

Cover Page

Order ID : P5283

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P5283-01
P5283-02

Client Sample Number

TT-TB-20241213
TT-RW10A-IDWGW-20241213

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: 12/20/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P5283

Test Name: VOCMS Group4

A. Number of Samples and Date of Receipt:

2 Water samples were received on 12/13/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH and VOCMS Group4. This data package contains results for VOCMS Group4.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOCMS Group4 was based on method 624.1.

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.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The SDG P5283 is logged for VOCMS group4. Lab not certified for Hexachloroethane, Iodomethane, Methyl Methacrylate and tert-Butylbenzene compounds for 624.1 method.

"As per method 624.1, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead."



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

The not QT review data is reported in the Miscellaneous.

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 <35% 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 > 35% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5283

MATRIX: Water

METHOD: 624.1

		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. The Surrogate recoveries met the acceptable criteria.		✓	
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:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The SDG P5283 is logged for VOCMS group4. Lab not certified for Hexachloroethane, Iodomethane, Methyl Methacrylate and tert-Butylbenzene compounds for 624.1 method.

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

“As per method 624.1, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.”

The not QT review data is reported in the Miscellaneous.

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 <35% 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 > 35% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5283

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/20/2024

LAB CHRONICLE

OrderID:	P5283	OrderDate:	12/13/2024 1:07:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5283-01	TT-TB-20241213	Water	VOCMS Group4	624.1	12/13/24		12/16/24	12/13/24
P5283-02	TT-RW10A-IDWGW-2 0241213	Water	VOCMS Group4	624.1	12/13/24		12/16/24	12/13/24



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P5283
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:				0				
Total Voc :								
Total Concentration:								



QC SUMMARY

Surrogate Summary

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5283-01	TT-TB-20241213	1,2-Dichloroethane-d4	30	32.4	108	91	110
		Toluene-d8	30	27.9	93	91	112
		4-Bromofluorobenzene	30	24.8	82	63	112
P5283-02	TT-RW10A-IDWGW-20241213	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	28.7	96	91	112
		4-Bromofluorobenzene	30	24.3	81	63	112
VN1216WBL01	VN1216WBL01	1,2-Dichloroethane-d4	30	31.1	104	91	110
		Toluene-d8	30	29.2	97	91	112
		4-Bromofluorobenzene	30	25.2	84	63	112
VN1216WBS01	VN1216WBS01	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	29.7	99	91	112
		4-Bromofluorobenzene	30	29.7	99	63	112
VN1216WBSD0	VN1216WBSD01	1,2-Dichloroethane-d4	30	30.4	101	91	110
		Toluene-d8	30	29.0	97	91	112
		4-Bromofluorobenzene	30	30.0	100	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN085208.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1216WBS01	Dichlorodifluoromethane	20	20.1	ug/L	101			72	118	
	Chloromethane	20	19.6	ug/L	98			1	205	
	Vinyl Chloride	20	19.3	ug/L	97			5	195	
	Bromomethane	20	20.0	ug/L	100			15	185	
	Chloroethane	20	19.9	ug/L	100			40	160	
	Trichlorofluoromethane	20	19.9	ug/L	100			50	150	
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/L	95			64	127	
	1,1-Dichloroethene	20	19.7	ug/L	99			50	150	
	Acrolein	100	110	ug/L	110			60	140	
	Acrylonitrile	100	93.1	ug/L	93			60	140	
	Acetone	100	100	ug/L	100			41	148	
	Carbon disulfide	20	19.1	ug/L	96			76	107	
	Methyl tert-butyl Ether	20	19.9	ug/L	100			82	114	
	Methyl Acetate	20	19.0	ug/L	95			63	139	
	Methylene Chloride	20	18.5	ug/L	93			60	140	
	trans-1,2-Dichloroethene	20	19.5	ug/L	98			70	130	
	1,1-Dichloroethane	20	19.6	ug/L	98			70	130	
	Cyclohexane	20	19.3	ug/L	97			79	113	
	2-Butanone	100	92.6	ug/L	93			69	129	
	Carbon Tetrachloride	20	19.0	ug/L	95			70	130	
	2,2-Dichloropropane	20	18.7	ug/L	94			62	139	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			81	112	
	Chloroform	20	19.8	ug/L	99			70	135	
	1,1,1-Trichloroethane	20	18.6	ug/L	93			70	130	
	Methylcyclohexane	20	18.7	ug/L	94			79	112	
	1,1-Dichloropropene	20	18.4	ug/L	92			70	139	
	Benzene	20	18.4	ug/L	92			65	135	
	1,2-Dichloroethane	20	18.3	ug/L	92			70	130	
	Trichloroethene	20	18.5	ug/L	93			65	135	
	1,2-Dichloropropane	20	18.5	ug/L	93			35	165	
	Dibromomethane	20	18.7	ug/L	94			72	138	
	Bromodichloromethane	20	18.3	ug/L	92			65	135	
	4-Methyl-2-Pentanone	100	90.8	ug/L	91			73	131	
	Toluene	20	18.9	ug/L	95			70	130	
	t-1,3-Dichloropropene	20	18.5	ug/L	93			50	150	
	cis-1,3-Dichloropropene	20	18.5	ug/L	93			25	175	
	1,1,2-Trichloroethane	20	18.0	ug/L	90			70	130	
	1,3-Dichloropropane	20	18.2	ug/L	91			70	141	
	2-Hexanone	100	89.7	ug/L	90			72	128	
	Dibromochloromethane	20	18.7	ug/L	94			70	135	
	1,2-Dibromoethane	20	18.3	ug/L	92			86	114	
	Tetrachloroethene	20	19.1	ug/L	96			70	130	
	Chlorobenzene	20	18.7	ug/L	94			65	135	
	1,1,1,2-Tetrachloroethane	20	18.6	ug/L	93			63	138	
	Hexachloroethane	20	18.8	ug/L	94			70	130	
	Ethyl Benzene	20	18.7	ug/L	94			60	140	
	m/p-Xylenes	40	38.0	ug/L	95			87	111	
	o-Xylene	20	19.2	ug/L	96			87	111	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN085208.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1216WBS01	Styrene	20	18.7	ug/L	94			85	106	
	Bromoform	20	17.9	ug/L	90			70	130	
	Isopropylbenzene	20	19.3	ug/L	97			86	112	
	1,1,2,2-Tetrachloroethane	20	18.6	ug/L	93			60	140	
	1,2,3-Trichloropropane	20	15.3	ug/L	77			61	148	
	Bromobenzene	20	18.7	ug/L	94			59	142	
	N-propylbenzene	20	18.6	ug/L	93			67	139	
	2-Chlorotoluene	20	19.0	ug/L	95			66	138	
	1,3,5-Trimethylbenzene	20	19.3	ug/L	97			66	139	
	4-Chlorotoluene	20	18.9	ug/L	95			66	141	
	tert-Butylbenzene	20	18.9	ug/L	95			56	140	
	1,2,4-Trimethylbenzene	20	19.5	ug/L	98			63	142	
	Sec-butylbenzene	20	19.0	ug/L	95			63	144	
	p-Isopropyltoluene	20	19.3	ug/L	97			57	147	
	1,3-Dichlorobenzene	20	18.6	ug/L	93			70	130	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			65	135	
	n-Butylbenzene	20	19.1	ug/L	96			49	157	
	1,2-Dichlorobenzene	20	18.7	ug/L	94			65	135	
	1,2-Dibromo-3-Chloropropane	20	18.1	ug/L	91			69	122	
	1,2,4-Trichlorobenzene	20	19.5	ug/L	98			61	118	
	Hexachlorobutadiene	20	20.3	ug/L	102			16	187	
	Naphthalene	20	18.9	ug/L	95			45	152	
	1,2,3-Trichlorobenzene	20	19.5	ug/L	98			38	159	
	Methyl iodide	20	17.6	ug/L	88			70	130	
	Methyl methacrylate	20	18.1	ug/L	91			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN085209.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1216WBSD01	Dichlorodifluoromethane	20	20.1	ug/L	101	0		72	118	20
	Chloromethane	20	19.1	ug/L	96	2		1	205	20
	Vinyl Chloride	20	20.9	ug/L	104	7		5	195	20
	Bromomethane	20	20.0	ug/L	100	0		15	185	20
	Chloroethane	20	21.2	ug/L	106	6		40	160	20
	Trichlorofluoromethane	20	20.6	ug/L	103	3		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100	5		64	127	20
	1,1-Dichloroethene	20	19.9	ug/L	100	1		50	150	20
	Acrolein	100	110	ug/L	110	0		60	140	20
	Acrylonitrile	100	100	ug/L	100	7		60	140	20
	Acetone	100	120	ug/L	120	18		41	148	20
	Carbon disulfide	20	19.4	ug/L	97	1		76	107	20
	Methyl tert-butyl Ether	20	21.4	ug/L	107	7		82	114	20
	Methyl Acetate	20	21.8	ug/L	109	14		63	139	20
	Methylene Chloride	20	20.0	ug/L	100	7		60	140	20
	trans-1,2-Dichloroethene	20	19.4	ug/L	97	1		70	130	20
	1,1-Dichloroethane	20	20.3	ug/L	102	4		70	130	20
	Cyclohexane	20	19.6	ug/L	98	1		79	113	20
	2-Butanone	100	110	ug/L	110	17		69	129	20
	Carbon Tetrachloride	20	19.4	ug/L	97	2		70	130	20
	2,2-Dichloropropane	20	19.7	ug/L	99	5		62	139	20
	cis-1,2-Dichloroethene	20	20.6	ug/L	103	5		81	112	20
	Chloroform	20	20.2	ug/L	101	2		70	135	20
	1,1,1-Trichloroethane	20	19.3	ug/L	97	4		70	130	20
	Methylcyclohexane	20	19.0	ug/L	95	1		79	112	20
	1,1-Dichloropropene	20	19.7	ug/L	99	7		70	139	20
	Benzene	20	19.5	ug/L	98	6		65	135	20
	1,2-Dichloroethane	20	19.6	ug/L	98	6		70	130	20
	Trichloroethene	20	19.5	ug/L	98	5		65	135	20
	1,2-Dichloropropane	20	19.2	ug/L	96	3		35	165	20
	Dibromomethane	20	20.0	ug/L	100	6		72	138	20
	Bromodichloromethane	20	20.0	ug/L	100	8		65	135	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	9		73	131	20
	Toluene	20	19.5	ug/L	98	3		70	130	20
	t-1,3-Dichloropropene	20	19.9	ug/L	100	7		50	150	20
	cis-1,3-Dichloropropene	20	19.8	ug/L	99	6		25	175	20
	1,1,2-Trichloroethane	20	19.7	ug/L	99	10		70	130	20
	1,3-Dichloropropane	20	20.2	ug/L	101	10		70	141	20
	2-Hexanone	100	100	ug/L	100	11		72	128	20
	Dibromochloromethane	20	19.8	ug/L	99	5		70	135	20
	1,2-Dibromoethane	20	19.7	ug/L	99	7		86	114	20
	Tetrachloroethene	20	19.8	ug/L	99	3		70	130	20
	Chlorobenzene	20	19.7	ug/L	99	5		65	135	20
	1,1,1,2-Tetrachloroethane	20	20.6	ug/L	103	10		63	138	20
	Hexachloroethane	20	19.6	ug/L	98	4		70	130	20
	Ethyl Benzene	20	19.6	ug/L	98	4		60	140	20
	m/p-Xylenes	40	39.6	ug/L	99	4		87	111	20
	o-Xylene	20	20.3	ug/L	102	6		87	111	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN085209.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1216WBSD01	Styrene	20	20.1	ug/L	101	7		85	106	20
	Bromoform	20	19.8	ug/L	99	10		70	130	20
	Isopropylbenzene	20	19.9	ug/L	100	3		86	112	20
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102	9		60	140	20
	1,2,3-Trichloropropane	20	16.7	ug/L	84	9		61	148	20
	Bromobenzene	20	20.1	ug/L	101	7		59	142	20
	N-propylbenzene	20	19.2	ug/L	96	3		67	139	20
	2-Chlorotoluene	20	19.9	ug/L	100	5		66	138	20
	1,3,5-Trimethylbenzene	20	19.6	ug/L	98	1		66	139	20
	4-Chlorotoluene	20	19.5	ug/L	98	3		66	141	20
	tert-Butylbenzene	20	19.8	ug/L	99	4		56	140	20
	1,2,4-Trimethylbenzene	20	20.1	ug/L	101	3		63	142	20
	Sec-butylbenzene	20	19.8	ug/L	99	4		63	144	20
	p-Isopropyltoluene	20	19.8	ug/L	99	2		57	147	20
	1,3-Dichlorobenzene	20	19.6	ug/L	98	5		70	130	20
	1,4-Dichlorobenzene	20	20.0	ug/L	100	5		65	135	20
	n-Butylbenzene	20	19.3	ug/L	97	1		49	157	20
	1,2-Dichlorobenzene	20	20.2	ug/L	101	7		65	135	20
	1,2-Dibromo-3-Chloropropane	20	21.6	ug/L	108	17		69	122	20
	1,2,4-Trichlorobenzene	20	20.6	ug/L	103	5		61	118	20
	Hexachlorobutadiene	20	20.6	ug/L	103	1		16	187	20
	Naphthalene	20	20.6	ug/L	103	8		45	152	20
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103	5		38	159	20
	Methyl iodide	20	18.3	ug/L	92	4		70	130	20
	Methyl methacrylate	20	19.9	ug/L	100	9		70	130	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1216WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5283

