorobenzene	11.830	146	316205	11.262	ug/l	99
84) n-Butylbenzene	12.200	91	581721	10.312	ug/l	100
85) 1,2-Dichlorobenzene	12.203	146	290374	10.969	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.987	75	16000	8.457	ug/l	100
87) 1,2,4-Trichlorobenzene	13.833	180	185739	10.164	ug/l	99
88) Hexachlorobutadiene	14.013	225	97103	10.983	ug/l	99
89) Naphthalene	14.081	128	287618	9.349	ug/l	100
90) 1,2,3-Trichlorobenzene	14.322	180	155099	9.321	ug/l	98

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

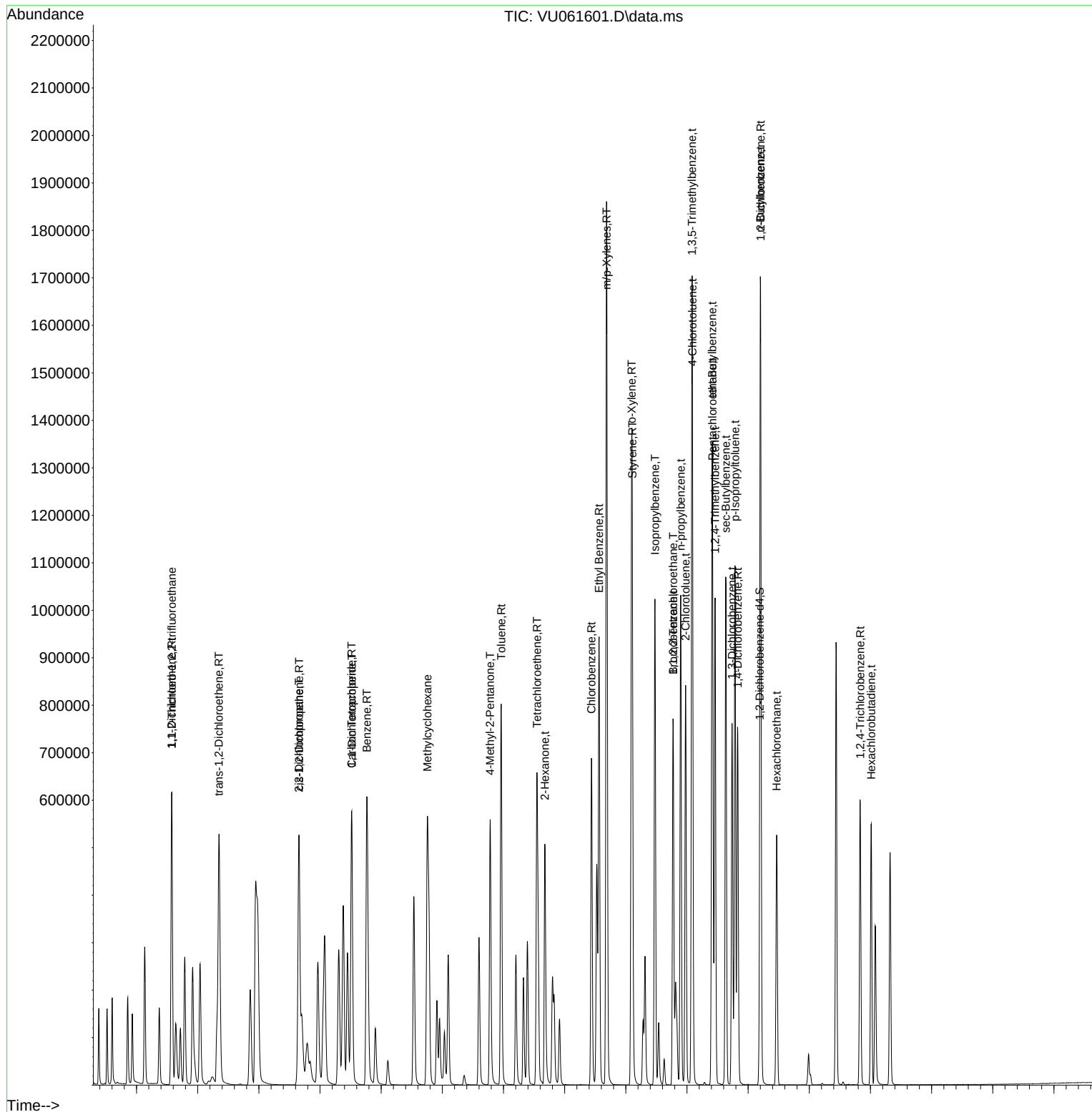
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Data File : VU061601.D
Acq On : 12 Nov 2024 12:20
Operator : MD/SY
Sample : VSTDICV010
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

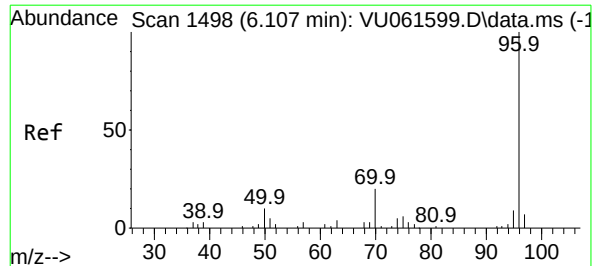
Instrument :
MSVOA_U
ClientSampleId :
ICVVU111224

Quant Time: Nov 13 05:03:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 05:00:10 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024
Supervised By : Mahesh Dadoda 11/13/2024





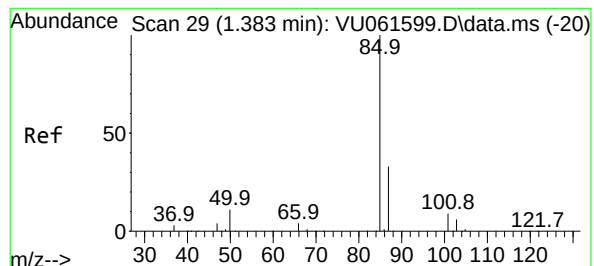
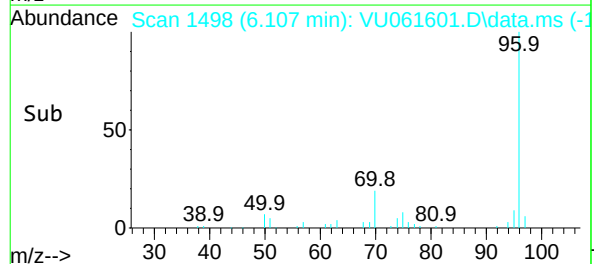
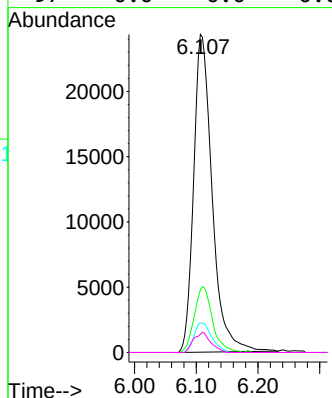
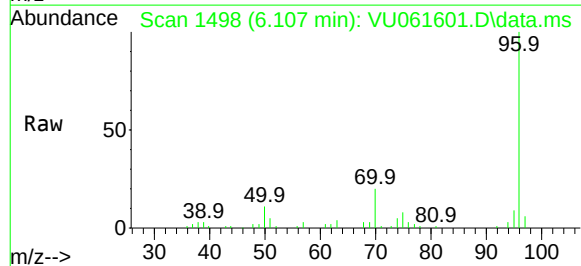
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.107 min Scan# 1498
Delta R.T. -0.000 min
Lab File: VU061601.D
Acq: 12 Nov 2024 12:20

Instrument :
MSVOA_U
ClientSampleId :
ICVVU111224

Tgt Ion	Ratio	Lower	Upper
96	100		
70	20.3	15.8	23.6
95	9.0	7.3	10.9
97	0.0	0.0	0.0

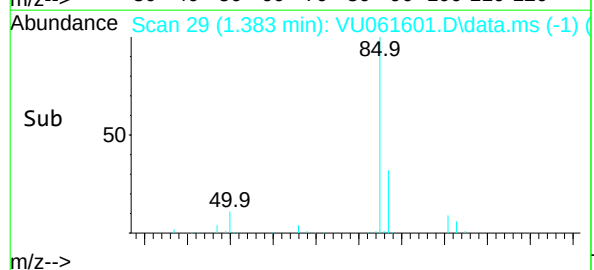
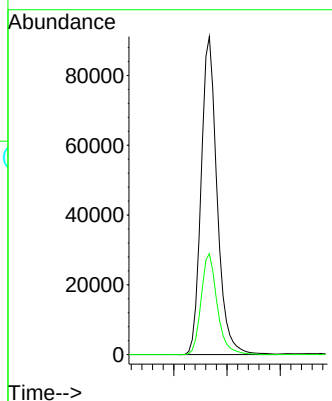
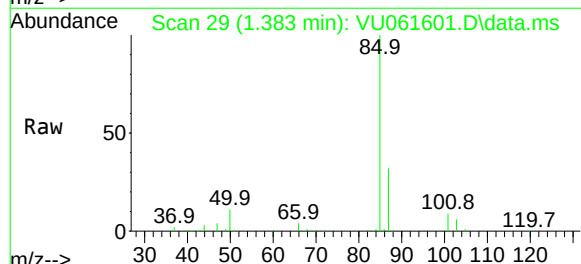
Manual Integrations
APPROVED

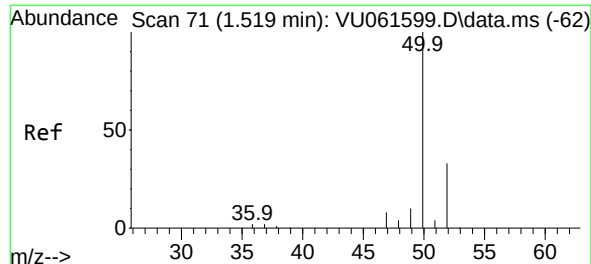
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#2
Dichlorodifluoromethane
Concen: 7.290 ug/l
RT: 1.383 min Scan# 29
Delta R.T. -0.000 min
Lab File: VU061601.D
Acq: 12 Nov 2024 12:20

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.4	49.2





#3

Chloromethane

Concen: 8.304 ug/l

RT: 1.518 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 50 Resp: 103704

Ion Ratio Lower Upper

50 100

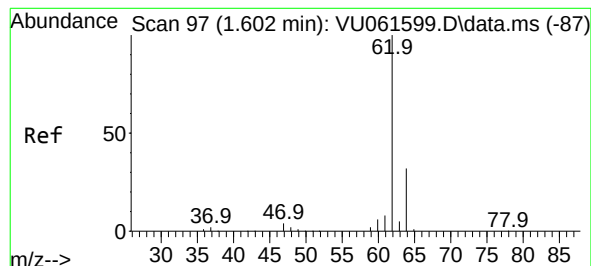
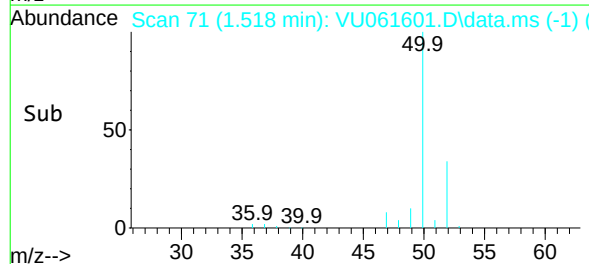
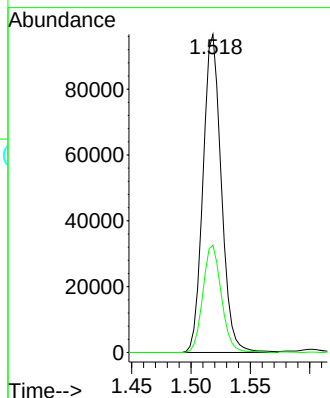
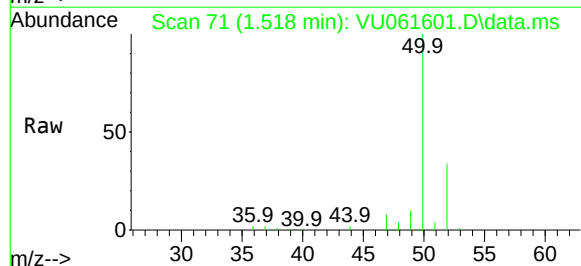
52 33.7 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 8.704 ug/l

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU061601.D

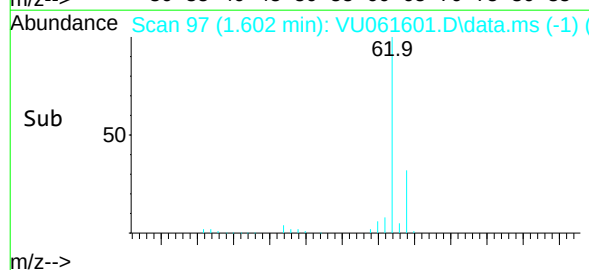
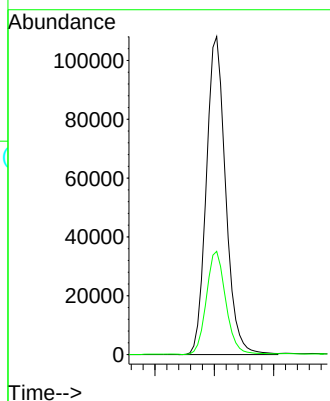
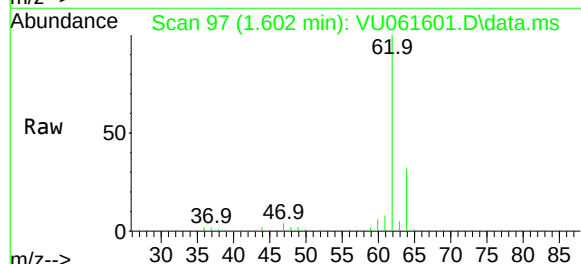
Acq: 12 Nov 2024 12:20

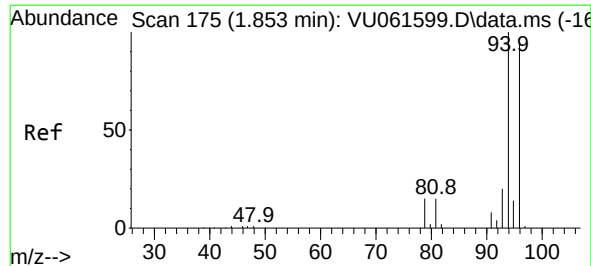
Tgt Ion: 62 Resp: 122321

Ion Ratio Lower Upper

62 100

64 32.3 25.6 38.4



#5
Bromomethane

Concen: 9.529 ug/l

RT: 1.856 min Scan# 175

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 94 Resp: 84554

Ion Ratio Lower Upper

94 100

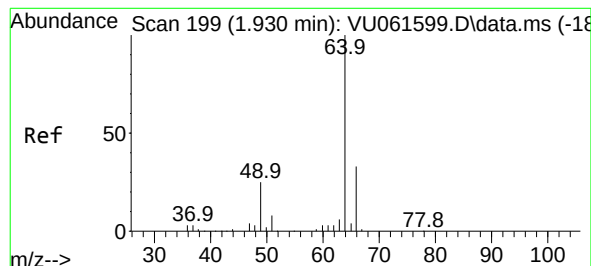
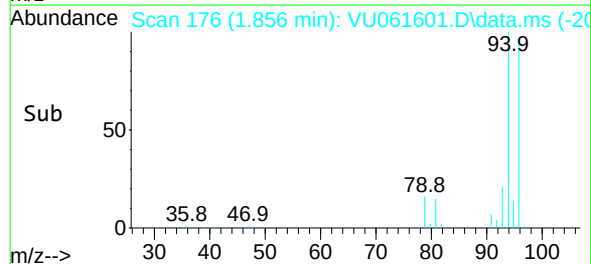
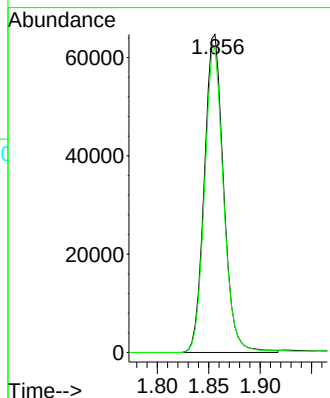
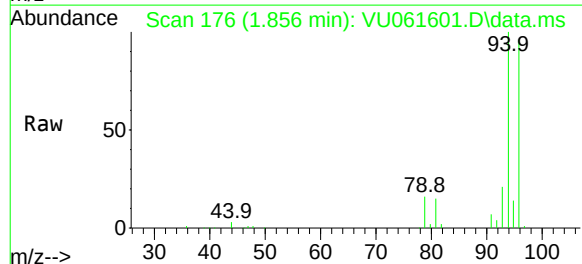
96 95.9 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#6

Chloroethane

Concen: 8.323 ug/l

RT: 1.930 min Scan# 199

Delta R.T. -0.000 min

Lab File: VU061601.D

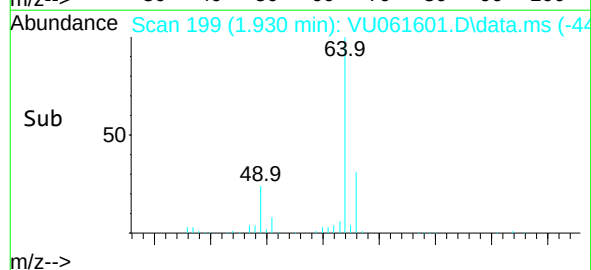
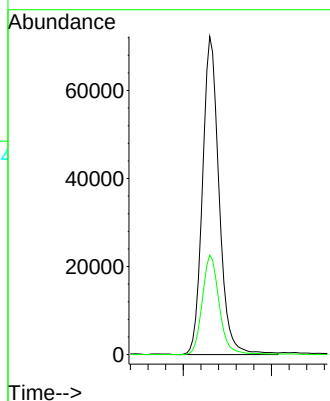
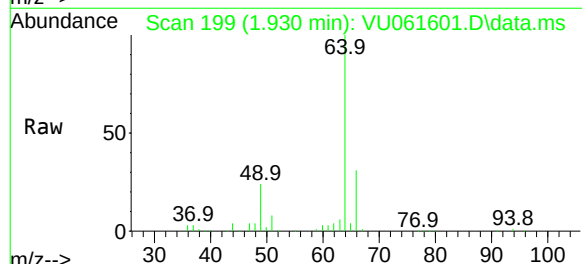
Acq: 12 Nov 2024 12:20

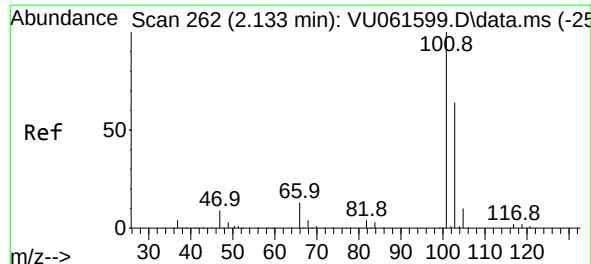
Tgt Ion: 64 Resp: 94596

Ion Ratio Lower Upper

64 100

66 31.3 26.2 39.2





#7

Trichlorofluoromethane

Concen: 9.265 ug/l

RT: 2.133 min Scan# 262

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion:101 Resp: 186354

Ion Ratio Lower Upper

101 100

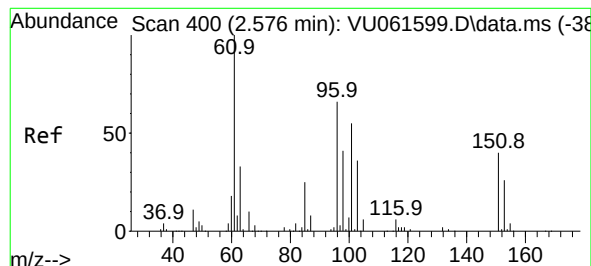
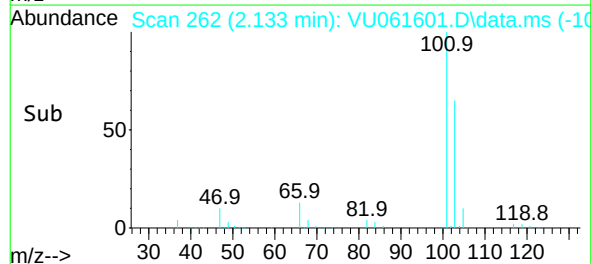
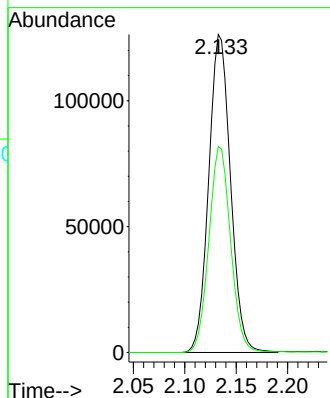
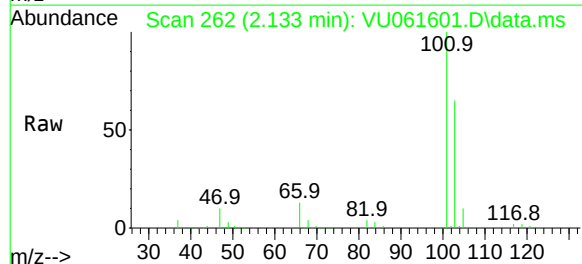
103 64.8 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 10.913 ug/l

RT: 2.576 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

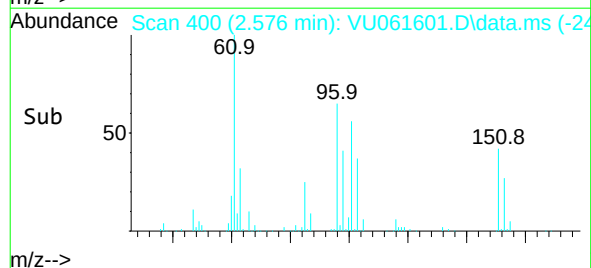
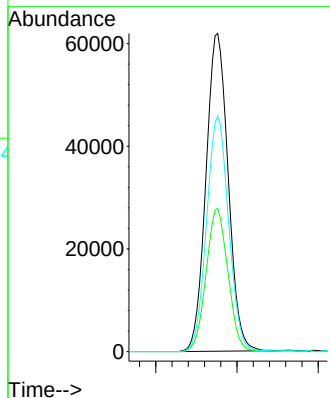
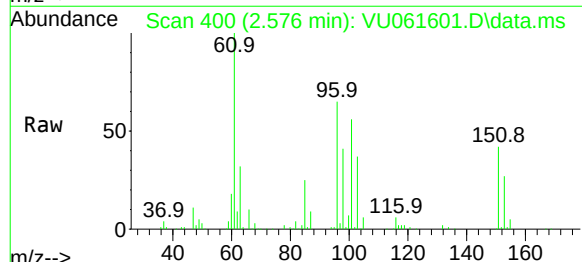
Tgt Ion:101 Resp: 117488

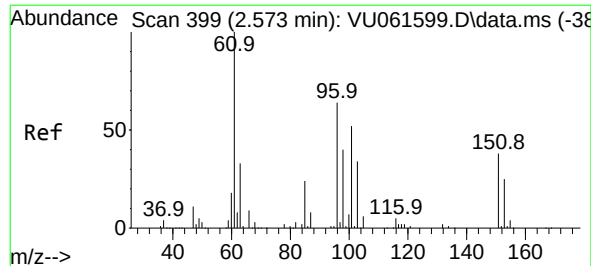
Ion Ratio Lower Upper

101 100

85 44.3 36.0 54.0

151 73.7 58.6 87.8





#9

1,1-Dichloroethene

Concen: 10.499 ug/l

RT: 2.573 min Scan# 399

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 96 Resp: 118422

Ion Ratio Lower Upper

96 100

61 152.9 0.0 467.7

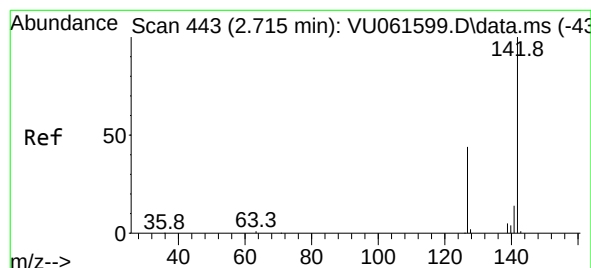
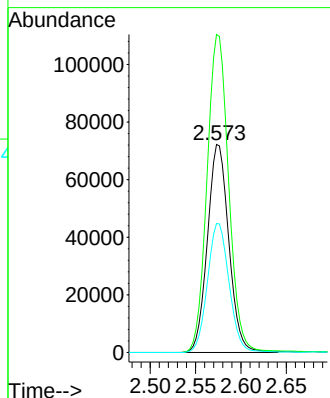
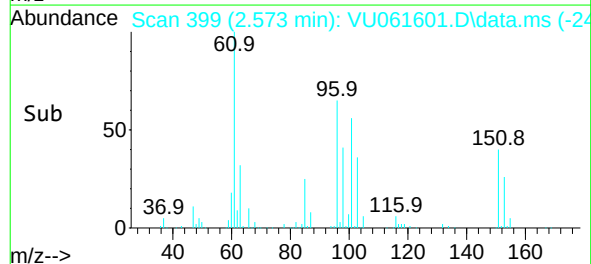
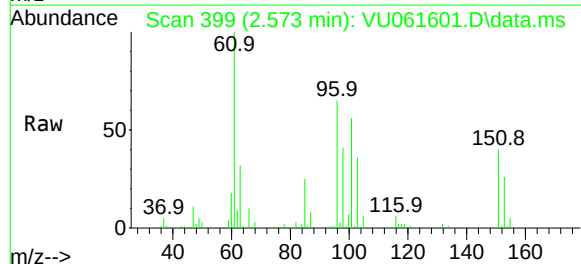
98 62.0 0.0 125.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#10

Iodomethane

Concen: 9.102 ug/l

RT: 2.718 min Scan# 444

Delta R.T. 0.003 min

Lab File: VU061601.D

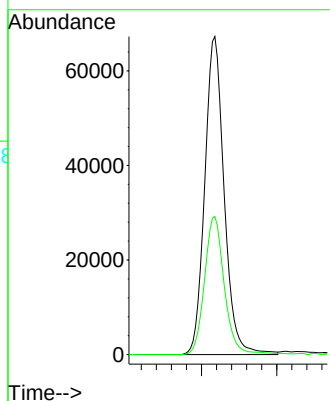
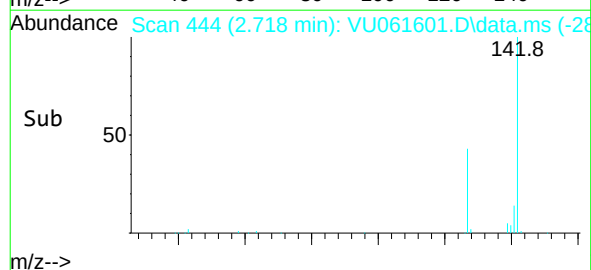
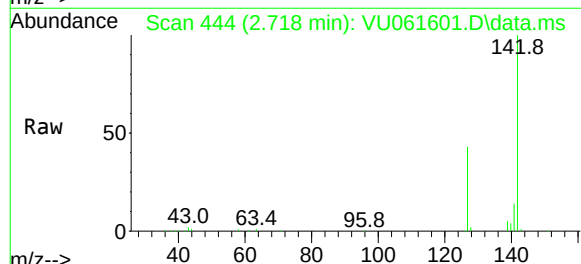
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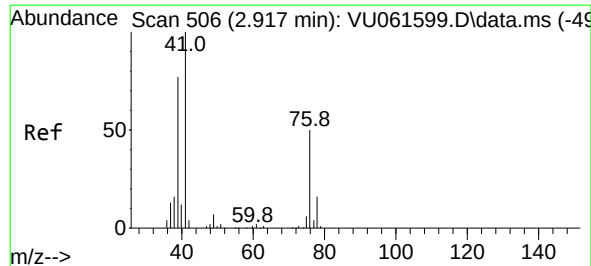
Tgt Ion:142 Resp: 120554

Ion Ratio Lower Upper

142 100

127 44.4 34.8 52.2





#11

Allyl Chloride

Concen: 10.853 ug/l

RT: 2.917 min Scan# 506

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 41 Resp: 141643

Ion Ratio Lower Upper

41 100

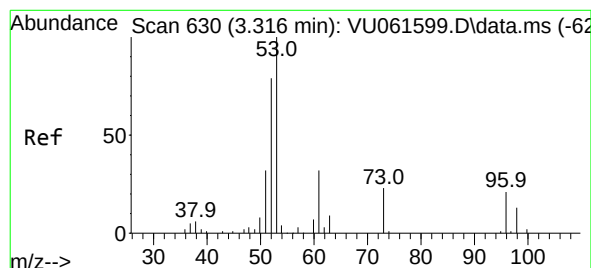
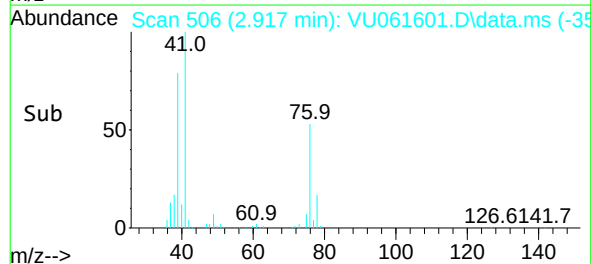
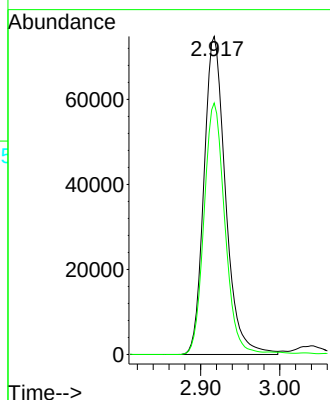
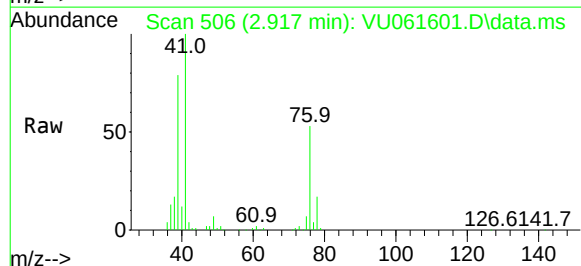
39 76.3 62.2 93.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#12

Acrylonitrile

Concen: 51.332 ug/l

RT: 3.313 min Scan# 629

Delta R.T. -0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

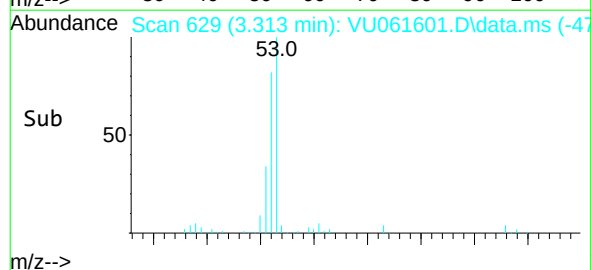
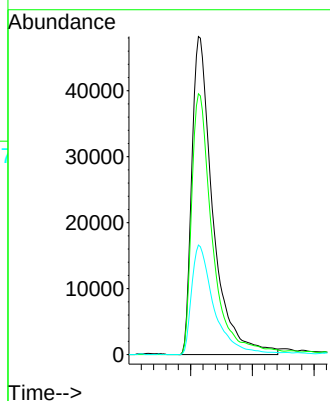
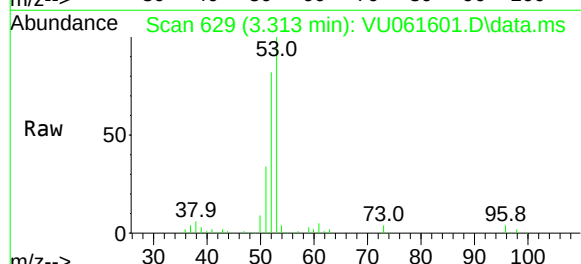
Tgt Ion: 53 Resp: 114501

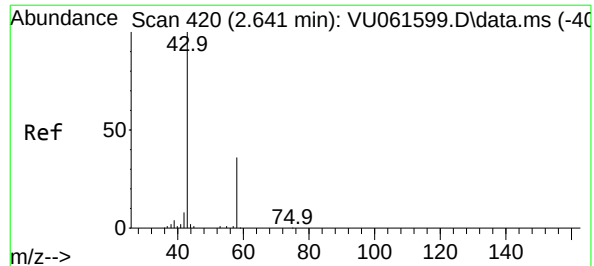
Ion Ratio Lower Upper

53 100

52 80.9 62.1 93.1

51 36.7 30.9 46.3





#13

Acetone

Concen: 55.962 ug/l

RT: 2.641 min Scan# 420

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 43 Resp: 174240

Ion Ratio Lower Upper

43 100

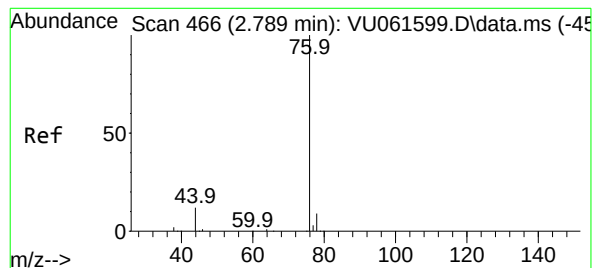
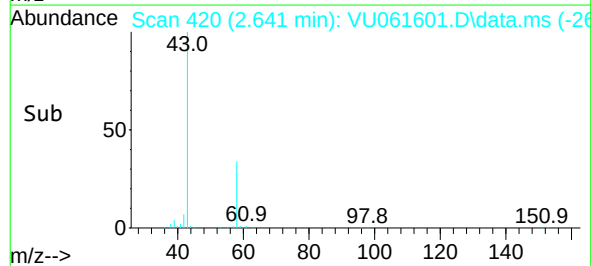
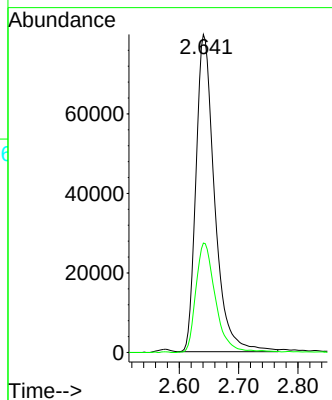
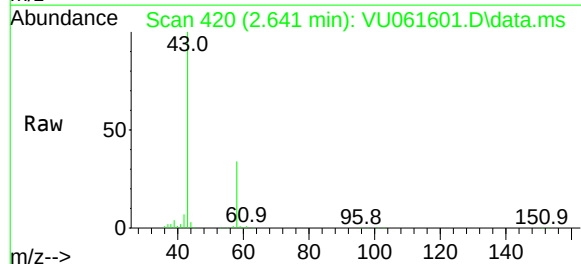
58 34.3 28.5 42.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#14

Carbon Disulfide

Concen: 9.687 ug/l

RT: 2.788 min Scan# 466

Delta R.T. -0.000 min

Lab File: VU061601.D

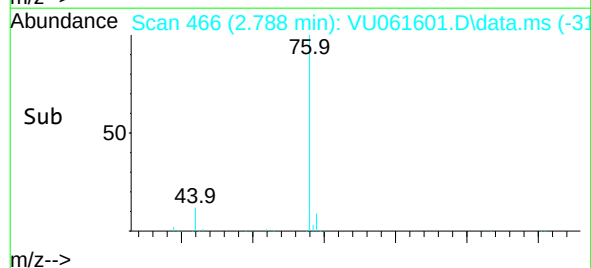
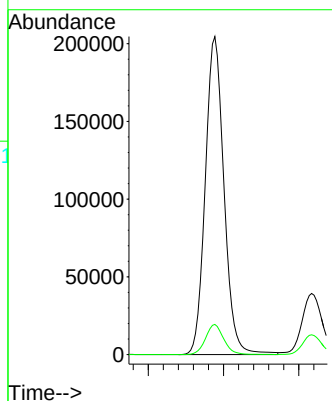
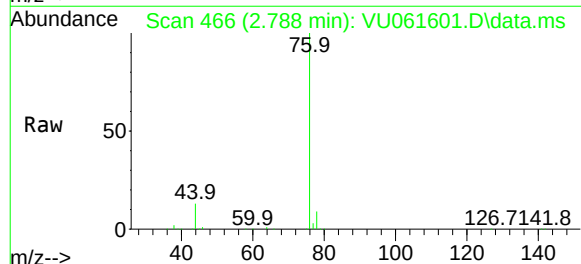
Acq: 12 Nov 2024 12:20

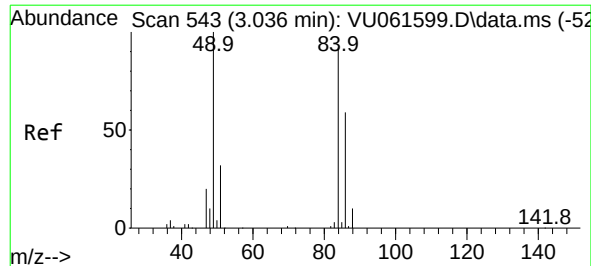
Tgt Ion: 76 Resp: 353040

Ion Ratio Lower Upper

76 100

78 9.5 7.3 10.9





#15

Methylene Chloride

Concen: 9.769 ug/l

RT: 3.039 min Scan# 543

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 84 Resp: 133078

Ion Ratio Lower Upper

84 100

49 108.2 87.4 131.0

51 34.4 0.0 69.6

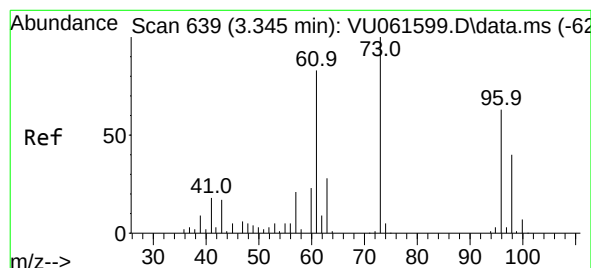
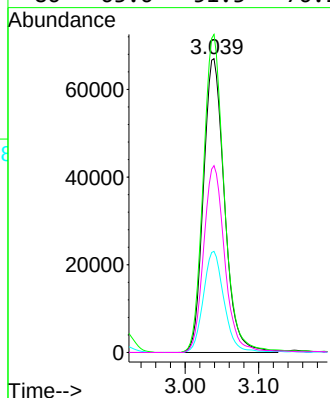
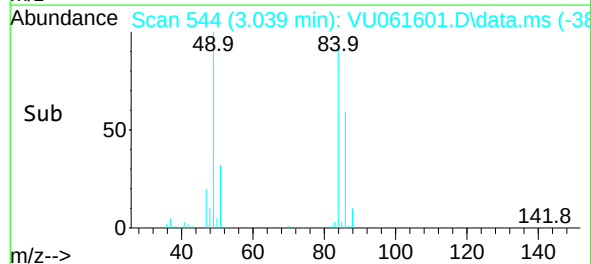
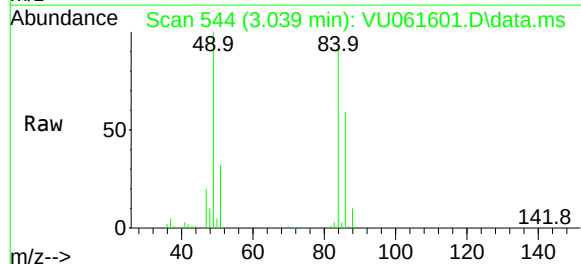
86 63.6 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#16

trans-1,2-Dichloroethene

Concen: 9.879 ug/l

RT: 3.345 min Scan# 639

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

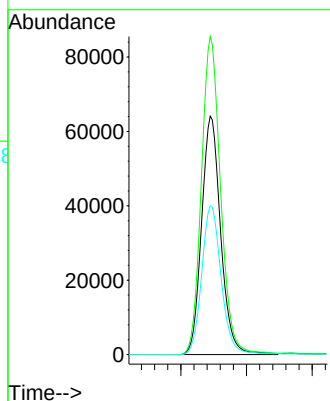
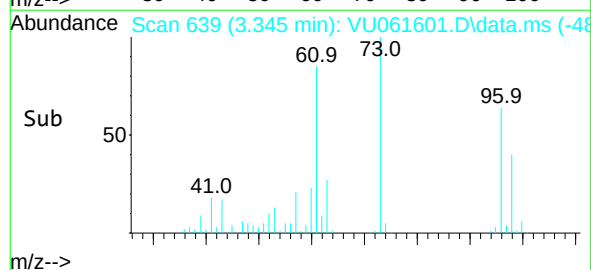
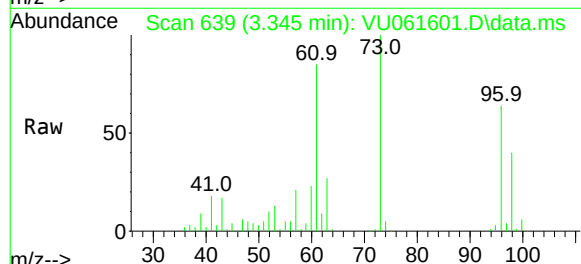
Tgt Ion: 96 Resp: 129439

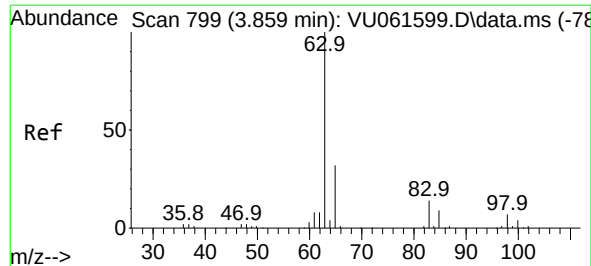
Ion Ratio Lower Upper

96 100

61 133.4 105.0 157.4

98 62.4 50.4 75.6





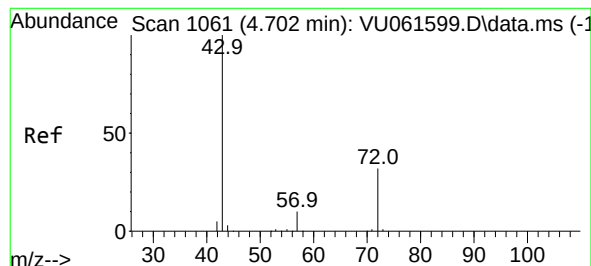
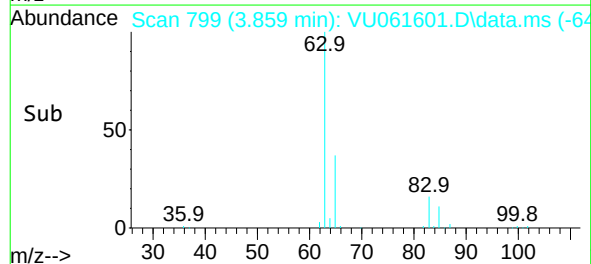
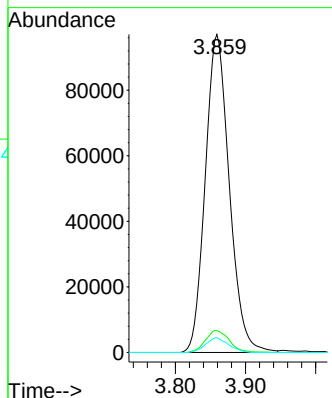
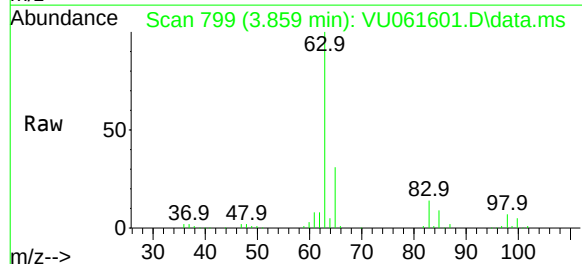
#17
1,1-Dichloroethane
Concen: 9.884 ug/l
RT: 3.859 min Scan# 799
Delta R.T. -0.000 min
Lab File: VU061601.D
Acq: 12 Nov 2024 12:20

Instrument :
MSVOA_U
ClientSampleId :
ICVVU111224

Tgt Ion: 63 Resp: 230951
Ion Ratio Lower Upper
63 100
98 6.9 3.4 10.2
100 4.6 2.2 6.6

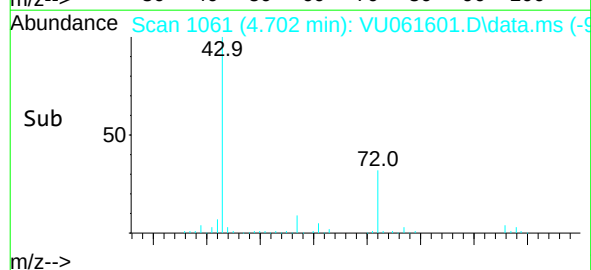
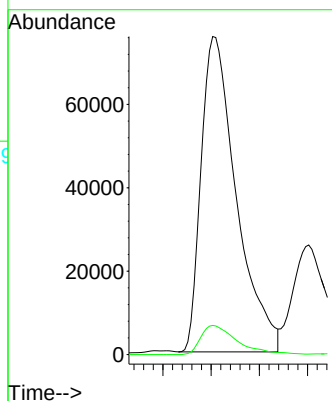
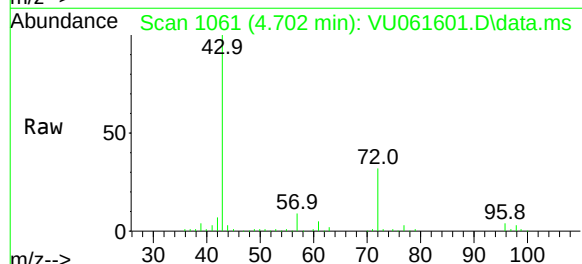
Manual Integrations
APPROVED

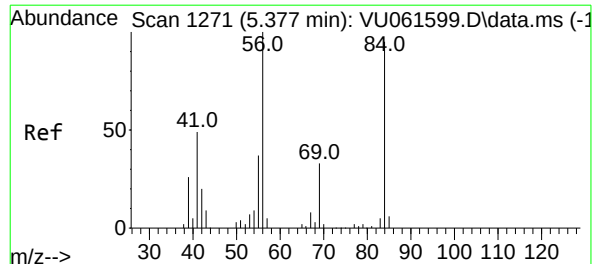
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#18
2-Butanone
Concen: 53.279 ug/l
RT: 4.702 min Scan# 1061
Delta R.T. -0.000 min
Lab File: VU061601.D
Acq: 12 Nov 2024 12:20

Tgt Ion: 43 Resp: 192372
Ion Ratio Lower Upper
43 100
57 9.2 0.0 20.0





#19

Cyclohexane

Concen: 10.222 ug/l m

RT: 5.380 min Scan# 12

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 56 Resp: 193780

Ion Ratio Lower Upper

56 100

69 31.4 26.3 39.5

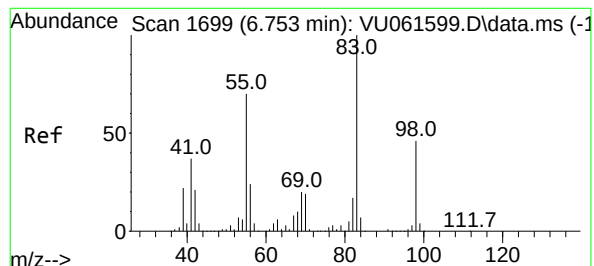
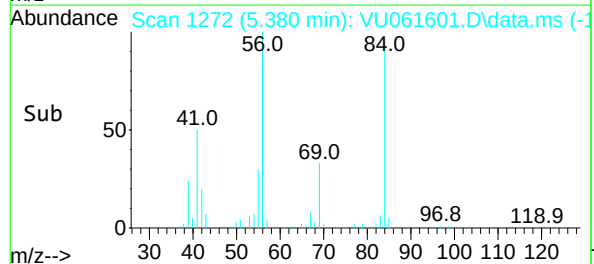
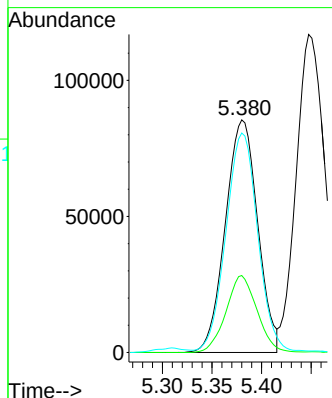
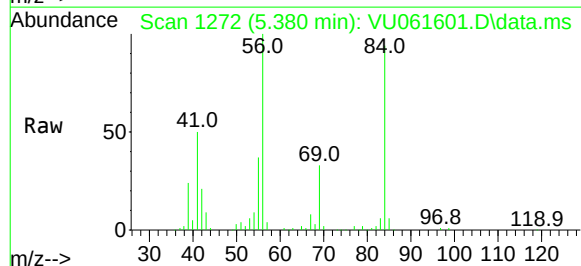
84 91.3 73.4 110.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#20

Methylcyclohexane

Concen: 11.005 ug/l

RT: 6.756 min Scan# 1700

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

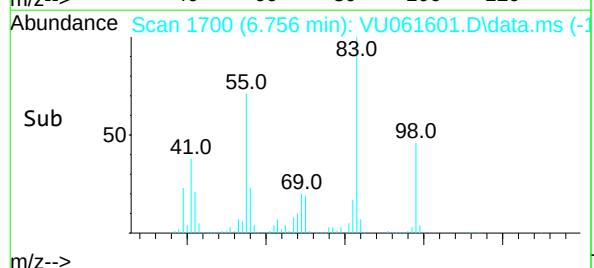
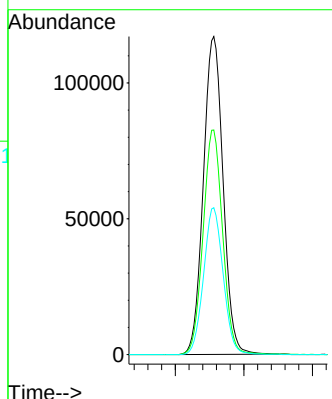
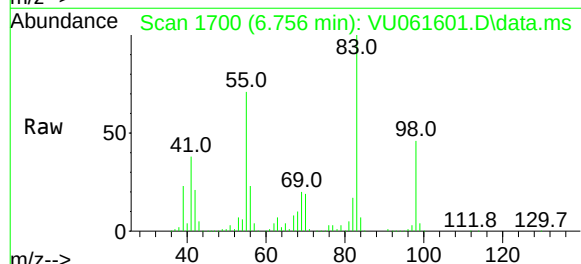
Tgt Ion: 83 Resp: 233944

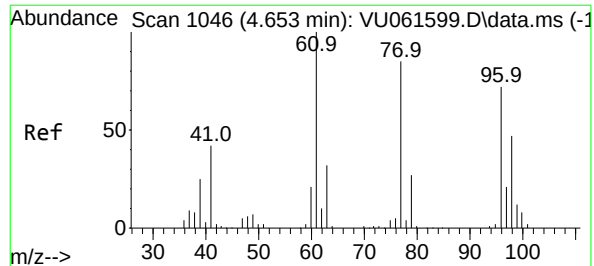
Ion Ratio Lower Upper

83 100

55 69.7 55.5 83.3

98 45.7 36.8 55.2





#21

2,2-Dichloropropane

Concen: 10.346 ug/l

RT: 4.653 min Scan# 1046

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 77 Resp: 194427

Ion Ratio Lower Upper

77 100

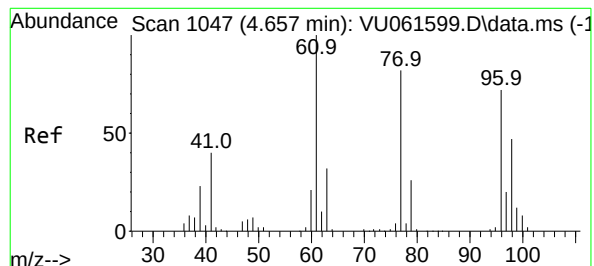
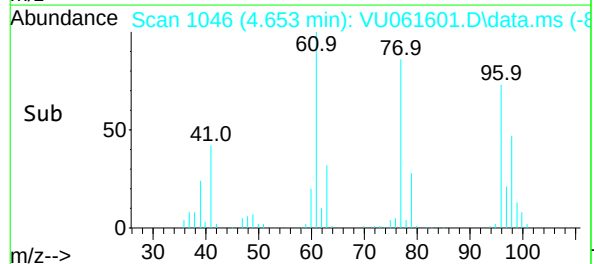
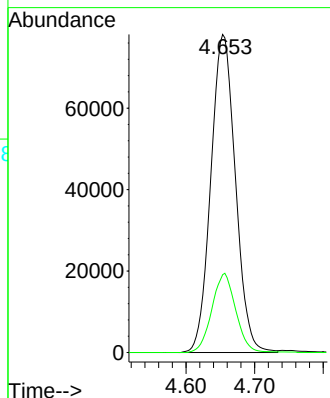
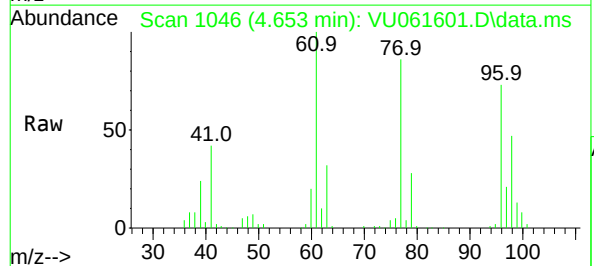
97 24.2 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#22

cis-1,2-Dichloroethene

Concen: 11.016 ug/l

RT: 4.657 min Scan# 1047

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

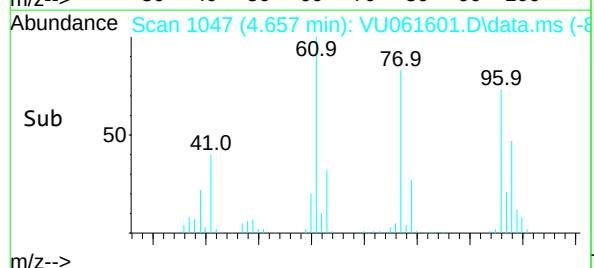
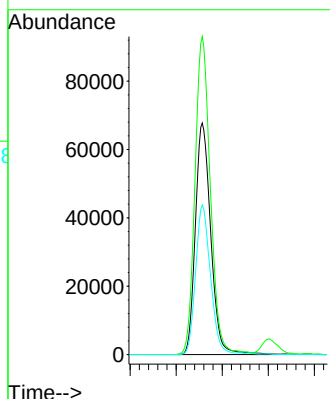
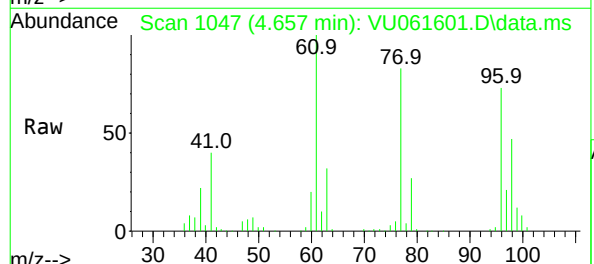
Tgt Ion: 96 Resp: 157452

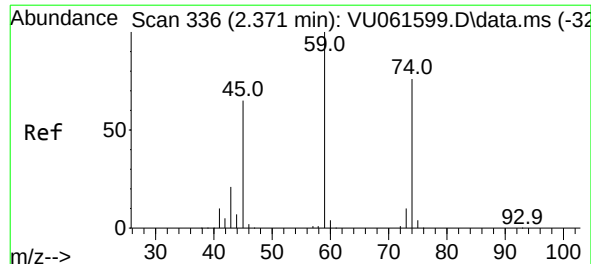
Ion Ratio Lower Upper

96 100

61 137.1 0.0 349.5

98 62.2 32.5 97.5





#23

Diethyl Ether

Concen: 9.301 ug/l

RT: 2.370 min Scan# 336

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

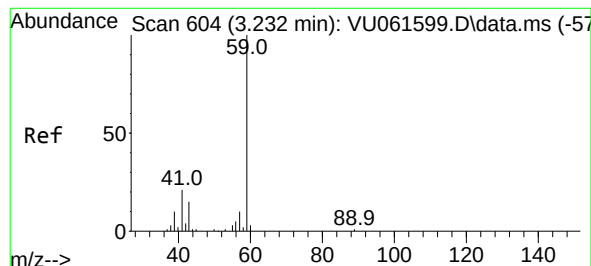
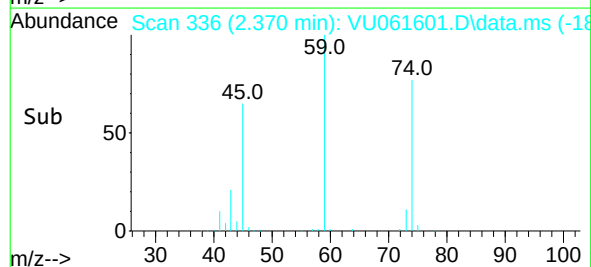
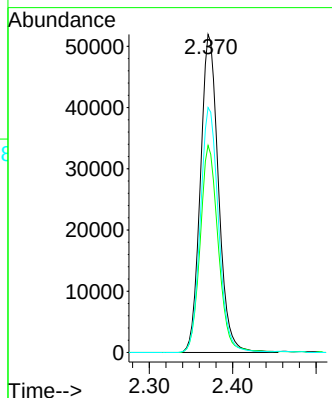
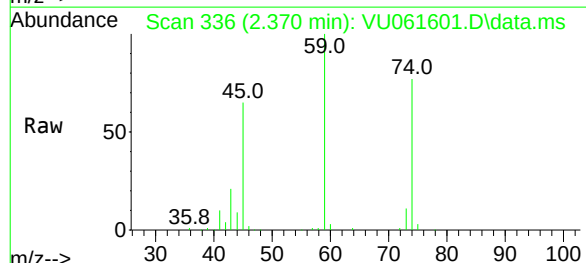
ClientSampleId :

ICVVU111224

Tgt Ion:	59	Resp:	78194
Ion	Ratio	Lower	Upper
59	100		
45	65.2	53.8	80.6
74	77.4	62.1	93.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#24

tert-Butyl Alcohol

Concen: 47.132 ug/l m

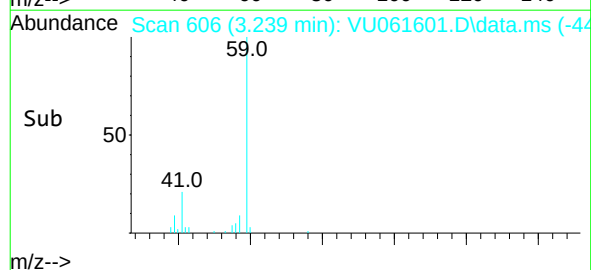
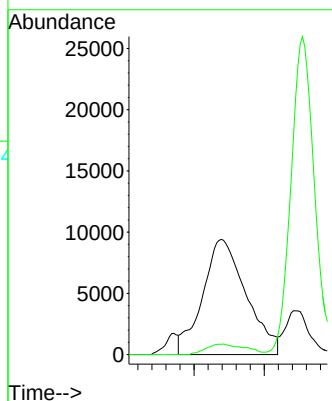
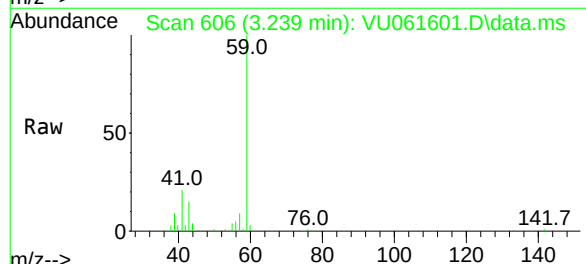
RT: 3.239 min Scan# 606

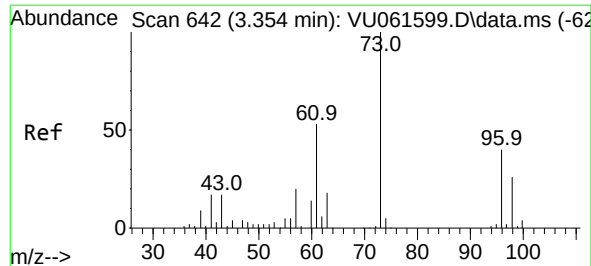
Delta R.T. 0.006 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion:	59	Resp:	40409
Ion	Ratio	Lower	Upper
59	100		
57	8.3	7.9	11.9





#25

Methyl tert-Butyl Ether

Concen: 10.241 ug/l

RT: 3.354 min Scan# 64

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 73 Resp: 283154

Ion Ratio Lower Upper

73 100

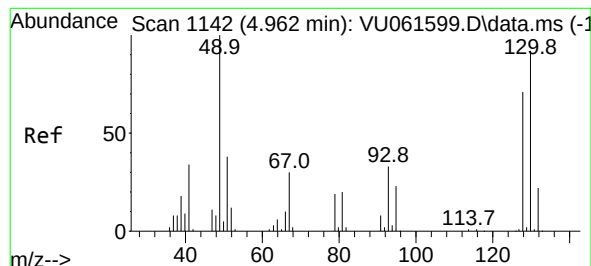
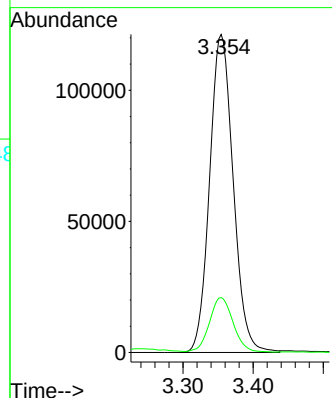
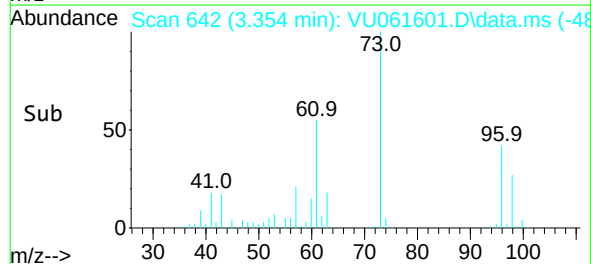
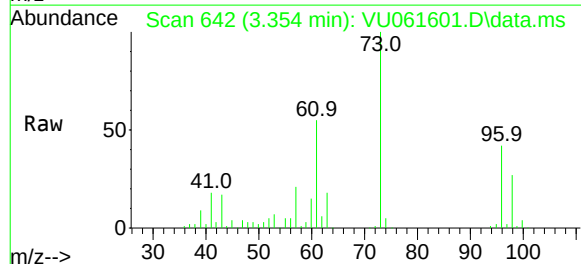
43 17.2 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#26

Bromochloromethane

Concen: 10.561 ug/l

RT: 4.965 min Scan# 1143

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

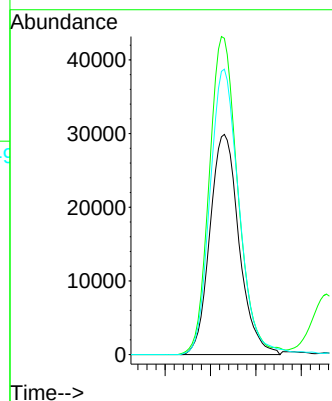
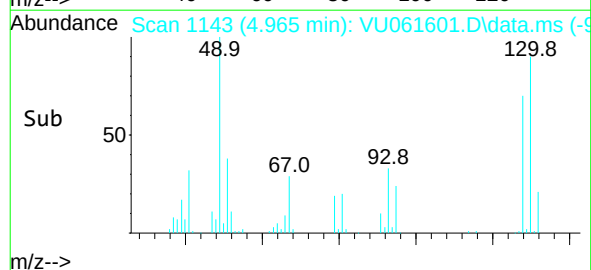
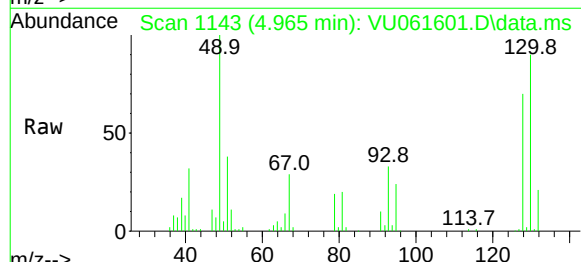
Tgt Ion:128 Resp: 66506

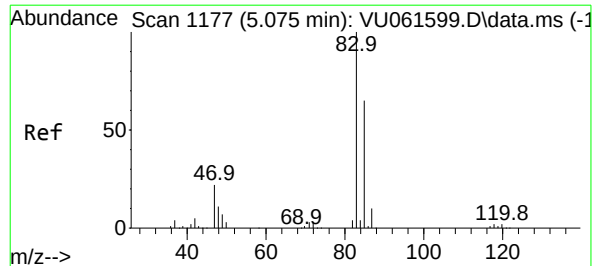
Ion Ratio Lower Upper

128 100

49 142.6 0.0 288.8

130 129.8 103.6 155.4





#27

Chloroform

Concen: 10.004 ug/l

RT: 5.078 min Scan# 1177

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVU111224

Tgt Ion: 83 Resp: 247923

Ion Ratio Lower Upper

83 100

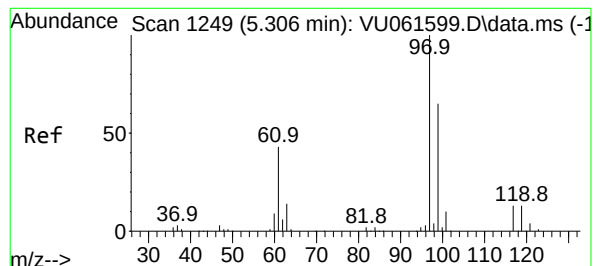
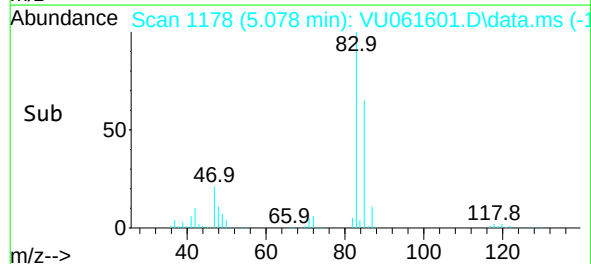
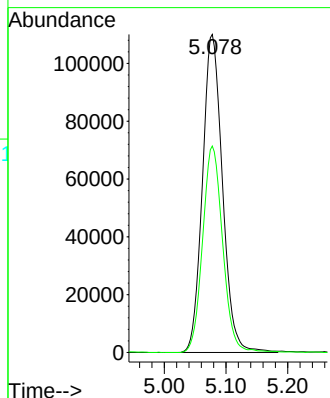
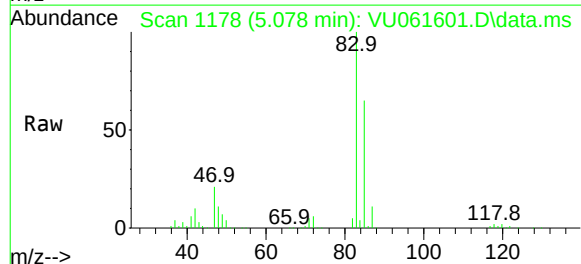
85 64.9 0.0 130.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#28

1,1,1-Trichloroethane

Concen: 10.364 ug/l

RT: 5.306 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

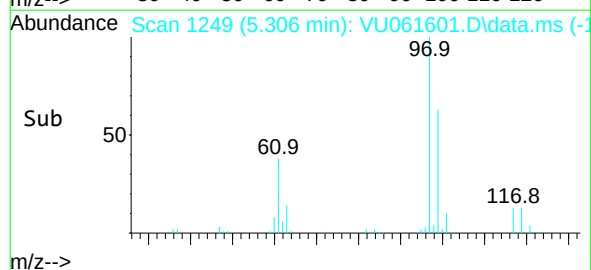
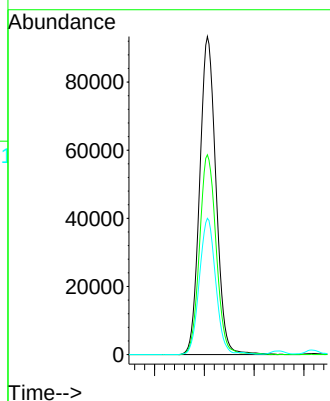
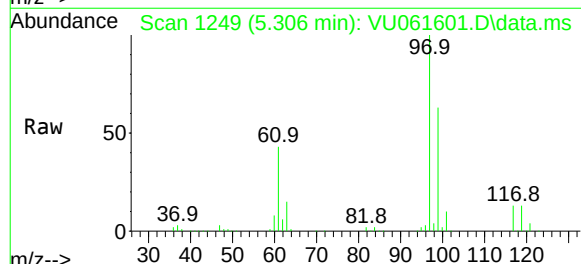
Tgt Ion: 97 Resp: 212205

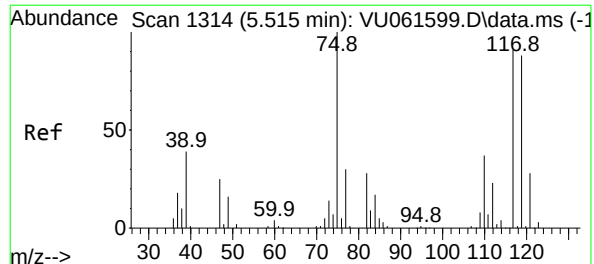
Ion Ratio Lower Upper

97 100

99 64.1 32.1 96.5

61 42.7 21.7 65.1





#29

1,1-Dichloropropene

Concen: 9.571 ug/l

RT: 5.518 min Scan# 1315

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 75 Resp: 176069

Ion Ratio Lower Upper

75 100

110 35.7 17.9 53.8

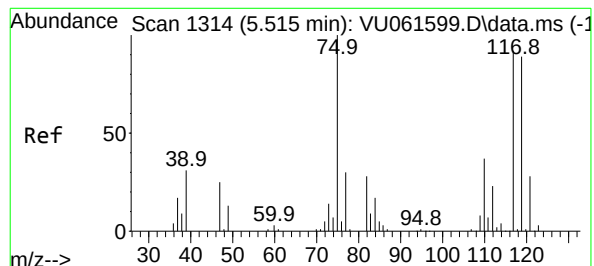
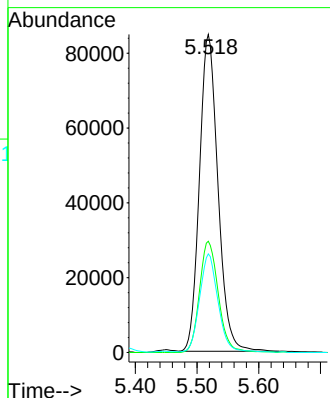
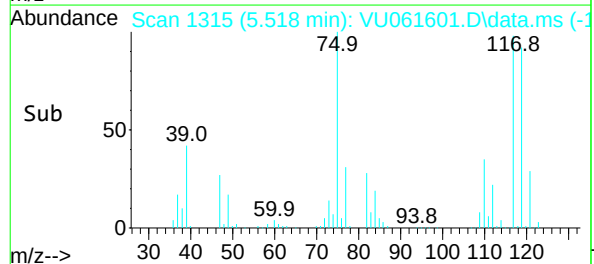
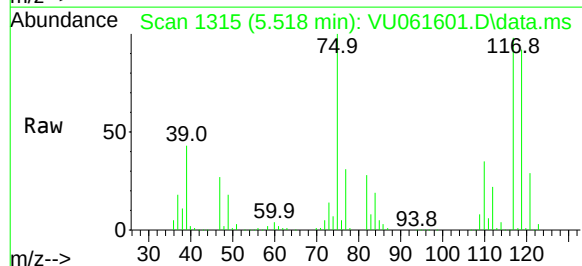
77 30.3 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 10.487 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

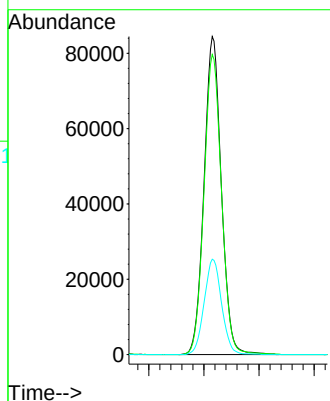
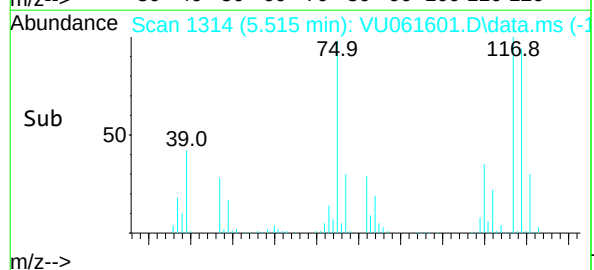
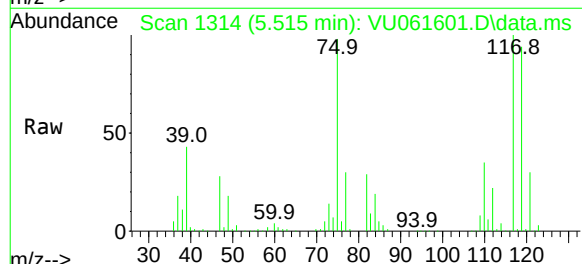
Tgt Ion:117 Resp: 184055

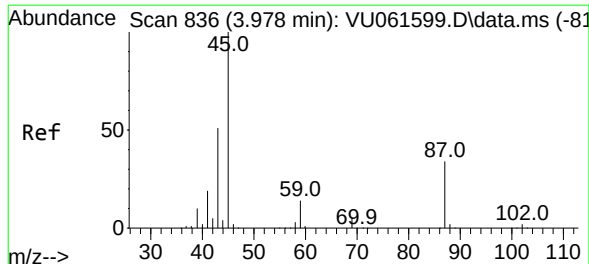
Ion Ratio Lower Upper

117 100

119 94.3 77.4 116.0

121 30.0 24.5 36.7





#31

Isopropyl Ether

Concen: 10.759 ug/l

RT: 3.981 min Scan# 836

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 45 Resp: 334526

Ion Ratio Lower Upper

45 100

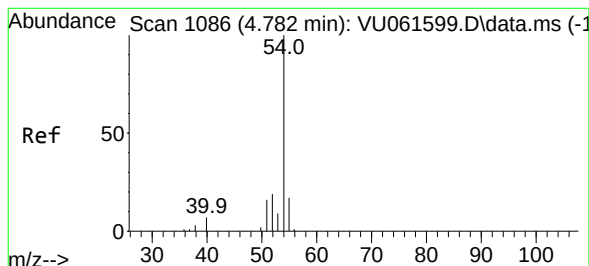
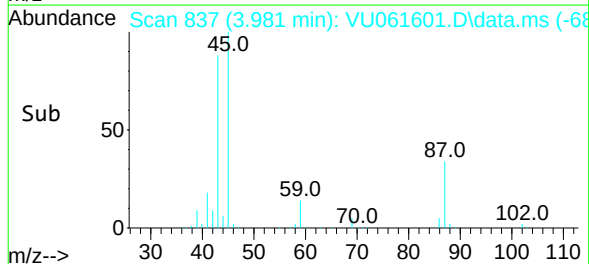
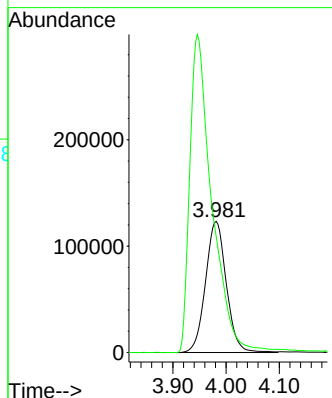
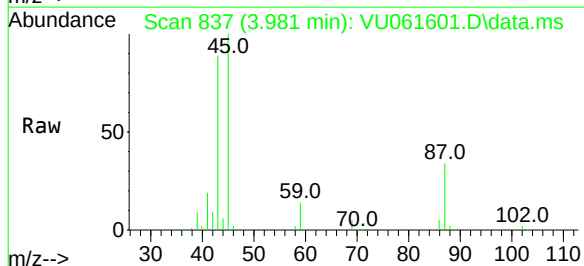
43 259.6 25.8 77.3#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#34

Propionitrile

Concen: 104.526 ug/l

RT: 4.782 min Scan# 1086

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion: 54 Resp: 90623

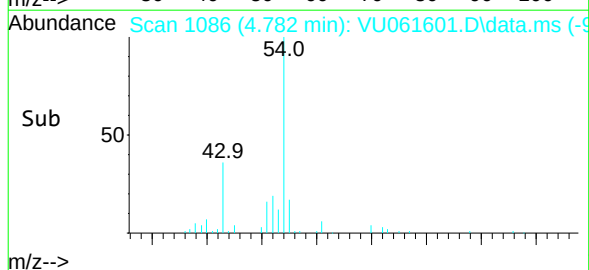
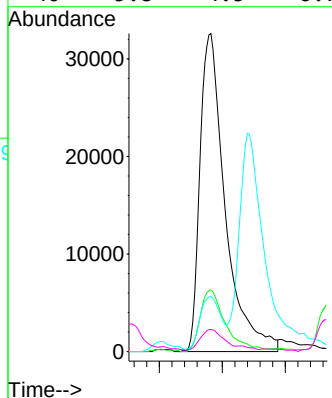
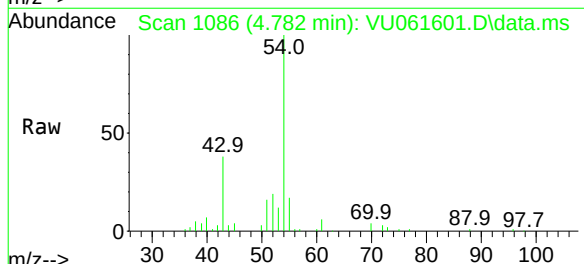
Ion Ratio Lower Upper

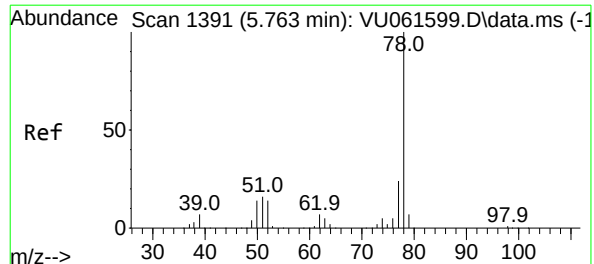
54 100

52 19.4 15.8 23.8

55 14.3 10.7 16.1

40 5.8 4.5 6.7





#35

Benzene

Concen: 10.120 ug/l

RT: 5.766 min Scan# 1391

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 78 Resp: 554859

Ion Ratio Lower Upper

78 100

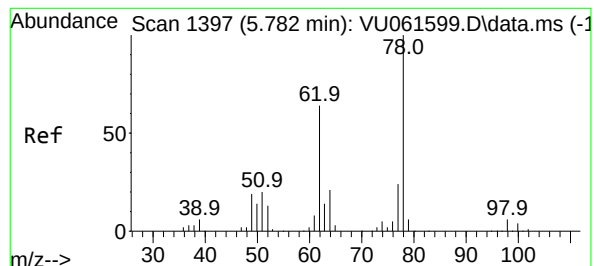
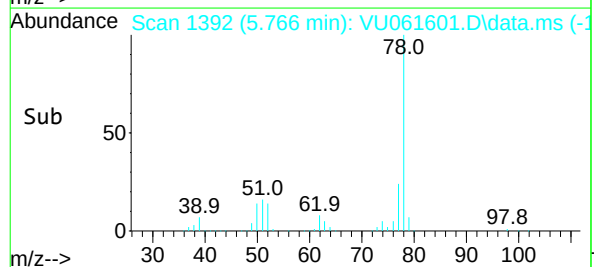
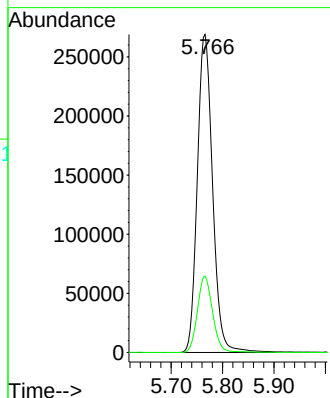
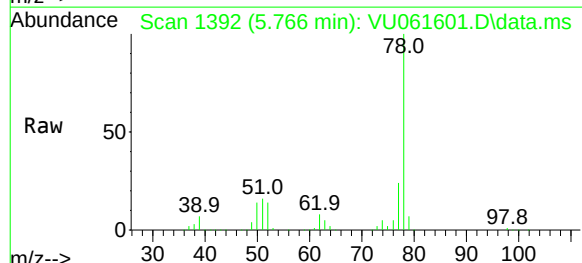
77 24.0 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#36

1,2-Dichloroethane

Concen: 9.303 ug/l

RT: 5.785 min Scan# 1398

Delta R.T. 0.003 min

Lab File: VU061601.D

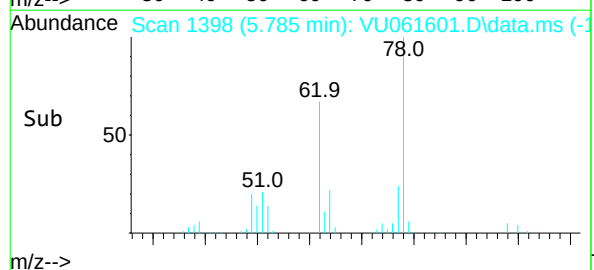
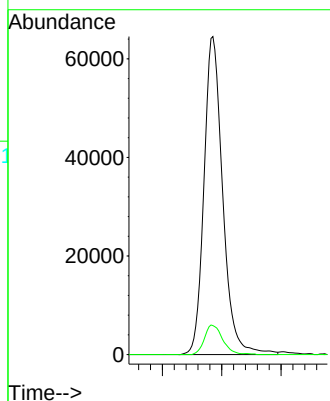
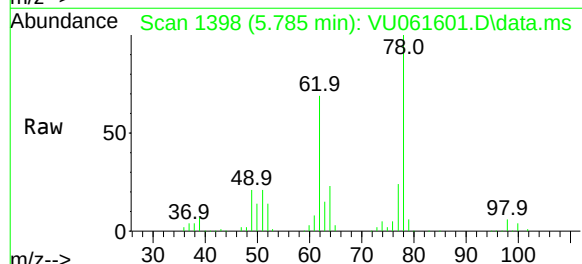
Acq: 12 Nov 2024 12:20

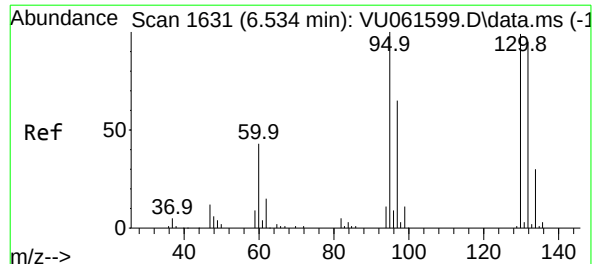
Tgt Ion: 62 Resp: 141737

Ion Ratio Lower Upper

62 100

98 9.0 7.4 11.0





#37

Trichloroethene

Concen: 9.703 ug/l

RT: 6.534 min Scan# 16

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion:130 Resp: 140872

Ion Ratio Lower Upper

130 100

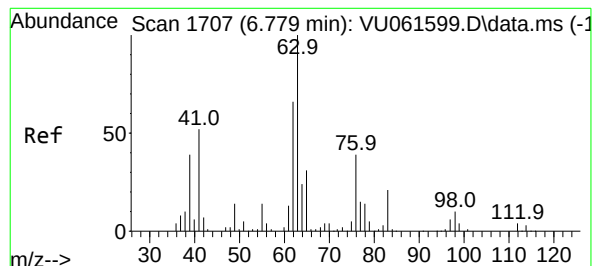
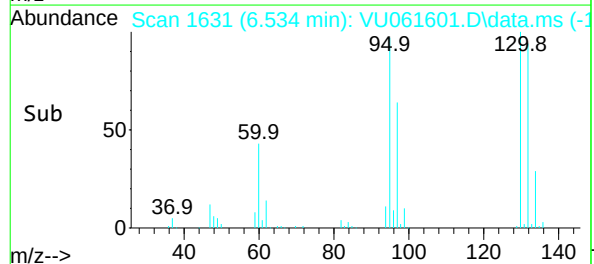
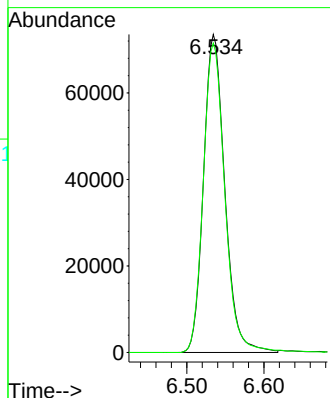
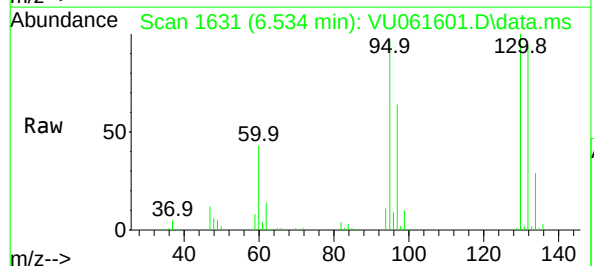
95 97.3 80.6 120.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#38

1,2-Dichloropropane

Concen: 9.495 ug/l

RT: 6.782 min Scan# 1708

Delta R.T. 0.003 min

Lab File: VU061601.D

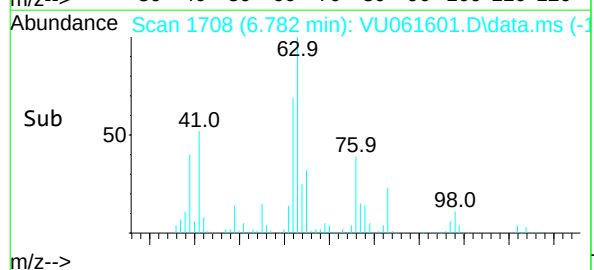
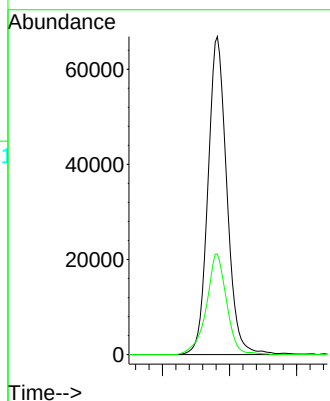
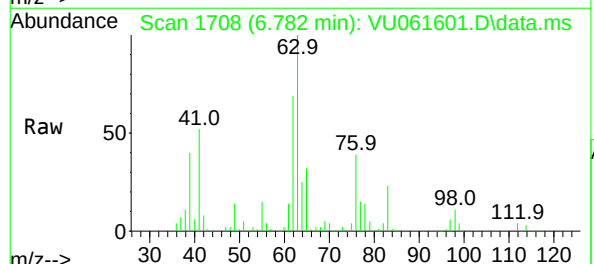
Acq: 12 Nov 2024 12:20

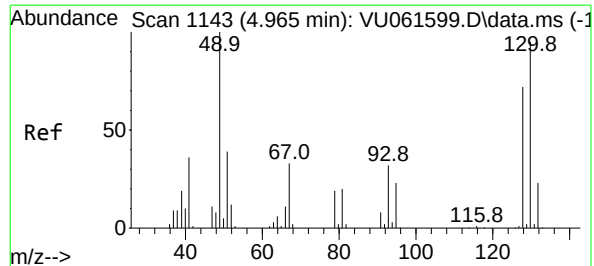
Tgt Ion: 63 Resp: 130710

Ion Ratio Lower Upper

63 100

65 31.7 25.3 37.9





#39

Methacrylonitrile

Concen: 10.453 ug/l

RT: 4.968 min Scan# 1143

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 41 Resp: 31433

Ion Ratio Lower Upper

41 100

67 101.1 77.6 116.4

39 57.1 43.9 65.9

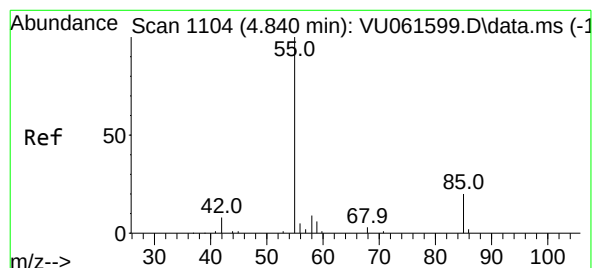
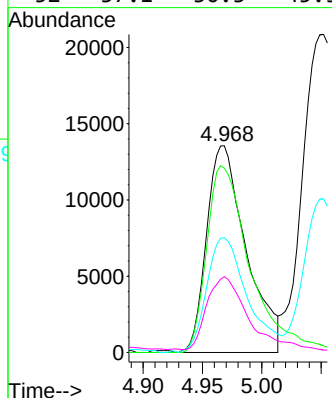
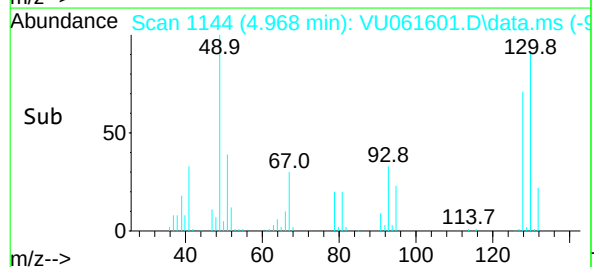
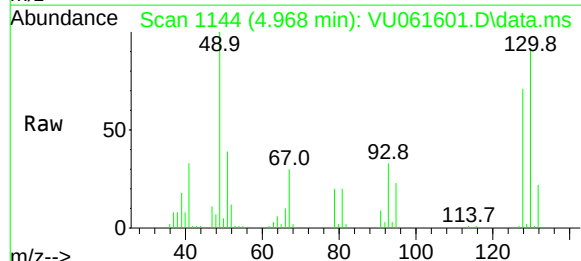
52 37.1 30.3 45.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#40

Methyl acrylate

Concen: 11.353 ug/l

RT: 4.840 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion: 55 Resp: 62959

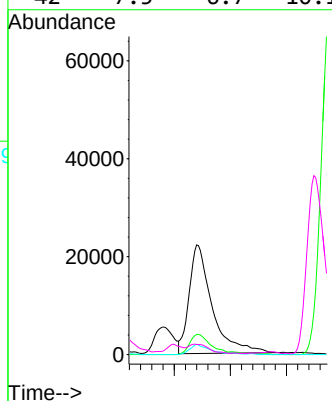
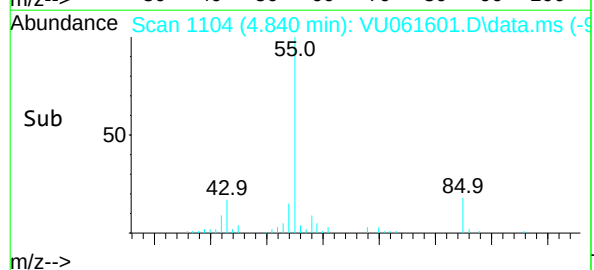
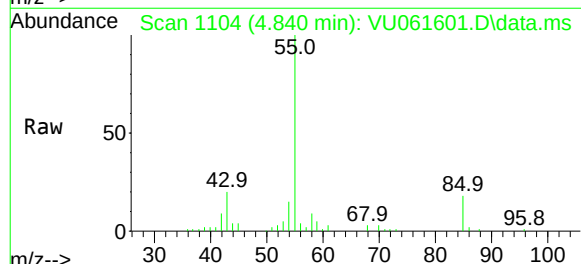
Ion Ratio Lower Upper