SAS No.: P5283 SDG NO.: P5283

Lab File ID: VN085210.D

Lab Sample ID: VN1216WBL01

Date Analyzed: 12/16/2024

Time Analyzed: 11:21

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1216WBS01	VN1216WBS01	VN085208.D	12/16/2024
VN1216WBSD01	VN1216WBSD01	VN085209.D	12/16/2024
TT-TB-20241213	P5283-01	VN085214.D	12/16/2024
TT-RW10A-IDWG-20241213	P5283-02	VN085215.D	12/16/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG NO.: P5283
Lab File ID: VN085116.D BFB Injection Date: 12/06/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:14
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	5.9 (7.6) 1
176	95.0 - 101.0% of mass 174	74.3 (95.4) 1
177	5.0 - 9.0% of mass 176	4.5 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VN085117.D	12/06/2024	10:02
VSTDIC020	VSTDIC020	VN085118.D	12/06/2024	10:26
VSTDIC050	VSTDIC050	VN085119.D	12/06/2024	10:49
VSTDIC100	VSTDIC100	VN085120.D	12/06/2024	11:13
VSTDIC150	VSTDIC150	VN085121.D	12/06/2024	11:37

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG NO.: P5283
Lab File ID: VN085206.D BFB Injection Date: 12/16/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:58
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
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	7.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	78.8
175	5.0 - 9.0% of mass 174	6.3 (8) 1
176	95.0 - 101.0% of mass 174	76.5 (97.1) 1
177	5.0 - 9.0% of mass 176	5.3 (6.9) 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
VSTDCCC020	VSTDCCC020	VN085207.D	12/16/2024	09:42
VN1216WBS01	VN1216WBS01	VN085208.D	12/16/2024	10:19
VN1216WBSD01	VN1216WBSD01	VN085209.D	12/16/2024	10:57
VN1216WBL01	VN1216WBL01	VN085210.D	12/16/2024	11:21
TT-TB-20241213	P5283-01	VN085214.D	12/16/2024	13:09
TT-RW10A-IDWGW-20241213	P5283-02	VN085215.D	12/16/2024	13:33
VSTDCCC020EC	VSTDCCC020	VN085216.D	12/16/2024	16:33

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG NO.: P5283
Lab File ID: VN085207.D Date Analyzed: 12/16/2024
Instrument ID: MSVOA_N Time Analyzed: 09:42
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	33412	7.81	185962	9.09	170233	11.87
UPPER LIMIT	66824	8.312	371924	9.594	340466	12.365
LOWER LIMIT	16706	7.312	92981	8.594	85116.5	11.365
EPA SAMPLE NO.						
TT-TB-20241213	24766	7.81	129916	9.10	118401	11.87
TT-RW10A-IDWGW-20241213	25309	7.81	122588	9.10	107111	11.87
VN1216WBL01	28325	7.82	149220	9.10	129681	11.87
VN1216WBS01	30825	7.81	169823	9.10	155663	11.87
VN1216WBSD01	29855	7.81	161867	9.10	148673	11.87

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

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

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



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/13/24	
Client Sample ID:	TT-TB-20241213		SDG No.:	P5283	
Lab Sample ID:	P5283-01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085214.D	1		12/16/24 13:09	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.00	ug/L
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/L
75-01-4	Vinyl Chloride	1.20	U	1.20	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	2.90	U	2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.00	ug/L
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
67-64-1	Acetone	4.90	U	4.90	25.0	ug/L
75-15-0	Carbon Disulfide	0.93	U	0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.83	U	0.83	5.00	ug/L
79-20-9	Methyl Acetate	1.20	U	1.20	5.00	ug/L
75-09-2	Methylene Chloride	1.20	U	1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/L
110-82-7	Cyclohexane	1.00	U	1.00	5.00	ug/L
78-93-3	2-Butanone	3.60	U	3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	1.10	U	1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
108-87-2	Methylcyclohexane	0.89	U	0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.75	U	0.75	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.77	U	0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.65	U	0.65	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	12/13/24	
Project:	CTO WE13			Date Received:	12/13/24	
Client Sample ID:	TT-TB-20241213			SDG No.:	P5283	
Lab Sample ID:	P5283-01			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085214.D	1		12/16/24 13:09	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.70	U	0.70	5.00	ug/L
75-27-4	Bromodichloromethane	0.81	U	0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	25.0	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.68	U	0.68	5.00	ug/L
591-78-6	2-Hexanone	3.90	U	3.90	25.0	ug/L
124-48-1	Dibromochloromethane	0.72	U	0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.78	U	0.78	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
108-90-7	Chlorobenzene	0.67	U	0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.91	U	0.91	5.00	ug/L
67-72-1	Hexachloroethane	0.91	U	0.91	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
100-42-5	Styrene	0.80	U	0.80	5.00	ug/L
75-25-2	Bromoform	1.00	U	1.00	5.00	ug/L
98-82-8	Isopropylbenzene	0.85	U	0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.70	U	1.70	5.00	ug/L
108-86-1	Bromobenzene	0.69	U	0.69	5.00	ug/L
103-65-1	n-propylbenzene	0.80	U	0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	0.81	U	0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.74	U	0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	0.82	U	0.82	5.00	ug/L
98-06-6	tert-butylbenzene	0.77	U	0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.83	U	0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	0.77	U	0.77	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/13/24	
Client Sample ID:	TT-TB-20241213		SDG No.:	P5283	
Lab Sample ID:	P5283-01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085214.D	1		12/16/24 13:09	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.82	U	0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
104-51-8	n-Butylbenzene	0.86	U	0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.10	U	1.10	5.00	ug/L
91-20-3	Naphthalene	1.40	U	1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.40	U	1.40	5.00	ug/L
74-88-4	Methyl Iodide	0.94	U	0.94	5.00	ug/L
80-62-6	Methyl methacrylate	1.00	U	1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	32.3		91 - 110	108%	SPK: 30
2037-26-5	Toluene-d8	27.9		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.7		63 - 112	82%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	24800	7.812			
540-36-3	1,4-Difluorobenzene	130000	9.1			
3114-55-4	Chlorobenzene-d5	118000	11.865			

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_N\Data\VN121624\
 Data File : VN085214.D
 Acq On : 16 Dec 2024 13:09
 Operator : JC\MD
 Sample : P5283-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20241213

Quant Time: Dec 17 02:00:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	24766	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	129916	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	118401	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	63566	32.347	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.833%
60) 4-Bromofluorobenzene	12.847	95	48481	24.747	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.500%
63) Toluene-d8	10.565	98	155109	27.928	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.100%

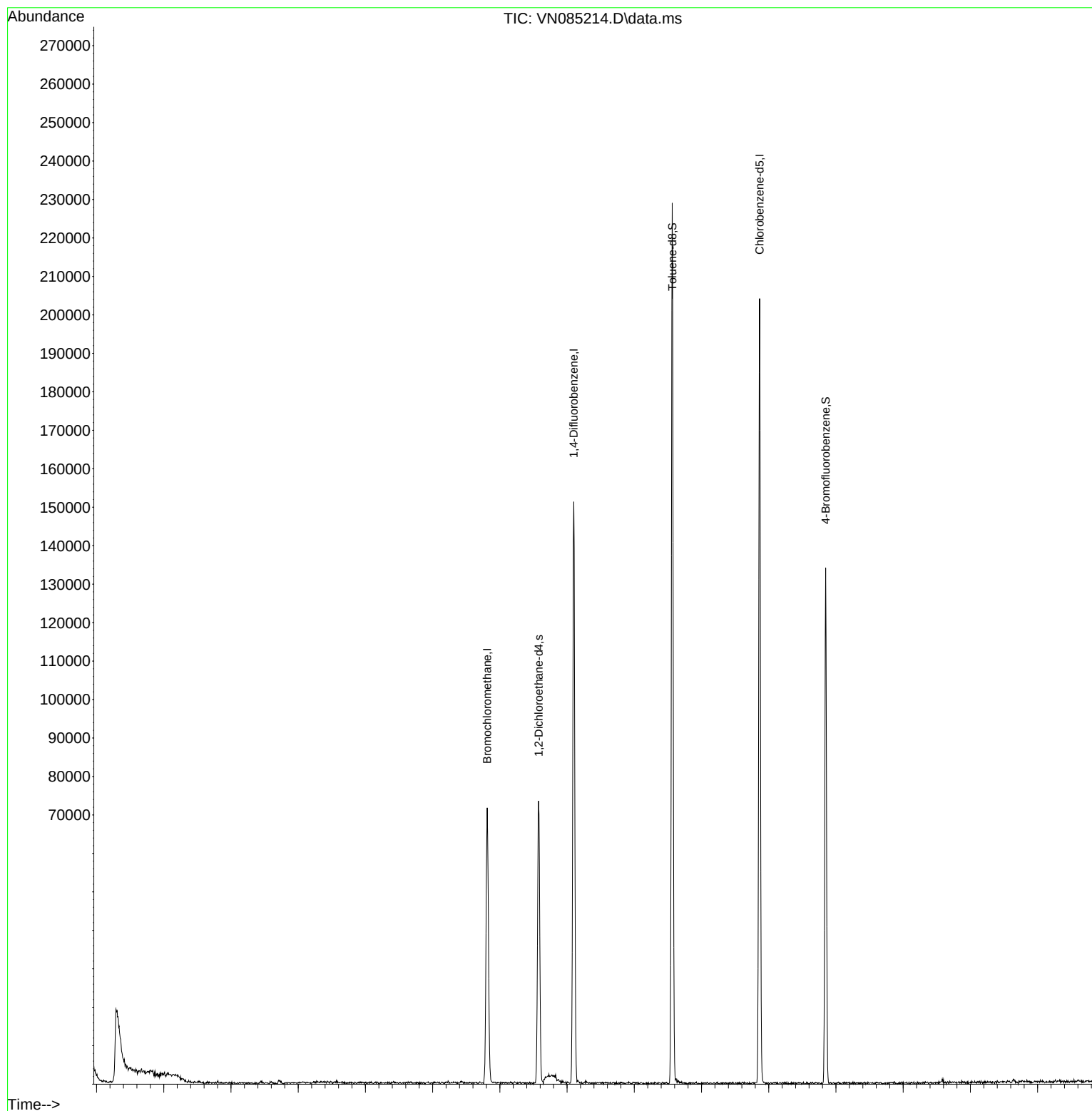
Target Compounds	Qvalue

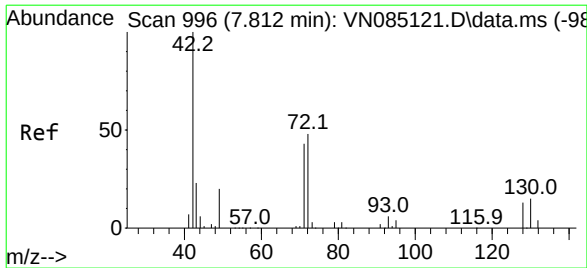
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
Data File : VN085214.D
Acq On : 16 Dec 2024 13:09
Operator : JC\MD
Sample : P5283-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20241213

Quant Time: Dec 17 02:00:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

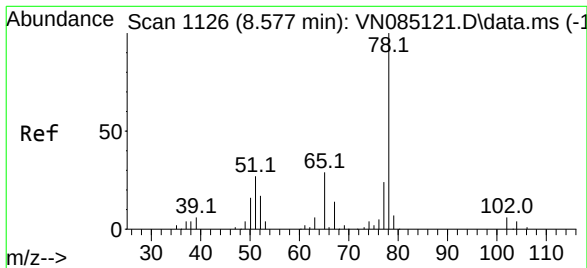
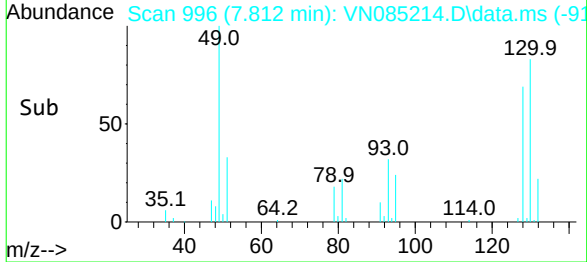
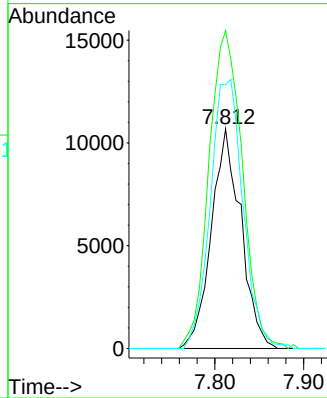
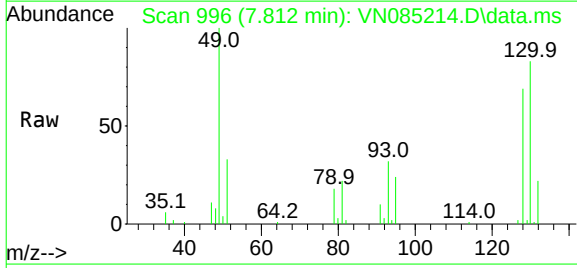




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN085214.D
Acq: 16 Dec 2024 13:09

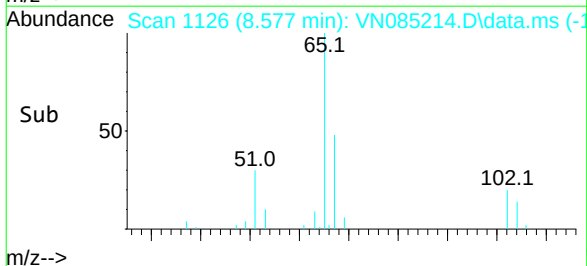
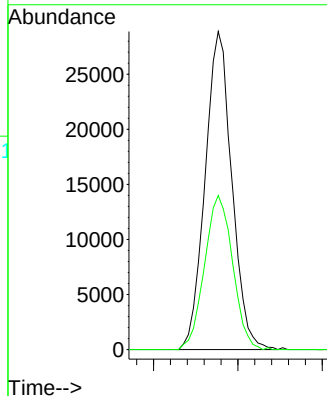
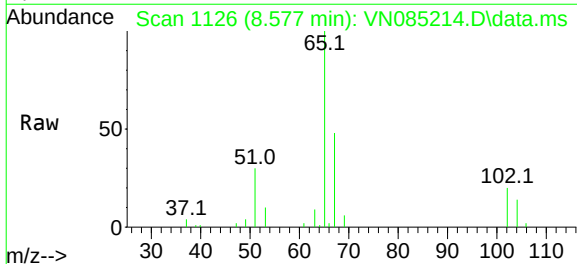
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20241213

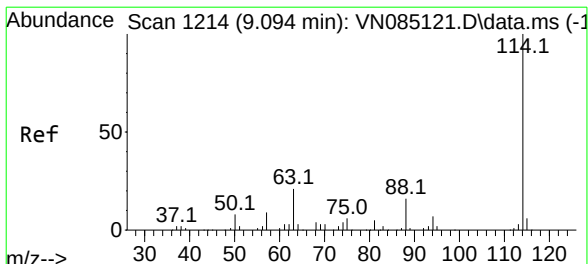
Tgt Ion	Ratio	Lower	Upper
128	100		
49	163.0	0.0	394.5
130	135.2	0.0	316.5



#27
1,2-Dichloroethane-d4
Concen: 32.347 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085214.D
Acq: 16 Dec 2024 13:09

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.8	39.9	59.9

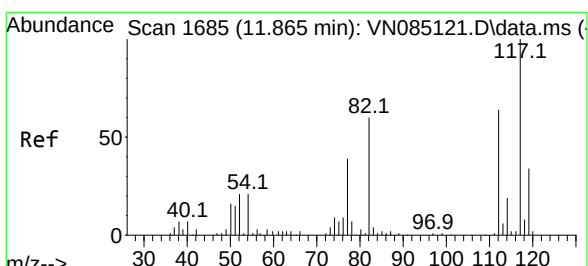
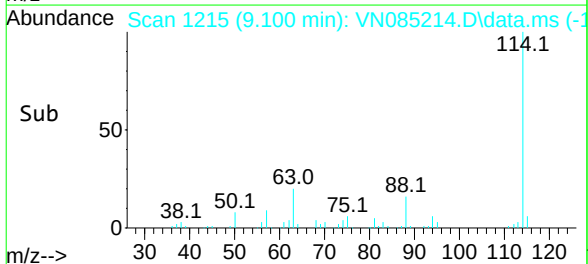
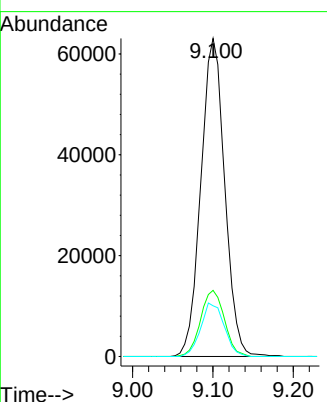
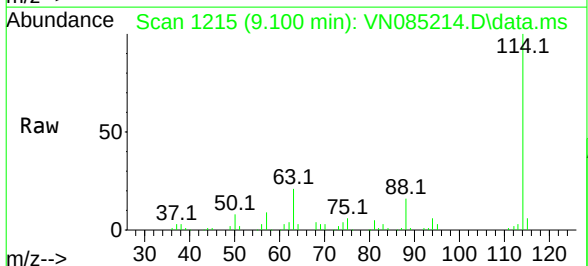




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1214
 Delta R.T. 0.000 min
 Lab File: VN085214.D
 Acq: 16 Dec 2024 13:09

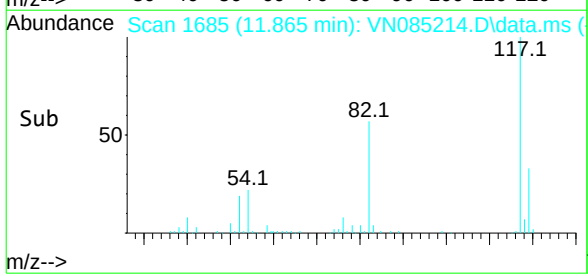
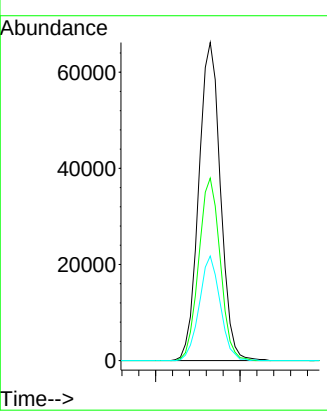
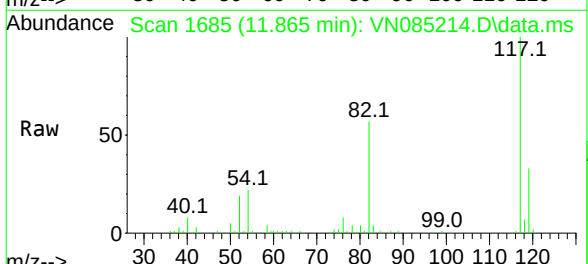
Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20241213

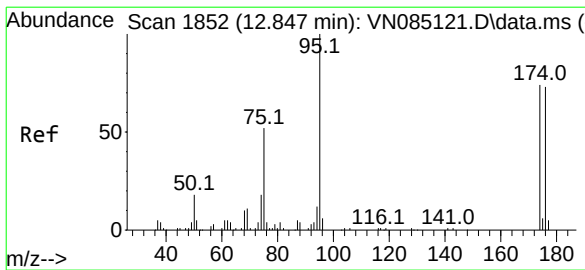
Tgt Ion:	114	Resp:	129916
Ion	Ratio	Lower	Upper
114	100		
63	20.8	16.2	24.2
88	16.6	12.5	18.7



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN085214.D
 Acq: 16 Dec 2024 13:09

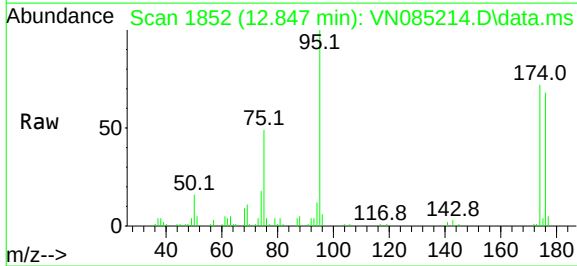
Tgt Ion:	117	Resp:	118401
Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.2	66.4
119	31.6	25.4	38.2



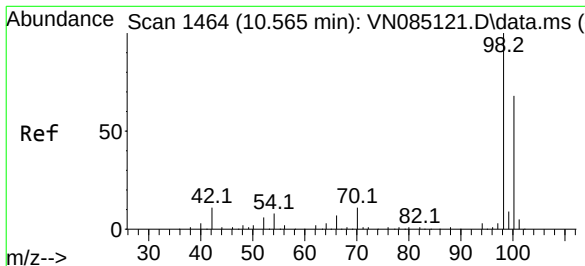
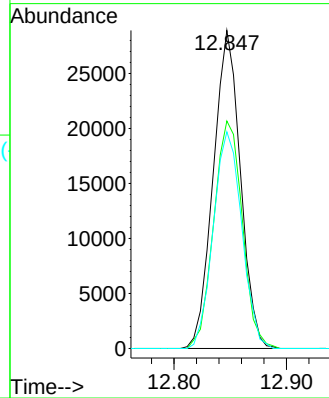
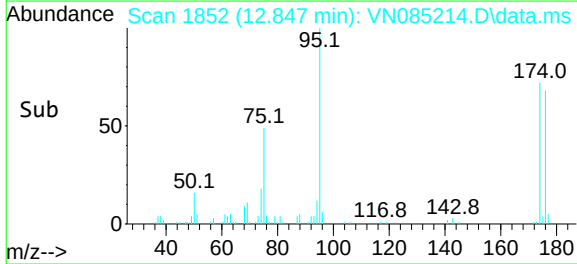


#60
4-Bromofluorobenzene
Concen: 24.747 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085214.D
Acq: 16 Dec 2024 13:09

Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20241213

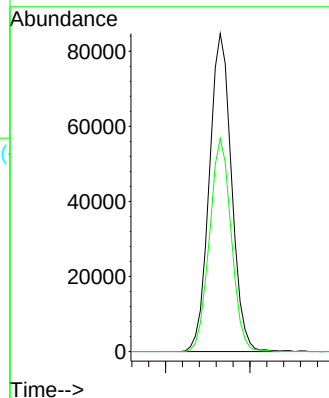
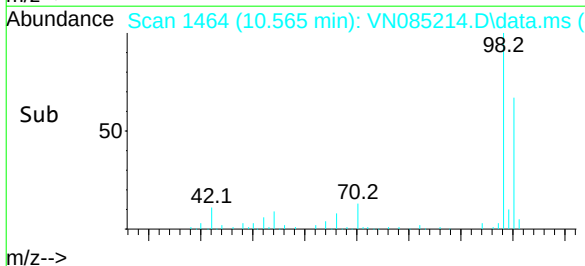
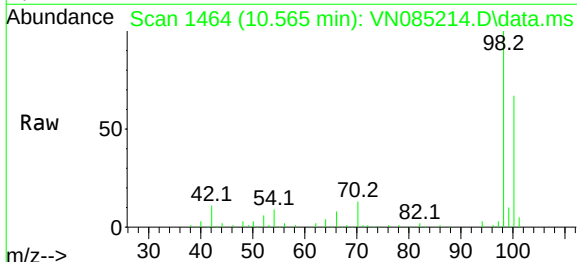


Tgt Ion: 95 Resp: 48481
Ion Ratio Lower Upper
95 100
174 75.2 60.3 90.5
176 71.4 57.4 86.0



#63
Toluene-d8
Concen: 27.928 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085214.D
Acq: 16 Dec 2024 13:09

Tgt Ion: 98 Resp: 155109
Ion Ratio Lower Upper
98 100
100 65.5 52.0 78.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/13/24	
Client Sample ID:	TT-RW10A-IDWGW-20241213		SDG No.:	P5283	
Lab Sample ID:	P5283-02		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085215.D	1		12/16/24 13:33	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.00	ug/L
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/L
75-01-4	Vinyl Chloride	1.20	U	1.20	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	2.90	U	2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.00	ug/L
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
67-64-1	Acetone	4.90	U	4.90	25.0	ug/L
75-15-0	Carbon Disulfide	0.93	U	0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.83	U	0.83	5.00	ug/L
79-20-9	Methyl Acetate	1.20	U	1.20	5.00	ug/L
75-09-2	Methylene Chloride	1.20	U	1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/L
110-82-7	Cyclohexane	1.00	U	1.00	5.00	ug/L
78-93-3	2-Butanone	3.60	U	3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	1.10	U	1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
108-87-2	Methylcyclohexane	0.89	U	0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.75	U	0.75	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.77	U	0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.65	U	0.65	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-RW10A-IDWGW-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085215.D	1		12/16/24 13:33	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.70	U	0.70	5.00	ug/L
75-27-4	Bromodichloromethane	0.81	U	0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	25.0	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.68	U	0.68	5.00	ug/L
591-78-6	2-Hexanone	3.90	U	3.90	25.0	ug/L
124-48-1	Dibromochloromethane	0.72	U	0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.78	U	0.78	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
108-90-7	Chlorobenzene	0.67	U	0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.91	U	0.91	5.00	ug/L
67-72-1	Hexachloroethane	0.91	U	0.91	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
100-42-5	Styrene	0.80	U	0.80	5.00	ug/L
75-25-2	Bromoform	1.00	U	1.00	5.00	ug/L
98-82-8	Isopropylbenzene	0.85	U	0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.70	U	1.70	5.00	ug/L
108-86-1	Bromobenzene	0.69	U	0.69	5.00	ug/L
103-65-1	n-propylbenzene	0.80	U	0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	0.81	U	0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.74	U	0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	0.82	U	0.82	5.00	ug/L
98-06-6	tert-butylbenzene	0.77	U	0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.83	U	0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	0.77	U	0.77	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/13/24	
Client Sample ID:	TT-RW10A-IDWGW-20241213		SDG No.:	P5283	
Lab Sample ID:	P5283-02		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085215.D	1		12/16/24 13:33	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.82	U	0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
104-51-8	n-Butylbenzene	0.86	U	0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.10	U	1.10	5.00	ug/L
91-20-3	Naphthalene	1.40	U	1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.40	U	1.40	5.00	ug/L
74-88-4	Methyl Iodide	0.94	U	0.94	5.00	ug/L
80-62-6	Methyl methacrylate	1.00	U	1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.0		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	28.7		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.3		63 - 112	81%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	25300	7.812			
540-36-3	1,4-Difluorobenzene	123000	9.1			
3114-55-4	Chlorobenzene-d5	107000	11.865			

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_N\Data\VN121624\
 Data File : VN085215.D
 Acq On : 16 Dec 2024 13:33
 Operator : JC\MD
 Sample : P5283-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-RW10A-IDWGW-20241213

Quant Time: Dec 17 02:01:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	25309	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	122588	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	107111	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	60177	29.966	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.900%
60) 4-Bromofluorobenzene	12.847	95	43131	24.337	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.133%
63) Toluene-d8	10.565	98	144249	28.710	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.700%