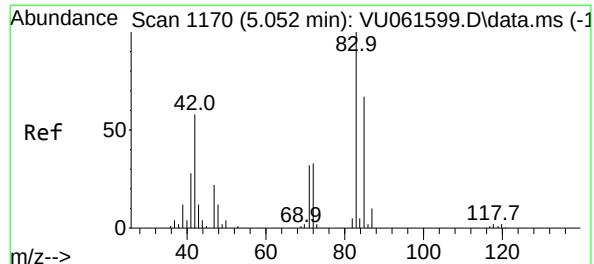
55 100

85 17.0 16.5 24.7

58 7.9 7.6 11.4

42 7.5 6.7 10.1





#41

Tetrahydrofuran

Concen: 50.589 ug/l

RT: 5.049 min Scan# 1170

Delta R.T. -0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 42 Resp: 86292

Ion Ratio Lower Upper

42 100

72 58.2 49.1 73.7

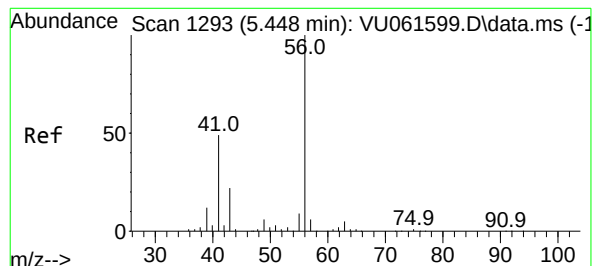
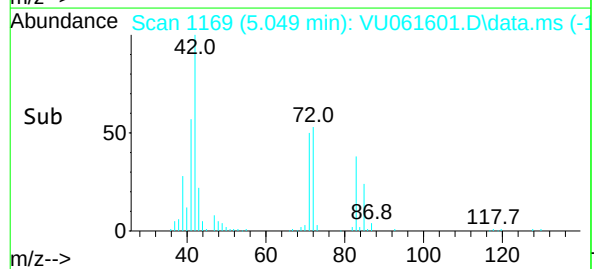
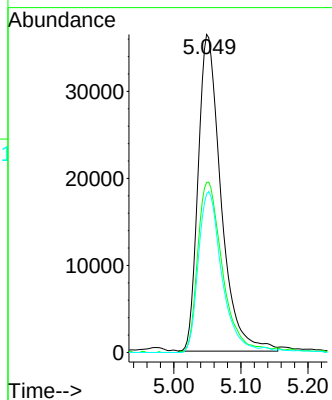
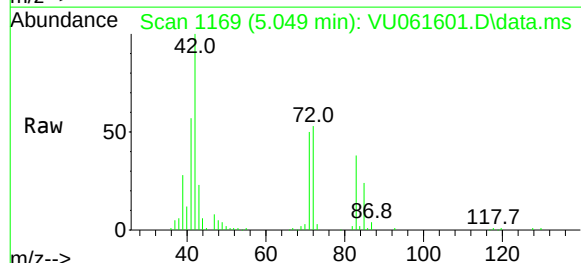
71 51.8 40.2 60.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#42

1-Chlorobutane

Concen: 10.509 ug/l

RT: 5.448 min Scan# 1293

Delta R.T. -0.000 min

Lab File: VU061601.D

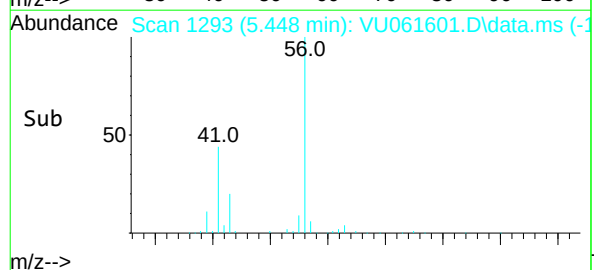
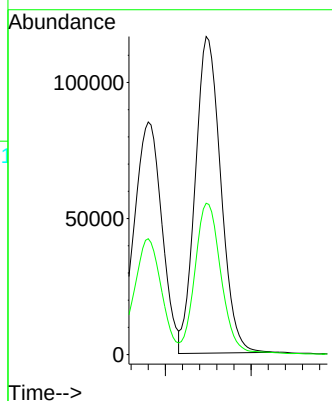
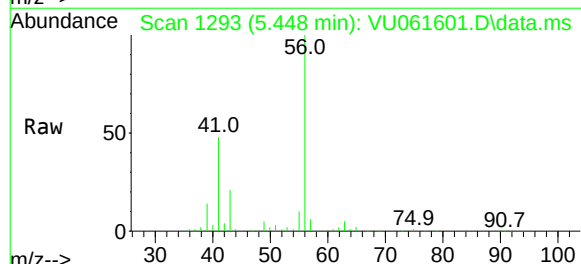
Acq: 12 Nov 2024 12:20

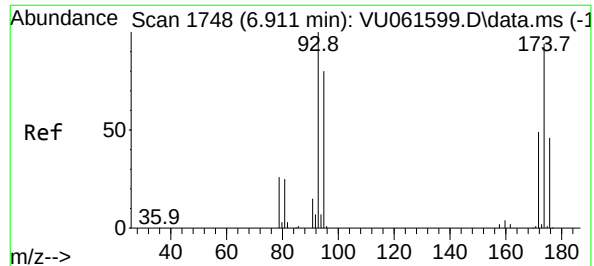
Tgt Ion: 56 Resp: 241252

Ion Ratio Lower Upper

56 100

41 48.5 23.4 70.2





#43

Dibromomethane

Concen: 9.976 ug/l

RT: 6.910 min Scan# 1748

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 93 Resp: 72729

Ion Ratio Lower Upper

93 100

95 82.9 65.2 97.8

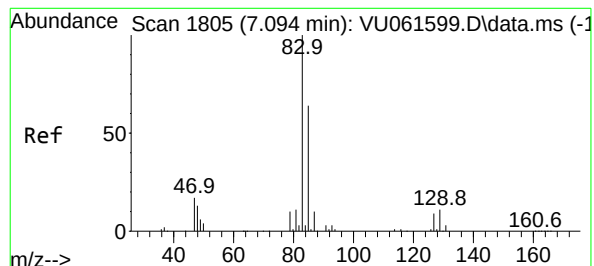
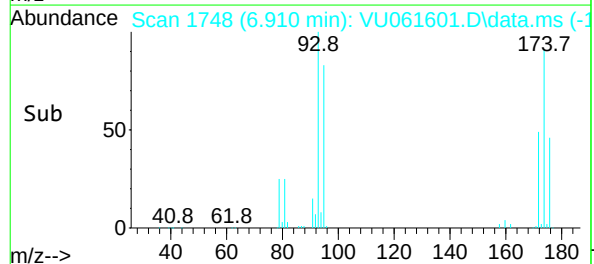
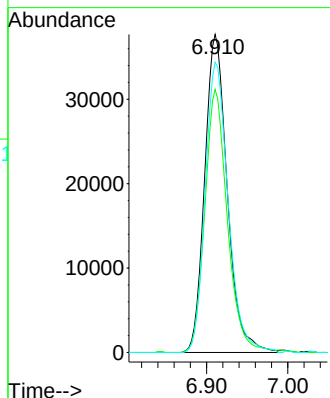
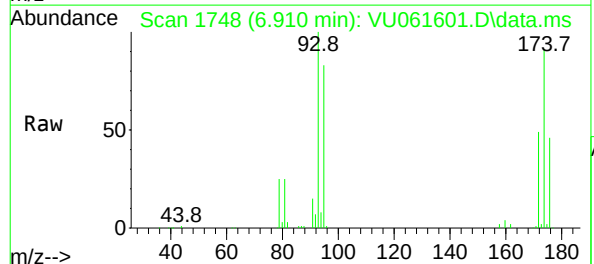
174 93.0 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

Concen: 10.848 ug/l

RT: 7.097 min Scan# 1806

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

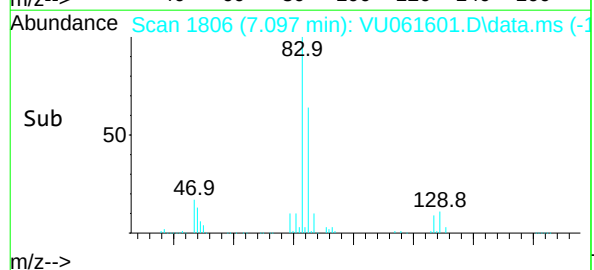
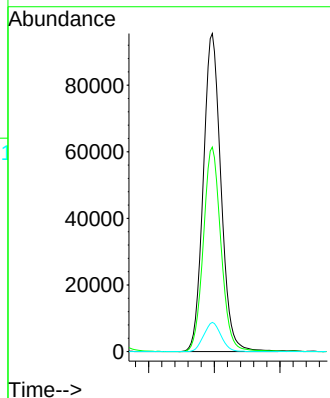
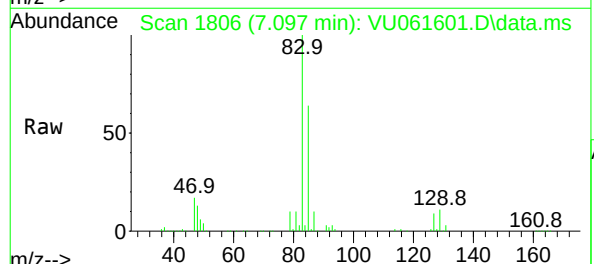
Tgt Ion: 83 Resp: 178609

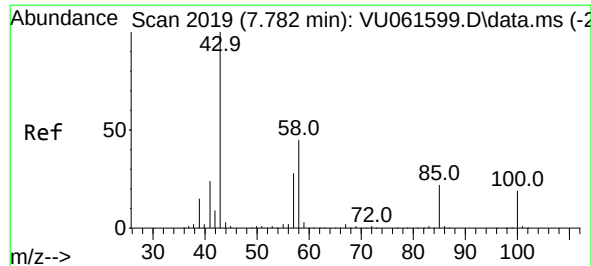
Ion Ratio Lower Upper

83 100

85 64.3 51.4 77.0

127 9.2 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 51.339 ug/l

RT: 7.782 min Scan# 2019

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion: 43 Resp: 348181

Ion Ratio Lower Upper

43 100

58 44.6 22.3 66.8

85 21.5 17.2 25.8

Instrument :

MSVOA_U

ClientSampleId :

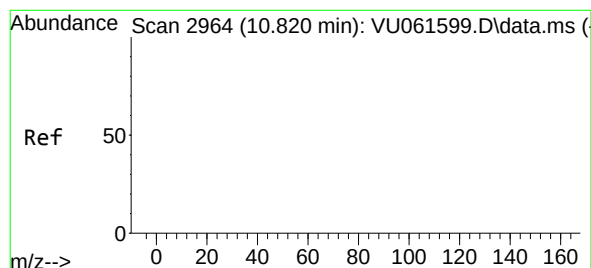
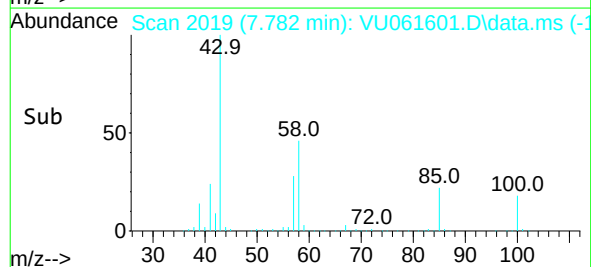
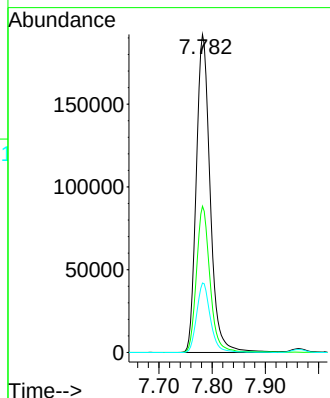
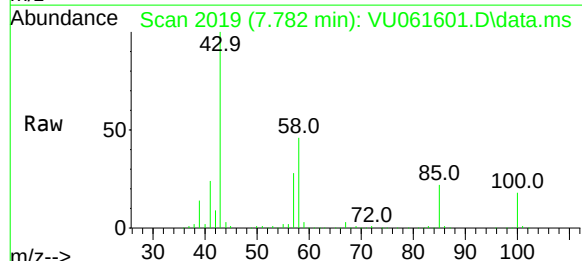
ICVVU111224

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 11.987 ug/l m

RT: 10.820 min Scan# 2964

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion: 75 Resp: 44492

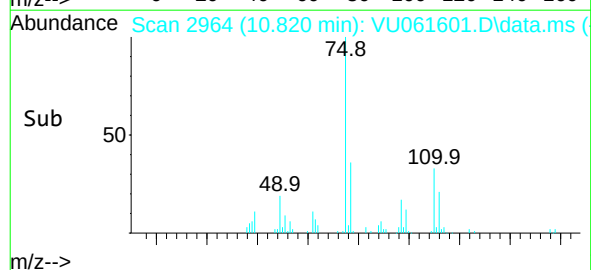
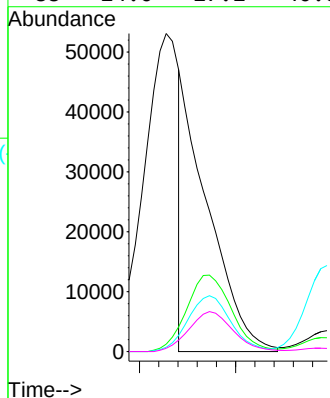
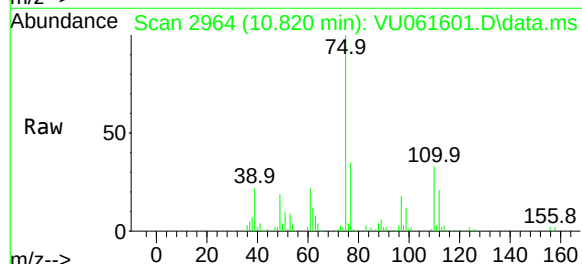
Ion Ratio Lower Upper

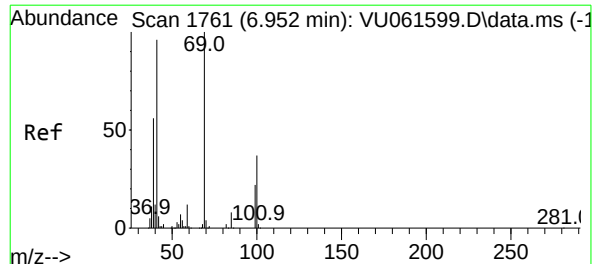
75 100

53 46.7 50.7 76.1#

89 32.7 35.2 52.8#

88 24.0 27.2 40.8#





#47

Methyl methacrylate

Concen: 10.527 ug/l

RT: 6.955 min Scan# 1761

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 69 Resp: 60918

Ion Ratio Lower Upper

69 100

41 92.5 0.0 193.6

39 54.2 46.6 70.0

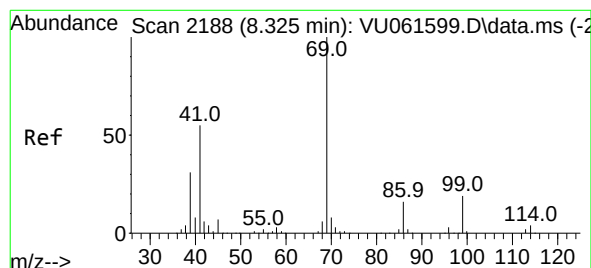
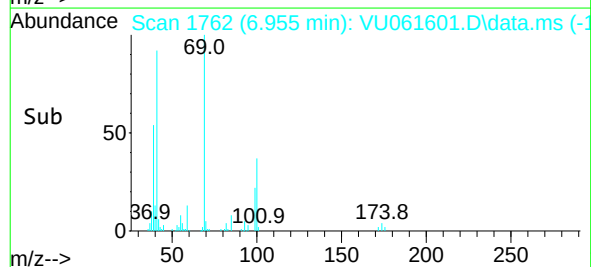
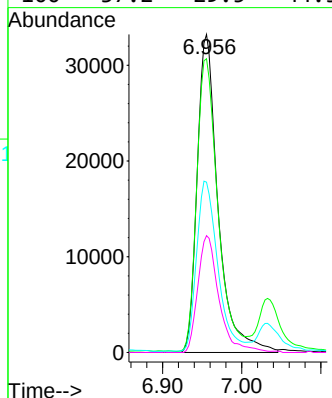
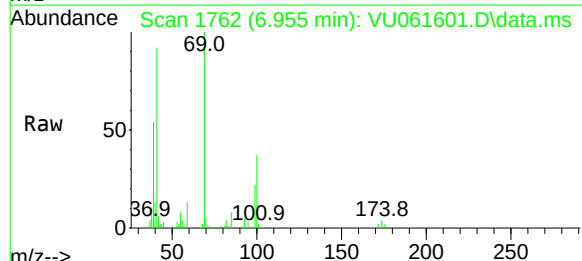
100 37.2 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#48

Ethyl methacrylate

Concen: 10.621 ug/l

RT: 8.325 min Scan# 2188

Delta R.T. -0.000 min

Lab File: VU061601.D

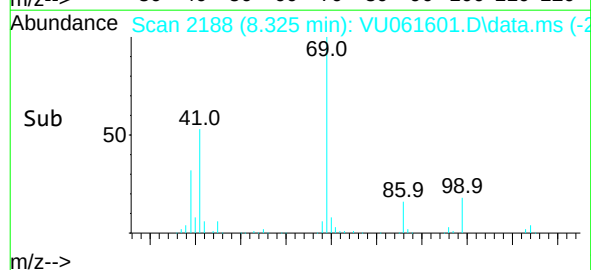
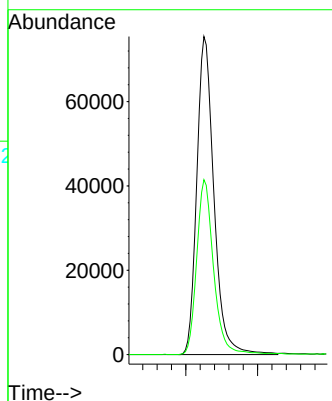
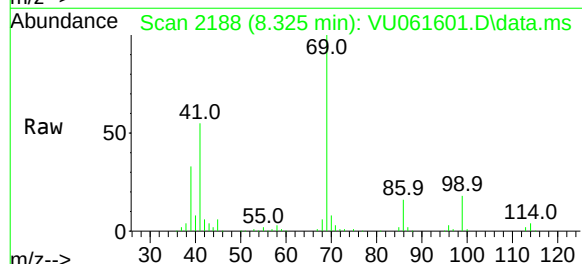
Acq: 12 Nov 2024 12:20

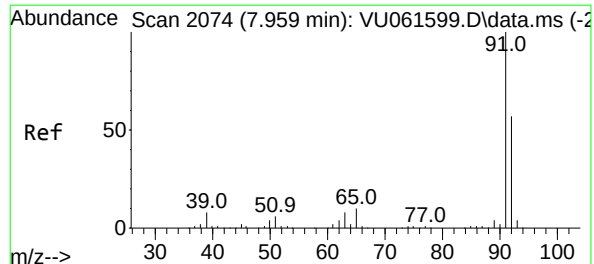
Tgt Ion: 69 Resp: 124939

Ion Ratio Lower Upper

69 100

41 54.4 27.3 81.9





#49

Toluene

Concen: 10.415 ug/l

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion: 92 Resp: 348704

Ion Ratio Lower Upper

92 100

91 177.8 139.6 209.4

Instrument :

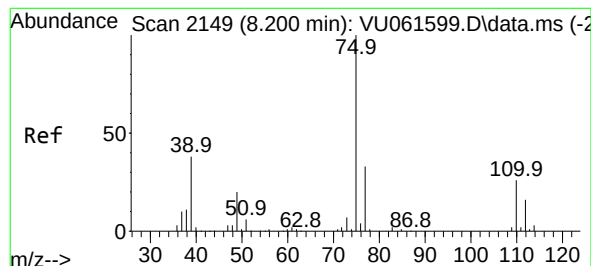
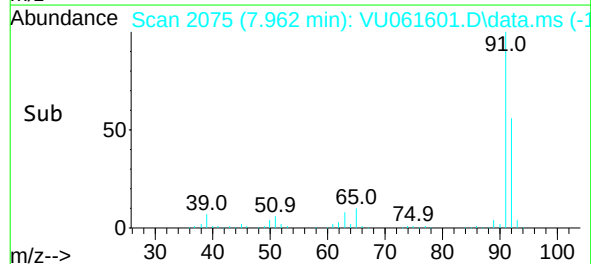
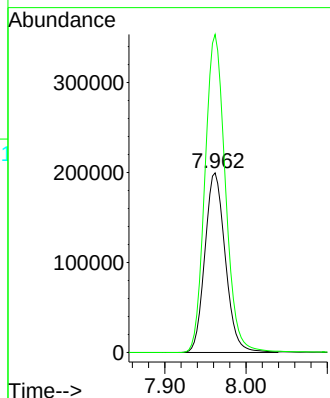
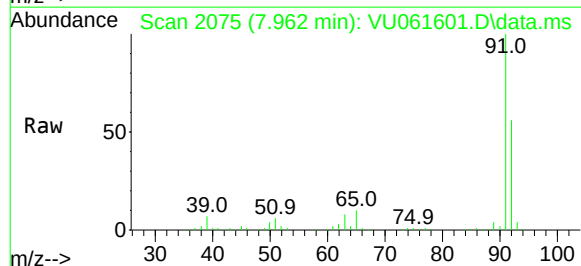
MSVOA_U

ClientSampleId :

ICVVU111224

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#50

t-1,3-Dichloropropene

Concen: 10.757 ug/l

RT: 8.203 min Scan# 2150

Delta R.T. 0.003 min

Lab File: VU061601.D

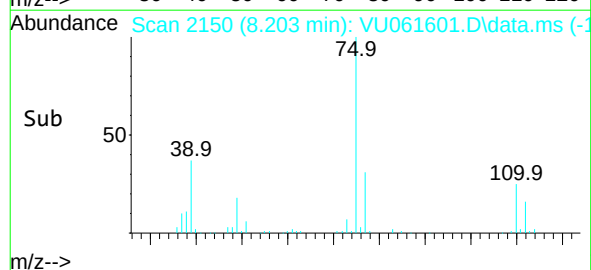
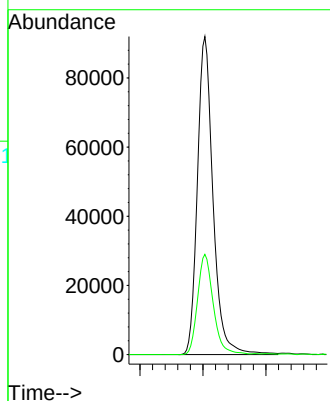
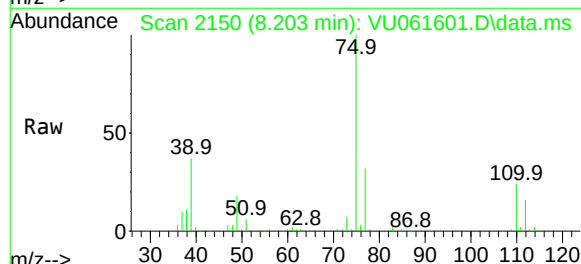
Acq: 12 Nov 2024 12:20

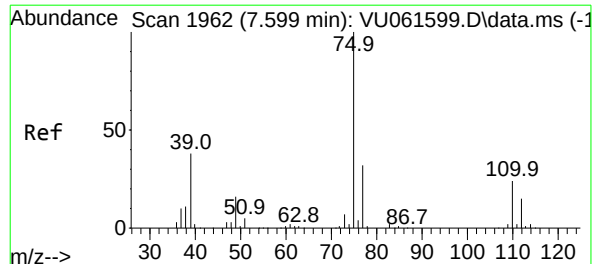
Tgt Ion: 75 Resp: 158469

Ion Ratio Lower Upper

75 100

77 31.5 26.0 39.0





#51

cis-1,3-Dichloropropene

Concen: 10.059 ug/l

RT: 7.599 min Scan# 1962

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

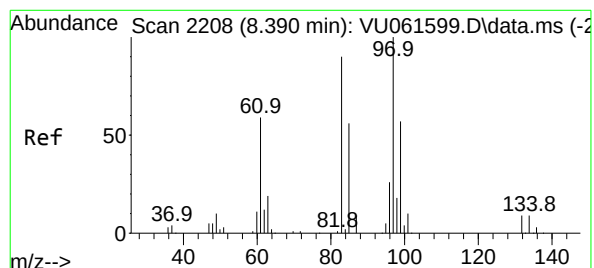
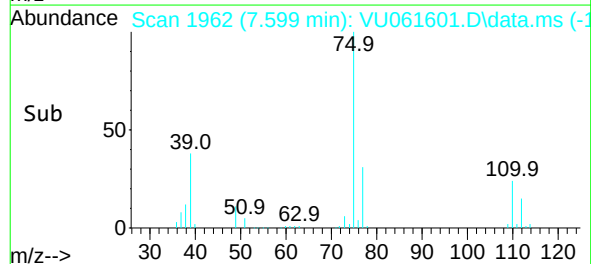
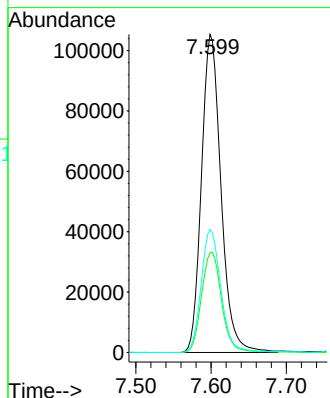
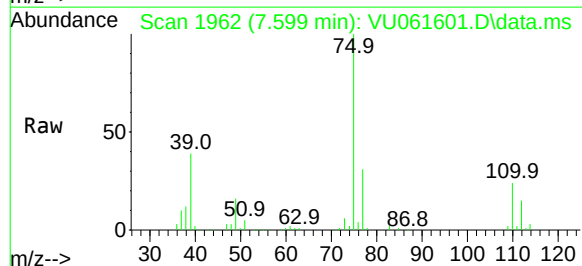
ClientSampleId :

ICVVU111224

Tgt Ion:	75	Resp:	190109
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.5	38.3
39	38.7	30.6	46.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#52

1,1,2-Trichloroethane

Concen: 9.596 ug/l

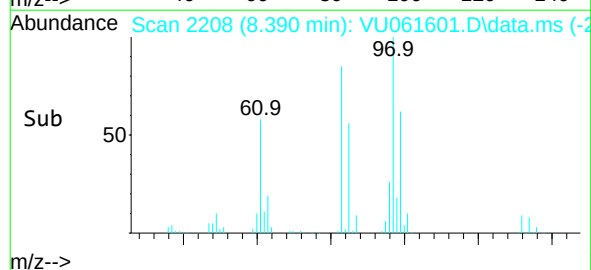
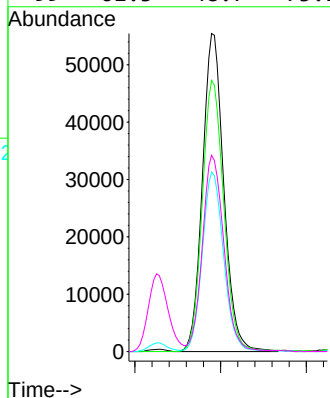
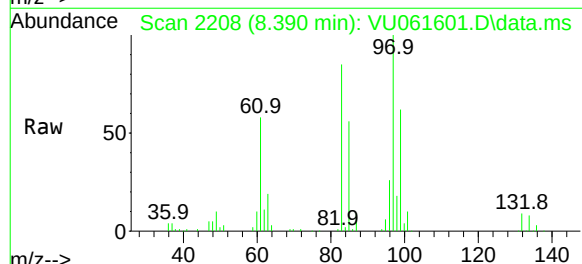
RT: 8.390 min Scan# 2208

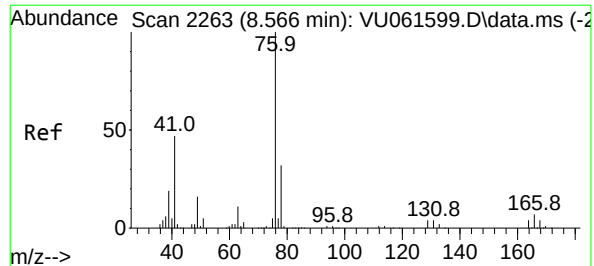
Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion:	97	Resp:	95906
Ion	Ratio	Lower	Upper
97	100		
83	85.3	71.7	107.5
85	56.2	45.2	67.8
99	61.3	48.7	73.1





#53

1,3-Dichloropropane

Concen: 9.514 ug/l

RT: 8.566 min Scan# 2263

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 76 Resp: 162271

Ion Ratio Lower Upper

76 100

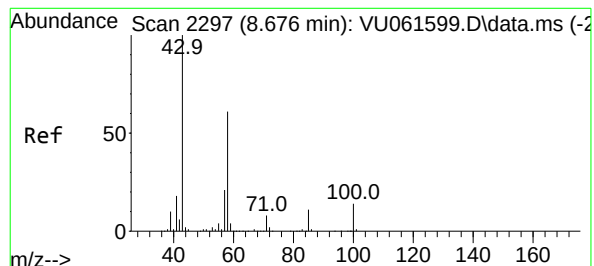
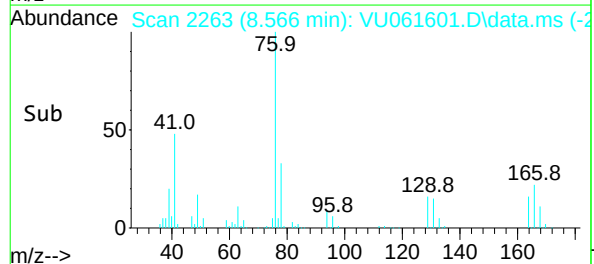
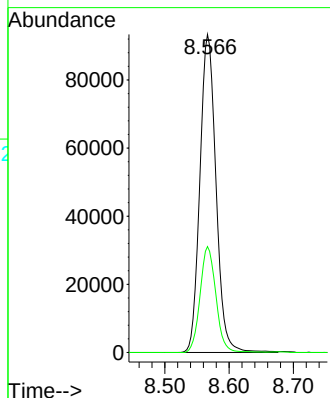
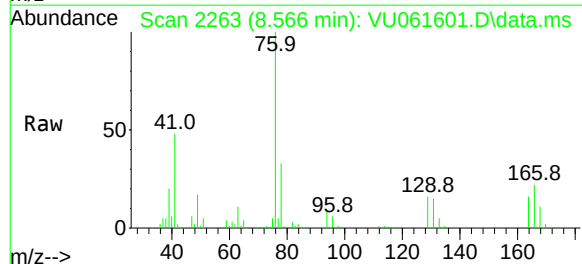
78 32.7 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#54

2-Hexanone

Concen: 54.993 ug/l

RT: 8.676 min Scan# 2297

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

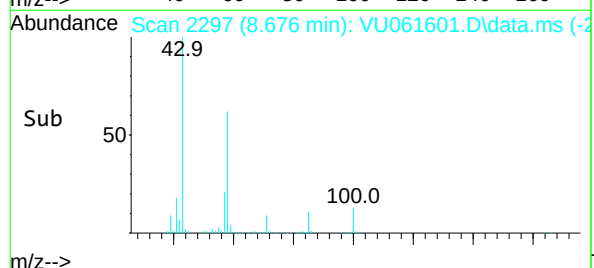
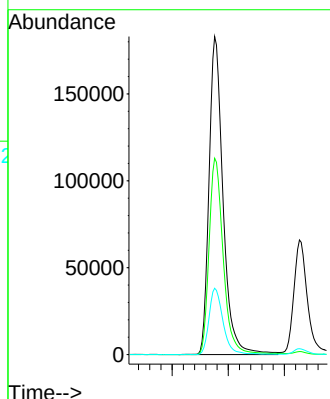
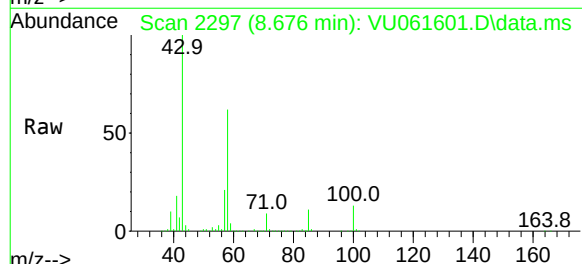
Tgt Ion: 43 Resp: 317773

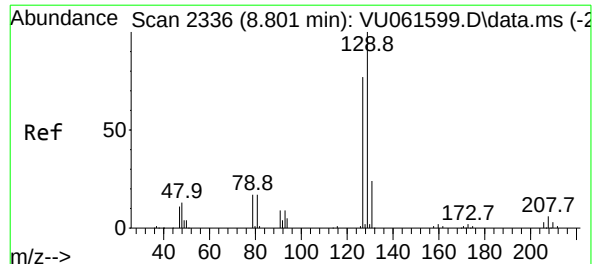
Ion Ratio Lower Upper

43 100

58 62.2 42.3 82.3

57 20.9 0.9 40.9





#55

Dibromochloromethane

Concen: 10.735 ug/l

RT: 8.801 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion:129 Resp: 116138

Ion Ratio Lower Upper

129 100

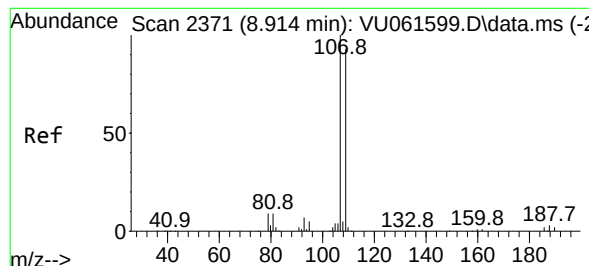
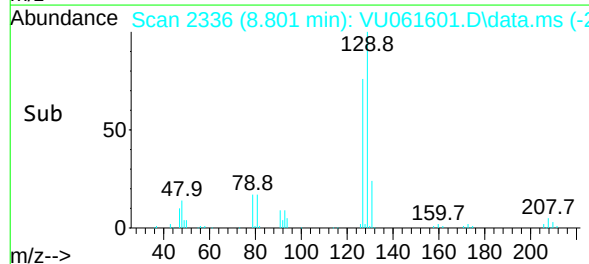
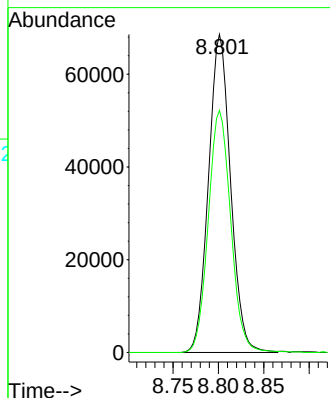
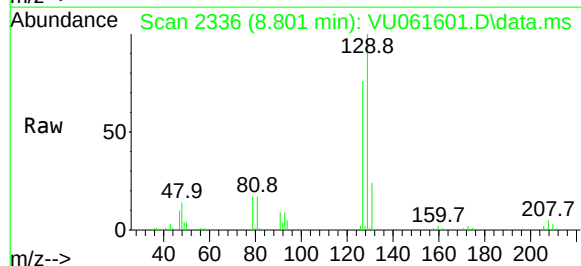
127 77.6 61.8 92.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#56

1,2-Dibromoethane

Concen: 9.719 ug/l

RT: 8.917 min Scan# 2372

Delta R.T. 0.003 min

Lab File: VU061601.D

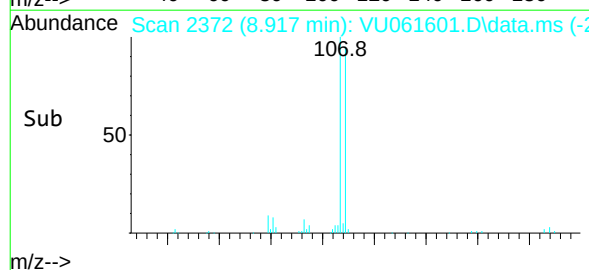
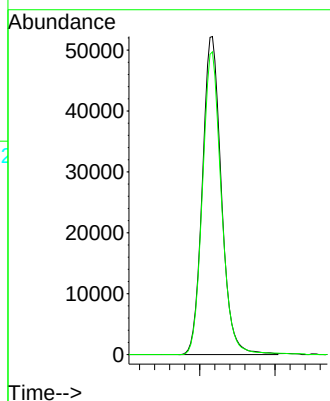
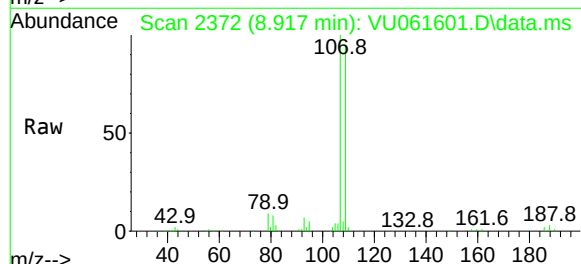
Acq: 12 Nov 2024 12:20

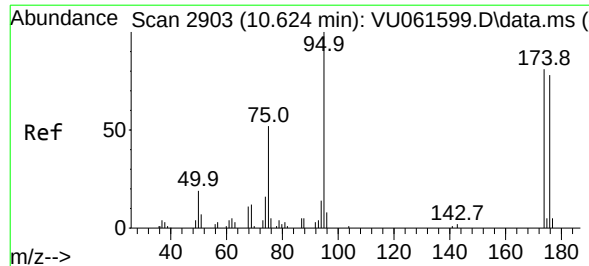
Tgt Ion:107 Resp: 91296

Ion Ratio Lower Upper

107 100

109 94.7 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 1.006 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 95 Resp: 17724

Ion Ratio Lower Upper

95 100

174 83.9 67.5 101.3

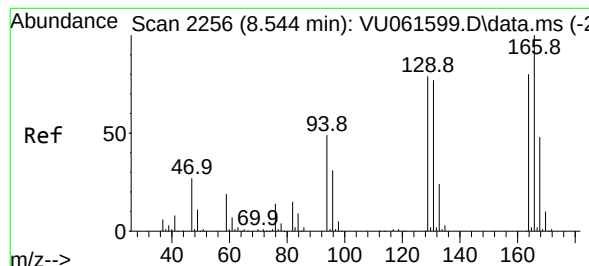
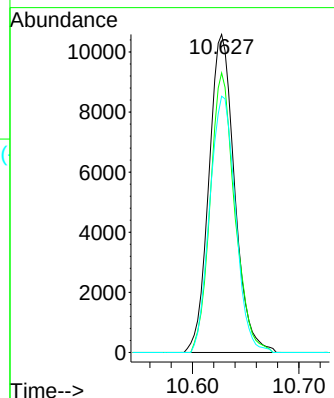
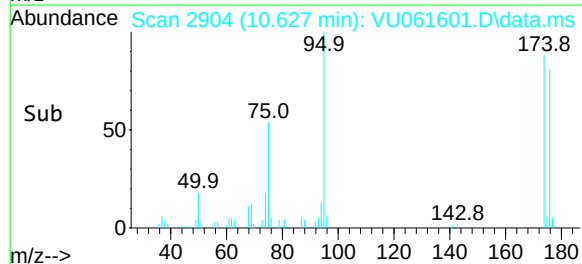
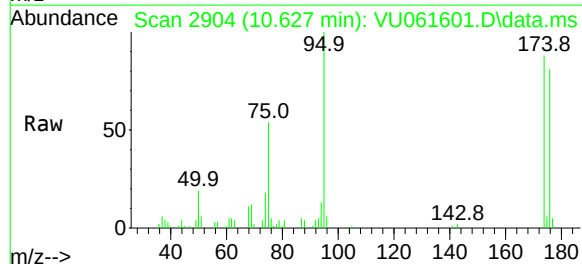
176 80.8 62.7 94.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#58

Tetrachloroethene

Concen: 10.153 ug/l

RT: 8.547 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion:164 Resp: 132596

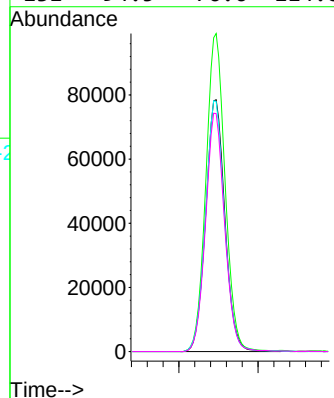
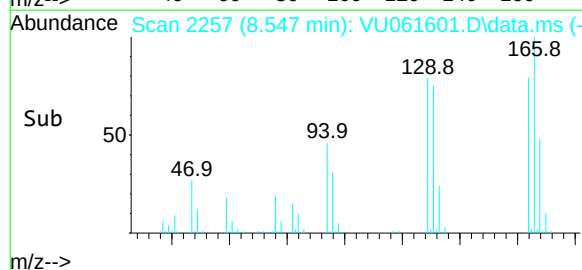
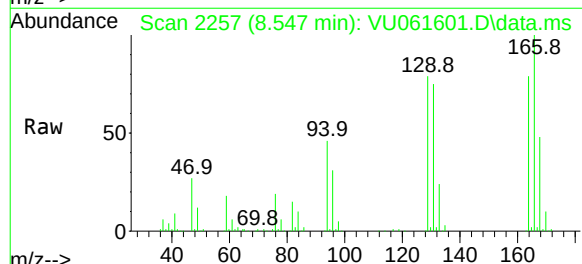
Ion Ratio Lower Upper

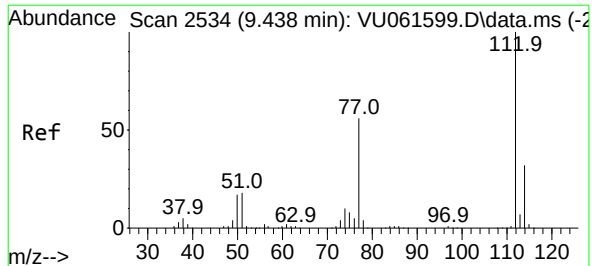
164 100

166 126.3 99.9 149.9

129 99.3 78.6 118.0

131 94.5 76.6 114.8





#59

Chlorobenzene

Concen: 10.432 ug/l

RT: 9.438 min Scan# 2534

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion:112 Resp: 385865

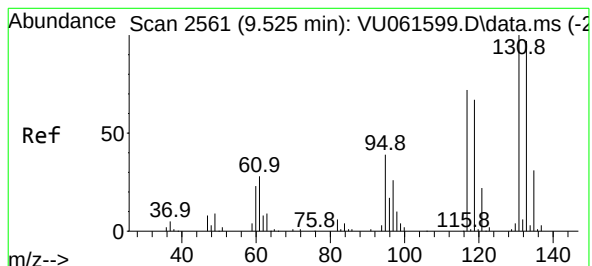
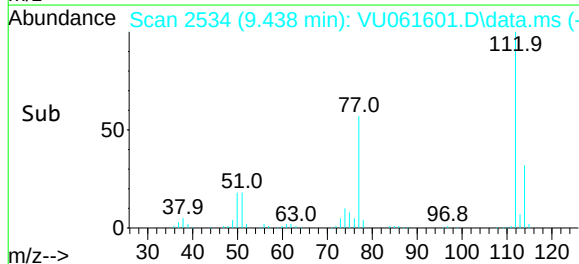
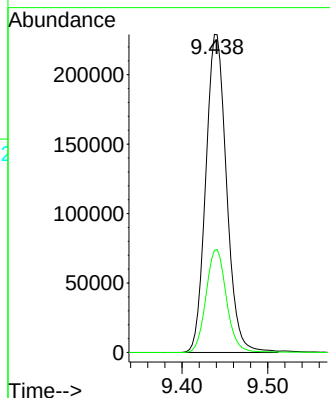
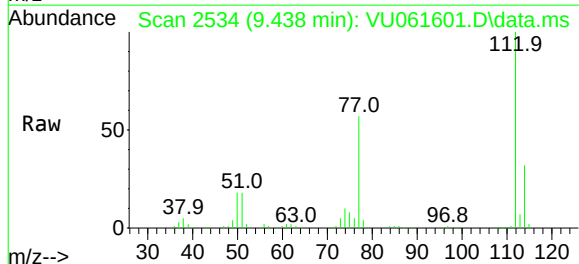
Ion Ratio Lower Upper

112 100

114 32.1 25.6 38.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#60

1,1,1,2-Tetrachloroethane

Concen: 9.999 ug/l

RT: 9.525 min Scan# 2561

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

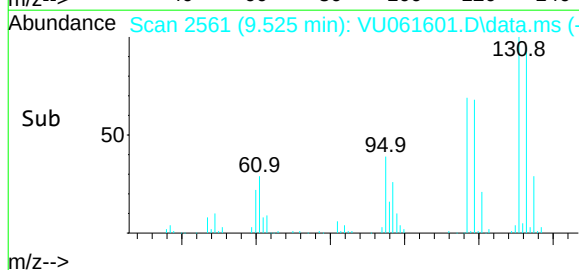
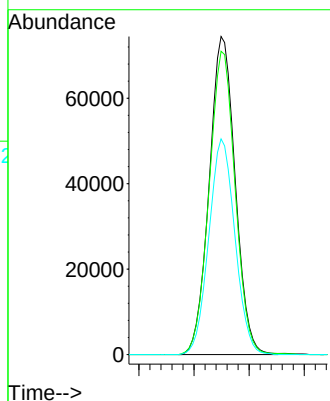
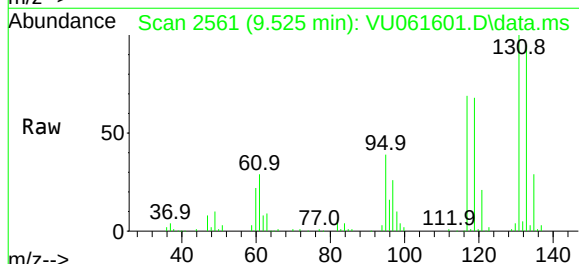
Tgt Ion:131 Resp: 122062

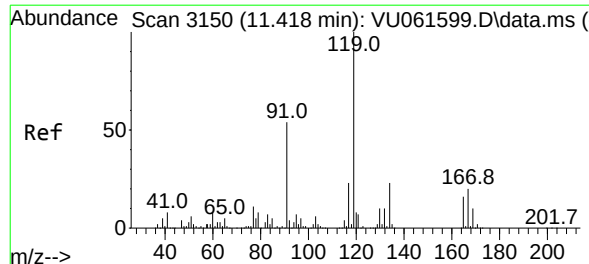
Ion Ratio Lower Upper

131 100

133 95.6 76.4 114.6

119 68.0 53.5 80.3





#61

Pentachloroethane

Concen: 11.265 ug/l

RT: 11.418 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion:117 Resp: 103475

Ion Ratio Lower Upper

117 100

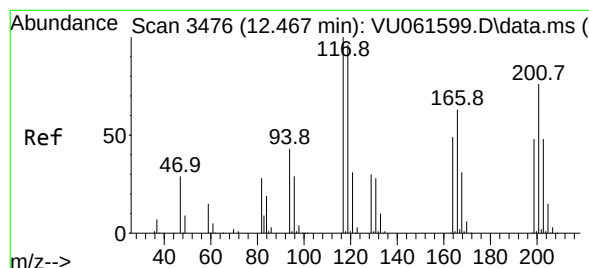
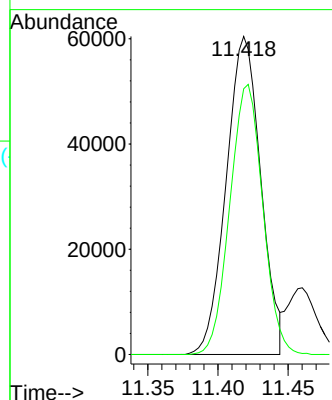
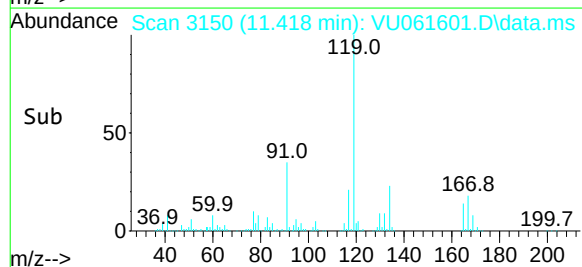
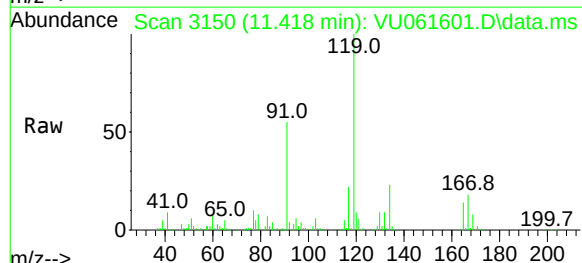
167 80.9 65.4 98.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 9.823 ug/l

RT: 12.467 min Scan# 3476

Delta R.T. -0.000 min

Lab File: VU061601.D

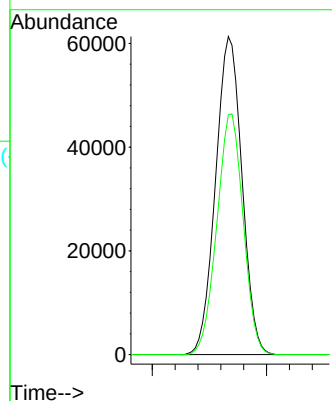
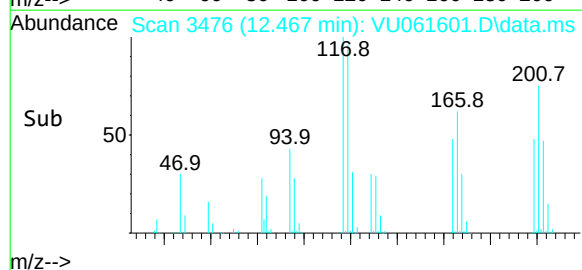
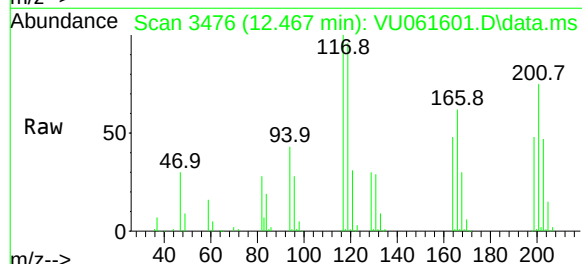
Acq: 12 Nov 2024 12:20

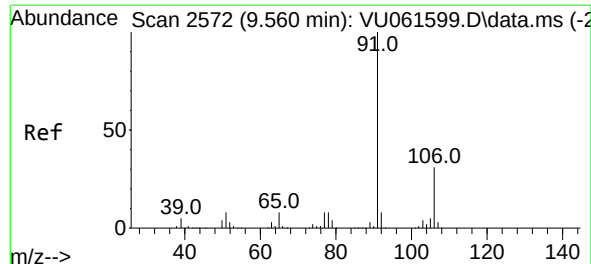
Tgt Ion:117 Resp: 98419

Ion Ratio Lower Upper

117 100

201 75.5 61.0 91.6





#63

Ethyl Benzene

Concen: 10.876 ug/l

RT: 9.563 min Scan# 2572

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 91 Resp: 677309

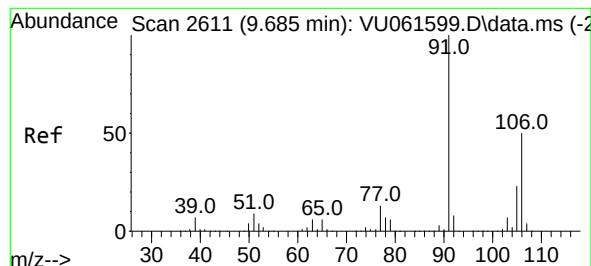
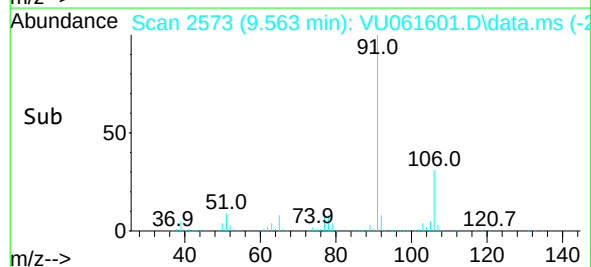
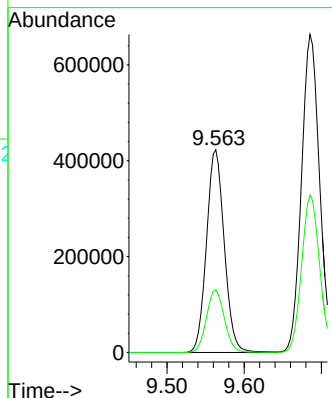
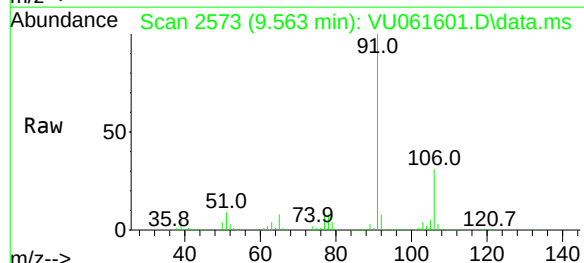
Ion Ratio Lower Upper

91 100

106 30.9 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#64

m/p-Xylenes

Concen: 22.515 ug/l

RT: 9.685 min Scan# 2611

Delta R.T. -0.000 min

Lab File: VU061601.D

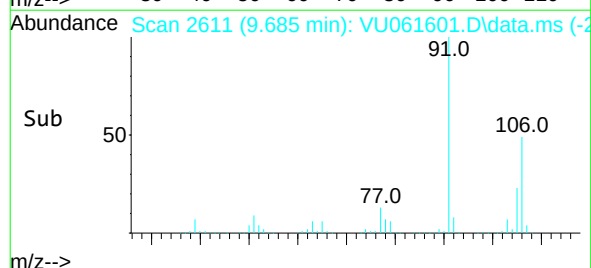
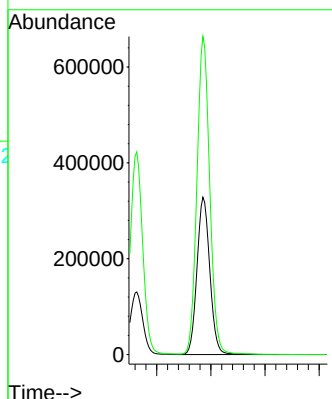
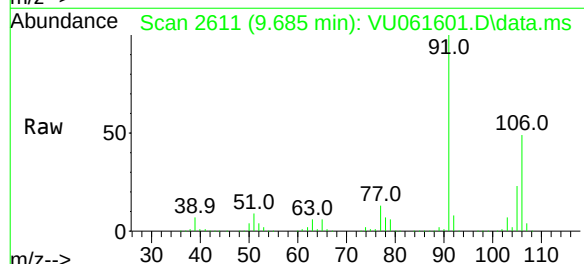
Acq: 12 Nov 2024 12:20

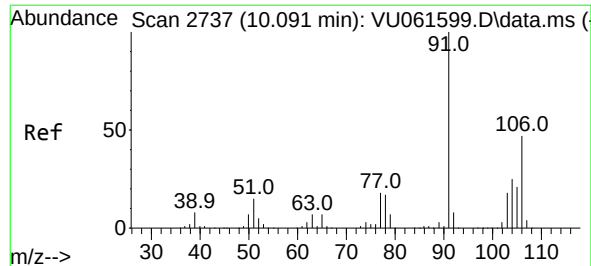
Tgt Ion:106 Resp: 539962

Ion Ratio Lower Upper

106 100

91 201.5 161.3 241.9





#65

o-Xylene

Concen: 10.924 ug/l

RT: 10.094 min Scan# 2737

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion:106 Resp: 255469

Ion Ratio Lower Upper

106 100

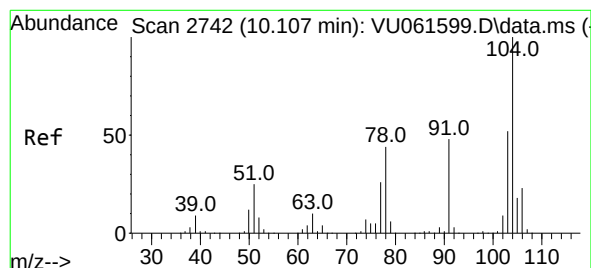
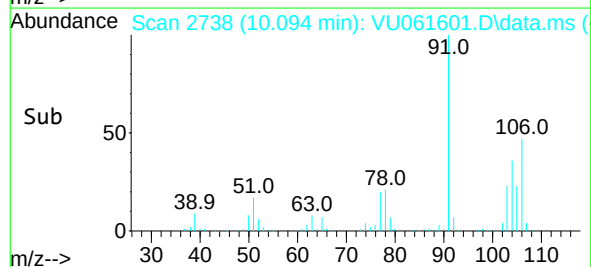
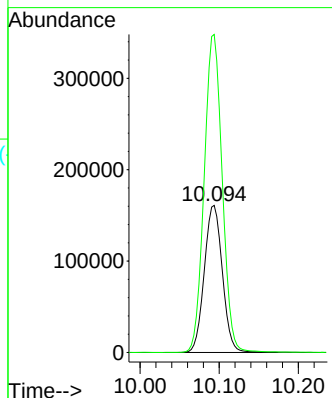
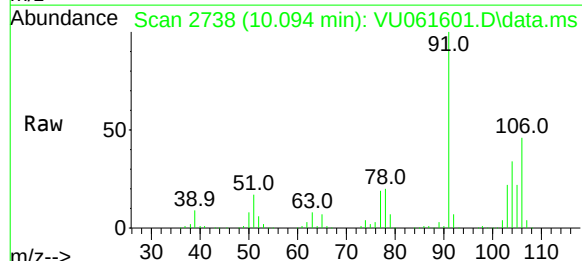
91 216.3 106.7 320.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#66

Styrene

Concen: 9.885 ug/l

RT: 10.107 min Scan# 2742

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

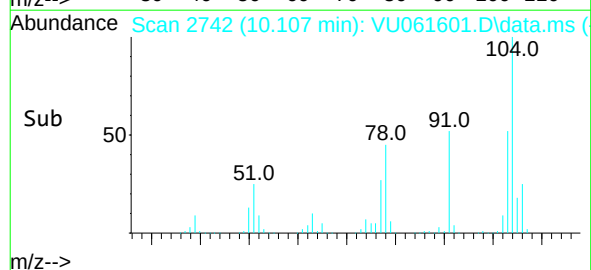
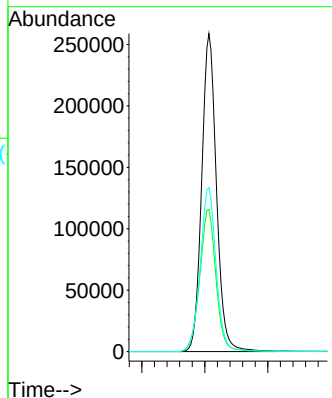
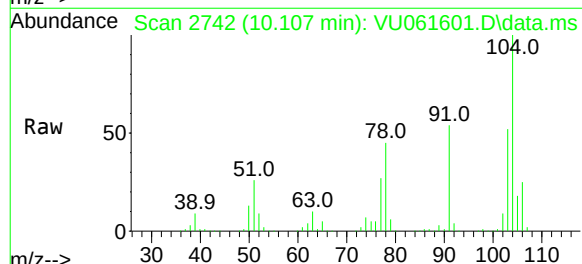
Tgt Ion:104 Resp: 421656

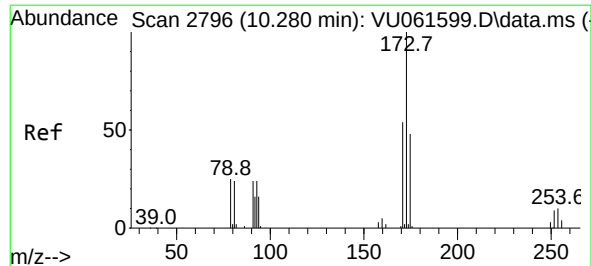
Ion Ratio Lower Upper

104 100

78 49.1 39.2 58.8

103 55.5 44.9 67.3





#67

Bromoform

Concen: 11.119 ug/l

RT: 10.283 min Scan# 2796

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

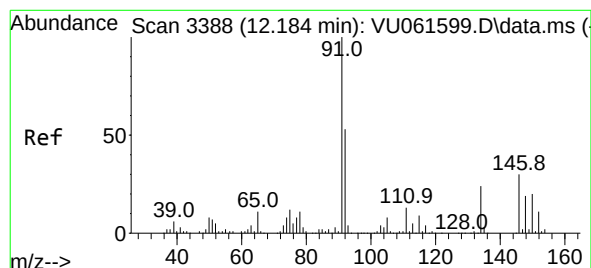
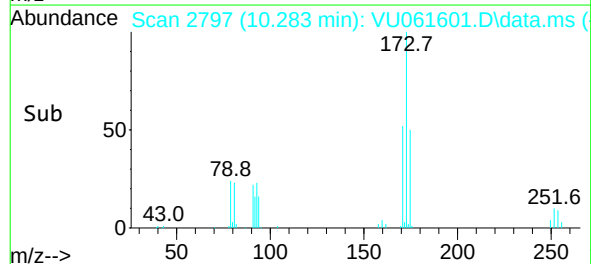
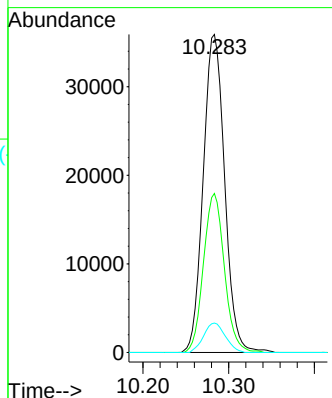
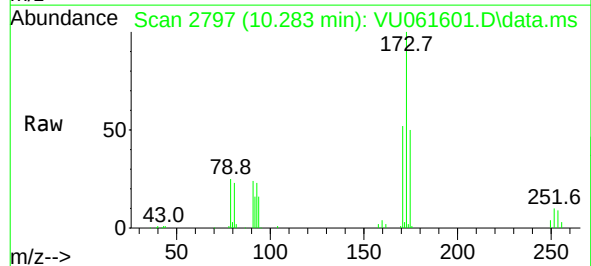
ClientSampleId :

ICVVU111224

Tgt Ion:	173	Resp:	62406
Ion Ratio	Lower	Upper	
173	100		
175	48.8	38.4	57.6
254	9.4	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 1.082 ug/l

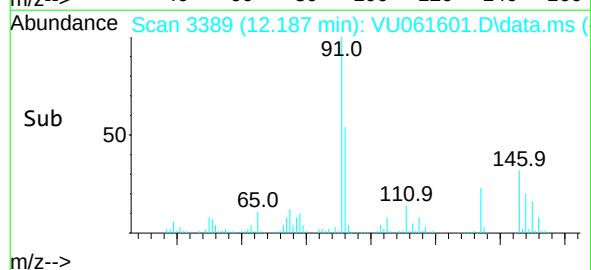
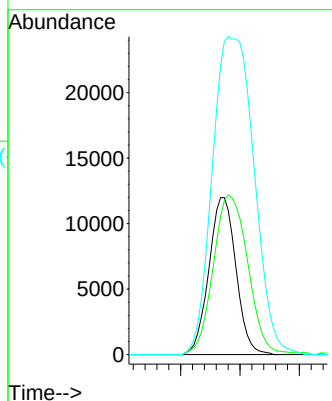
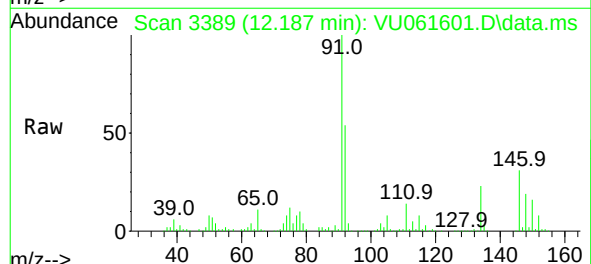
RT: 12.187 min Scan# 3389

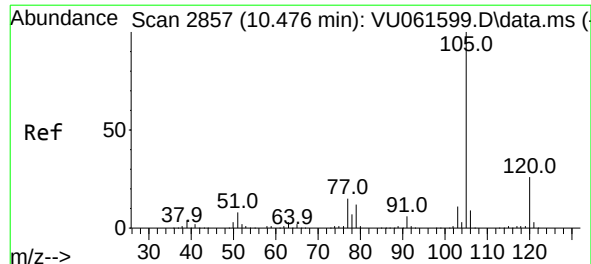
Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion:	152	Resp:	18993
Ion Ratio	Lower	Upper	
152	100		
115	129.6	0.0	259.0
150	311.6	0.0	650.2





#69

Isopropylbenzene

Concen: 12.240 ug/l

RT: 10.476 min Scan# 2857

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVU111224

Tgt Ion: 105 Resp: 669504

Ion Ratio Lower Upper

105 100

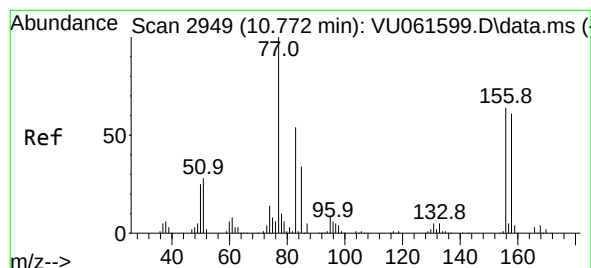
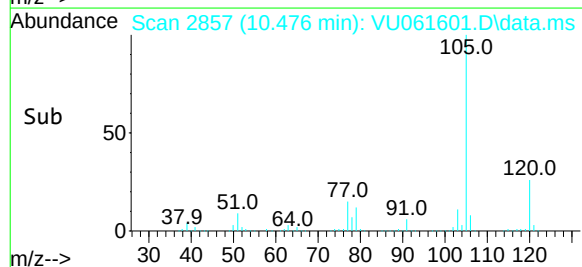
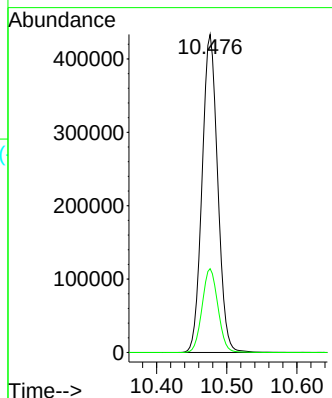
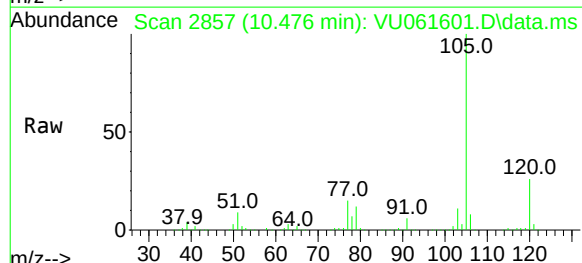
120 26.7 13.2 39.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 9.492 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

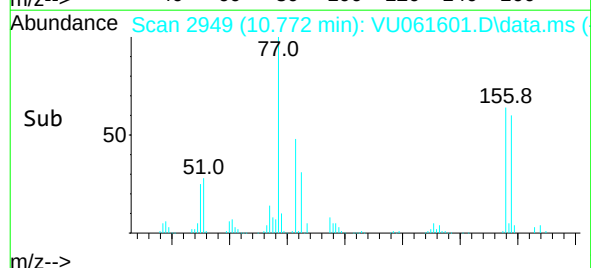
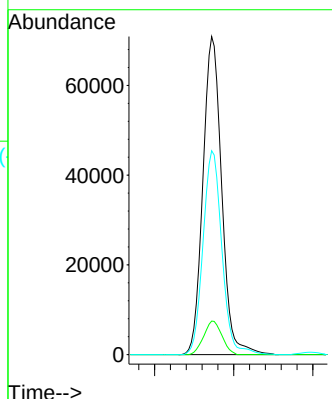
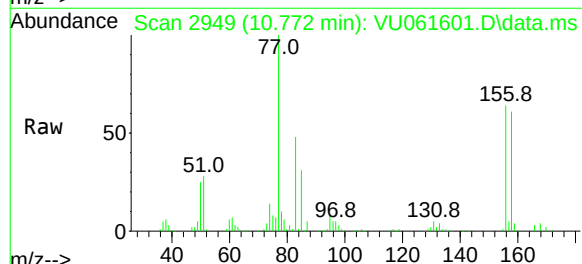
Tgt Ion: 83 Resp: 116816

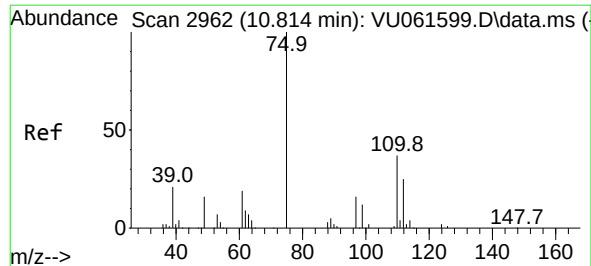
Ion Ratio Lower Upper

83 100

131 10.2 7.9 11.9

85 64.2 51.4 77.2





#71

1,2,3-Trichloropropane

Concen: 8.791 ug/l m

RT: 10.814 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 75 Resp: 87064

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 35.9 0.0 61.6

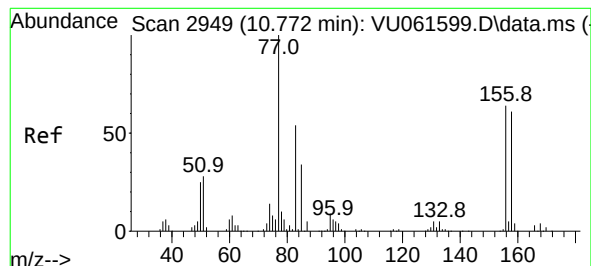
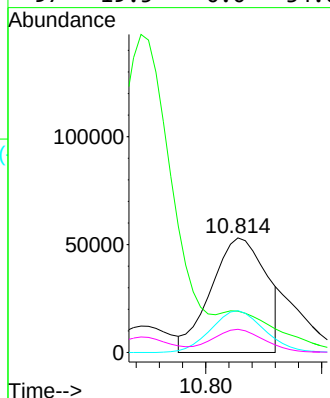
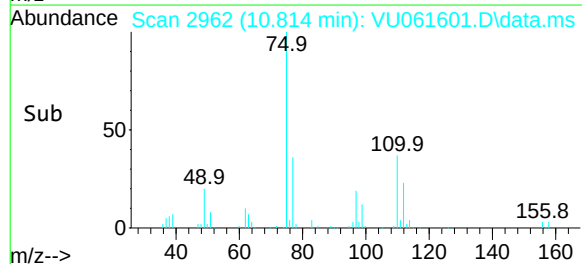
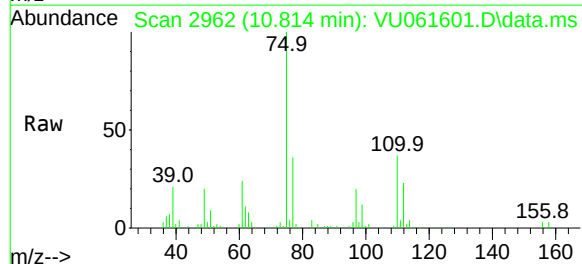
97 19.5 0.0 34.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

Concen: 10.723 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

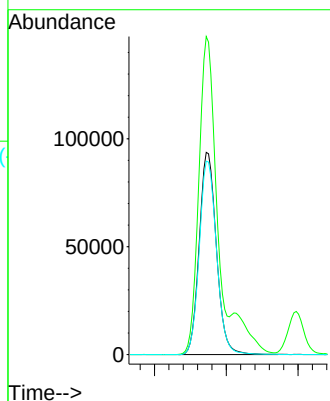
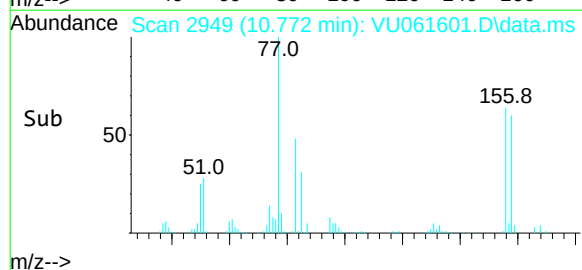
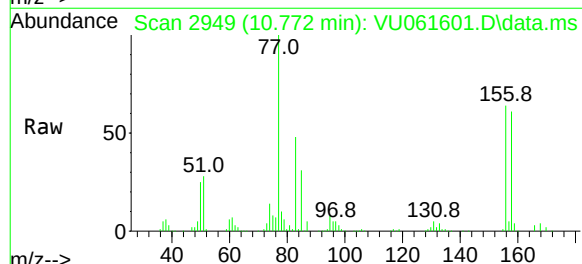
Tgt Ion:156 Resp: 155500

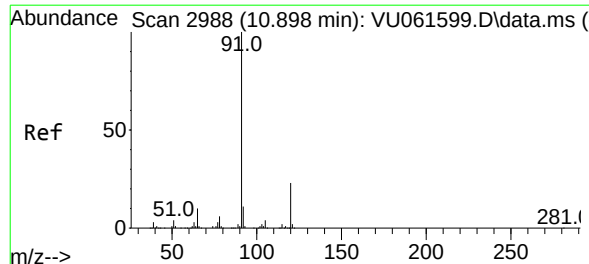
Ion Ratio Lower Upper

156 100

77 156.9 0.0 313.0

158 96.3 0.0 193.2





#73

n-propylbenzene

Concen: 11.430 ug/l

RT: 10.897 min Scan# 2988

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion:120 Resp: 184835

Ion Ratio Lower Upper

120 100

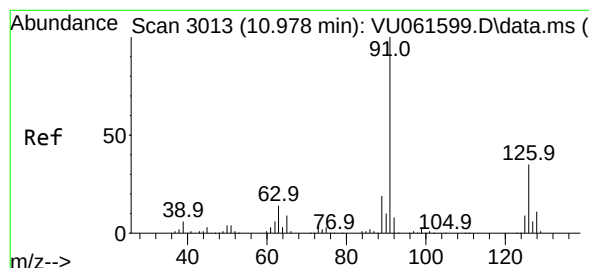
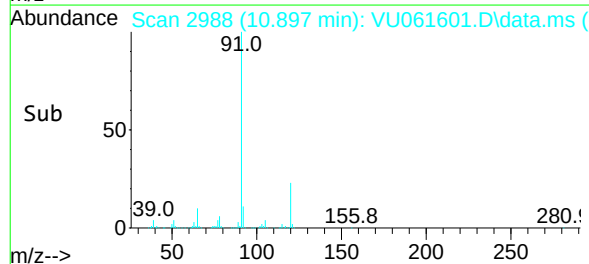
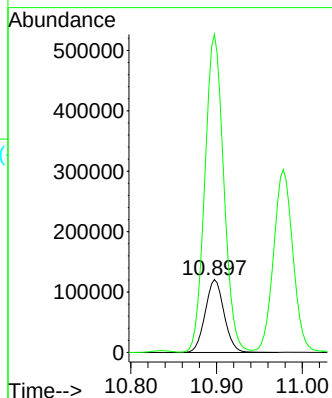
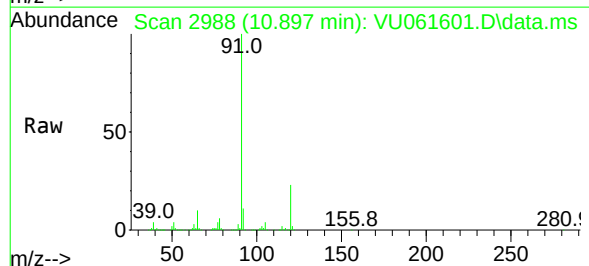
91 436.3 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#74

2-Chlorotoluene

Concen: 11.223 ug/l

RT: 10.978 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU061601.D

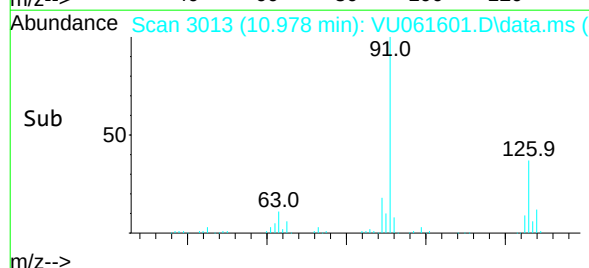
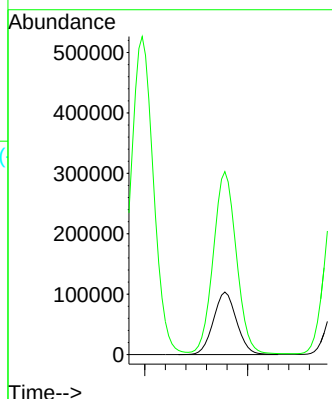
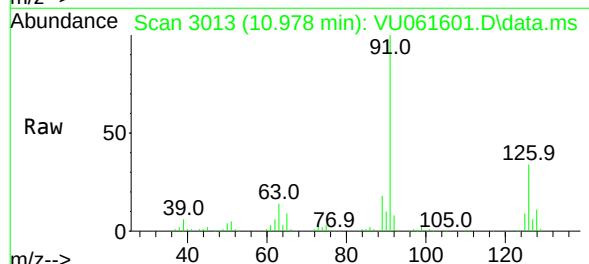
Acq: 12 Nov 2024 12:20

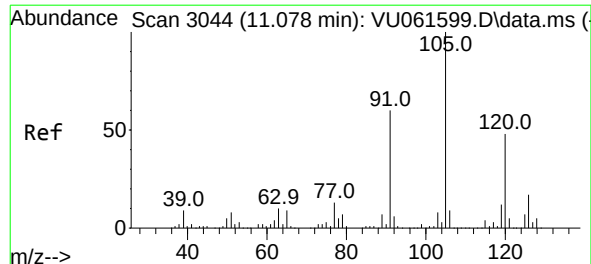
Tgt Ion:126 Resp: 161923

Ion Ratio Lower Upper

126 100

91 293.0 0.0 587.6





#75

1,3,5-Trimethylbenzene

Concen: 11.562 ug/l

RT: 11.081 min Scan# 3045

Delta R.T. 0.003 min

Lab File: VU061601.D

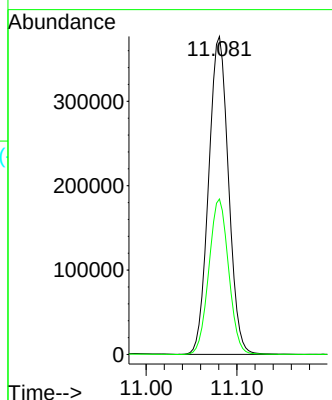
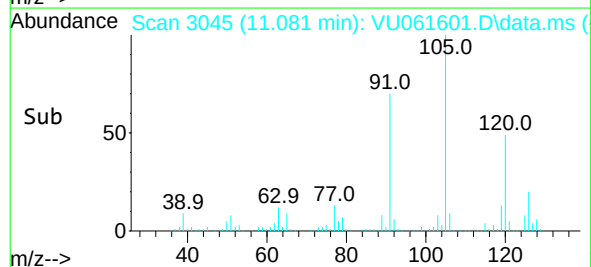
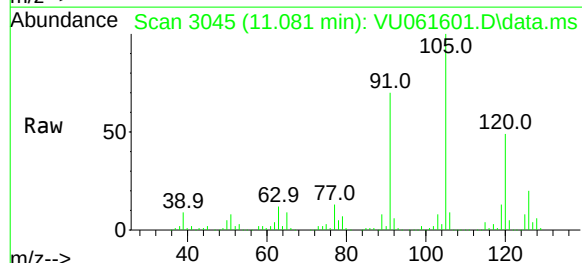
Acq: 12 Nov 2024 12:20

Tgt Ion:105 Resp: 572526

Ion Ratio Lower Upper

105 100

120 48.7 38.8 58.2



Instrument :

MSVOA_U

ClientSampleId :

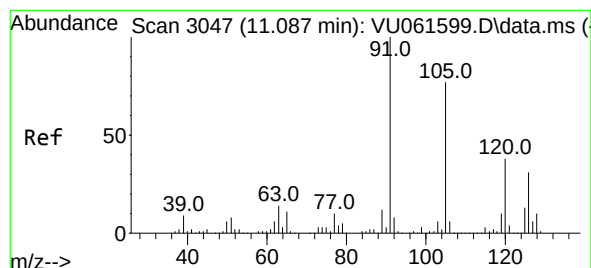
ICVVU111224

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#76

4-Chlorotoluene

Concen: 11.324 ug/l

RT: 11.090 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VU061601.D

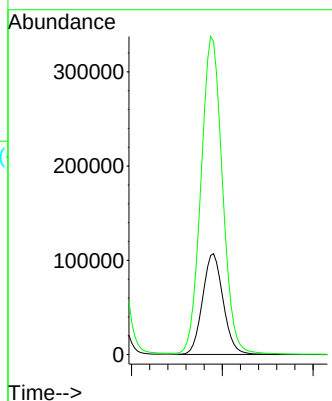
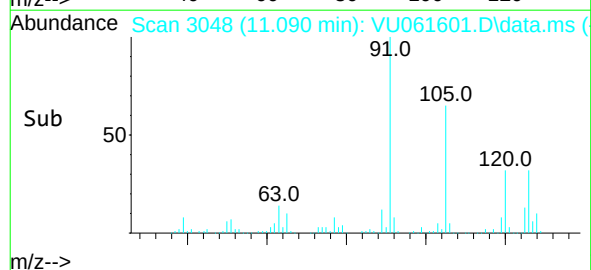
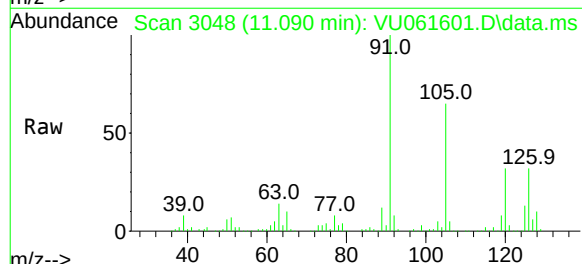
Acq: 12 Nov 2024 12:20

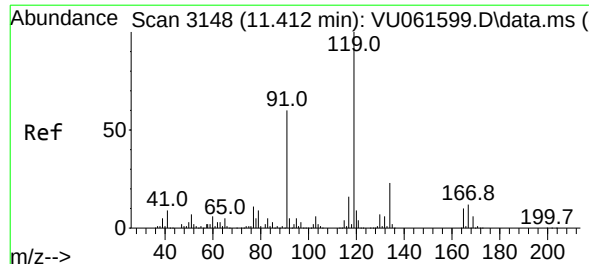
Tgt Ion:126 Resp: 168047

Ion Ratio Lower Upper

126 100

91 330.0 0.0 650.4





#77

tert-Butylbenzene

Concen: 11.585 ug/l

RT: 11.412 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

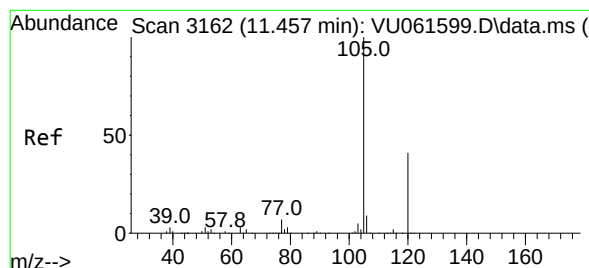
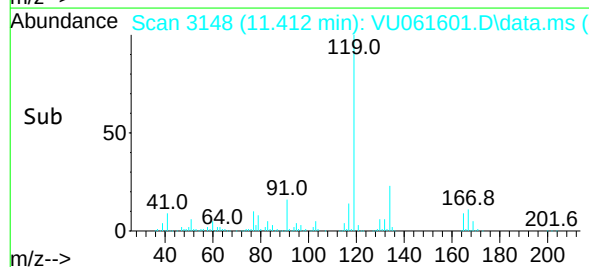
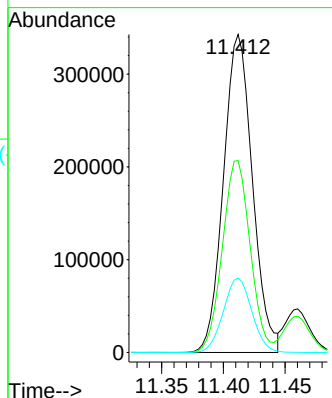
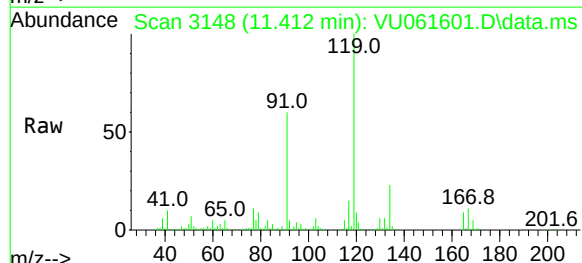
ClientSampleId :

ICVVU111224

Tgt Ion:	119	Resp:	560051
Ion Ratio	Lower	Upper	
119	100		
91	58.1	29.2	87.6
134	23.1	18.4	27.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 9.854 ug/l

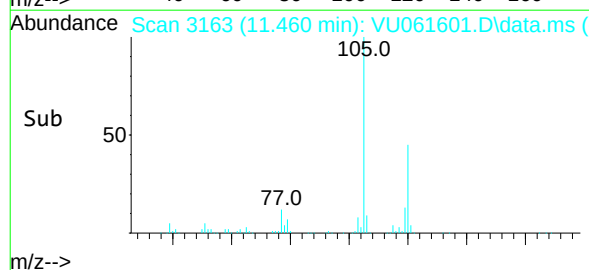
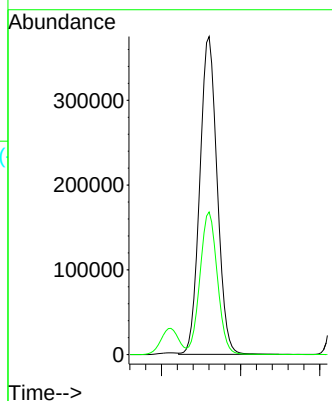
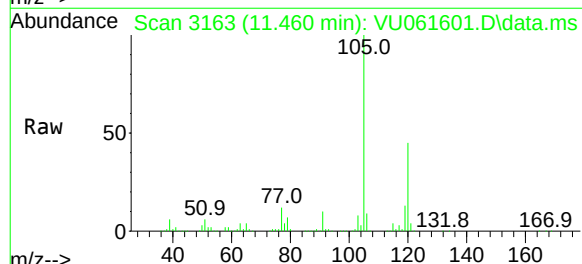
RT: 11.460 min Scan# 3163

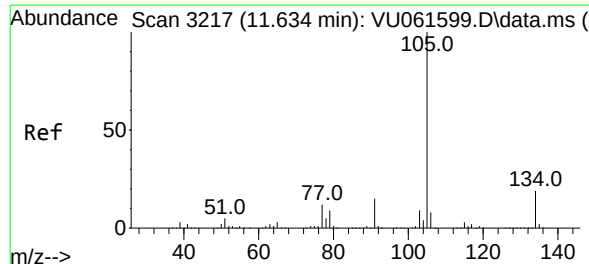
Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion:	105	Resp:	571579
Ion Ratio	Lower	Upper	
105	100		
120	44.9	22.7	68.0





#79

sec-Butylbenzene

Concen: 11.537 ug/l

RT: 11.634 min Scan# 3217

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion: 105 Resp: 739347

Ion Ratio Lower Upper

105 100

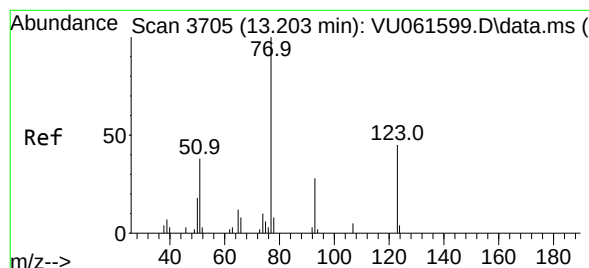
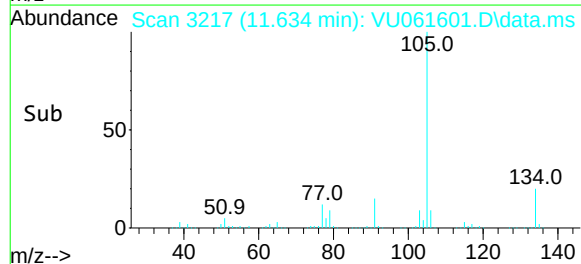
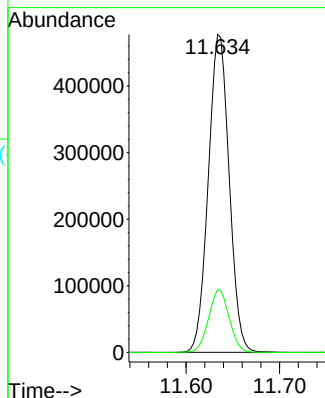
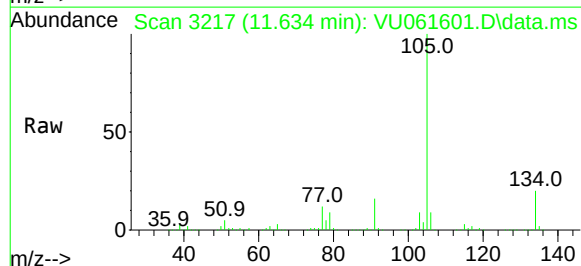
134 19.6 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#80

Nitrobenzene

Concen: 12.624 ug/l

RT: 13.212 min Scan# 3708

Delta R.T. 0.010 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

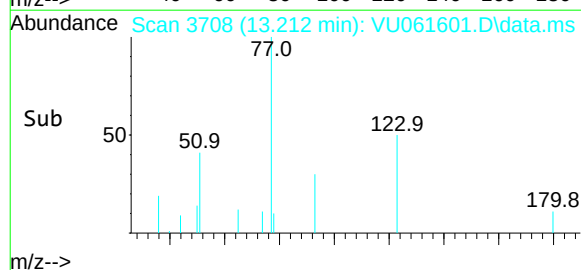
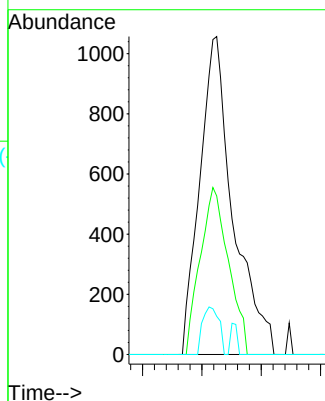
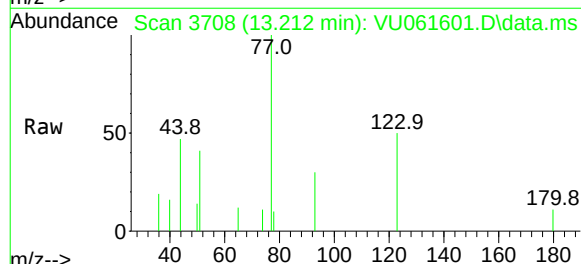
Tgt Ion: 77 Resp: 2060