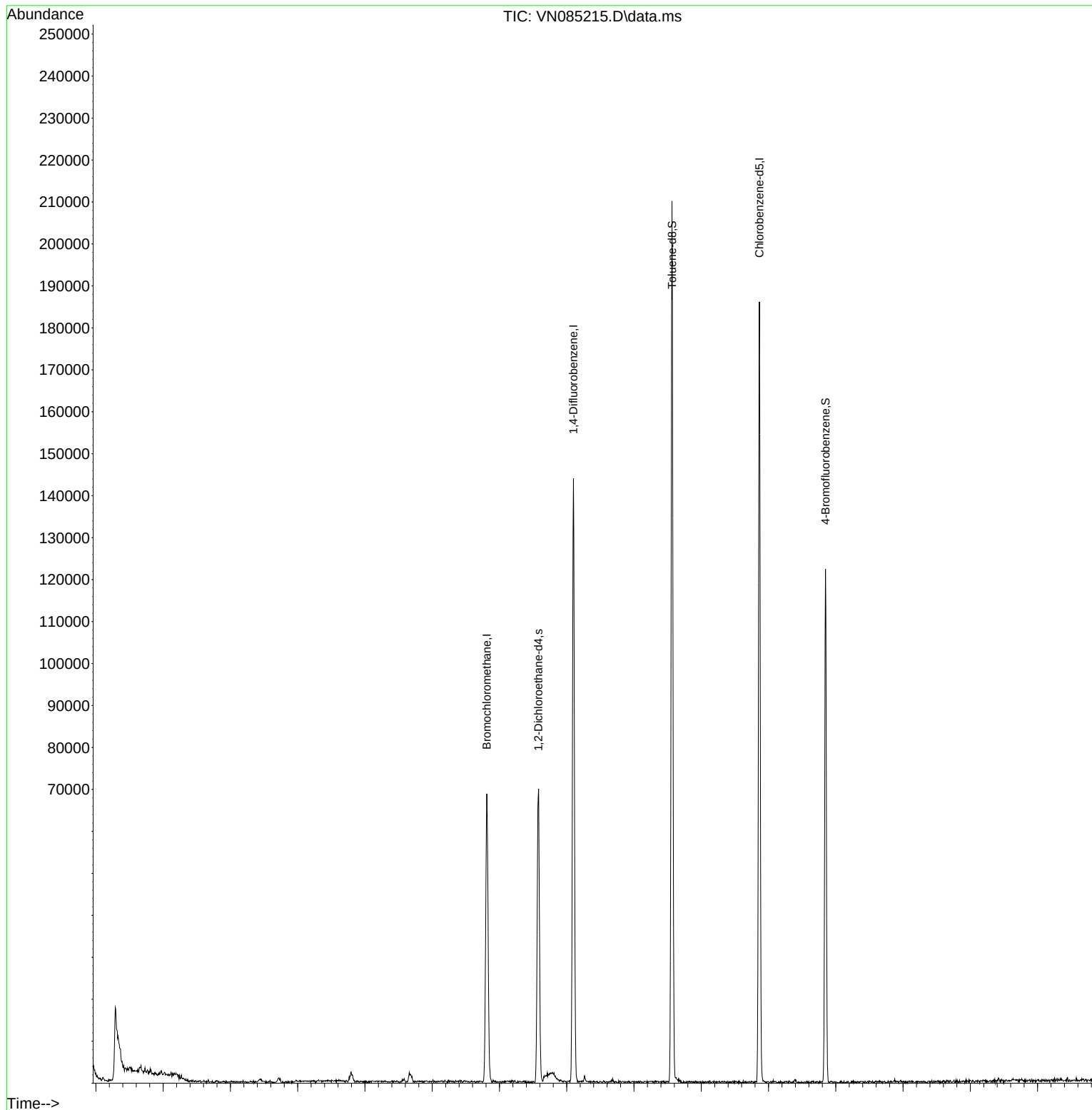
Target Compounds	Qvalue

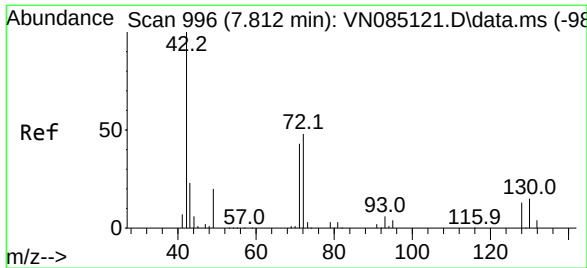
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
Data File : VN085215.D
Acq On : 16 Dec 2024 13:33
Operator : JC\MD
Sample : P5283-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-RW10A-IDWGW-20241213

Quant Time: Dec 17 02:01:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

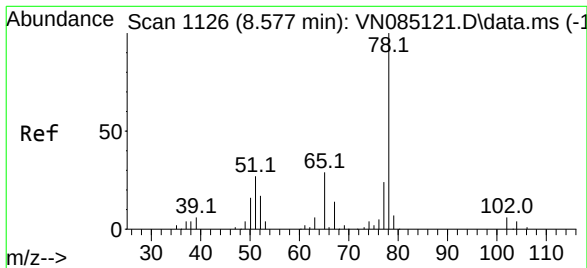
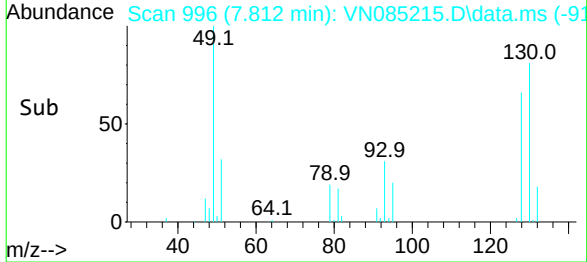
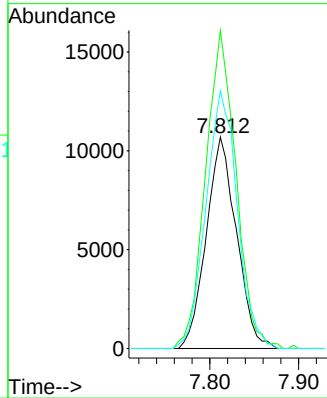
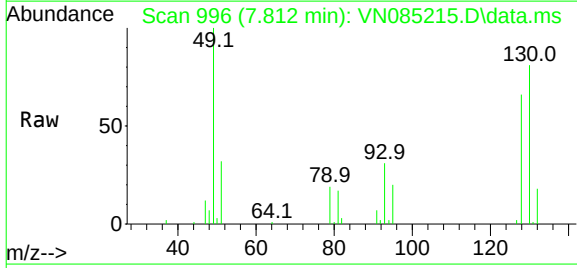




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085215.D
Acq: 16 Dec 2024 13:33

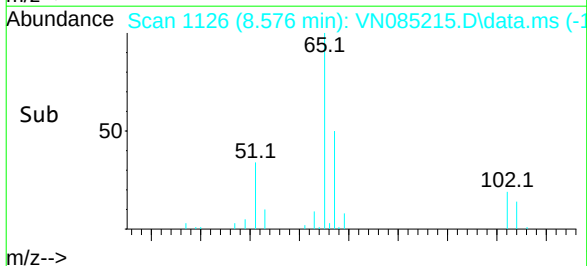
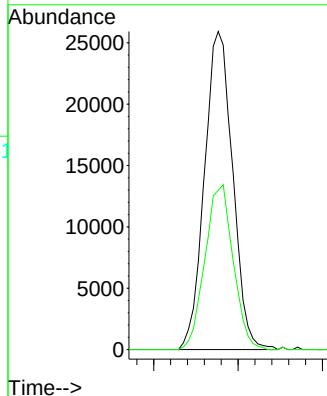
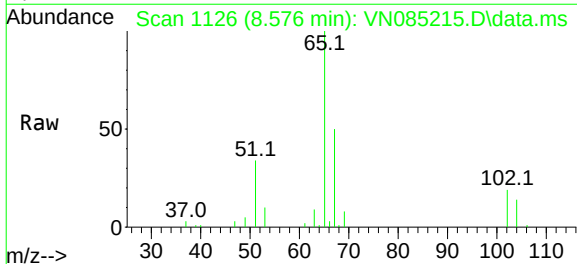
Instrument :
MSVOA_N
ClientSampleId :
TT-RW10A-IDWGW-20241213

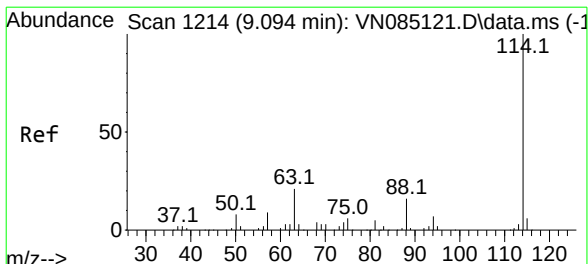
Tgt Ion	Ratio	Lower	Upper
128	100		
49	150.2	0.0	394.5
130	127.0	0.0	316.5



#27
1,2-Dichloroethane-d4
Concen: 29.966 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085215.D
Acq: 16 Dec 2024 13:33

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.8	39.9	59.9

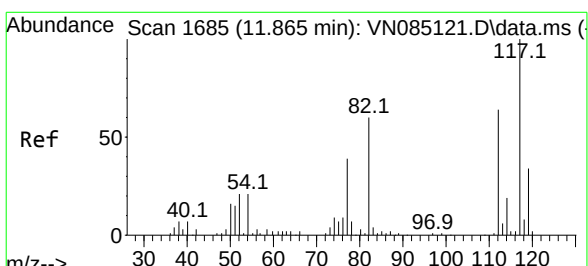
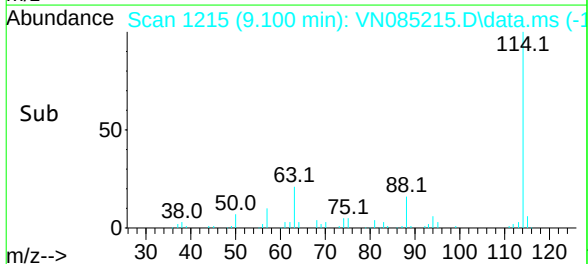
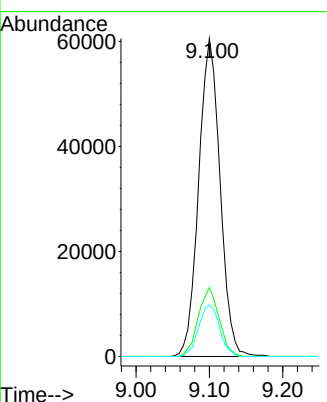
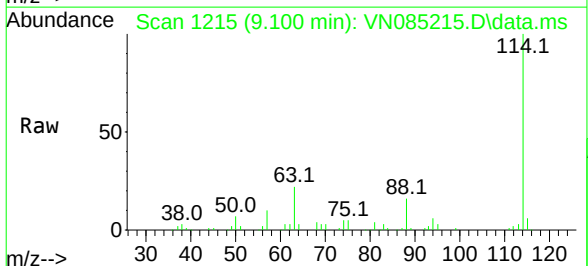




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1214
 Delta R.T. -0.000 min
 Lab File: VN085215.D
 Acq: 16 Dec 2024 13:33

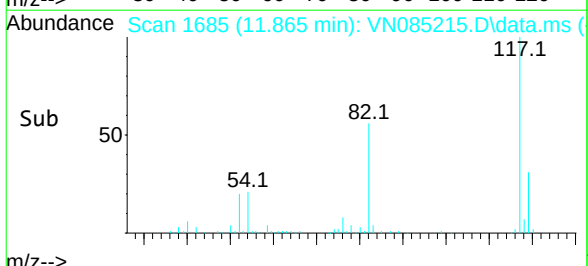
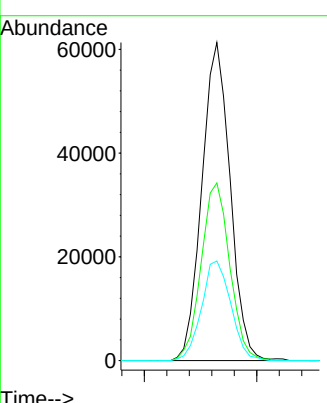
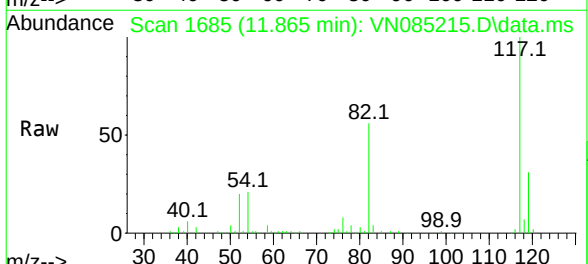
Instrument : MSVOA_N
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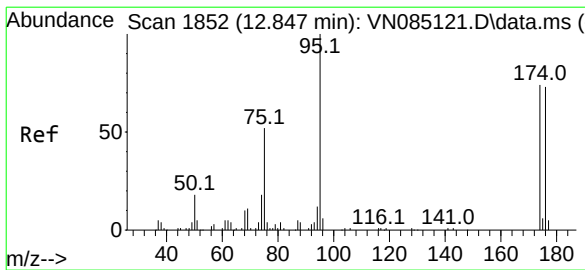
Tgt Ion:	114	Resp:	122588
Ion	Ratio	Lower	Upper
114	100		
63	21.1	16.2	24.2
88	15.9	12.5	18.7



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. -0.000 min
 Lab File: VN085215.D
 Acq: 16 Dec 2024 13:33

Tgt Ion:	117	Resp:	107111
Ion	Ratio	Lower	Upper
117	100		
82	56.5	44.2	66.4
119	32.5	25.4	38.2

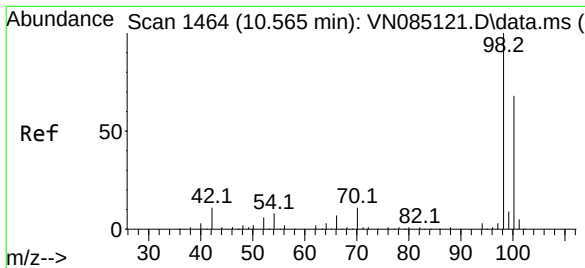
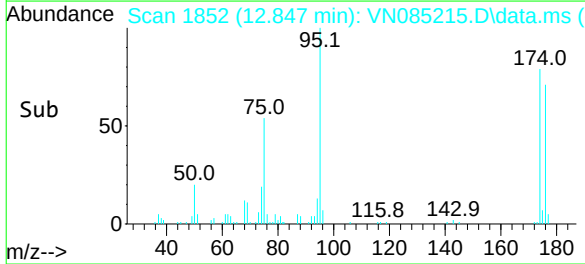
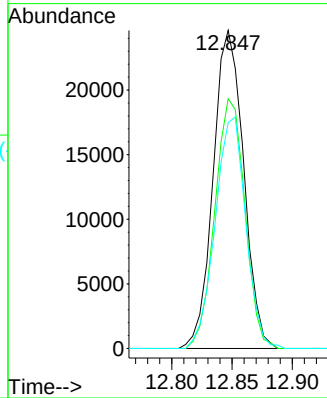
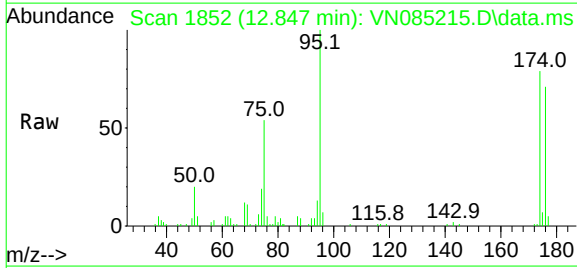




#60
4-Bromofluorobenzene
Concen: 24.337 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085215.D
Acq: 16 Dec 2024 13:33

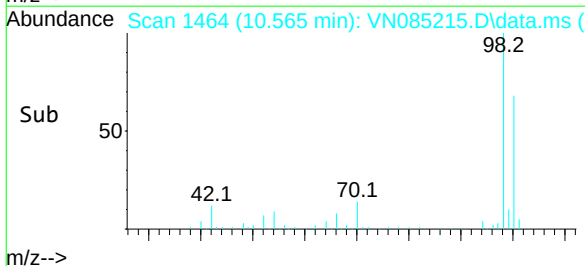
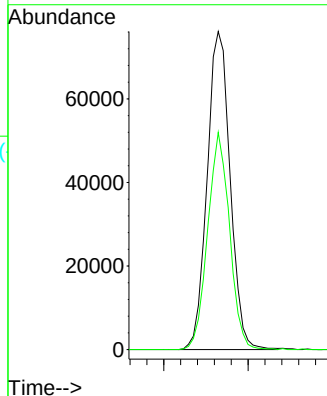
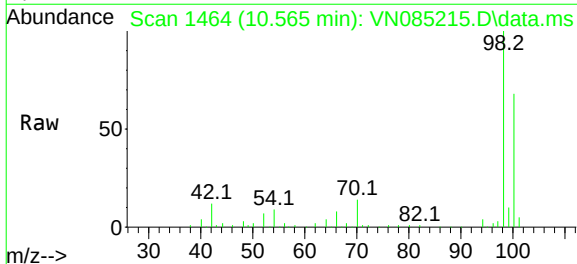
Instrument :
MSVOA_N
ClientSampleId :
TT-RW10A-IDWGW-20241213

Tgt Ion:	95	Resp:	43131
Ion	Ratio	Lower	Upper
95	100		
174	77.6	60.3	90.5
176	73.5	57.4	86.0



#63
Toluene-d8
Concen: 28.710 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085215.D
Acq: 16 Dec 2024 13:33

Tgt Ion:	98	Resp:	144249
Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.0	78.0





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VN085117.D		RRF020 = VN085118.D		RRF050 = VN085119.D		RRF100 = VN085120.D		RRF150 = VN085121.D		RRF =			
COMPOUND		RRF005	RRF020	RRF050	RRF100	RRF150	RRF								% RSD
Dichlorodifluoromethane		2.072	2.467	2.334	2.565	2.563		2.400							8.6
Chloromethane		2.058	2.093	2.013	2.202	2.256		2.124							4.8
Vinyl Chloride		2.171	2.147	2.026	2.258	2.263		2.173							4.5
Bromomethane		1.578	1.334	1.261	1.364	1.361		1.380							8.6
Chloroethane		1.331	1.302	1.259	1.382	1.401		1.335							4.4
Trichlorofluoromethane		3.495	3.461	3.321	3.725	3.781		3.557							5.4
1,1,2-Trichlorotrifluoroethane		1.976	1.924	1.900	2.062	2.084		1.989							4.1
1,1-Dichloroethene		1.669	1.752	1.743	1.978	1.993		1.827							8.1
Acrolein		0.309	0.255	0.299	0.338	0.365		0.313							13.2
Acrylonitrile		0.809	0.837	0.858	0.977	0.994		0.895							9.4
Acetone		0.217	0.228	0.233	0.270	0.264		0.243							9.6
Carbon Disulfide		5.377	5.368	5.062	5.709	5.789		5.461							5.4
Methyl tert-Butyl Ether		4.744	5.454	5.524	6.311	6.507		5.708							12.5
Methyl Acetate		2.041	2.062	2.033	2.305	2.337		2.155							7
Methylene Chloride		2.198	2.012	1.927	2.127	2.100		2.073							5.1
trans-1,2-Dichloroethene		1.876	1.799	1.782	2.012	2.027		1.899							6.1
1,1-Dichloroethane		3.621	3.416	3.269	3.705	3.693		3.541							5.4
Cyclohexane		0.458	0.563	0.563	0.591	0.584		0.552							9.8
2-Butanone		0.207	0.217	0.218	0.235	0.234		0.222							5.4
Carbon Tetrachloride		0.619	0.587	0.566	0.591	0.593		0.591							3.2
2,2-Dichloropropane		0.624	0.608	0.602	0.636	0.634		0.621							2.5
cis-1,2-Dichloroethene		2.011	2.125	2.092	2.320	2.366		2.183							7
Chloroform		3.779	3.635	3.508	3.813	3.814		3.710							3.6
1,1,1-Trichloroethane		0.683	0.665	0.619	0.657	0.652		0.655							3.6
Methylcyclohexane		0.453	0.481	0.526	0.579	0.593		0.526							11.5
1,1-Dichloropropene		0.458	0.482	0.468	0.506	0.506		0.484							4.5
Benzene		1.581	1.501	1.456	1.543	1.523		1.521							3.1
1,2-Dichloroethane		0.564	0.505	0.491	0.518	0.510		0.518							5.4
Trichloroethene		0.367	0.356	0.344	0.373	0.371		0.362							3.4
1,2-Dichloropropane		0.388	0.370	0.351	0.366	0.368		0.368							3.7

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283
Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024
Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37
GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VN085117.D		RRF020 = VN085118.D		RRF050 = VN085119.D		RRF100 = VN085120.D		RRF150 = VN085121.D		RRF =			
COMPOUND		RRF005	RRF020	RRF050	RRF100	RRF150	RRF								% RSD
Dibromomethane		0.274	0.266	0.253	0.263	0.264		0.264				0.264			2.8
Bromodichloromethane		0.596	0.554	0.541	0.565	0.568		0.565				0.565			3.6
4-Methyl-2-Pentanone		0.431	0.494	0.483	0.524	0.516		0.490				0.490			7.5
Toluene		1.780	1.713	1.680	1.799	1.777		1.750				1.750			2.9
t-1,3-Dichloropropene		0.518	0.517	0.541	0.592	0.603		0.554				0.554			7.4
cis-1,3-Dichloropropene		0.581	0.590	0.583	0.629	0.636		0.604				0.604			4.4
1,1,2-Trichloroethane		0.387	0.355	0.336	0.353	0.349		0.356				0.356			5.2
1,3-Dichloropropane		0.598	0.585	0.582	0.607	0.606		0.596				0.596			2
2-Hexanone		0.314	0.376	0.371	0.402	0.391		0.371				0.371			9.2
Dibromochloromethane		0.455	0.426	0.413	0.438	0.438		0.434				0.434			3.7
1,2-Dibromoethane		0.358	0.348	0.348	0.371	0.369		0.359				0.359			3.1
Tetrachloroethene		0.407	0.358	0.342	0.359	0.351		0.363				0.363			7
Chlorobenzene		1.074	1.056	1.037	1.121	1.113		1.080				1.080			3.3
1,1,1,2-Tetrachloroethane		0.432	0.384	0.384	0.413	0.404		0.403				0.403			5
Hexachloroethane		0.273	0.275	0.271	0.304	0.304		0.285				0.285			6
Ethyl Benzene		1.626	1.739	1.845	2.032	2.041		1.857				1.857			9.8
m/p-Xylenes		0.601	0.713	0.706	0.775	0.775		0.714				0.714			10
o-Xylene		0.561	0.648	0.681	0.734	0.729		0.671				0.671			10.5
Styrene		0.892	1.097	1.164	1.270	1.266		1.138				1.138			13.7
Bromoform		0.294	0.275	0.282	0.301	0.302		0.291				0.291			4.1
Isopropylbenzene		1.409	1.656	1.747	1.932	1.903		1.730				1.730			12.3
1,1,1,2,2-Tetrachloroethane		0.551	0.532	0.503	0.526	0.521		0.526				0.526			3.3
1,2,3-Trichloropropane		0.582	0.533	0.473	0.510	0.502		0.520				0.520			7.9
Bromobenzene		0.411	0.420	0.422	0.462	0.451		0.433				0.433			5.1
n-propylbenzene		1.744	2.020	2.082	2.286	2.264		2.079				2.079			10.6
2-Chlorotoluene		1.143	1.271	1.266	1.378	1.371		1.286				1.286			7.5
1,3,5-Trimethylbenzene		1.241	1.441	1.488	1.630	1.609		1.482				1.482			10.6
4-Chlorotoluene		1.212	1.262	1.274	1.399	1.378		1.305				1.305			6.1
tert-butylbenzene		0.978	1.173	1.226	1.368	1.340		1.217				1.217			12.8
1,2,4-Trimethylbenzene		1.151	1.429	1.499	1.644	1.596		1.464				1.464			13.2

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283
 Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VN085117.D		RRF020 = VN085118.D		RRF050 = VN085119.D	
		RRF100 = VN085120.D		RRF150 = VN085121.D		RRF =	
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
sec-Butylbenzene	1.421	1.669	1.727	1.927	1.901	1.729	11.8
p-Isopropyltoluene	1.090	1.372	1.460	1.626	1.620	1.434	15.4
1,3-Dichlorobenzene	0.779	0.765	0.772	0.842	0.816	0.795	4.1
1,4-Dichlorobenzene	0.725	0.742	0.759	0.829	0.818	0.775	6
n-Butylbenzene	0.903	1.085	1.230	1.399	1.395	1.203	17.6
1,2-Dichlorobenzene	0.743	0.721	0.734	0.787	0.767	0.750	3.5
1,2-Dibromo-3-Chloropropane	0.095	0.103	0.101	0.112	0.116	0.105	8
1,2,4-Trichlorobenzene	0.280	0.342	0.364	0.421	0.431	0.367	16.8
Hexachlorobutadiene	0.206	0.184	0.173	0.196	0.196	0.191	6.7
Naphthalene	0.704	0.971	1.176	1.410	1.447	1.142	27.3
1,2,3-Trichlorobenzene	0.280	0.342	0.364	0.421	0.431	0.367	16.8
1,2-Dichloroethane-d4	2.462	2.393	2.263	2.370	2.414	2.380	3.1
Toluene-d8	1.462	1.443	1.392	1.372	1.367	1.407	3.1
4-Bromofluorobenzene	0.479	0.495	0.500	0.509	0.499	0.496	2.2
Methyl Iodide	2.117	2.346	2.450	2.826	2.930	2.534	13.4
Methyl methacrylate	0.299	0.343	0.346	0.382	0.388	0.352	10.1

* 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_N\methods\
 Method File : 624N120624W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Dec 06 22:50:42 2024
 Response Via : Initial Calibration