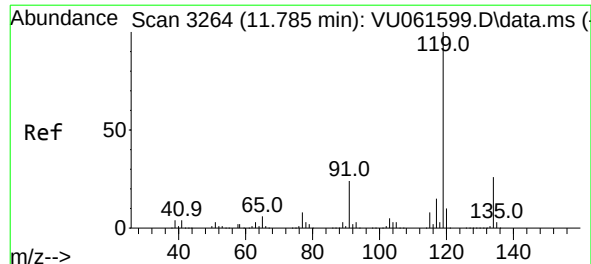
Ion Ratio Lower Upper

77 100

123 44.7 16.9 60.1

65 0.0 9.4 12.0#





#81

p-Isopropyltoluene

Concen: 10.130 ug/l

RT: 11.785 min Scan# 3264

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

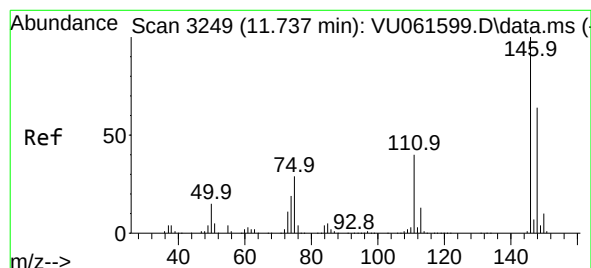
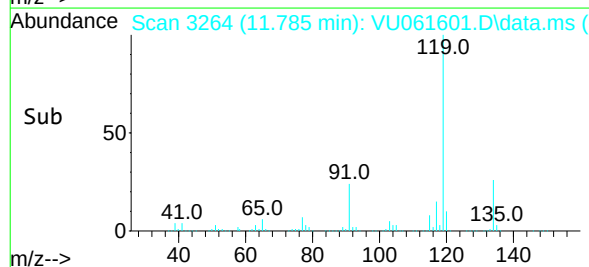
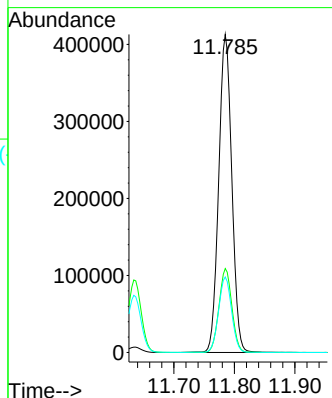
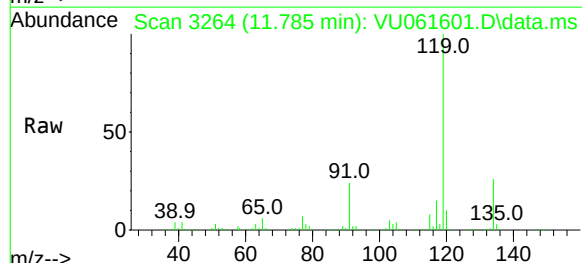
ClientSampleId :

ICVVU111224

Tgt Ion:	119	Resp:	620301
Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.9	31.3
91	23.4	18.8	28.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#82

1,3-Dichlorobenzene

Concen: 11.249 ug/l

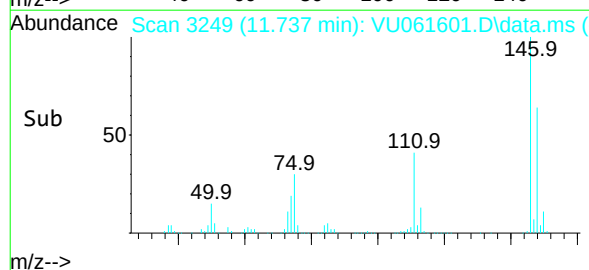
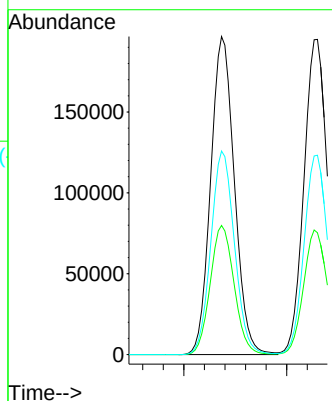
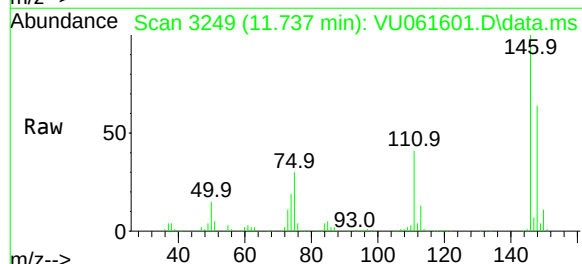
RT: 11.737 min Scan# 3249

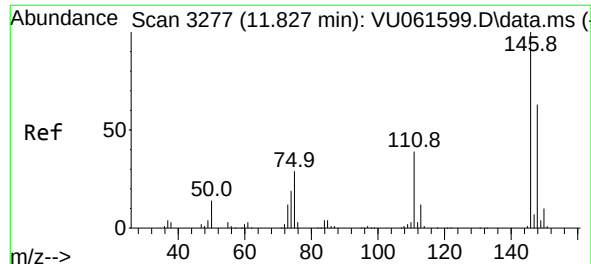
Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion:	146	Resp:	315514
Ion	Ratio	Lower	Upper
146	100		
111	40.9	32.6	49.0
148	63.8	51.0	76.4





#83

1,4-Dichlorobenzene

Concen: 11.262 ug/l

RT: 11.830 min Scan# 3277

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

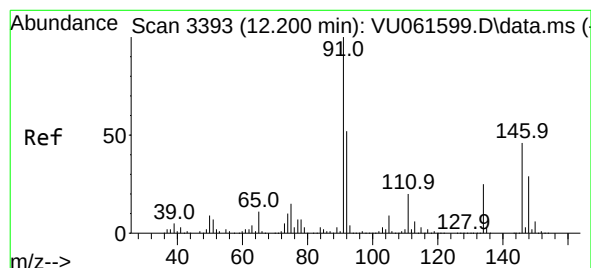
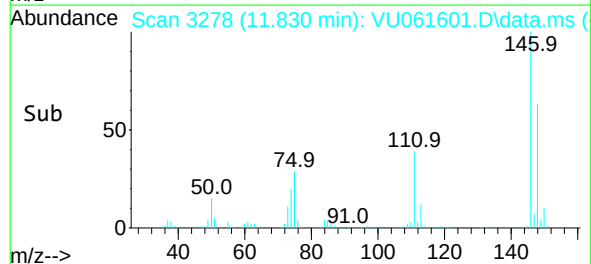
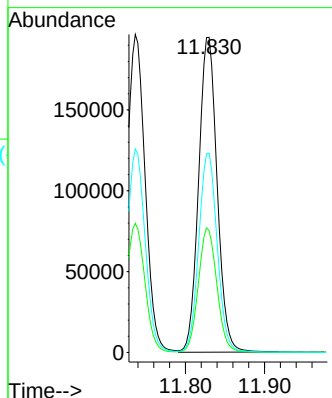
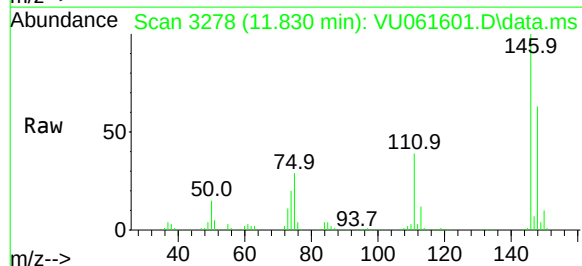
ClientSampleId :

ICVVU111224

Tgt Ion:	146	Resp:	316205
Ion	Ratio	Lower	Upper
146	100		
111	39.6	31.2	46.8
148	63.1	50.2	75.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#84

n-Butylbenzene

Concen: 10.312 ug/l

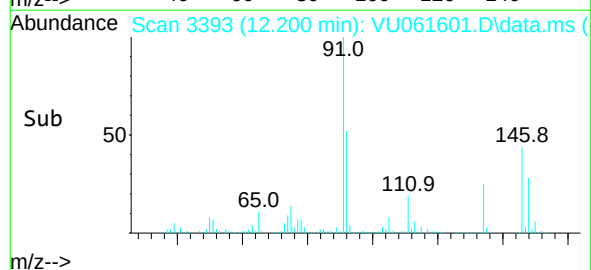
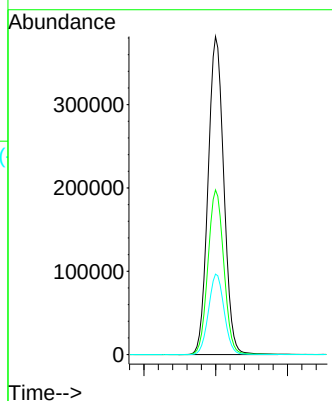
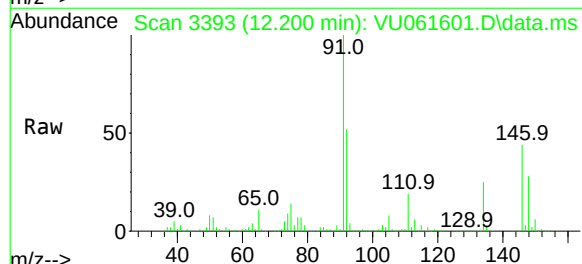
RT: 12.200 min Scan# 3393

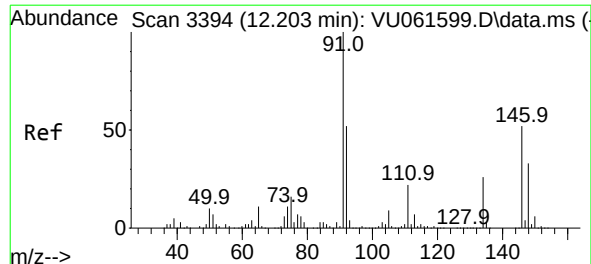
Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion:	91	Resp:	581721
Ion	Ratio	Lower	Upper
91	100		
92	52.1	41.8	62.6
134	25.2	20.2	30.4





#85

1,2-Dichlorobenzene

Concen: 10.969 ug/l

RT: 12.203 min Scan# 3394

Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

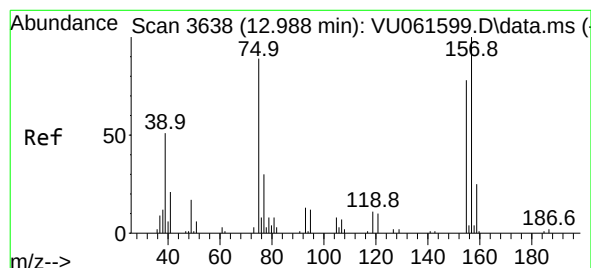
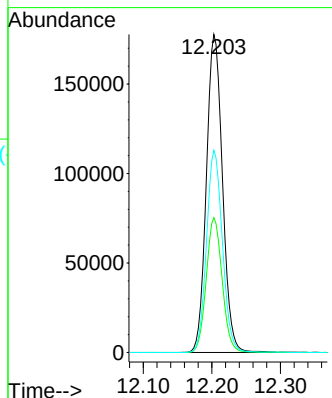
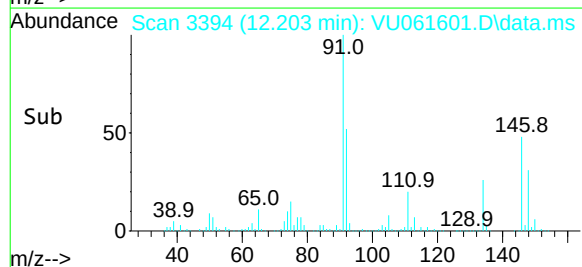
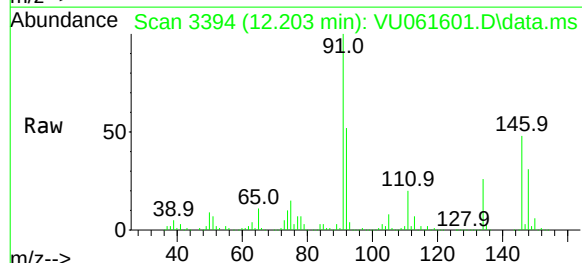
ClientSampleId :

ICVU111224

Tgt Ion:	146	Resp:	290374
Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.3	63.9
148	62.8	32.0	96.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#86

1,2-Dibromo-3-Chloropropane

Concen: 8.457 ug/l

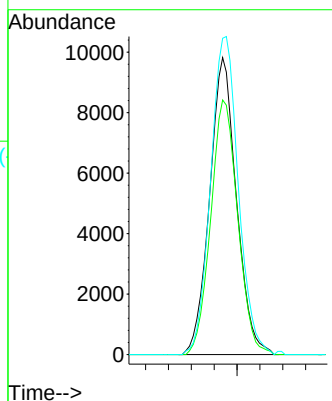
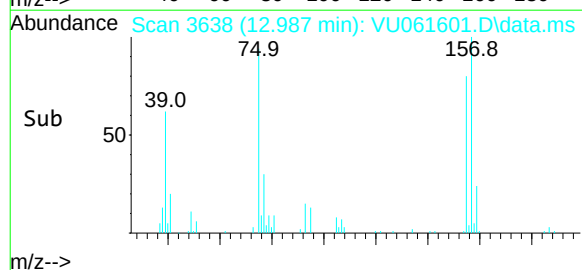
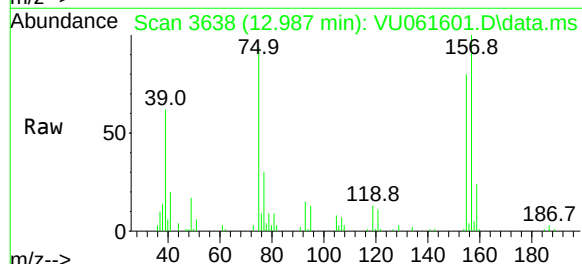
RT: 12.987 min Scan# 3638

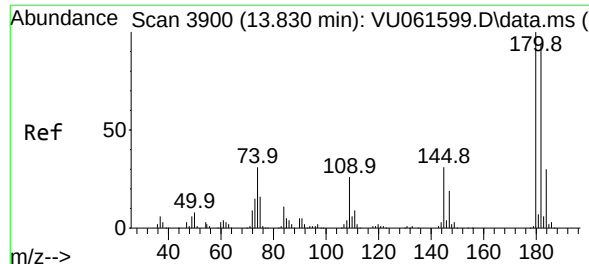
Delta R.T. -0.000 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Tgt Ion:	75	Resp:	16000
Ion	Ratio	Lower	Upper
75	100		
155	86.0	68.8	103.2
157	110.6	88.2	132.4





#87

1,2,4-Trichlorobenzene

Concen: 10.164 ug/l

RT: 13.833 min Scan# 3900

Delta R.T. 0.003 min

Lab File: VU061601.D

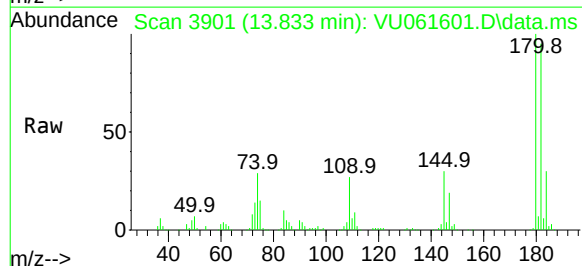
Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

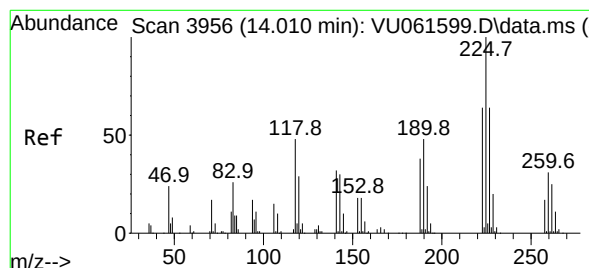
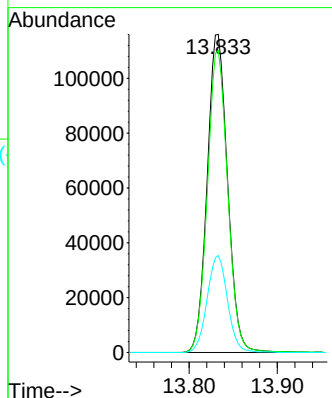
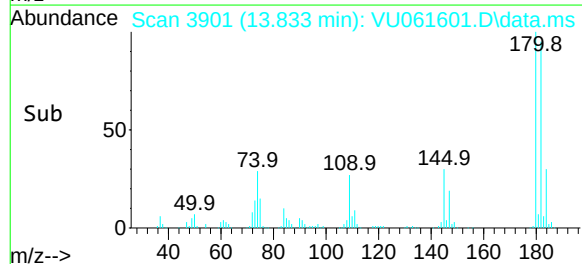
ICVVU111224



Tgt Ion:	180	Resp:	185739
Ion Ratio	Lower	Upper	
180	100		
182	94.8	75.3	112.9
145	30.6	24.3	36.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#88

Hexachlorobutadiene

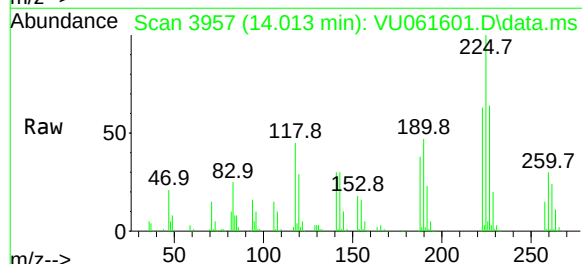
Concen: 10.983 ug/l

RT: 14.013 min Scan# 3957

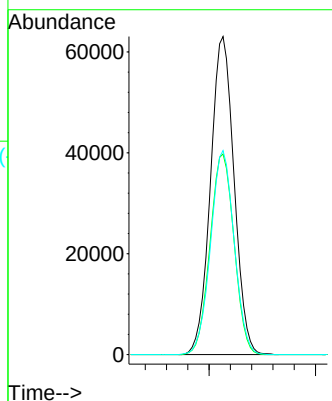
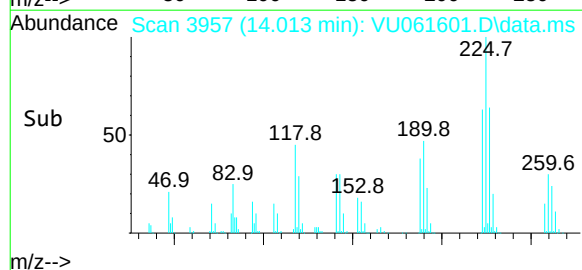
Delta R.T. 0.003 min

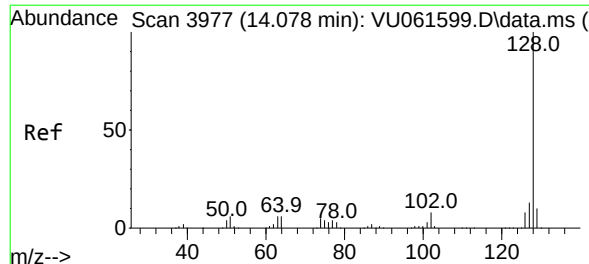
Lab File: VU061601.D

Acq: 12 Nov 2024 12:20



Tgt Ion:	225	Resp:	97103
Ion Ratio	Lower	Upper	
225	100		
223	64.2	50.8	76.2
227	64.2	51.2	76.8





#89

Naphthalene

Concen: 9.349 ug/l

RT: 14.081 min Scan# 39

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

Instrument :

MSVOA_U

ClientSampleId :

ICVVU111224

Tgt Ion:128 Resp: 287618

Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

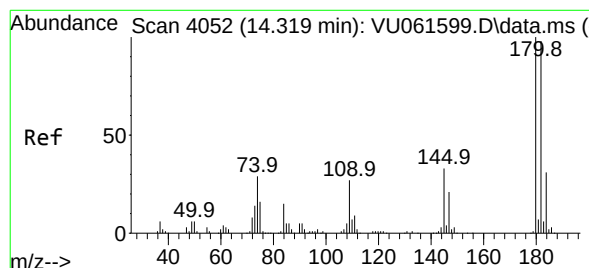
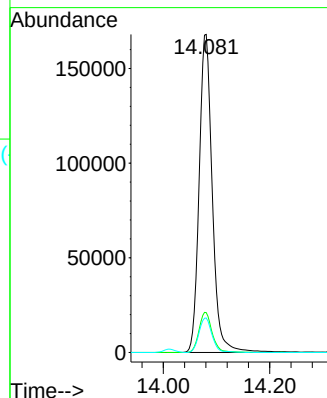
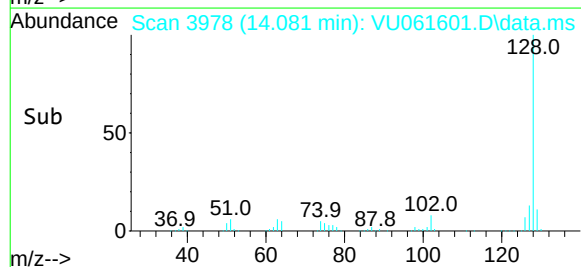
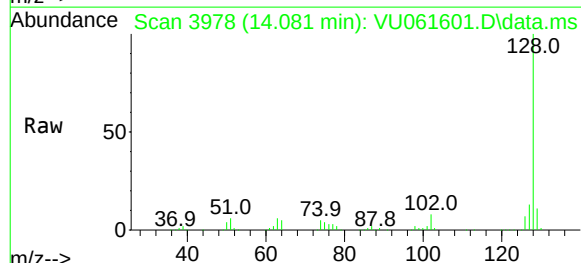
129 10.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#90

1,2,3-Trichlorobenzene

Concen: 9.321 ug/l

RT: 14.322 min Scan# 4053

Delta R.T. 0.003 min

Lab File: VU061601.D

Acq: 12 Nov 2024 12:20

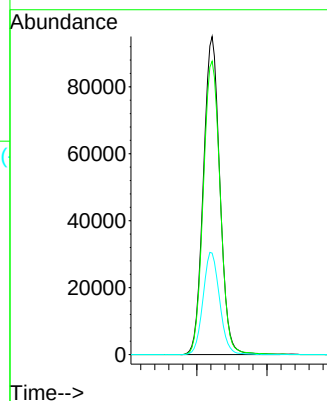
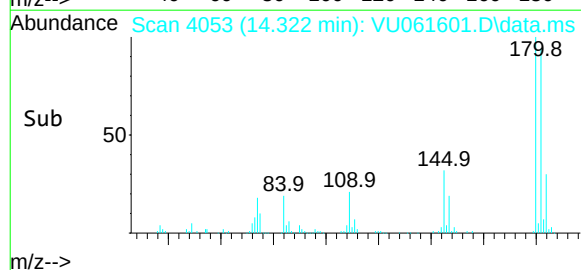
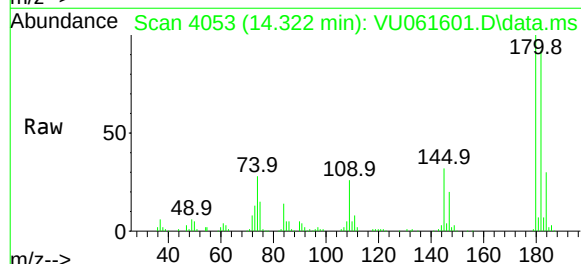
Tgt Ion:180 Resp: 155099

Ion Ratio Lower Upper

180 100

182 94.6 77.9 116.9

145 32.3 25.9 38.9





QC SAMPLE DATA

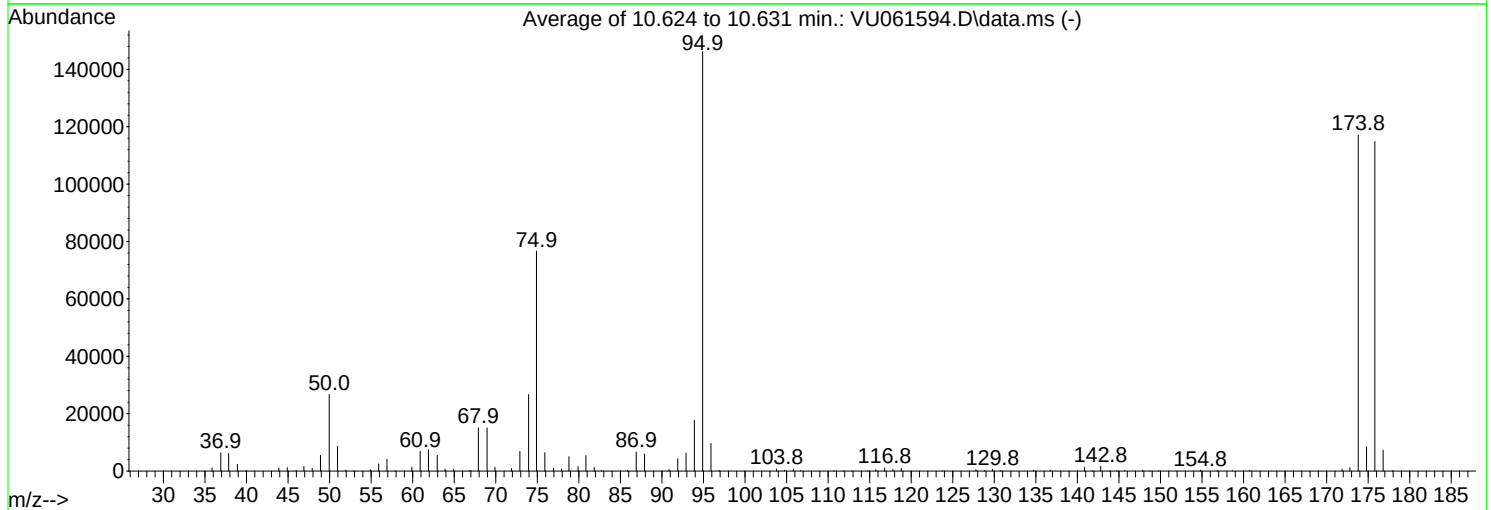
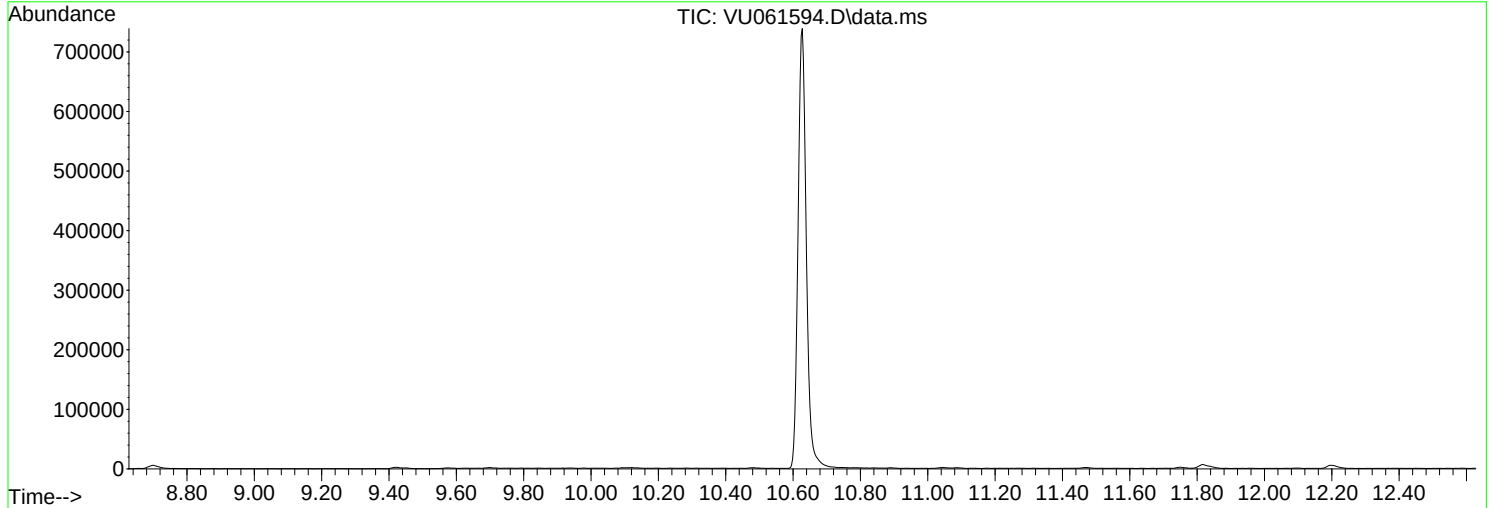
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
Data File : VU061594.D
Acq On : 12 Nov 2024 07:51
Operator : MD/SY
Sample : BFB
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB

Integration File: rteint.p

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Title : METHOD 524.2 VOLATILES DRINKING WATER
Last Update : Wed Nov 13 05:00:10 2024



AutoFind: Scans 2903, 2904, 2905; Background Corrected with Scan 2889

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	26728	PASS
75	95	30	60	52.5	76667	PASS
95	95	100	100	100.0	146133	PASS
96	95	5	9	6.6	9641	PASS
173	174	0.00	2	1.0	1187	PASS
174	95	50	100	80.2	117155	PASS
175	174	5	9	7.3	8540	PASS
176	174	95	101	98.1	114883	PASS
177	176	5	9	6.4	7328	PASS

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Drinking Water PT		Date Received:	
Client Sample ID:	VU1112WBL01		SDG No.:	P4635
Lab Sample ID:	VU1112WBL01		Matrix:	Water
Analytical Method:	E524.2		% Solid:	0
Sample Wt/Vol:	25	Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU061602.D	1		11/12/24 13:15	VU111224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
67-66-3	Chloroform	0.13	U	0.13	0.50	ug/L
75-27-4	Bromodichloromethane	0.12	U	0.12	0.50	ug/L
124-48-1	Dibromochloromethane	0.13	U	0.13	0.50	ug/L
75-25-2	Bromoform	0.14	U	0.14	0.50	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	0.90		70 - 130	90%	SPK: 1
460-00-4	4-Bromofluorobenzene	0.86		70 - 130	86%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	46500	6.11			

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_U\Data\VU111224\
Data File : VU061602.D
Acq On : 12 Nov 2024 13:15
Operator : MD/SY
Sample : VU1112WBL01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBL01

Quant Time: Nov 13 05:07:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 05:00:10 2024
Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.110	96	46549	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	13886	0.860	ug/l	0.00
Spiked Amount	1.000		Recovery	=	86.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	14521	0.903	ug/l	0.00
Spiked Amount	1.000		Recovery	=	90.000%	

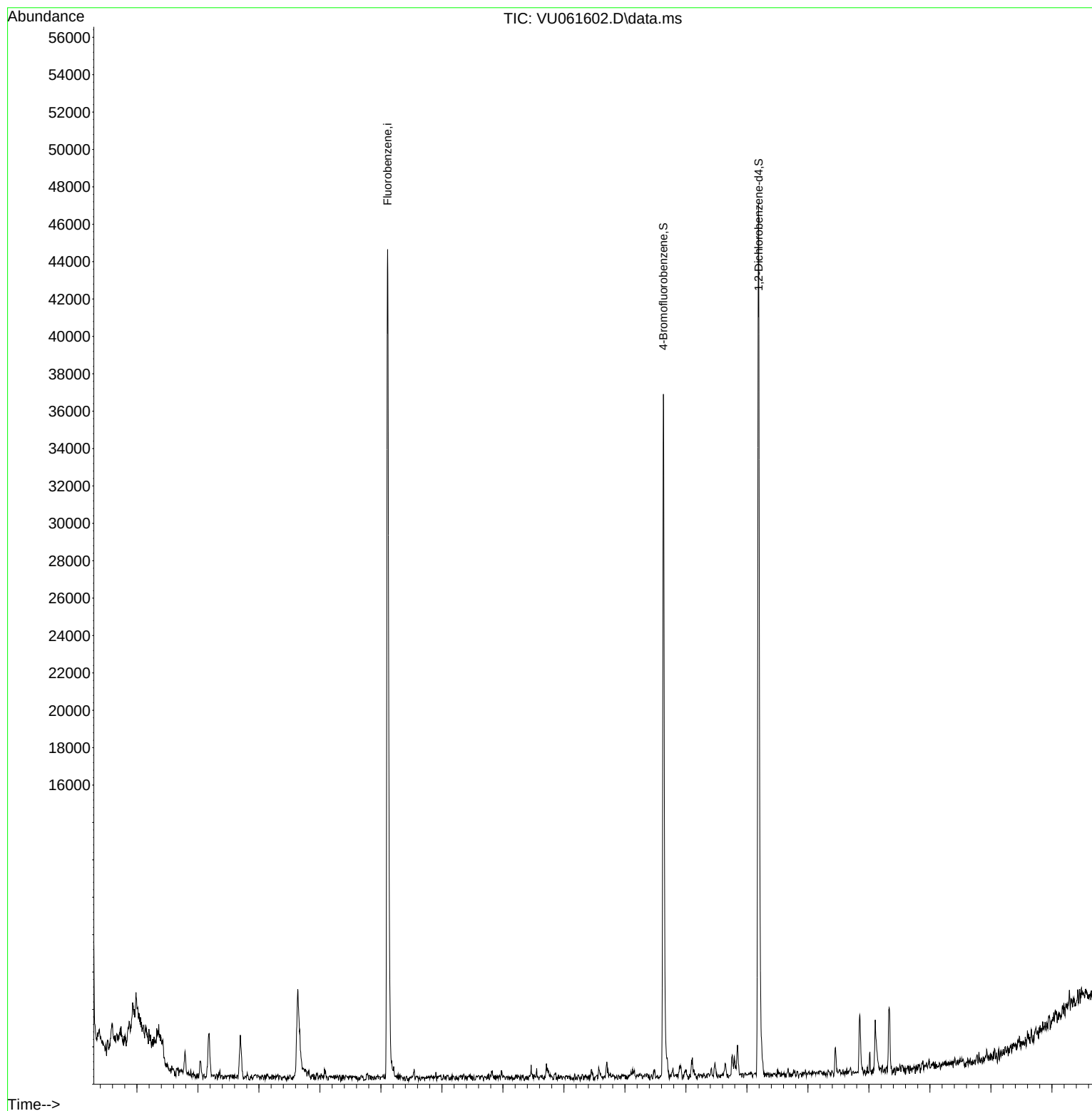
Target Compounds	Qvalue

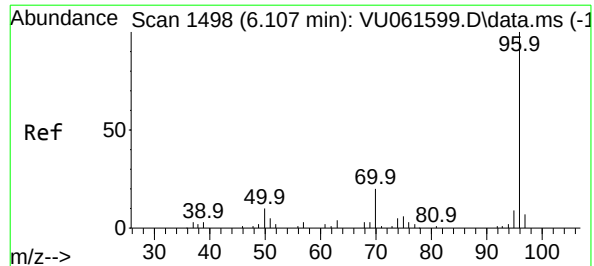
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
Data File : VU061602.D
Acq On : 12 Nov 2024 13:15
Operator : MD/SY
Sample : VU1112WBL01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBL01

Quant Time: Nov 13 05:07:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 05:00:10 2024
Response via : Initial Calibration

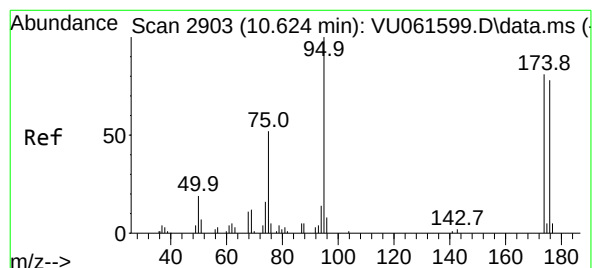
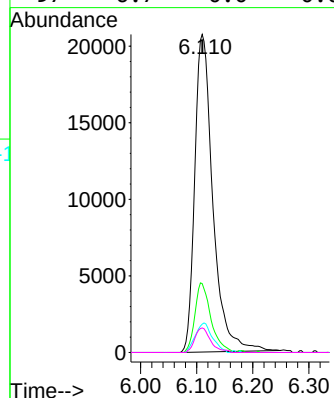
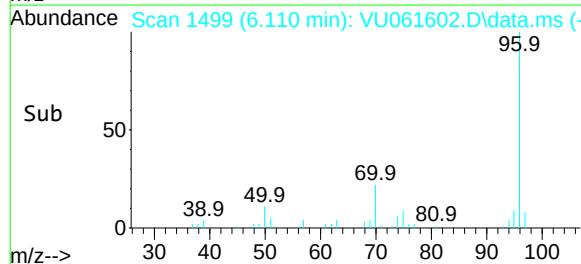
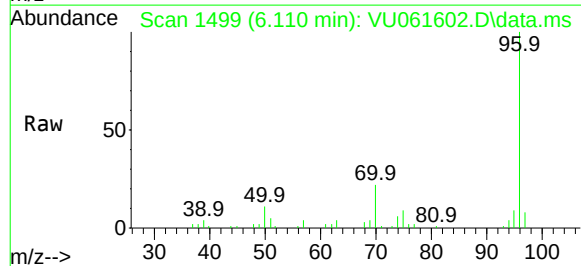




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1498
Delta R.T. 0.003 min
Lab File: VU061602.D
Acq: 12 Nov 2024 13:15

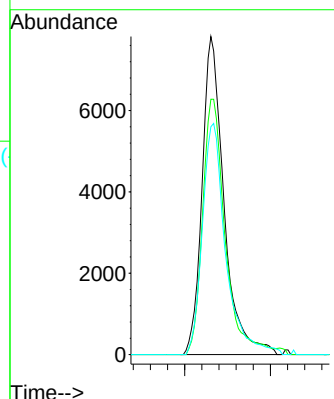
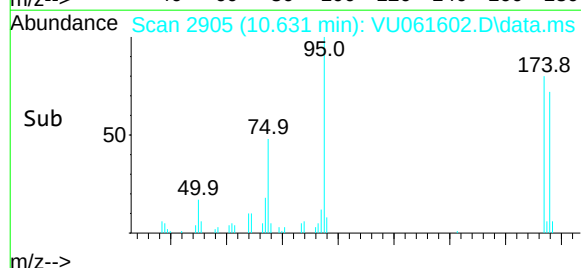
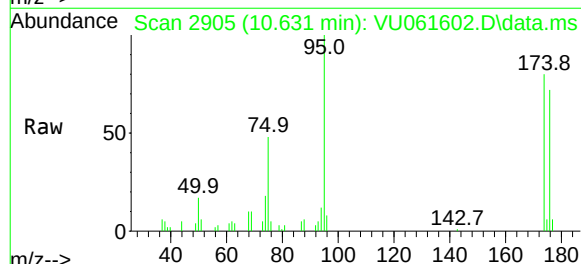
Instrument :
MSVOA_U
ClientSampleId :
VU1112WBL01

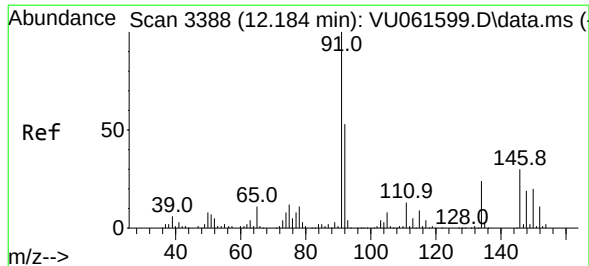
Tgt Ion:	96	Resp:	46549
Ion	Ratio	Lower	Upper
96	100		
70	19.3	15.8	23.6
95	8.7	7.3	10.9
97	6.7	0.0	0.0#



#57
4-Bromofluorobenzene
Concen: 0.860 ug/l
RT: 10.631 min Scan# 2905
Delta R.T. 0.006 min
Lab File: VU061602.D
Acq: 12 Nov 2024 13:15

Tgt Ion:	95	Resp:	13886
Ion	Ratio	Lower	Upper
95	100		
174	82.9	67.5	101.3
176	77.3	62.7	94.1





#68

1,2-Dichlorobenzene-d4

Concen: 0.903 ug/l

RT: 12.190 min Scan# 33

Delta R.T. 0.006 min

Lab File: VU061602.D

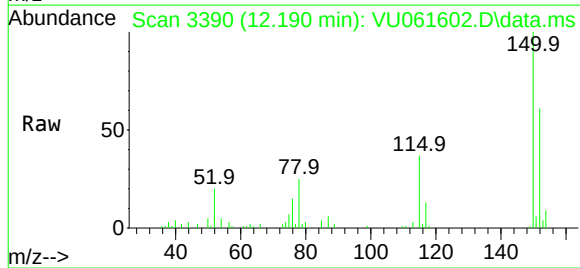
Acq: 12 Nov 2024 13:15

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBL01



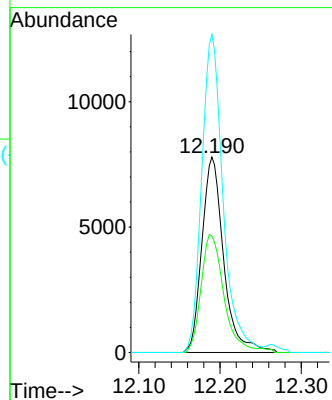
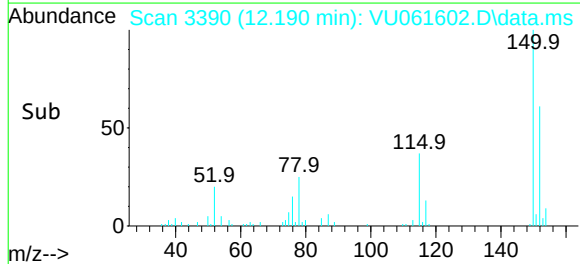
Tgt Ion:152 Resp: 14521

Ion Ratio Lower Upper

152 100

115 63.6 0.0 259.0

150 158.9 0.0 650.2



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU1112WBS01	SDG No.:	P4635
Lab Sample ID:	VU1112WBS01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU061607.D	1		11/12/24 17:24	VU111224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
67-66-3	Chloroform	2.10		0.13	0.50	ug/L
75-27-4	Bromodichloromethane	2.10		0.12	0.50	ug/L
124-48-1	Dibromochloromethane	2.00		0.13	0.50	ug/L
75-25-2	Bromoform	2.00		0.14	0.50	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	0.98		70 - 130	98%	SPK: 1
460-00-4	4-Bromofluorobenzene	0.95		70 - 130	95%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	45000	6.11			

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_U\Data\VU111224\
 Data File : VU061607.D
 Acq On : 12 Nov 2024 17:24
 Operator : MD/SY
 Sample : VU1112WBS01
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1112WBS01

Quant Time: Nov 13 05:08:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 05:00:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024
 Supervised By : Mahesh Dadoda 11/13/2024

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

Internal Standards						
1) Fluorobenzene	6.110	96	45006	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	14845	0.951	ug/l	0.00
Spiked Amount	1.000		Recovery	=	95.000%	
68) 1,2-Dichlorobenzene-d4	12.187	152	15292	0.983	ug/l	0.00
Spiked Amount	1.000		Recovery	=	98.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	21424	1.852	ug/l	96
3) Chloromethane	1.518	50	22902	2.070	ug/l	99
4) Vinyl Chloride	1.599	62	25754	2.069	ug/l	97
5) Bromomethane	1.853	94	16906	2.151	ug/l	100
6) Chloroethane	1.930	64	20187	2.005	ug/l	98
7) Trichlorofluoromethane	2.132	101	36567	2.052	ug/l	98
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	17775	1.864	ug/l	99
9) 1,1-Dichloroethene	2.573	96	19800	1.982	ug/l	96
10) Iodomethane	2.714	142	15292	1.932	ug/l	99
11) Allyl Chloride	2.917	41	22576	1.953	ug/l	99
12) Acrylonitrile	3.325	53	8199m	4.149	ug/l	
13) Acetone	2.644	43	17554	6.364	ug/l	99
14) Carbon Disulfide	2.788	76	62203	1.927	ug/l	98
15) Methylene Chloride	3.039	84	24974	2.069	ug/l	98
16) trans-1,2-Dichloroethene	3.348	96	23981	2.066	ug/l	97
17) 1,1-Dichloroethane	3.862	63	42262	2.042	ug/l	97
18) 2-Butanone	4.718	43	25210	7.882	ug/l	97
19) Cyclohexane	5.377	56	30065m	1.790	ug/l	
20) Methylcyclohexane	6.753	83	32003	1.699	ug/l	97
21) 2,2-Dichloropropane	4.650	77	30388	1.825	ug/l	99
22) cis-1,2-Dichloroethene	4.660	96	26433	2.088	ug/l	99
23) Diethyl Ether	2.370	59	15575	2.091	ug/l	98
24) tert-Butyl Alcohol	3.235	59	16076m	21.167	ug/l	
25) Methyl tert-Butyl Ether	3.354	73	50154	2.048	ug/l	99
26) Bromochloromethane	4.965	128	11762	2.108	ug/l	97
27) Chloroform	5.078	83	46953	2.139	ug/l	98
28) 1,1,1-Trichloroethane	5.306	97	36444	2.009	ug/l	99
29) 1,1-Dichloropropene	5.518	75	32123	1.971	ug/l	97
30) Carbon Tetrachloride	5.515	117	31546	2.029	ug/l	100
31) Isopropyl Ether	3.984	45	54426	1.976	ug/l	96
32) Ethyl-t-butyl ether	4.492	59	51702	1.964	ug/l	98
33) Tert-Amyl methyl ether	5.930	73	47222	1.984	ug/l	98
34) Propionitrile	4.801	54	7202	9.377	ug/l #	91
35) Benzene	5.766	78	100057	2.060	ug/l	99
36) 1,2-Dichloroethane	5.788	62	28403	2.104	ug/l	99
37) Trichloroethene	6.534	130	25365	1.972	ug/l	99
38) 1,2-Dichloropropane	6.785	63	25175	2.064	ug/l	98
39) Methacrylonitrile	4.975	41	5291	1.986	ug/l	93
40) Methyl acrylate	4.862	55	9686m	1.972	ug/l	
41) Tetrahydrofuran	5.062	42	6262	4.144	ug/l #	86
42) 1-Chlorobutane	5.451	56	41003	2.016	ug/l	98
43) Dibromomethane	6.914	93	13303	2.060	ug/l	97
44) Bromodichloromethane	7.097	83	30326	2.079	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061607.D
 Acq On : 12 Nov 2024 17:24
 Operator : MD/SY
 Sample : VU1112WBS01
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1112WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 05:08:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 05:00:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.785	43	56107	9.339	ug/l	98
46) t-1,4-Dichloro-2-butene	10.817	75	13271m	4.036	ug/l	
47) Methyl methacrylate	6.955	69	20040	3.909	ug/l	97
48) Ethyl methacrylate	8.328	69	19625	1.883	ug/l	98
49) Toluene	7.962	92	59069	1.992	ug/l	99
50) t-1,3-Dichloropropene	8.206	75	24852	1.904	ug/l	99
51) cis-1,3-Dichloropropene	7.602	75	32337	1.932	ug/l	98
52) 1,1,2-Trichloroethane	8.393	97	18191	2.055	ug/l	98
53) 1,3-Dichloropropane	8.566	76	30372	2.010	ug/l	96
54) 2-Hexanone	8.682	43	38677	7.556	ug/l	95
55) Dibromochloromethane	8.801	129	19547	2.040	ug/l	98
56) 1,2-Dibromoethane	8.917	107	17379	2.089	ug/l	98
58) Tetrachloroethene	8.547	164	22963	1.985	ug/l	99
59) Chlorobenzene	9.441	112	64608	1.972	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.524	131	21677	2.004	ug/l	99
61) Pentachloroethane	11.418	117	16149	1.985	ug/l	92
62) Hexachloroethane	12.466	117	13587	1.852	ug/l	95
63) Ethyl Benzene	9.563	91	104658	1.897	ug/l	99
64) m/p-Xylenes	9.685	106	80679	3.798	ug/l	99
65) o-Xylene	10.094	106	38895	1.878	ug/l	96
66) Styrene	10.110	104	60191	1.831	ug/l	98
67) Bromoform	10.283	173	9898	1.991	ug/l	99
69) Isopropylbenzene	10.476	105	90983	1.878	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.772	83	22035	2.021	ug/l	99
71) 1,2,3-Trichloropropane	10.817	75	17695m	2.017	ug/l	
72) Bromobenzene	10.778	156	25315	1.971	ug/l	84
73) n-propylbenzene	10.897	120	27212	1.900	ug/l	97
74) 2-Chlorotoluene	10.978	126	25387	1.986	ug/l	100
75) 1,3,5-Trimethylbenzene	11.081	105	82754	1.887	ug/l	100
76) 4-Chlorotoluene	11.090	126	24557	1.868	ug/l	92
77) tert-Butylbenzene	11.412	119	80606	1.882	ug/l	98
78) 1,2,4-Trimethylbenzene	11.460	105	80539	1.770	ug/l	99
79) sec-Butylbenzene	11.634	105	106265	1.872	ug/l	99
80) Nitrobenzene	13.219	77	1174	9.708	ug/l #	76
81) p-Isopropyltoluene	11.785	119	82950	1.754	ug/l	100
82) 1,3-Dichlorobenzene	11.740	146	47485	1.911	ug/l	99
83) 1,4-Dichlorobenzene	11.830	146	47265	1.900	ug/l	98
84) n-Butylbenzene	12.200	91	76712	1.759	ug/l	98
85) 1,2-Dichlorobenzene	12.206	146	45435	1.937	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.994	75	2557	1.834	ug/l	100
87) 1,2,4-Trichlorobenzene	13.836	180	23333	1.821	ug/l	99
88) Hexachlorobutadiene	14.013	225	14700	1.877	ug/l	98
89) Naphthalene	14.084	128	33527	1.742	ug/l	99
90) 1,2,3-Trichlorobenzene	14.322	180	22004	1.874	ug/l	96

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

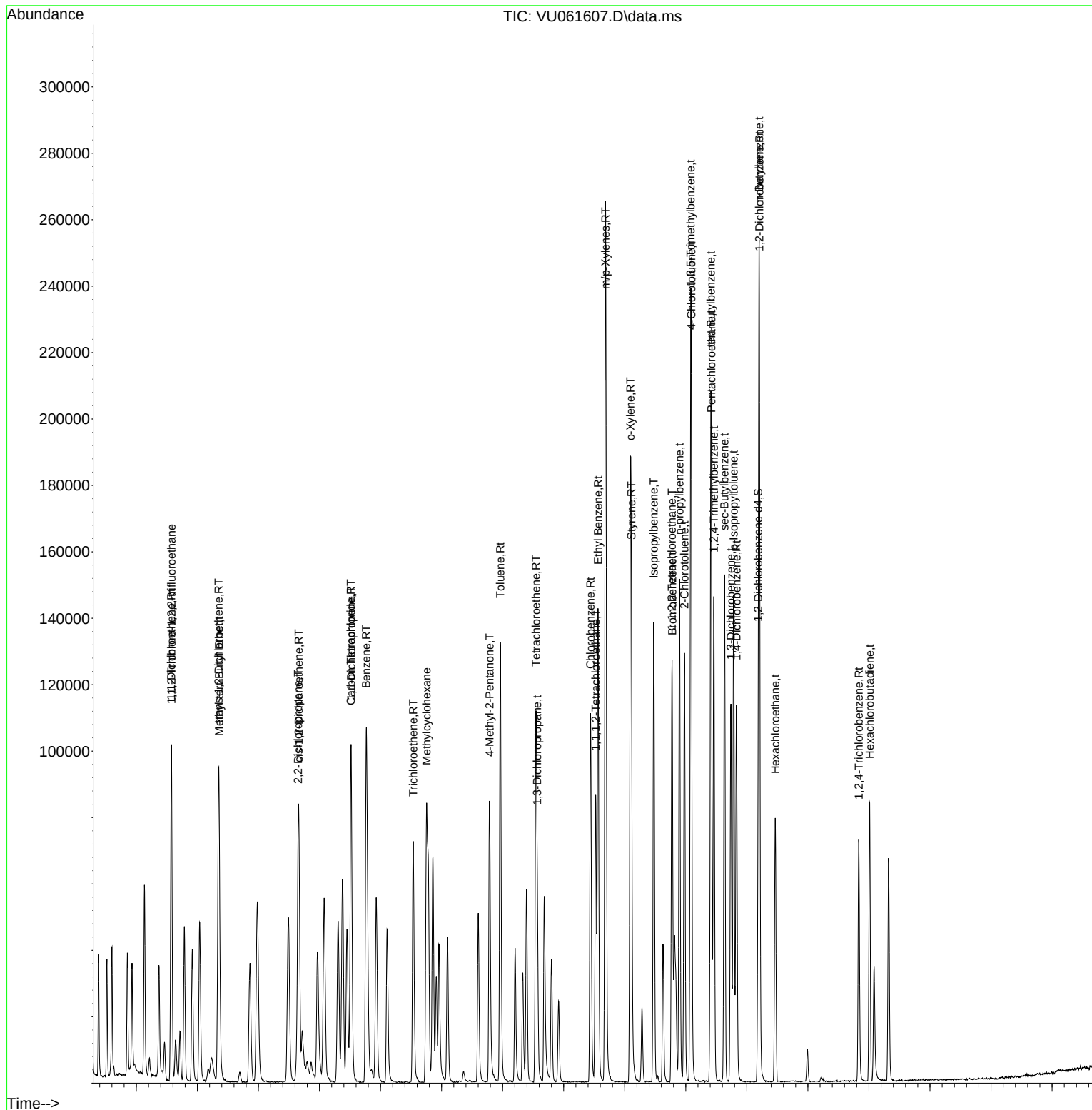
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Data File : VU061607.D
Acq On : 12 Nov 2024 17:24
Operator : MD/SY
Sample : VU1112WBS01
Misc : 25mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

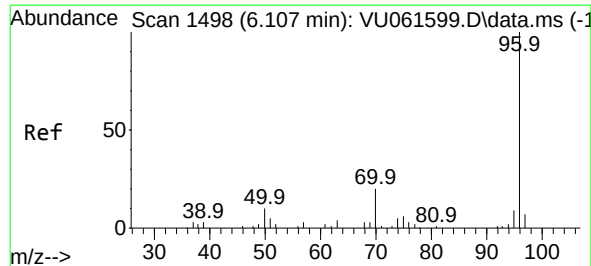
Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024
Supervised By : Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 05:08:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Nov 13 05:00:10 2024
Response via : Initial Calibration





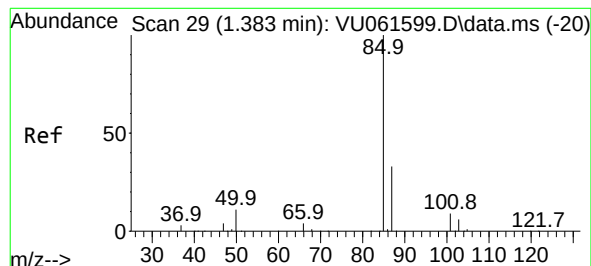
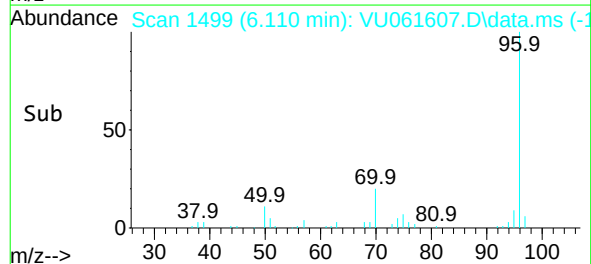
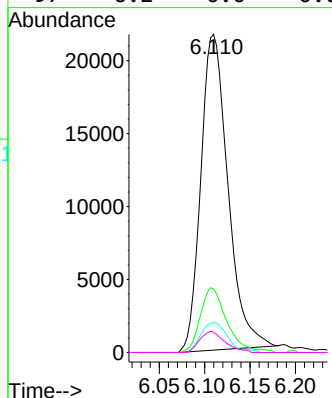
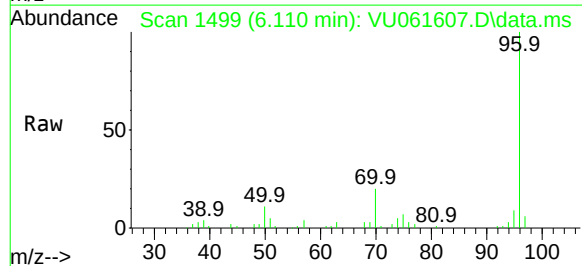
#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.110 min Scan# 1498
Delta R.T. 0.003 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Tgt Ion	Ratio	Lower	Upper
96	100		
70	20.0	15.8	23.6
95	9.3	7.3	10.9
97	6.2	0.0	0.0

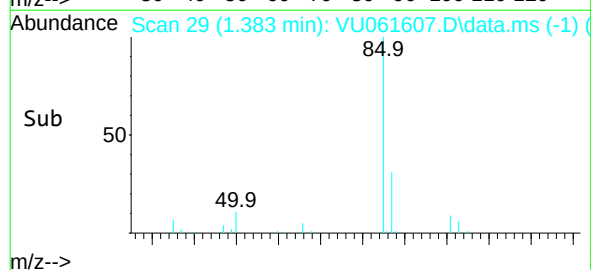
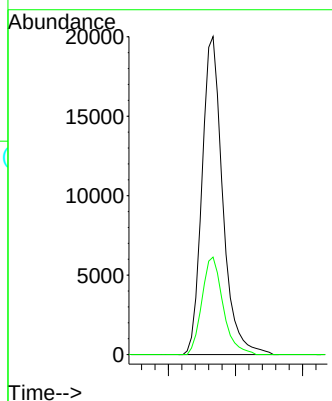
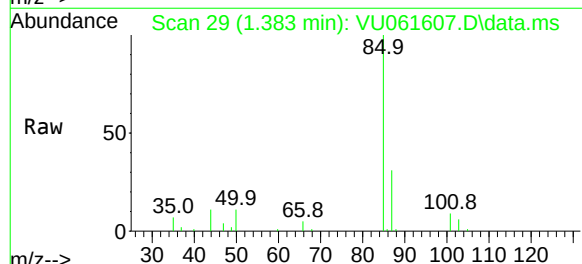
Manual Integrations
APPROVED

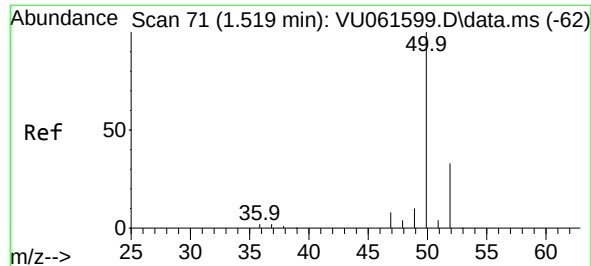
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#2
Dichlorodifluoromethane
Concen: 1.852 ug/l
RT: 1.383 min Scan# 29
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.7	16.4	49.2





#3

Chloromethane

Concen: 2.070 ug/l

RT: 1.518 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 50 Resp: 22902

Ion Ratio Lower Upper

50 100

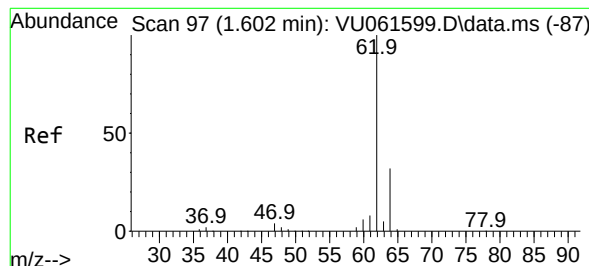
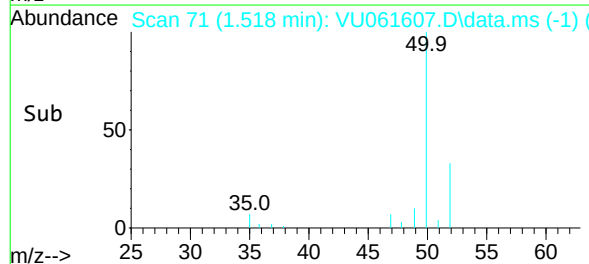
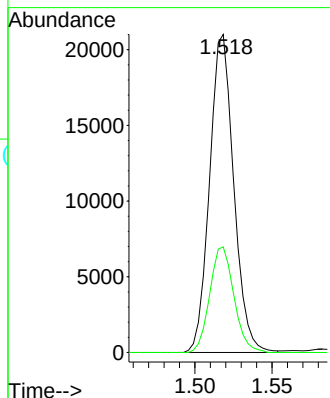
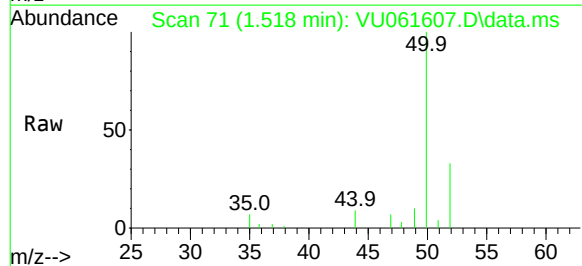
52 33.2 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 2.069 ug/l

RT: 1.599 min Scan# 96

Delta R.T. -0.003 min

Lab File: VU061607.D

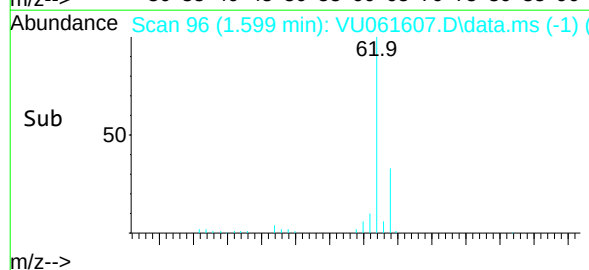
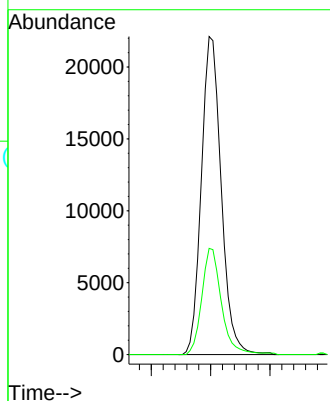
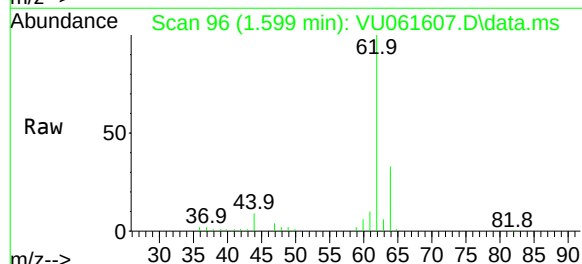
Acq: 12 Nov 2024 17:24

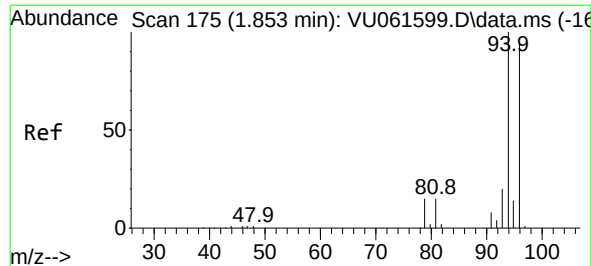
Tgt Ion: 62 Resp: 25754

Ion Ratio Lower Upper

62 100

64 33.4 25.6 38.4



#5
Bromomethane

Concen: 2.151 ug/l

RT: 1.853 min Scan# 175

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 94 Resp: 16906

Ion Ratio Lower Upper

94 100

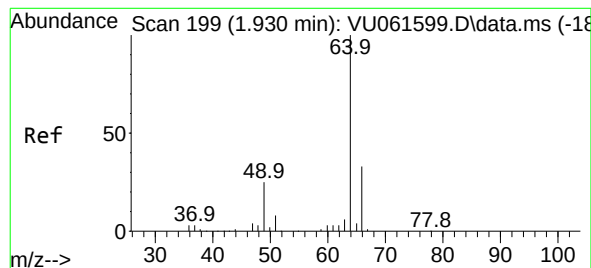
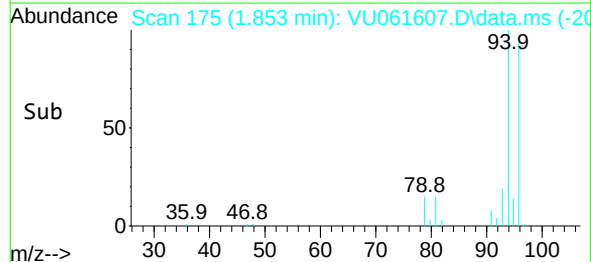
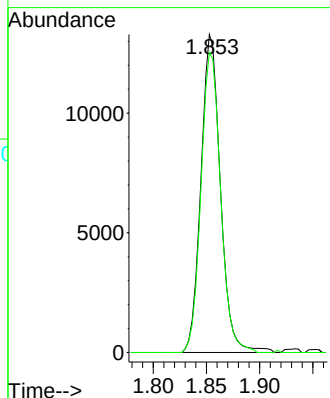
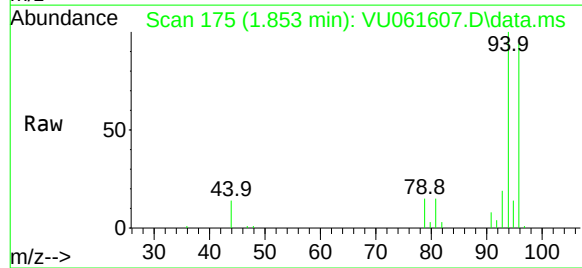
96 94.3 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#6

Chloroethane

Concen: 2.005 ug/l

RT: 1.930 min Scan# 199

Delta R.T. -0.000 min

Lab File: VU061607.D

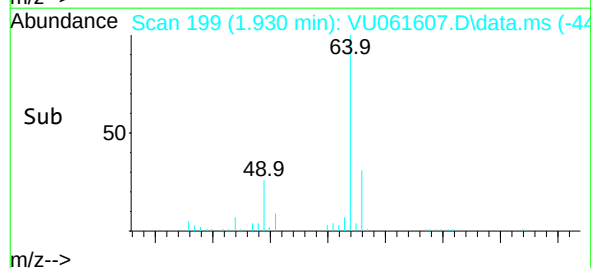
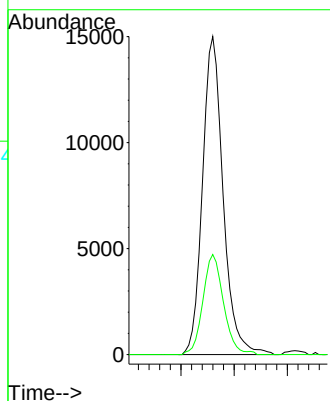
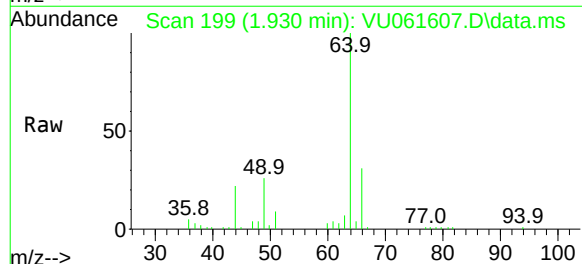
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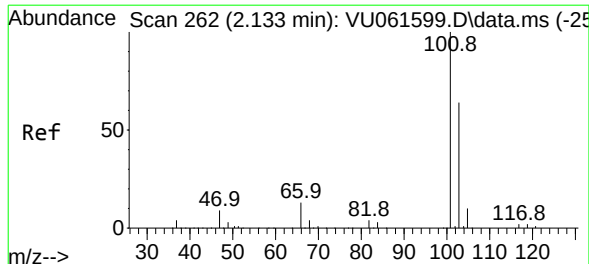
Tgt Ion: 64 Resp: 20187

Ion Ratio Lower Upper

64 100

66 31.5 26.2 39.2





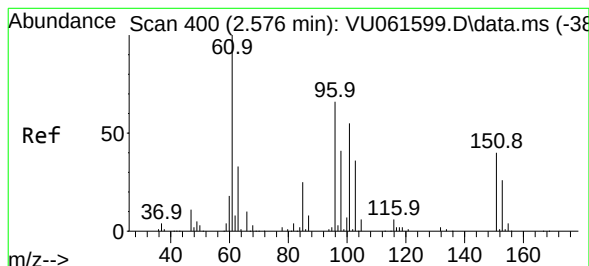
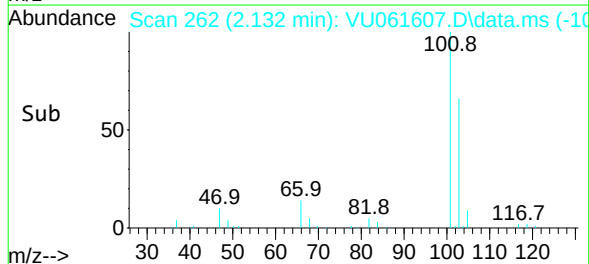
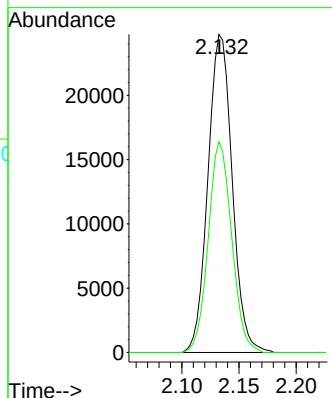
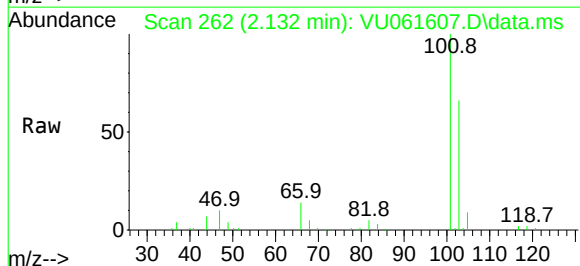
#7
Trichlorofluoromethane
Concen: 2.052 ug/l
RT: 2.132 min Scan# 262
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Tgt Ion:101 Resp: 36567
Ion Ratio Lower Upper
101 100
103 66.2 51.4 77.2

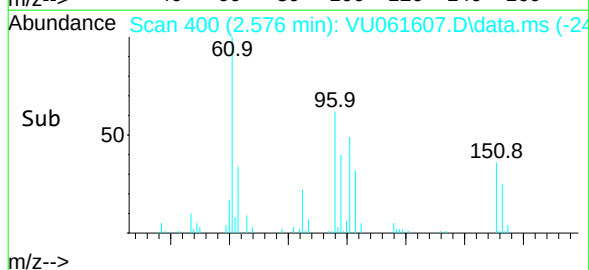
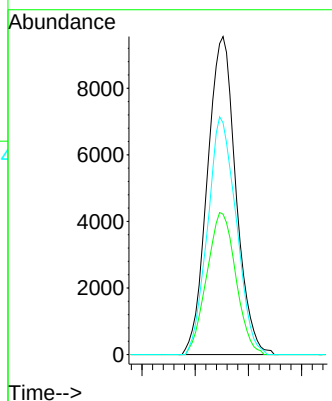
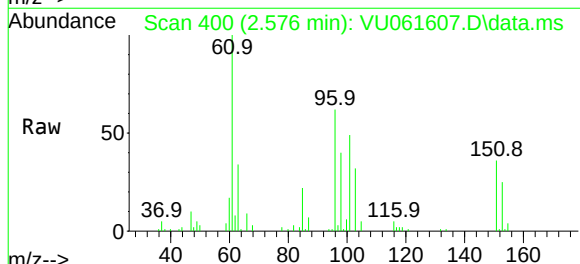
Manual Integrations
APPROVED

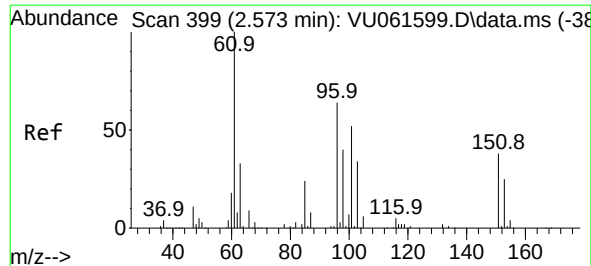
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.864 ug/l
RT: 2.576 min Scan# 400
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion:101 Resp: 17775
Ion Ratio Lower Upper
101 100
85 45.4 36.0 54.0
151 74.8 58.6 87.8





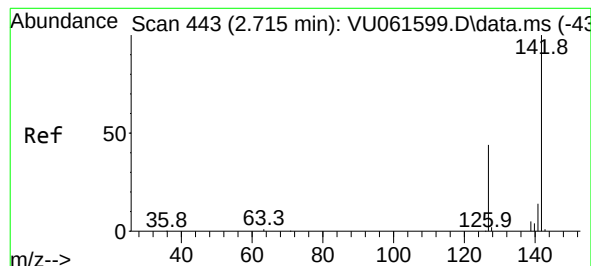
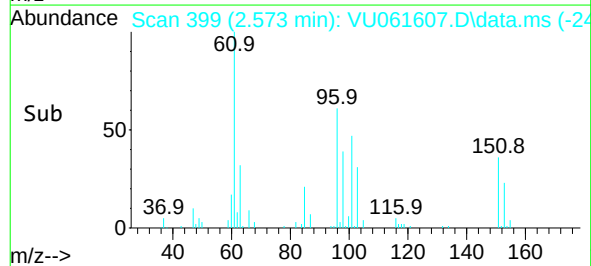
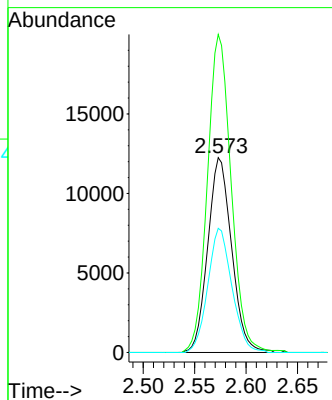
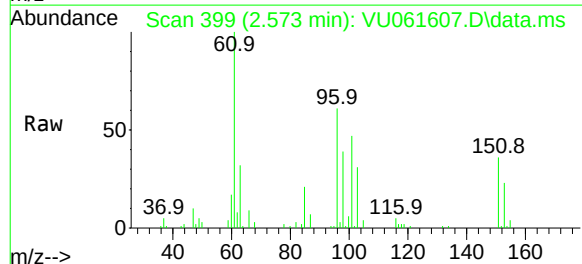
#9
1,1-Dichloroethene
Concen: 1.982 ug/l
RT: 2.573 min Scan# 399
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Tgt Ion: 96 Resp: 19800
Ion Ratio Lower Upper
96 100
61 163.2 0.0 467.7
98 63.7 0.0 125.4

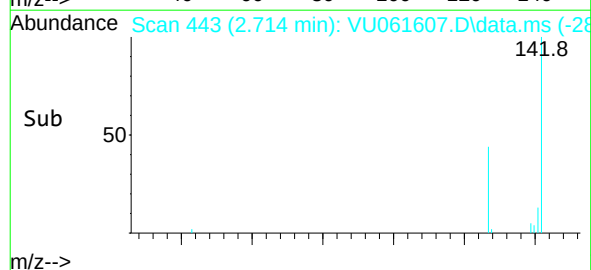
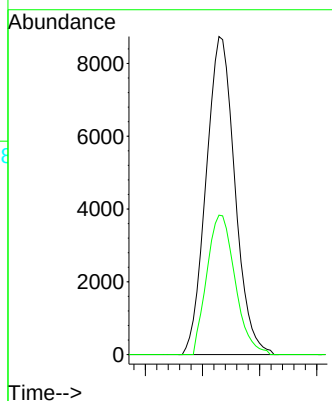
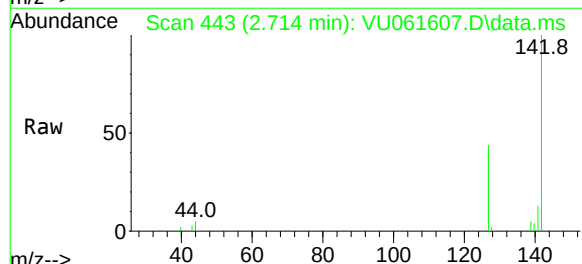
Manual Integrations
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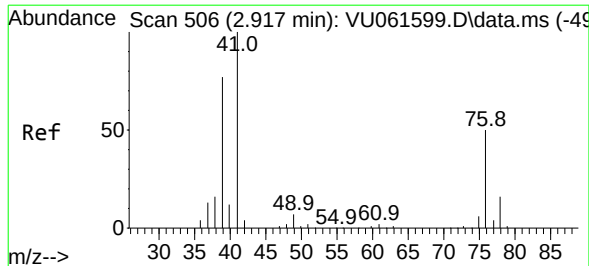
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#10
Iodomethane
Concen: 1.932 ug/l
RT: 2.714 min Scan# 443
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion:142 Resp: 15292
Ion Ratio Lower Upper
142 100
127 43.0 34.8 52.2





#11

Allyl Chloride

Concen: 1.953 ug/l

RT: 2.917 min Scan# 506

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 41 Resp: 22576

Ion Ratio Lower Upper

41 100

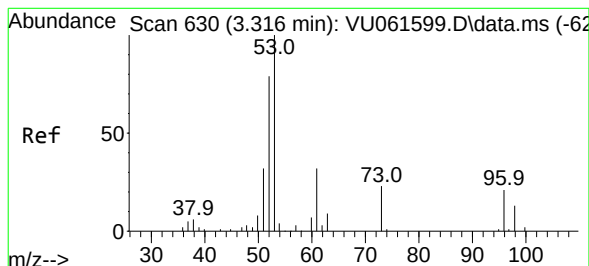
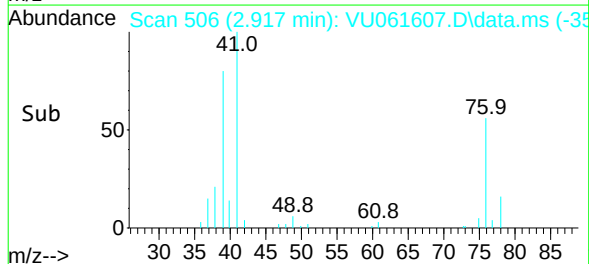
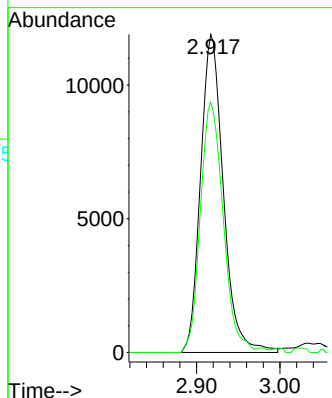
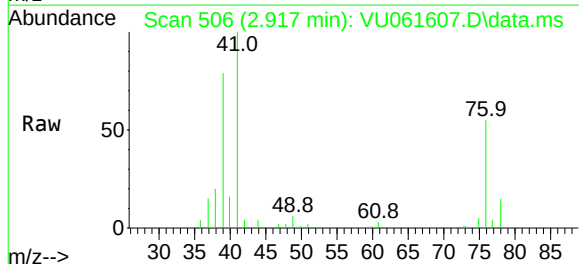
39 78.8 62.2 93.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#12

Acrylonitrile

Concen: 4.149 ug/l m

RT: 3.325 min Scan# 633

Delta R.T. 0.009 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

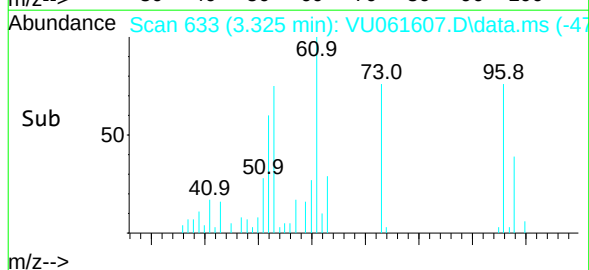
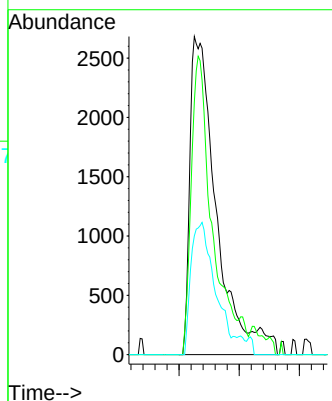
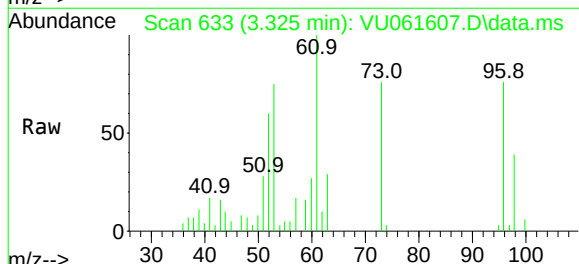
Tgt Ion: 53 Resp: 8199

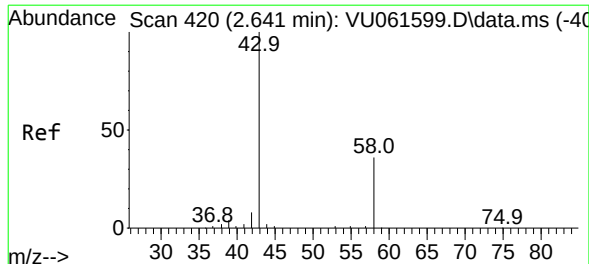
Ion Ratio Lower Upper

53 100

52 72.3 62.1 93.1

51 37.7 30.9 46.3





#13

Acetone

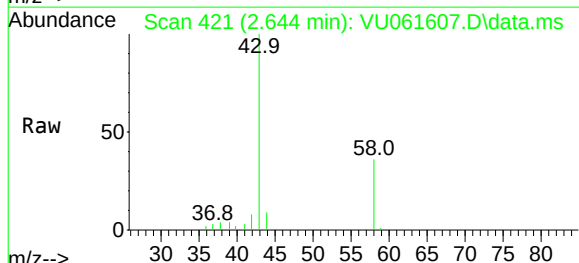
Concen: 6.364 ug/l

RT: 2.644 min Scan# 421

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24



Tgt Ion: 43 Resp: 17554

Ion Ratio Lower Upper

43 100

58 35.9 28.5 42.7

Instrument :

MSVOA_U

ClientSampleId :

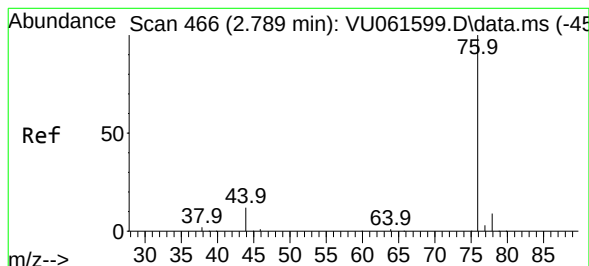
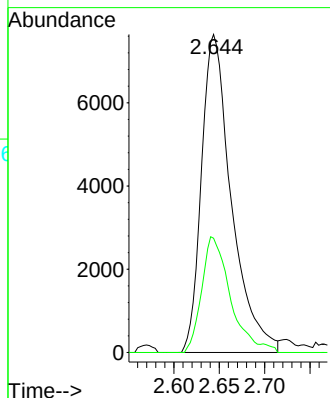
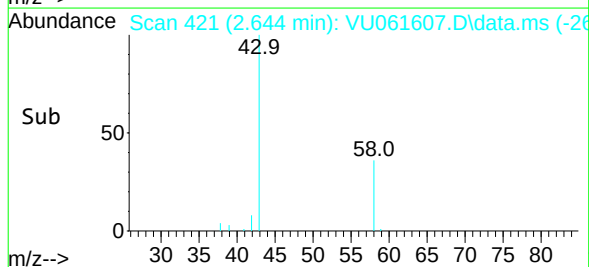
VU1112WBS01

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#14

Carbon Disulfide

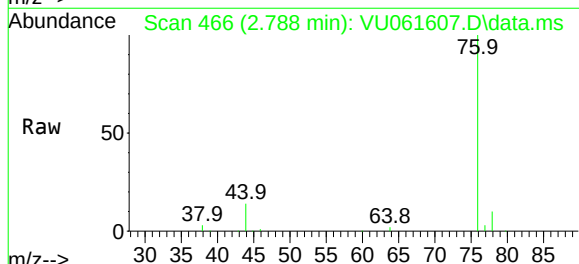
Concen: 1.927 ug/l

RT: 2.788 min Scan# 466

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

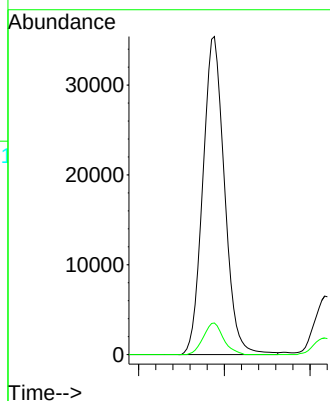
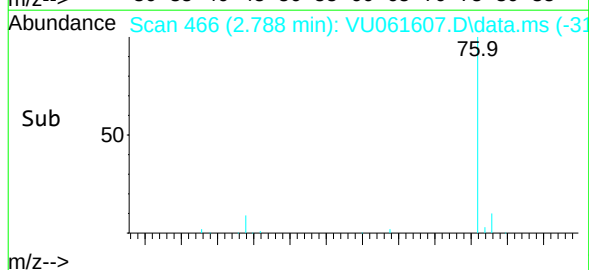


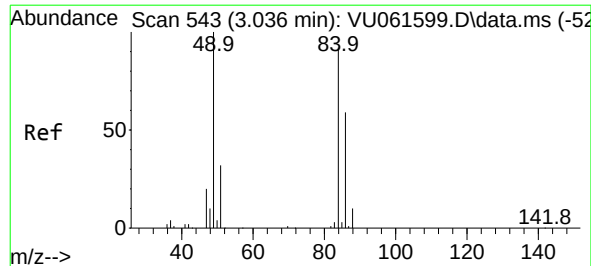
Tgt Ion: 76 Resp: 62203

Ion Ratio Lower Upper

76 100

78 9.9 7.3 10.9





#15

Methylene Chloride

Concen: 2.069 ug/l

RT: 3.039 min Scan# 54

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 84 Resp: 24974

Ion Ratio Lower Upper

84 100

49 111.1 87.4 131.0

51 35.2 0.0 69.6

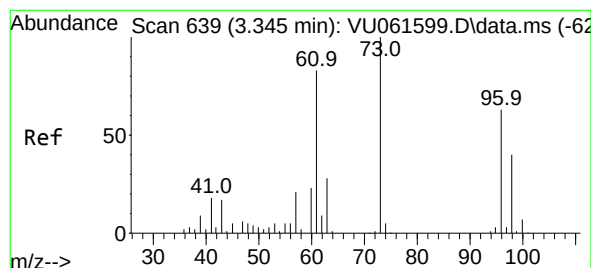
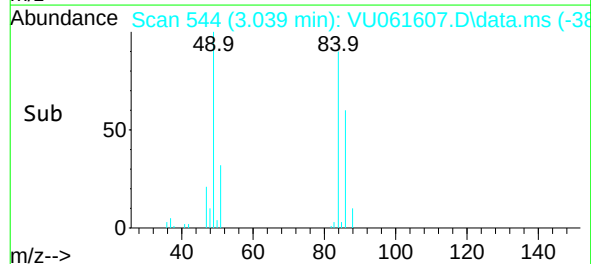
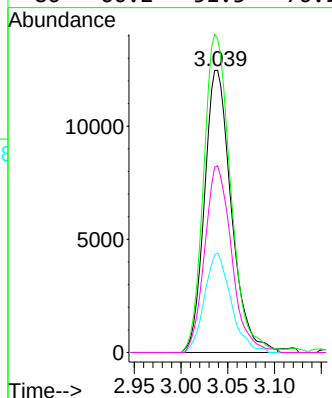
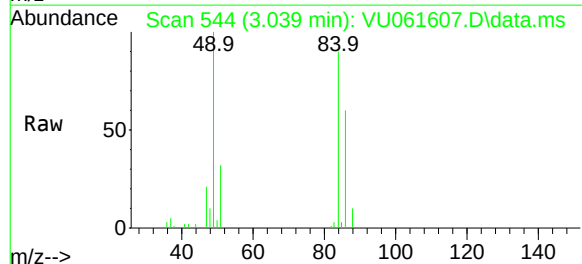
86 66.2 51.3 76.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#16

trans-1,2-Dichloroethene

Concen: 2.066 ug/l

RT: 3.348 min Scan# 640

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

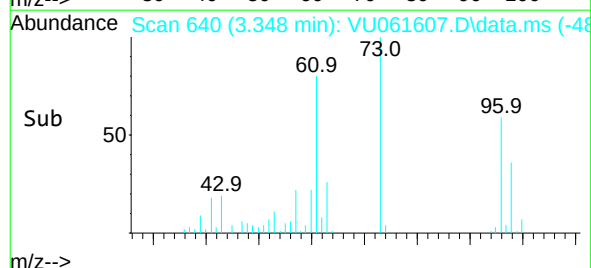
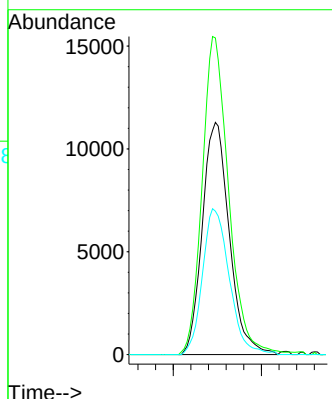
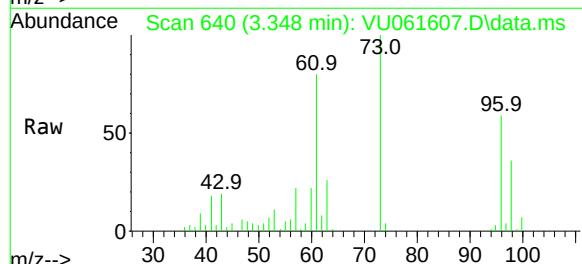
Tgt Ion: 96 Resp: 23981

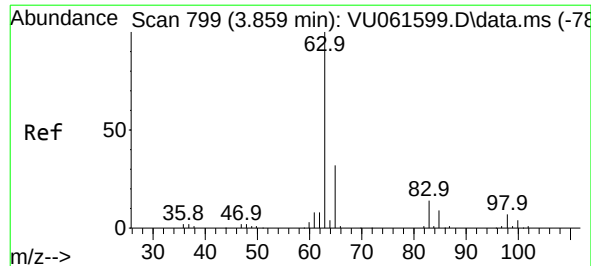
Ion Ratio Lower Upper

96 100

61 136.3 105.0 157.4

98 61.7 50.4 75.6





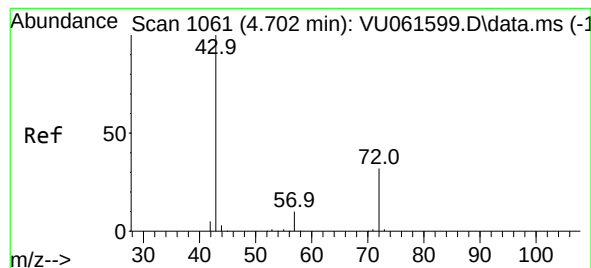
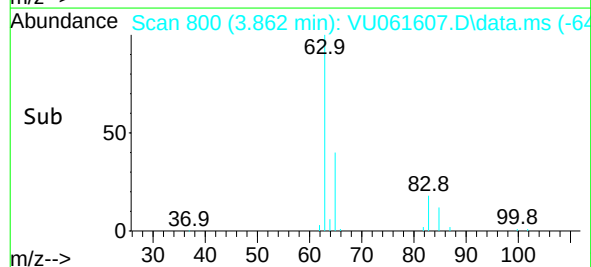
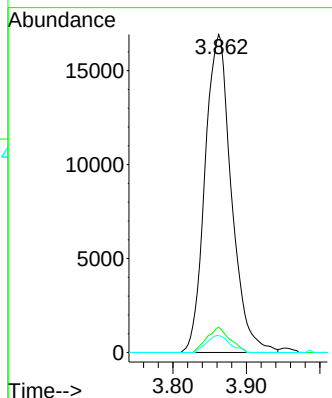
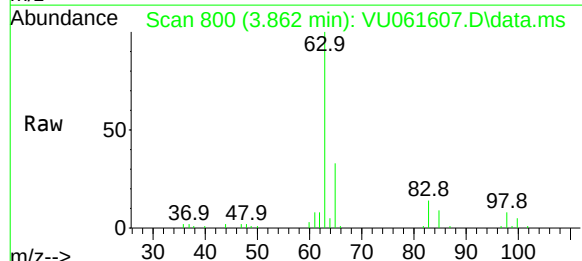
#17
1,1-Dichloroethane
Concen: 2.042 ug/l
RT: 3.862 min Scan# 800
Delta R.T. 0.003 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Tgt Ion: 63 Resp: 42262
Ion Ratio Lower Upper
63 100
98 7.9 3.4 10.2
100 5.3 2.2 6.6

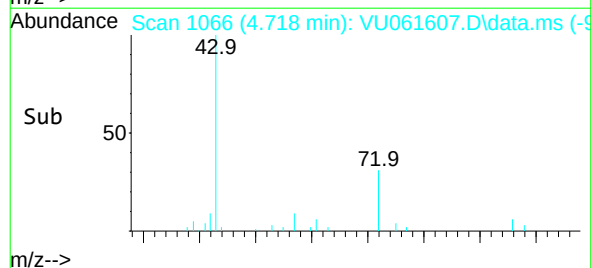
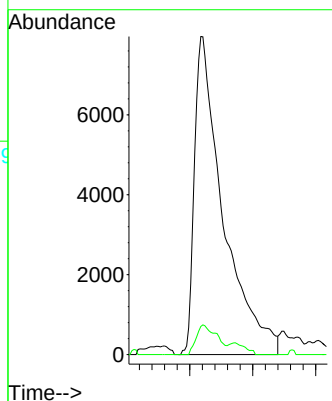
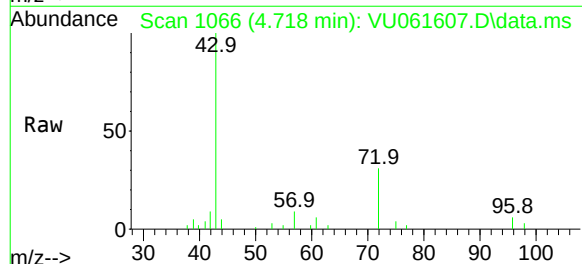
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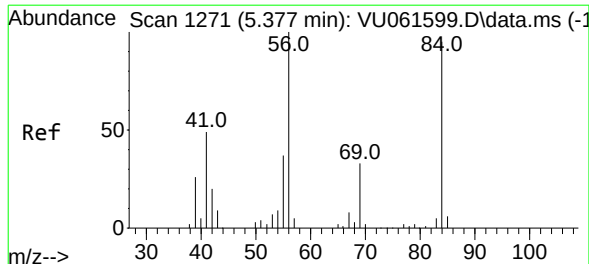
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#18
2-Butanone
Concen: 7.882 ug/l
RT: 4.718 min Scan# 1066
Delta R.T. 0.016 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion: 43 Resp: 25210
Ion Ratio Lower Upper
43 100
57 8.8 0.0 20.0





#19

Cyclohexane

Concen: 1.790 ug/l m

RT: 5.377 min Scan# 12

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 56 Resp: 30065

Ion Ratio Lower Upper

56 100

69 33.0 26.3 39.5

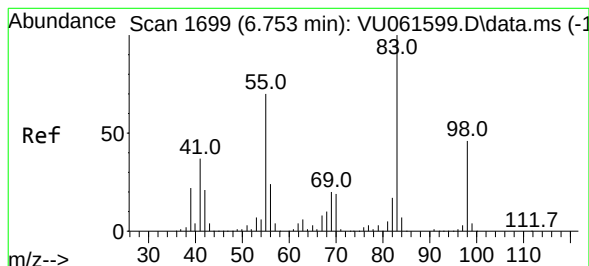
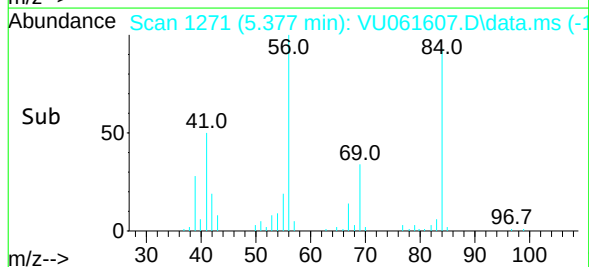
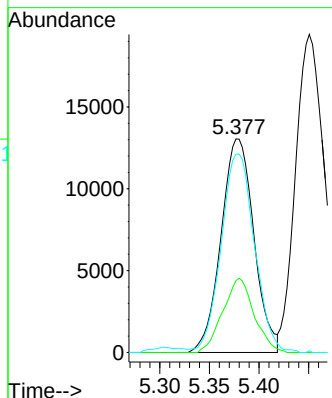
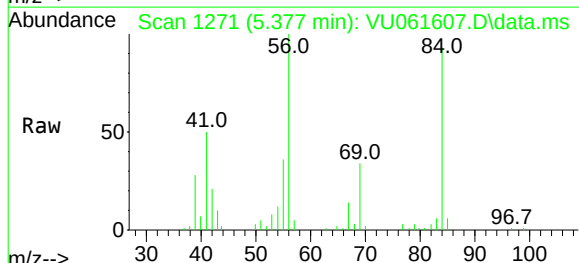
84 92.3 73.4 110.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#20

Methylcyclohexane

Concen: 1.699 ug/l

RT: 6.753 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

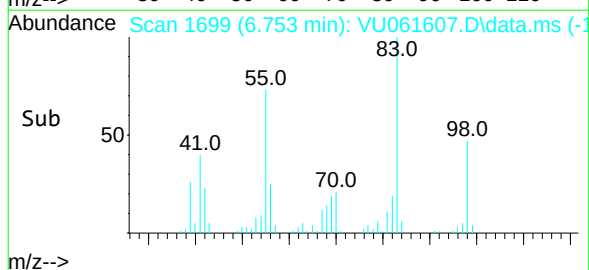
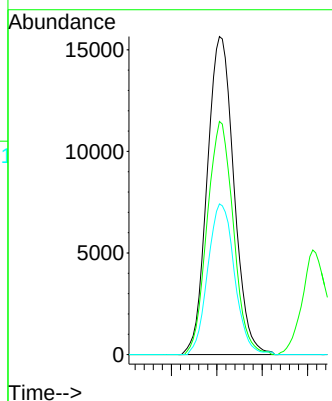
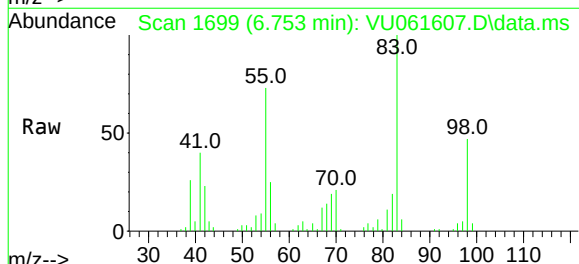
Tgt Ion: 83 Resp: 32003

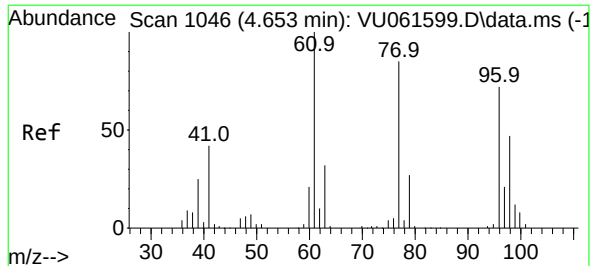
Ion Ratio Lower Upper

83 100

55 71.9 55.5 83.3

98 47.3 36.8 55.2





#21

2,2-Dichloropropane

Concen: 1.825 ug/l

RT: 4.650 min Scan# 1045

Delta R.T. -0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 77 Resp: 30388

Ion Ratio Lower Upper

77 100

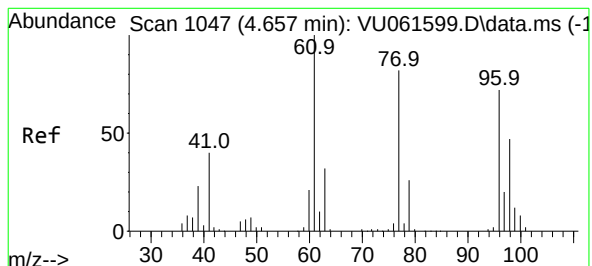
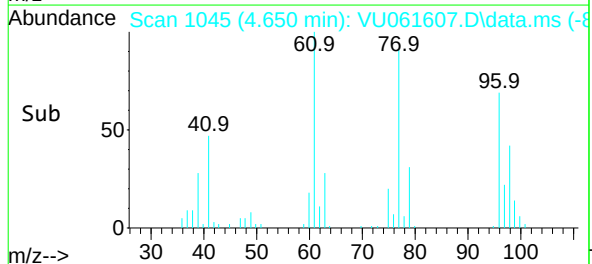
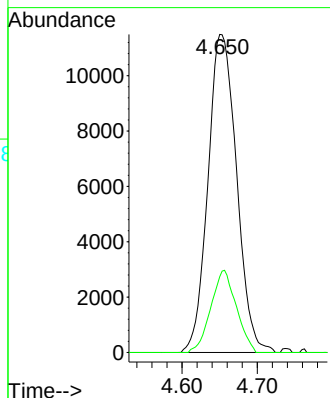
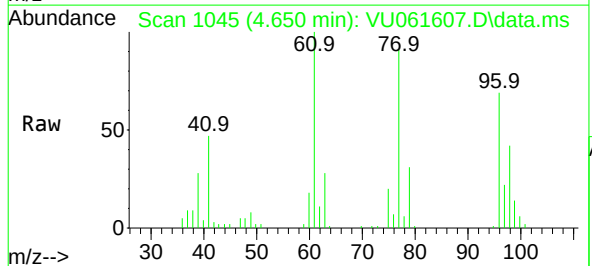
97 23.0 18.6 28.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#22

cis-1,2-Dichloroethene

Concen: 2.088 ug/l

RT: 4.660 min Scan# 1048

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

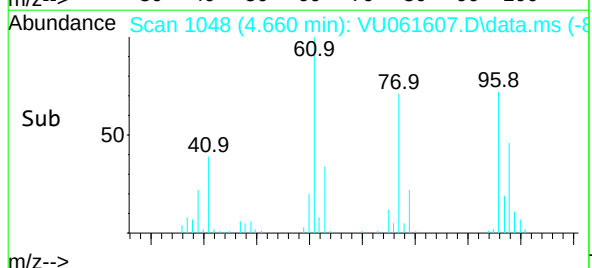
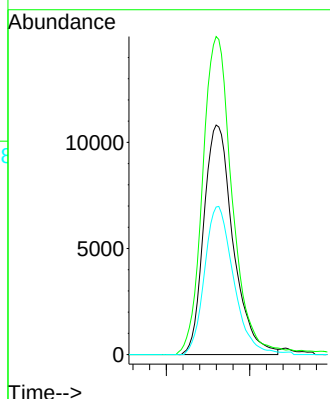
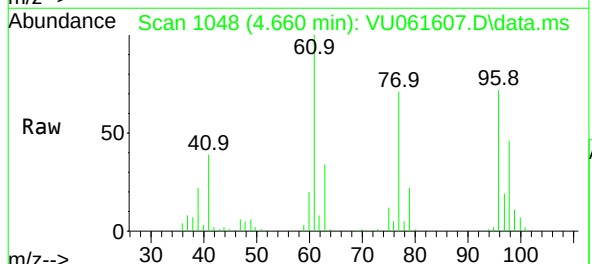
Tgt Ion: 96 Resp: 26433

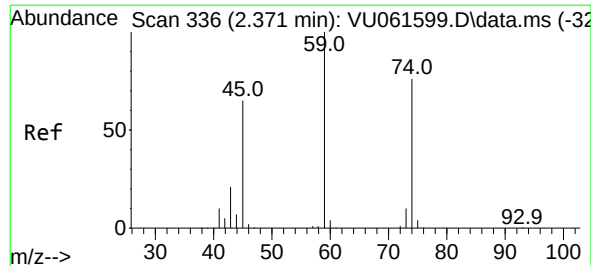
Ion Ratio Lower Upper

96 100

61 140.0 0.0 349.5

98 63.8 32.5 97.5





#23

Diethyl Ether

Concen: 2.091 ug/l

RT: 2.370 min Scan# 336

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

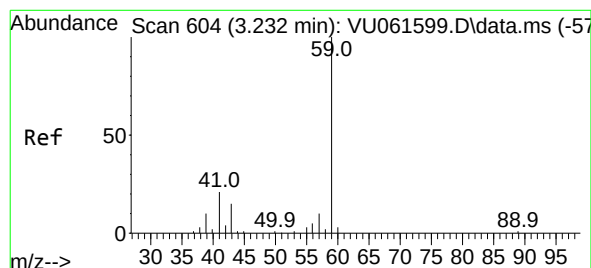
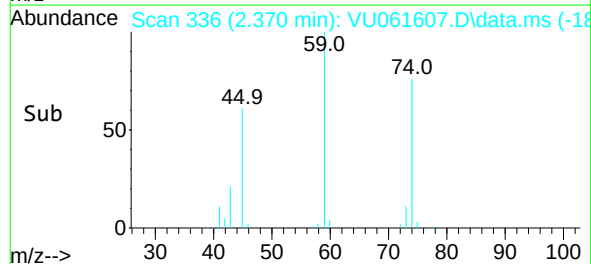
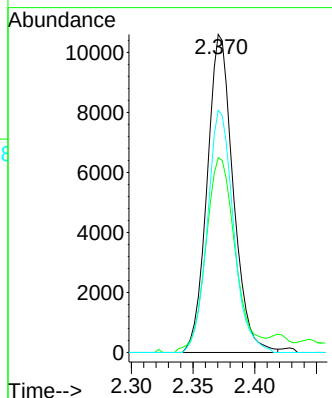
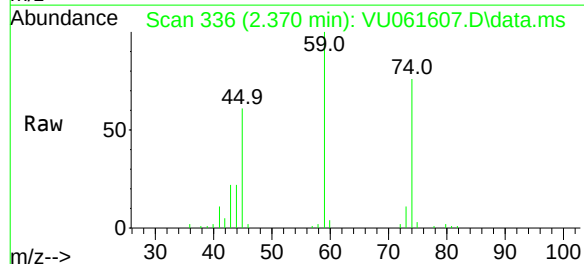
ClientSampleId :

VU1112WBS01

Tgt	Ion	59	Resp:	15575
Ion	Ratio	Lower	Upper	
59	100			
45	69.3	53.8	80.6	
74	76.3	62.1	93.1	

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#24

tert-Butyl Alcohol

Concen: 21.167 ug/l m

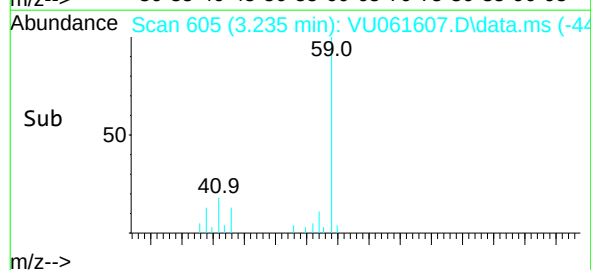
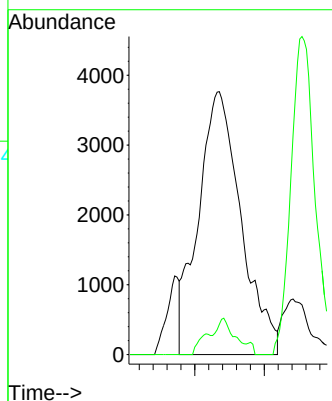
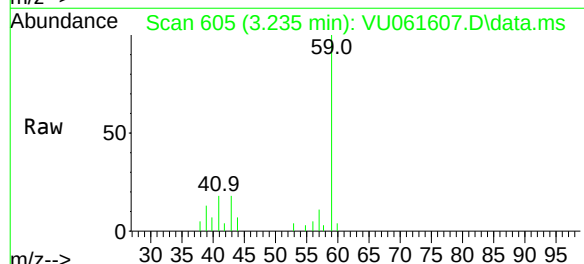
RT: 3.235 min Scan# 605

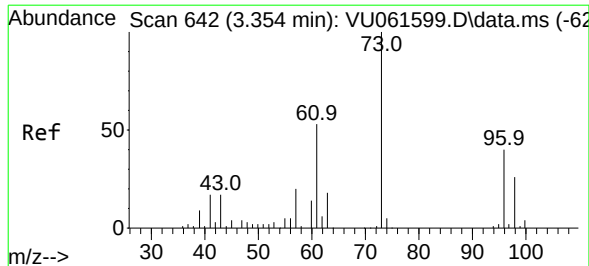
Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt	Ion	59	Resp:	16076
Ion	Ratio	Lower	Upper	
59	100			
57	3.7	7.9	11.9	





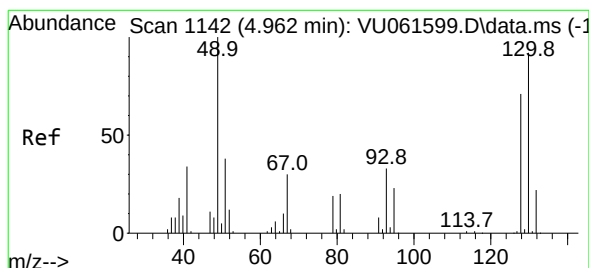
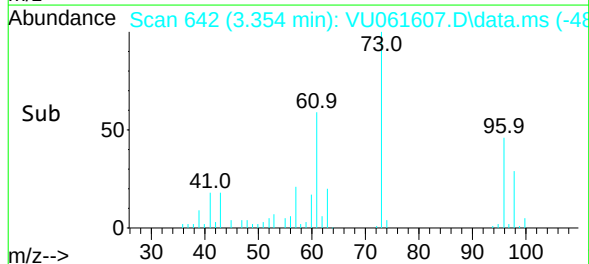
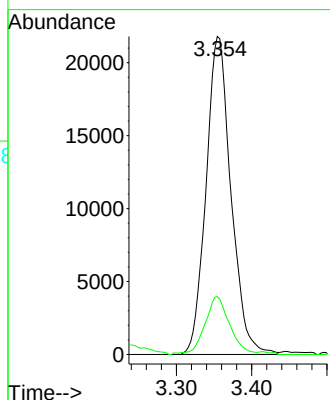
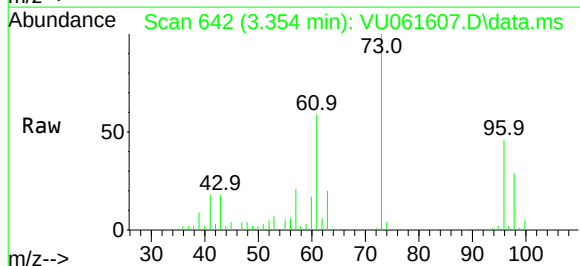
#25
Methyl tert-Butyl Ether
Concen: 2.048 ug/l
RT: 3.354 min Scan# 64
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Tgt Ion: 73 Resp: 50154
Ion Ratio Lower Upper
73 100
43 18.1 14.2 21.2

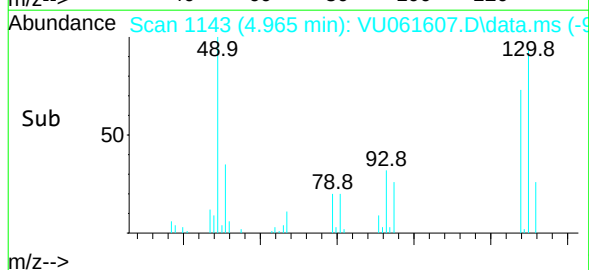
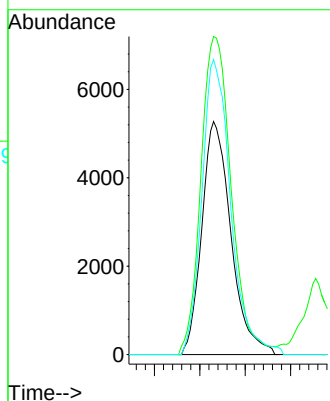
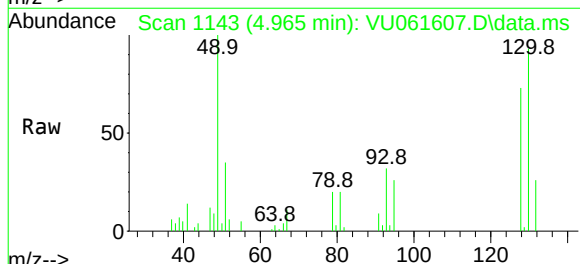
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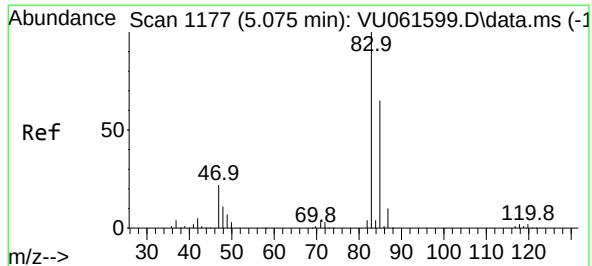
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#26
Bromochloromethane
Concen: 2.108 ug/l
RT: 4.965 min Scan# 1143
Delta R.T. 0.003 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion:128 Resp: 11762
Ion Ratio Lower Upper
128 100
49 142.2 0.0 288.8
130 125.5 103.6 155.4





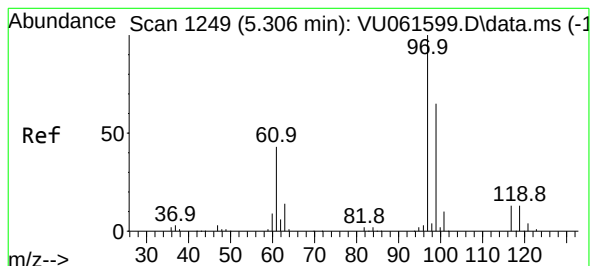
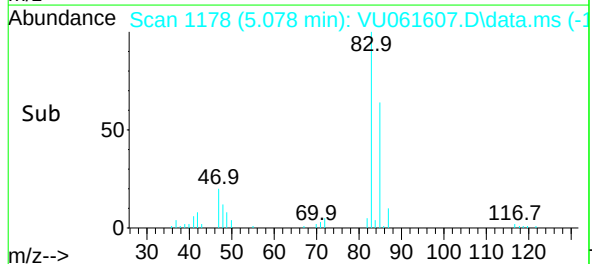
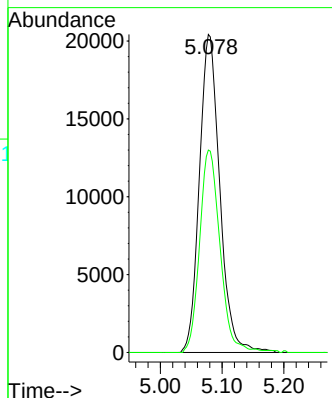
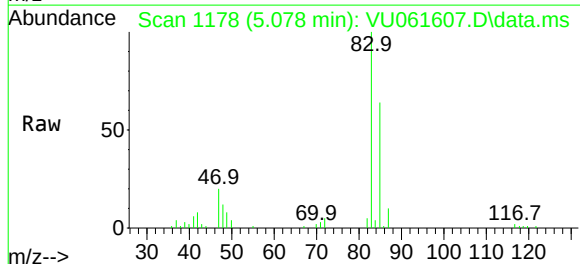
#27
Chloroform
Concen: 2.139 ug/l
RT: 5.078 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Tgt Ion: 83 Resp: 46953
Ion Ratio Lower Upper
83 100
85 63.7 0.0 130.6

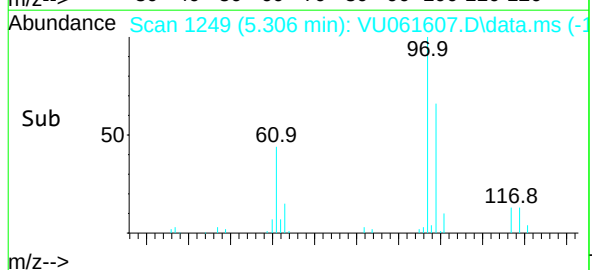
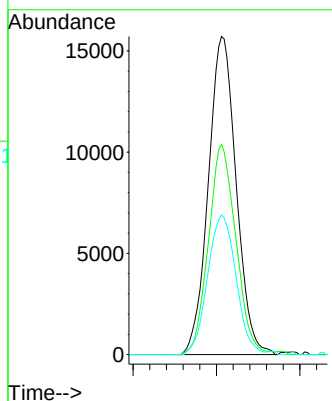
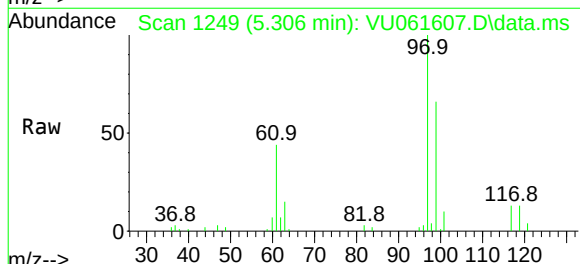
Manual Integrations
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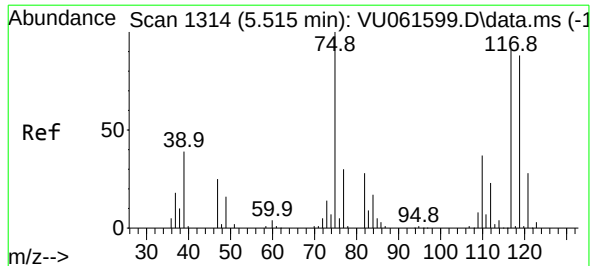
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#28
1,1,1-Trichloroethane
Concen: 2.009 ug/l
RT: 5.306 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion: 97 Resp: 36444
Ion Ratio Lower Upper
97 100
99 65.0 32.1 96.5
61 44.7 21.7 65.1





#29

1,1-Dichloropropene

Concen: 1.971 ug/l

RT: 5.518 min Scan# 1315

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 75 Resp: 32123

Ion Ratio Lower Upper

75 100

110 34.7 17.9 53.8

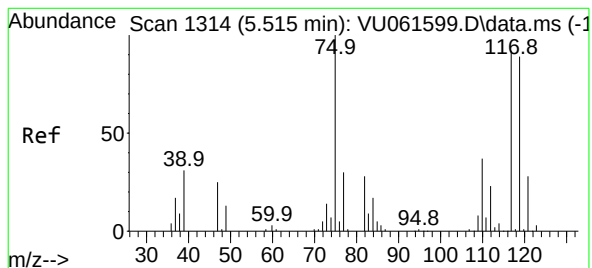
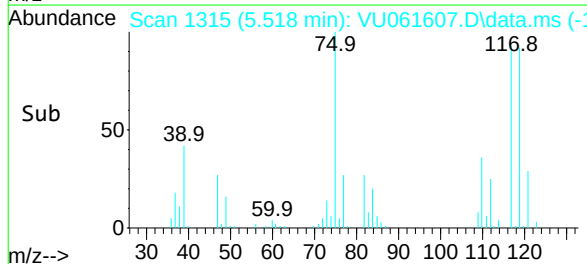
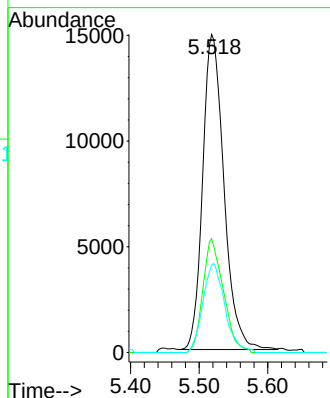
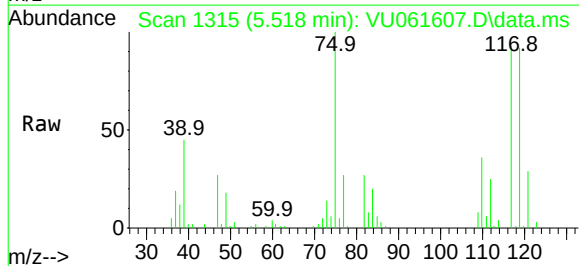
77 29.1 24.8 37.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 2.029 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

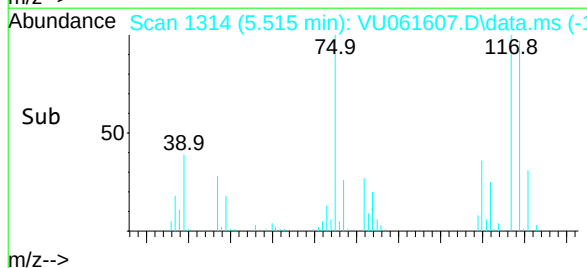
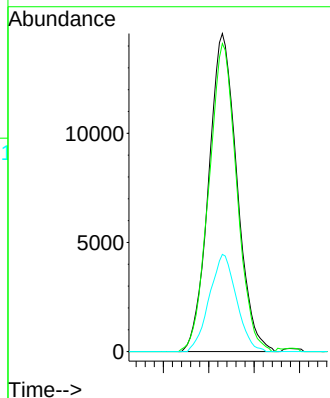
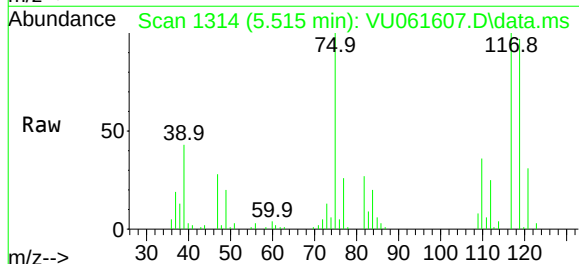
Tgt Ion:117 Resp: 31546

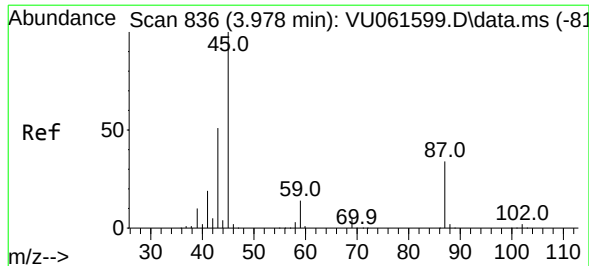
Ion Ratio Lower Upper

117 100

119 96.8 77.4 116.0

121 30.6 24.5 36.7





#31

Isopropyl Ether

Concen: 1.976 ug/l

RT: 3.984 min Scan# 83

Delta R.T. 0.006 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 45 Resp: 54426

Ion Ratio Lower Upper

45 100

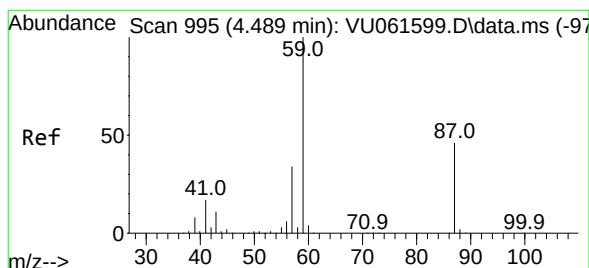
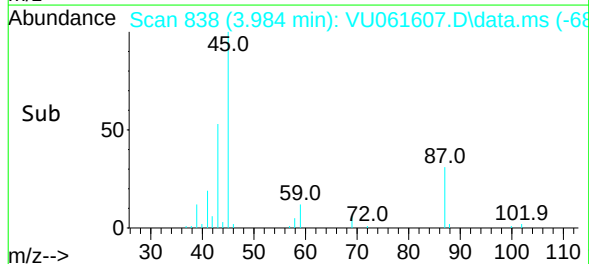
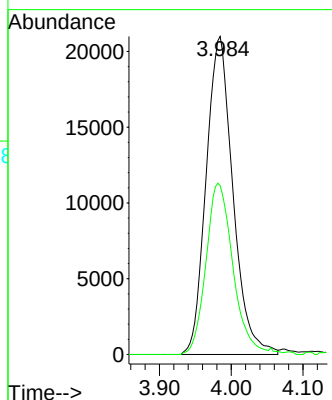
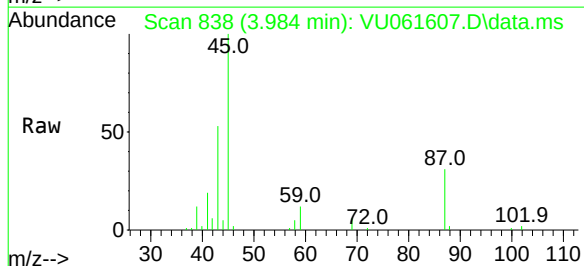
43 54.0 25.8 77.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#32

Ethyl-t-butyl ether

Concen: 1.964 ug/l

RT: 4.492 min Scan# 996

Delta R.T. 0.003 min

Lab File: VU061607.D

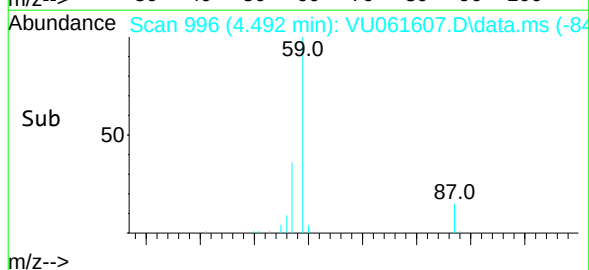
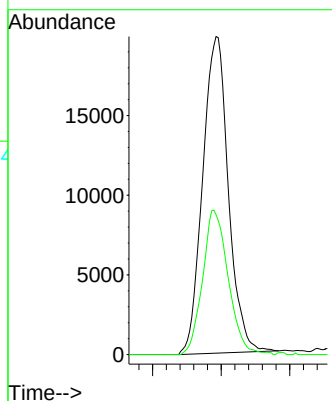
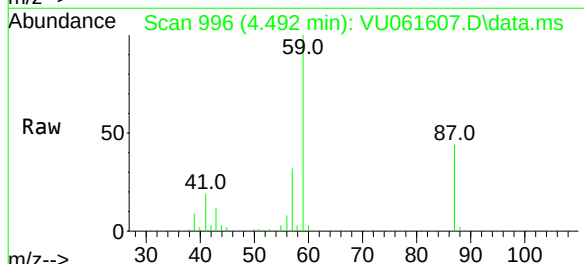
Acq: 12 Nov 2024 17:24

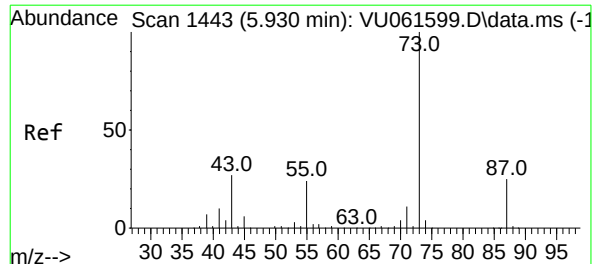
Tgt Ion: 59 Resp: 51702

Ion Ratio Lower Upper

59 100

87 45.6 35.5 53.3





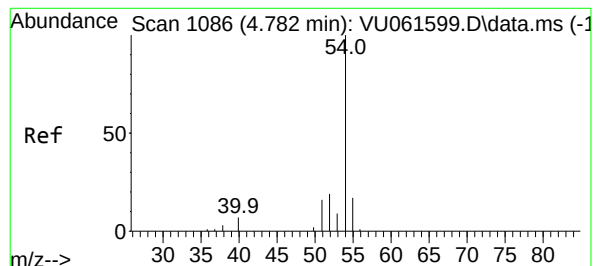
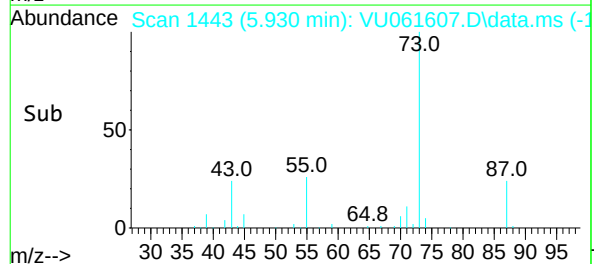
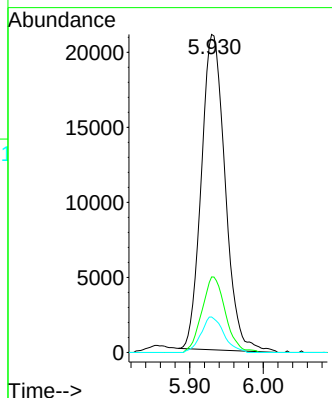
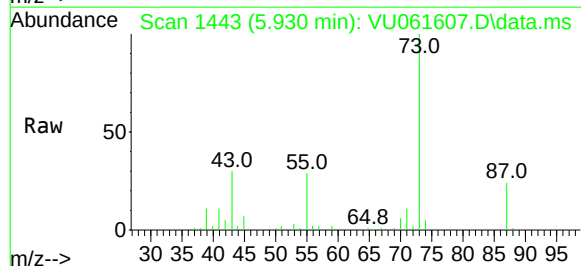
#33
Tert-Amyl methyl ether
Concen: 1.984 ug/l
RT: 5.930 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Tgt Ion: 73 Resp: 47222
Ion Ratio Lower Upper
73 100
87 23.7 19.8 29.6
71 10.8 9.0 13.4

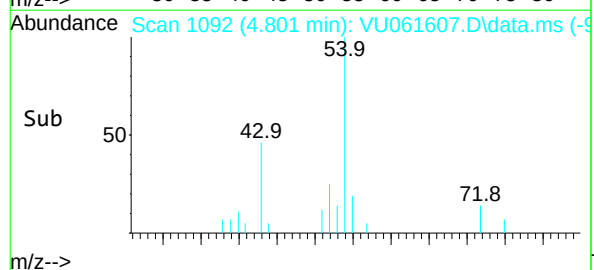
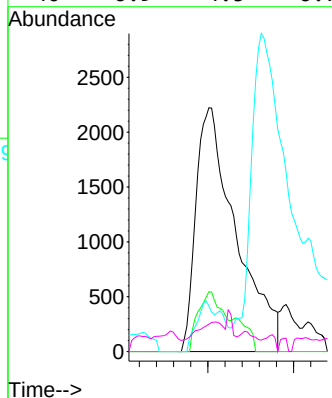
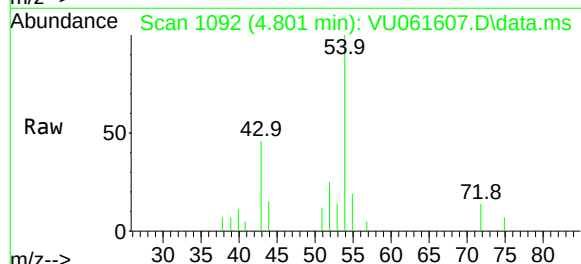
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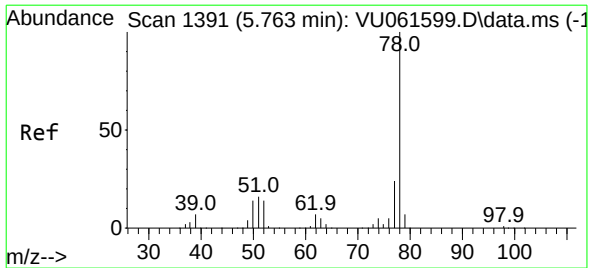
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#34
Propionitrile
Concen: 9.377 ug/l
RT: 4.801 min Scan# 1092
Delta R.T. 0.019 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion: 54 Resp: 7202
Ion Ratio Lower Upper
54 100
52 15.6 15.8 23.8#
55 8.5 10.7 16.1#
40 6.9 4.5 6.7#





#35

Benzene

Concen: 2.060 ug/l

RT: 5.766 min Scan# 1391

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion: 78 Resp: 100057

Ion Ratio Lower Upper

78 100

77 25.2 19.6 29.4

Instrument :

MSVOA_U

ClientSampleId :

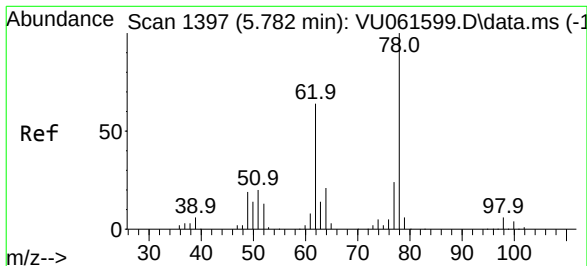
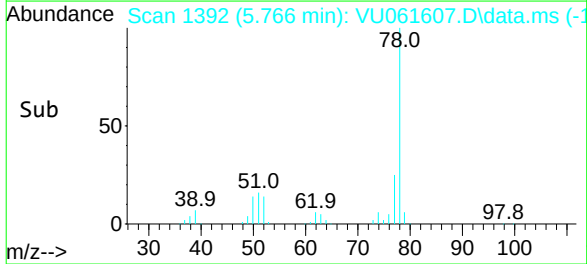
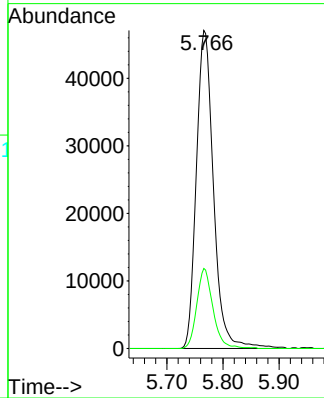
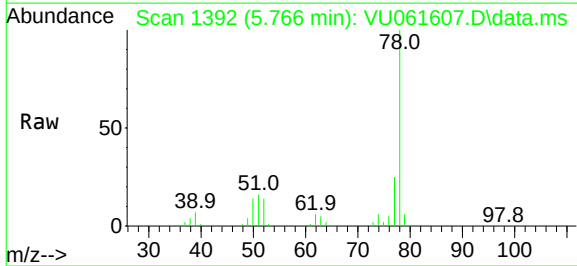
VU1112WBS01

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Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#36

1,2-Dichloroethane

Concen: 2.104 ug/l

RT: 5.788 min Scan# 1399

Delta R.T. 0.006 min

Lab File: VU061607.D

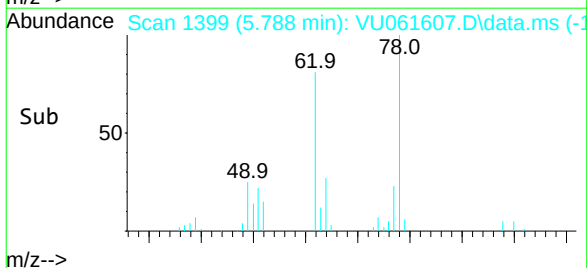
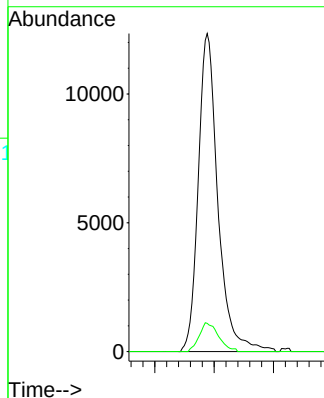
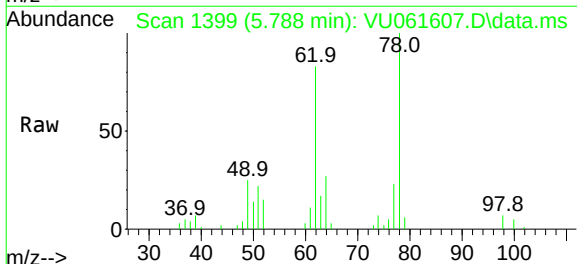
Acq: 12 Nov 2024 17:24

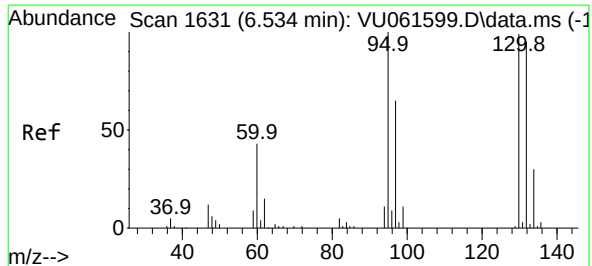
Tgt Ion: 62 Resp: 28403

Ion Ratio Lower Upper

62 100

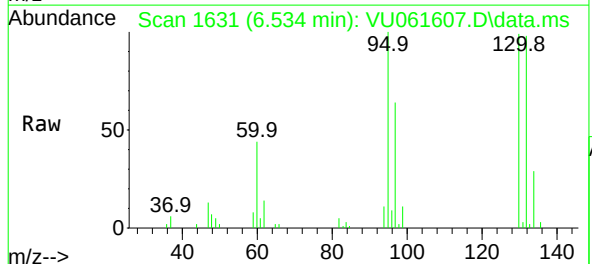
98 8.9 7.4 11.0





#37
Trichloroethene
Concen: 1.972 ug/l
RT: 6.534 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

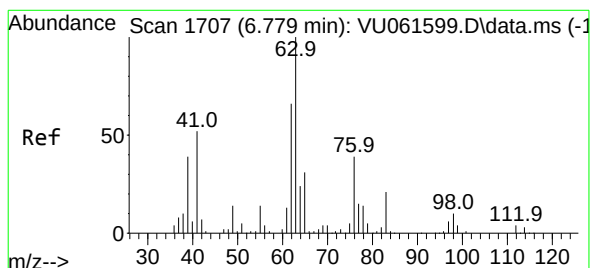
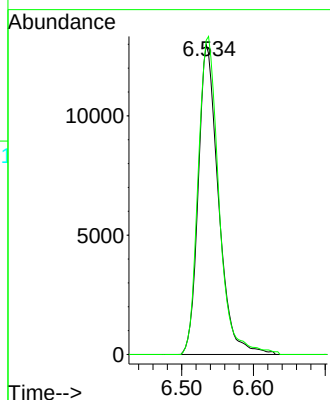
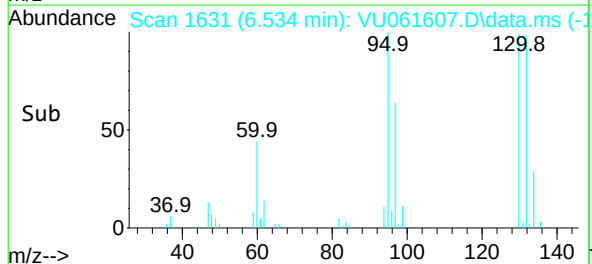
Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01



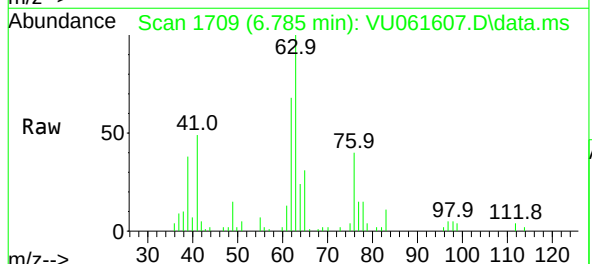
Tgt Ion: 130 Resp: 25365
Ion Ratio Lower Upper
130 100
95 101.5 80.6 120.8

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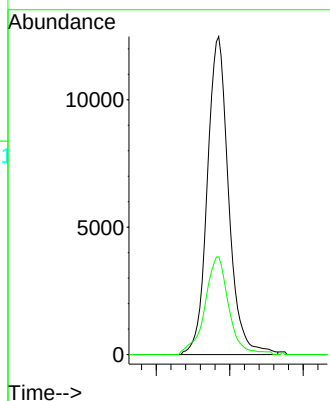
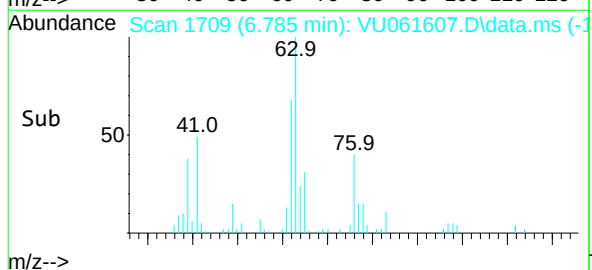
Reviewed By : Semsettin Yesilyurt 11/13/2024
Supervised By : Mahesh Dadoda 11/13/2024

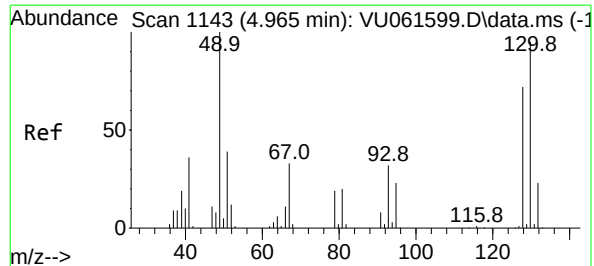


#38
1,2-Dichloropropane
Concen: 2.064 ug/l
RT: 6.785 min Scan# 1709
Delta R.T. 0.006 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24



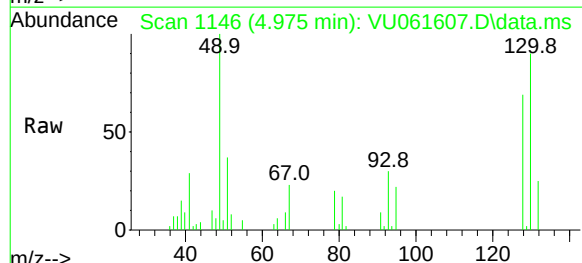
Tgt Ion: 63 Resp: 25175
Ion Ratio Lower Upper
63 100
65 30.7 25.3 37.9





#39
Methacrylonitrile
Concen: 1.986 ug/l
RT: 4.975 min Scan# 1111
Delta R.T. 0.009 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

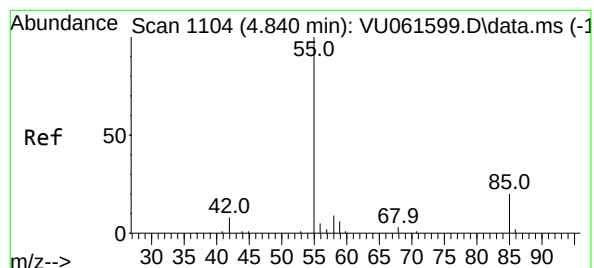
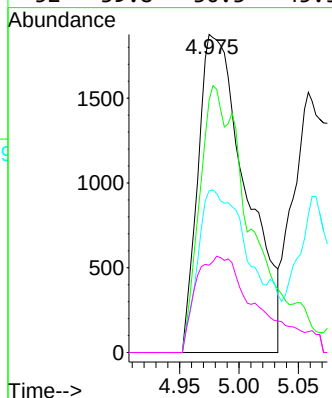
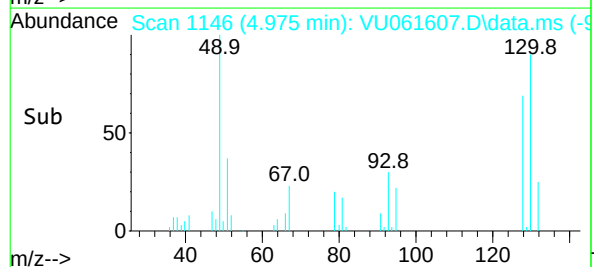
Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01



Tgt Ion	Ratio	Lower	Upper
41	100		
67	87.2	77.6	116.4
39	52.5	43.9	65.9
52	39.8	30.3	45.5

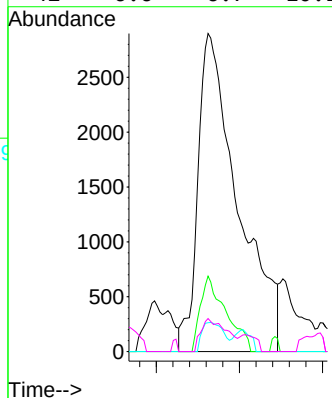
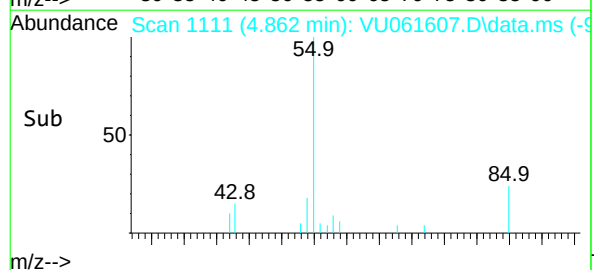
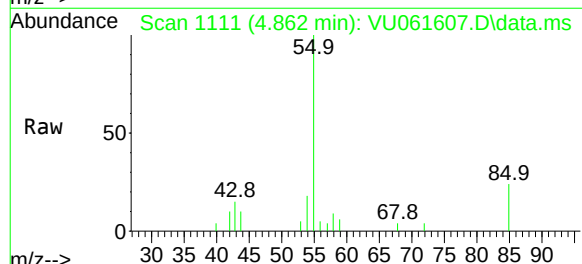
Manual Integrations APPROVED

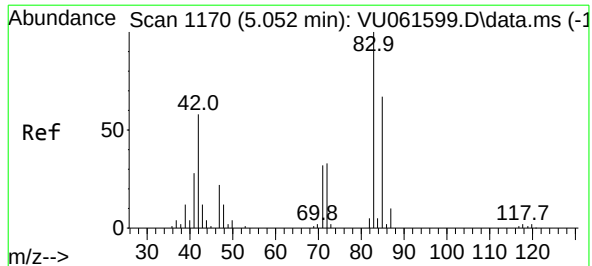
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#40
Methyl acrylate
Concen: 1.972 ug/l m
RT: 4.862 min Scan# 1111
Delta R.T. 0.022 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion	Ratio	Lower	Upper
55	100		
85	15.2	16.5	24.7#
58	4.9	7.6	11.4#
42	6.6	6.7	10.1#





#41

Tetrahydrofuran

Concen: 4.144 ug/l

RT: 5.062 min Scan# 1173

Delta R.T. 0.009 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 42 Resp: 6262

Ion Ratio Lower Upper

42 100

72 53.5 49.1 73.7

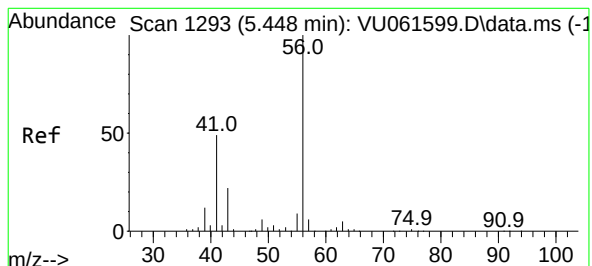
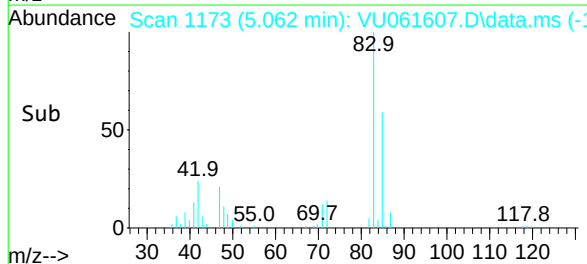
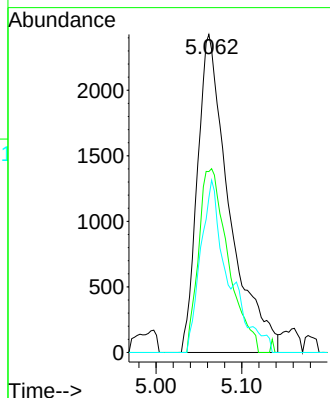
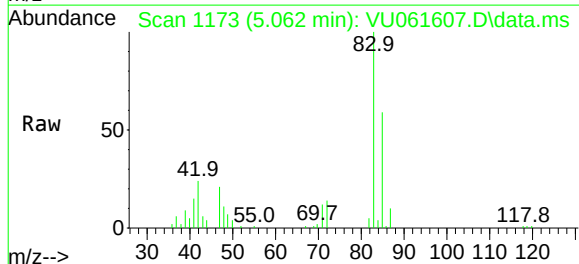
71 36.8 40.2 60.4#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#42

1-Chlorobutane

Concen: 2.016 ug/l

RT: 5.451 min Scan# 1294

Delta R.T. 0.003 min

Lab File: VU061607.D

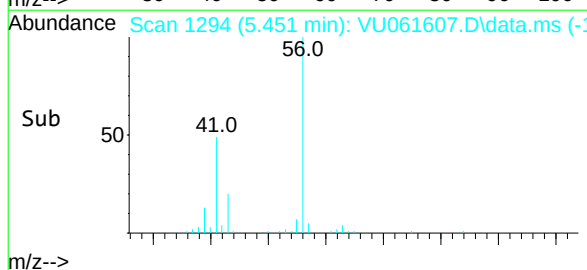
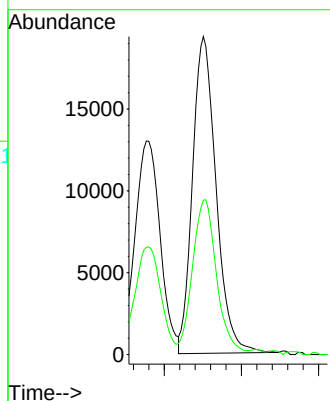
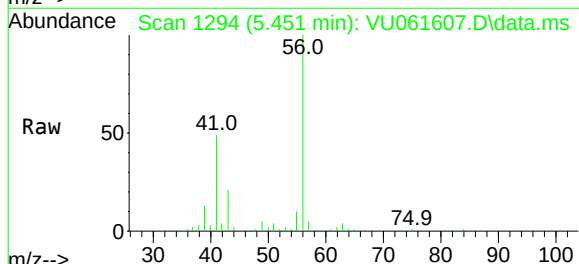
Acq: 12 Nov 2024 17:24

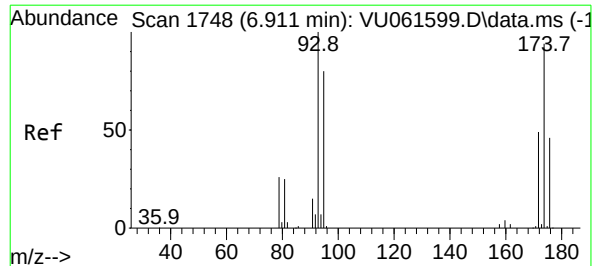
Tgt Ion: 56 Resp: 41003

Ion Ratio Lower Upper

56 100

41 47.9 23.4 70.2





#43

Dibromomethane

Concen: 2.060 ug/l

RT: 6.914 min Scan# 1748

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 93 Resp: 13303

Ion Ratio Lower Upper

93 100

95 83.6 65.2 97.8

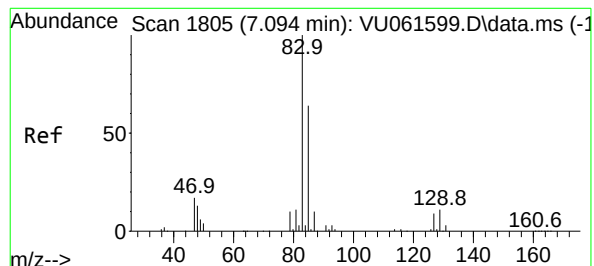
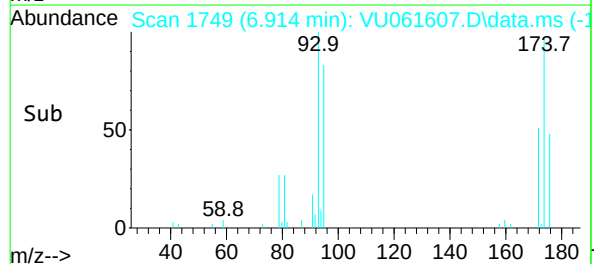
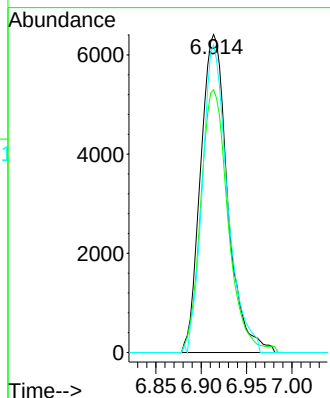
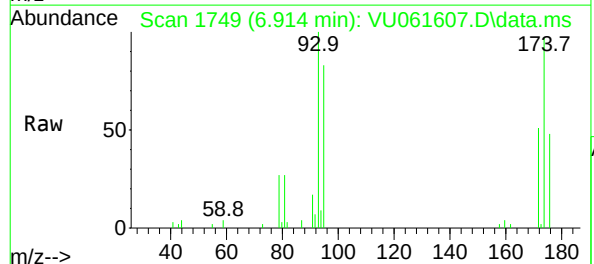
174 90.1 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

Concen: 2.079 ug/l

RT: 7.097 min Scan# 1806

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

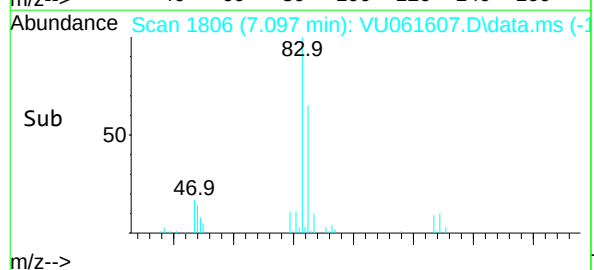
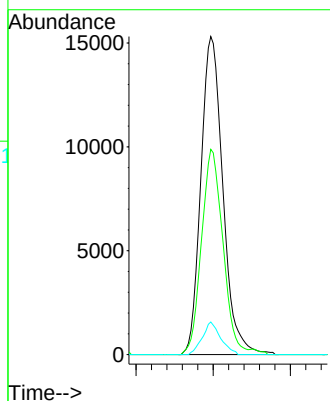
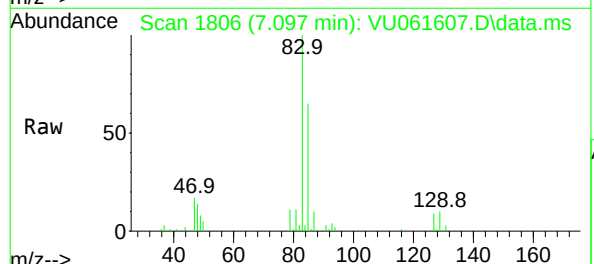
Tgt Ion: 83 Resp: 30326

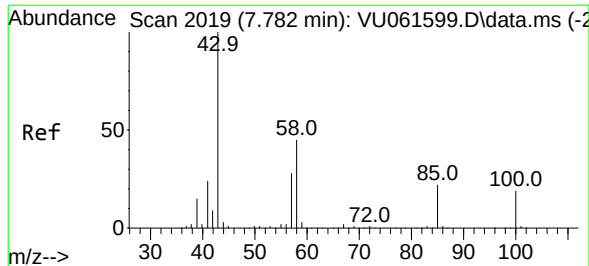
Ion Ratio Lower Upper

83 100

85 64.5 51.4 77.0

127 10.2 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 9.339 ug/l

RT: 7.785 min Scan# 2019

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

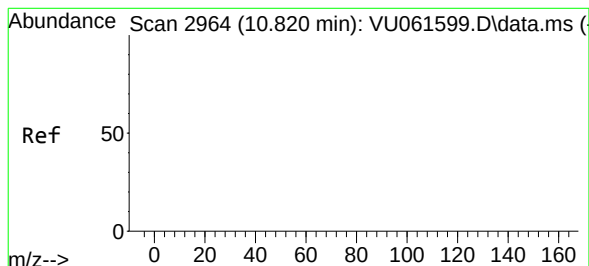
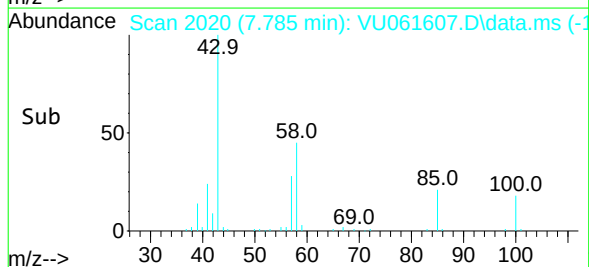
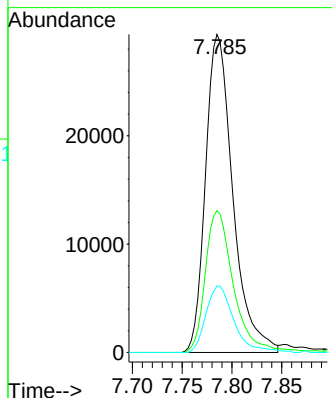
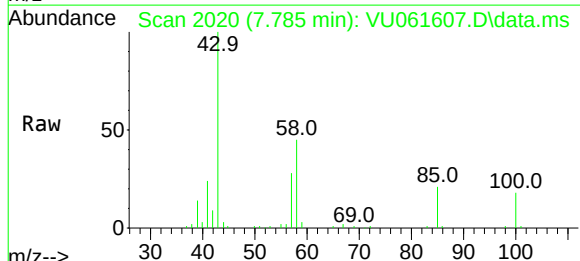
ClientSampleId :

VU1112WBS01

Tgt	Ion: 43	Resp: 56107
Ion	Ratio	Lower Upper
43	100	
58	45.9	22.3 66.8
85	21.4	17.2 25.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 4.036 ug/l m

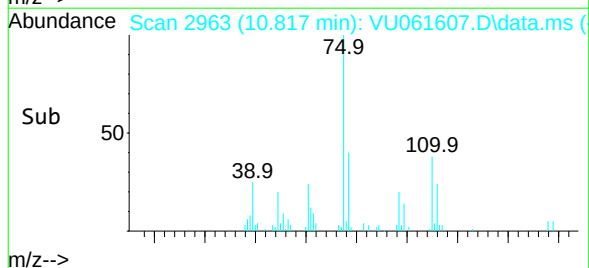
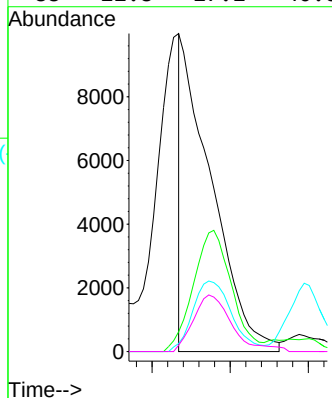
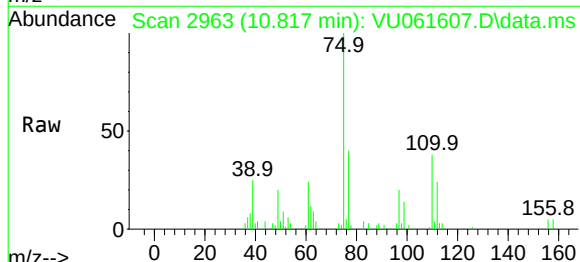
RT: 10.817 min Scan# 2963

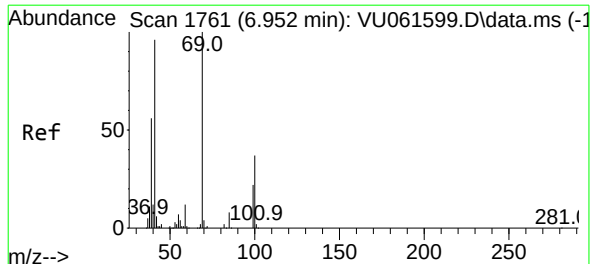
Delta R.T. -0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt	Ion: 75	Resp: 13271
Ion	Ratio	Lower Upper
75	100	
53	48.9	50.7 76.1#
89	29.0	35.2 52.8#
88	22.8	27.2 40.8#





#47

Methyl methacrylate

Concen: 3.909 ug/l

RT: 6.955 min Scan# 1761

Delta R.T. 0.003 min

Lab File: VU061607.D

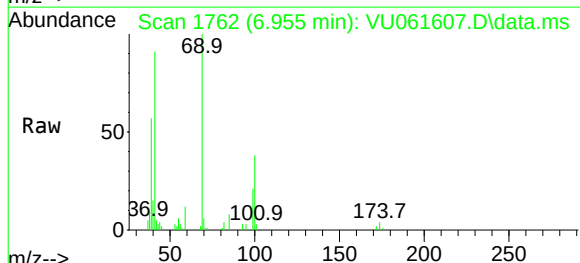
Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01



Tgt Ion: 69 Resp: 20040

Ion Ratio Lower Upper

69 100

41 99.2 0.0 193.6

39 61.9 46.6 70.0

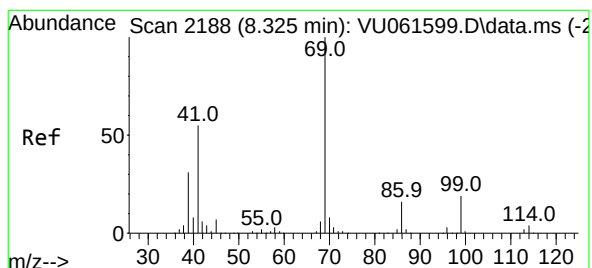
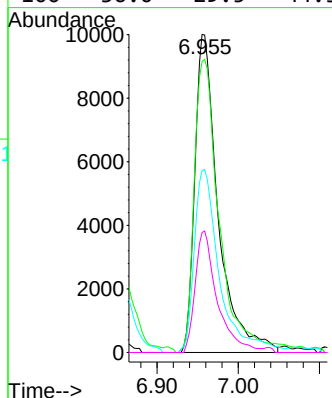
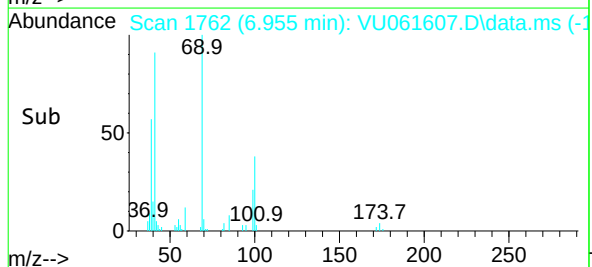
100 36.0 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#48

Ethyl methacrylate

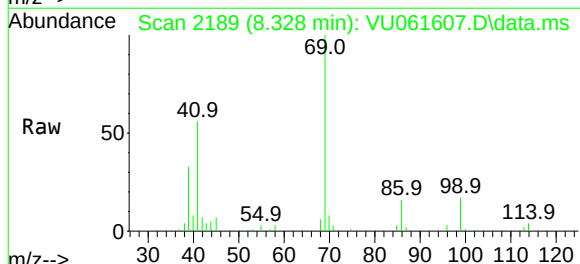
Concen: 1.883 ug/l

RT: 8.328 min Scan# 2189

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

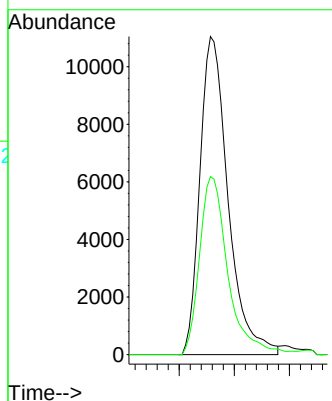
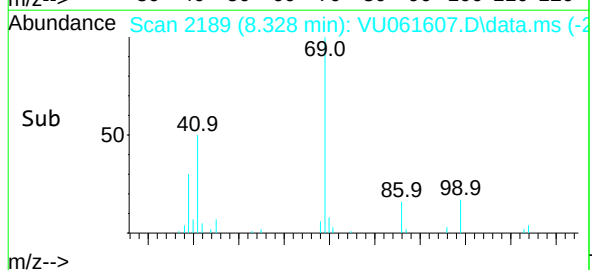


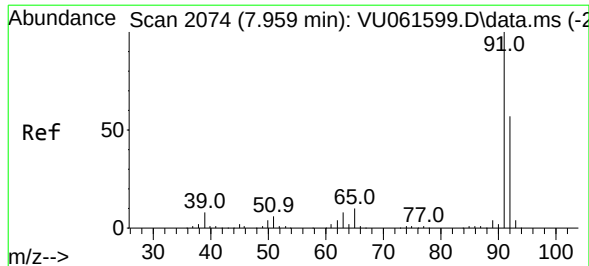
Tgt Ion: 69 Resp: 19625

Ion Ratio Lower Upper

69 100

41 56.3 27.3 81.9





#49

Toluene

Concen: 1.992 ug/l

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion: 92 Resp: 59069

Ion Ratio Lower Upper

92 100

91 175.8 139.6 209.4

Instrument :

MSVOA_U

ClientSampleId :

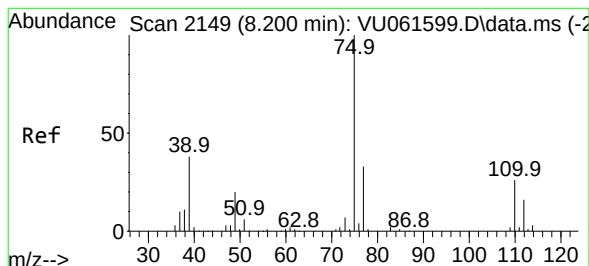
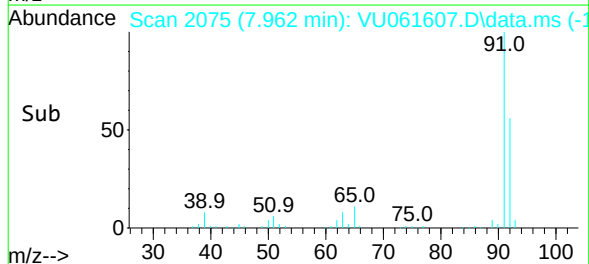
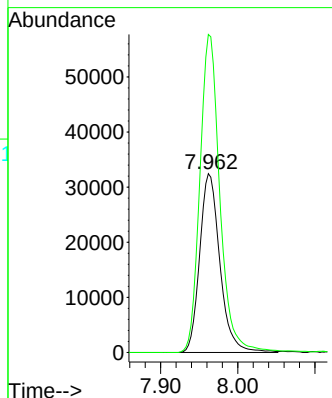
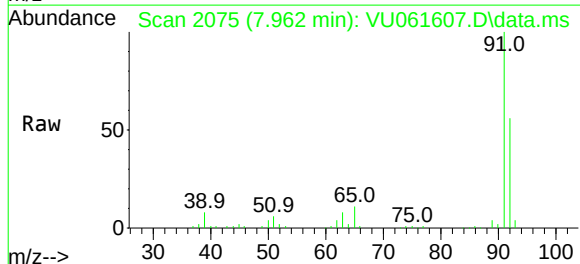
VU1112WBS01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#50

t-1,3-Dichloropropene

Concen: 1.904 ug/l

RT: 8.206 min Scan# 2151

Delta R.T. 0.006 min

Lab File: VU061607.D

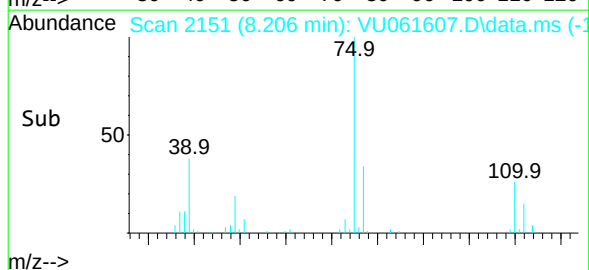
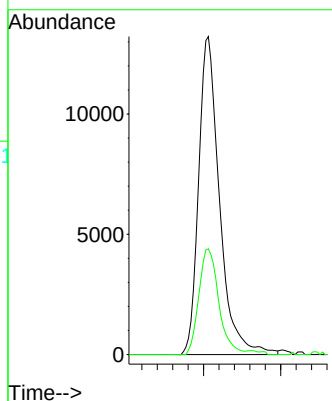
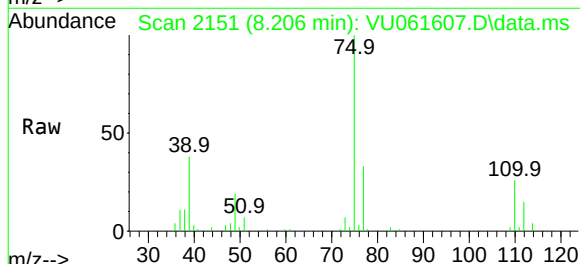
Acq: 12 Nov 2024 17:24

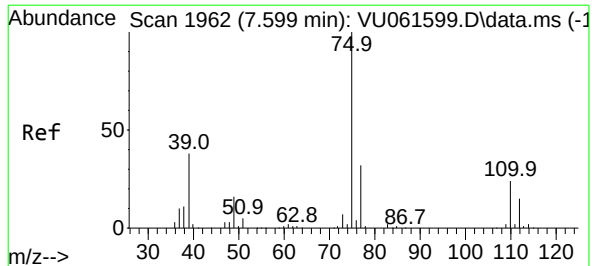
Tgt Ion: 75 Resp: 24852

Ion Ratio Lower Upper

75 100

77 33.3 26.0 39.0





#51

cis-1,3-Dichloropropene

Concen: 1.932 ug/l

RT: 7.602 min Scan# 19

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

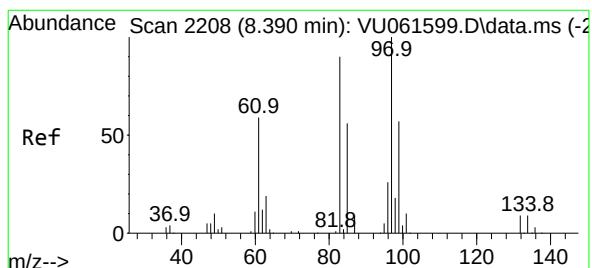
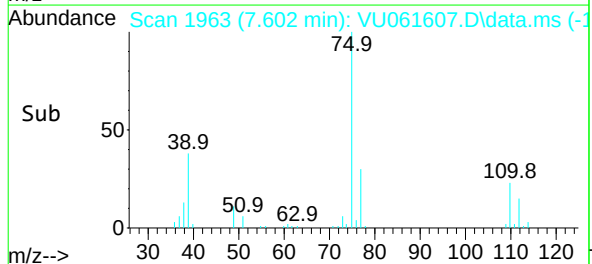
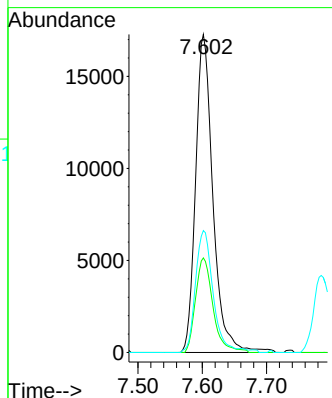
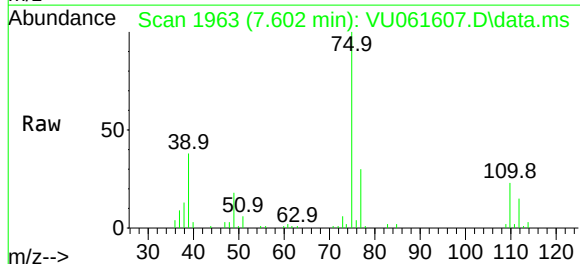
Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt	Ion: 75	Resp: 32337
Ion	Ratio	Lower Upper
75	100	
77	29.7	25.5 38.3
39	38.3	30.6 46.0

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#52

1,1,2-Trichloroethane

Concen: 2.055 ug/l

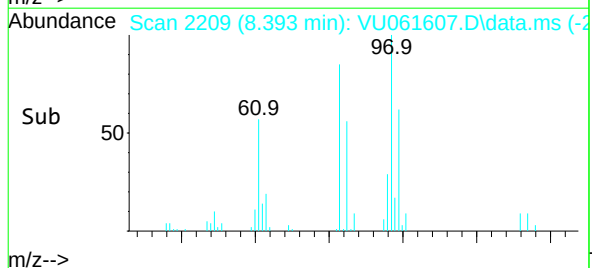
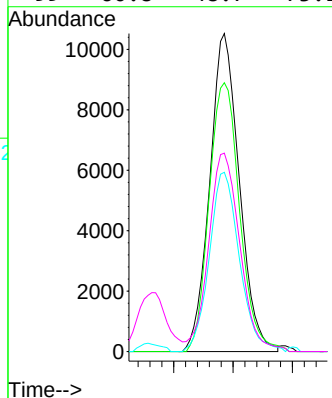
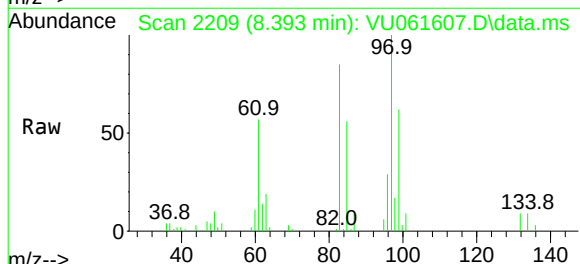
RT: 8.393 min Scan# 2209

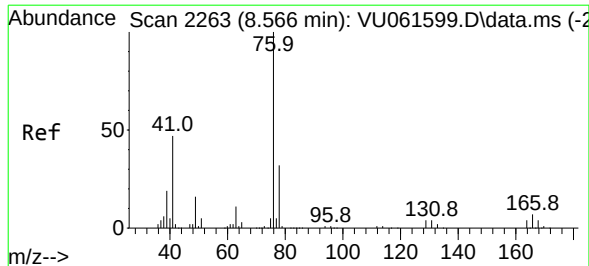
Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt	Ion: 97	Resp: 18191
Ion	Ratio	Lower Upper
97	100	
83	84.5	71.7 107.5
85	56.4	45.2 67.8
99	60.8	48.7 73.1





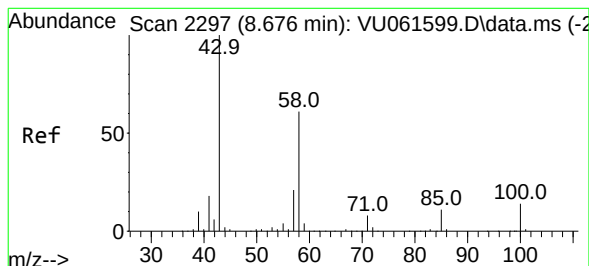
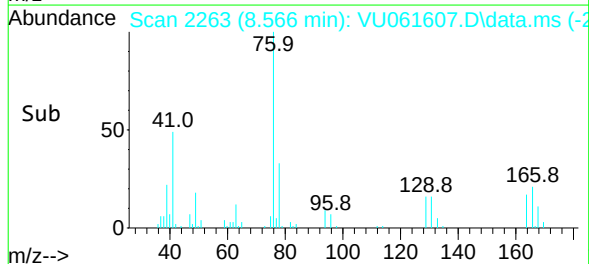
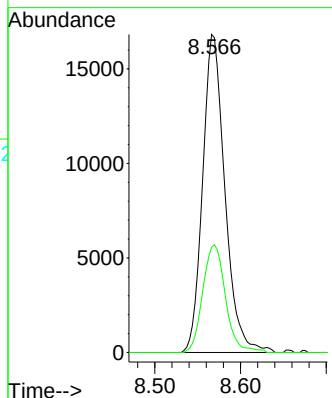
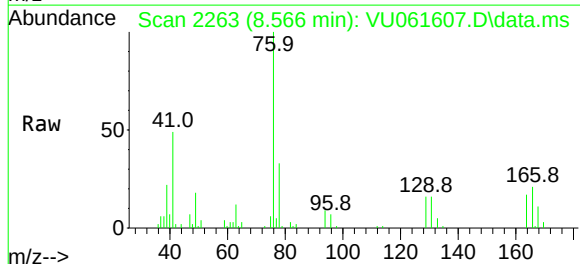
#53
1,3-Dichloropropane
Concen: 2.010 ug/l
RT: 8.566 min Scan# 2263
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01

Tgt Ion: 76 Resp: 30372
Ion Ratio Lower Upper
76 100
78 34.6 25.8 38.8

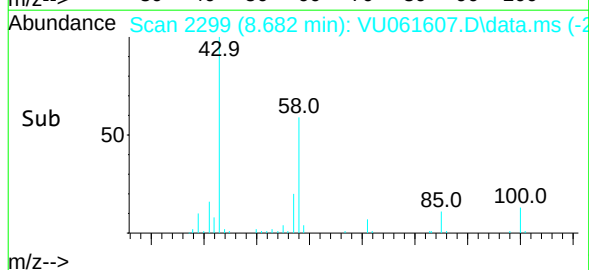
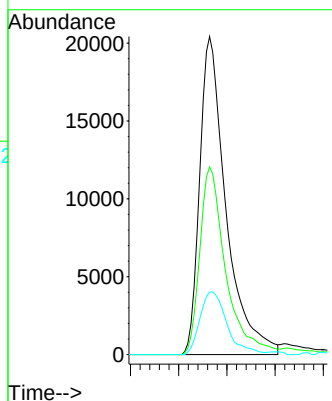
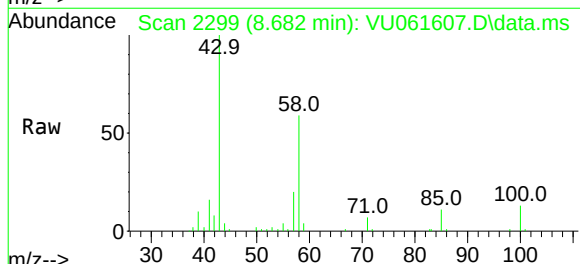
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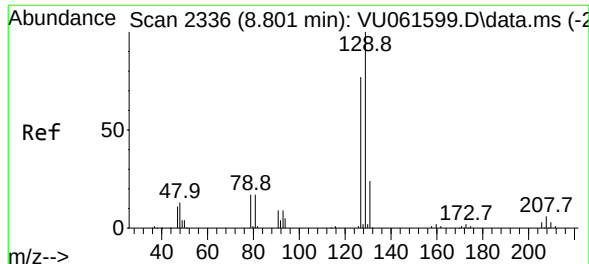
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#54
2-Hexanone
Concen: 7.556 ug/l
RT: 8.682 min Scan# 2299
Delta R.T. 0.006 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

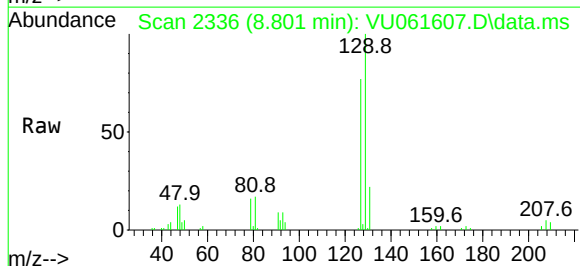
Tgt Ion: 43 Resp: 38677
Ion Ratio Lower Upper
43 100
58 57.9 42.3 82.3
57 20.2 0.9 40.9





#55
Dibromochloromethane
Concen: 2.040 ug/l
RT: 8.801 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

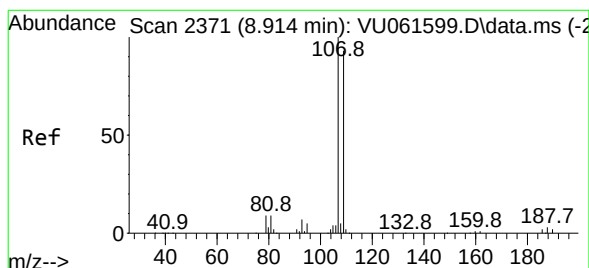
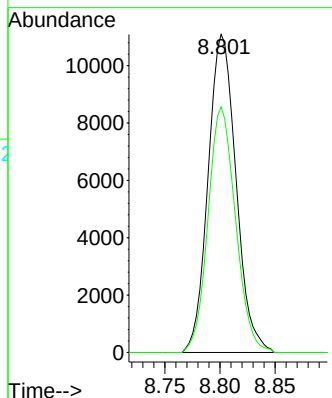
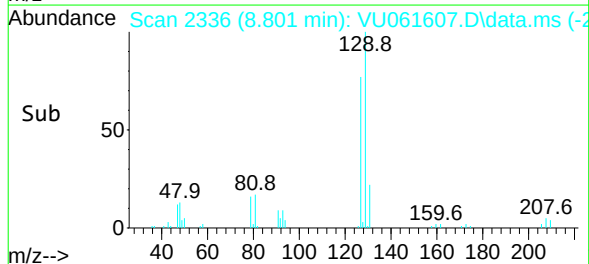
Instrument :
MSVOA_U
ClientSampleId :
VU1112WBS01



Tgt Ion:129 Resp: 19547
Ion Ratio Lower Upper
129 100
127 76.0 61.8 92.8

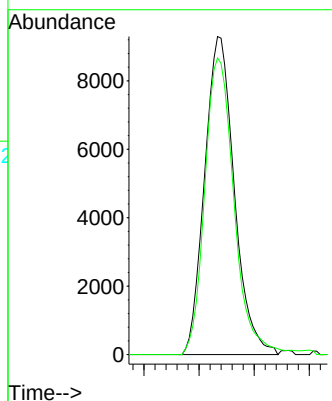
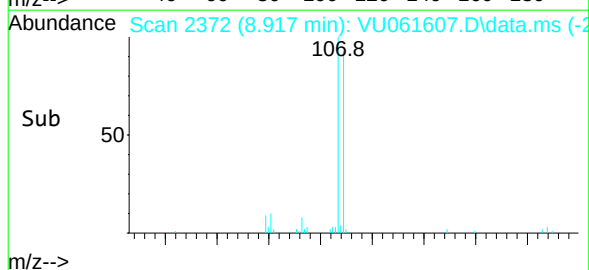
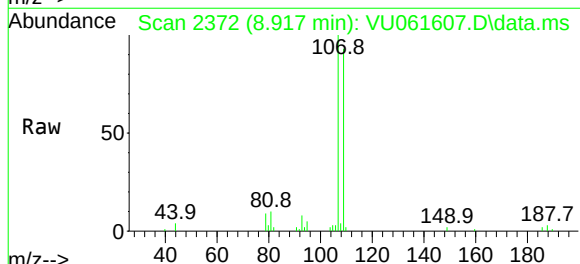
Manual Integrations
APPROVED

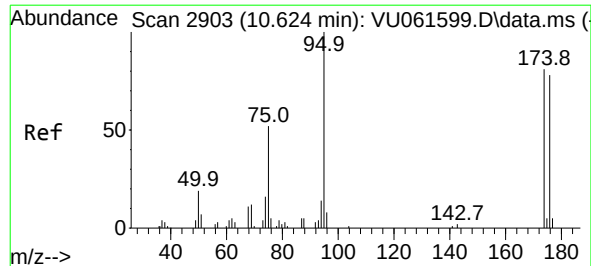
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#56
1,2-Dibromoethane
Concen: 2.089 ug/l
RT: 8.917 min Scan# 2372
Delta R.T. 0.003 min
Lab File: VU061607.D
Acq: 12 Nov 2024 17:24