Calibration Files

5 =VN085117.D 20 =VN085118.D 50 =VN085119.D 100 =VN085120.D 150 =VN085121.D

	Compound	5	20	50	100	150	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	2.072	2.467	2.334	2.565	2.562	2.400	8.60
3) M	Chloromethane	2.058	2.093	2.013	2.202	2.256	2.124	4.77
4) M	Vinyl Chloride	2.171	2.147	2.026	2.258	2.263	2.173	4.46
5) M	Bromomethane	1.578	1.334	1.261	1.364	1.361	1.380	8.58
6) M	Chloroethane	1.331	1.302	1.259	1.382	1.401	1.335	4.35
7) M	Trichlorofluorom...	3.495	3.461	3.321	3.725	3.781	3.557	5.39
8) T	Diethyl Ether	0.973	1.048	1.090	1.254	1.268	1.127	11.54
9)	1,1,2-Trichlorot...	1.976	1.924	1.900	2.062	2.084	1.989	4.10
10) M	1,1-Dichloroethene	1.669	1.752	1.743	1.978	1.993	1.827	8.12
11)	Methyl Iodide	2.117	2.346	2.450	2.826	2.930	2.534	13.36
12)	Methyl Acetate	2.041	2.062	2.033	2.305	2.337	2.155	7.04
13) M	Acrolein	0.309	0.255	0.299	0.338	0.365	0.313	13.19
14) M	Acrylonitrile	0.809	0.837	0.858	0.977	0.994	0.895	9.44
15) M	Acetone	0.217	0.228	0.233	0.270	0.264	0.243	9.61
16) M	Carbon Disulfide	5.377	5.368	5.062	5.709	5.789	5.461	5.37
17)	Allyl chloride	2.340	2.399	2.527	2.903	2.903	2.614	10.40
18) M	Methylene Chloride	2.198	2.012	1.927	2.127	2.100	2.073	5.07
19) M	trans-1,2-Dichlo...	1.876	1.799	1.782	2.012	2.027	1.899	6.09
20) T	Diisopropyl ether	5.145	5.673	5.547	6.154	6.167	5.737	7.55
21) M	1,1-Dichloroethane	3.621	3.416	3.269	3.705	3.693	3.541	5.39
22) M	cis-1,2-Dichloro...	2.011	2.125	2.092	2.320	2.366	2.183	7.00
23) M	tert-Butyl Alcohol	0.280	0.294	0.296	0.365	0.371	0.321	13.45
24) M	Methyl tert-Buty...	4.744	5.454	5.524	6.311	6.507	5.708	12.48
25) M	Chloroform	3.779	3.635	3.508	3.813	3.814	3.710	3.63
26)	Cyclohexane	2.265	2.925	2.915	3.239	3.234	2.916	13.60
27) s	1,2-Dichloroetha...	2.462	2.393	2.263	2.370	2.414	2.380	3.10
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.458	0.482	0.468	0.506	0.506	0.484	4.49
30) M	2-Butanone	0.207	0.217	0.218	0.235	0.234	0.222	5.37
31)	2,2-Dichloropropane	0.624	0.608	0.602	0.636	0.634	0.621	2.51
32) M	1,1,1-Trichloroe...	0.683	0.665	0.619	0.657	0.652	0.655	3.60
33) M	Carbon Tetrachlo...	0.619	0.587	0.566	0.591	0.593	0.591	3.16
34) M	Benzene	1.581	1.501	1.456	1.543	1.523	1.521	3.09
35)	Methacrylonitrile	0.223	0.250	0.259	0.258	0.260	0.250	6.27
36) M	1,2-Dichloroethane	0.564	0.505	0.491	0.518	0.510	0.518	5.39
37) M	Trichloroethene	0.367	0.356	0.344	0.373	0.371	0.362	3.40
38)	Methylcyclohexane	0.453	0.481	0.526	0.579	0.593	0.526	11.51
39) M	1,2-Dichloropropane	0.388	0.370	0.351	0.366	0.368	0.368	3.66
40)	Dibromomethane	0.274	0.266	0.253	0.263	0.264	0.264	2.84
41) M	Bromodichloromet...	0.596	0.554	0.541	0.565	0.568	0.565	3.61
42) M	Vinyl Acetate	0.638	0.747	0.796	0.861	0.845	0.777	11.56
43)	Ethyl Acetate	0.436	0.404	0.441	0.467	0.462	0.442	5.73
44)	Isopropyl Acetate	0.740	0.746	0.749	0.793	0.813	0.768	4.24
45) T	1,4-Dioxane	0.005	0.006	0.006	0.007	0.007	0.006	9.00
46)	Methyl methacrylate	0.299	0.343	0.346	0.382	0.388	0.352	10.10
47)	n-amyl Acetate	0.520	0.619	0.656	0.720	0.716	0.646	12.76
48) M	t-1,3-Dichloropr...	0.518	0.517	0.541	0.592	0.603	0.554	7.36
49) T	cis-1,3-Dichloro...	0.581	0.590	0.583	0.629	0.636	0.604	4.41
50) M	1,1,2-Trichloroe...	0.387	0.355	0.336	0.353	0.349	0.356	5.23
51)	Ethyl methacrylate	0.441	0.506	0.542	0.607	0.612	0.542	13.27
52)	1,3-Dichloropropane	0.598	0.585	0.582	0.607	0.606	0.596	1.96
53) M	Dibromochloromet...	0.455	0.426	0.413	0.438	0.438	0.434	3.66
54) M	1,2-Dibromoethane	0.358	0.348	0.348	0.371	0.369	0.359	3.14
55) M	2-Chloroethyl vi...	0.200	0.247	0.258	0.284	0.269	0.252	12.73
56) M	Bromoform	0.294	0.275	0.282	0.301	0.302	0.291	4.06

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N120624W.M

57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Penta...	0.431	0.494	0.483	0.524	0.516	0.490	7.51
59) M	2-Hexanone	0.314	0.376	0.371	0.402	0.391	0.371	9.15
60) S	4-Bromofluoroben...	0.479	0.495	0.500	0.509	0.499	0.496	2.21
61) M	Tetrachloroethene	0.407	0.358	0.342	0.359	0.351	0.363	6.99
62) M	Toluene	1.780	1.713	1.680	1.799	1.777	1.750	2.88
63) S	Toluene-d8	1.462	1.443	1.392	1.372	1.367	1.407	3.05
64) M	Chlorobenzene	1.074	1.056	1.037	1.121	1.113	1.080	3.34
65)	1,1,1,2-Tetrachl...	0.432	0.384	0.384	0.413	0.404	0.403	5.03
66) M	Ethyl Benzene	1.626	1.739	1.845	2.032	2.041	1.857	9.77
67) M	m/p-Xylenes	0.601	0.713	0.706	0.775	0.775	0.714	10.00
68) M	o-Xylene	0.561	0.648	0.681	0.734	0.729	0.671	10.54
69) M	Styrene	0.892	1.097	1.164	1.270	1.266	1.138	13.68
70)	Isopropylbenzene	1.409	1.656	1.747	1.932	1.903	1.730	12.25
71) M	1,1,2,2-Tetrachl...	0.551	0.532	0.503	0.526	0.521	0.526	3.31
72)	1,2,3-Trichlorop...	0.582	0.533	0.473	0.510	0.502	0.520	7.87
73)	Bromobenzene	0.411	0.420	0.422	0.462	0.451	0.433	5.09
74)	n-propylbenzene	1.744	2.020	2.082	2.286	2.264	2.079	10.56
75)	2-Chlorotoluene	1.143	1.271	1.266	1.378	1.371	1.286	7.45
76)	1,3,5-Trimethylb...	1.241	1.441	1.488	1.630	1.609	1.482	10.57
77)	t-1,4-Dichloro-2...	0.159	0.179	0.184	0.212	0.212	0.189	11.96
78)	4-Chlorotoluene	1.212	1.262	1.274	1.399	1.378	1.305	6.13
79)	tert-butylbenzene	0.978	1.173	1.226	1.368	1.340	1.217	12.78
80)	1,2,4-Trimethylb...	1.151	1.429	1.499	1.644	1.596	1.464	13.23
81)	sec-Butylbenzene	1.421	1.669	1.727	1.927	1.901	1.729	11.83
82)	p-Isopropyltoluene	1.090	1.372	1.460	1.626	1.620	1.434	15.36
83) M	1,3-Dichlorobenzene	0.779	0.765	0.772	0.842	0.816	0.795	4.10
84) M	1,4-Dichlorobenzene	0.725	0.742	0.759	0.829	0.818	0.775	6.00
85)	n-Butylbenzene	0.903	1.085	1.230	1.399	1.395	1.203	17.63
86) T	Hexachloroethane	0.273	0.275	0.271	0.304	0.304	0.285	6.00
87) M	1,2-Dichlorobenzene	0.743	0.721	0.734	0.787	0.767	0.750	3.51
88)	1,2-Dibromo-3-Ch...	0.095	0.103	0.101	0.112	0.116	0.105	8.00
89)	1,2,4-Trichlorob...	0.280	0.342	0.364	0.421	0.431	0.367	16.83
90)	Hexachlorobutadiene	0.206	0.184	0.173	0.196	0.196	0.191	6.66
91) M	Naphthalene	0.704	0.971	1.176	1.410	1.447	1.142	27.26
92)	1,2,3-Trichlorob...	0.280	0.342	0.364	0.421	0.431	0.367	16.83

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085117.D
 Acq On : 06 Dec 2024 10:02
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 22:28:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29169	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	144230	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	136167	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71806	31.025	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.400%			
60) 4-Bromofluorobenzene	12.847	95	65235	28.954	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.500%			
63) Toluene-d8	10.565	98	199139	31.177	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	10073	4.316	ug/l	100
3) Chloromethane	2.359	50	10004	4.843	ug/l	96
4) Vinyl Chloride	2.518	62	10554	4.995	ug/l #	88
5) Bromomethane	2.953	94	7670	5.718	ug/l	97
6) Chloroethane	3.124	64	6472	4.986	ug/l #	87
7) Trichlorofluoromethane	3.500	101	16991	4.913	ug/l	98
8) Diethyl Ether	3.965	74	4729	4.317	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	9605m	4.967	ug/l	
10) 1,1-Dichloroethene	4.342	96	8113	4.567	ug/l	92
11) Methyl Iodide	4.594	142	10293m	4.178	ug/l	
12) Methyl Acetate	5.030	43	9920	4.734	ug/l	99
13) Acrolein	4.189	56	7501	24.630	ug/l	87
14) Acrylonitrile	5.706	53	19671m	22.606	ug/l	
15) Acetone	4.418	58	5274	22.365	ug/l	85
16) Carbon Disulfide	4.706	76	26140	4.923	ug/l	96
17) Allyl chloride	5.024	41	11376	4.476	ug/l	89
18) Methylene Chloride	5.271	84	10687	5.302	ug/l #	83
19) trans-1,2-Dichloroethene	5.789	96	9118	4.938	ug/l #	79
20) Diisopropyl ether	6.659	45	25012m	4.484	ug/l	
21) 1,1-Dichloroethane	6.571	63	17605	5.113	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	9776	4.606	ug/l	96
23) tert-Butyl Alcohol	5.518	59	6813m	21.825	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	23064	4.159	ug/l #	73
25) Chloroform	7.959	83	18374	5.094	ug/l	96
26) Cyclohexane	8.253	56	11013	3.885	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	11010	4.731	ug/l	97
30) 2-Butanone	7.477	43	24858	23.275	ug/l #	97
31) 2,2-Dichloropropane	7.488	77	14990	5.023	ug/l #	100
32) 1,1,1-Trichloroethane	8.171	97	16430	5.216	ug/l	96
33) Carbon Tetrachloride	8.359	117	14874	5.233	ug/l #	95
34) Benzene	8.606	78	38013	5.199	ug/l #	92
35) Methacrylonitrile	7.777	41	5355	4.455	ug/l	89
36) 1,2-Dichloroethane	8.671	62	13568	5.451	ug/l #	93
37) Trichloroethene	9.347	130	8822	5.067	ug/l	92
38) Methylcyclohexane	9.600	83	10891	4.304	ug/l	98
39) 1,2-Dichloropropane	9.624	63	9337	5.273	ug/l	100
40) Dibromomethane	9.706	93	6598	5.194	ug/l	95
41) Bromodichloromethane	9.882	83	14332	5.278	ug/l #	84
42) Vinyl Acetate	6.600	43	76634	20.505	ug/l #	85

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085117.D
 Acq On : 06 Dec 2024 10:02
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 22:28:05 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Dec 06 22:19:40 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	10470	4.927	ug/l #	86
44) Isopropyl Acetate	8.682	43	17789	4.817	ug/l	98
45) 1,4-Dioxane	9.688	88	2638	85.662	ug/l #	78
46) Methyl methacrylate	9.682	41	7196	4.258	ug/l	92
47) n-amyl Acetate	12.494	43	12494	4.021	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	12463	4.675	ug/l	93
49) cis-1,3-Dichloropropene	10.306	75	13955	4.809	ug/l	99
50) 1,1,2-Trichloroethane	11.018	97	9292	5.429	ug/l	91
51) Ethyl methacrylate	10.871	69	10590	4.068	ug/l	88
52) 1,3-Dichloropropane	11.159	76	14378	5.019	ug/l	98
53) Dibromochloromethane	11.353	129	10942	5.246	ug/l	98
54) 1,2-Dibromoethane	11.471	107	8602	4.988	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	23999	19.844	ug/l	98
56) Bromoform	12.576	173	7066	5.052	ug/l	95
58) 4-Methyl-2-Pentanone	10.441	43	48868	21.990	ug/l	99
59) 2-Hexanone	11.194	43	35678	21.188	ug/l	97
61) Tetrachloroethene	11.100	164	9241	5.604	ug/l	93
62) Toluene	10.629	91	40385	5.085	ug/l	96
64) Chlorobenzene	11.888	112	24379	4.972	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	9796	5.352	ug/l	93
66) Ethyl Benzene	11.959	91	36907	4.380	ug/l	98
67) m/p-Xylenes	12.070	106	27271	8.414	ug/l	98
68) o-Xylene	12.394	106	12741	4.186	ug/l	97
69) Styrene	12.412	104	20235	3.918	ug/l	95
70) Isopropylbenzene	12.694	105	31980	4.073	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	12502	5.232	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	13212m	5.597	ug/l	
73) Bromobenzene	12.976	156	9325	4.742	ug/l	94
74) n-propylbenzene	13.035	91	39585	4.194	ug/l	100
75) 2-Chlorotoluene	13.123	91	25942	4.445	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	28160	4.187	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	3618	4.218	ug/l	96
78) 4-Chlorotoluene	13.217	91	27508	4.644	ug/l	99
79) tert-butylbenzene	13.435	119	22204	4.019	ug/l	95
80) 1,2,4-Trimethylbenzene	13.482	105	26128	3.933	ug/l	100
81) sec-Butylbenzene	13.617	105	32252	4.109	ug/l	99
82) p-Isopropyltoluene	13.729	119	24743	3.803	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	17680	4.900	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	16455	4.680	ug/l	98
85) n-Butylbenzene	14.053	91	20500	3.756	ug/l	97
86) Hexachloroethane	14.335	117	6189	4.778	ug/l	84
87) 1,2-Dichlorobenzene	14.106	146	16856	4.950	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.711	75	2146	4.495	ug/l	93
89) 1,2,4-Trichlorobenzene	15.835	180	6347	3.806	ug/l	91
90) Hexachlorobutadiene	15.494	225	4673	5.392	ug/l	93
91) Naphthalene	15.635	128	15972	3.083	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.835	180	6347	3.806	ug/l	91