Tgt Ion:107 Resp: 17379
Ion Ratio Lower Upper
107 100
109 92.5 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 0.951 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 95 Resp: 14845

Ion Ratio Lower Upper

95 100

174 81.4 67.5 101.3

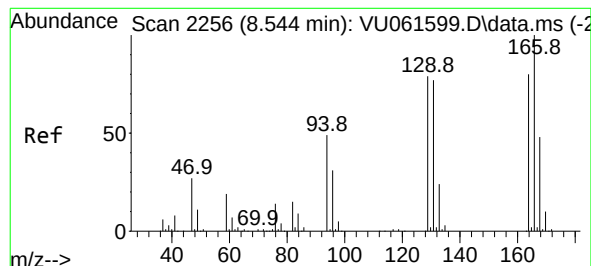
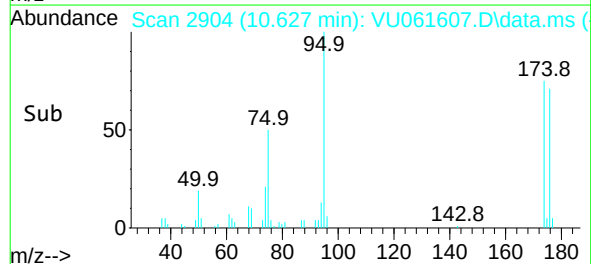
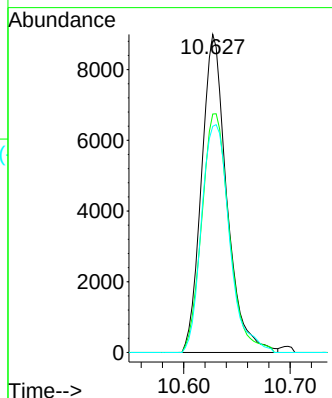
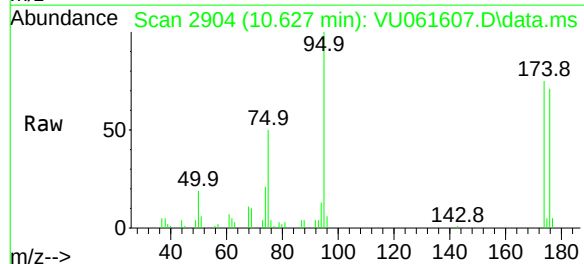
176 79.4 62.7 94.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#58

Tetrachloroethene

Concen: 1.985 ug/l

RT: 8.547 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion:164 Resp: 22963

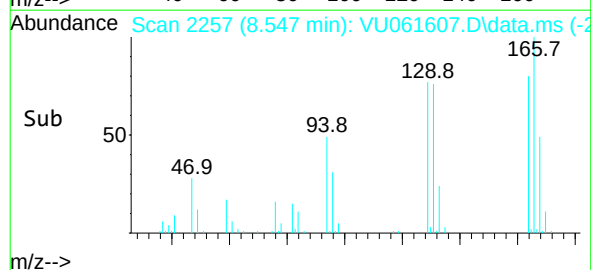
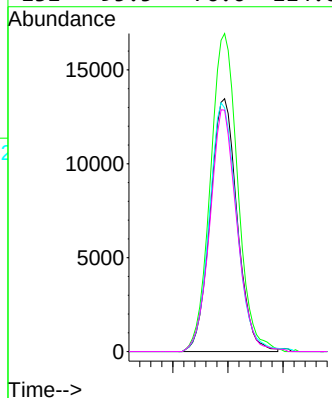
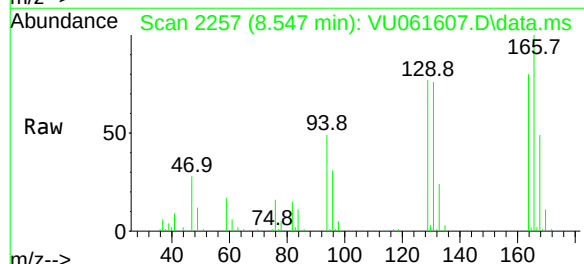
Ion Ratio Lower Upper

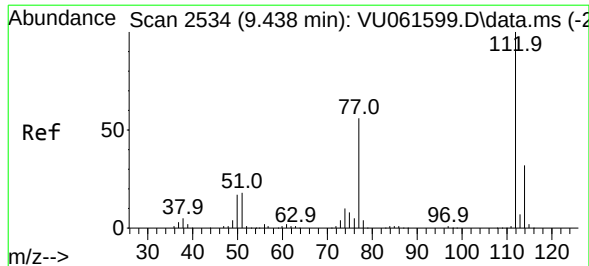
164 100

166 125.8 99.9 149.9

129 96.3 78.6 118.0

131 95.5 76.6 114.8





#59

Chlorobenzene

Concen: 1.972 ug/l

RT: 9.441 min Scan# 2534

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:112 Resp: 64608

Ion Ratio Lower Upper

112 100

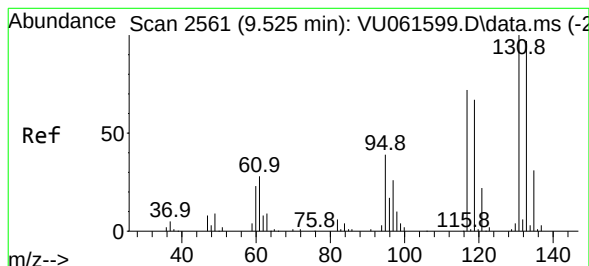
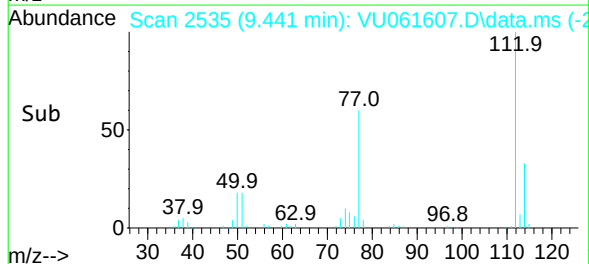
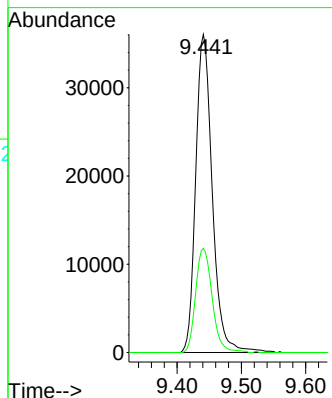
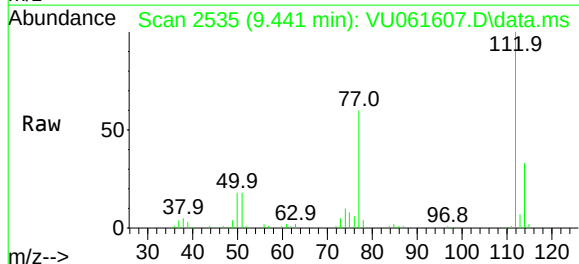
114 32.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#60

1,1,1,2-Tetrachloroethane

Concen: 2.004 ug/l

RT: 9.524 min Scan# 2561

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

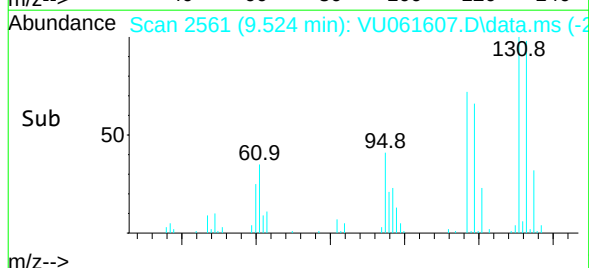
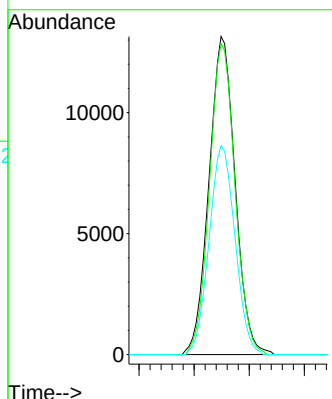
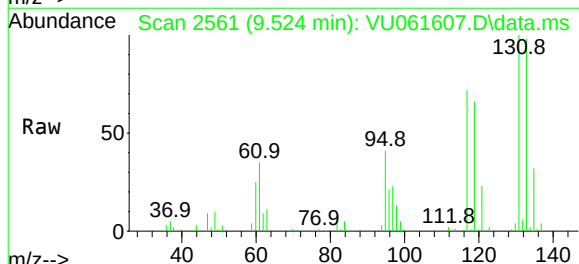
Tgt Ion:131 Resp: 21677

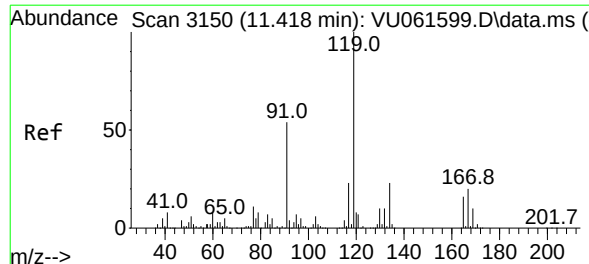
Ion Ratio Lower Upper

131 100

133 95.3 76.4 114.6

119 65.1 53.5 80.3





#61

Pentachloroethane

Concen: 1.985 ug/l

RT: 11.418 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:117 Resp: 16149

Ion Ratio Lower Upper

117 100

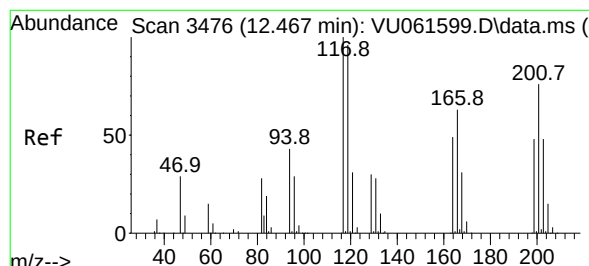
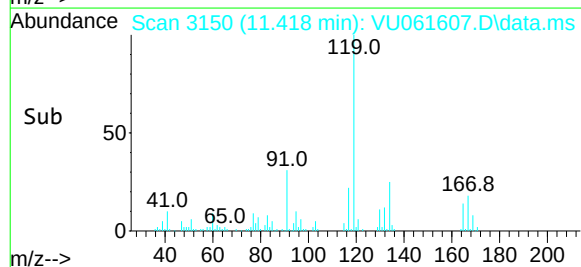
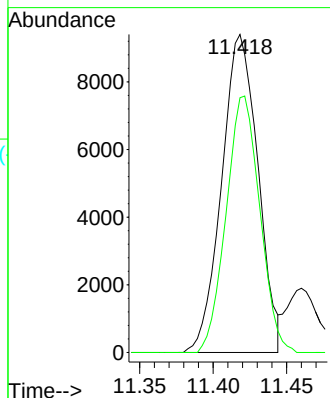
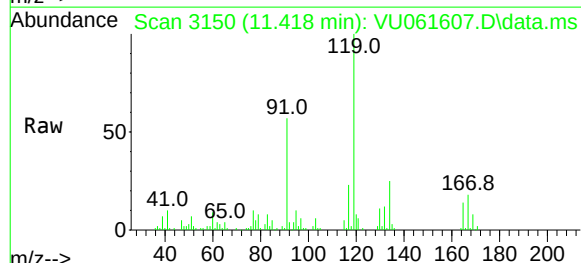
167 74.9 65.4 98.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 1.852 ug/l

RT: 12.466 min Scan# 3476

Delta R.T. -0.000 min

Lab File: VU061607.D

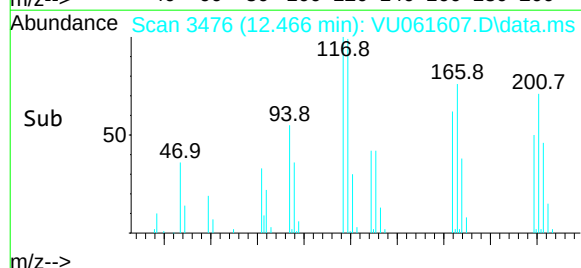
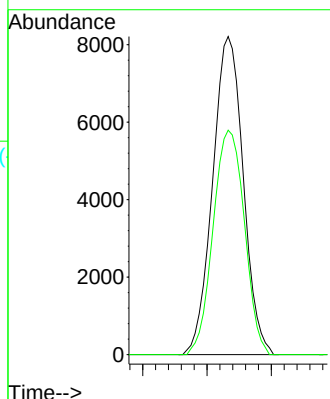
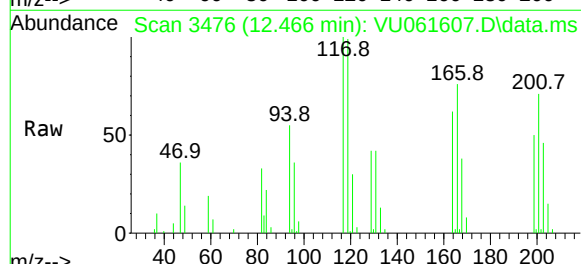
Acq: 12 Nov 2024 17:24

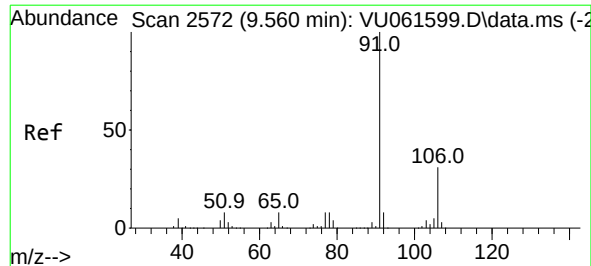
Tgt Ion:117 Resp: 13587

Ion Ratio Lower Upper

117 100

201 72.0 61.0 91.6





#63

Ethyl Benzene

Concen: 1.897 ug/l

RT: 9.563 min Scan# 2572

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 91 Resp: 104658

Ion Ratio Lower Upper

91 100

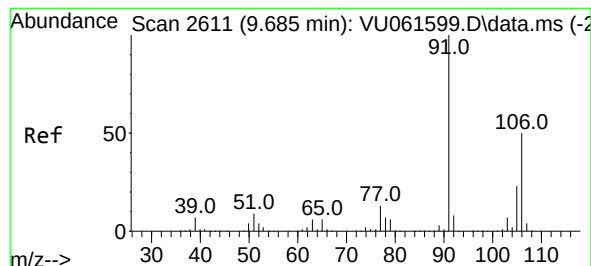
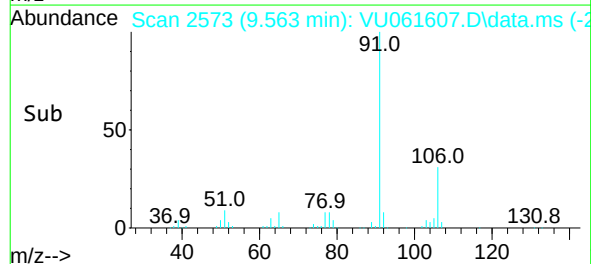
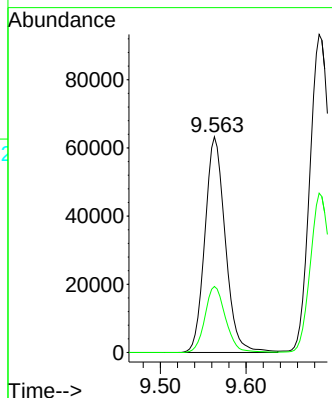
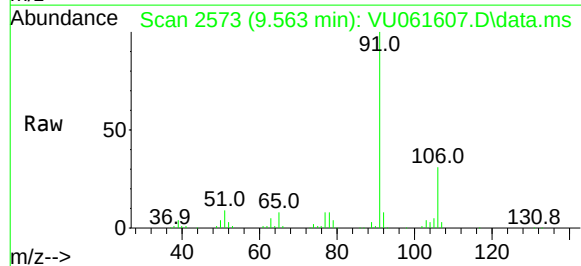
106 30.6 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#64

m/p-Xylenes

Concen: 3.798 ug/l

RT: 9.685 min Scan# 2611

Delta R.T. -0.000 min

Lab File: VU061607.D

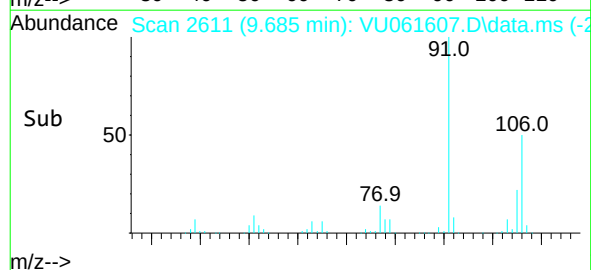
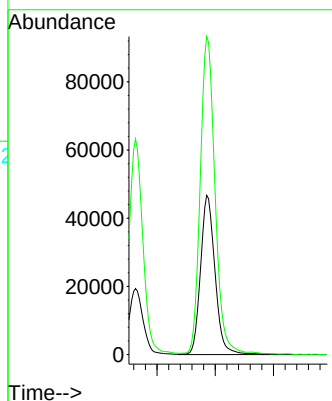
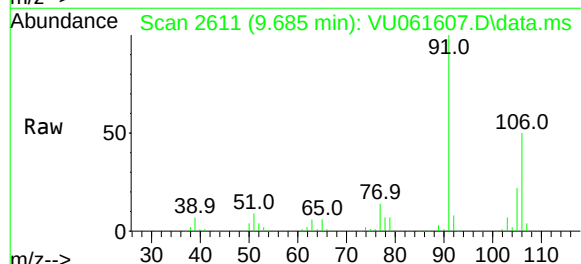
Acq: 12 Nov 2024 17:24

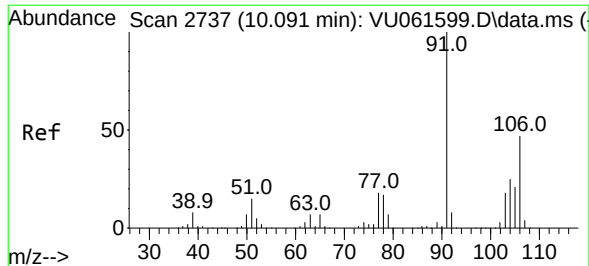
Tgt Ion:106 Resp: 80679

Ion Ratio Lower Upper

106 100

91 200.7 161.3 241.9





#65

o-Xylene

Concen: 1.878 ug/l

RT: 10.094 min Scan# 2737

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:106 Resp: 38895

Ion Ratio Lower Upper

106 100

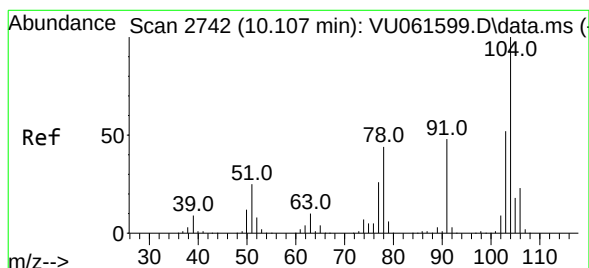
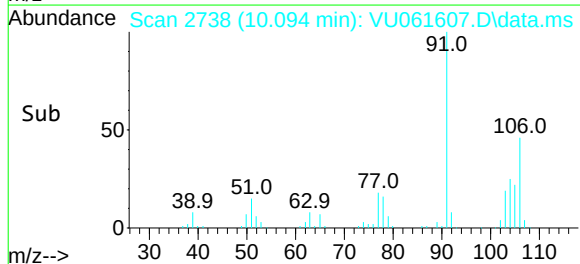
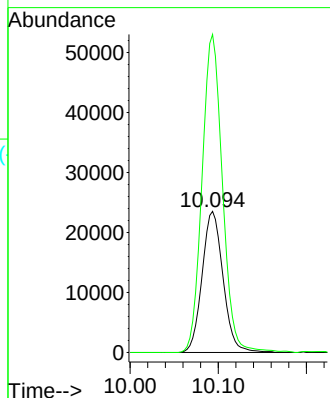
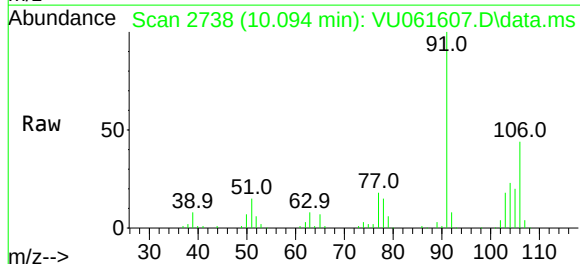
91 219.3 106.7 320.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#66

Styrene

Concen: 1.831 ug/l

RT: 10.110 min Scan# 2743

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

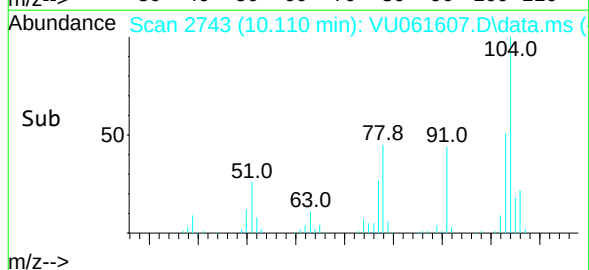
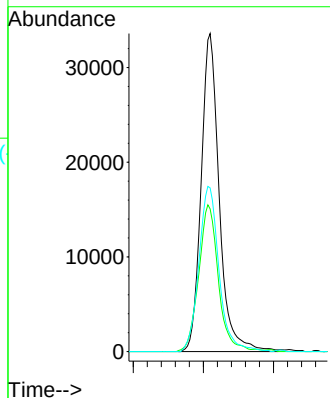
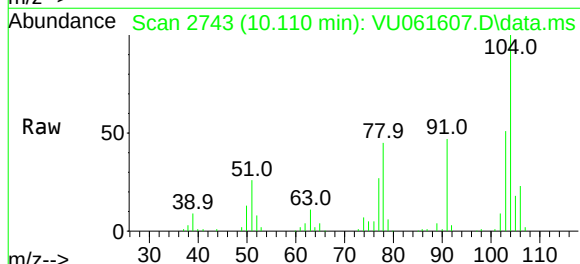
Tgt Ion:104 Resp: 60191

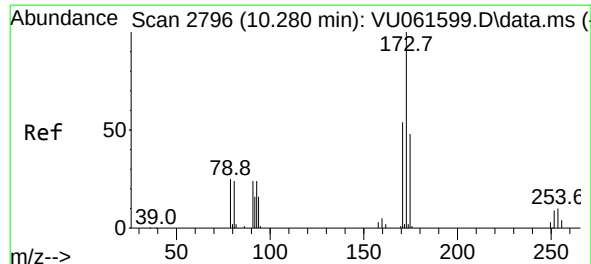
Ion Ratio Lower Upper

104 100

78 50.0 39.2 58.8

103 57.7 44.9 67.3





#67

Bromoform

Concen: 1.991 ug/l

RT: 10.283 min Scan# 2796

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

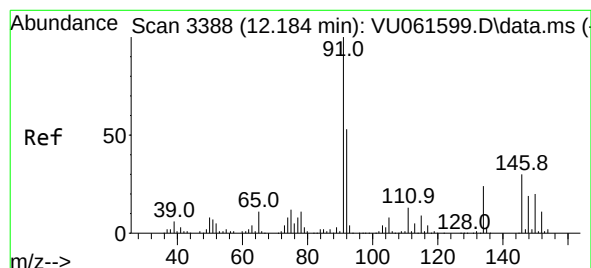
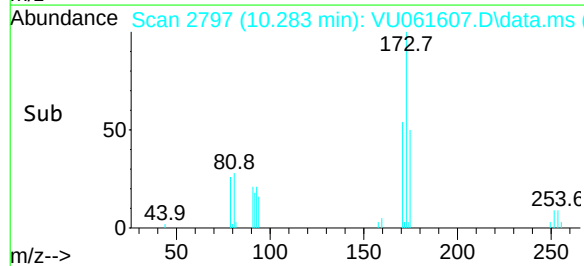
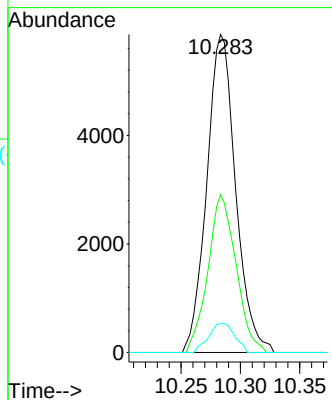
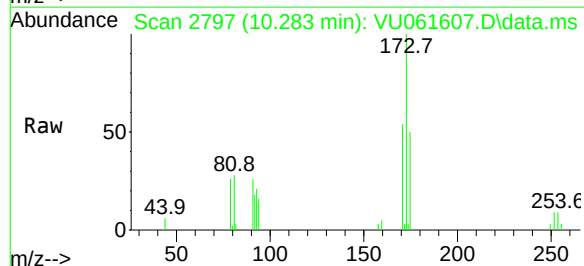
ClientSampleId :

VU1112WBS01

Tgt Ion:	173	Resp:	9898
Ion Ratio	Lower	Upper	
173	100		
175	48.3	38.4	57.6
254	8.3	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 0.983 ug/l

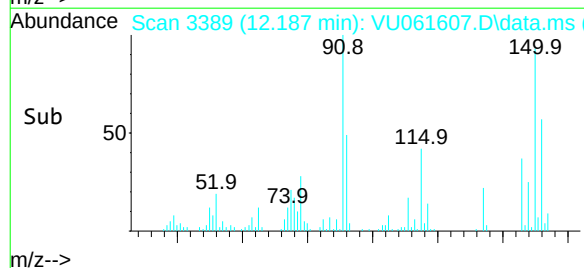
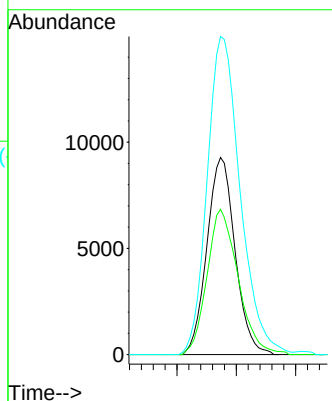
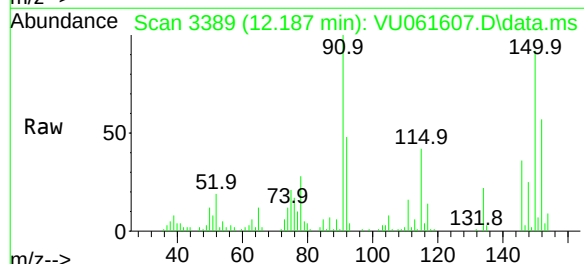
RT: 12.187 min Scan# 3389

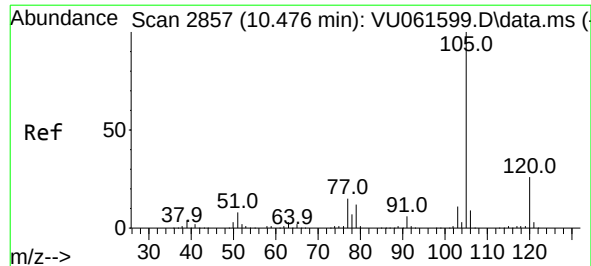
Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion:	152	Resp:	15292
Ion Ratio	Lower	Upper	
152	100		
115	81.4	0.0	259.0
150	189.3	0.0	650.2





#69

Isopropylbenzene

Concen: 1.878 ug/l

RT: 10.476 min Scan# 2857

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion: 105 Resp: 90983

Ion Ratio Lower Upper

105 100

120 26.3 13.2 39.6

Instrument :

MSVOA_U

ClientSampleId :

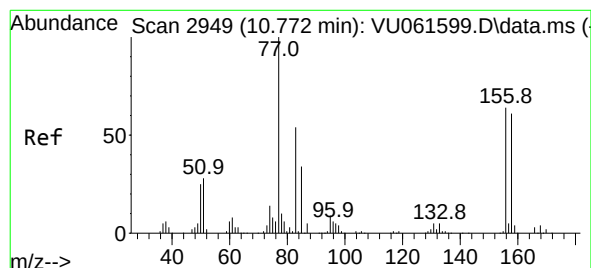
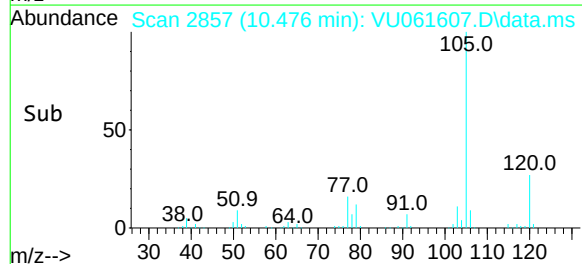
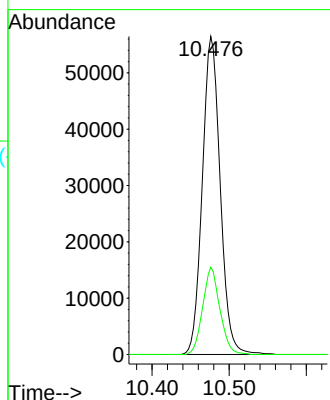
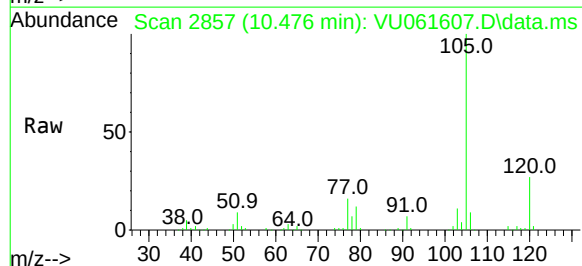
VU1112WBS01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 2.021 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

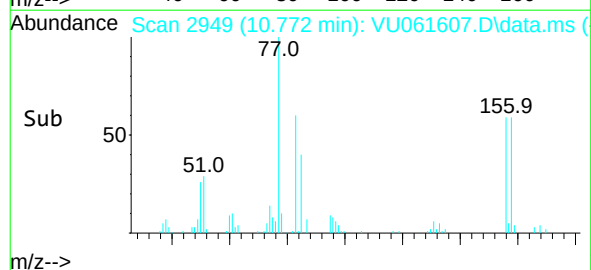
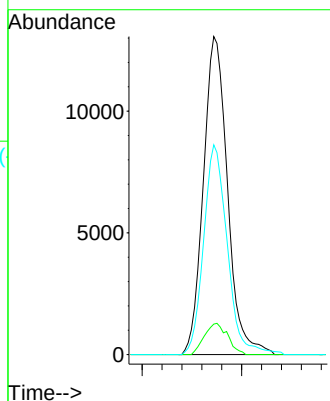
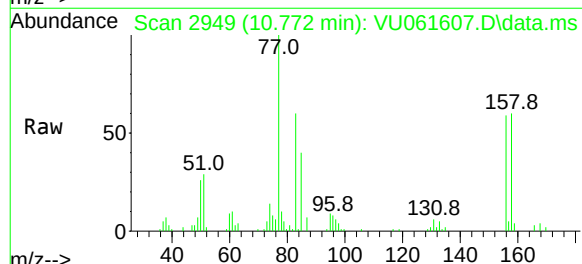
Tgt Ion: 83 Resp: 22035

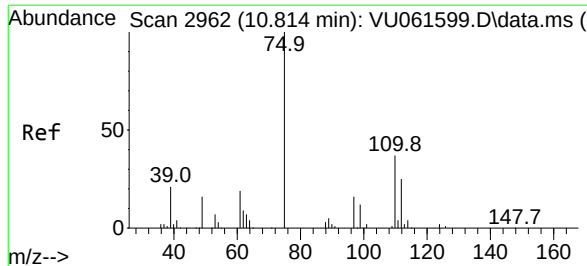
Ion Ratio Lower Upper

83 100

131 9.5 7.9 11.9

85 64.6 51.4 77.2





#71

1,2,3-Trichloropropane

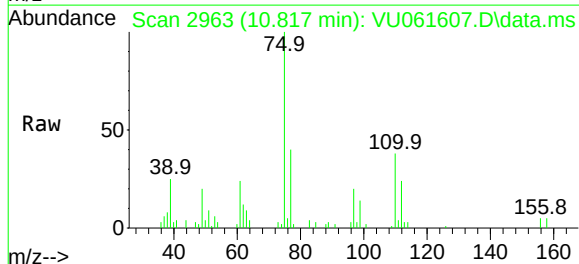
Concen: 2.017 ug/l m

RT: 10.817 min Scan# 29

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24



Tgt Ion: 75 Resp: 17695

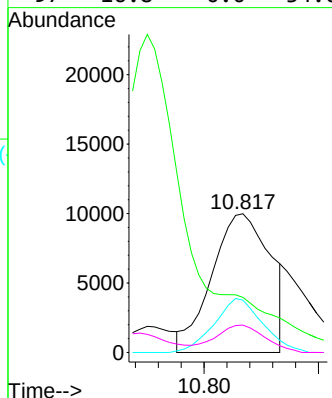
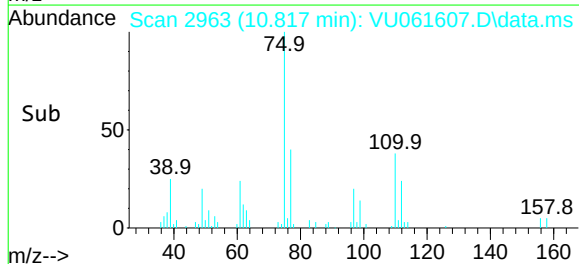
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 32.4 0.0 61.6

97 16.8 0.0 34.6



Instrument :

MSVOA_U

ClientSampleId :

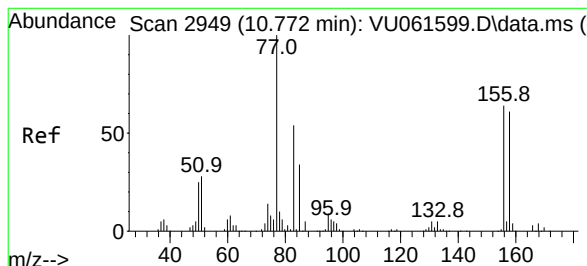
VU1112WBS01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

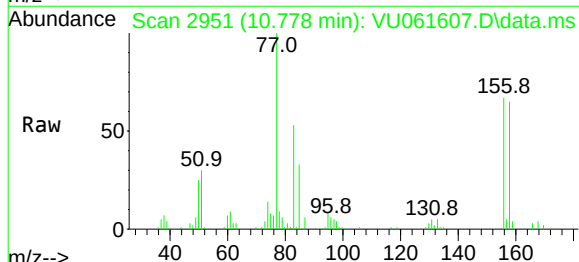
Concen: 1.971 ug/l

RT: 10.778 min Scan# 2951

Delta R.T. 0.006 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24



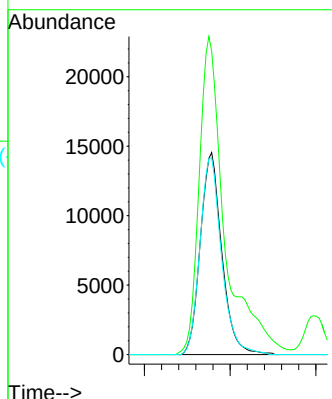
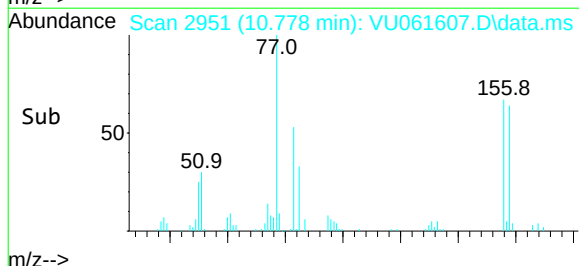
Tgt Ion:156 Resp: 25315

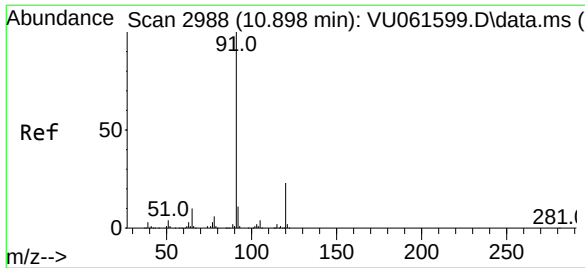
Ion Ratio Lower Upper

156 100

77 189.2 0.0 313.0

158 98.4 0.0 193.2





#73

n-propylbenzene

Concen: 1.900 ug/l

RT: 10.897 min Scan# 2988

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:120 Resp: 27212

Ion Ratio Lower Upper

120 100

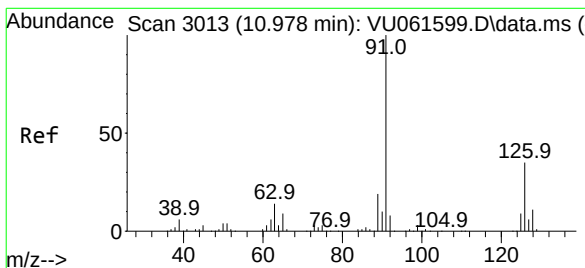
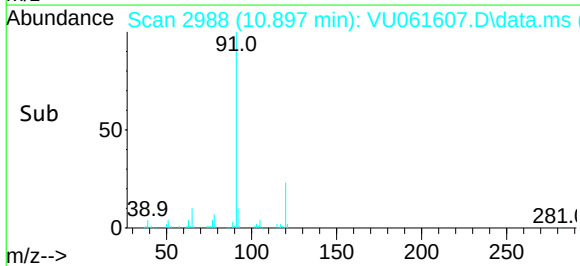
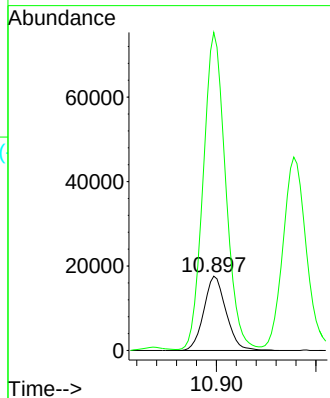
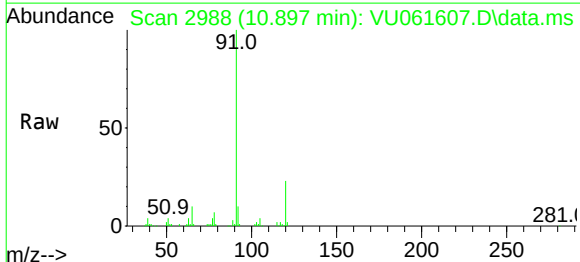
91 430.2 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#74

2-Chlorotoluene

Concen: 1.986 ug/l

RT: 10.978 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU061607.D

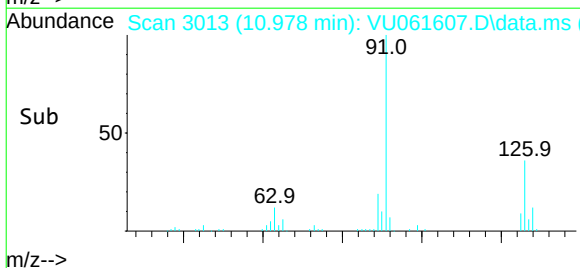
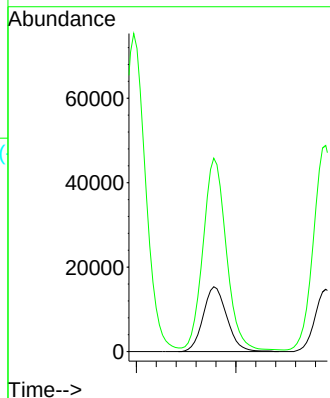
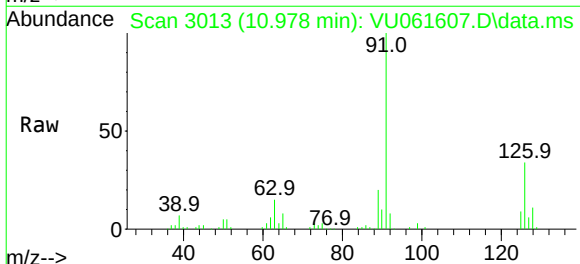
Acq: 12 Nov 2024 17:24

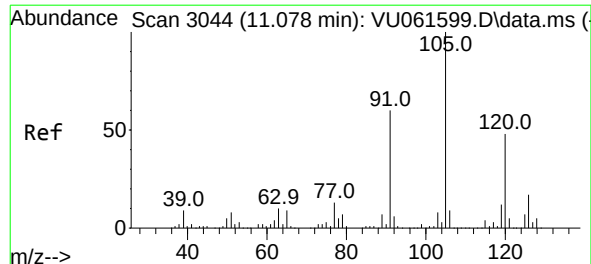
Tgt Ion:126 Resp: 25387

Ion Ratio Lower Upper

126 100

91 293.1 0.0 587.6





#75

1,3,5-Trimethylbenzene

Concen: 1.887 ug/l

RT: 11.081 min Scan# 3044

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:105 Resp: 82754

Ion Ratio Lower Upper

105 100

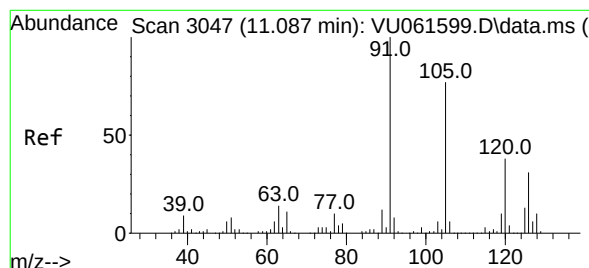
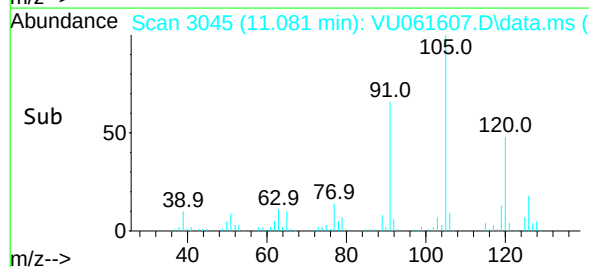
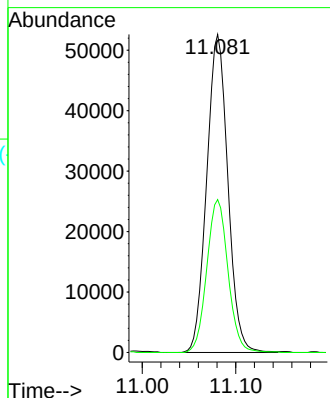
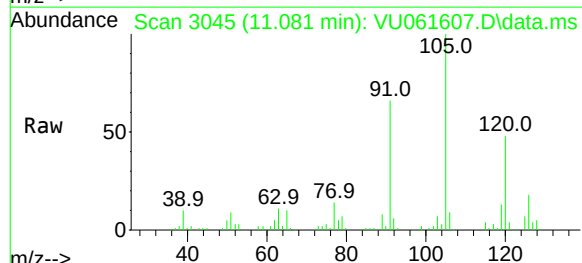
120 48.3 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#76

4-Chlorotoluene

Concen: 1.868 ug/l

RT: 11.090 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VU061607.D

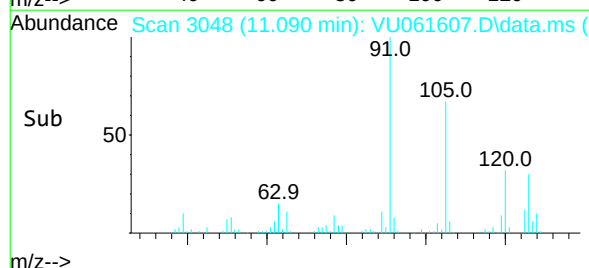
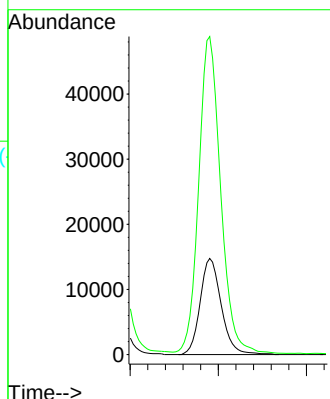
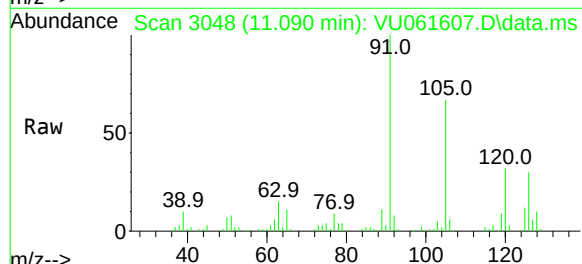
Acq: 12 Nov 2024 17:24

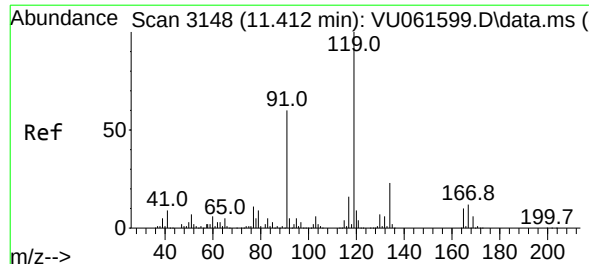
Tgt Ion:126 Resp: 24557

Ion Ratio Lower Upper

126 100

91 341.4 0.0 650.4





#77

tert-Butylbenzene

Concen: 1.882 ug/l

RT: 11.412 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:119 Resp: 80606

Ion Ratio Lower Upper

119 100

91 59.8 29.2 87.6

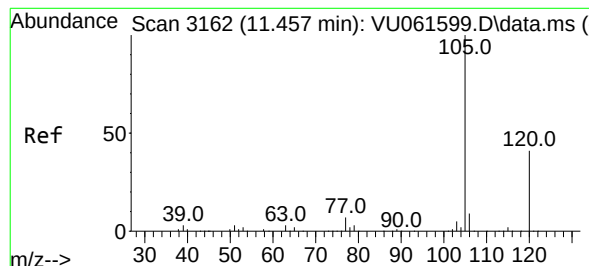
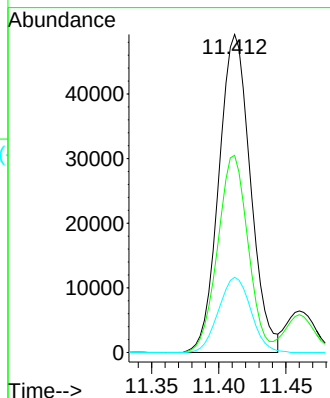
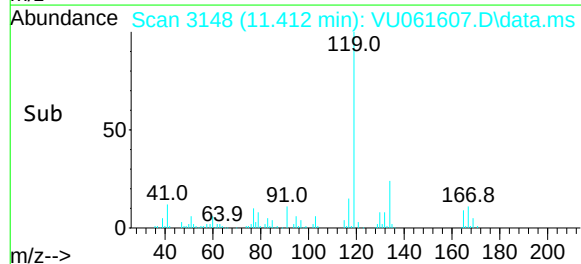
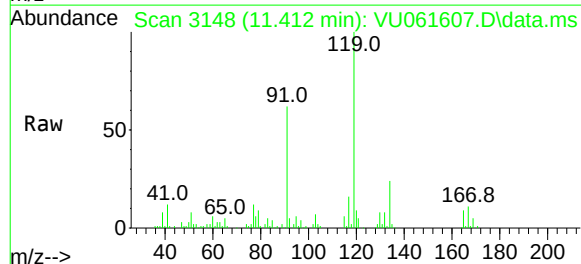
134 24.2 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 1.770 ug/l

RT: 11.460 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VU061607.D

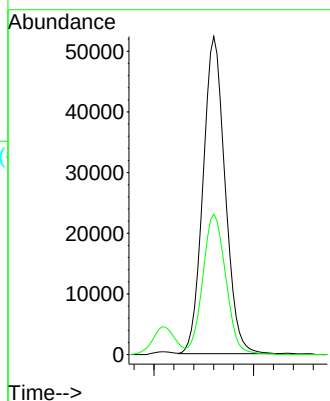
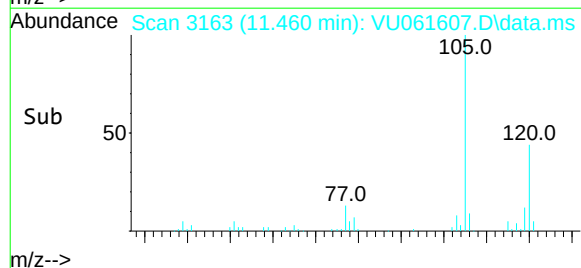
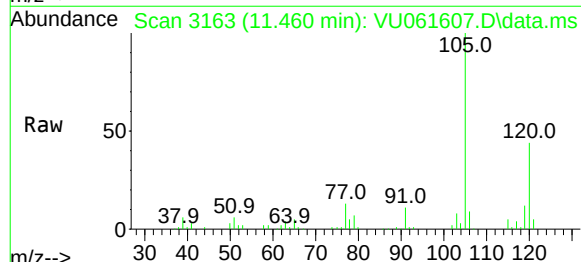
Acq: 12 Nov 2024 17:24

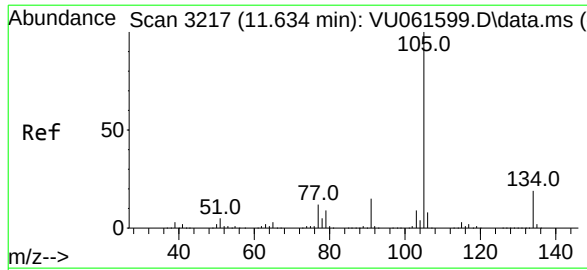
Tgt Ion:105 Resp: 80539

Ion Ratio Lower Upper

105 100

120 46.3 22.7 68.0





#79

sec-Butylbenzene

Concen: 1.872 ug/l

RT: 11.634 min Scan# 3217

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion: 105 Resp: 106265

Ion Ratio Lower Upper

105 100

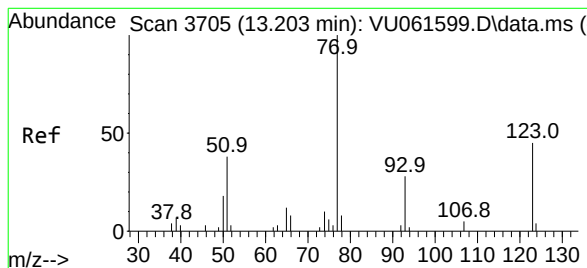
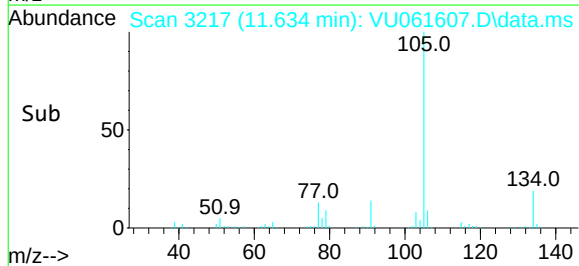
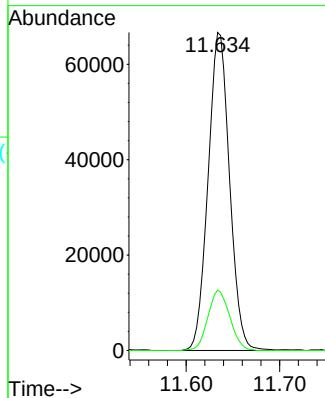
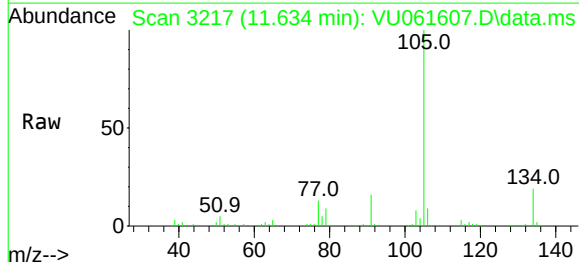
134 19.4 15.8 23.8

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#80

Nitrobenzene

Concen: 9.708 ug/l

RT: 13.219 min Scan# 3710

Delta R.T. 0.016 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

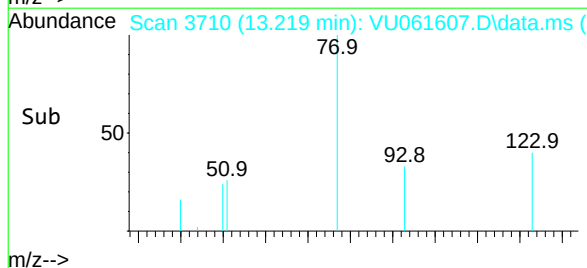
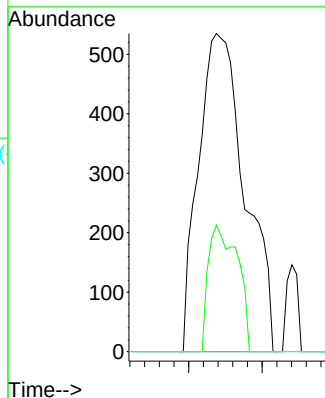
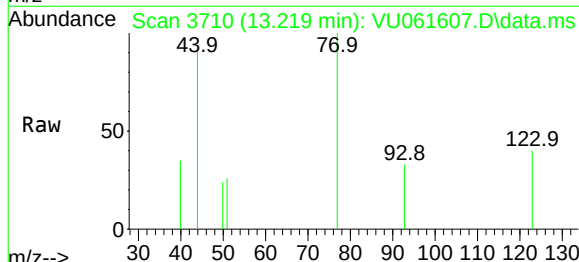
Tgt Ion: 77 Resp: 1174

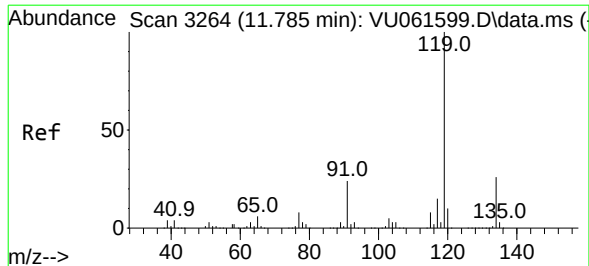
Ion Ratio Lower Upper

77 100

123 24.9 16.9 60.1

65 0.0 9.4 12.0#





#81

p-Isopropyltoluene

Concen: 1.754 ug/l

RT: 11.785 min Scan# 32

Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

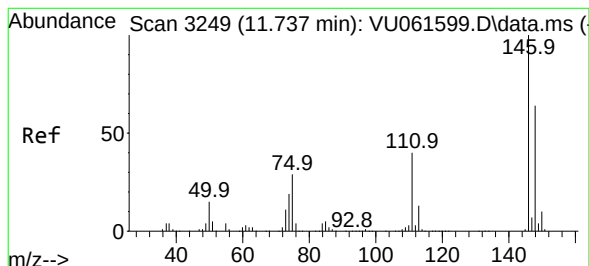
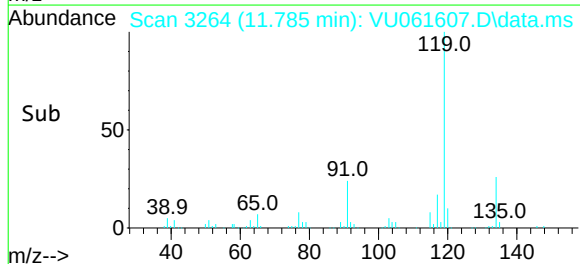
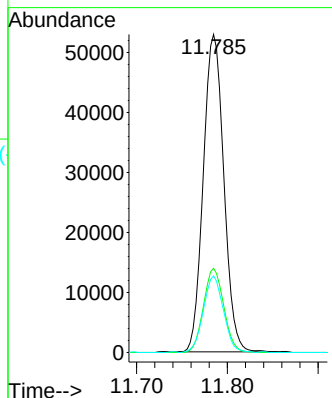
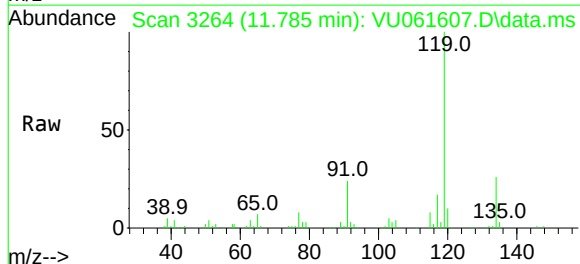
Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:	119	Resp:	82950
Ion Ratio	Lower	Upper	
119	100		
134	26.1	20.9	31.3
91	23.6	18.8	28.2

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#82

1,3-Dichlorobenzene

Concen: 1.911 ug/l

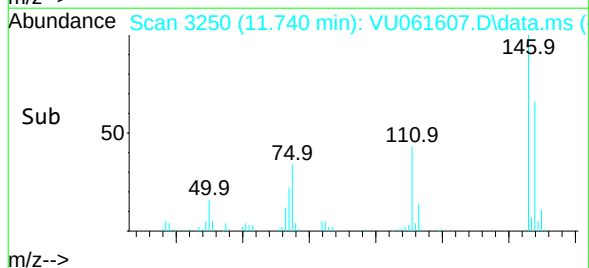
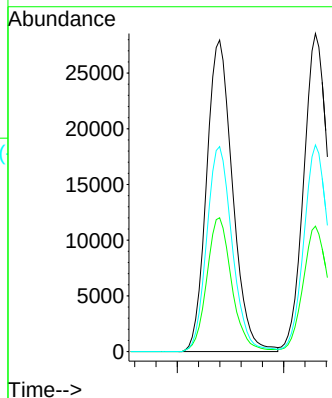
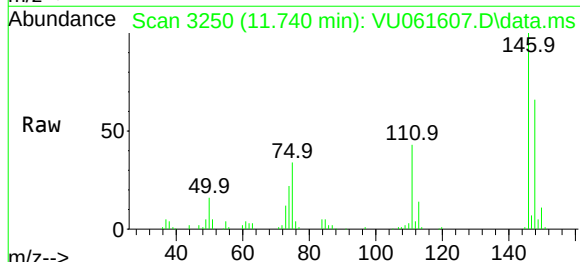
RT: 11.740 min Scan# 3250

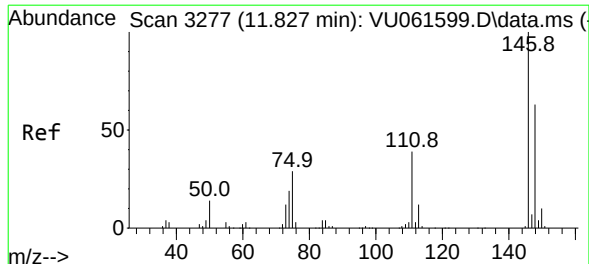
Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion:	146	Resp:	47485
Ion Ratio	Lower	Upper	
146	100		
111	41.3	32.6	49.0
148	64.6	51.0	76.4





#83

1,4-Dichlorobenzene

Concen: 1.900 ug/l

RT: 11.830 min Scan# 3277

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

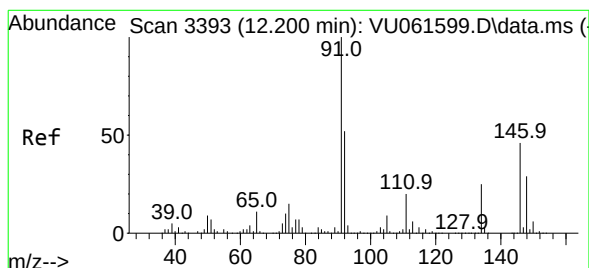
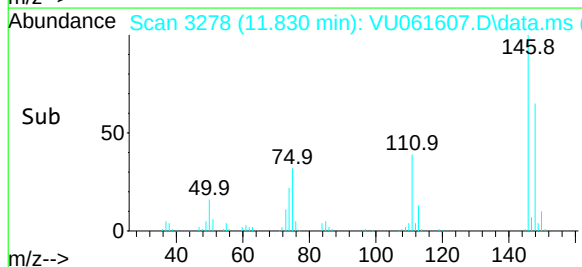
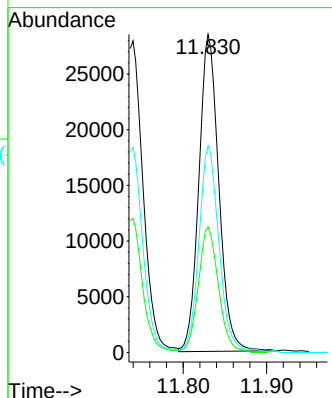
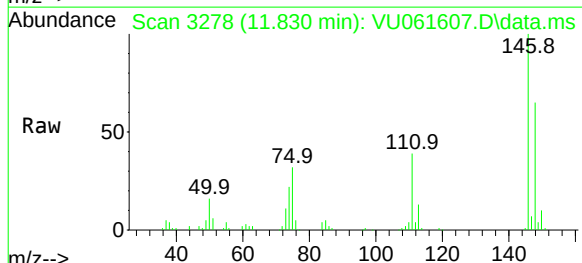
Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:	146	Resp:	47265
Ion	Ratio	Lower	Upper
146	100		
111	40.0	31.2	46.8
148	64.7	50.2	75.2

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#84

n-Butylbenzene

Concen: 1.759 ug/l

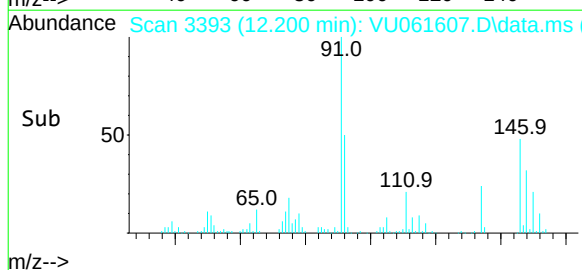
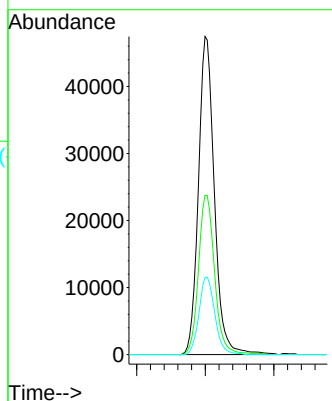
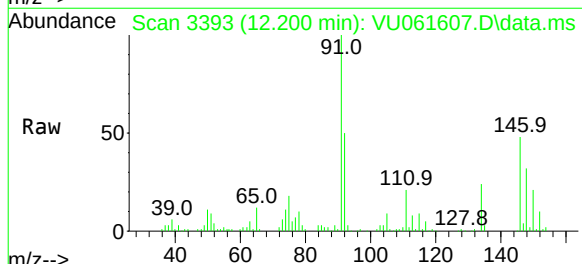
RT: 12.200 min Scan# 3393

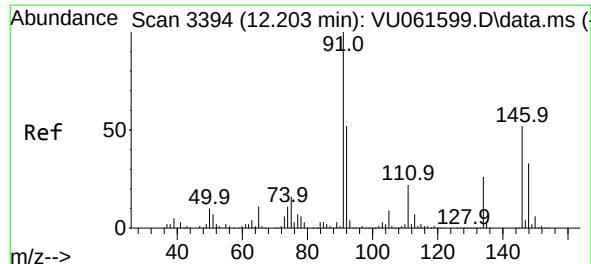
Delta R.T. -0.000 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion:	91	Resp:	76712
Ion	Ratio	Lower	Upper
91	100		
92	50.5	41.8	62.6
134	24.2	20.2	30.4





#85

1,2-Dichlorobenzene

Concen: 1.937 ug/l

RT: 12.206 min Scan# 3394

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

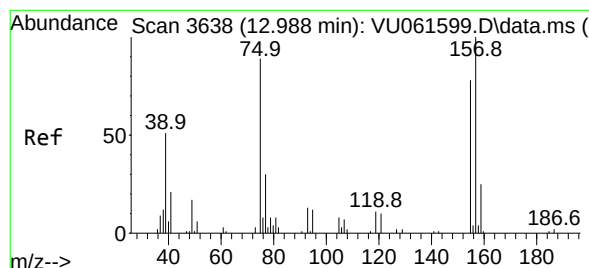
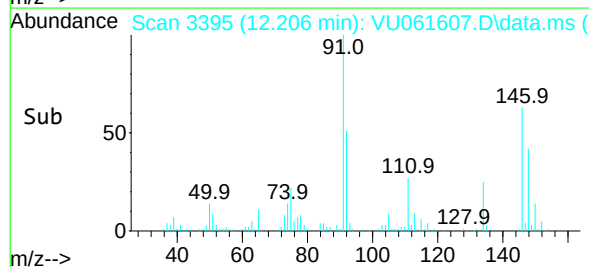
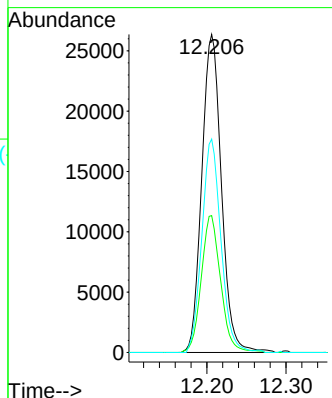
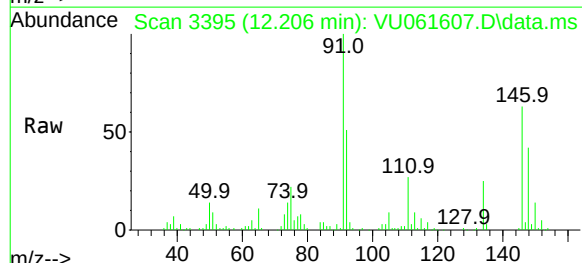
Instrument :

MSVOA_U

ClientSampleId :

VU1112WBS01

Tgt Ion:	146	Resp:	45435
Ion Ratio	Lower	Upper	
146	100		
111	42.4	21.3	63.9
148	65.2	32.0	96.2

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#86

1,2-Dibromo-3-Chloropropane

Concen: 1.834 ug/l

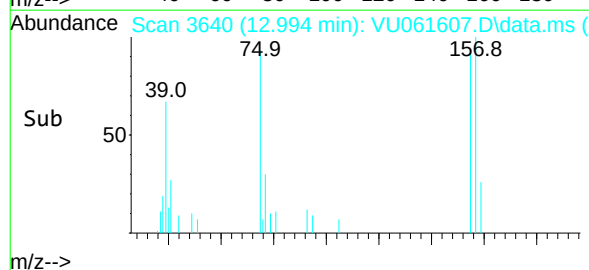
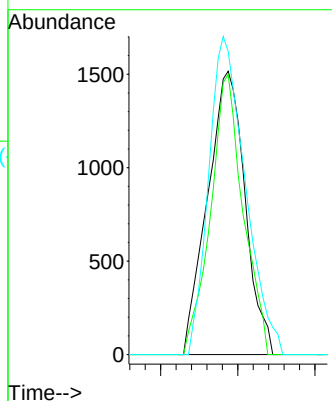
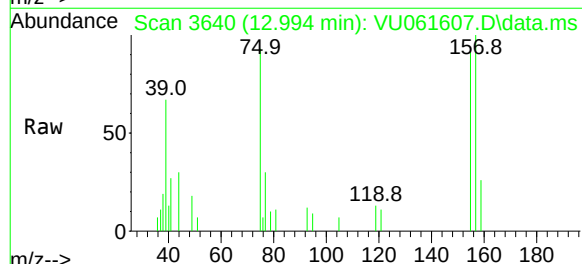
RT: 12.994 min Scan# 3640

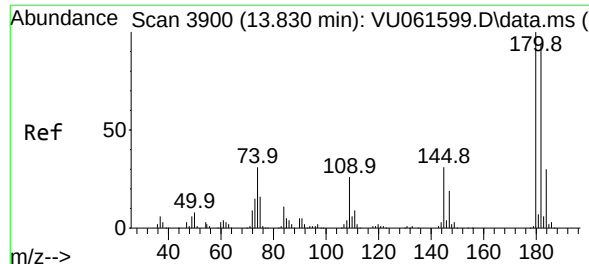
Delta R.T. 0.006 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion:	75	Resp:	2557
Ion Ratio	Lower	Upper	
75	100		
155	86.0	68.8	103.2
157	109.6	88.2	132.4





#87

1,2,4-Trichlorobenzene

Concen: 1.821 ug/l

RT: 13.836 min Scan# 39

Delta R.T. 0.006 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

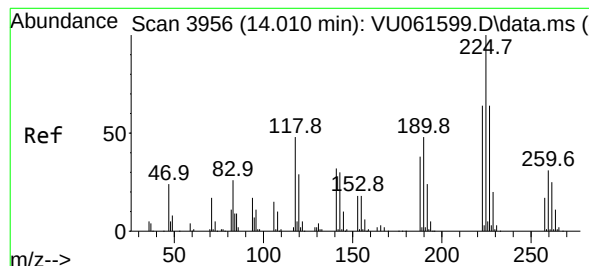
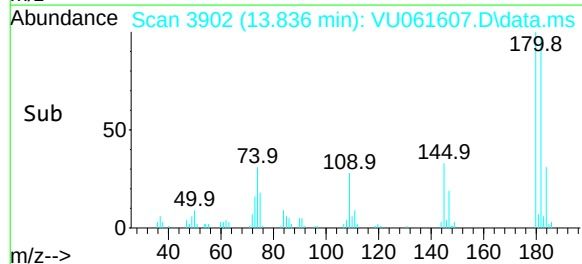
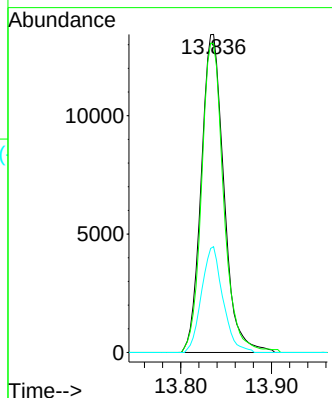
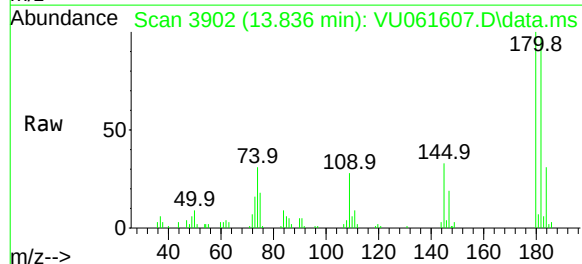
ClientSampleId :

VU1112WBS01

Tgt Ion:	180	Resp:	23333
Ion Ratio	Lower	Upper	
180	100		
182	94.9	75.3	112.9
145	31.4	24.3	36.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#88

Hexachlorobutadiene

Concen: 1.877 ug/l

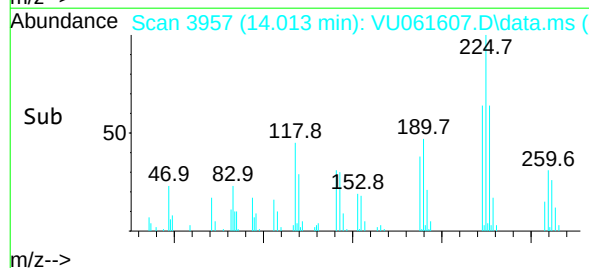
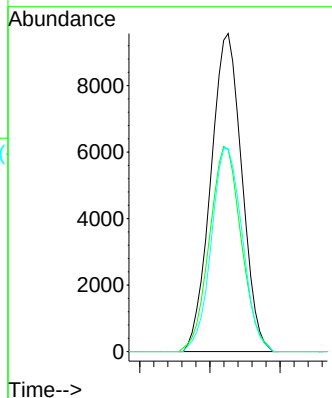
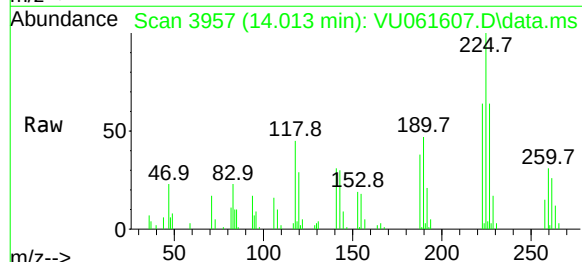
RT: 14.013 min Scan# 3957

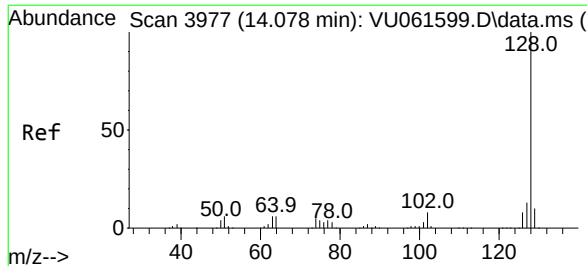
Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion:	225	Resp:	14700
Ion Ratio	Lower	Upper	
225	100		
223	66.1	50.8	76.2
227	63.9	51.2	76.8





#89

Naphthalene

Concen: 1.742 ug/l

RT: 14.084 min Scan# 39

Delta R.T. 0.006 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Instrument :

MSVOA_U

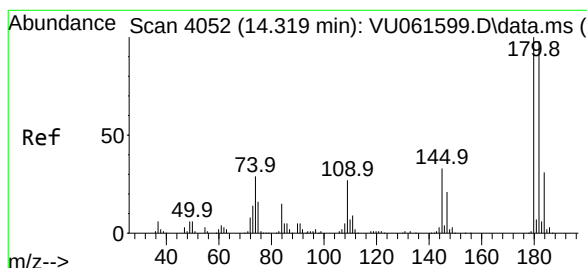
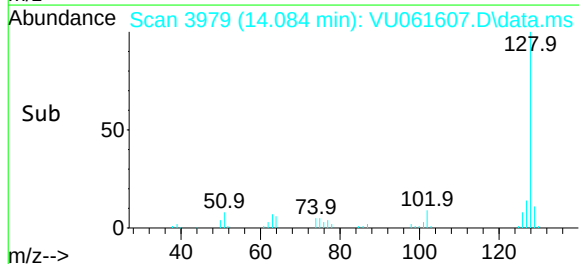
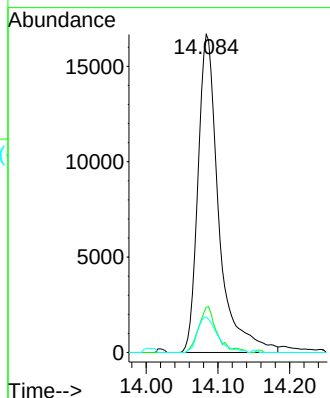
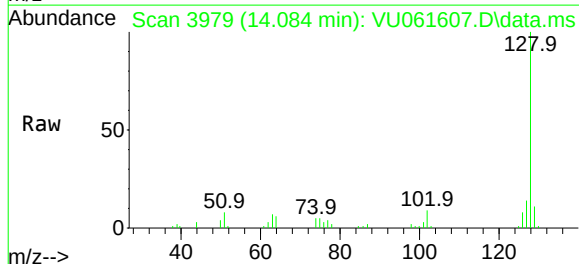
ClientSampleId :

VU1112WBS01

Tgt Ion:	128	Resp:	33527
Ion Ratio	Lower	Upper	
128	100		
127	12.0	10.3	15.5
129	10.8	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#90

1,2,3-Trichlorobenzene

Concen: 1.874 ug/l

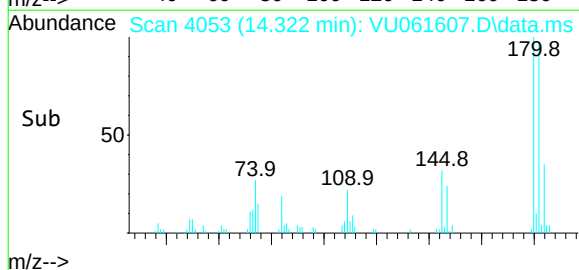
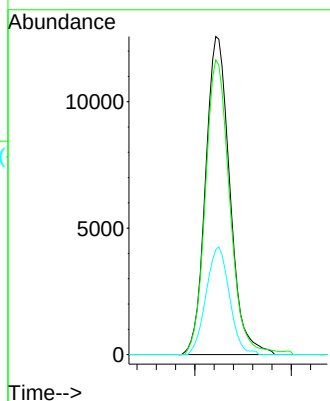
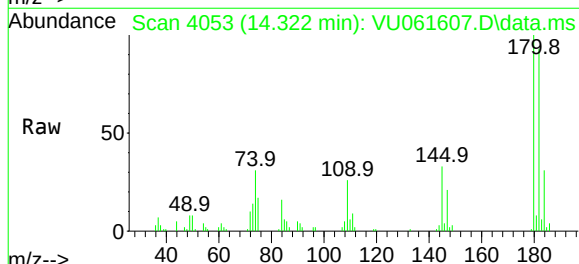
RT: 14.322 min Scan# 4053

Delta R.T. 0.003 min

Lab File: VU061607.D

Acq: 12 Nov 2024 17:24

Tgt Ion:	180	Resp:	22004
Ion Ratio	Lower	Upper	
180	100		
182	92.8	77.9	116.9
145	32.5	25.9	38.9



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Drinking Water PT	Date Received:	
Client Sample ID:	VU1112WBSD01	SDG No.:	P4635
Lab Sample ID:	VU1112WBSD01	Matrix:	Water
Analytical Method:	E524.2	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VU061608.D	1		11/12/24 17:49	VU111224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
67-66-3	Chloroform	1.90		0.13	0.50	ug/L
75-27-4	Bromodichloromethane	1.90		0.12	0.50	ug/L
124-48-1	Dibromochloromethane	1.80		0.13	0.50	ug/L
75-25-2	Bromoform	1.80		0.14	0.50	ug/L
SURROGATES						
2199-69-1	1,2-Dichlorobenzene-d4	0.98		70 - 130	98%	SPK: 1
460-00-4	4-Bromofluorobenzene	0.98		70 - 130	98%	SPK: 1
INTERNAL STANDARDS						
462-06-6	Fluorobenzene	45900	6.106			

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_U\Data\VU111224\
 Data File : VU061608.D
 Acq On : 12 Nov 2024 17:49
 Operator : MD/SY
 Sample : VU1112WBSD01
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1112WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 05:09:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 05:00:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.106	96	45920	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	15561	0.977	ug/l	0.00
Spiked Amount	1.000		Recovery	=	98.000%	
68) 1,2-Dichlorobenzene-d4	12.187	152	15575	0.981	ug/l	0.00
Spiked Amount	1.000		Recovery	=	98.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	21168	1.793	ug/l	99
3) Chloromethane	1.518	50	22045	1.953	ug/l	99
4) Vinyl Chloride	1.602	62	24205	1.906	ug/l	98
5) Bromomethane	1.853	94	15627	1.949	ug/l	97
6) Chloroethane	1.930	64	18573	1.808	ug/l	99
7) Trichlorofluoromethane	2.132	101	35135	1.933	ug/l	100
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	17897	1.839	ug/l	99
9) 1,1-Dichloroethene	2.573	96	19381	1.901	ug/l	98
10) Iodomethane	2.718	142	16073	1.969	ug/l	98
11) Allyl Chloride	2.917	41	21200	1.797	ug/l	95
12) Acrylonitrile	3.328	53	7593m	3.766	ug/l	
13) Acetone	2.647	43	15341	5.451	ug/l	98
14) Carbon Disulfide	2.788	76	59459	1.805	ug/l	99
15) Methylene Chloride	3.039	84	23778	1.931	ug/l	98
16) trans-1,2-Dichloroethene	3.348	96	22323	1.885	ug/l	98
17) 1,1-Dichloroethane	3.859	63	39378	1.865	ug/l	99
18) 2-Butanone	4.721	43	22814	6.991	ug/l	97
19) Cyclohexane	5.377	56	29951m	1.748	ug/l	
20) Methylcyclohexane	6.753	83	32334	1.683	ug/l	98
21) 2,2-Dichloropropane	4.650	77	28906	1.702	ug/l	99
22) cis-1,2-Dichloroethene	4.663	96	23944	1.853	ug/l	98
23) Diethyl Ether	2.370	59	14458	1.903	ug/l	98
24) tert-Butyl Alcohol	3.229	59	15794m	20.381	ug/l	
25) Methyl tert-Butyl Ether	3.357	73	47126	1.886	ug/l	100
26) Bromochloromethane	4.968	128	10754	1.889	ug/l	98
27) Chloroform	5.078	83	43046	1.922	ug/l	96
28) 1,1,1-Trichloroethane	5.306	97	33592	1.815	ug/l	98
29) 1,1-Dichloropropene	5.518	75	30441	1.831	ug/l	98
30) Carbon Tetrachloride	5.515	117	29191	1.840	ug/l	96
31) Isopropyl Ether	3.981	45	51634	1.837	ug/l	97
32) Ethyl-t-butyl ether	4.489	59	48901	1.820	ug/l	98
33) Tert-Amyl methyl ether	5.930	73	45491	1.873	ug/l	100
34) Propionitrile	4.801	54	6994m	8.925	ug/l	
35) Benzene	5.766	78	93703	1.891	ug/l	99
36) 1,2-Dichloroethane	5.788	62	26564	1.929	ug/l	99
37) Trichloroethene	6.537	130	24715	1.883	ug/l	93
38) 1,2-Dichloropropane	6.782	63	23828	1.915	ug/l	97
39) Methacrylonitrile	4.981	41	4859	1.788	ug/l	96
40) Methyl acrylate	4.872	55	10214m	2.038	ug/l	
41) Tetrahydrofuran	5.061	42	5433	3.524	ug/l	# 72
42) 1-Chlorobutane	5.451	56	38129	1.838	ug/l	96
43) Dibromomethane	6.913	93	12216	1.854	ug/l	97
44) Bromodichloromethane	7.097	83	27767	1.866	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111224\
 Data File : VU061608.D
 Acq On : 12 Nov 2024 17:49
 Operator : MD/SY
 Sample : VU1112WBSD01
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1112WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
 Supervised By :Mahesh Dadoda 11/13/2024

Quant Time: Nov 13 05:09:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 05:00:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.785	43	55091	8.987	ug/l	97
46) t-1,4-Dichloro-2-butene	10.817	75	13003m	3.876	ug/l	
47) Methyl methacrylate	6.958	69	17894	3.421	ug/l	93
48) Ethyl methacrylate	8.328	69	19141	1.800	ug/l	99
49) Toluene	7.962	92	55410	1.831	ug/l	99
50) t-1,3-Dichloropropene	8.206	75	22674	1.703	ug/l	99
51) cis-1,3-Dichloropropene	7.602	75	29163	1.707	ug/l	94
52) 1,1,2-Trichloroethane	8.393	97	17024	1.885	ug/l	98
53) 1,3-Dichloropropane	8.569	76	29181	1.893	ug/l	100
54) 2-Hexanone	8.685	43	36935	7.072	ug/l	98
55) Dibromochloromethane	8.801	129	17594	1.799	ug/l	100
56) 1,2-Dibromoethane	8.917	107	15741	1.854	ug/l	98
58) Tetrachloroethene	8.547	164	21673	1.836	ug/l	96
59) Chlorobenzene	9.441	112	62389	1.866	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.528	131	20177	1.829	ug/l	99
61) Pentachloroethane	11.418	117	14816	1.785	ug/l	93
62) Hexachloroethane	12.466	117	13081	1.769	ug/l	95
63) Ethyl Benzene	9.563	91	100140	1.779	ug/l	99
64) m/p-Xylenes	9.685	106	75974	3.505	ug/l	98
65) o-Xylene	10.093	106	38191	1.807	ug/l	98
66) Styrene	10.110	104	59106	1.772	ug/l	99
67) Bromoform	10.283	173	9064	1.787	ug/l	99
69) Isopropylbenzene	10.476	105	87120	1.762	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.772	83	19884	1.788	ug/l	98
71) 1,2,3-Trichloropropane	10.817	75	16801m	1.877	ug/l	
72) Bromobenzene	10.778	156	24104	1.839	ug/l	98
73) n-propylbenzene	10.897	120	24999	1.710	ug/l	97
74) 2-Chlorotoluene	10.978	126	24017	1.842	ug/l	100
75) 1,3,5-Trimethylbenzene	11.081	105	78326	1.750	ug/l	99
76) 4-Chlorotoluene	11.090	126	23841	1.778	ug/l	95
77) tert-Butylbenzene	11.412	119	76726	1.756	ug/l	98
78) 1,2,4-Trimethylbenzene	11.460	105	79279	1.716	ug/l	99
79) sec-Butylbenzene	11.634	105	101695	1.756	ug/l	100
80) Nitrobenzene	13.222	77	1212	9.771	ug/l #	80
81) p-Isopropyltoluene	11.785	119	81390	1.696	ug/l	99
82) 1,3-Dichlorobenzene	11.740	146	46110	1.819	ug/l	99
83) 1,4-Dichlorobenzene	11.830	146	44423	1.751	ug/l	97
84) n-Butylbenzene	12.199	91	72971	1.657	ug/l	99
85) 1,2-Dichlorobenzene	12.206	146	43775	1.829	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.994	75	2273	1.646	ug/l	96
87) 1,2,4-Trichlorobenzene	13.836	180	23775	1.819	ug/l	99
88) Hexachlorobutadiene	14.013	225	14080	1.762	ug/l	99
89) Naphthalene	14.084	128	36778	1.829	ug/l	97
90) 1,2,3-Trichlorobenzene	14.325	180	22019	1.847	ug/l	97

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

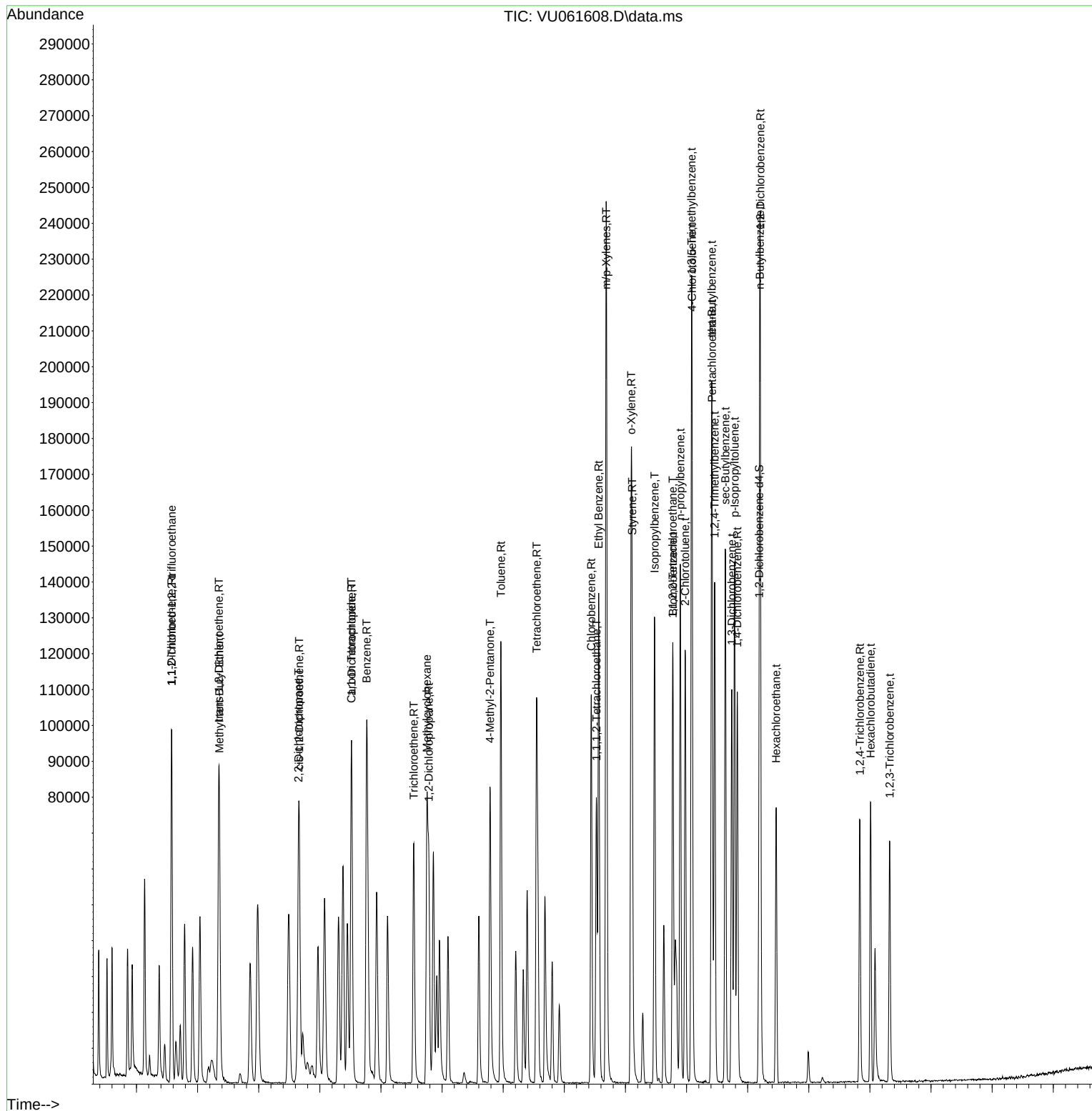
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 Acq On : 12 Nov 2024 17:49
 Operator : MD/SY
 Sample : VU1112WBSD01
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

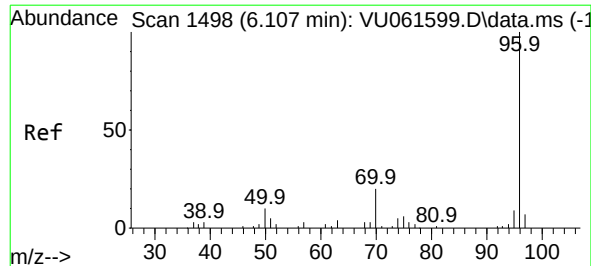
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1112WBSD01

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024
 Supervised By : Mahesh Dadoda 11/13/2024

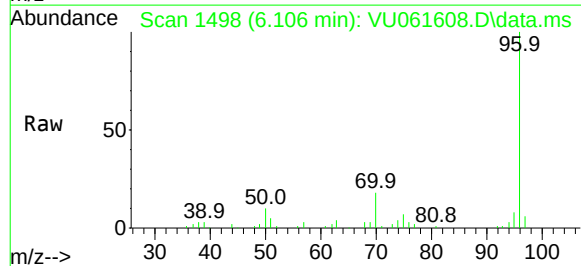
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U111224DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Nov 13 05:00:10 2024
 Response via : Initial Calibration





#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.106 min Scan# 14
Delta R.T. -0.001 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

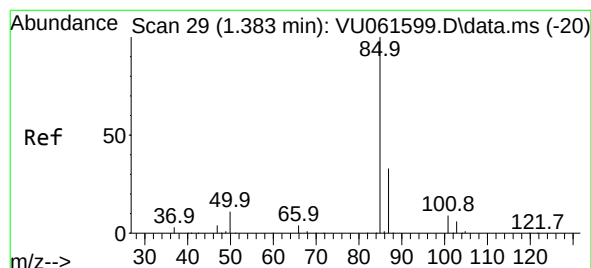
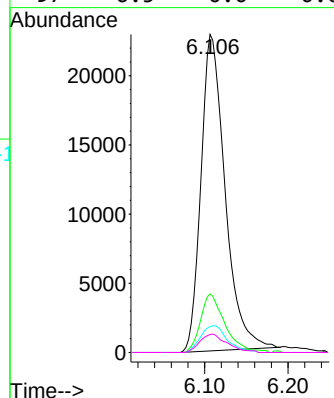
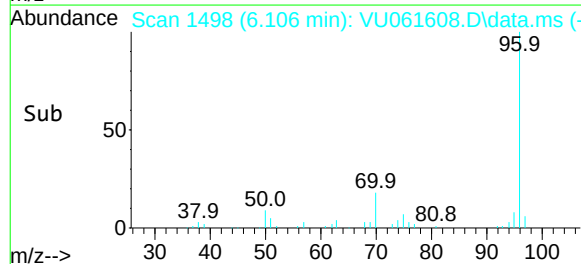
Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01



Tgt Ion: 96 Resp: 45920
Ion Ratio Lower Upper
96 100
70 18.7 15.8 23.6
95 9.4 7.3 10.9
97 6.5 0.0 0.0#

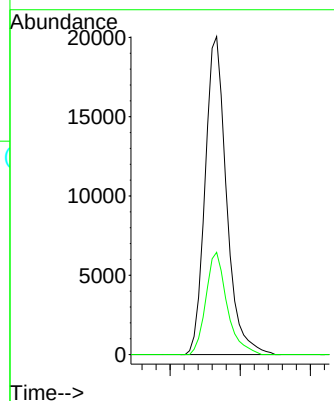
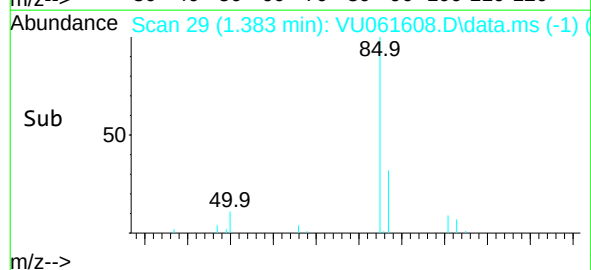
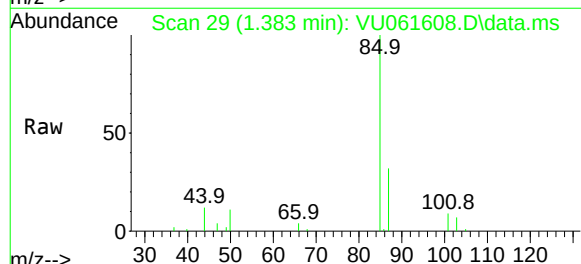
Manual Integrations
APPROVED

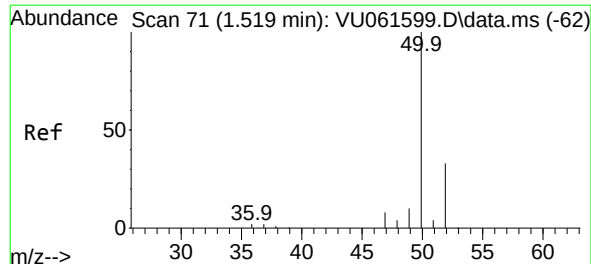
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#2
Dichlorodifluoromethane
Concen: 1.793 ug/l
RT: 1.383 min Scan# 29
Delta R.T. -0.000 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Tgt Ion: 85 Resp: 21168
Ion Ratio Lower Upper
85 100
87 32.2 16.4 49.2





#3

Chloromethane

Concen: 1.953 ug/l

RT: 1.518 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 50 Resp: 22045

Ion Ratio Lower Upper

50 100

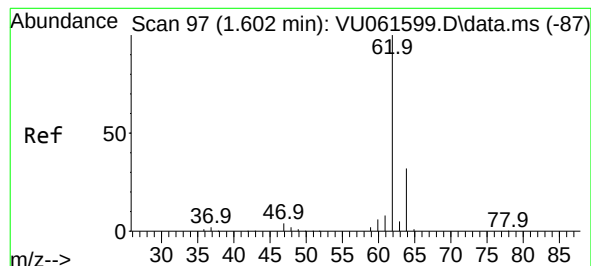
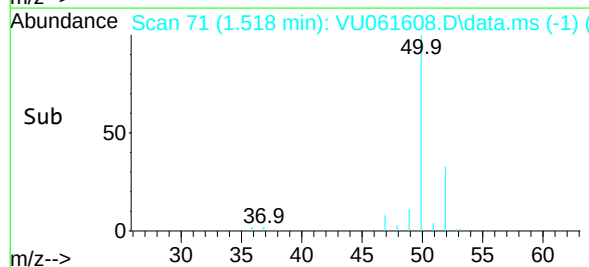
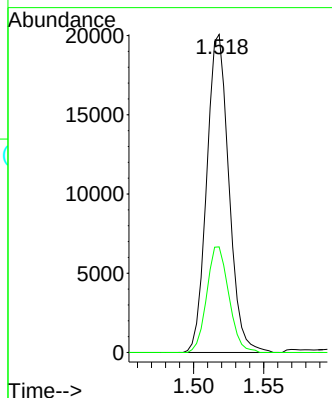
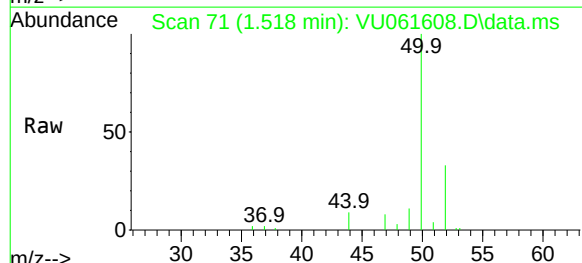
52 33.2 26.8 40.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#4

Vinyl Chloride

Concen: 1.906 ug/l

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU061608.D

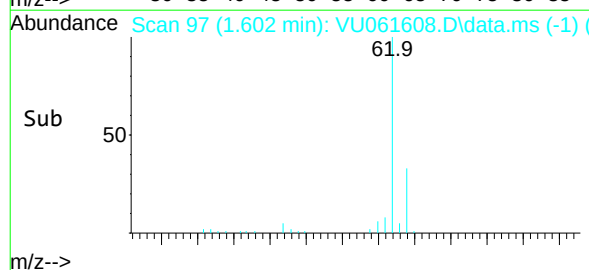
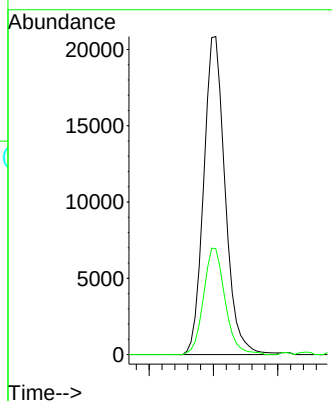
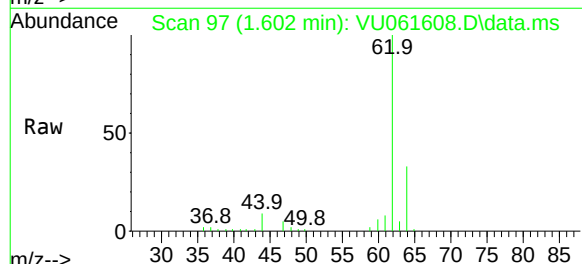
Acq: 12 Nov 2024 17:49

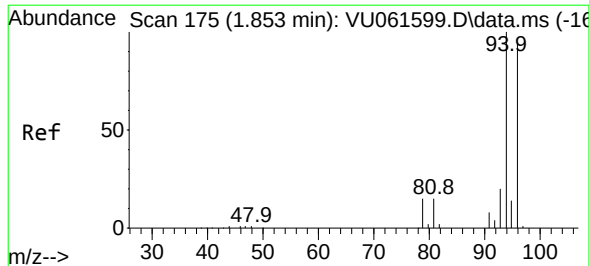
Tgt Ion: 62 Resp: 24205

Ion Ratio Lower Upper

62 100

64 33.4 25.6 38.4





#5

Bromomethane

Concen: 1.949 ug/l

RT: 1.853 min Scan# 175

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 94 Resp: 15627

Ion Ratio Lower Upper

94 100

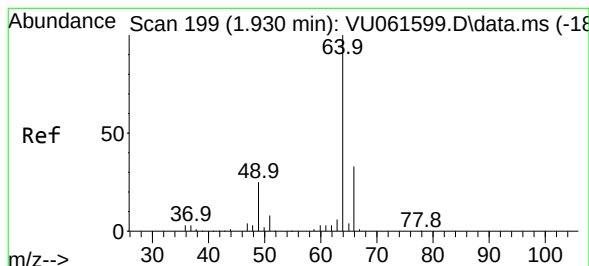
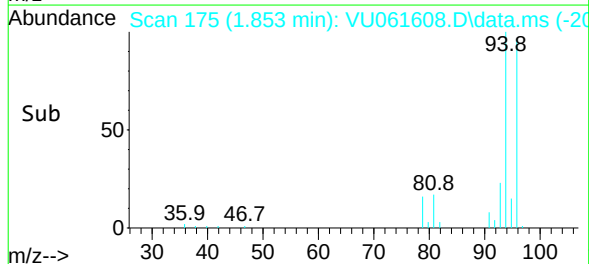
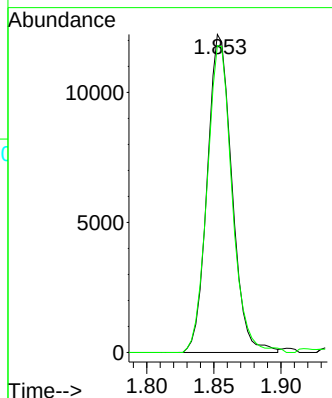
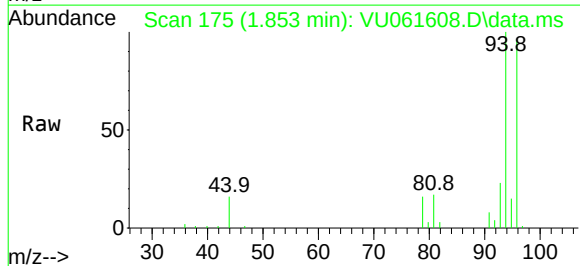
96 96.5 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#6

Chloroethane

Concen: 1.808 ug/l

RT: 1.930 min Scan# 199

Delta R.T. -0.000 min

Lab File: VU061608.D

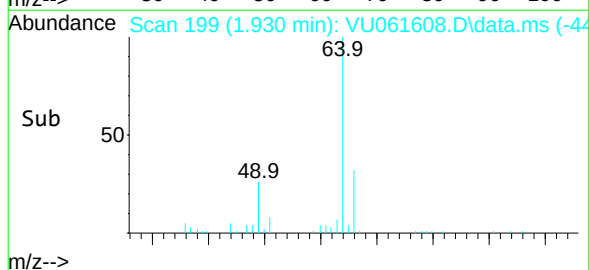
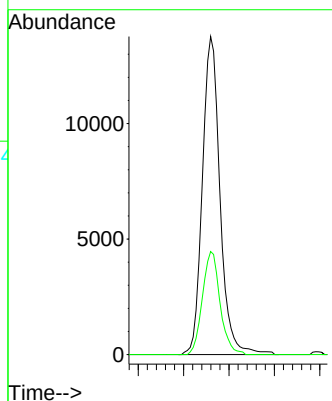
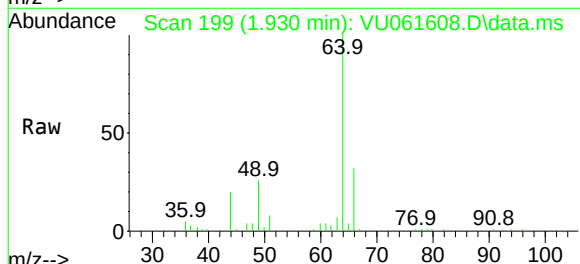
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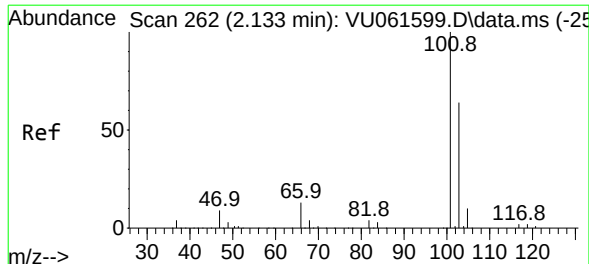
Tgt Ion: 64 Resp: 18573

Ion Ratio Lower Upper

64 100

66 32.4 26.2 39.2





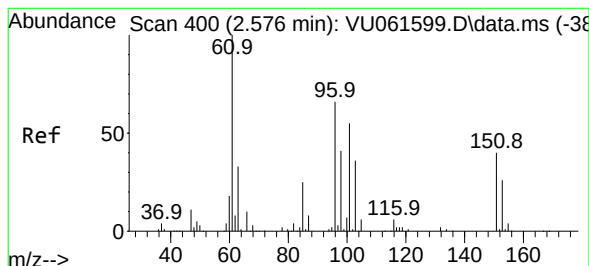
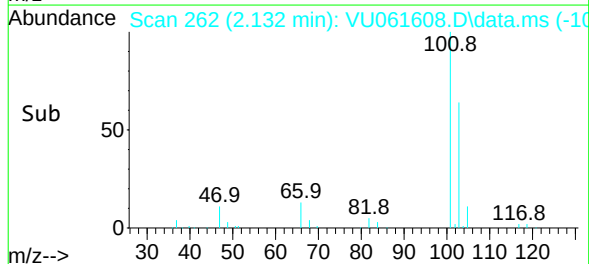
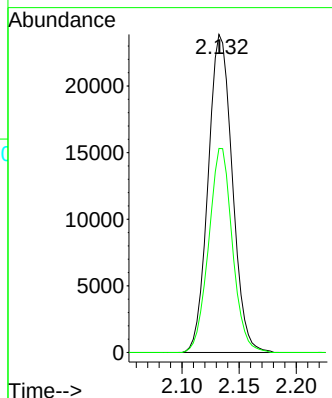
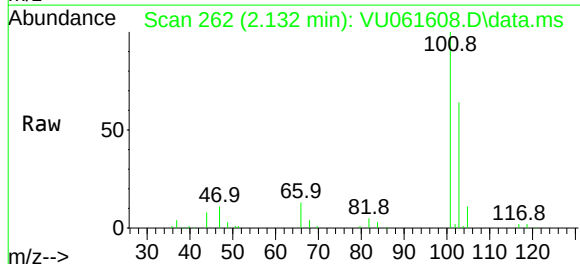
#7
Trichlorofluoromethane
Concen: 1.933 ug/l
RT: 2.132 min Scan# 261
Delta R.T. -0.000 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01

Tgt Ion:101 Resp: 35135
Ion Ratio Lower Upper
101 100
103 64.2 51.4 77.2

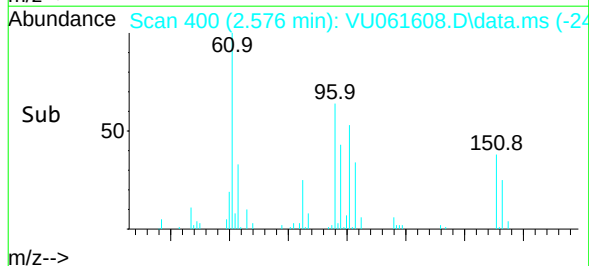
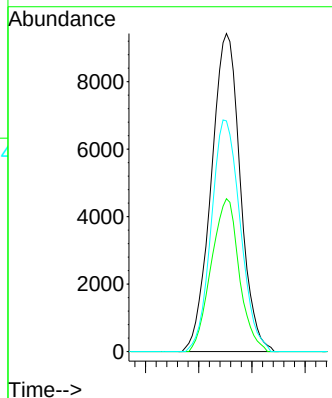
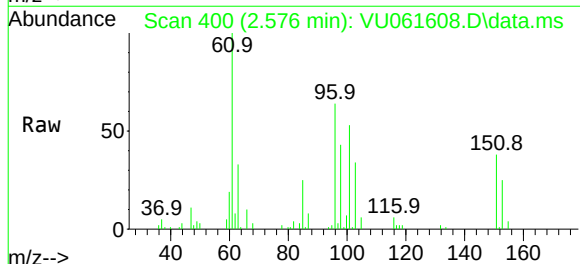
Manual Integrations
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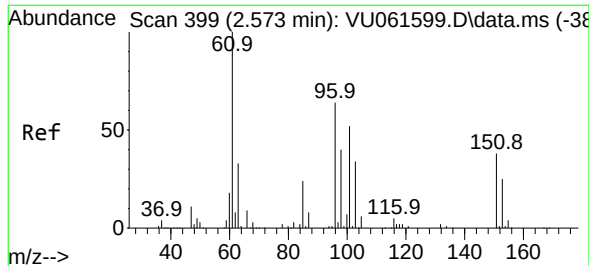
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#8
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.839 ug/l
RT: 2.576 min Scan# 400
Delta R.T. -0.000 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Tgt Ion:101 Resp: 17897
Ion Ratio Lower Upper
101 100
85 46.3 36.0 54.0
151 72.6 58.6 87.8





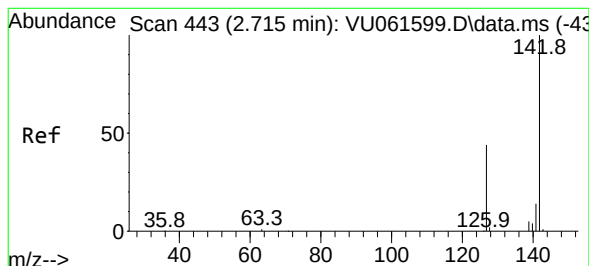
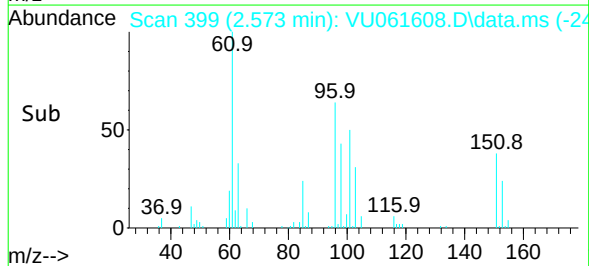
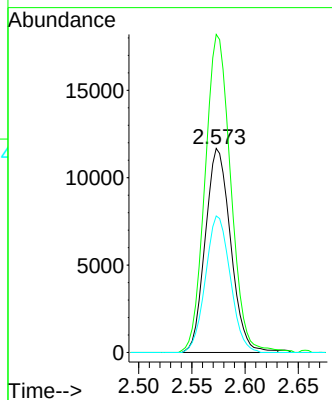
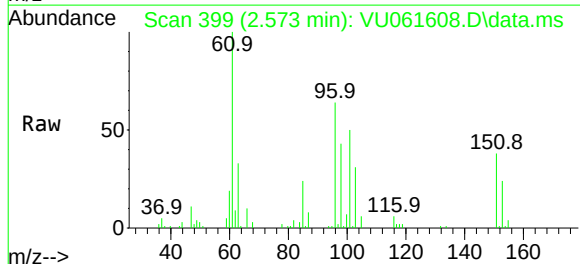
#9
1,1-Dichloroethene
Concen: 1.901 ug/l
RT: 2.573 min Scan# 399
Delta R.T. -0.000 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01

Tgt Ion: 96 Resp: 19381
Ion Ratio Lower Upper
96 100
61 155.9 0.0 467.7
98 66.9 0.0 125.4

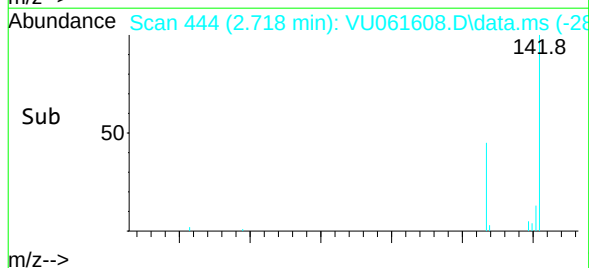
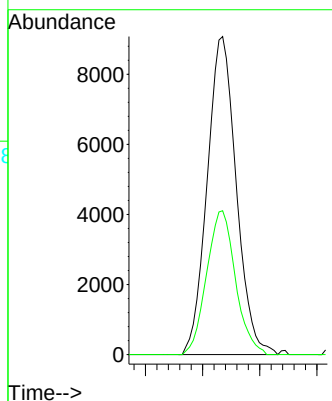
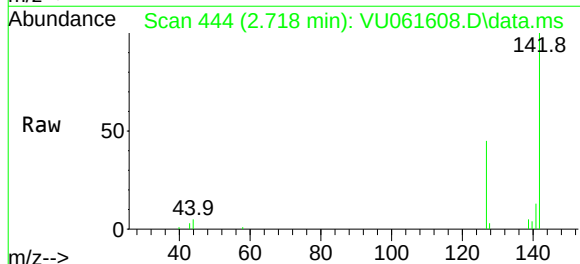
Manual Integrations
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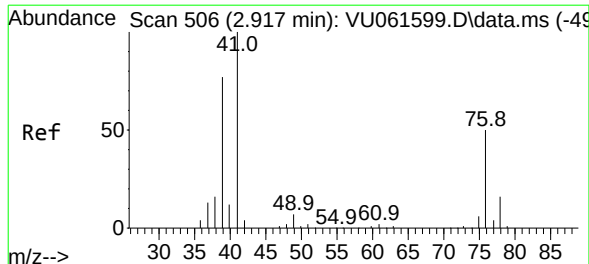
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#10
Iodomethane
Concen: 1.969 ug/l
RT: 2.718 min Scan# 444
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Tgt Ion:142 Resp: 16073
Ion Ratio Lower Upper
142 100
127 44.8 34.8 52.2





#11

Allyl Chloride

Concen: 1.797 ug/l

RT: 2.917 min Scan# 506

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion: 41 Resp: 21200

Ion Ratio Lower Upper

41 100

39 82.3 62.2 93.4

Instrument :

MSVOA_U

ClientSampleId :

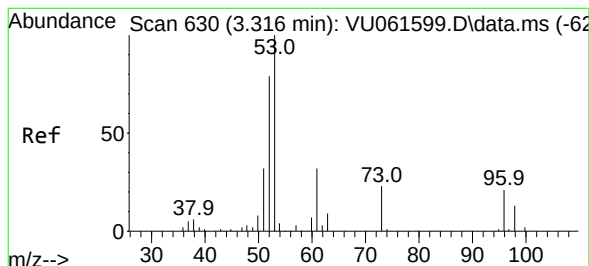
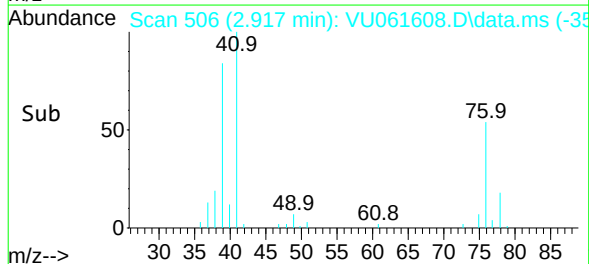
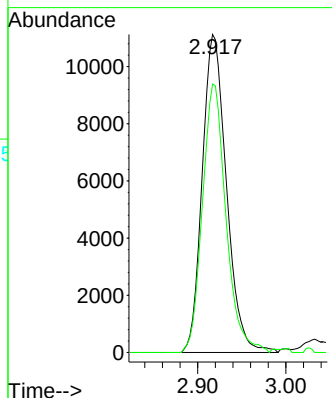
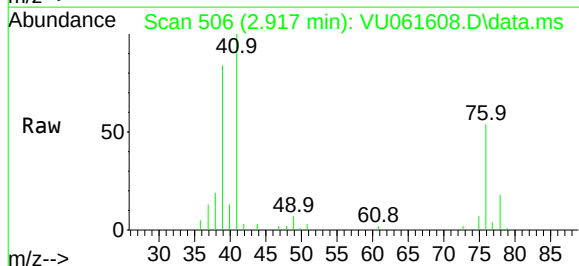
VU1112WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#12

Acrylonitrile

Concen: 3.766 ug/l m

RT: 3.328 min Scan# 634

Delta R.T. 0.013 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

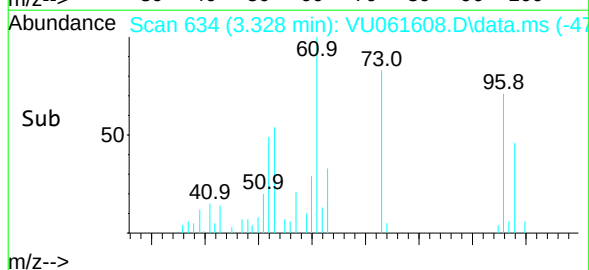
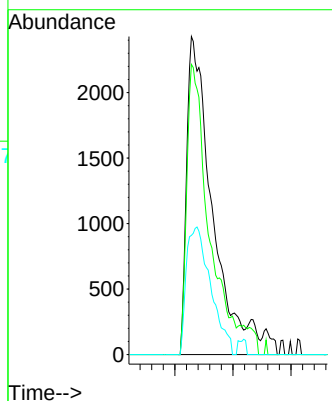
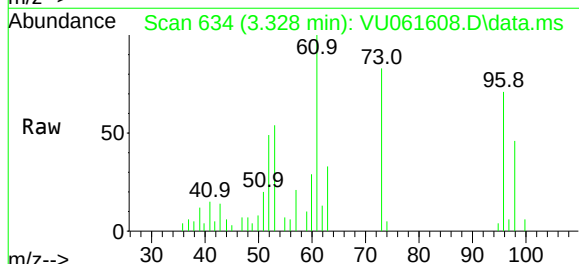
Tgt Ion: 53 Resp: 7593

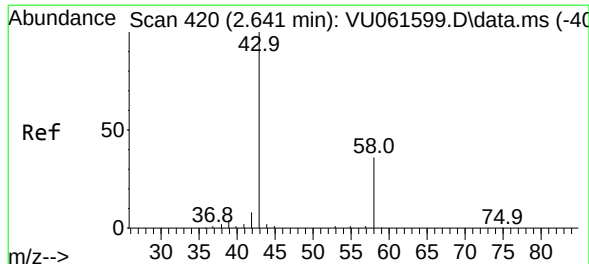
Ion Ratio Lower Upper

53 100

52 75.5 62.1 93.1

51 37.2 30.9 46.3





#13

Acetone

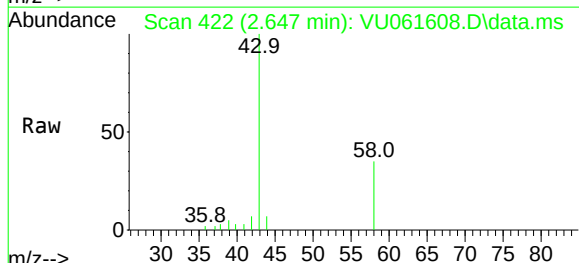
Concen: 5.451 ug/l

RT: 2.647 min Scan# 420

Delta R.T. 0.006 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49



Tgt Ion: 43 Resp: 15341

Ion Ratio Lower Upper

43 100

58 34.7 28.5 42.7

Instrument :

MSVOA_U

ClientSampleId :

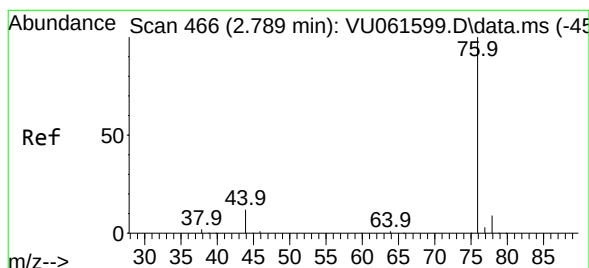
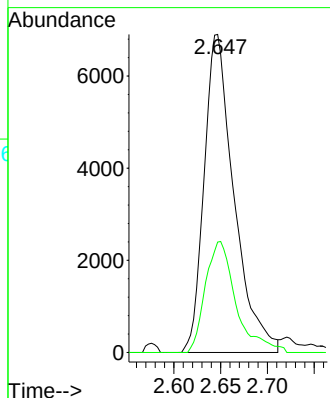
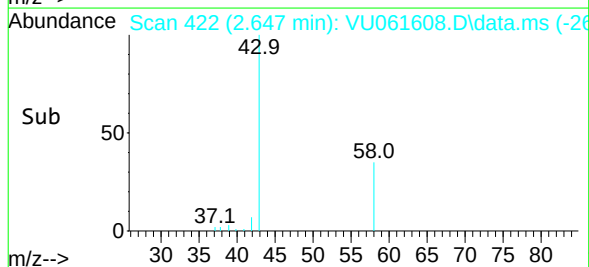
VU1112WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#14

Carbon Disulfide

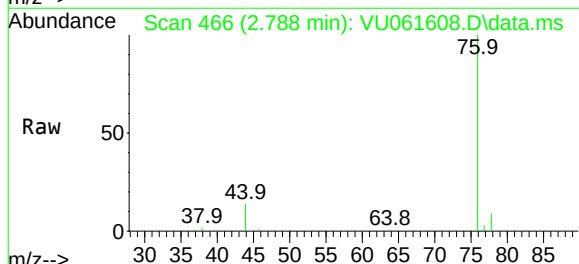
Concen: 1.805 ug/l

RT: 2.788 min Scan# 466

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

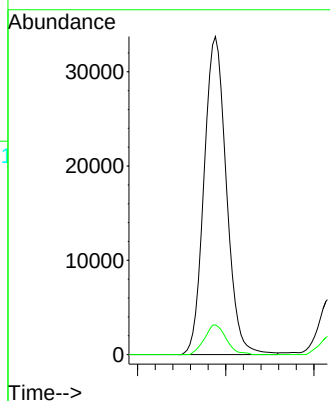
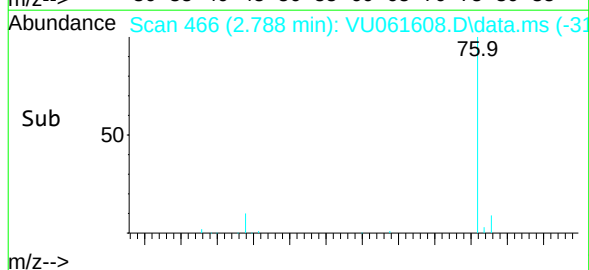


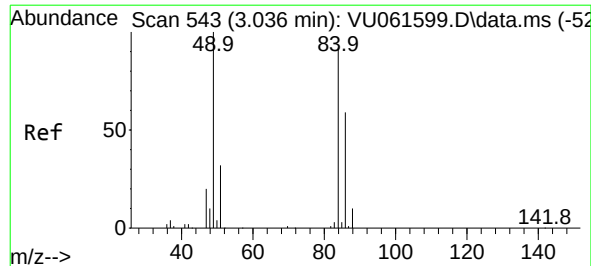
Tgt Ion: 76 Resp: 59459

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9





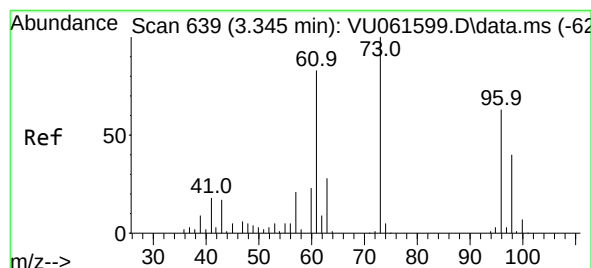
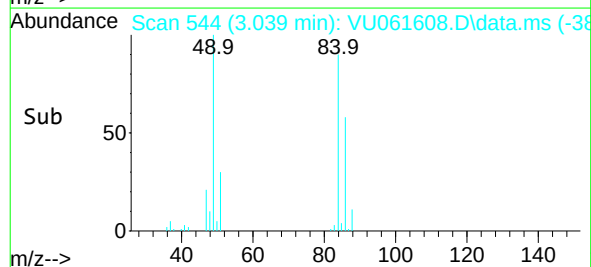
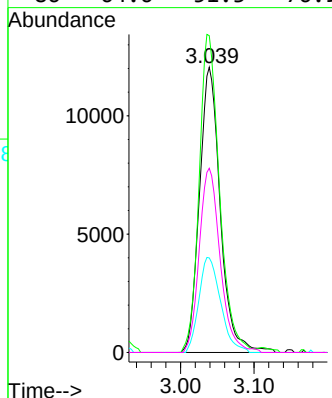
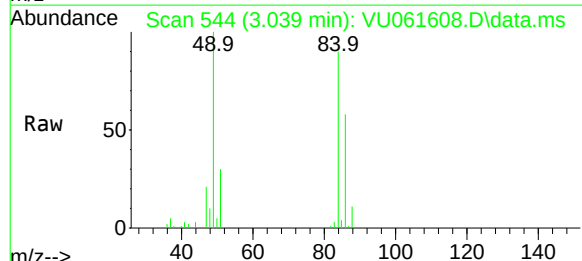
#15
Methylene Chloride
Concen: 1.931 ug/l
RT: 3.039 min Scan# 543
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01

Tgt Ion:	84	Resp:	23778
Ion	Ratio	Lower	Upper
84	100		
49	111.1	87.4	131.0
51	33.1	0.0	69.6
86	64.6	51.3	76.9

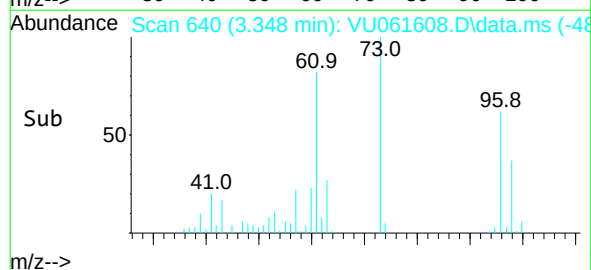
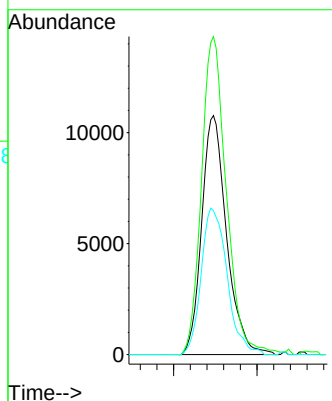
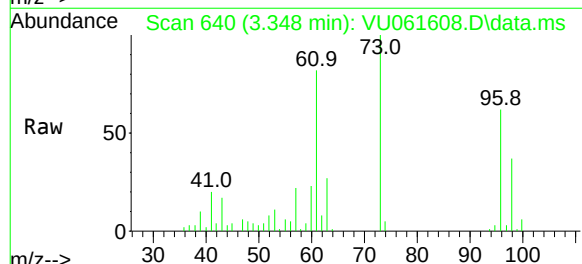
Manual Integrations
APPROVED

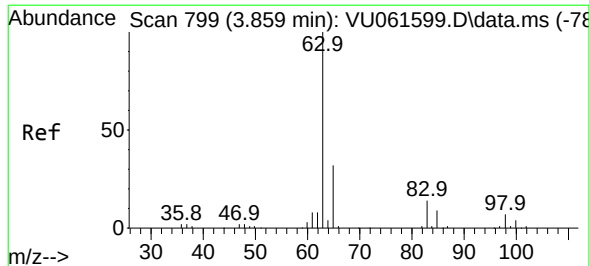
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#16
trans-1,2-Dichloroethene
Concen: 1.885 ug/l
RT: 3.348 min Scan# 640
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Tgt Ion:	96	Resp:	22323
Ion	Ratio	Lower	Upper
96	100		
61	133.1	105.0	157.4
98	60.2	50.4	75.6





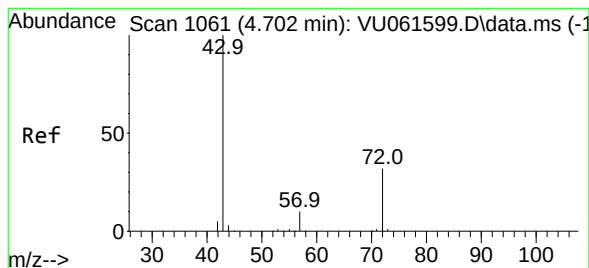
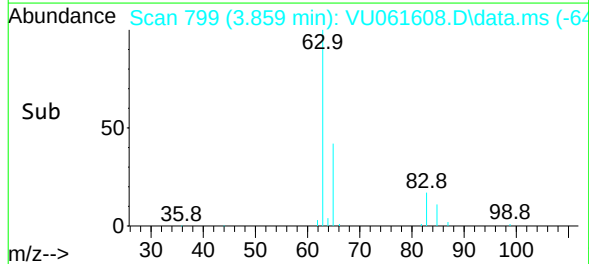
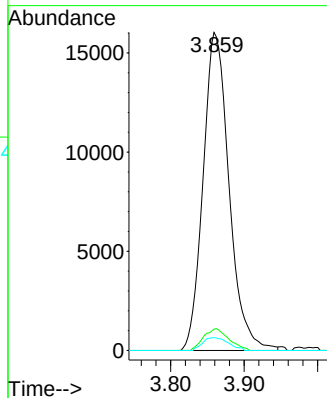
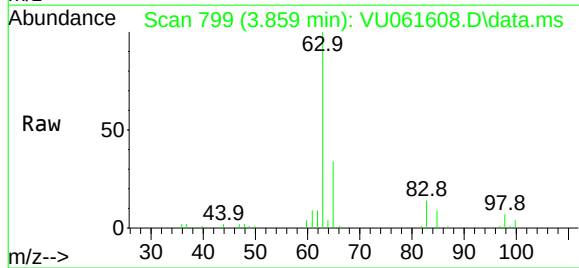
#17
1,1-Dichloroethane
Concen: 1.865 ug/l
RT: 3.859 min Scan# 799
Delta R.T. -0.000 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.4	10.2
100	4.0	2.2	6.6

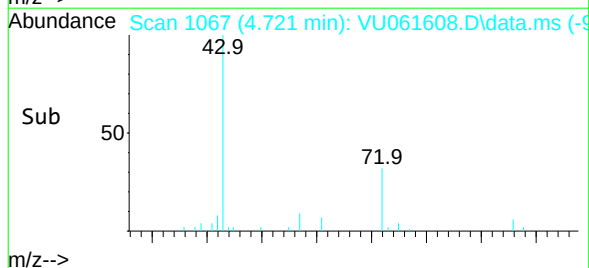
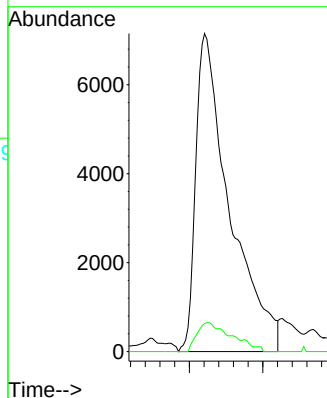
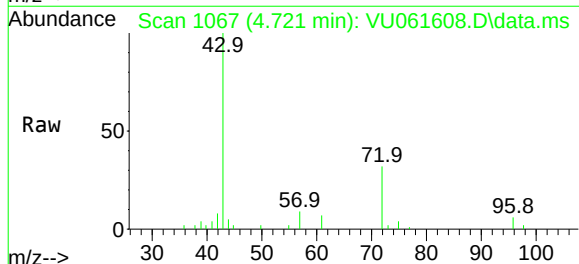
Manual Integrations
APPROVED

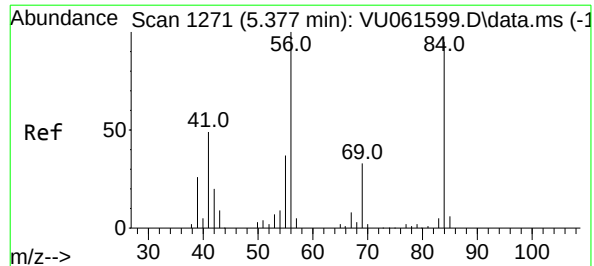
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#18
2-Butanone
Concen: 6.991 ug/l
RT: 4.721 min Scan# 1067
Delta R.T. 0.019 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.8	0.0	20.0





#19

Cyclohexane

Concen: 1.748 ug/l m

RT: 5.377 min Scan# 12

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 56 Resp: 29951

Ion Ratio Lower Upper

56 100

69 32.0 26.3 39.5

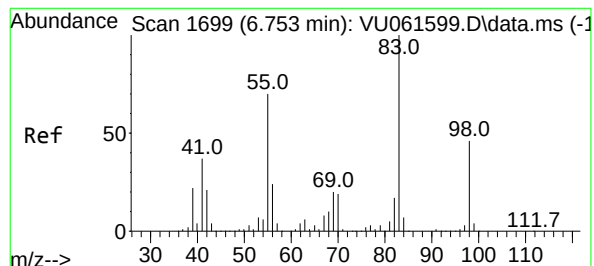
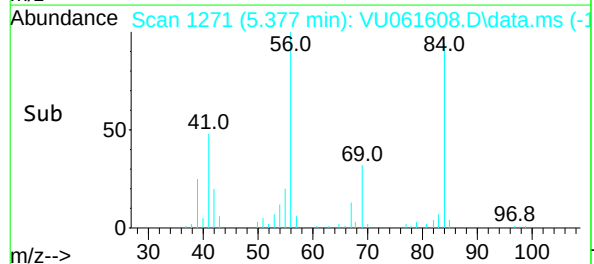
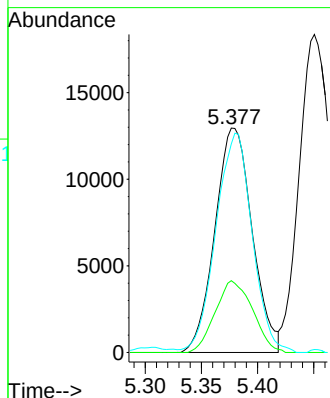
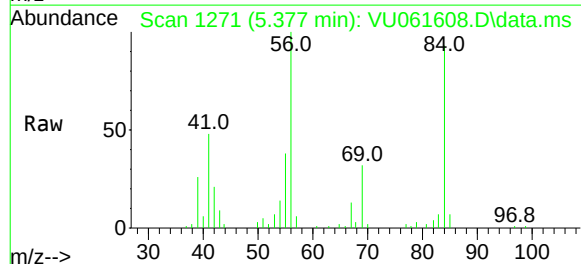
84 93.4 73.4 110.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#20

Methylcyclohexane

Concen: 1.683 ug/l

RT: 6.753 min Scan# 1699

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

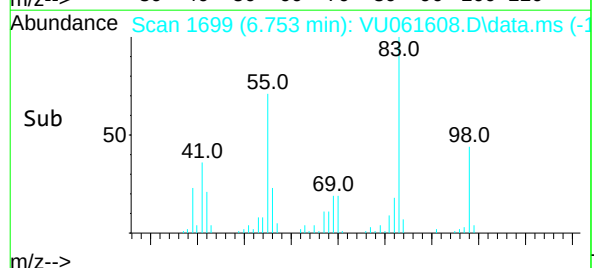
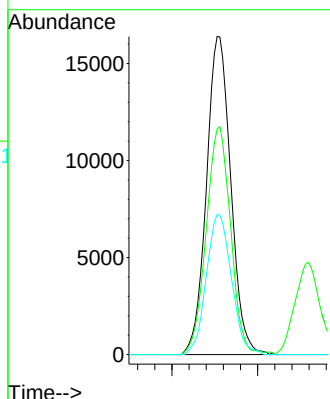
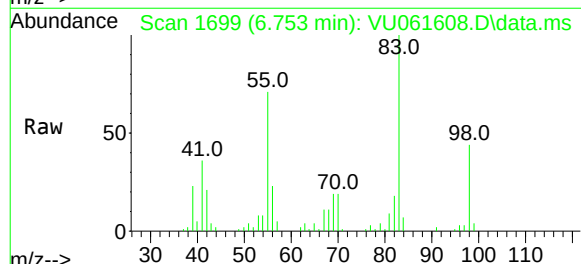
Tgt Ion: 83 Resp: 32334

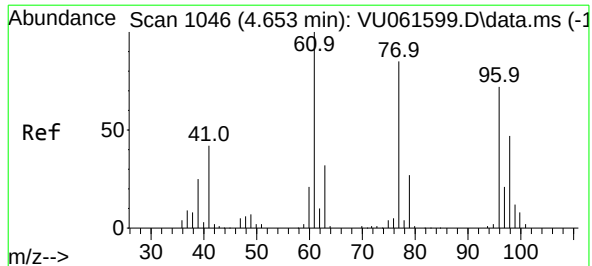
Ion Ratio Lower Upper

83 100

55 72.0 55.5 83.3

98 45.4 36.8 55.2





#21

2,2-Dichloropropane

Concen: 1.702 ug/l

RT: 4.650 min Scan# 1045

Delta R.T. -0.004 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 77 Resp: 28906

Ion Ratio Lower Upper

77 100

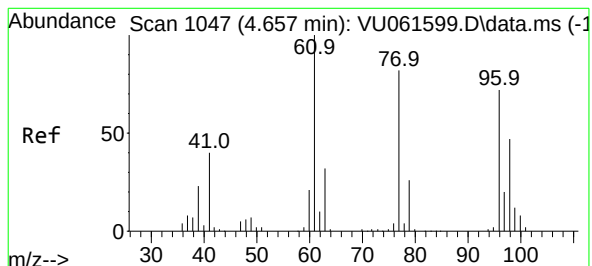
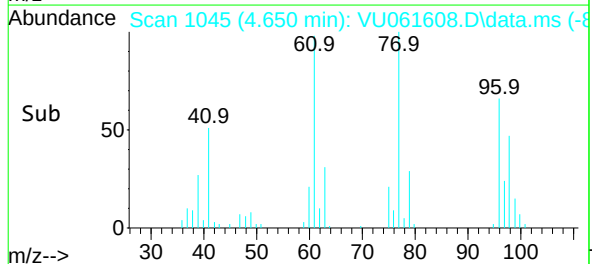
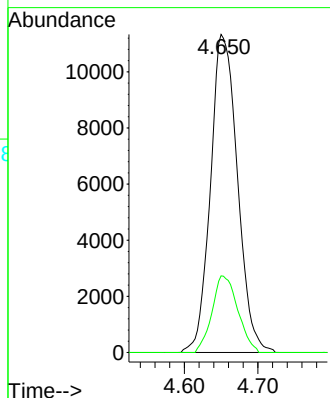
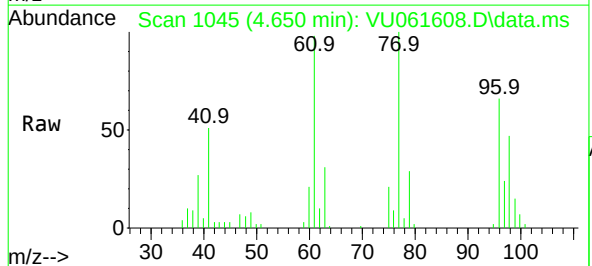
97 23.0 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#22

cis-1,2-Dichloroethene

Concen: 1.853 ug/l

RT: 4.663 min Scan# 1049

Delta R.T. 0.006 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

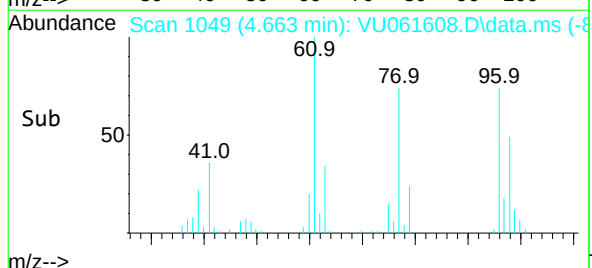
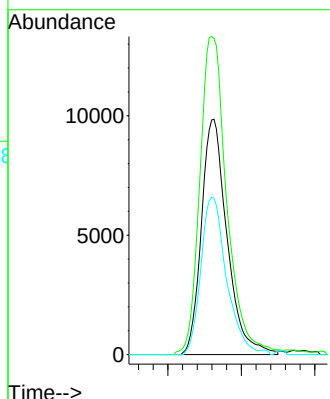
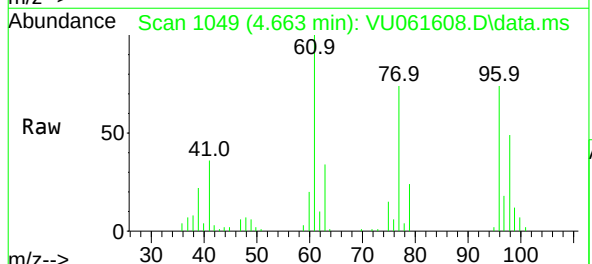
Tgt Ion: 96 Resp: 23944

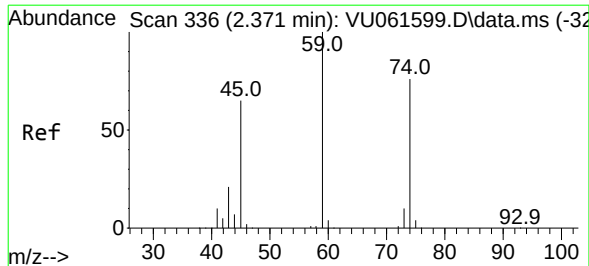
Ion Ratio Lower Upper

96 100

61 142.2 0.0 349.5

98 66.4 32.5 97.5





#23

Diethyl Ether

Concen: 1.903 ug/l

RT: 2.370 min Scan# 336

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 59 Resp: 14458

Ion Ratio Lower Upper

59 100

45 69.2 53.8 80.6

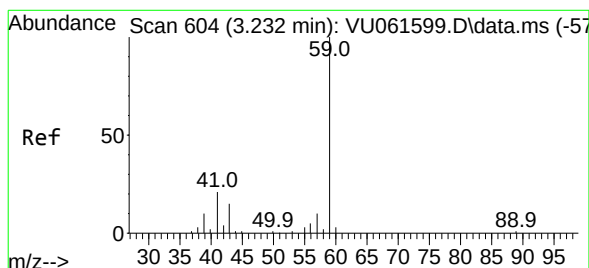
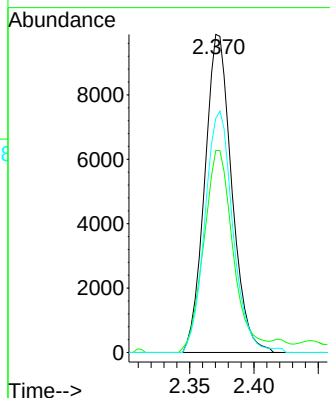
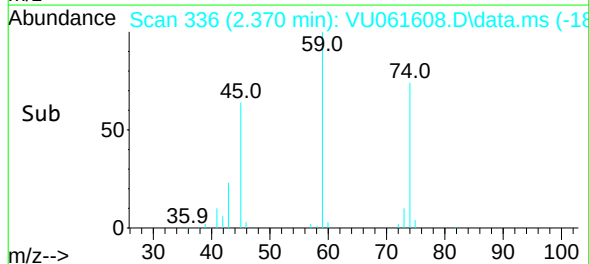
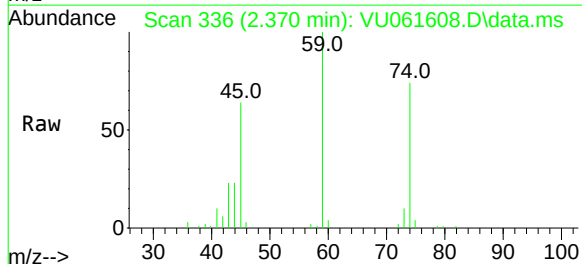
74 78.8 62.1 93.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#24

tert-Butyl Alcohol

Concen: 20.381 ug/l m

RT: 3.229 min Scan# 603

Delta R.T. -0.004 min

Lab File: VU061608.D

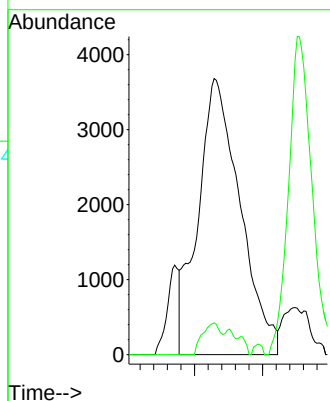
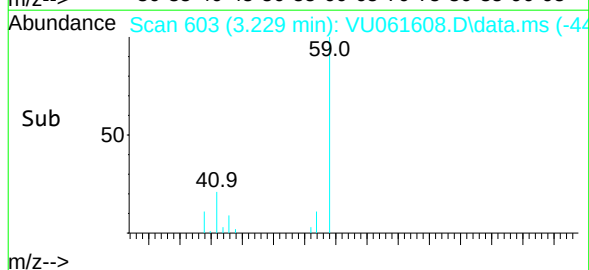
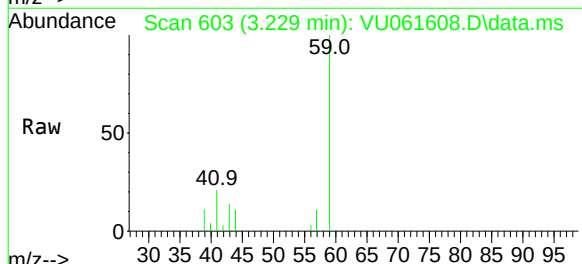
Acq: 12 Nov 2024 17:49

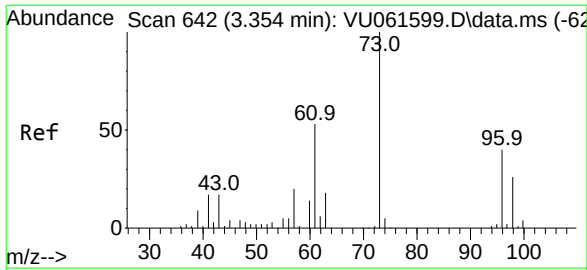
Tgt Ion: 59 Resp: 15794

Ion Ratio Lower Upper

59 100

57 5.0 7.9 11.9#





#25

Methyl tert-Butyl Ether

Concen: 1.886 ug/l

RT: 3.357 min Scan# 642

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 73 Resp: 47126

Ion Ratio Lower Upper

73 100

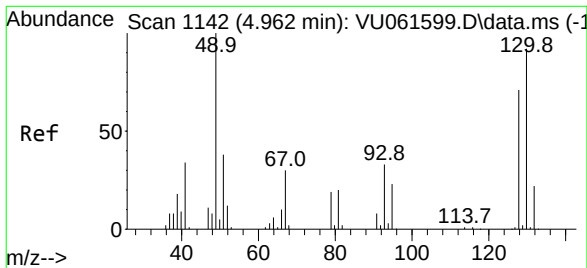
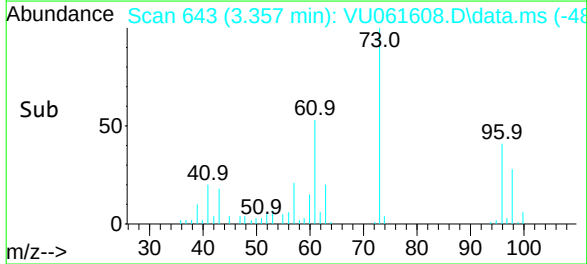
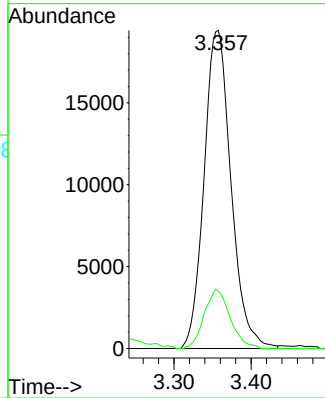
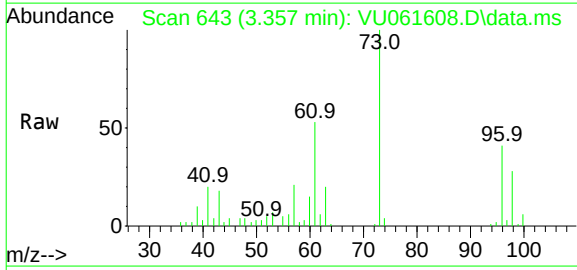
43 17.9 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#26

Bromochloromethane

Concen: 1.889 ug/l

RT: 4.968 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

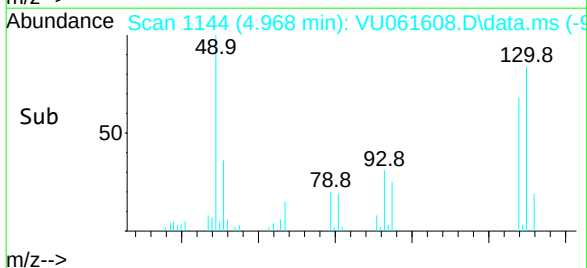
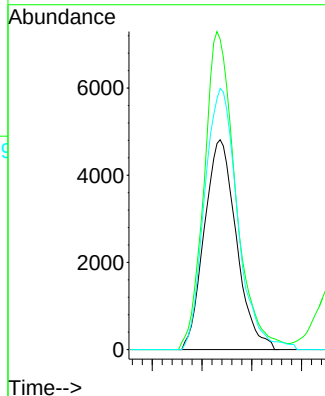
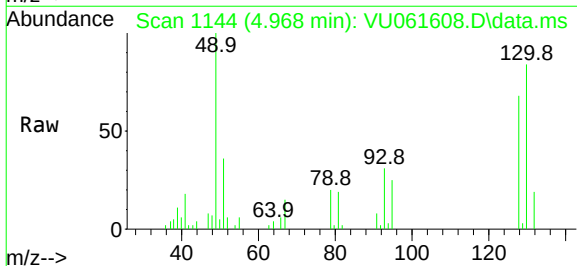
Tgt Ion:128 Resp: 10754

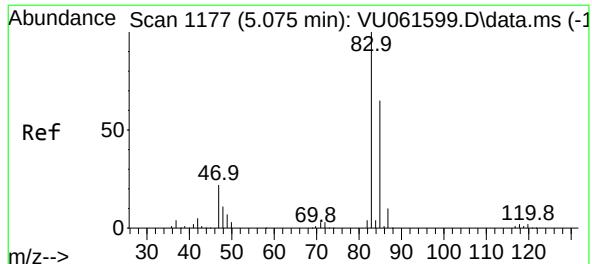
Ion Ratio Lower Upper

128 100

49 148.4 0.0 288.8

130 128.9 103.6 155.4





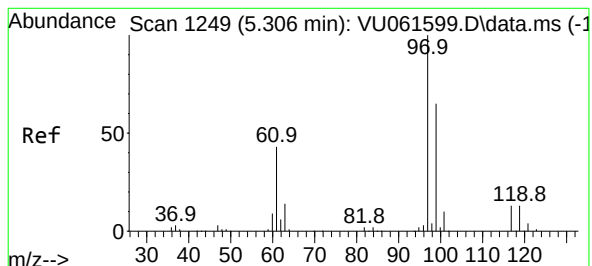
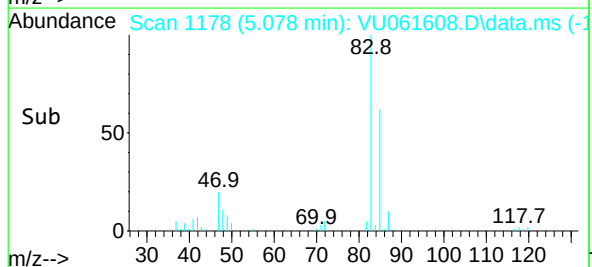
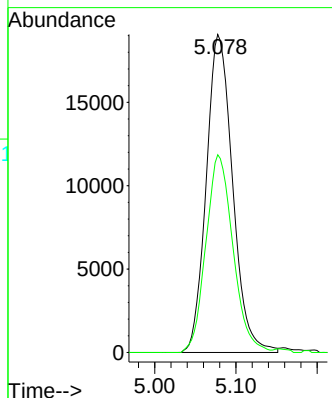
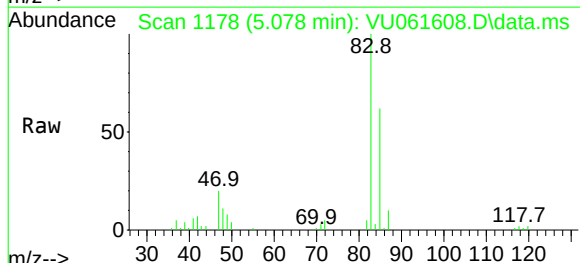
#27
Chloroform
Concen: 1.922 ug/l
RT: 5.078 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01

Tgt Ion: 83 Resp: 43046
Ion Ratio Lower Upper
83 100
85 62.2 0.0 130.6

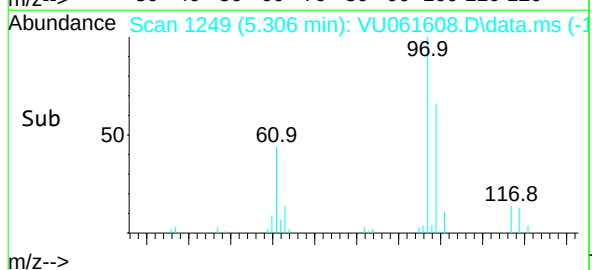
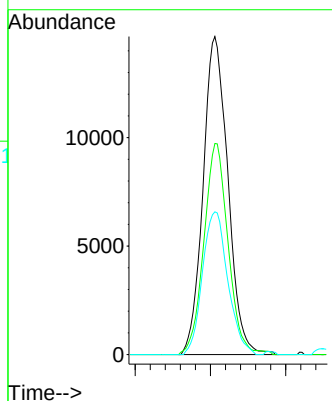
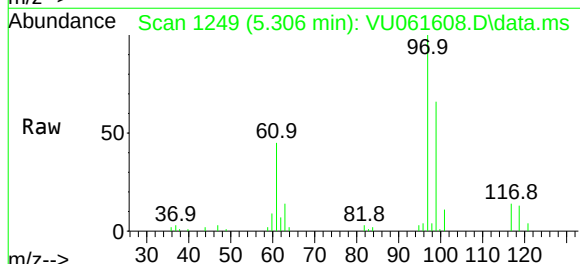
Manual Integrations
APPROVED

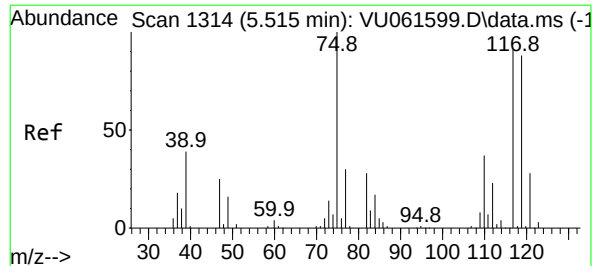
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#28
1,1,1-Trichloroethane
Concen: 1.815 ug/l
RT: 5.306 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Tgt Ion: 97 Resp: 33592
Ion Ratio Lower Upper
97 100
99 64.7 32.1 96.5
61 45.8 21.7 65.1





#29

1,1-Dichloropropene

Concen: 1.831 ug/l

RT: 5.518 min Scan# 1315

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 75 Resp: 30441

Ion Ratio Lower Upper

75 100

110 37.2 17.9 53.8

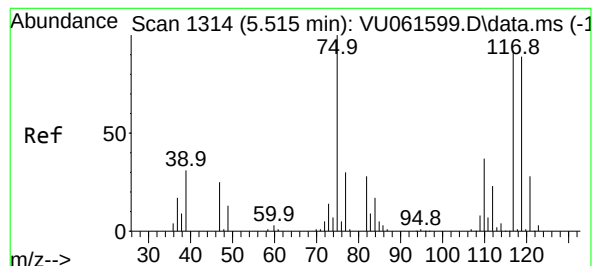
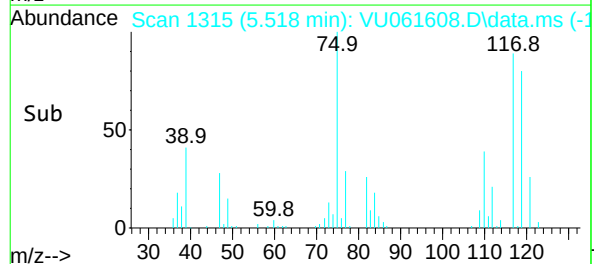
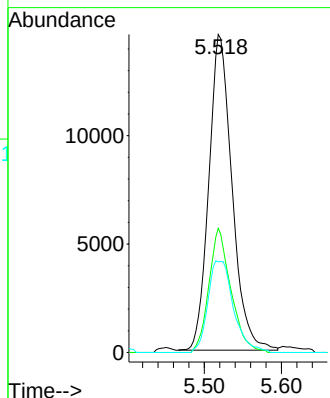
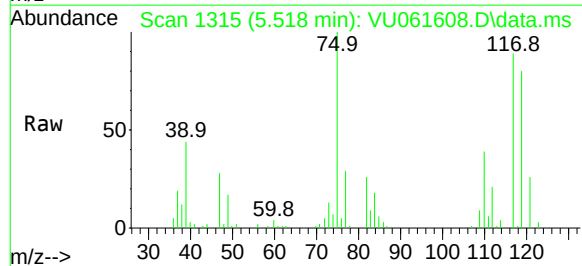
77 31.9 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#30

Carbon Tetrachloride

Concen: 1.840 ug/l

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

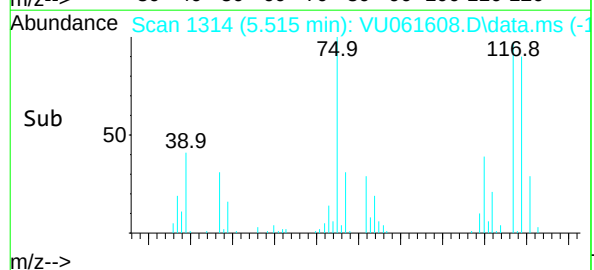
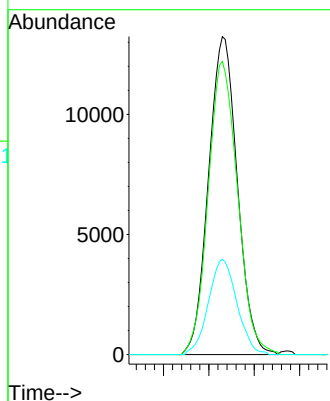
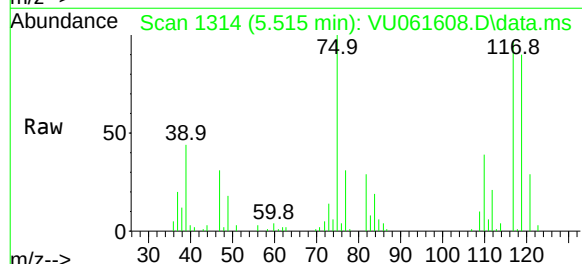
Tgt Ion:117 Resp: 29191

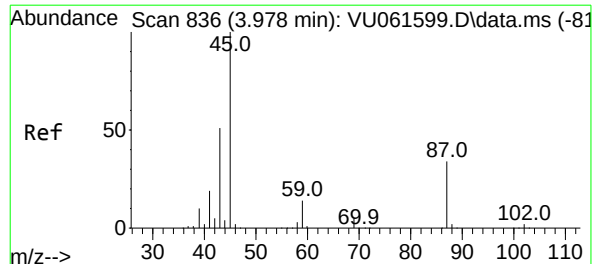
Ion Ratio Lower Upper

117 100

119 92.2 77.4 116.0

121 30.0 24.5 36.7





#31

Isopropyl Ether

Concen: 1.837 ug/l

RT: 3.981 min Scan# 836

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion: 45 Resp: 51634

Ion Ratio Lower Upper

45 100

43 53.5 25.8 77.3

Instrument :

MSVOA_U

ClientSampleId :

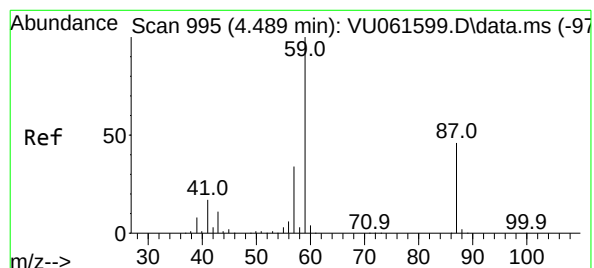
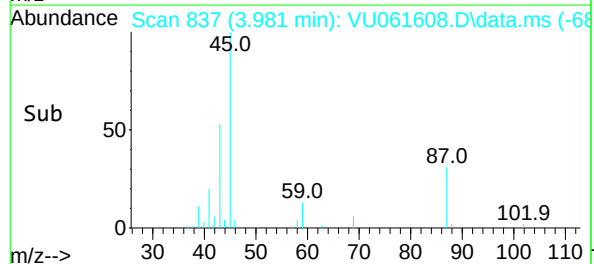
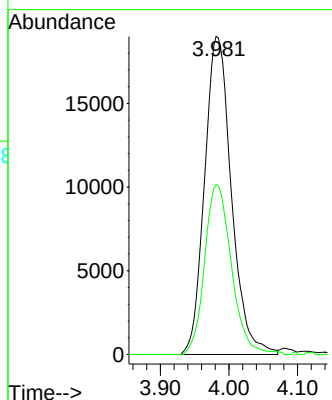
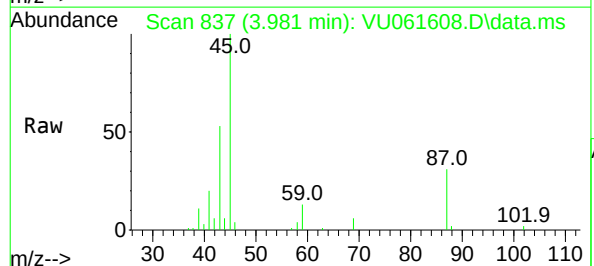
VU1112WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#32

Ethyl-t-butyl ether

Concen: 1.820 ug/l

RT: 4.489 min Scan# 995

Delta R.T. -0.000 min

Lab File: VU061608.D

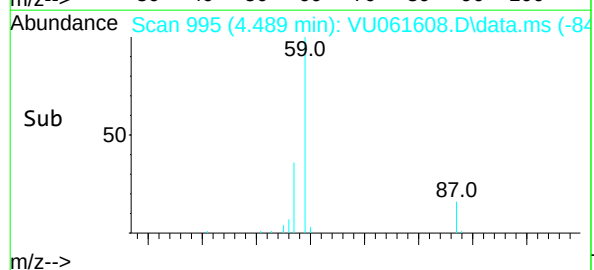
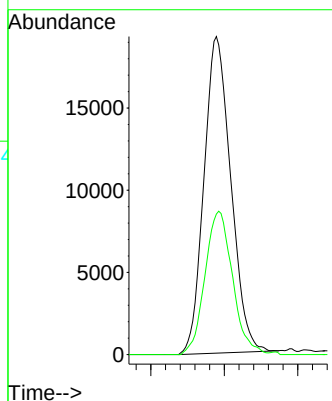
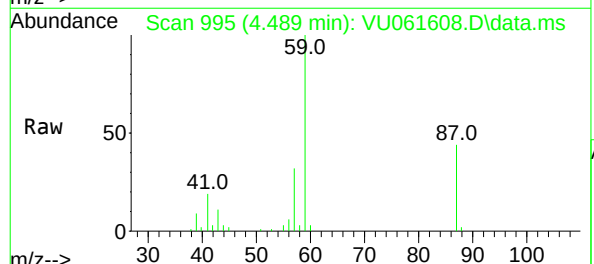
Acq: 12 Nov 2024 17:49

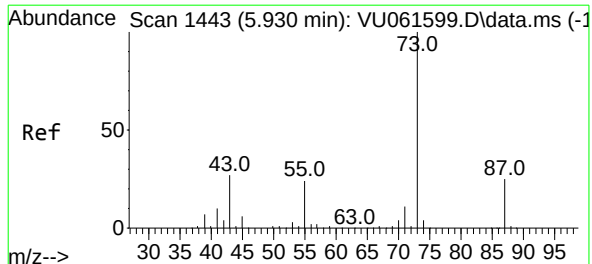
Tgt Ion: 59 Resp: 48901

Ion Ratio Lower Upper

59 100

87 45.7 35.5 53.3





#33

Tert-Amyl methyl ether

Concen: 1.873 ug/l

RT: 5.930 min Scan# 14

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

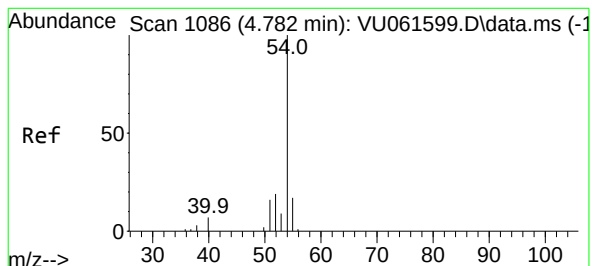
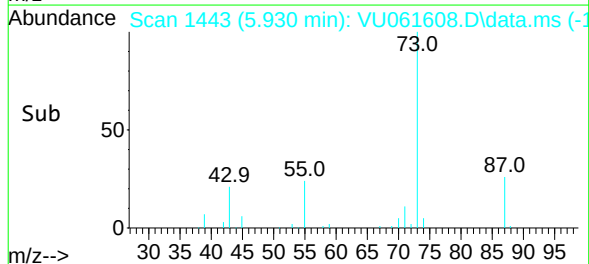
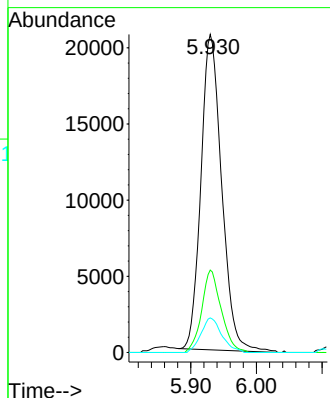
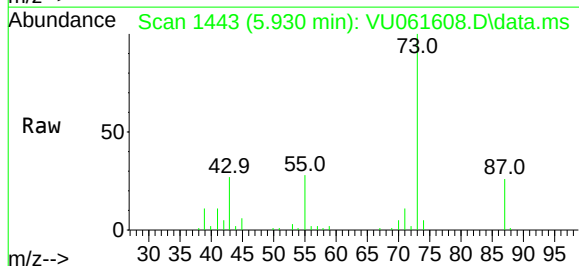
Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 73	Resp: 45491
Ion Ratio	Lower Upper
73 100	
87 24.5	19.8 29.6
71 11.0	9.0 13.4

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#34

Propionitrile

Concen: 8.925 ug/l m

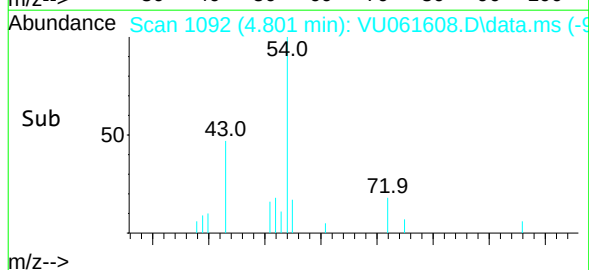
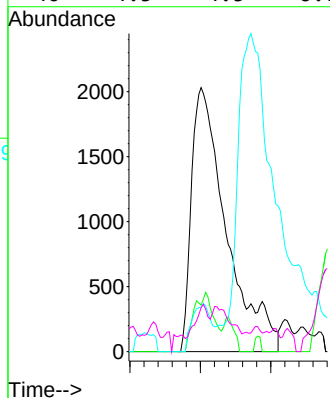
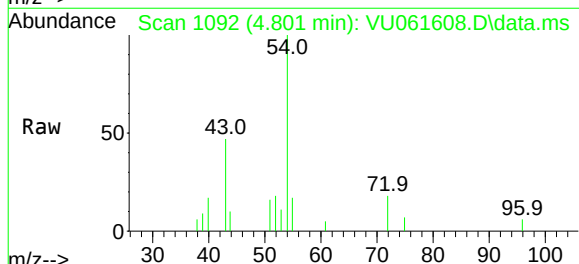
RT: 4.801 min Scan# 1092

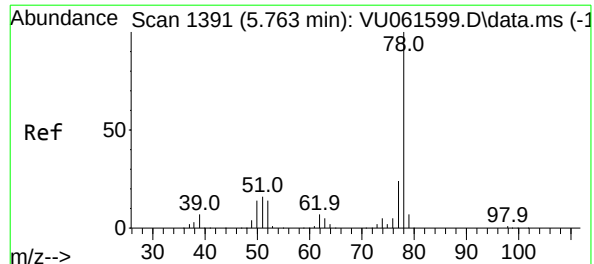
Delta R.T. 0.019 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion: 54	Resp: 6994
Ion Ratio	Lower Upper
54 100	
52 12.9	15.8 23.8#
55 9.8	10.7 16.1#
40 4.5	4.5 6.7





#35

Benzene

Concen: 1.891 ug/l

RT: 5.766 min Scan# 1391

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion: 78 Resp: 93703

Ion Ratio Lower Upper

78 100

77 24.1 19.6 29.4

Instrument :

MSVOA_U

ClientSampleId :

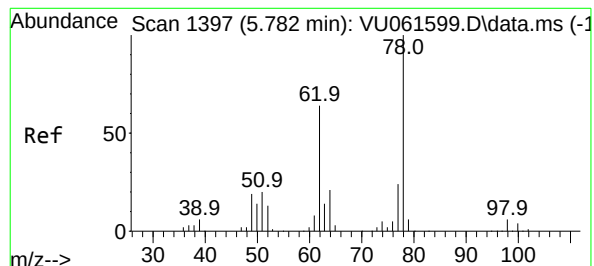
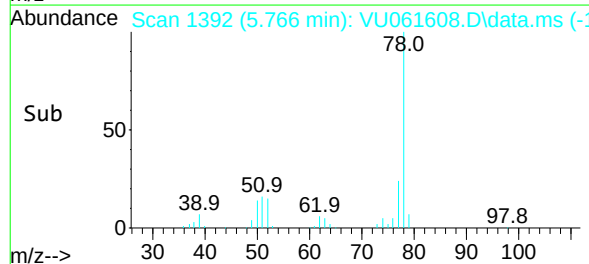
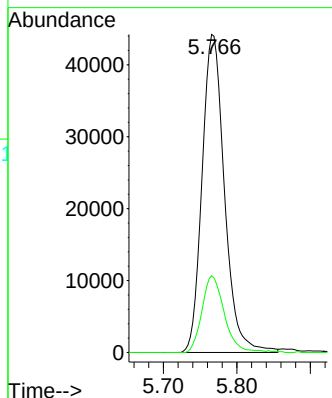
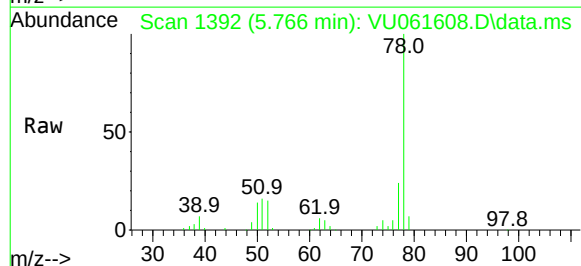
VU1112WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#36

1,2-Dichloroethane

Concen: 1.929 ug/l

RT: 5.788 min Scan# 1399

Delta R.T. 0.006 min

Lab File: VU061608.D

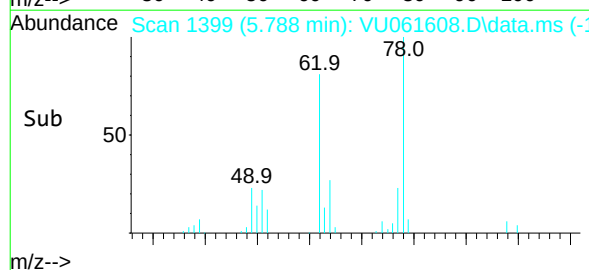
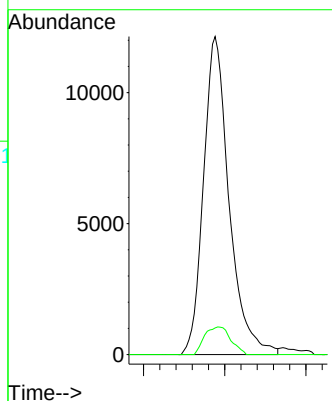
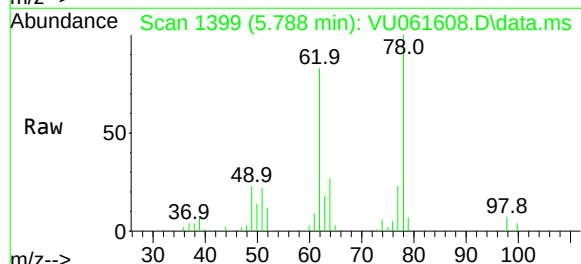
Acq: 12 Nov 2024 17:49

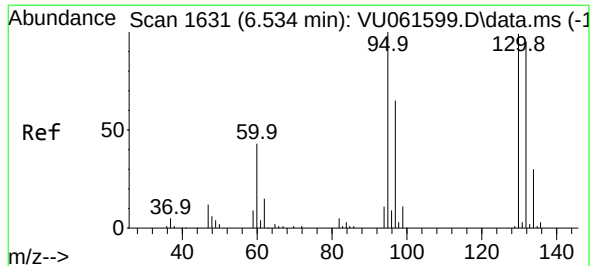
Tgt Ion: 62 Resp: 26564

Ion Ratio Lower Upper

62 100

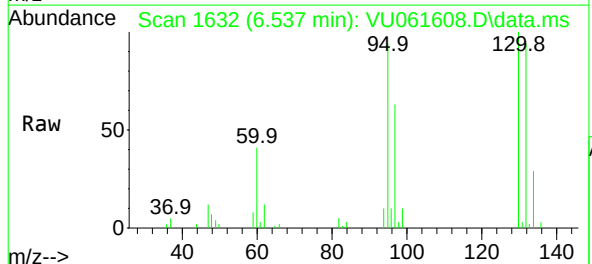
98 8.9 7.4 11.0





#37
Trichloroethene
Concen: 1.883 ug/l
RT: 6.537 min Scan# 1615
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

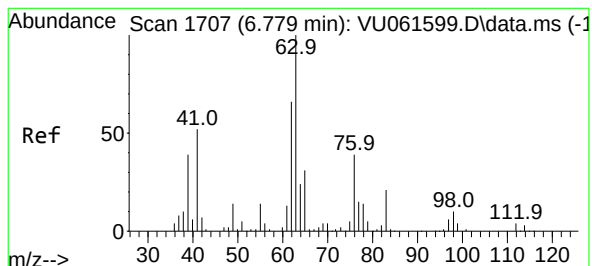
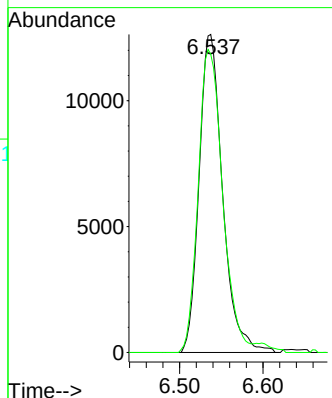
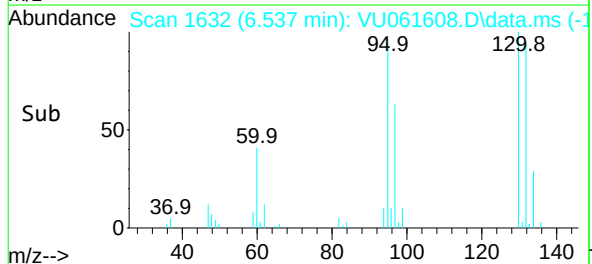
Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01



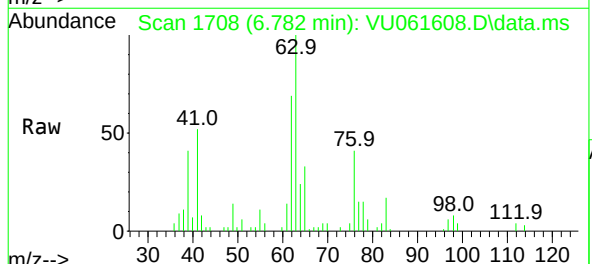
Tgt Ion: 130 Resp: 24715
Ion Ratio Lower Upper
130 100
95 93.7 80.6 120.8

Manual Integrations
APPROVED

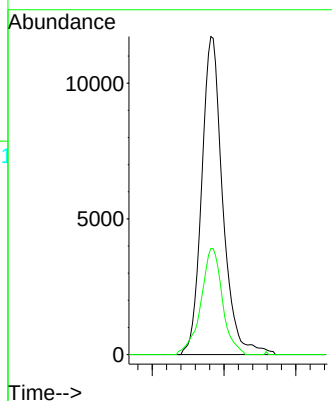
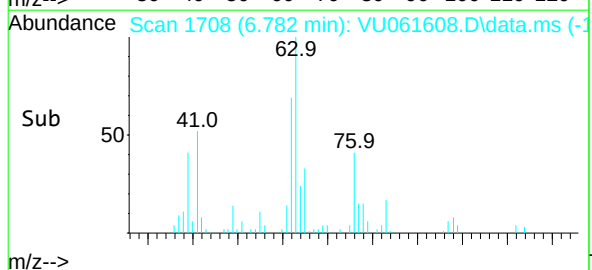
Reviewed By : Semsettin Yesilyurt 11/13/2024
Supervised By : Mahesh Dadoda 11/13/2024

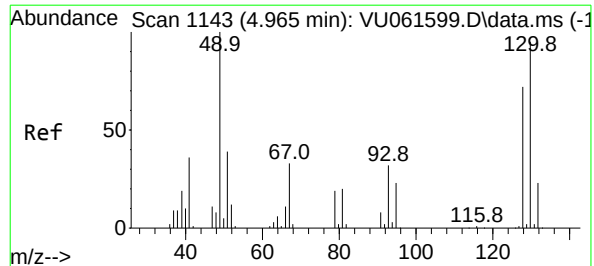


#38
1,2-Dichloropropane
Concen: 1.915 ug/l
RT: 6.782 min Scan# 1708
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49



Tgt Ion: 63 Resp: 23828
Ion Ratio Lower Upper
63 100
65 33.4 25.3 37.9





#39

Methacrylonitrile

Concen: 1.788 ug/l

RT: 4.981 min Scan# 1114

Delta R.T. 0.016 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 41 Resp: 4859

Ion Ratio Lower Upper

41 100

67 97.3 77.6 116.4

39 60.7 43.9 65.9

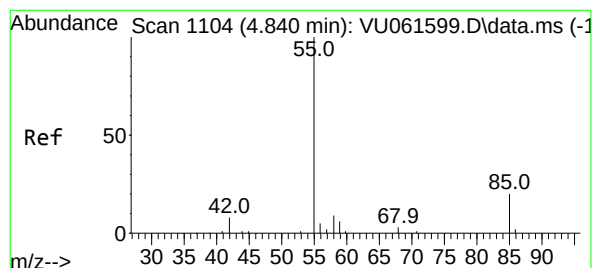
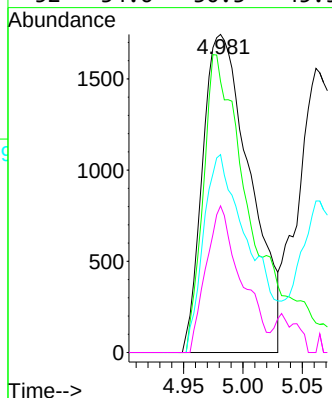
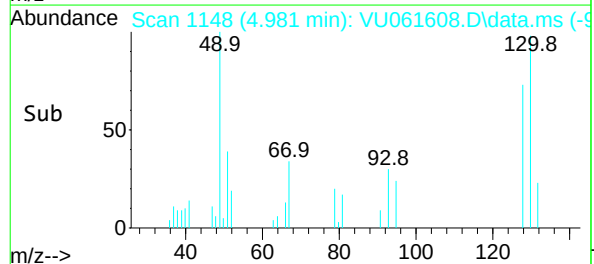
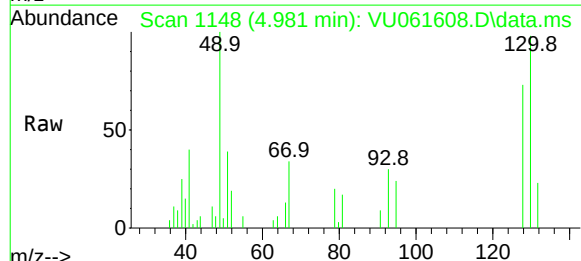
52 34.6 30.3 45.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#40

Methyl acrylate

Concen: 2.038 ug/l m

RT: 4.872 min Scan# 1114

Delta R.T. 0.032 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion: 55 Resp: 10214

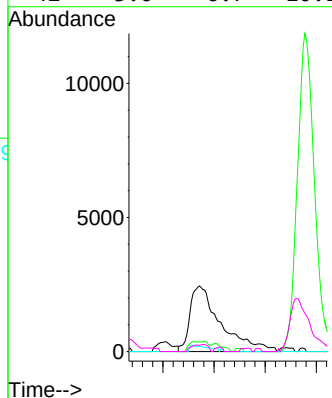
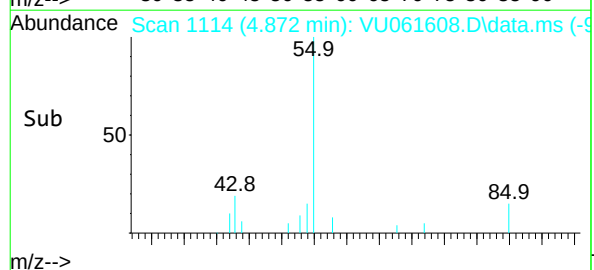
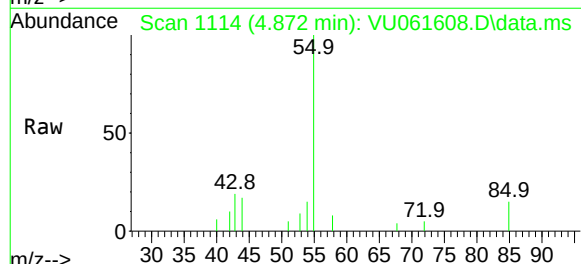
Ion Ratio Lower Upper