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

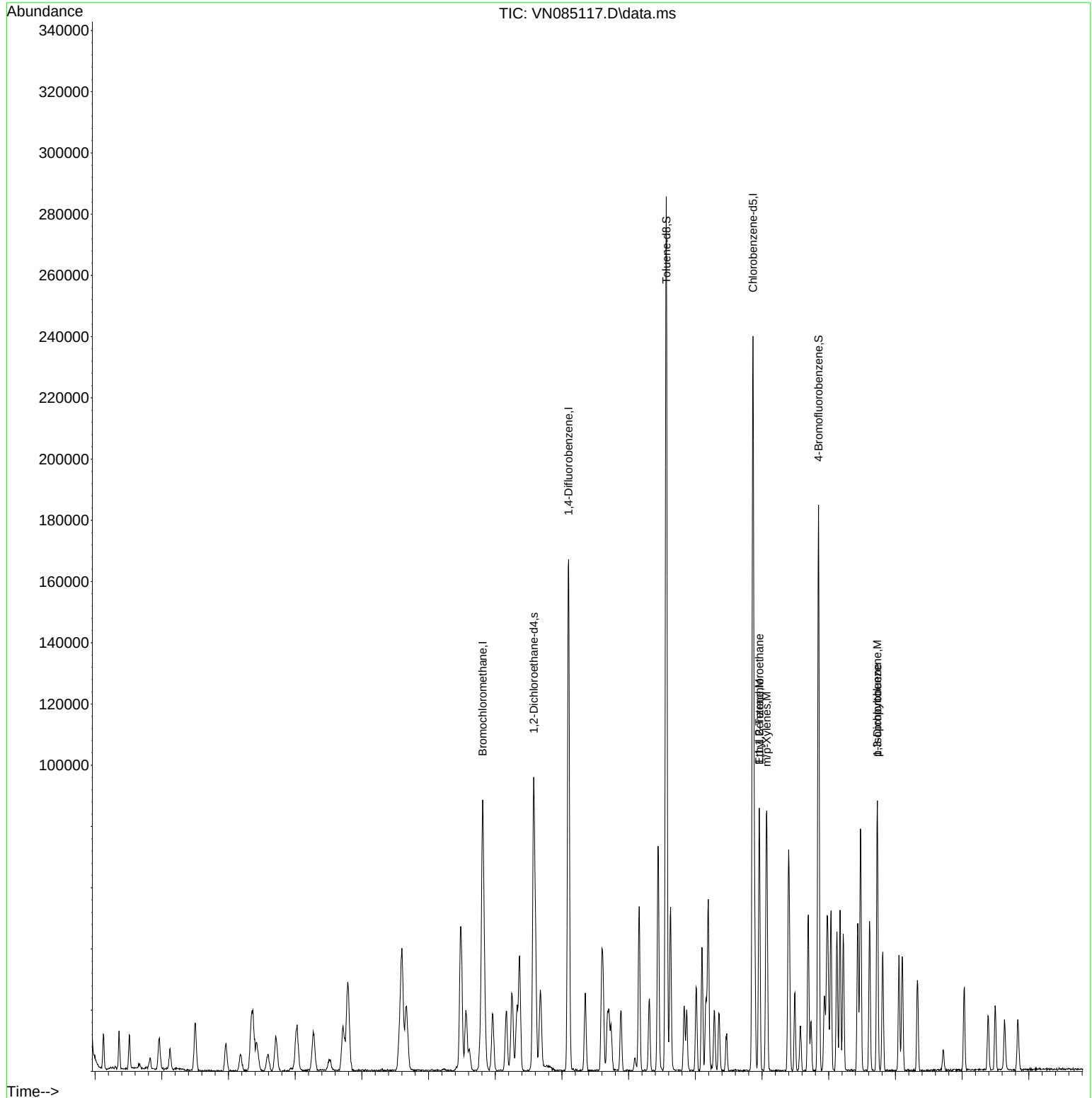
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Acq On : 06 Dec 2024 10:02
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

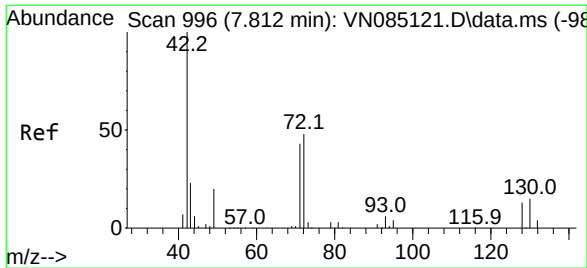
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ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By : Mahesh Dadoda 12/09/2024
Supervised By : Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 22:28:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:19:40 2024
Response via : Initial Calibration





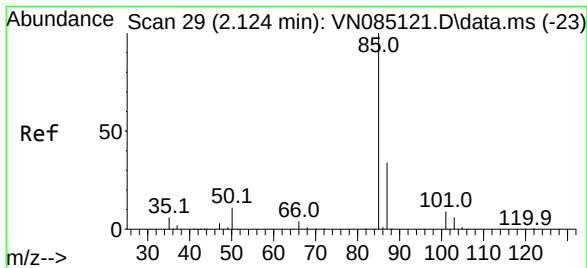
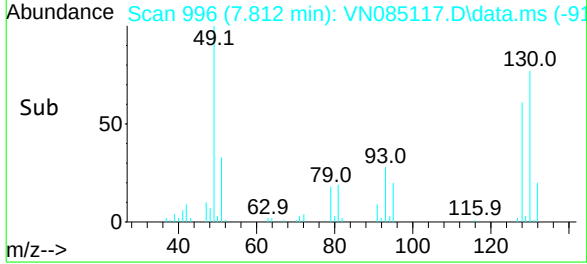
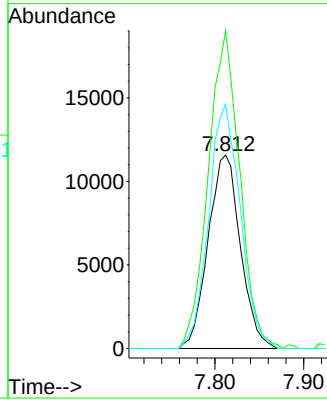
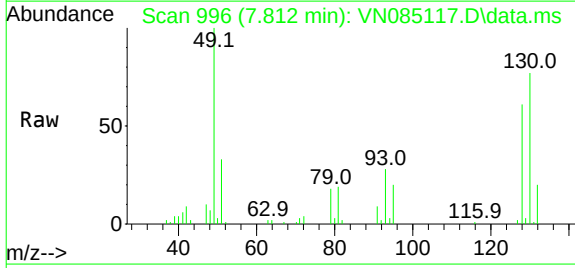
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 29169
Ion Ratio Lower Upper
128 100
49 160.4 0.0 394.5
130 124.3 0.0 316.5

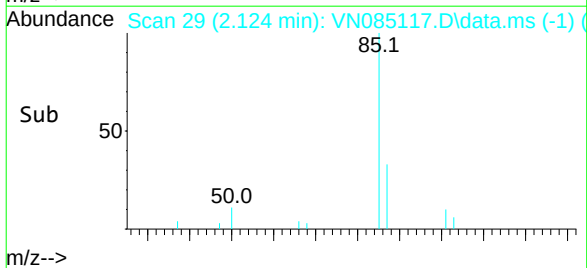
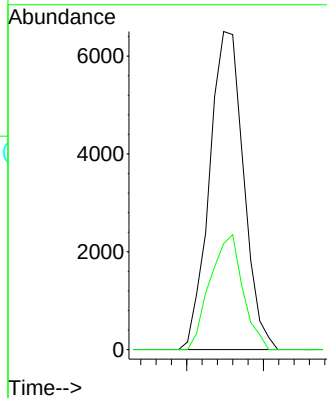
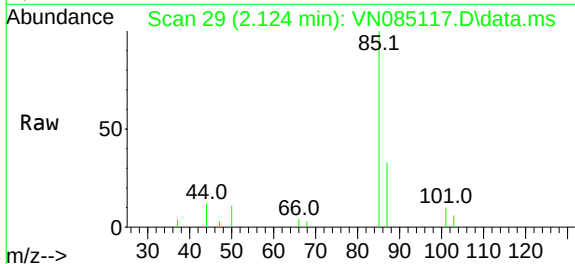
Manual Integrations
APPROVED

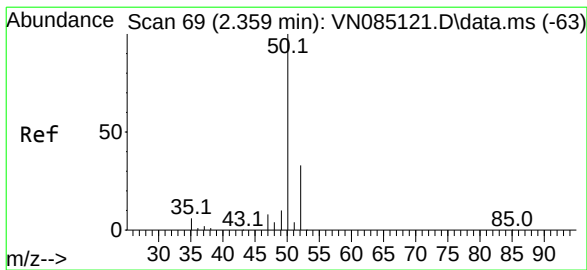
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#2
Dichlorodifluoromethane
Concen: 4.316 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

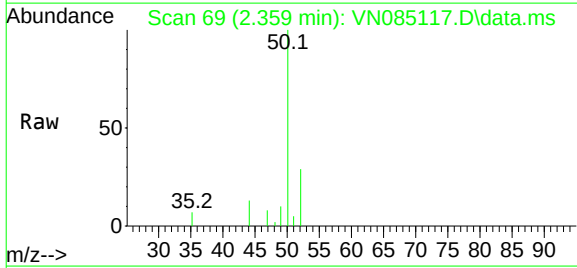
Tgt Ion: 85 Resp: 10073
Ion Ratio Lower Upper
85 100
87 33.3 16.8 50.3





#3
Chloromethane
Concen: 4.843 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

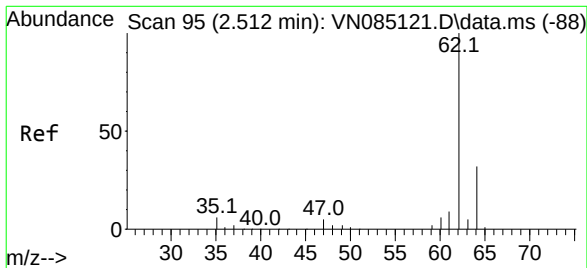
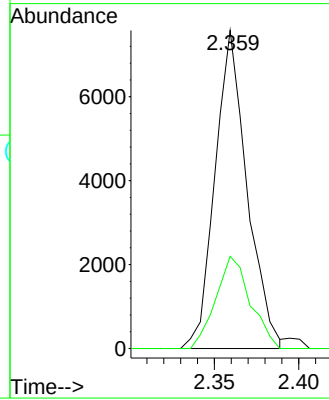
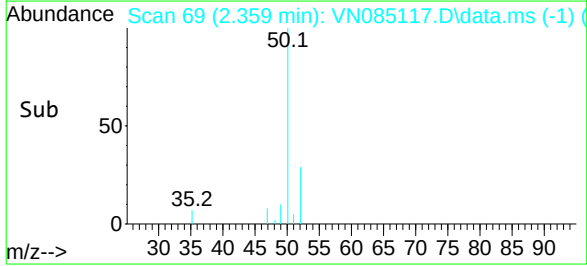
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 50 Resp: 10004
Ion Ratio Lower Upper
50 100
52 29.0 25.0 37.4

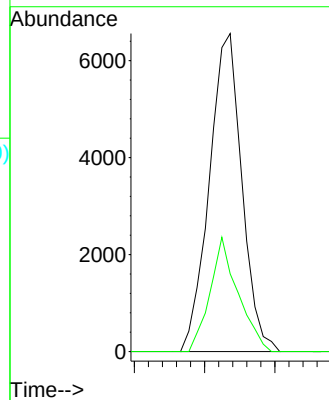
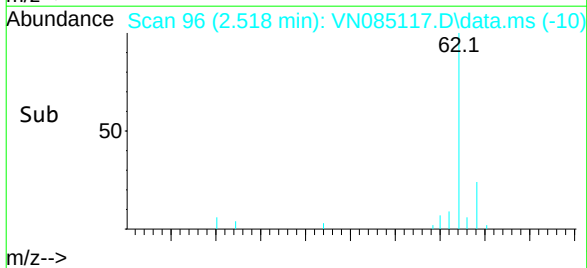
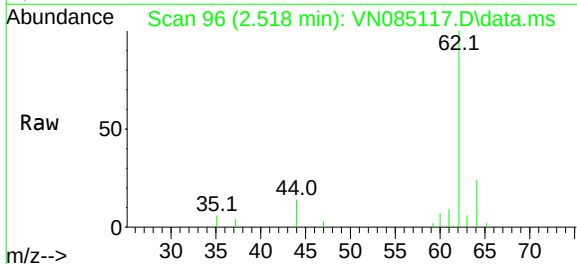
Manual Integrations
APPROVED

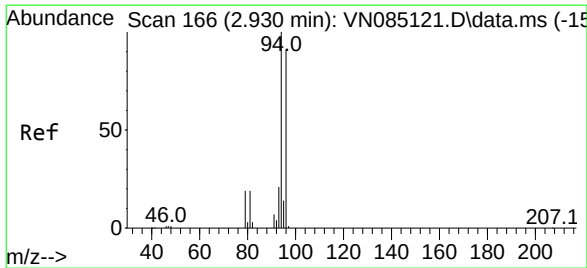
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#4
Vinyl Chloride
Concen: 4.995 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

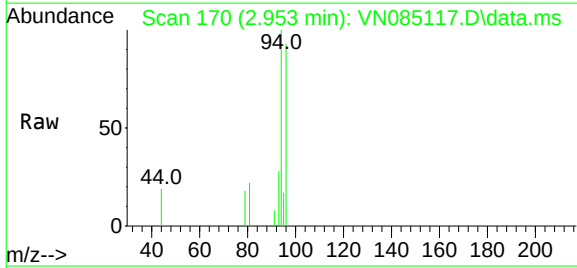
Tgt Ion: 62 Resp: 10554
Ion Ratio Lower Upper
62 100
64 24.5 24.9 37.3#