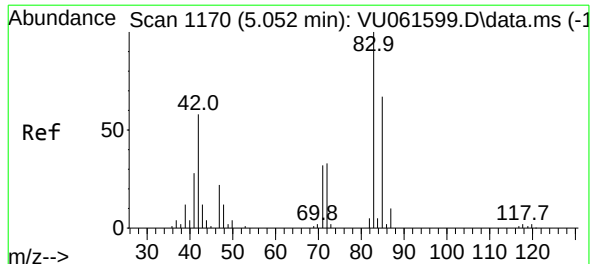
55 100

85 0.0 16.5 24.7#

58 1.9 7.6 11.4#

42 3.0 6.7 10.1#





#41

Tetrahydrofuran

Concen: 3.524 ug/l

RT: 5.061 min Scan# 1170

Delta R.T. 0.009 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

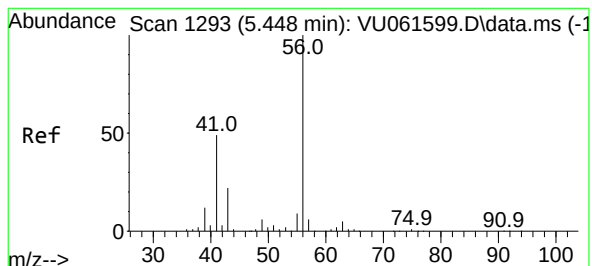
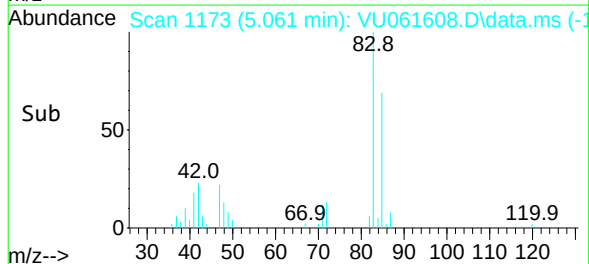
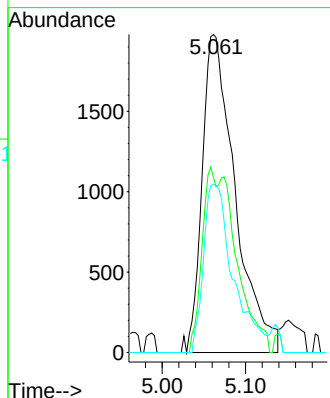
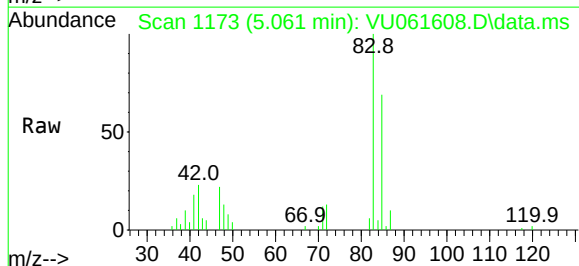
Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion:	42	Resp:	5433
Ion	Ratio	Lower	Upper
42	100		
72	25.1	49.1	73.7
71	47.6	40.2	60.4

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#42

1-Chlorobutane

Concen: 1.838 ug/l

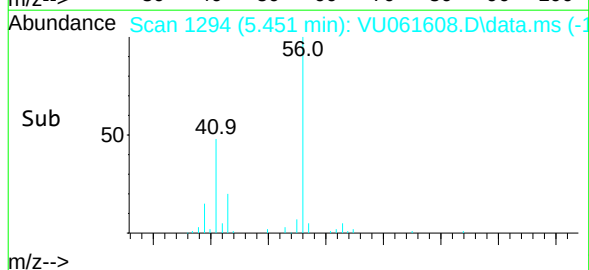
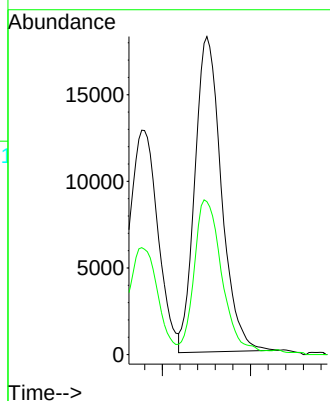
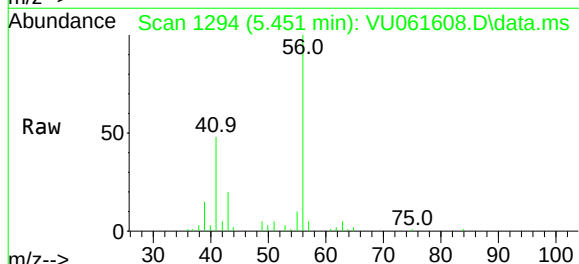
RT: 5.451 min Scan# 1294

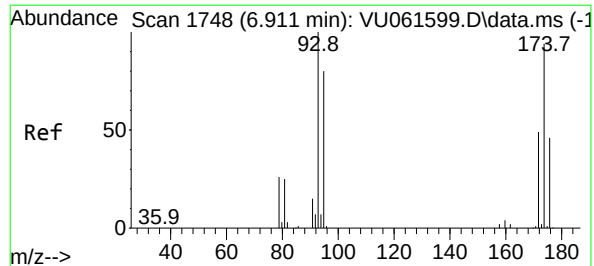
Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion:	56	Resp:	38129
Ion	Ratio	Lower	Upper
56	100		
41	49.4	23.4	70.2





#43

Dibromomethane

Concen: 1.854 ug/l

RT: 6.913 min Scan# 1748

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 93 Resp: 12216

Ion Ratio Lower Upper

93 100

95 83.6 65.2 97.8

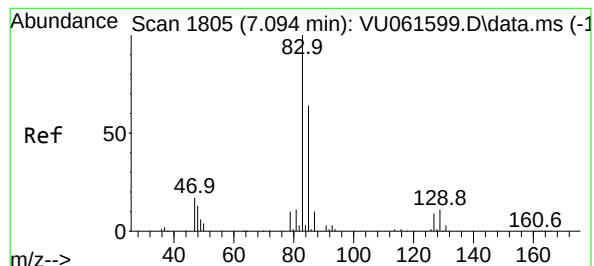
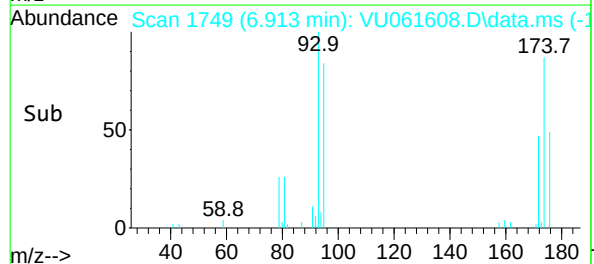
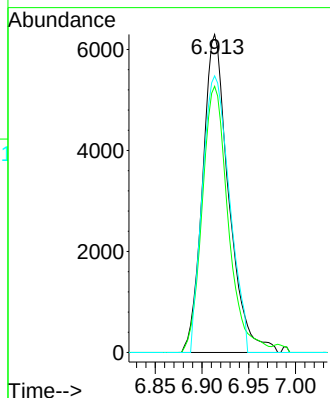
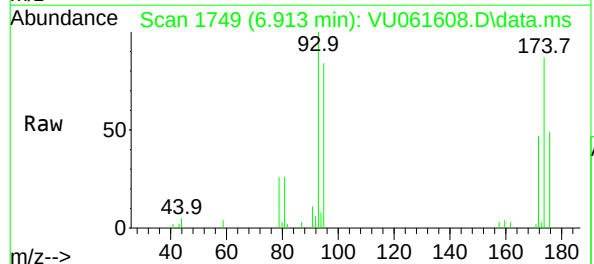
174 90.0 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#44

Bromodichloromethane

Concen: 1.866 ug/l

RT: 7.097 min Scan# 1806

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

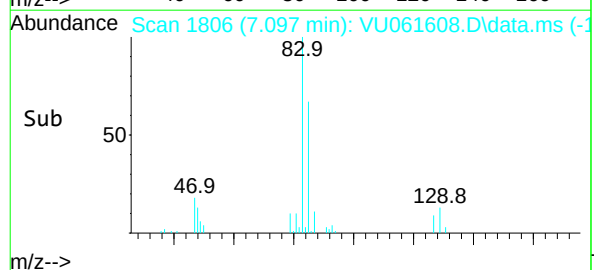
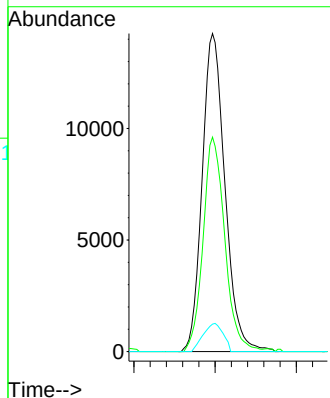
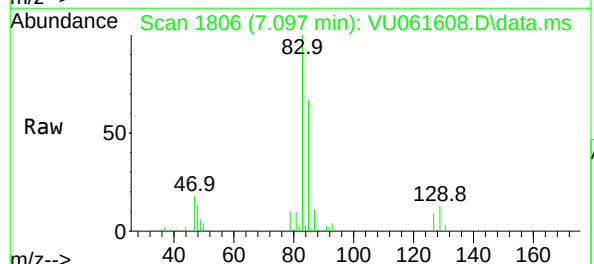
Tgt Ion: 83 Resp: 27767

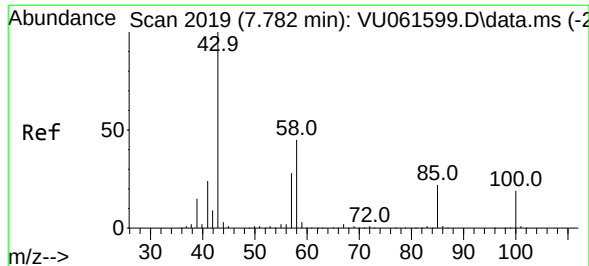
Ion Ratio Lower Upper

83 100

85 67.4 51.4 77.0

127 8.6 7.2 10.8





#45

4-Methyl-2-Pentanone

Concen: 8.987 ug/l

RT: 7.785 min Scan# 20

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

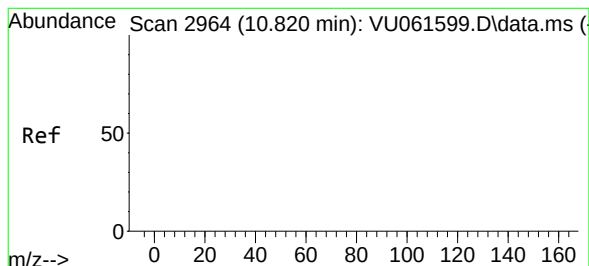
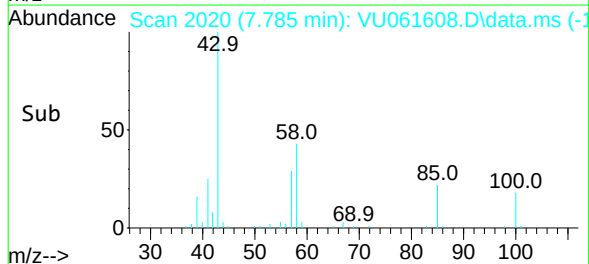
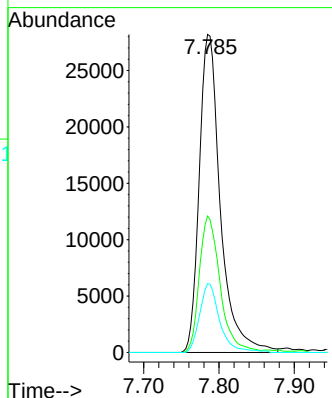
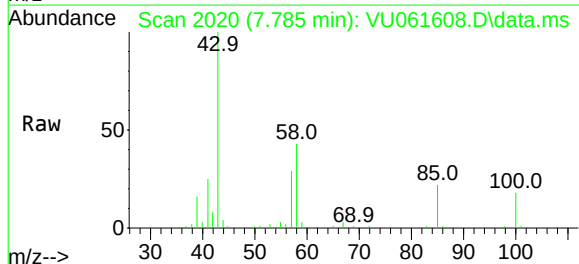
ClientSampleId :

VU1112WBSD01

Tgt Ion	43	Resp	55091
Ion	Ratio	Lower	Upper
43	100		
58	42.2	22.3	66.8
85	20.6	17.2	25.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#46

t-1,4-Dichloro-2-butene

Concen: 3.876 ug/l m

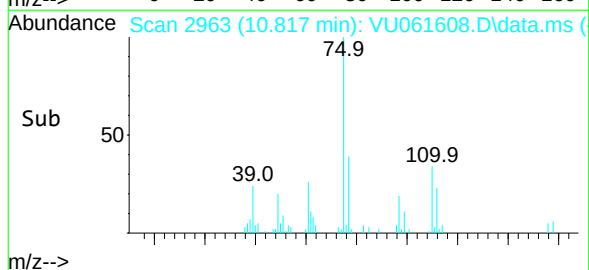
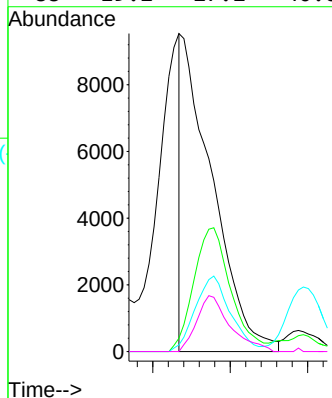
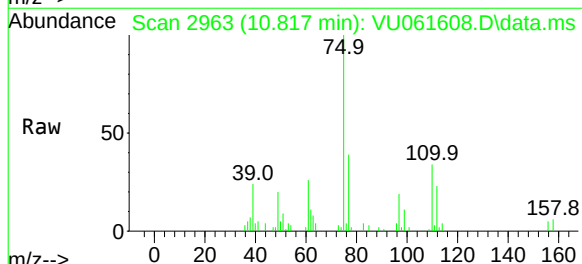
RT: 10.817 min Scan# 2963

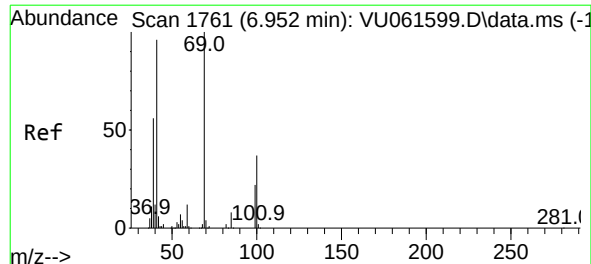
Delta R.T. -0.004 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion	75	Resp	13003
Ion	Ratio	Lower	Upper
75	100		
53	47.4	50.7	76.1#
89	27.4	35.2	52.8#
88	19.2	27.2	40.8#





#47

Methyl methacrylate

Concen: 3.421 ug/l

RT: 6.958 min Scan# 1761

Delta R.T. 0.006 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 69 Resp: 17894

Ion Ratio Lower Upper

69 100

41 104.7 0.0 193.6

39 63.9 46.6 70.0

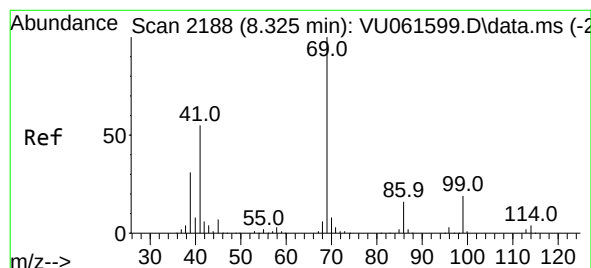
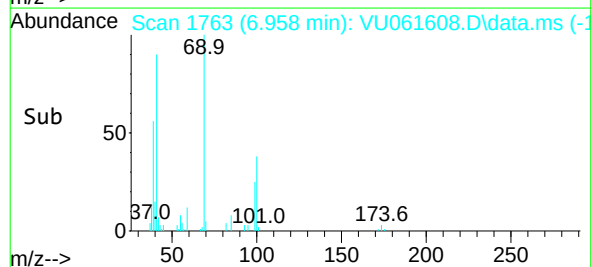
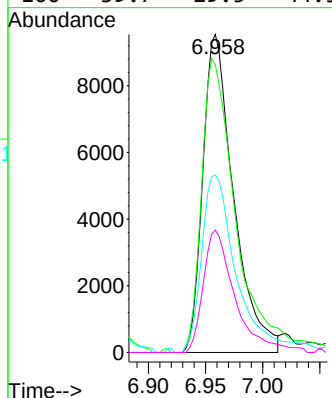
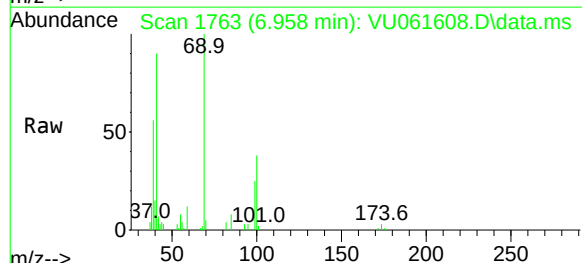
100 39.7 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#48

Ethyl methacrylate

Concen: 1.800 ug/l

RT: 8.328 min Scan# 2189

Delta R.T. 0.003 min

Lab File: VU061608.D

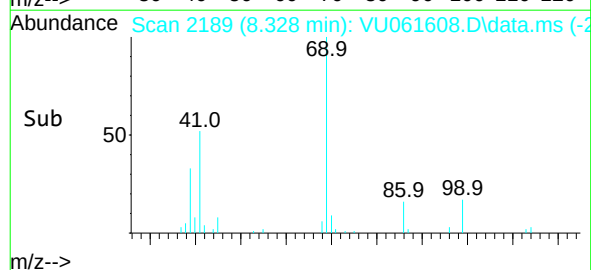
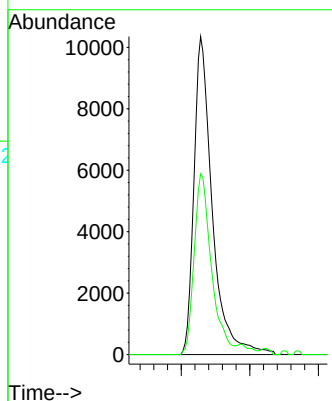
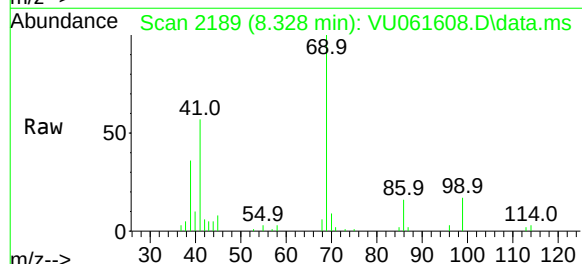
Acq: 12 Nov 2024 17:49

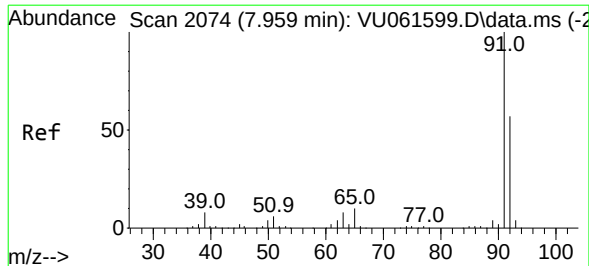
Tgt Ion: 69 Resp: 19141

Ion Ratio Lower Upper

69 100

41 53.7 27.3 81.9





#49

Toluene

Concen: 1.831 ug/l

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 92 Resp: 55410

Ion Ratio Lower Upper

92 100

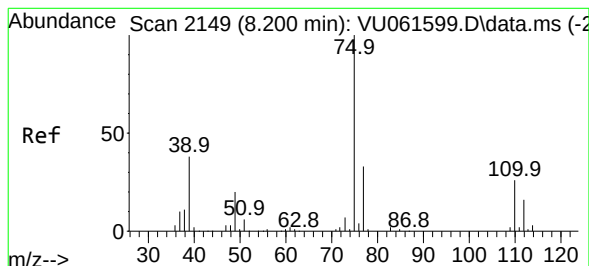
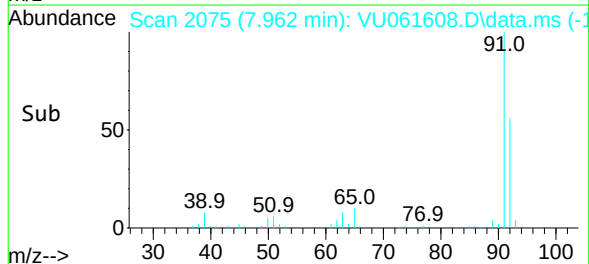
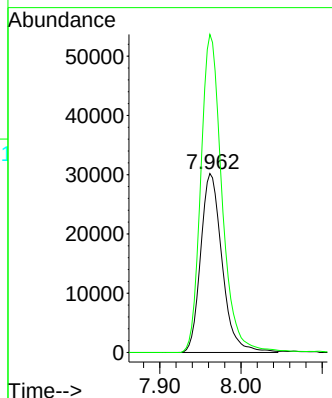
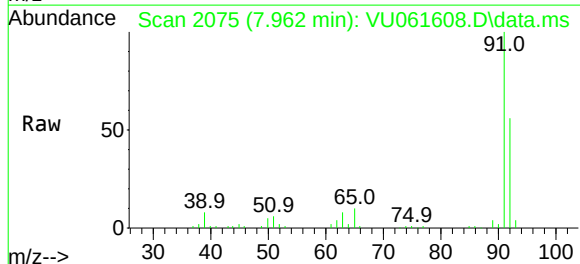
91 176.5 139.6 209.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#50

t-1,3-Dichloropropene

Concen: 1.703 ug/l

RT: 8.206 min Scan# 2151

Delta R.T. 0.006 min

Lab File: VU061608.D

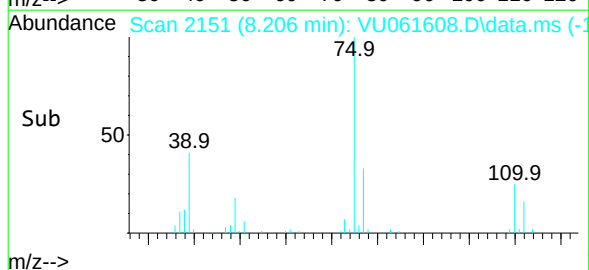
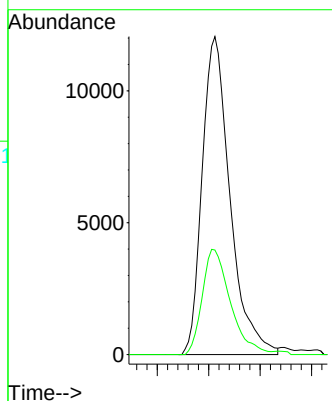
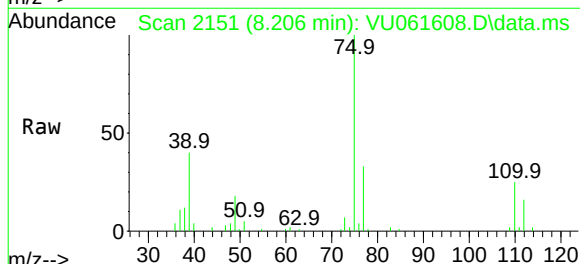
Acq: 12 Nov 2024 17:49

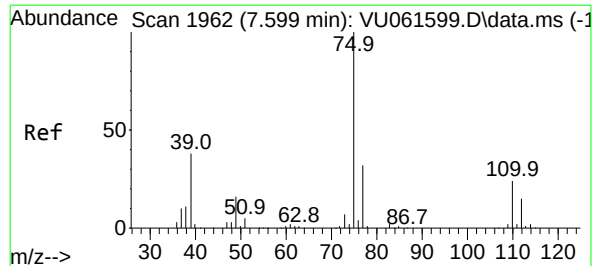
Tgt Ion: 75 Resp: 22674

Ion Ratio Lower Upper

75 100

77 32.9 26.0 39.0





#51

cis-1,3-Dichloropropene

Concen: 1.707 ug/l

RT: 7.602 min Scan# 19

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 75 Resp: 29163

Ion Ratio Lower Upper

75 100

77 36.6 25.5 38.3

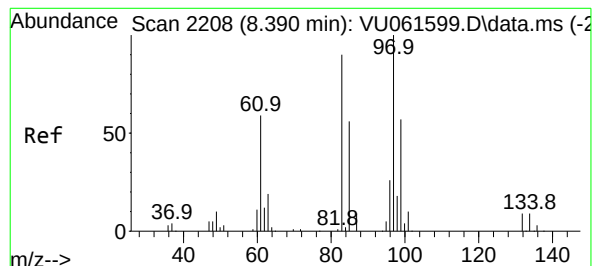
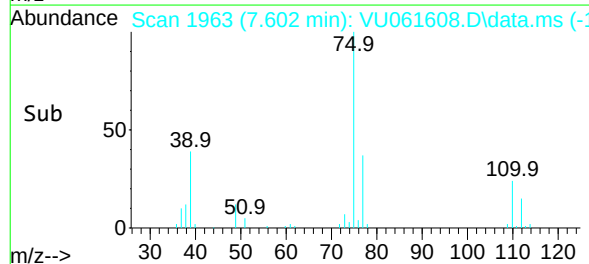
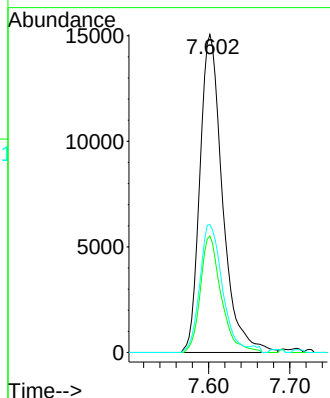
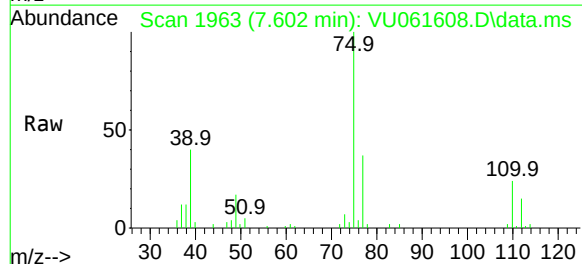
39 40.3 30.6 46.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#52

1,1,2-Trichloroethane

Concen: 1.885 ug/l

RT: 8.393 min Scan# 2209

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion: 97 Resp: 17024

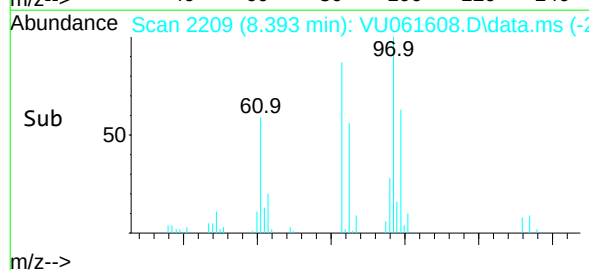
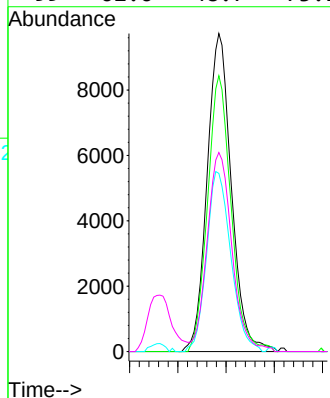
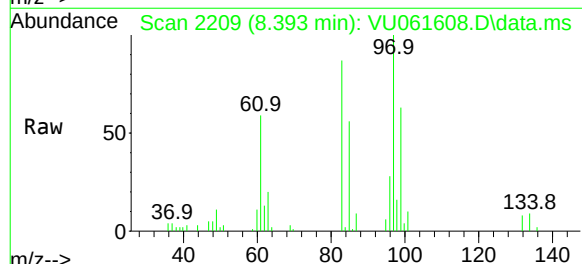
Ion Ratio Lower Upper

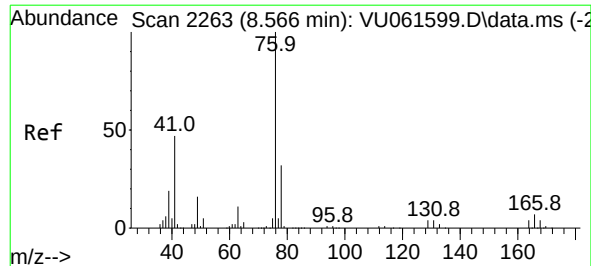
97 100

83 86.7 71.7 107.5

85 56.0 45.2 67.8

99 62.6 48.7 73.1





#53

1,3-Dichloropropane

Concen: 1.893 ug/l

RT: 8.569 min Scan# 22

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 76 Resp: 29181

Ion Ratio Lower Upper

76 100

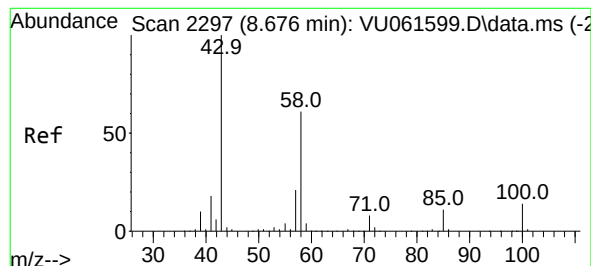
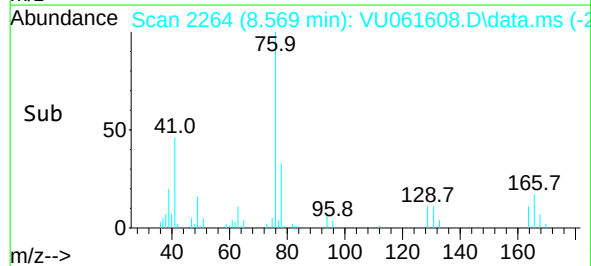
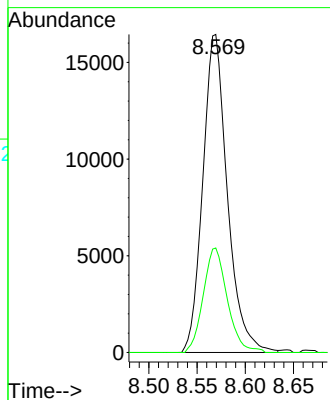
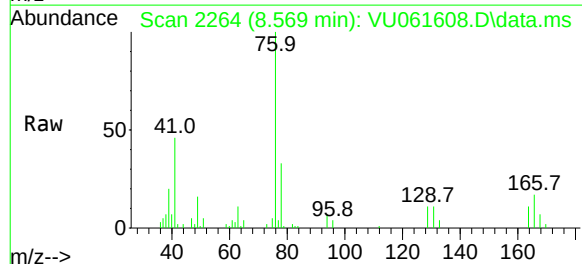
78 32.1 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#54

2-Hexanone

Concen: 7.072 ug/l

RT: 8.685 min Scan# 2300

Delta R.T. 0.009 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

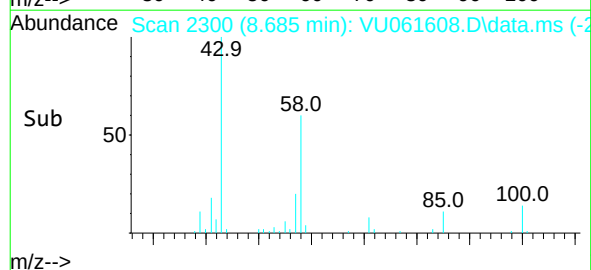
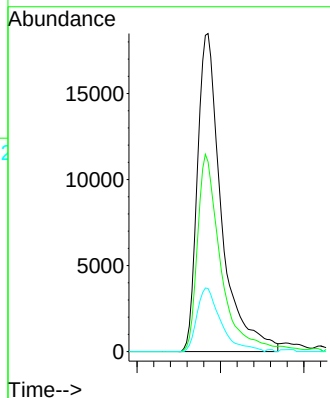
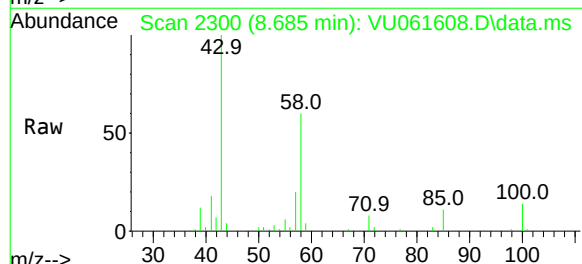
Tgt Ion: 43 Resp: 36935

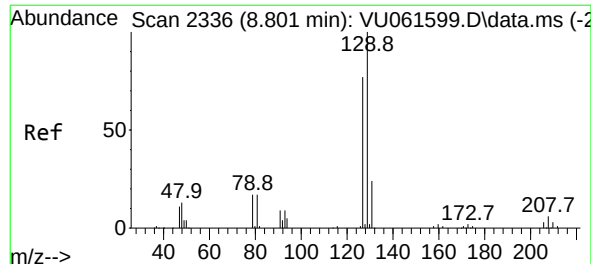
Ion Ratio Lower Upper

43 100

58 60.7 42.3 82.3

57 19.9 0.9 40.9





#55

Dibromochloromethane

Concen: 1.799 ug/l

RT: 8.801 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion:129 Resp: 17594

Ion Ratio Lower Upper

129 100

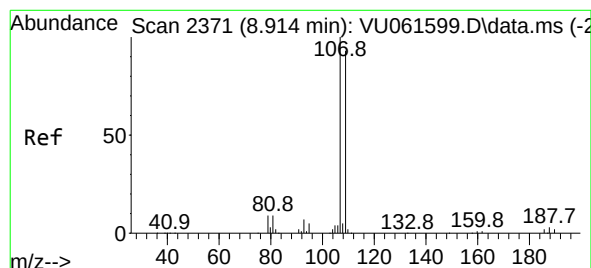
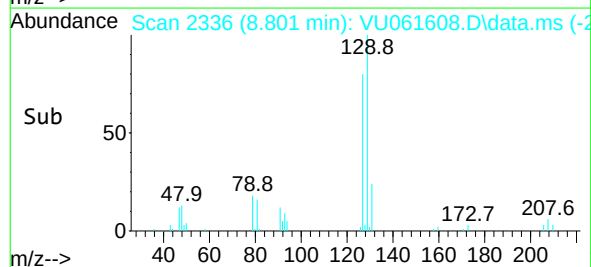
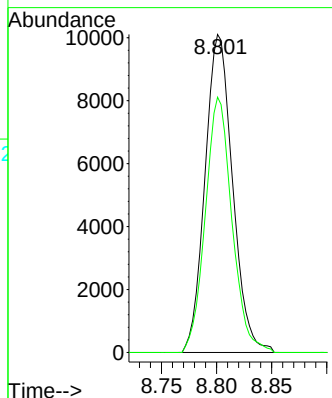
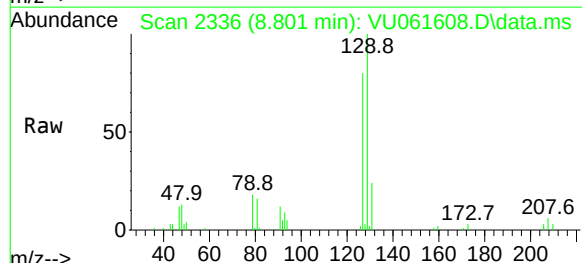
127 77.7 61.8 92.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#56

1,2-Dibromoethane

Concen: 1.854 ug/l

RT: 8.917 min Scan# 2372

Delta R.T. 0.003 min

Lab File: VU061608.D

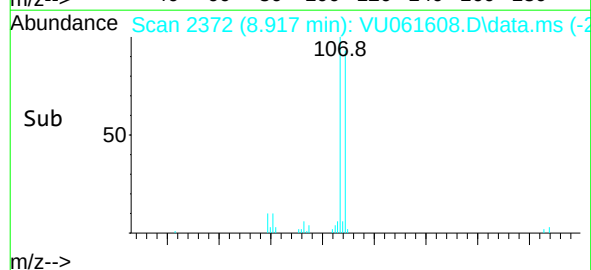
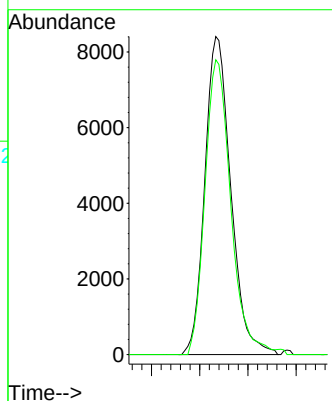
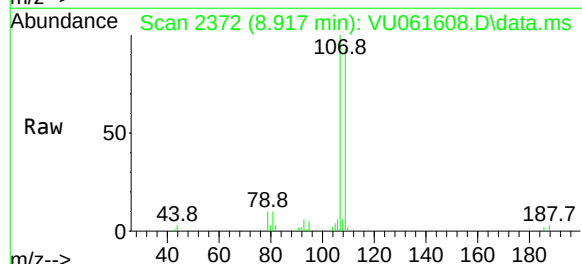
Acq: 12 Nov 2024 17:49

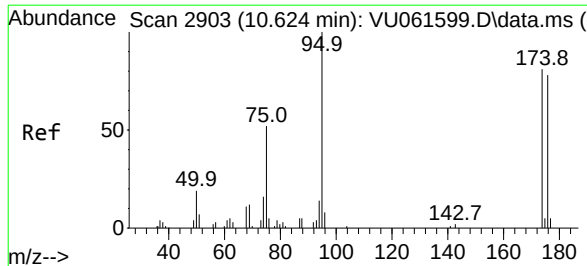
Tgt Ion:107 Resp: 15741

Ion Ratio Lower Upper

107 100

109 92.0 0.0 188.8





#57

4-Bromofluorobenzene

Concen: 0.977 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. 0.003 min

Lab File: VU061608.D

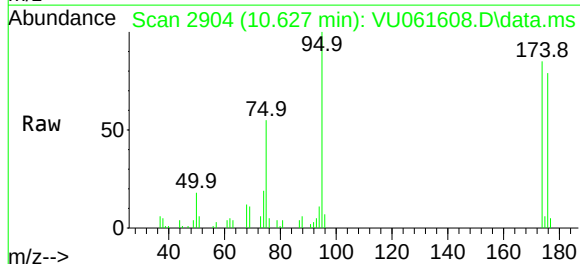
Acq: 12 Nov 2024 17:49

Instrument :

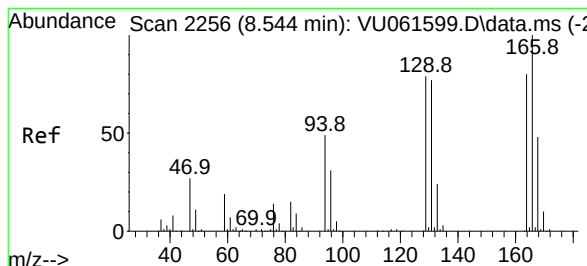
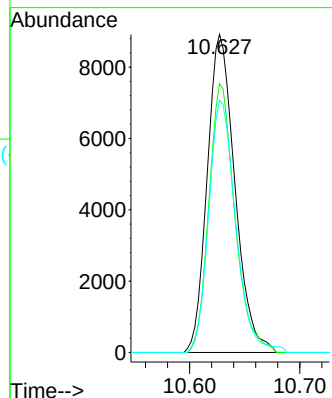
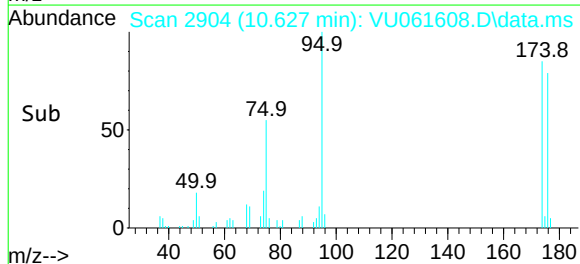
MSVOA_U

ClientSampleId :

VU1112WBSD01



Tgt Ion:	95	Resp:	15561
Ion Ratio	Lower	Upper	
95	100		
174	79.1	67.5	101.3
176	77.3	62.7	94.1

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#58

Tetrachloroethene

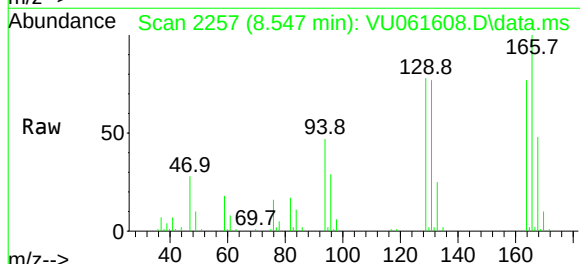
Concen: 1.836 ug/l

RT: 8.547 min Scan# 2257

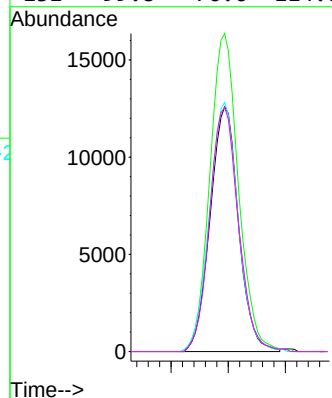
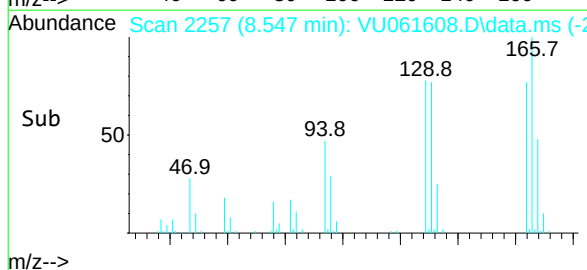
Delta R.T. 0.003 min

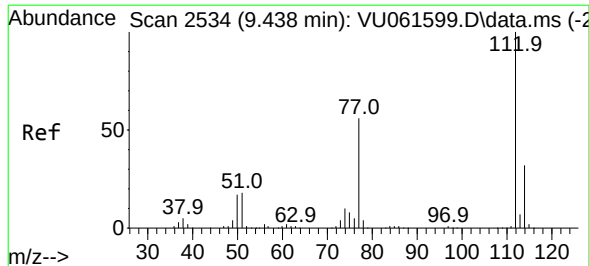
Lab File: VU061608.D

Acq: 12 Nov 2024 17:49



Tgt Ion:	164	Resp:	21673
Ion Ratio	Lower	Upper	
164	100		
166	129.9	99.9	149.9
129	101.9	78.6	118.0
131	99.8	76.6	114.8





#59

Chlorobenzene

Concen: 1.866 ug/l

RT: 9.441 min Scan# 2534

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion:112 Resp: 62389

Ion Ratio Lower Upper

112 100

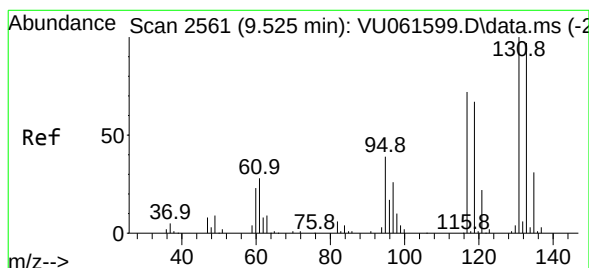
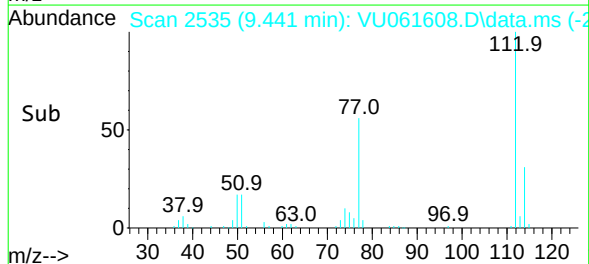
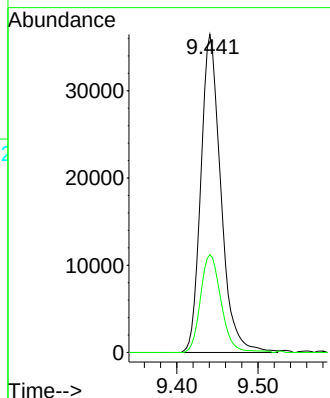
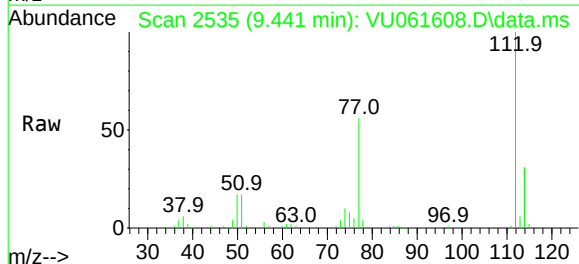
114 30.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#60

1,1,1,2-Tetrachloroethane

Concen: 1.829 ug/l

RT: 9.528 min Scan# 2562

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

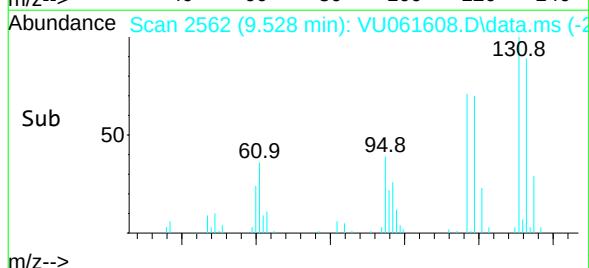
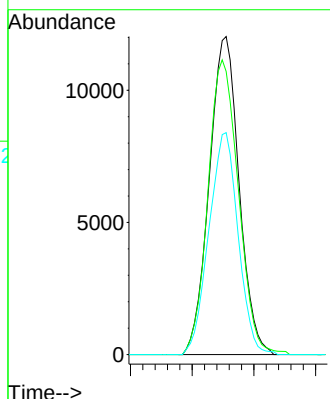
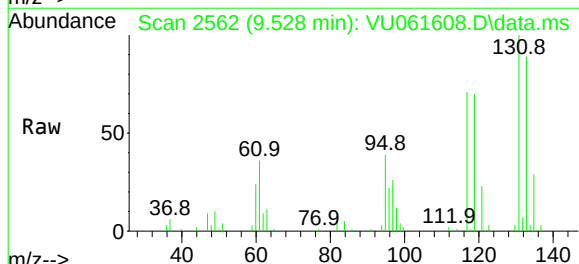
Tgt Ion:131 Resp: 20177

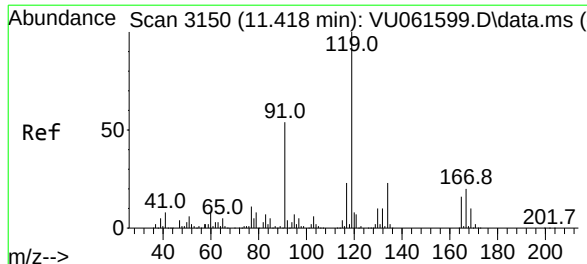
Ion Ratio Lower Upper

131 100

133 94.8 76.4 114.6

119 68.4 53.5 80.3





#61

Pentachloroethane

Concen: 1.785 ug/l

RT: 11.418 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion:117 Resp: 14816

Ion Ratio Lower Upper

117 100

167 75.6 65.4 98.0

Instrument :

MSVOA_U

ClientSampleId :

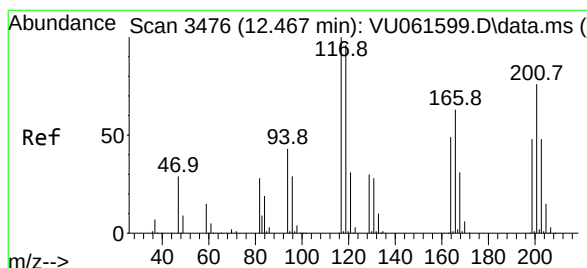
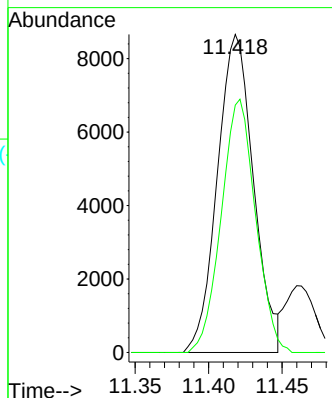
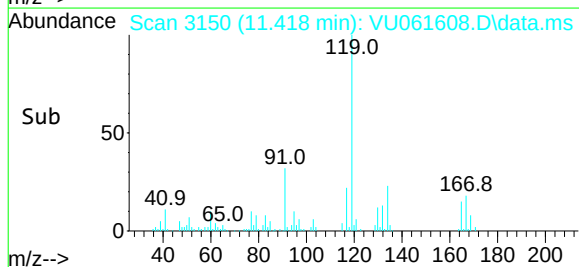
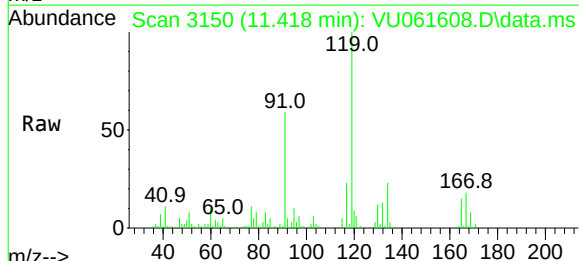
VU1112WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#62

Hexachloroethane

Concen: 1.769 ug/l

RT: 12.466 min Scan# 3476

Delta R.T. -0.000 min

Lab File: VU061608.D

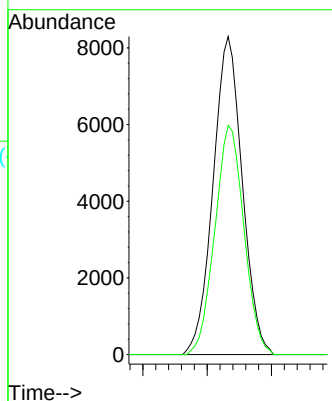
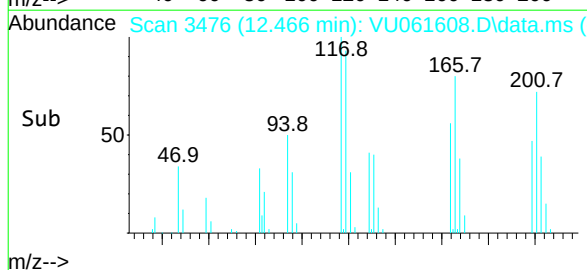
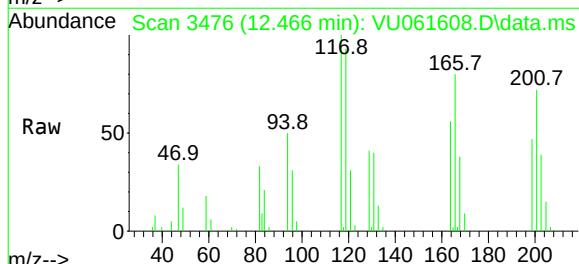
Acq: 12 Nov 2024 17:49

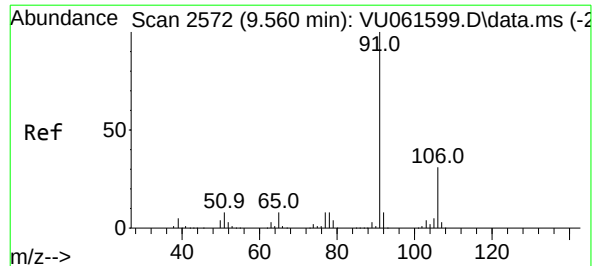
Tgt Ion:117 Resp: 13081

Ion Ratio Lower Upper

117 100

201 71.7 61.0 91.6





#63

Ethyl Benzene

Concen: 1.779 ug/l

RT: 9.563 min Scan# 2572

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 91 Resp: 100140

Ion Ratio Lower Upper

91 100

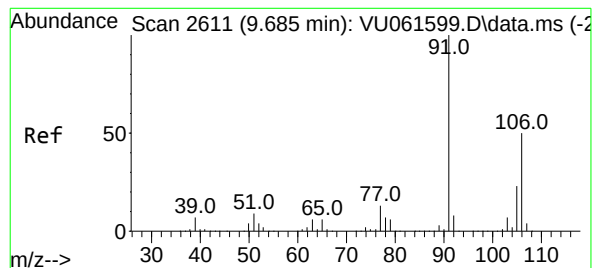
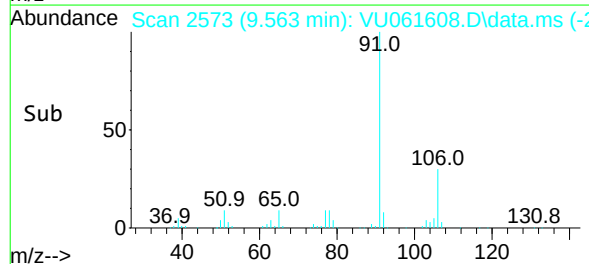
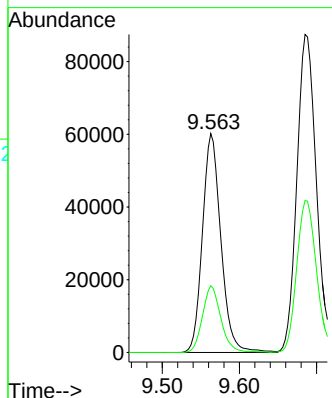
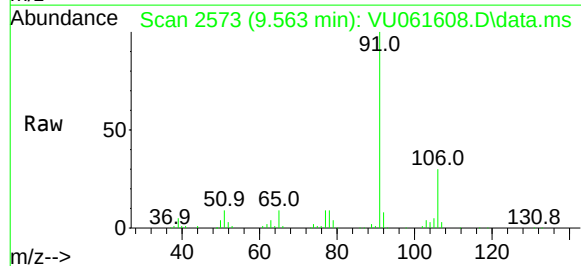
106 30.5 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#64

m/p-Xylenes

Concen: 3.505 ug/l

RT: 9.685 min Scan# 2611

Delta R.T. -0.000 min

Lab File: VU061608.D

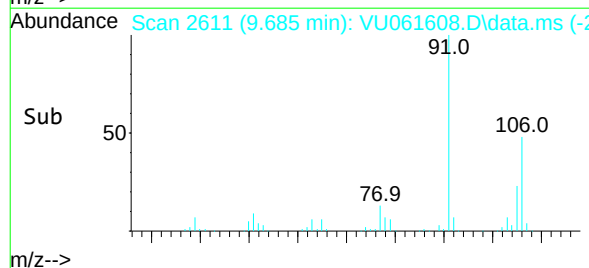
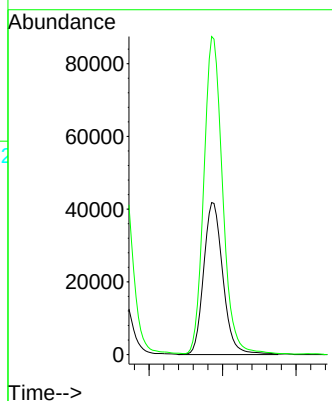
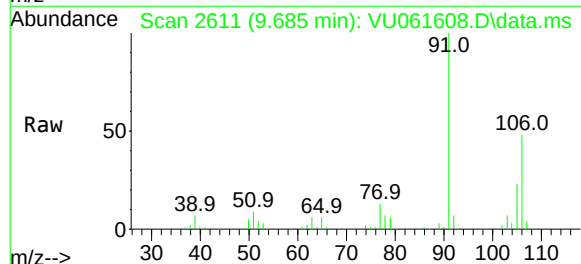
Acq: 12 Nov 2024 17:49

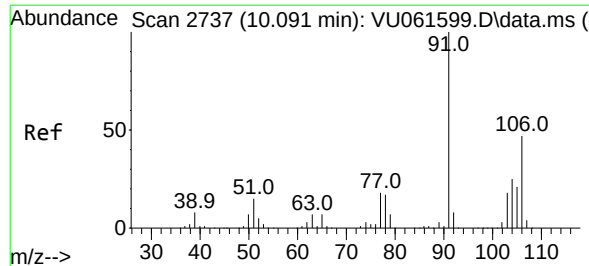
Tgt Ion:106 Resp: 75974

Ion Ratio Lower Upper

106 100

91 204.5 161.3 241.9





#65

o-Xylene

Concen: 1.807 ug/l

RT: 10.093 min Scan# 2737

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion:106 Resp: 38191

Ion Ratio Lower Upper

106 100

91 210.0 106.7 320.1

Instrument :

MSVOA_U

ClientSampleId :

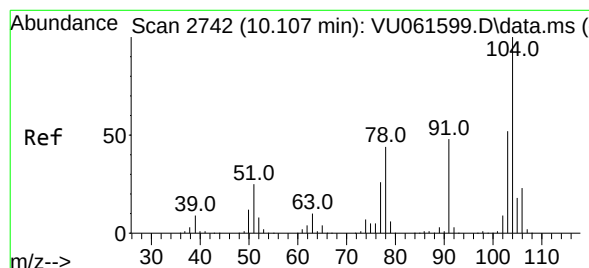
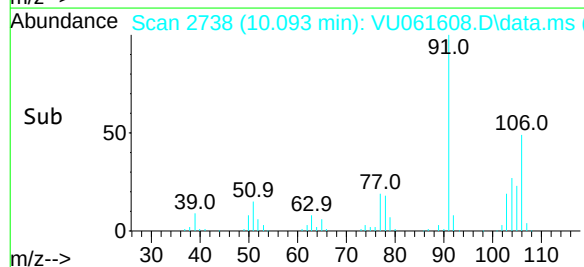
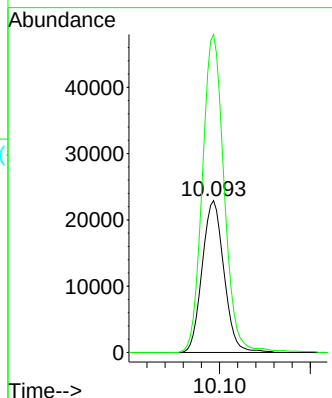
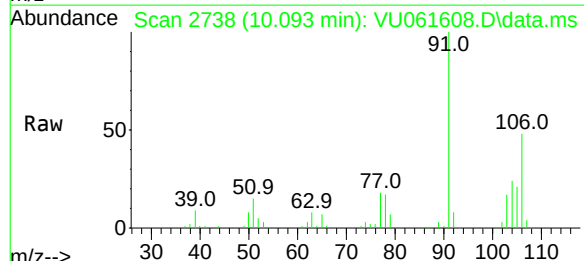
VU1112WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#66

Styrene

Concen: 1.772 ug/l

RT: 10.110 min Scan# 2743

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

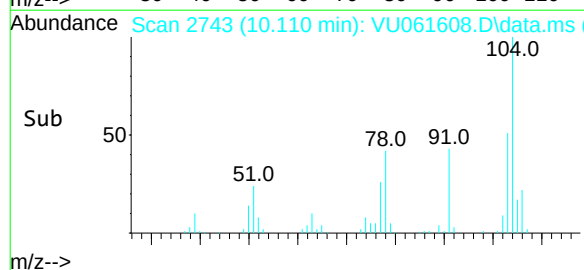
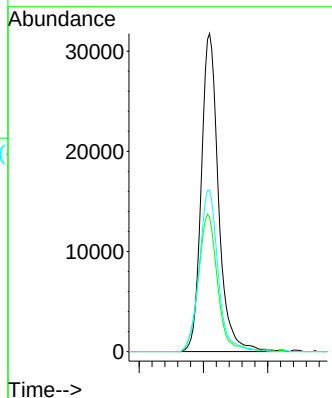
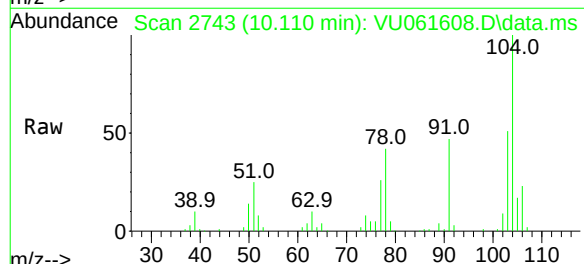
Tgt Ion:104 Resp: 59106

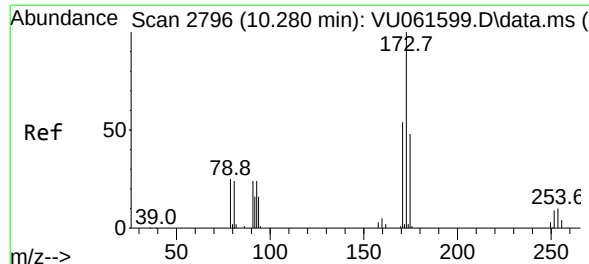
Ion Ratio Lower Upper

104 100

78 48.1 39.2 58.8

103 55.3 44.9 67.3





#67

Bromoform

Concen: 1.787 ug/l

RT: 10.283 min Scan# 2796

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

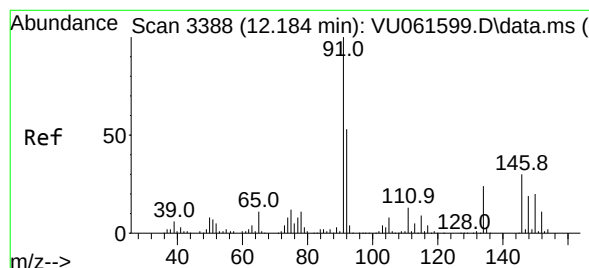
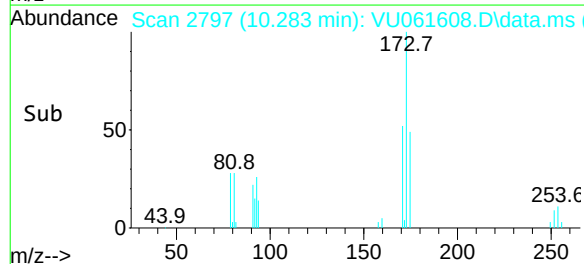
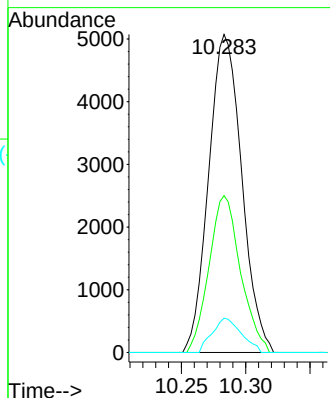
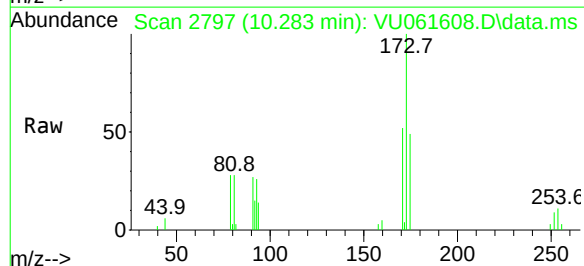
ClientSampleId :

VU1112WBSD01

Tgt	Ion:173	Resp:	9064
Ion	Ratio	Lower	Upper
173	100		
175	47.0	38.4	57.6
254	9.5	7.7	11.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#68

1,2-Dichlorobenzene-d4

Concen: 0.981 ug/l

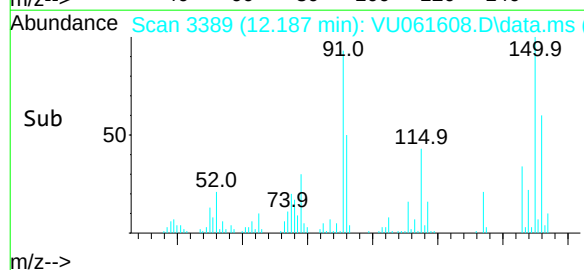
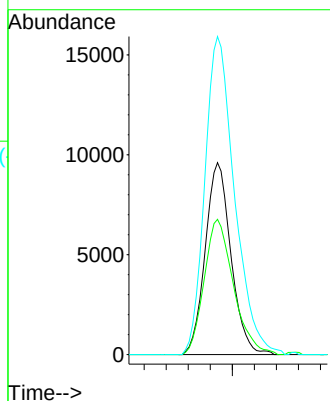
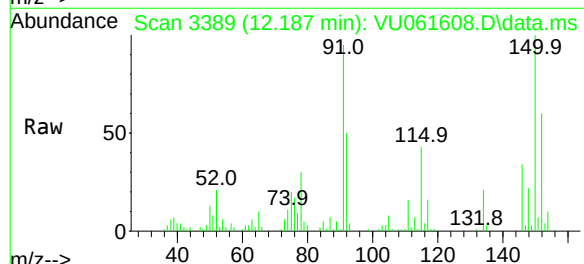
RT: 12.187 min Scan# 3389

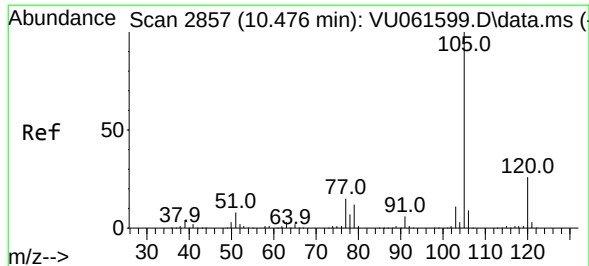
Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt	Ion:152	Resp:	15575
Ion	Ratio	Lower	Upper
152	100		
115	80.2	0.0	259.0
150	191.0	0.0	650.2





#69

Isopropylbenzene

Concen: 1.762 ug/l

RT: 10.476 min Scan# 2857

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion: 105 Resp: 87120

Ion Ratio Lower Upper

105 100

120 26.3 13.2 39.6

Instrument :

MSVOA_U

ClientSampleId :

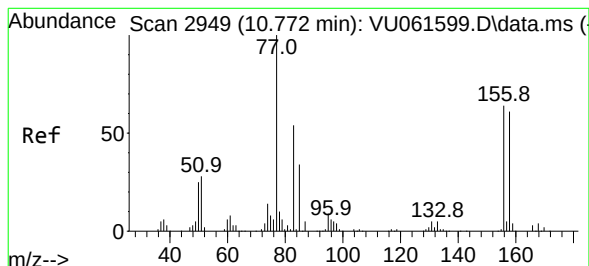
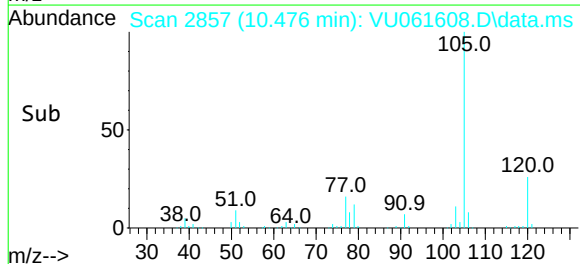
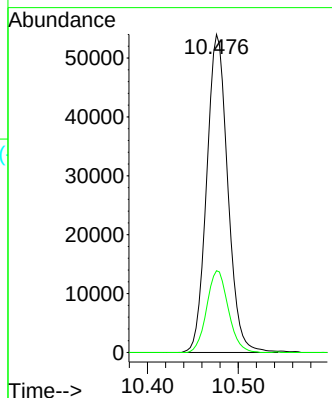
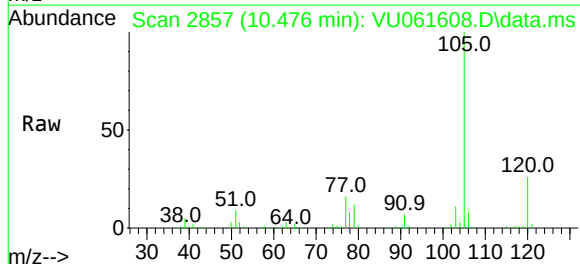
VU1112WBSD01

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#70

1,1,2,2-Tetrachloroethane

Concen: 1.788 ug/l

RT: 10.772 min Scan# 2949

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

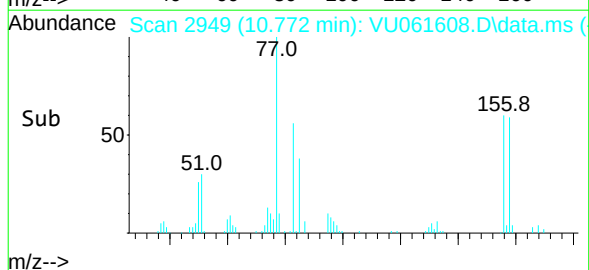
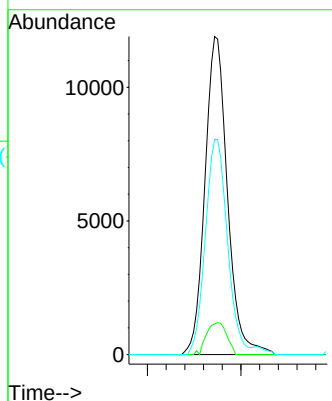
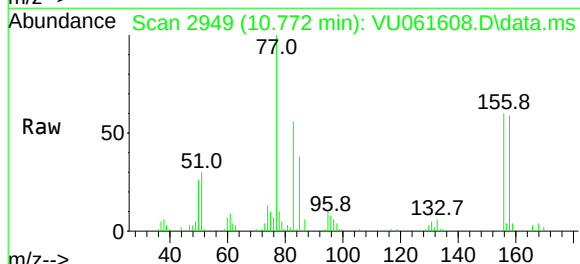
Tgt Ion: 83 Resp: 19884

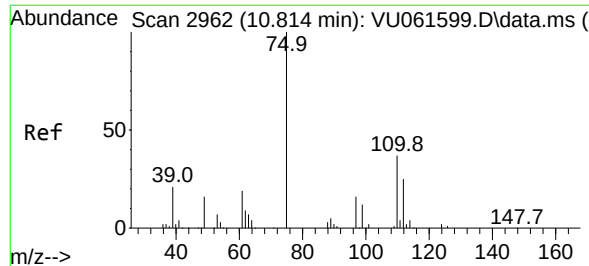
Ion Ratio Lower Upper

83 100

131 9.0 7.9 11.9

85 66.2 51.4 77.2





#71

1,2,3-Trichloropropane

Concen: 1.877 ug/l m

RT: 10.817 min Scan# 29

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 75 Resp: 16801

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

110 32.6 0.0 61.6

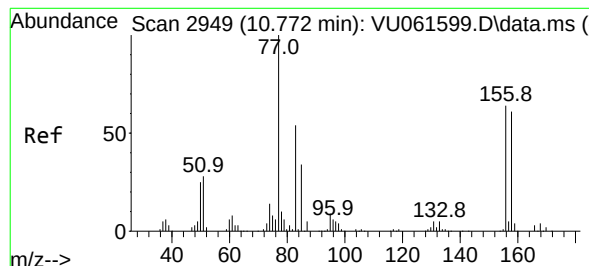
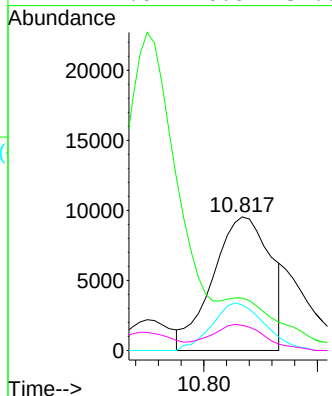
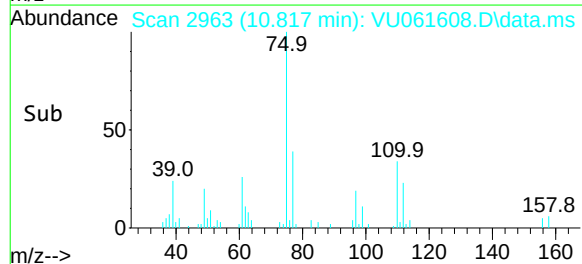
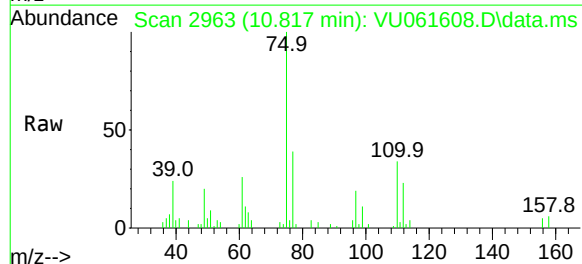
97 19.0 0.0 34.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#72

Bromobenzene

Concen: 1.839 ug/l

RT: 10.778 min Scan# 2951

Delta R.T. 0.006 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

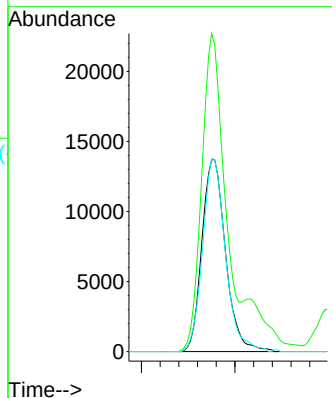
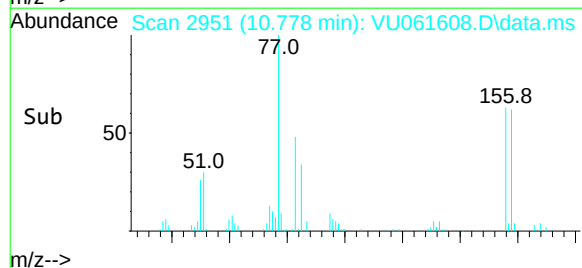
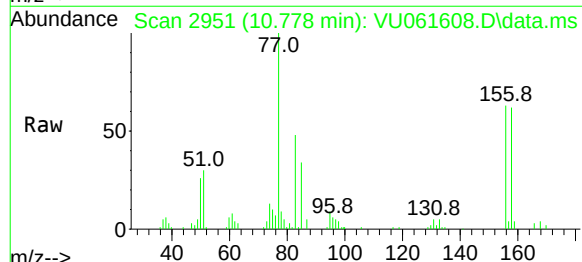
Tgt Ion:156 Resp: 24104

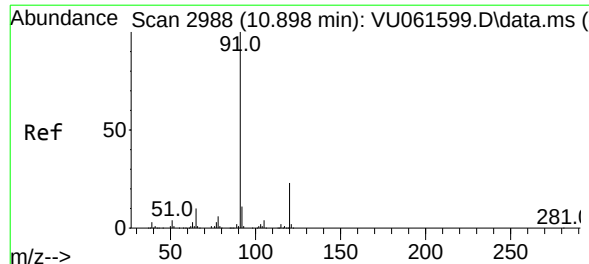
Ion Ratio Lower Upper

156 100

77 159.3 0.0 313.0

158 97.4 0.0 193.2





#73

n-propylbenzene

Concen: 1.710 ug/l

RT: 10.897 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion:120 Resp: 24999

Ion Ratio Lower Upper

120 100

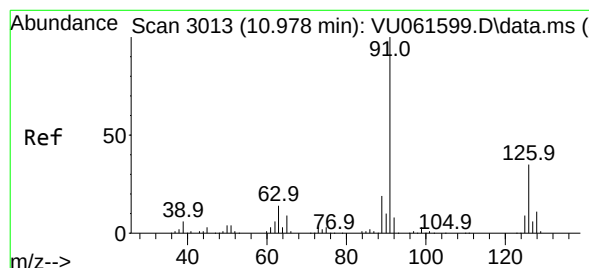
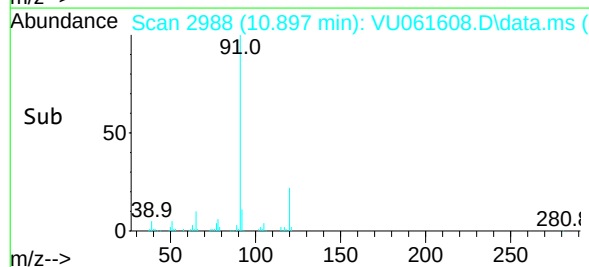
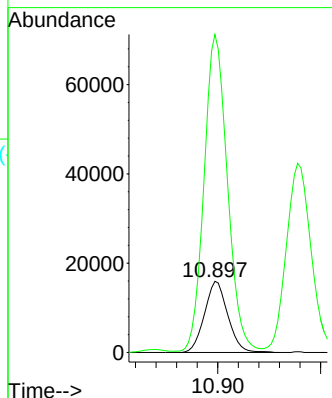
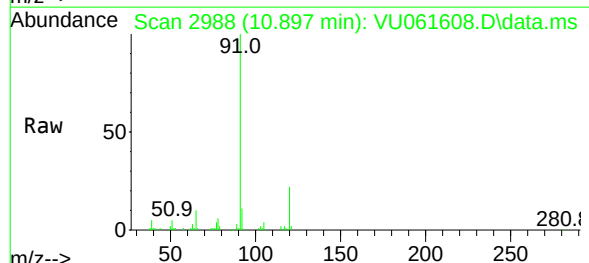
91 446.0 350.2 525.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#74

2-Chlorotoluene

Concen: 1.842 ug/l

RT: 10.978 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU061608.D

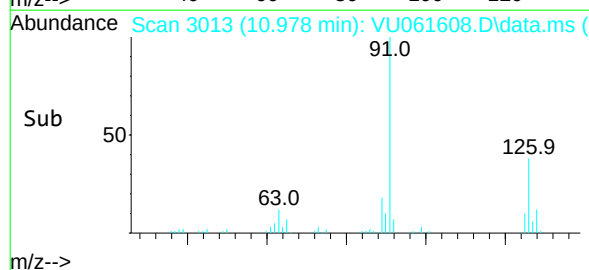
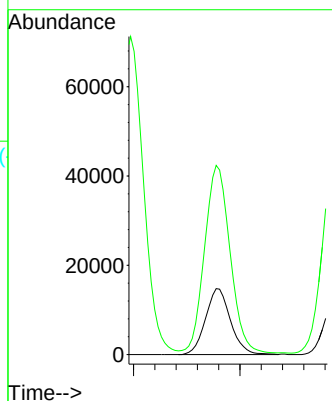
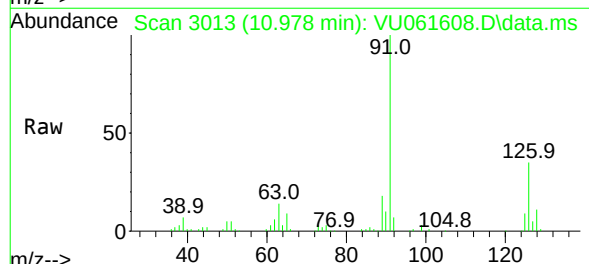
Acq: 12 Nov 2024 17:49

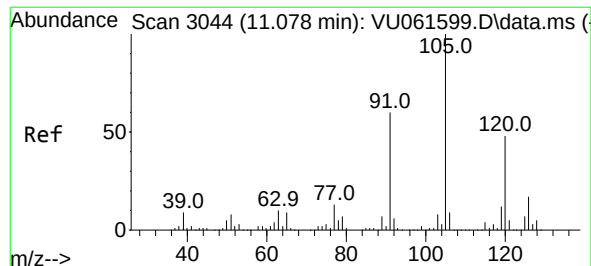
Tgt Ion:126 Resp: 24017

Ion Ratio Lower Upper

126 100

91 293.2 0.0 587.6





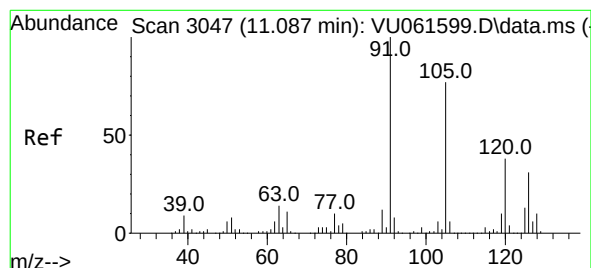
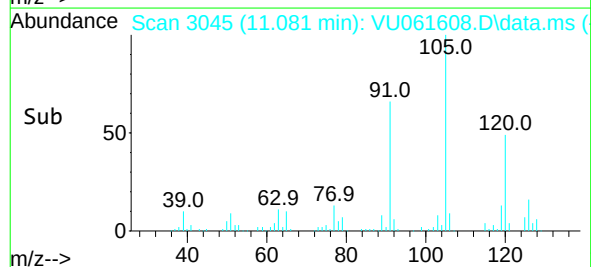
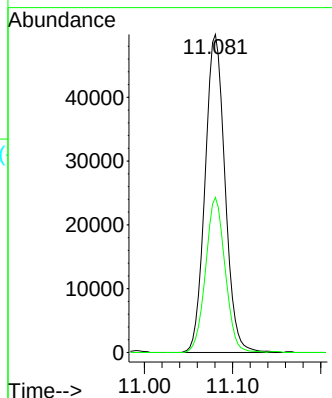
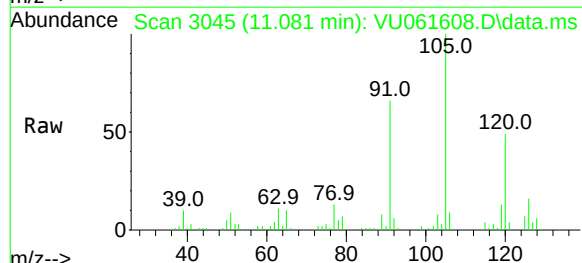
#75
1,3,5-Trimethylbenzene
Concen: 1.750 ug/l
RT: 11.081 min Scan# 3044
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01

Tgt Ion:105 Resp: 78326
Ion Ratio Lower Upper
105 100
120 47.8 38.8 58.2

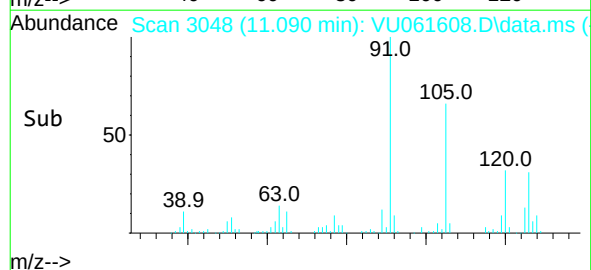
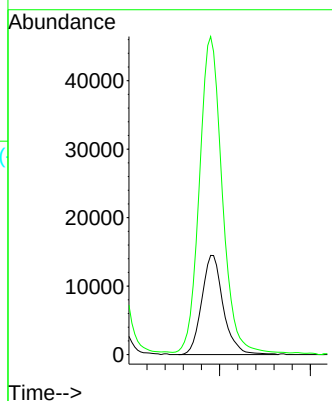
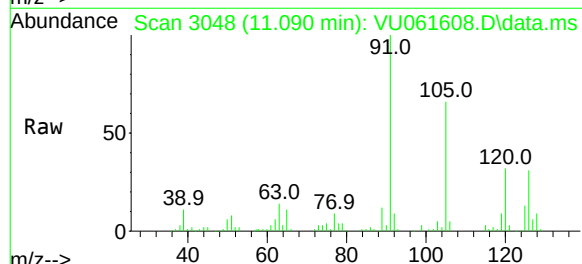
Manual Integrations
APPROVED

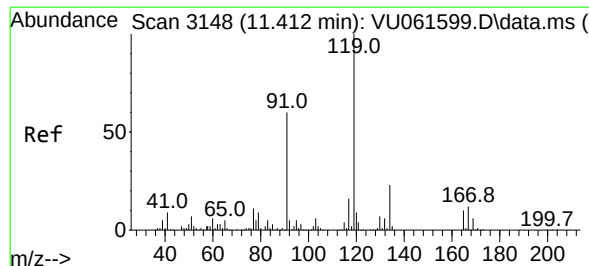
Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#76
4-Chlorotoluene
Concen: 1.778 ug/l
RT: 11.090 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Tgt Ion:126 Resp: 23841
Ion Ratio Lower Upper
126 100
91 335.9 0.0 650.4





#77

tert-Butylbenzene

Concen: 1.756 ug/l

RT: 11.412 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

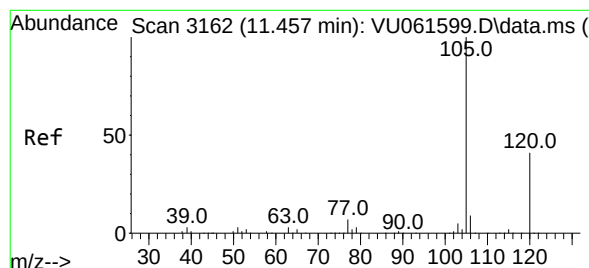
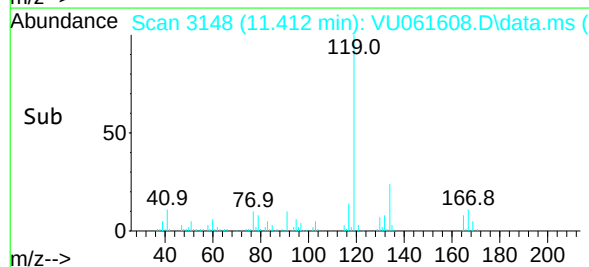
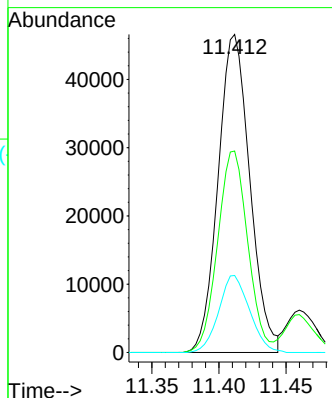
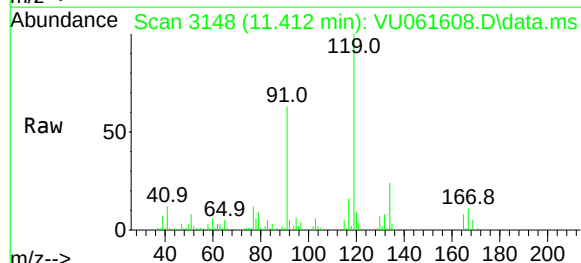
ClientSampleId :

VU1112WBSD01

Tgt Ion:	119	Resp:	76726
Ion Ratio	Lower	Upper	
119	100		
91	60.3	29.2	87.6
134	23.5	18.4	27.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#78

1,2,4-Trimethylbenzene

Concen: 1.716 ug/l

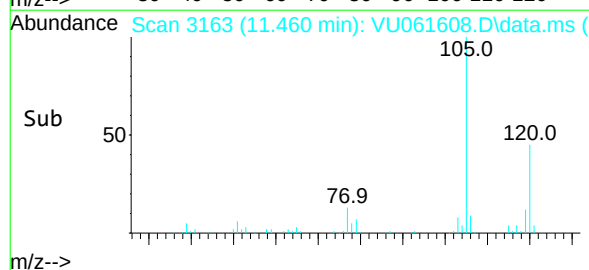
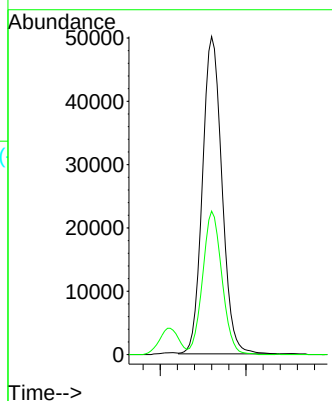
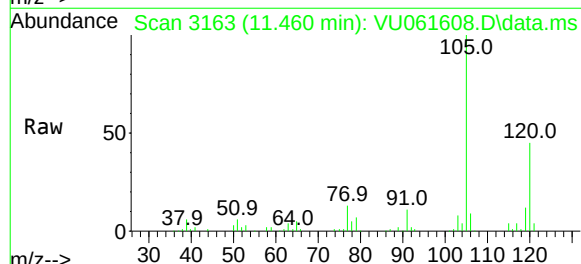
RT: 11.460 min Scan# 3163

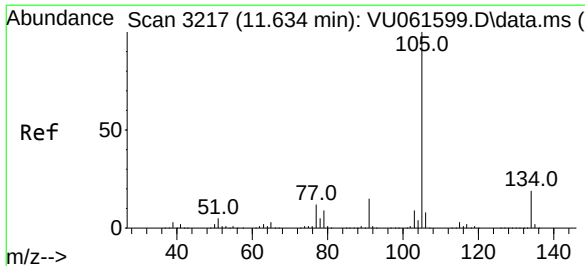
Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion:	105	Resp:	79279
Ion Ratio	Lower	Upper	
105	100		
120	44.8	22.7	68.0





#79

sec-Butylbenzene

Concen: 1.756 ug/l

RT: 11.634 min Scan# 3217

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion: 105 Resp: 101695

Ion Ratio Lower Upper

105 100

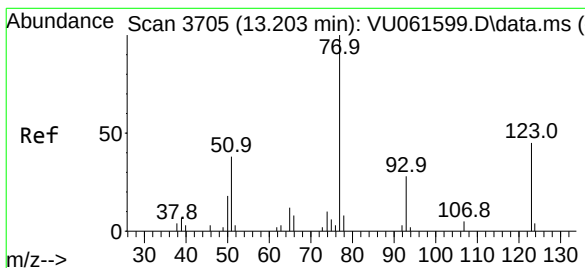
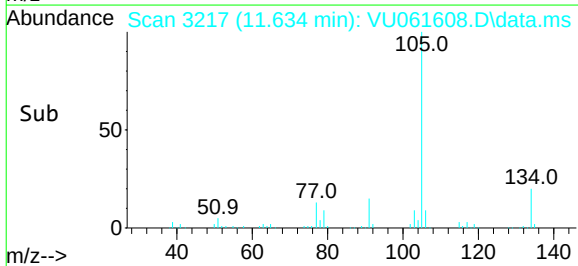
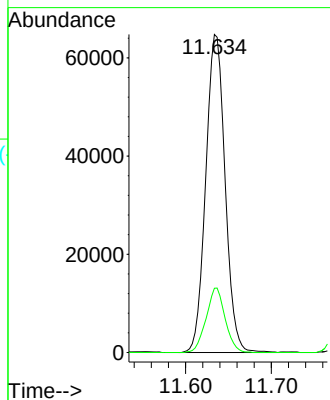
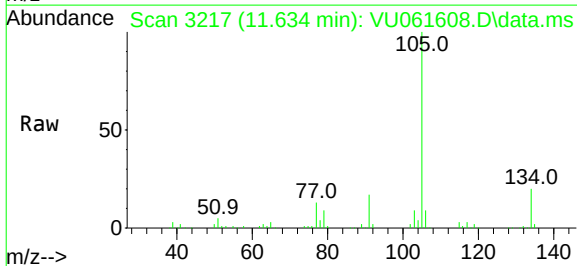
134 19.9 15.8 23.8

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/13/2024

Supervised By : Mahesh Dadoda 11/13/2024



#80

Nitrobenzene

Concen: 9.771 ug/l

RT: 13.222 min Scan# 3711

Delta R.T. 0.019 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

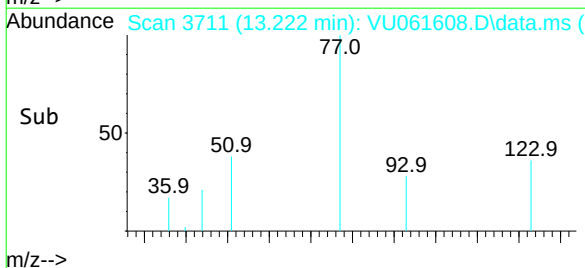
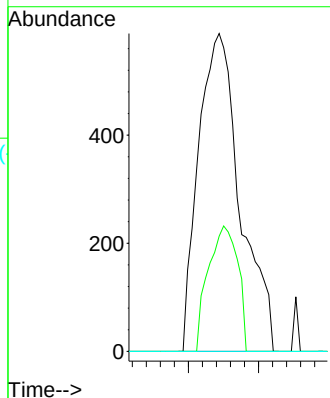
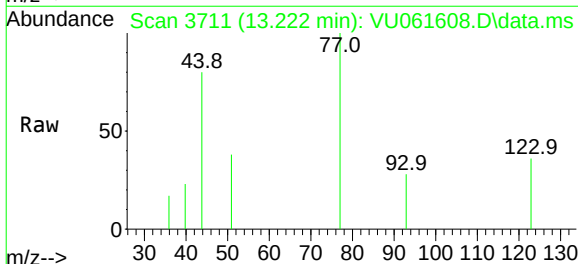
Tgt Ion: 77 Resp: 1212

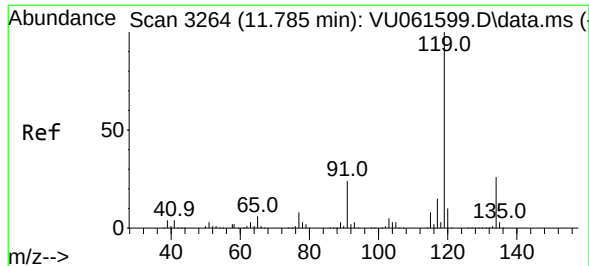
Ion Ratio Lower Upper

77 100

123 28.0 16.9 60.1

65 0.0 9.4 12.0#





#81

p-Isopropyltoluene

Concen: 1.696 ug/l

RT: 11.785 min Scan# 32

Delta R.T. -0.000 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

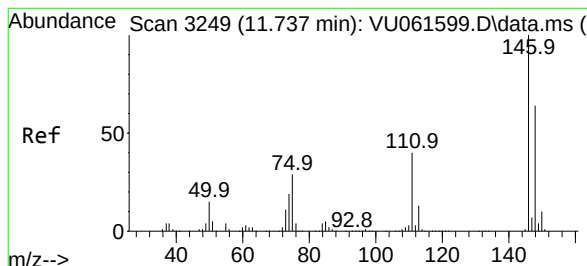
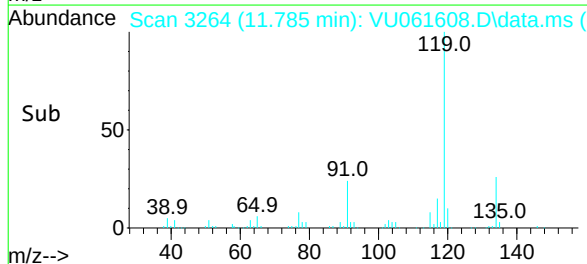
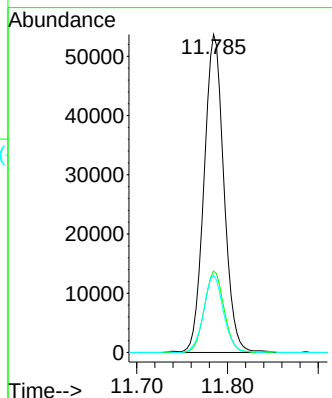
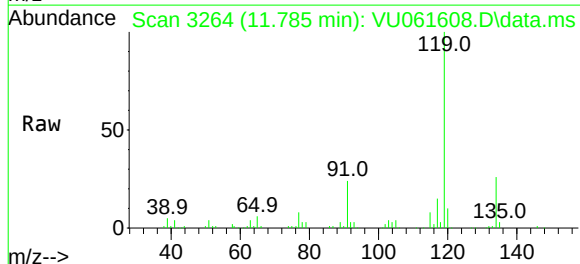
Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion:	119	Resp:	81390
Ion Ratio	Lower	Upper	
119	100		
134	25.4	20.9	31.3
91	24.2	18.8	28.2

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024

#82

1,3-Dichlorobenzene

Concen: 1.819 ug/l

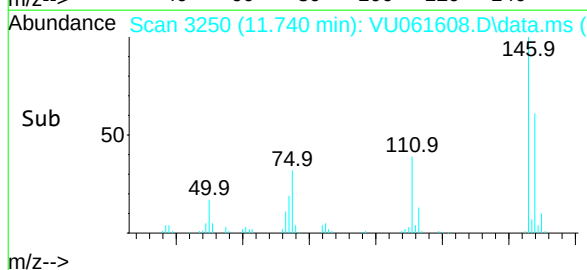
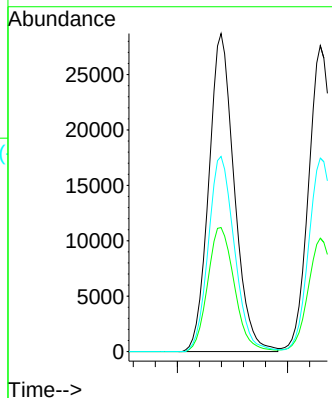
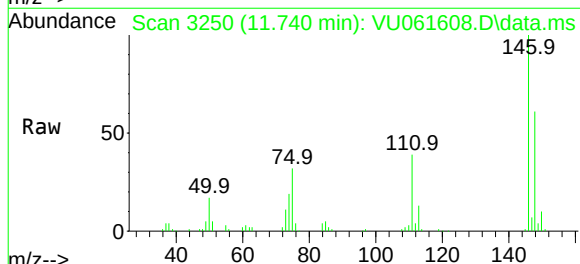
RT: 11.740 min Scan# 3250

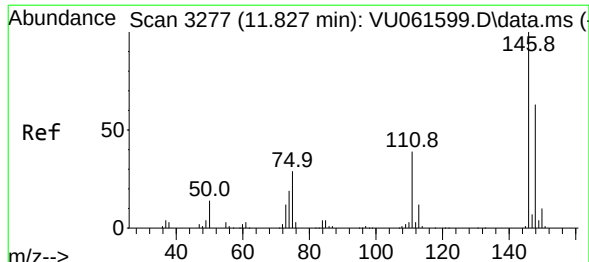
Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

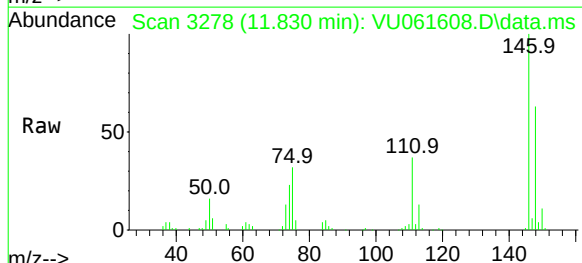
Tgt Ion:	146	Resp:	46110
Ion Ratio	Lower	Upper	
146	100		
111	41.0	32.6	49.0
148	63.0	51.0	76.4





#83
1,4-Dichlorobenzene
Concen: 1.751 ug/l
RT: 11.830 min Scan# 3277
Delta R.T. 0.003 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

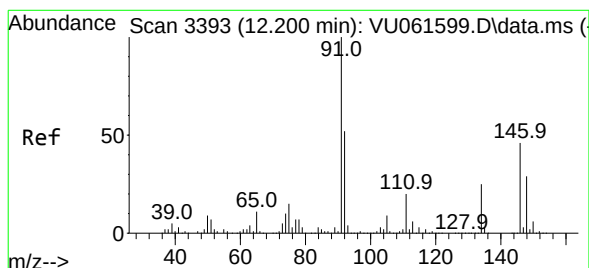
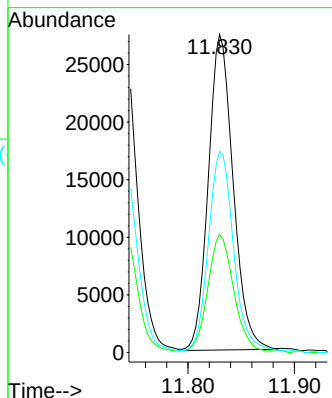
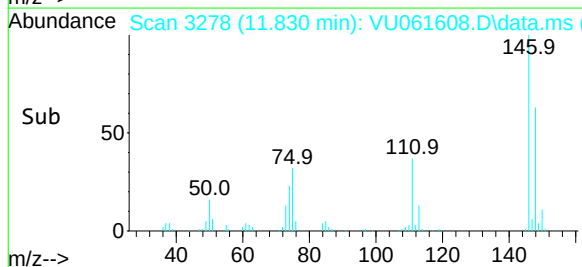
Instrument :
MSVOA_U
ClientSampleId :
VU1112WBSD01



Tgt Ion: 146 Resp: 44423
Ion Ratio Lower Upper
146 100
111 38.0 31.2 46.8
148 65.7 50.2 75.2

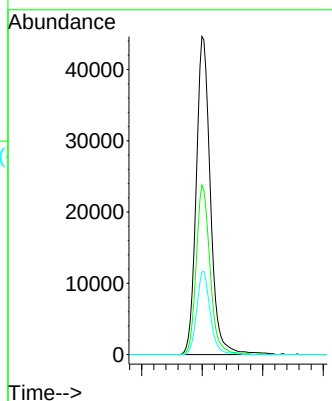
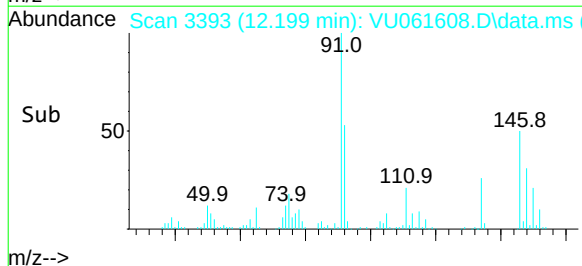
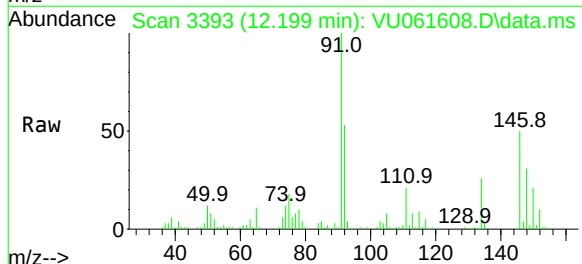
Manual Integrations
APPROVED

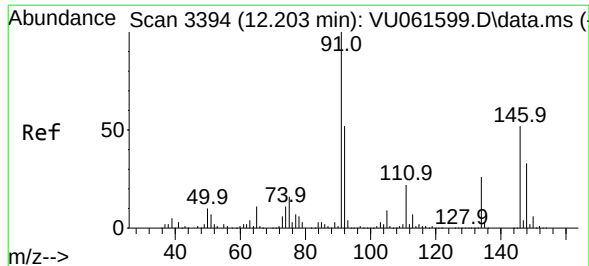
Reviewed By : Semsettin Yesilyurt 11/13/2024
Supervised By : Mahesh Dadoda 11/13/2024



#84
n-Butylbenzene
Concen: 1.657 ug/l
RT: 12.199 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VU061608.D
Acq: 12 Nov 2024 17:49

Tgt Ion: 91 Resp: 72971
Ion Ratio Lower Upper
91 100
92 51.6 41.8 62.6
134 24.7 20.2 30.4





#85

1,2-Dichlorobenzene

Concen: 1.829 ug/l

RT: 12.206 min Scan# 3394

Delta R.T. 0.003 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

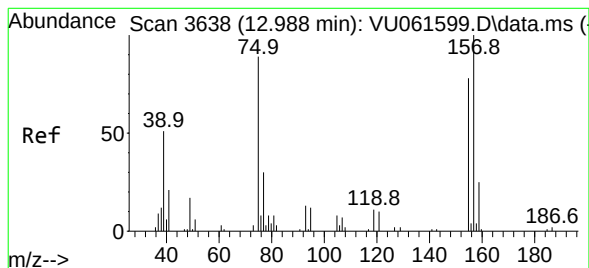
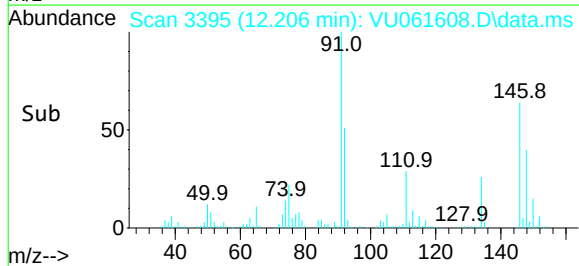
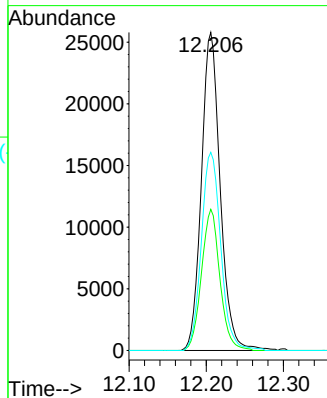
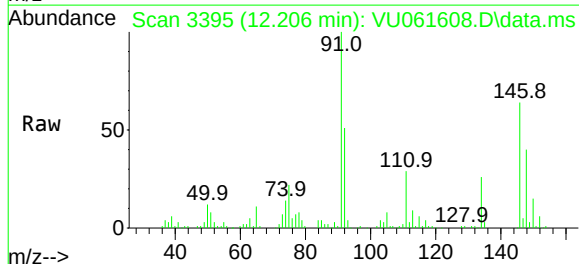
ClientSampleId :

VU1112WBSD01

Tgt Ion:	146	Resp:	43775
Ion Ratio	Lower	Upper	
146	100		
111	43.4	21.3	63.9
148	64.3	32.0	96.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#86

1,2-Dibromo-3-Chloropropane

Concen: 1.646 ug/l

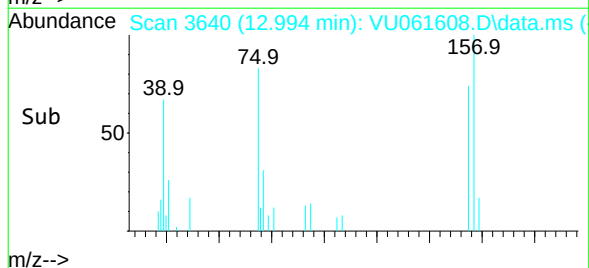
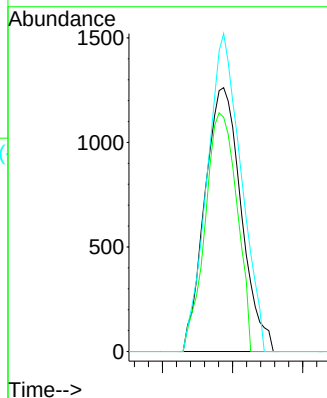
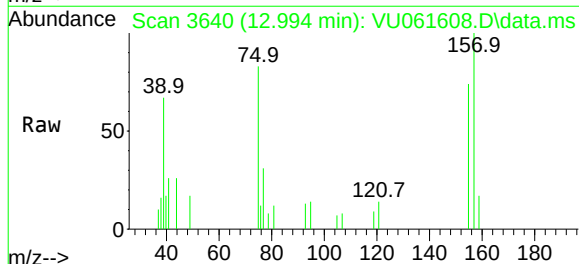
RT: 12.994 min Scan# 3640

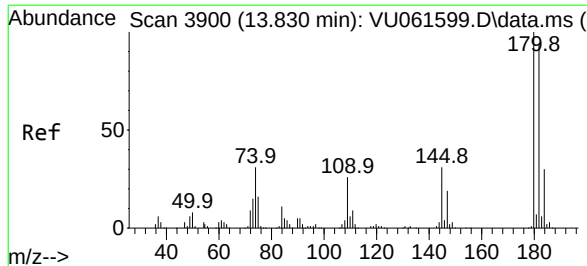
Delta R.T. 0.006 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Tgt Ion:	75	Resp:	2273
Ion Ratio	Lower	Upper	
75	100		
155	79.0	68.8	103.2
157	112.4	88.2	132.4





#87

1,2,4-Trichlorobenzene

Concen: 1.819 ug/l

RT: 13.836 min Scan# 3900

Delta R.T. 0.006 min

Lab File: VU061608.D

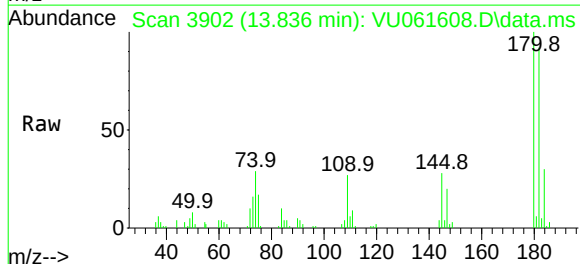
Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

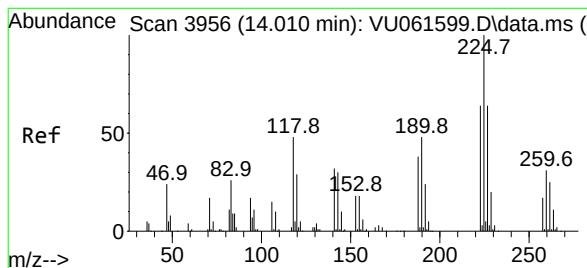
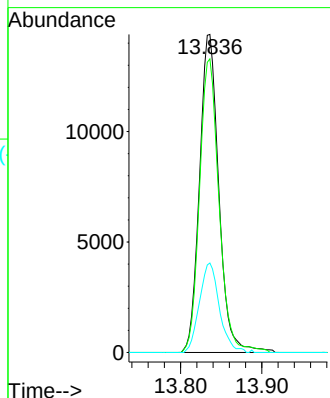
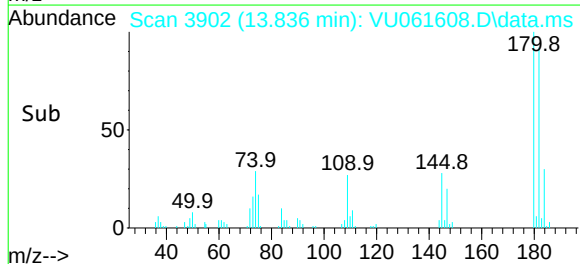
VU1112WBSD01



Tgt Ion:	180	Resp:	23775
Ion Ratio	Lower	Upper	
180	100		
182	93.1	75.3	112.9
145	29.1	24.3	36.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024
Supervised By :Mahesh Dadoda 11/13/2024



#88

Hexachlorobutadiene

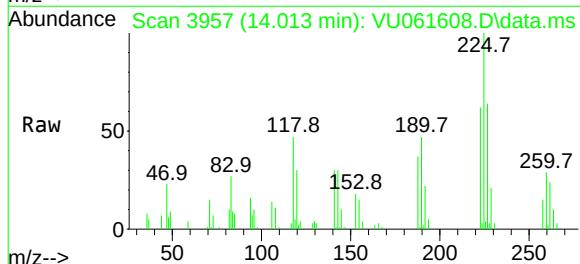
Concen: 1.762 ug/l

RT: 14.013 min Scan# 3957

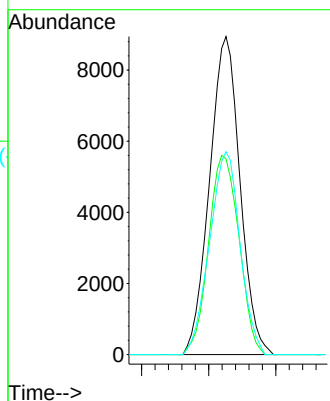
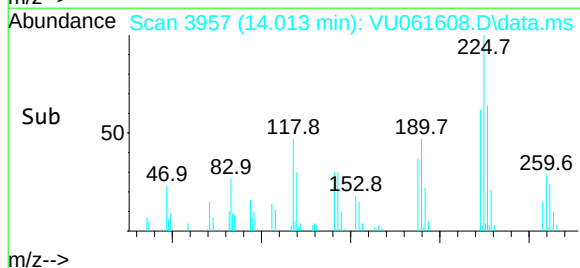
Delta R.T. 0.003 min

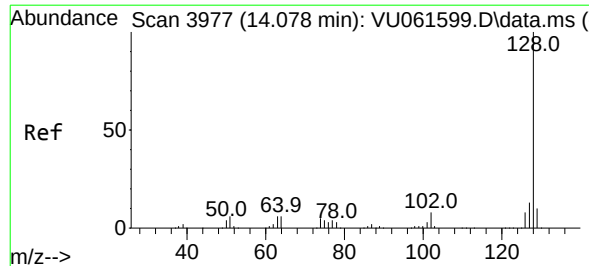
Lab File: VU061608.D

Acq: 12 Nov 2024 17:49



Tgt Ion:	225	Resp:	14080
Ion Ratio	Lower	Upper	
225	100		
223	62.5	50.8	76.2
227	63.7	51.2	76.8





#89

Naphthalene

Concen: 1.829 ug/l

RT: 14.084 min Scan# 3977

Delta R.T. 0.006 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

Instrument :

MSVOA_U

ClientSampleId :

VU1112WBSD01

Tgt Ion:128 Resp: 36778

Ion Ratio Lower Upper

128 100

127 12.3 10.3 15.5

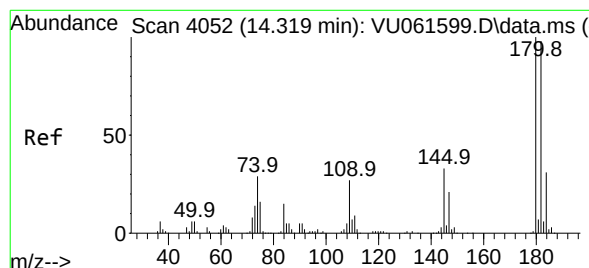
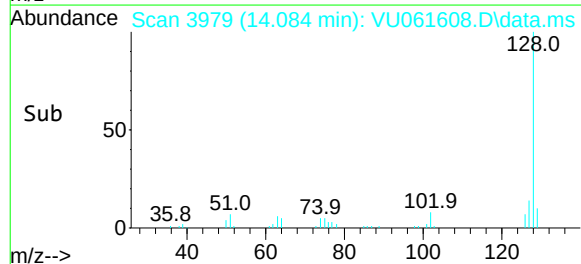
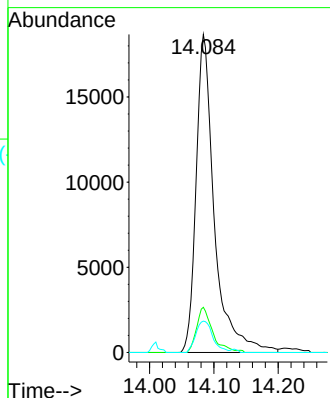
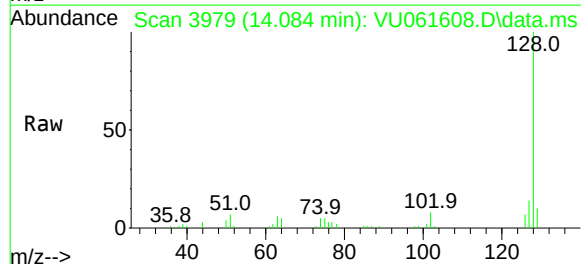
129 9.2 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2024

Supervised By :Mahesh Dadoda 11/13/2024



#90

1,2,3-Trichlorobenzene

Concen: 1.847 ug/l

RT: 14.325 min Scan# 4054

Delta R.T. 0.006 min

Lab File: VU061608.D

Acq: 12 Nov 2024 17:49

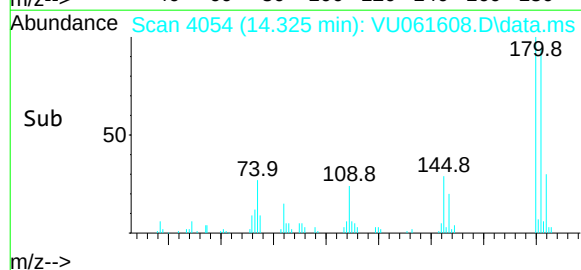
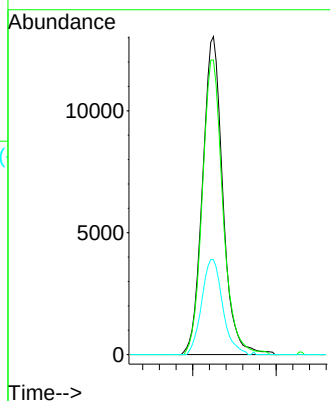
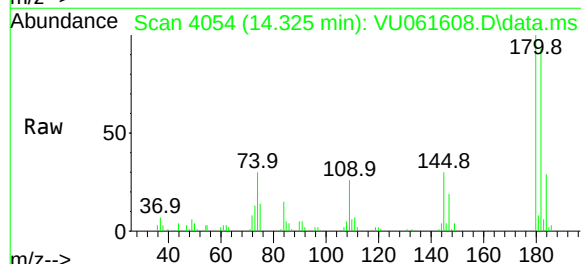
Tgt Ion:180 Resp: 22019

Ion Ratio Lower Upper

180 100

182 94.1 77.9 116.9

145 30.9 25.9 38.9



Manual Integration Report

Sequence:	vu111224	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VU061595.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:12:53 PM	MMDadoda	11/13/2024 4:52:41 PM	Peak Integrated by Software
VSTDICC0.5	VU061595.D	Acrylonitrile	SAM	11/13/2024 4:12:53 PM	MMDadoda	11/13/2024 4:52:41 PM	Peak Integrated by Software
VSTDICC0.5	VU061595.D	Cyclohexane	SAM	11/13/2024 4:12:53 PM	MMDadoda	11/13/2024 4:52:41 PM	Peak Integrated by Software
VSTDICC0.5	VU061595.D	Methacrylonitrile	SAM	11/13/2024 4:12:53 PM	MMDadoda	11/13/2024 4:52:41 PM	Peak Integrated by Software
VSTDICC0.5	VU061595.D	Methyl acrylate	SAM	11/13/2024 4:12:53 PM	MMDadoda	11/13/2024 4:52:41 PM	Peak Integrated by Software
VSTDICC0.5	VU061595.D	Propionitrile	SAM	11/13/2024 4:12:53 PM	MMDadoda	11/13/2024 4:52:41 PM	Peak Integrated by Software
VSTDICC0.5	VU061595.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:12:53 PM	MMDadoda	11/13/2024 4:52:41 PM	Peak Integrated by Software
VSTDICC0.5	VU061595.D	Tetrahydrofuran	SAM	11/13/2024 4:12:53 PM	MMDadoda	11/13/2024 4:52:41 PM	Peak Integrated by Software
VSTDICC001	VU061596.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:13:22 PM	MMDadoda	11/13/2024 4:52:40 PM	Peak Integrated by Software
VSTDICC001	VU061596.D	Acrylonitrile	SAM	11/13/2024 4:13:22 PM	MMDadoda	11/13/2024 4:52:40 PM	Peak Integrated by Software
VSTDICC001	VU061596.D	Cyclohexane	SAM	11/13/2024 4:13:22 PM	MMDadoda	11/13/2024 4:52:40 PM	Peak Integrated by Software
VSTDICC001	VU061596.D	Methyl acrylate	SAM	11/13/2024 4:13:22 PM	MMDadoda	11/13/2024 4:52:40 PM	Peak Integrated by Software
VSTDICC001	VU061596.D	Nitrobenzene	SAM	11/13/2024 4:13:22 PM	MMDadoda	11/13/2024 4:52:40 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vu111224	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VU061596.D	Propionitrile	SAM	11/13/2024 4:13:22 PM	MMDadoda	11/13/2024 4:52:40 PM	Peak Integrated by Software
VSTDICC001	VU061596.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:13:22 PM	MMDadoda	11/13/2024 4:52:40 PM	Peak Integrated by Software
VSTDICC001	VU061596.D	tert-Butyl Alcohol	SAM	11/13/2024 4:13:22 PM	MMDadoda	11/13/2024 4:52:40 PM	Peak Integrated by Software
VSTDICC002	VU061597.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:16:34 PM	MMDadoda	11/13/2024 4:52:38 PM	Peak Integrated by Software
VSTDICC002	VU061597.D	Acrylonitrile	SAM	11/13/2024 4:16:34 PM	MMDadoda	11/13/2024 4:52:38 PM	Peak Integrated by Software
VSTDICC002	VU061597.D	Cyclohexane	SAM	11/13/2024 4:16:34 PM	MMDadoda	11/13/2024 4:52:38 PM	Peak Integrated by Software
VSTDICC002	VU061597.D	Methyl acrylate	SAM	11/13/2024 4:16:34 PM	MMDadoda	11/13/2024 4:52:38 PM	Peak Integrated by Software
VSTDICC002	VU061597.D	Nitrobenzene	SAM	11/13/2024 4:16:34 PM	MMDadoda	11/13/2024 4:52:38 PM	Peak Integrated by Software
VSTDICC002	VU061597.D	Propionitrile	SAM	11/13/2024 4:16:34 PM	MMDadoda	11/13/2024 4:52:38 PM	Peak Integrated by Software
VSTDICC002	VU061597.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:16:34 PM	MMDadoda	11/13/2024 4:52:38 PM	Peak Integrated by Software
VSTDICC002	VU061597.D	tert-Butyl Alcohol	SAM	11/13/2024 4:16:34 PM	MMDadoda	11/13/2024 4:52:38 PM	Peak Integrated by Software
VSTDICC005	VU061598.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:13:27 PM	MMDadoda	11/13/2024 4:52:37 PM	Peak Integrated by Software
VSTDICC005	VU061598.D	Cyclohexane	SAM	11/13/2024 4:13:27 PM	MMDadoda	11/13/2024 4:52:37 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vu111224	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VU061598.D	Nitrobenzene	SAM	11/13/2024 4:13:27 PM	MMDadoda	11/13/2024 4:52:37 PM	Peak Integrated by Software
VSTDIC005	VU061598.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:13:27 PM	MMDadoda	11/13/2024 4:52:37 PM	Peak Integrated by Software
VSTDIC005	VU061598.D	tert-Butyl Alcohol	SAM	11/13/2024 4:13:27 PM	MMDadoda	11/13/2024 4:52:37 PM	Peak Integrated by Software
VSTDICCC010	VU061599.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:16:38 PM	MMDadoda	11/13/2024 4:52:35 PM	Peak Integrated by Software
VSTDICCC010	VU061599.D	Cyclohexane	SAM	11/13/2024 4:16:38 PM	MMDadoda	11/13/2024 4:52:35 PM	Peak Integrated by Software
VSTDICCC010	VU061599.D	Nitrobenzene	SAM	11/13/2024 4:16:38 PM	MMDadoda	11/13/2024 4:52:35 PM	Peak Integrated by Software
VSTDICCC010	VU061599.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:16:38 PM	MMDadoda	11/13/2024 4:52:35 PM	Peak Integrated by Software
VSTDIC015	VU061600.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:13:31 PM	MMDadoda	11/13/2024 4:52:34 PM	Peak Integrated by Software
VSTDIC015	VU061600.D	Cyclohexane	SAM	11/13/2024 4:13:31 PM	MMDadoda	11/13/2024 4:52:34 PM	Peak Integrated by Software
VSTDIC015	VU061600.D	Nitrobenzene	SAM	11/13/2024 4:13:31 PM	MMDadoda	11/13/2024 4:52:34 PM	Peak Integrated by Software
VSTDIC015	VU061600.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:13:31 PM	MMDadoda	11/13/2024 4:52:34 PM	Peak Integrated by Software
VSTDICV010	VU061601.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:13:35 PM	MMDadoda	11/13/2024 4:52:31 PM	Peak Integrated by Software
VSTDICV010	VU061601.D	Cyclohexane	SAM	11/13/2024 4:13:35 PM	MMDadoda	11/13/2024 4:52:31 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vu111224	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV010	VU061601.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:13:35 PM	MMDadoda	11/13/2024 4:52:31 PM	Peak Integrated by Software
VSTDICV010	VU061601.D	tert-Butyl Alcohol	SAM	11/13/2024 4:13:35 PM	MMDadoda	11/13/2024 4:52:31 PM	Peak Integrated by Software
VU1112WBS01	VU061607.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:13:40 PM	MMDadoda	11/13/2024 4:52:29 PM	Peak Integrated by Software
VU1112WBS01	VU061607.D	Acrylonitrile	SAM	11/13/2024 4:13:40 PM	MMDadoda	11/13/2024 4:52:29 PM	Peak Integrated by Software
VU1112WBS01	VU061607.D	Cyclohexane	SAM	11/13/2024 4:13:40 PM	MMDadoda	11/13/2024 4:52:29 PM	Peak Integrated by Software
VU1112WBS01	VU061607.D	Methyl acrylate	SAM	11/13/2024 4:13:40 PM	MMDadoda	11/13/2024 4:52:29 PM	Peak Integrated by Software
VU1112WBS01	VU061607.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:13:40 PM	MMDadoda	11/13/2024 4:52:29 PM	Peak Integrated by Software
VU1112WBS01	VU061607.D	tert-Butyl Alcohol	SAM	11/13/2024 4:13:40 PM	MMDadoda	11/13/2024 4:52:29 PM	Peak Integrated by Software
VU1112WBSD0 1	VU061608.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:13:44 PM	MMDadoda	11/13/2024 4:52:28 PM	Peak Integrated by Software
VU1112WBSD0 1	VU061608.D	Acrylonitrile	SAM	11/13/2024 4:13:44 PM	MMDadoda	11/13/2024 4:52:28 PM	Peak Integrated by Software
VU1112WBSD0 1	VU061608.D	Cyclohexane	SAM	11/13/2024 4:13:44 PM	MMDadoda	11/13/2024 4:52:28 PM	Peak Integrated by Software
VU1112WBSD0 1	VU061608.D	Methyl acrylate	SAM	11/13/2024 4:13:44 PM	MMDadoda	11/13/2024 4:52:28 PM	Peak Integrated by Software
VU1112WBSD0 1	VU061608.D	Propionitrile	SAM	11/13/2024 4:13:44 PM	MMDadoda	11/13/2024 4:52:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vu111224	Instrument	MSVOA_u

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VU1112WBSD0 1	VU061608.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:13:44 PM	MMDadoda	11/13/2024 4:52:28 PM	Peak Integrated by Software
VU1112WBSD0 1	VU061608.D	tert-Butyl Alcohol	SAM	11/13/2024 4:13:44 PM	MMDadoda	11/13/2024 4:52:28 PM	Peak Integrated by Software
VSTDCCC010	VU061611.D	1,2,3-Trichloropropane	SAM	11/13/2024 4:13:49 PM	MMDadoda	11/13/2024 4:52:26 PM	Peak Integrated by Software
VSTDCCC010	VU061611.D	Cyclohexane	SAM	11/13/2024 4:13:49 PM	MMDadoda	11/13/2024 4:52:26 PM	Peak Integrated by Software
VSTDCCC010	VU061611.D	t-1,4-Dichloro-2-butene	SAM	11/13/2024 4:13:49 PM	MMDadoda	11/13/2024 4:52:26 PM	Peak Integrated by Software

Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QC Batch ID # VU111224

Review By	Semsettin Yesilyurt	Review On	11/13/2024 4:19:55 PM		
Supervise By	Maresh Dadoda	Supervise On	11/13/2024 4:52:46 PM		
SubDirectory	VU111224	HP Acquire Method	MSVOA_U	HP Processing Method	524U111224DW.M
STD. NAME	STD REF.#				
Tune/Reschk	VP131396				
Initial Calibration Stds	VP131397,VP131398,VP131399,VP131400,VP131401,VP131402				
CCC	VP131404				
Internal Standard/PEM	VP129503				
ICV/I.BLK	VP131403				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VU061594.D	12 Nov 2024 07:51	MD/SY	Ok
2	VSTDICC0.5	VU061595.D	12 Nov 2024 08:30	MD/SY	Ok,M
3	VSTDICC001	VU061596.D	12 Nov 2024 09:32	MD/SY	Ok,M
4	VSTDICC002	VU061597.D	12 Nov 2024 09:57	MD/SY	Ok,M
5	VSTDICC005	VU061598.D	12 Nov 2024 10:21	MD/SY	Ok,M
6	VSTDICCC010	VU061599.D	12 Nov 2024 10:46	MD/SY	Ok,M
7	VSTDICC015	VU061600.D	12 Nov 2024 11:10	MD/SY	Ok,M
8	VSTDICV010	VU061601.D	12 Nov 2024 12:20	MD/SY	Ok,M
9	VU1112WBL01	VU061602.D	12 Nov 2024 13:15	MD/SY	Ok
10	P4635-01	VU061603.D	12 Nov 2024 14:44	MD/SY	Dilution
11	VIBLK	VU061604.D	12 Nov 2024 15:19	MD/SY	Ok
12	P4635-01DL	VU061605.D	12 Nov 2024 16:11	MD/SY	Not Ok
13	P4635-01DL	VU061606.D	12 Nov 2024 16:35	MD/SY	Not Ok
14	VU1112WBS01	VU061607.D	12 Nov 2024 17:24	MD/SY	Ok,M
15	VU1112WBSD01	VU061608.D	12 Nov 2024 17:49	MD/SY	Ok,M
16	P4635-01DL	VU061609.D	12 Nov 2024 18:13	MD/SY	Ok
17	P4635-01DL	VU061610.D	12 Nov 2024 18:38	MD/SY	Not Ok
18	VSTDCCC010	VU061611.D	12 Nov 2024 19:02	MD/SY	Ok,M

M : Manual Integration

Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QC Batch ID # VU111224

Review By	Semsettin Yesilyurt	Review On	11/13/2024 4:19:55 PM
Supervise By	Mahesh Dadoda	Supervise On	11/13/2024 4:52:46 PM
SubDirectory	VU111224	HP Acquire Method	MSVOA_U
		HP Processing Method	524U111224DW.M

STD. NAME	STD REF.#
Tune/Reschk	VP131396
Initial Calibration Stds	VP131397,VP131398,VP131399,VP131400,VP131401,VP131402
CCC	VP131404
Internal Standard/PEM	VP129503
ICV/I.BLK	VP131403
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VU061594.D	12 Nov 2024 07:51		MD/SY	Ok
2	VSTDICC0.5	VSTDICC0.5	VU061595.D	12 Nov 2024 08:30	%D fail for Comp. #87,89,90 in 0.5PPB	MD/SY	Ok,M
3	VSTDICC001	VSTDICC001	VU061596.D	12 Nov 2024 09:32		MD/SY	Ok,M
4	VSTDICC002	VSTDICC002	VU061597.D	12 Nov 2024 09:57		MD/SY	Ok,M
5	VSTDICC005	VSTDICC005	VU061598.D	12 Nov 2024 10:21		MD/SY	Ok,M
6	VSTDICCC010	VSTDICCC010	VU061599.D	12 Nov 2024 10:46	Comp. #10,62,66,78,80,81,84,86,87,89, 90 are on Linear Regression	MD/SY	Ok,M
7	VSTDICC015	VSTDICC015	VU061600.D	12 Nov 2024 11:10		MD/SY	Ok,M
8	VSTDICV010	ICVVU111224	VU061601.D	12 Nov 2024 12:20		MD/SY	Ok,M
9	VU1112WBL01	VU1112WBL01	VU061602.D	12 Nov 2024 13:15		MD/SY	Ok
10	P4635-01	PT-THM-WS	VU061603.D	12 Nov 2024 14:44	Need 4X,	MD/SY	Dilution
11	VIBLK	VIBLK	VU061604.D	12 Nov 2024 15:19		MD/SY	Ok
12	P4635-01DL	PT-THM-WSDL	VU061605.D	12 Nov 2024 16:11	Not match	MD/SY	Not Ok
13	P4635-01DL	PT-THM-WSDL	VU061606.D	12 Nov 2024 16:35	Need Further Dilution	MD/SY	Not Ok
14	VU1112WBS01	VU1112WBS01	VU061607.D	12 Nov 2024 17:24		MD/SY	Ok,M
15	VU1112WBSD01	VU1112WBSD01	VU061608.D	12 Nov 2024 17:49		MD/SY	Ok,M
16	P4635-01DL	PT-THM-WSDL	VU061609.D	12 Nov 2024 18:13		MD/SY	Ok
17	P4635-01DL	PT-THM-WSDL	VU061610.D	12 Nov 2024 18:38	Not Required	MD/SY	Not Ok

Instrument ID: MSVOA_U

Daily Analysis Runlog For Sequence/QC Batch ID # VU111224

Review By	Semsettin Yesilyurt	Review On	11/13/2024 4:19:55 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/13/2024 4:52:46 PM		
SubDirectory	VU111224	HP Acquire Method	MSVOA_U	HP Processing Method	524U111224DW.M

STD. NAME	STD REF.#
Tune/Reschk	VP131396
Initial Calibration Stds	VP131397,VP131398,VP131399,VP131400,VP131401,VP131402
CCC	VP131404
Internal Standard/PEM	VP129503
ICV/I.BLK	VP131403
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	VSTDCCC010	VSTDCCC010EC	VU061611.D	12 Nov 2024 19:02		MD/SY	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P4635
Test : VOCMS Group4
Prepbatch ID :
Sequence ID/Qc Batch ID: vu111224,

Standard ID :
VP128290,VP128767,VP129503,VP130919,VP131134,VP131135,VP131396,VP131397,VP131398,VP131399,VP131400,VP131401,VP131402,VP131403,VP131404,

Chemical ID :
V13390,V13444,V13463,V13797,V13804,V13810,V13879,V14018,V14019,V14107,V14108,V14113,V14133,V14143,V14147,V14148,V14150,V14152,V14171,V14172,V14203,V14206,V14215,V14419,V14436,V14443,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>
218	BFB, 25PPM	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
06/12/2024								

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = 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>
252	8260 Working STD (BCM)-First source, 100PPM	VP128767	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/02/2024								

FROM 0.50000ml of V13463 + 9.50000ml of V14147 = Final Quantity: 10.000 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>
552	524 Internal STD and Surrogate Mix, 5 PPM	VP129503	08/01/2024	01/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
08/08/2024								

FROM 0.02500ml of V14133 + 9.97500ml of V14143 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
553	524 Calibration CC Mix Working STD, 25 PPM	VP130919	10/17/2024	12/31/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
10/18/2024								

FROM 0.12500ml of V13804 + 0.12500ml of V13879 + 0.12500ml of V14113 + 0.12500ml of V14419 + 0.25000ml of V14215 +
9.24500ml of V14152 = Final Quantity: 10.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP131134	10/28/2024	12/07/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda 10/30/2024
FROM 0.40000ml of V13444 + 1.00000ml of V13797 + 1.00000ml of V13810 + 1.00000ml of V14018 + 1.00000ml of V14019 + 1.00000ml of V14107 + 1.00000ml of V14108 + 1.00000ml of V14171 + 1.00000ml of V14172 + 1.00000ml of V14203 + 1.00000ml of V14436 + 1.00000ml of V14443 + 1.50000ml of V14206 + 1.50000ml of V14215 + 10.60000ml of V14150 = 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>
244	8260 Calibration Working STD Mix-First source, 100PPM	VP131135	10/28/2024	12/07/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda 10/30/2024
FROM 7.50000ml of V14150 + 12.50000ml of VP131134 = Final Quantity: 20.000 ml								

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1580	BFB TUNE CHECK-524.2	VP131396	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/20/2024								

FROM 39.99000ml of W3112 + 0.00160ml of VP128290 = 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>
1092	0.5 PPB ICC, 524.2	VP131397	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/20/2024								

FROM 39.99000ml of W3112 + 0.00080ml of VP130919 + 0.00800ml of VP129503 = 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>
1093	1 PPB ICC, 524.2	VP131398	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/20/2024								

FROM 39.99000ml of W3112 + 0.00160ml of VP130919 + 0.00800ml of VP129503 = 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>
1094	2 PPB ICC, 524.2	VP131399	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/20/2024								

FROM 39.98000ml of W3112 + 0.00320ml of VP130919 + 0.00800ml of VP129503 = 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>
1095	5 PPB ICC, 524.2	VP131400	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/20/2024								

FROM 39.98000ml of W3112 + 0.00800ml of VP129503 + 0.00800ml of VP130919 = 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>
1096	10 PPB ICC, 524.2	VP131401	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/20/2024								

FROM 39.97000ml of W3112 + 0.00800ml of VP129503 + 0.01600ml of VP130919 = 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>
1097	15 PPB ICC, 524.2	VP131402	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/20/2024								

FROM 39.96000ml of W3112 + 0.00800ml of VP129503 + 0.02400ml of VP130919 = 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>
1099	10 PPB ICV, 524.2	VP131403	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/20/2024								

FROM 39.98000ml of W3112 + 0.00400ml of VP128767 + 0.00400ml of VP131135 + 0.00800ml of VP129503 = 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>
1131	10 PPB CCC, 524.2	VP131404	11/12/2024	11/13/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 39.97000ml of W3112 + 0.00800ml of VP129503 + 0.01600ml of VP130919 = Final Quantity: 40.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	12/08/2024	12/08/2023 / SAM	01/13/2023 / SAM	V13390

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	A0181905	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13463

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	A0194279	04/17/2025	10/17/2024 / SAM	05/31/2023 / SAM	V13797

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	A0194279	03/16/2025	09/16/2024 / SAM	05/31/2023 / SAM	V13804

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	A0194279	04/17/2025	10/17/2024 / SAM	05/31/2023 / SAM	V13810

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	564323 / Custom Oxygenates Standard	A0199211	04/17/2025	10/17/2024 / SAM	06/30/2023 / SAM	V13879

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)	032922	03/16/2025	09/16/2024 / SAM	11/22/2023 / SAM	V14018

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)	032922	03/16/2025	09/16/2024 / SAM	11/22/2023 / SAM	V14019

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	A0205179	04/17/2025	10/17/2024 / SAM	12/22/2023 / SAM	V14107

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0205179	03/16/2025	09/16/2024 / SAM	12/22/2023 / SAM	V14108

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	560065 / Custom Standard, 524 Std w/ COC [CS 8005]	A0205870	12/31/2024	10/17/2024 / SAM	01/03/2024 / SAM	V14113

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30201 / VOA Mix,500 series method, 524 Internal Std., 2000ug/mL. P&TM, 1mL/ampul	A0168982	01/18/2025	01/18/2024 / SAM	01/18/2024 / SAM	V14133

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	04/23/2025	10/23/2024 / Rajesh	02/06/2024 / SAM	V14150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	04/14/2025	10/14/2024 / SAM	02/06/2024 / SAM	V14152

CHEMICAL RECEIPT LOG BOOK

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	03/16/2025	09/16/2024 / SAM	02/20/2024 / SAM	V14171

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	03/16/2025	09/16/2024 / SAM	02/20/2024 / SAM	V14172

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	A0200785	04/17/2025	10/17/2024 / SAM	02/28/2024 / SAM	V14203

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	A0200785	04/17/2025	10/17/2024 / SAM	02/28/2024 / SAM	V14206

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	A0200785	03/16/2025	09/16/2024 / SAM	02/28/2024 / SAM	V14215

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30601 / VOA Mega Mix, Drinking Water VOA Mega Mix, 524.2 Rev 4.1, 1mL, 2000ug/mL P&TM	A0204639	10/17/2025	10/17/2024 / SAM	06/04/2024 / SAM	V14419

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	09/16/2024 / SAM	08/15/2024 / SAM	V14436

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	03/16/2025	09/16/2024 / SAM	08/15/2024 / SAM	V14443

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



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#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

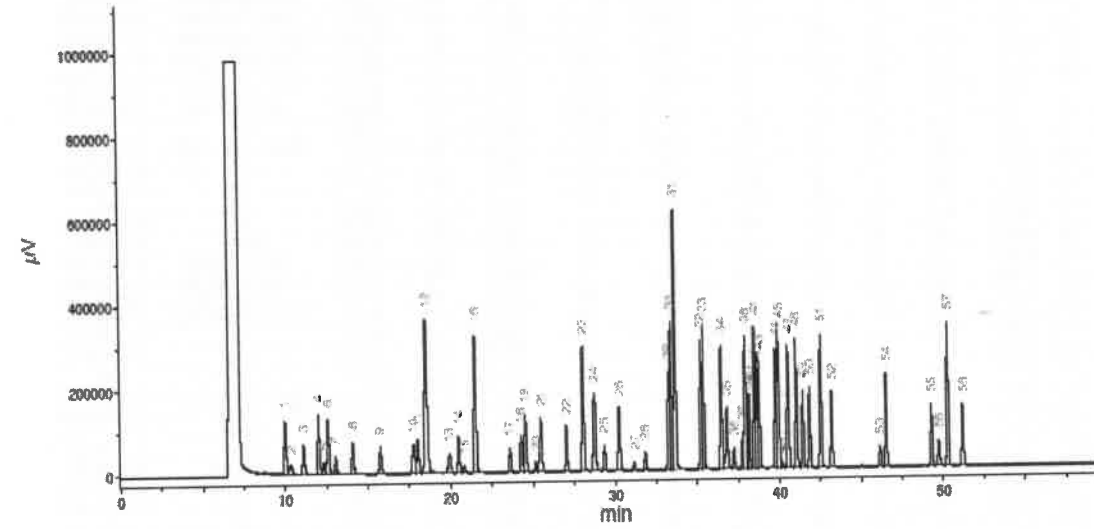
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	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)	(+/-) (µg/mL)	CAS#	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)	102395	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)	MKCR8581	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	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000K	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)	06126PK	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)	5HBF6718V	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 70mg/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 240mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-30-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0481)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	8.3	76-01-7	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 (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	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 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	107-06-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/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-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
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	1999.7	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 4900mg/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	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/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	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	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	1999.6	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	1999.6	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	1999.5	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000</										

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	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
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, 2023

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	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED 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#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

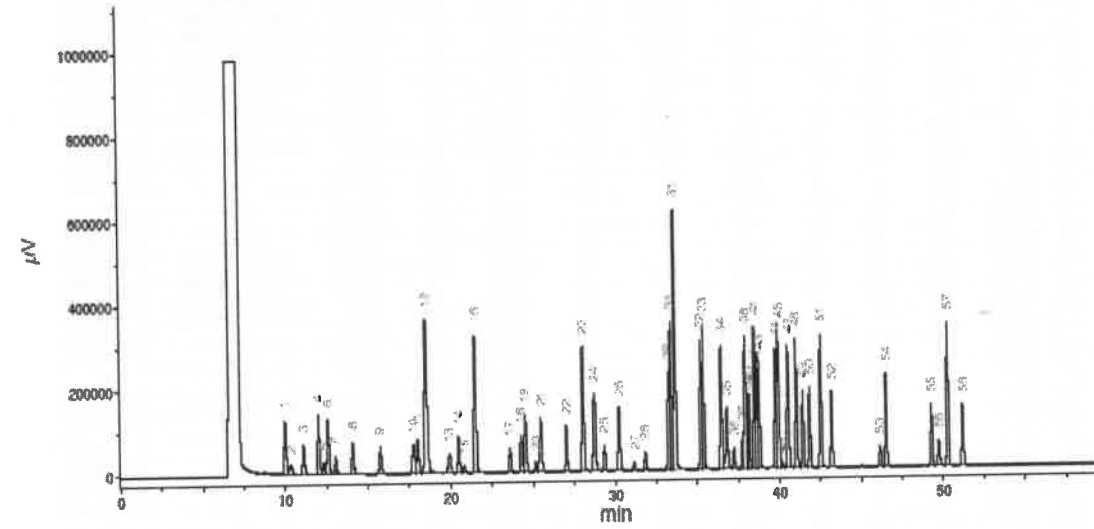
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	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)	(+/-) (µg/mL)	CAS#	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)	102395	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 7000mg/kg
3. Carbon disulfide	(0060)	MKCR8581	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	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000K	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)	06126PK	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)	5HBF6718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 240mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/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)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0481)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	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 (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	158-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-59-2	N/A	N/A
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	156-60-5	N/A	or-rat 1235mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	22.9	75-09-2	500 ppm	or-rat 820mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 908mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-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	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	N/A
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 4900mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	99-06-6	N/A	N/A
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1				

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	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
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, 2023

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	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number:
032922
Description:

95319
032922
Revised Additions Mix

Solvent(s): Lot#
Methanol EC592-US

11 components

032925

Refrigerate (4 °C)

Varied

6UTB

Expiration Date:

Recommended Storage:

Nominal Concentration (µg/mL):

NIST Test ID#:

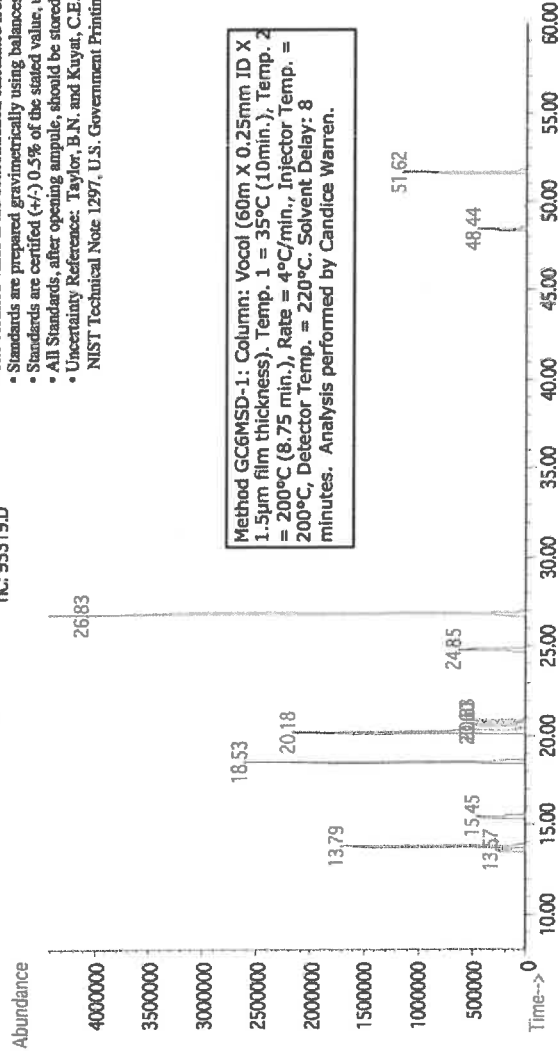
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

		032922
Formulated By:	Prashant Chauhan	DATE
		032922
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	LD50
										CAS#	OSHA PEL (TWA)
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H) orl-rat 2870mg/kg
4. Di-Isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	109-20-3	500 ppm (2100mg/m3/8H) orl-rat 12705mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin) orl-rat 8470mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin) orl-rat 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197LJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H) orl-rat 38mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A

TIC: 95319.D



Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

* 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

Address 44 Rossotto Dr.
Hamden CT, 06514

Date Prepared/Revised January 1, 2023

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:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
If swallowed
If in case of skin contact
If in case of eye contact
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
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
Suitable extinguishing media
Protective equipment for fire
Wear self contained breathing apparatus for fire fighting if necessary.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
head/sparks/open flame/hot surface. No smoking.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions
Environmental precautions
Clean up
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
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
Storage Conditions
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.
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
TWA 200 ppm
Skin notation
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

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 chemicals or 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.

Section XVI. Misc. 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 XV. REGULATORY INFORMATION

DOT (US) UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol
ATA UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

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 XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Solubility in Water			
COMPLETE			
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79



CERTIFIED WEIGHT REPORT

Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix

Solvent(s): Lot#
Methanol EC592-US

11 components

032925

Refrigerate (4 °C)

Varied

6UTB

Expiration Date:

Recommended Storage:

Nominal Concentration (µg/mL):

NIST Test ID#:

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty

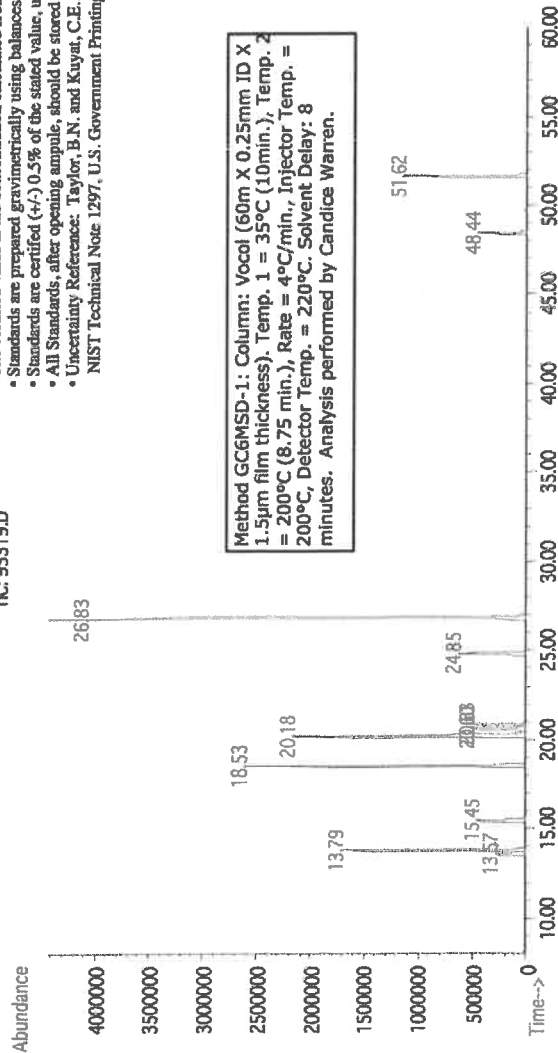
0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	DATE	032922
Reviewed By:	Pedro L. Rentas	DATE	032922

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Expanded Uncertainty	Actual Weight (g)	Actual Conc (µg/mL)	Actual Uncertainty	Expanded Uncertainty	SDS Information
										(Solvent Safety Info. On Attached pg.)
										OSHA PEL (TWA)
										LD50

1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	ori-rat 2870mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-Isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	109-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4870mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197LJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	ori-rat 38mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	ori-rat 6408mg/kg

TIC: 95319.D



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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
Address 44 Rossotto Dr.
Hamden CT, 06514
Date Prepared/Revised
Emergency Telephone USA & CANADA 1-800-536-5053
Emergency Telephone International 1-352-323-3500
January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	  	Signal Word: DANGER
Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water		
H301, 311, 331 H351 P280 P305,351,338		
Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water		

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

Section III - Composition

Section IV. FIRST AID MEASURES

General advice
If inhaled
If in case of skin contact
If 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
Suitable extinguishing media
Protective equipment for fire
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.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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
TWA 200 ppm
Skin notation
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

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 chemicals or 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.

Section XVI. Misc. 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 XV. REGULATORY INFORMATION

DOT (US) UN number: 1200 Class: 3 Packing group: II
Proper shipping name: Methanol
ATA UN number: 1200 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 6400 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 XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

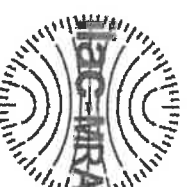
Solubility in Water			
COMPLETE			
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 30201 Lot No.: A0168982

Description: 524 Internal Std / Surrogate Mix

524 Internal Std/Surrogate Mix 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: February 29, 2028 Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Fluorobenzene CAS # 462-06-6 Purity 99%	2,008.0 µg/mL	+/- 11.7841 +/- 112.5980 +/- 115.2321	µg/mL µg/mL µg/mL Gravimetric Unstressed Stressed
2	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 Purity 99%	2,010.0 µg/mL	+/- 11.7958 +/- 112.7101 +/- 115.3469	µg/mL µg/mL µg/mL Gravimetric Unstressed Stressed
3	1,2-Dichlorobenzene-d4 CAS # 2199-69-1 Purity 99%	2,015.5 µg/mL	+/- 11.8281 +/- 113.0185 +/- 115.6625	µg/mL µg/mL µg/mL Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

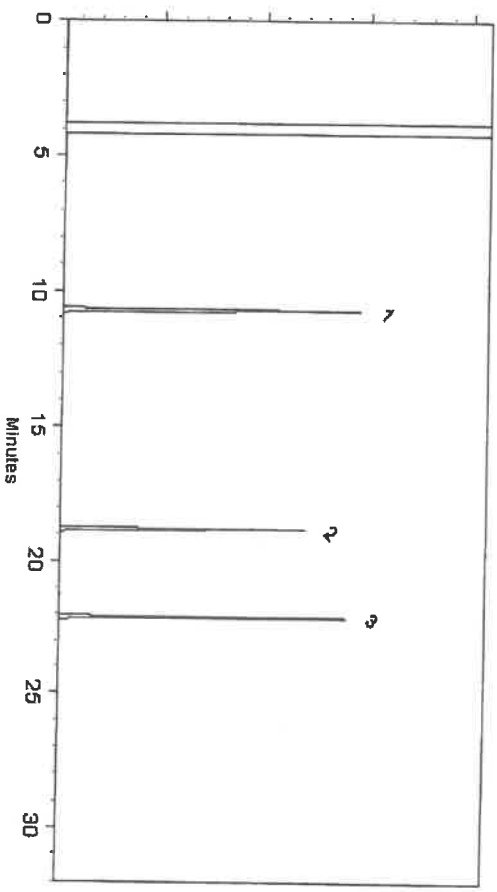
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 11-Feb-2021

Balance: 1128360905

Alex Shilov
Alex Shilov - Operations Tech I

Date Passed: 12-Feb-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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/IECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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CERTIFIED REFERENCE MATERIAL

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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. : 30470 **Lot No.:** A0181905
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 : February 28, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)												
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	µg/mL	Stressed												

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

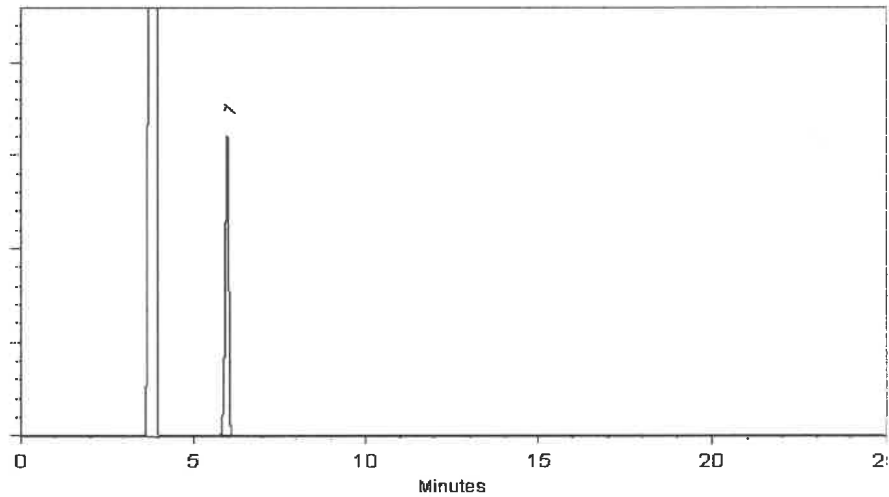
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline
John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 Balance: B442140311

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 21-Feb-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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

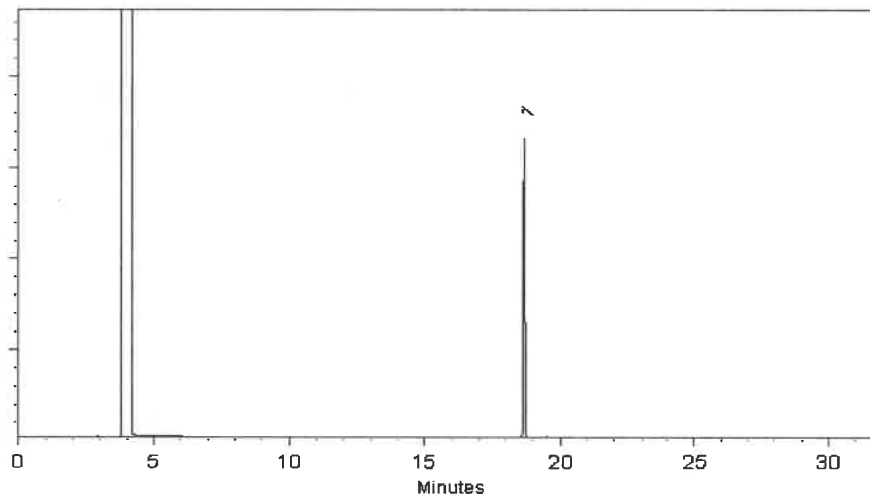
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

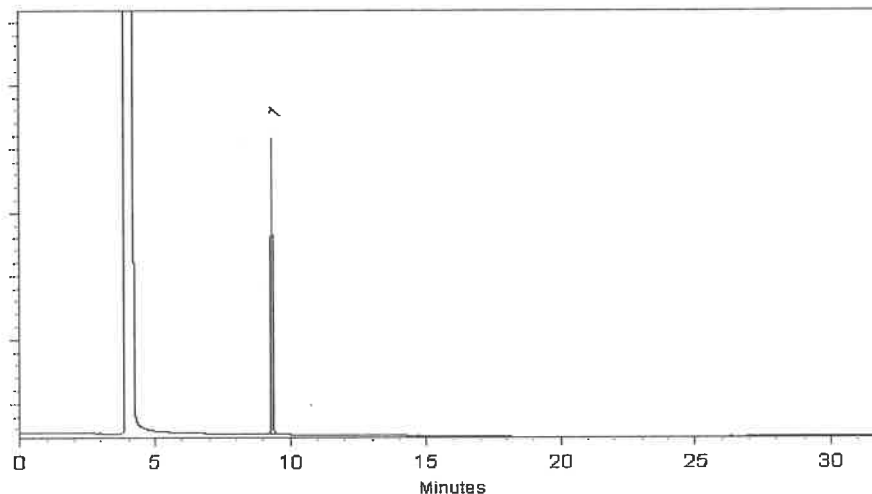
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 30042 **Lot No.:** A0194279

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 : October 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	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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:

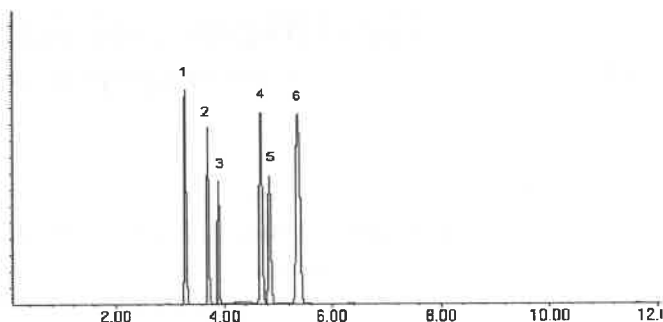
MSD

Split Vent:

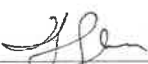
Split ratio 10:1

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 Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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.:** A0194279

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 : October 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	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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:

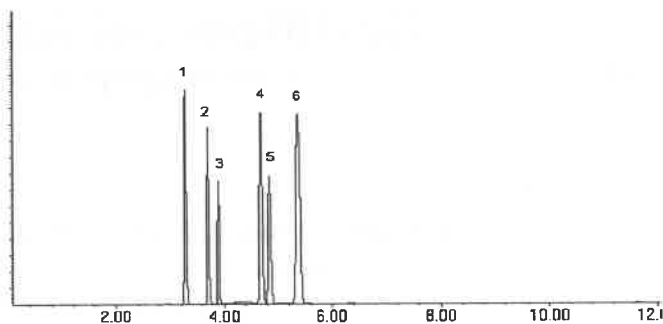
MSD

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 Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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. : 30042 **Lot No.:** A0194279

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 : October 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	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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:

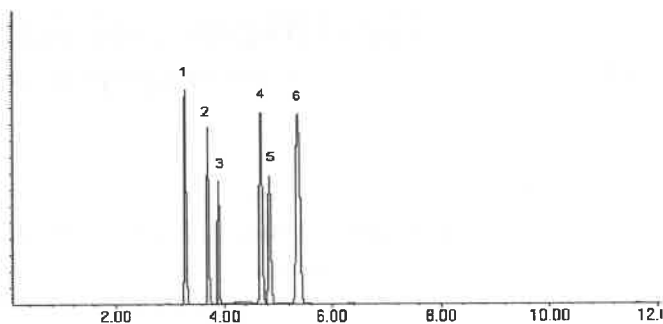
MSD

Split Vent:

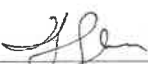
Split ratio 10:1

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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- 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:

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Handling Notes:

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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. : 564323 **Lot No.:** A0199211

Description : Custom Oxygenates Standard

Custom Oxygenates Standard 2,000-10,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2028 **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	101619K21F-1	99%	10,093.2 µg/mL	+/- 125.6116
2	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	2,011.0 µg/mL	+/- 25.0950
3	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	2,009.8 µg/mL	+/- 25.0800
4	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	2,009.2 µg/mL	+/- 25.0726
5	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	2,010.4 µg/mL	+/- 25.0878

* 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:

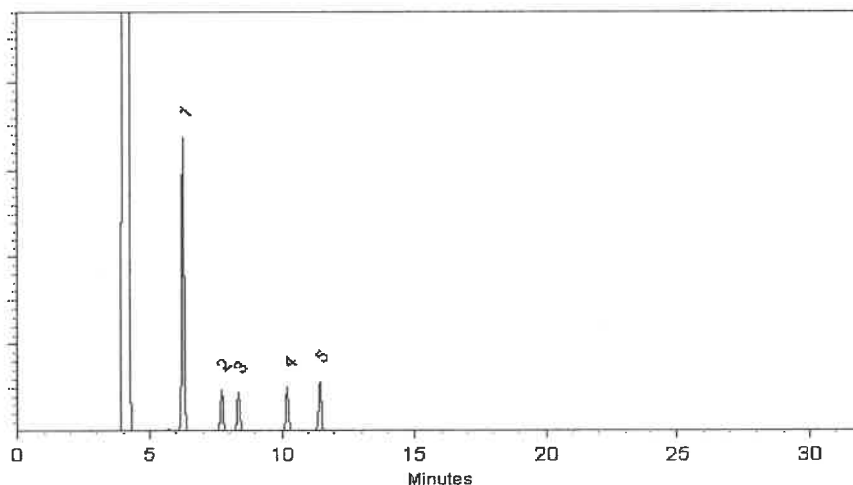
FID

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.


Bryan Snyder - Operations Tech I

Date Mixed: 22-Jun-2023

Balance Serial # 1128342314


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** A0200785

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 : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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:

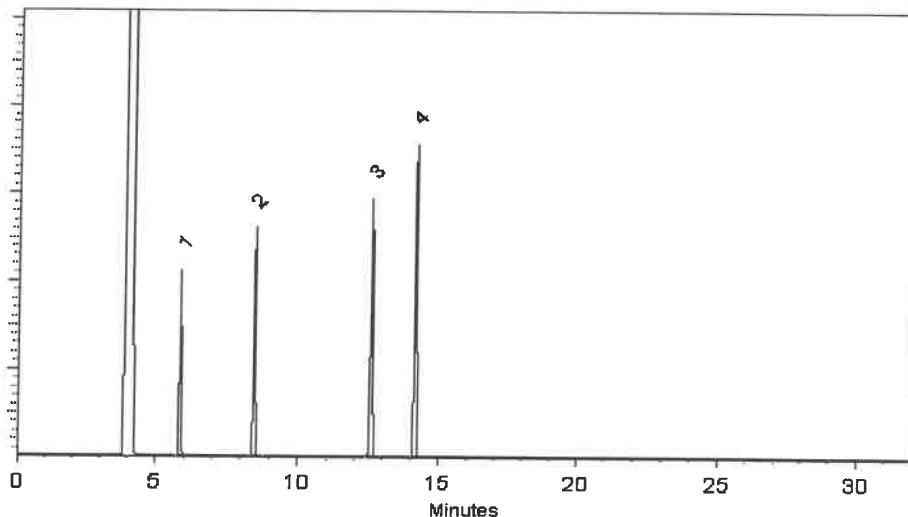
FID

Split Vent:

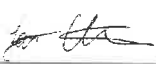
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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Catalog No. : 30006 **Lot No.:** A0200785

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 : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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:

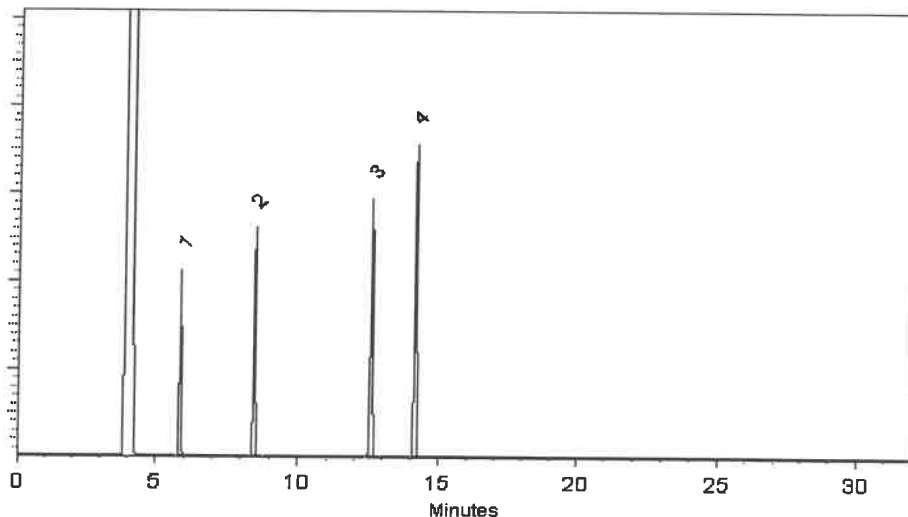
FID

Split Vent:

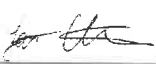
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Manufacturing Notes:

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Handling Notes:

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Catalog No. : 30006 **Lot No.:** A0200785

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 : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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:

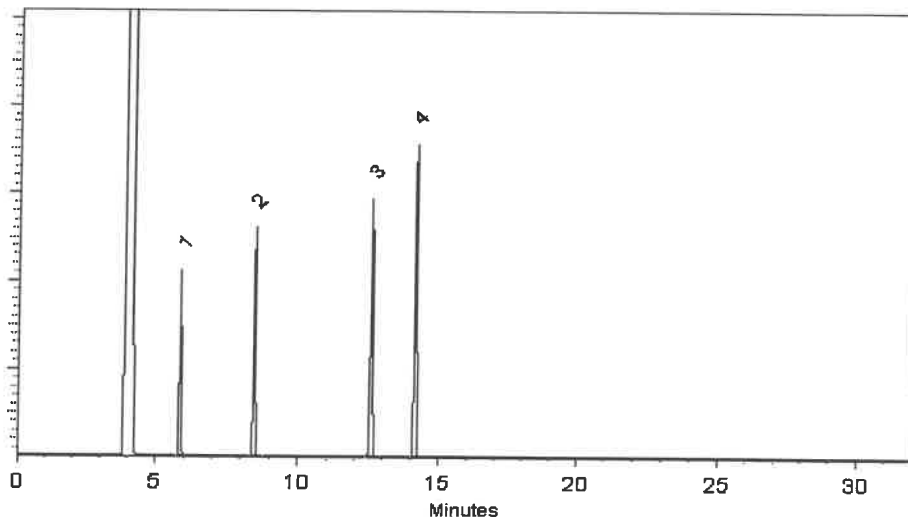
FID

Split Vent:

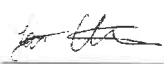
40 ml/min

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.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 30601 **Lot No.:** A0204639

Description : Drinking Water VOA MegaMix™, 524.2 Rev 4.1
Drinking Water VOA Mega Mix 524.2 Rev 4.1, 2000µg/mL, P&T
Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diethyl ether (ethyl ether)	60-29-7	SHBQ1495	99%	2,016.9 µg/mL	+/- 70.1908
2	1,1-dichloroethene	75-35-4	SHBG8609V	99%	2,009.6 µg/mL	+/- 69.9229
3	Iodomethane (methyl iodide)	74-88-4	MKCN8012	99%	2,016.5 µg/mL	+/- 70.1787
4	Allyl chloride (3-chloropropene)	107-05-1	RD221118RSR	99%	2,017.0 µg/mL	+/- 69.7168
5	Methylene chloride (dichloromethane)	75-09-2	231383	99%	2,013.2 µg/mL	+/- 70.0499
6	Carbon disulfide	75-15-0	N28F701	99%	2,017.0 µg/mL	+/- 70.1961
7	Acrylonitrile	107-13-1	102466R02E	99%	2,017.1 µg/mL	+/- 70.1995
8	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBP0179	99%	2,017.0 µg/mL	+/- 69.7168
9	trans-1,2-Dichloroethene	156-60-5	MKCP9516	99%	2,011.9 µg/mL	+/- 70.0038
10	1,1-Dichloroethane	75-34-3	852900	99%	2,010.5 µg/mL	+/- 69.9560
11	Propionitrile	107-12-0	BCCH7430	99%	2,017.0 µg/mL	+/- 70.1943
12	2,2-Dichloropropane	594-20-7	RD230426	99%	2,013.2 µg/mL	+/- 70.0652
13	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	2,014.0 µg/mL	+/- 70.0903
14	Methacrylonitrile	126-98-7	1012014	99%	2,015.7 µg/mL	+/- 70.1491
15	Methyl acrylate	96-33-3	SHBG6616V	99%	2,019.0 µg/mL	+/- 70.2639
16	chloroform	67-66-3	SHBN8469	99%	2,009.7 µg/mL	+/- 69.9273

17	Bromochloromethane	74-97-5	230810JLM	99%	2,016.0	µg/mL	+/- 70.1613
18	Tetrahydrofuran	109-99-9	SHBQ0910	99%	2,019.6	µg/mL	+/- 70.2865
19	1,1,1-trichloroethane	71-55-6	RD230728RSR	99%	2,011.1	µg/mL	+/- 69.9769
20	1-Chlorobutane (Butyl chloride)	109-69-3	SHBC2651V	99%	2,015.0	µg/mL	+/- 69.6476
21	1,1-Dichloropropene	563-58-6	230825JLM	99%	2,018.9	µg/mL	+/- 70.2629
22	carbon tetrachloride	56-23-5	SHBP4875	99%	2,011.5	µg/mL	+/- 69.9890
23	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	2,008.7	µg/mL	+/- 69.8916
24	Benzene	71-43-2	MKCS3357	99%	2,017.4	µg/mL	+/- 70.2100
25	Trichloroethene	79-01-6	SHBN3720	99%	2,008.3	µg/mL	+/- 69.8786
26	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	2,012.1	µg/mL	+/- 70.0117
27	Methyl methacrylate	80-62-6	MKCQ2756	99%	2,017.7	µg/mL	+/- 70.2204
28	Chloroacetonitrile	107-14-2	MKBG6249V	99%	2,006.0	µg/mL	+/- 69.3366
29	bromodichloromethane	75-27-4	MKCF8470	99%	2,012.6	µg/mL	+/- 70.0273
30	Dibromomethane	74-95-3	10233302	99%	2,014.7	µg/mL	+/- 70.1153
31	2-Nitropropane	79-46-9	BCCB9352	97%	2,015.9	µg/mL	+/- 70.1562
32	cis-1,3-Dichloropropene	10061-01-5	RD230406RSR	99%	2,005.0	µg/mL	+/- 69.7655
33	Toluene	108-88-3	MKCS9989	99%	2,019.0	µg/mL	+/- 70.2643
34	Ethyl methacrylate	97-63-2	MKCN6206	97%	2,015.4	µg/mL	+/- 70.1393
35	trans-1,3-Dichloropropene	10061-02-6	RD230727RSR	99%	2,011.3	µg/mL	+/- 69.9838
36	1,1,2-Trichloroethane	79-00-5	FGB01	99%	2,013.2	µg/mL	+/- 70.0491
37	1,3-Dichloropropane	142-28-9	BCCH5357	99%	2,017.1	µg/mL	+/- 70.2002
38	Tetrachloroethene	127-18-4	SHBQ0051	99%	2,011.5	µg/mL	+/- 69.9908
39	dibromochloromethane	124-48-1	MKCQ4517	99%	2,006.6	µg/mL	+/- 69.8185
40	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	2,009.0	µg/mL	+/- 69.9176
41	Chlorobenzene	108-90-7	SHBN6640	99%	2,009.8	µg/mL	+/- 69.9299
42	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	2,013.8	µg/mL	+/- 70.0833
43	Ethylbenzene	100-41-4	094632L21G	99%	2,006.8	µg/mL	+/- 69.8411
44	m-Xylene	108-38-3	SHBN6673	99%	2,018.7	µg/mL	+/- 70.2559
45	p-Xylene	106-42-3	SHBP5191	99%	2,008.0	µg/mL	+/- 69.8828
46	o-Xylene	95-47-6	SHBN5105	99%	2,016.3	µg/mL	+/- 70.1724
47	Styrene	100-42-5	MKCQ3390	99%	2,014.8	µg/mL	+/- 70.1209
48	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	2,011.4	µg/mL	+/- 70.0026
49	bromoform	75-25-2	050494L04R	99%	2,009.6	µg/mL	+/- 69.9255
50	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	2,011.7	µg/mL	+/- 69.9986
51	1,2,3-Trichloropropane	96-18-4	Q91-34	98%	2,013.8	µg/mL	+/- 70.0841
52	trans-1,4-dichloro-2-butene	110-57-6	RP231113CTH	94%	2,017.2	µg/mL	+/- 69.7251

53	n-Propylbenzene	103-65-1	095067T18C	99%	2,018.4	µg/mL	+/- 70.2434
54	Bromobenzene	108-86-1	MKCQ7174	99%	2,016.9	µg/mL	+/- 70.1919
55	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	2,017.0	µg/mL	+/- 70.1961
56	2-Chlorotoluene	95-49-8	235783M23T	99%	2,017.8	µg/mL	+/- 70.2253
57	4-Chlorotoluene	106-43-4	BCCG9286	99%	2,014.1	µg/mL	+/- 70.0958
58	tert-Butylbenzene	98-06-6	STBJ1937	99%	2,005.2	µg/mL	+/- 69.7868
59	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	2,015.9	µg/mL	+/- 70.1571
60	Pentachloroethane	76-01-7	13550700	97%	2,012.8	µg/mL	+/- 69.5699
61	sec-Butylbenzene	135-98-8	MKCP2266	99%	2,011.0	µg/mL	+/- 69.9872
62	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	2,014.6	µg/mL	+/- 70.1111
63	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	2,003.2	µg/mL	+/- 69.7020
64	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	2,015.0	µg/mL	+/- 70.1108
65	n-Butylbenzene	104-51-8	09418JJ	99%	2,005.3	µg/mL	+/- 69.7882
66	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	2,009.0	µg/mL	+/- 69.9020
67	Hexachloroethane	67-72-1	QTORH	99%	2,016.0	µg/mL	+/- 69.6822
68	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	2,005.1	µg/mL	+/- 69.7821
69	Nitrobenzene	98-95-3	10224044	99%	2,017.9	µg/mL	+/- 70.2256
70	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	2,015.0	µg/mL	+/- 70.1251
71	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	2,001.7	µg/mL	+/- 69.6639
72	Naphthalene	91-20-3	STBL1057	99%	2,008.9	µg/mL	+/- 69.9149
73	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	2,012.3	µg/mL	+/- 70.0318

* 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 pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

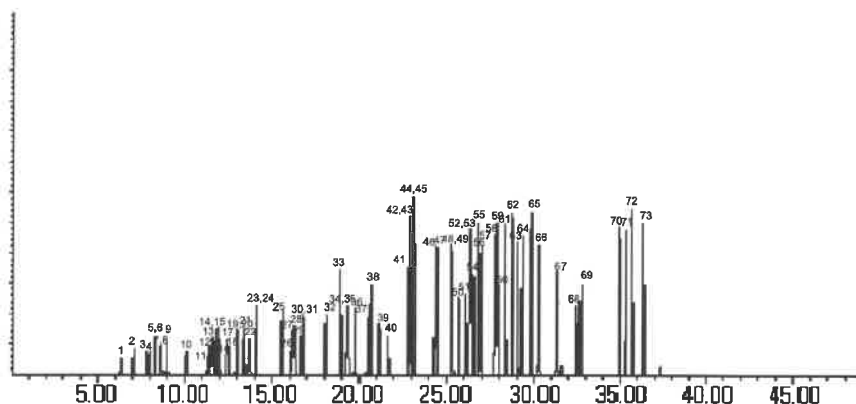
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
20.0 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.

John Friedline - Operations Technician I

Date Mixed: 20-Nov-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 29-Nov-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic



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.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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:

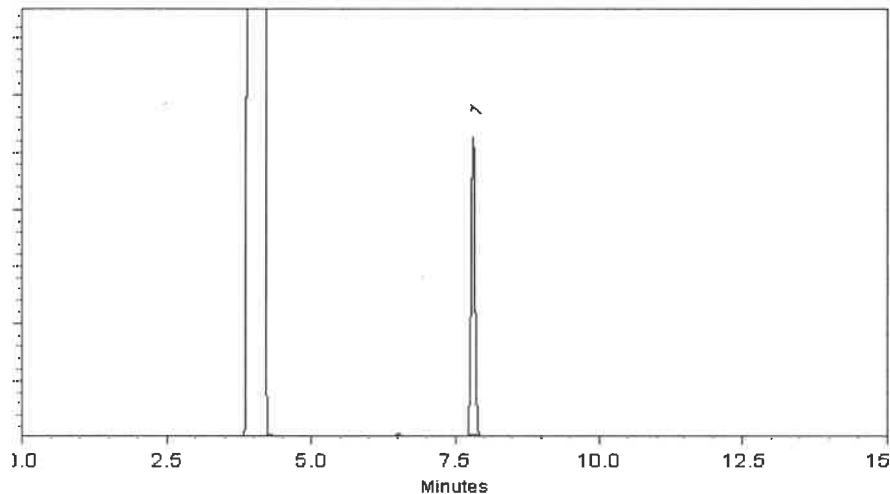
FID

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.

Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-2023)

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic



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.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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:

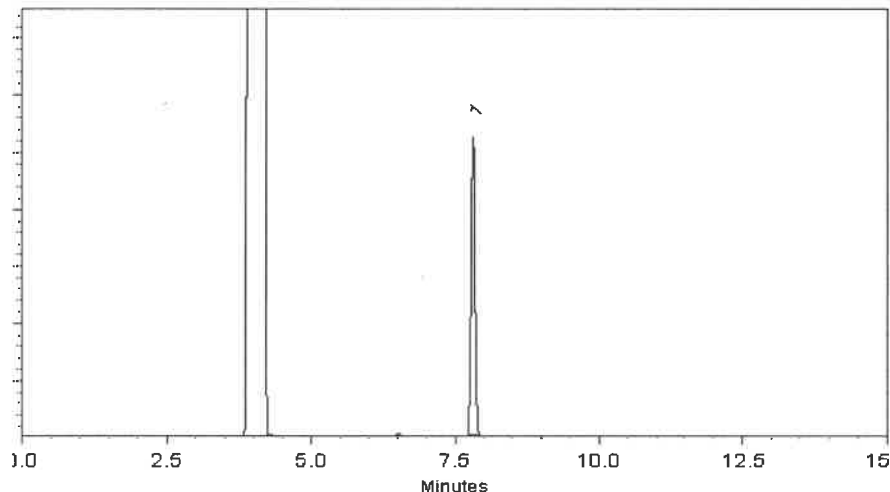
FID

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.


Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-2023)

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic



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. : 560065 **Lot No.:** A0205870
Description : Custom 524 Standard
Custom 524 Standard 2,000-10,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2024 **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	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00016133	99%	2,012.0 µg/mL	+/- 69.5439
2	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	10,029.0 µg/mL	+/- 346.6255
3	Acrylonitrile	107-13-1	102466R02E	99%	2,002.0 µg/mL	+/- 69.1983
4	Propionitrile	107-12-0	BCCH7430	99%	8,008.0 µg/mL	+/- 276.7932
5	Tetrahydrofuran	109-99-9	SHBQ8516	99%	2,016.0 µg/mL	+/- 69.6822
6	Cyclohexane	110-82-7	MKCS9749	99%	2,006.0 µg/mL	+/- 69.3366
7	Methylcyclohexane	108-87-2	SHBQ1289	99%	2,012.0 µg/mL	+/- 69.5439
8	Methyl methacrylate	80-62-6	MKCQ2756	99%	2,007.0 µg/mL	+/- 69.3711
9	trans-1,4-dichloro-2-butene	110-57-6	RP231113CTH	94%	2,012.5 µg/mL	+/- 69.5626
10	Nitrobenzene	98-95-3	10224044	99%	8,020.0 µg/mL	+/- 277.2080

* 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 pressure 30 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:

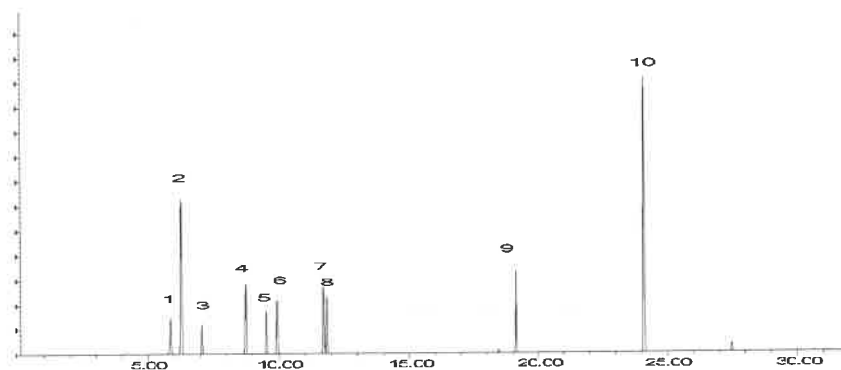
MSD

Split Vent:

25.0 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.

Russ Bookhamer - Operations Technician I

Date Mixed: 22-Dec-2023

Balance Serial # B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Dec-2023

RECEIVED
By Customer, Within 10 Business Days After Test Date

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:

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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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

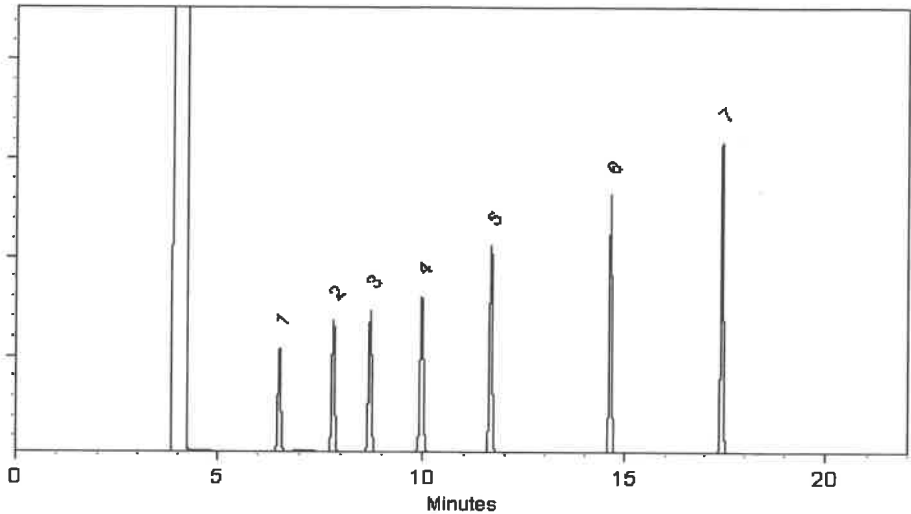
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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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:

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Handling Notes:

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chromatographic plus



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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
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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.)

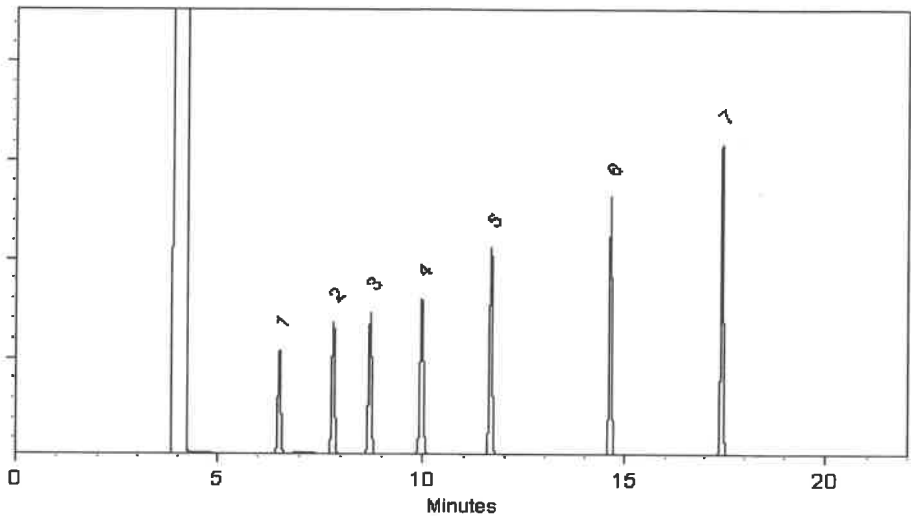
Inj. Temp:
200°C

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

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
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Vice President Global Quality

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Vice President Global Quality

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500 Series for Drinking Water
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Country of Origin: USA
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Vice President Global Quality

Methanol
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Company

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsforsale

Date	Order #
10/28/2024	326532



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
10/30/2024
10:00

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
241028-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-THM-WS	WS Trihalomethanes	WS1024	9098-23

Laboratory Certification

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