#5
Bromomethane
Concen: 5.718 ug/l
RT: 2.953 min Scan# 171
Delta R.T. -0.012 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

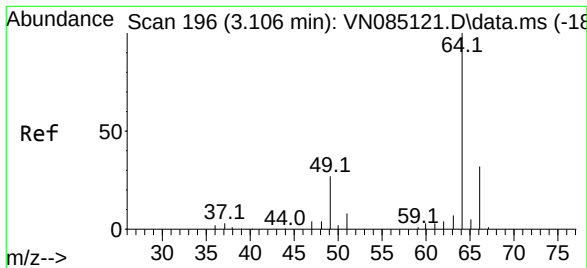
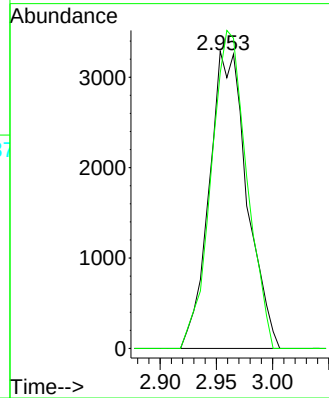
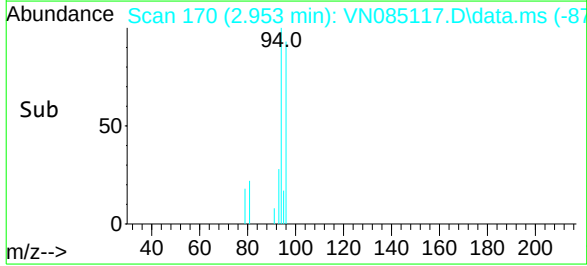
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 94 Resp: 7670
Ion Ratio Lower Upper
94 100
96 92.8 76.2 114.4

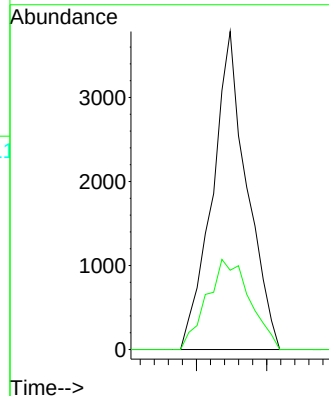
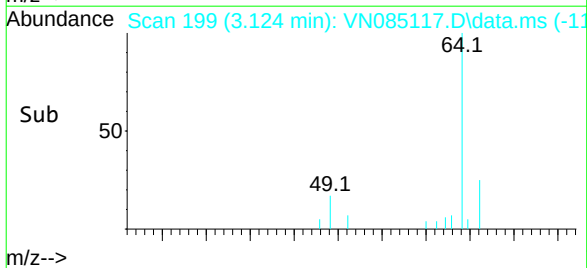
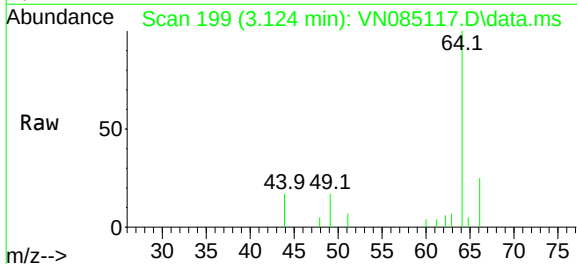
Manual Integrations
APPROVED

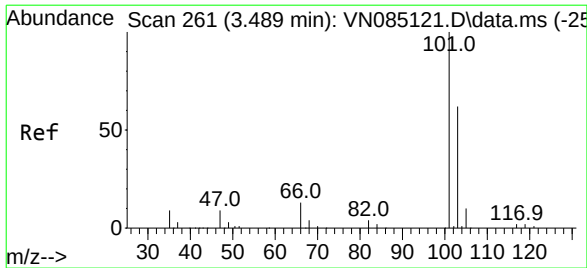
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#6
Chloroethane
Concen: 4.986 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

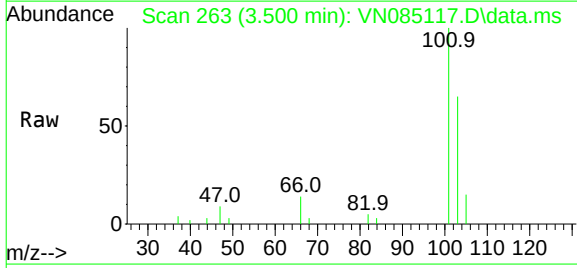
Tgt Ion: 64 Resp: 6472
Ion Ratio Lower Upper
64 100
66 24.9 25.5 38.3#





#7
 Trichlorofluoromethane
 Concen: 4.913 ug/l
 RT: 3.500 min Scan# 261
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

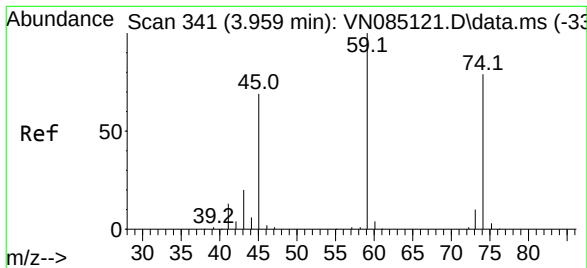
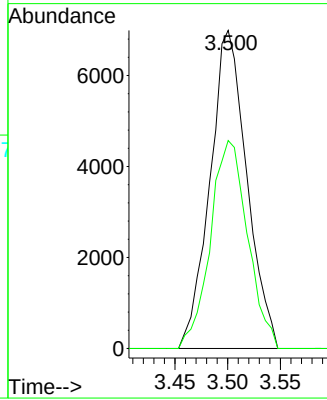
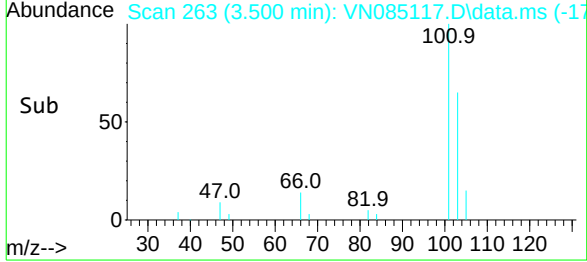
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005



Tgt Ion: 101 Resp: 16991
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.3 76.9

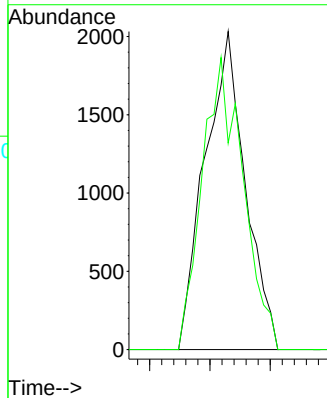
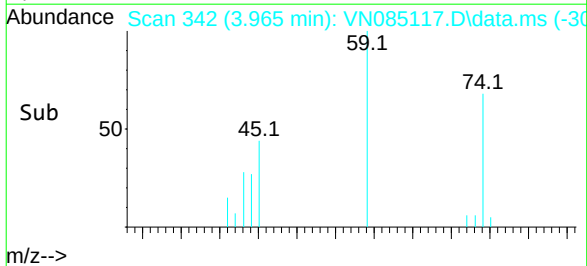
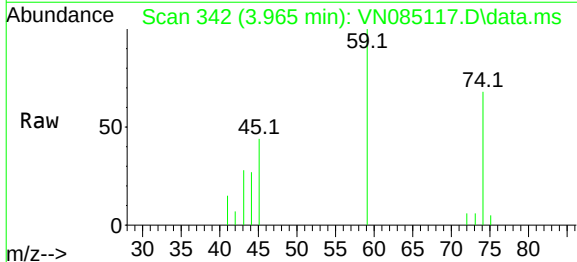
Manual Integrations
 APPROVED

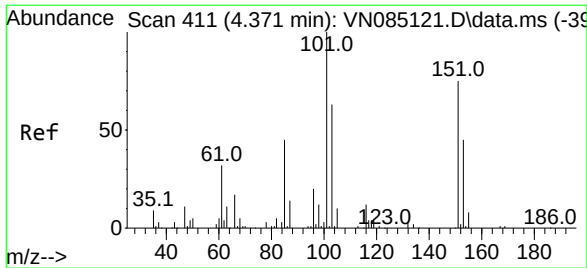
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#8
 Diethyl Ether
 Concen: 4.317 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.006 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

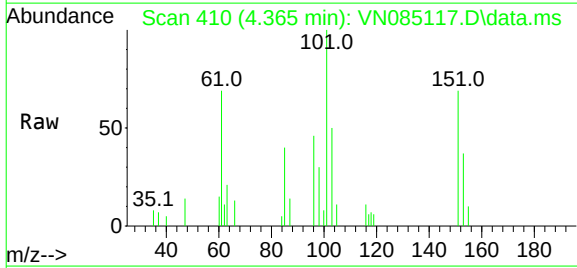
Tgt Ion: 74 Resp: 4729
 Ion Ratio Lower Upper
 74 100
 45 92.9 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.967 ug/l m
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

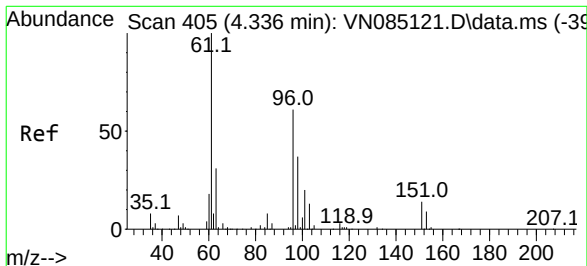
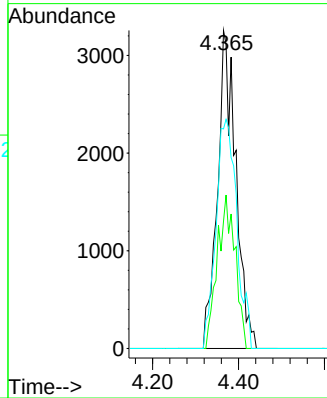
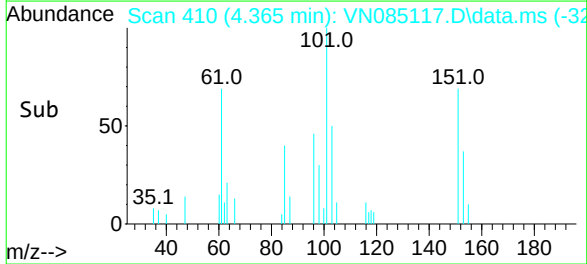
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MSVOA_N
ClientSampleId :
VSTDICC005



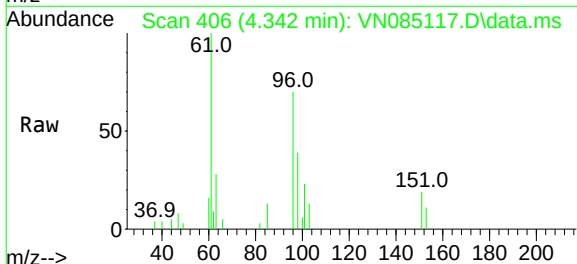
Tgt Ion: 101 Resp: 9605
Ion Ratio Lower Upper
101 100
85 31.7 0.0 88.6
151 78.6 0.0 155.8

Manual Integrations
APPROVED

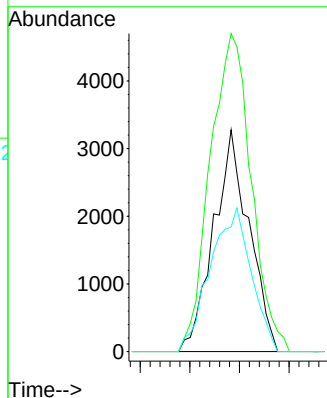
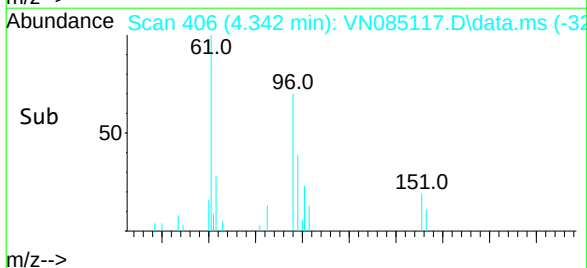
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

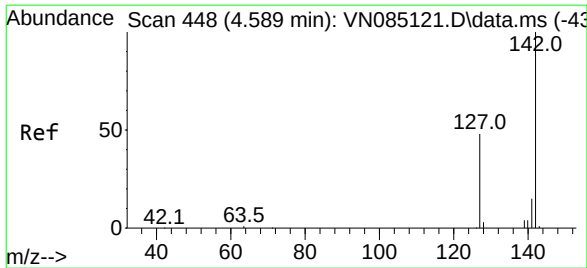


#10
1,1-Dichloroethene
Concen: 4.567 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02



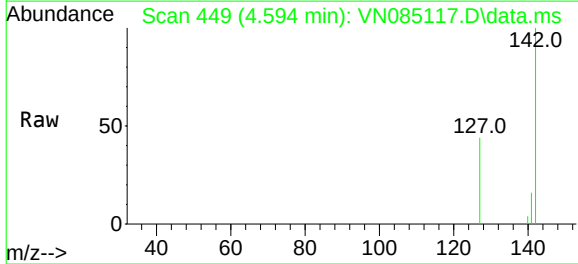
Tgt Ion: 96 Resp: 8113
Ion Ratio Lower Upper
96 100
61 143.4 123.0 184.4
98 56.2 49.1 73.7





#11
Methyl Iodide
Concen: 4.178 ug/l m
RT: 4.594 min Scan# 44
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

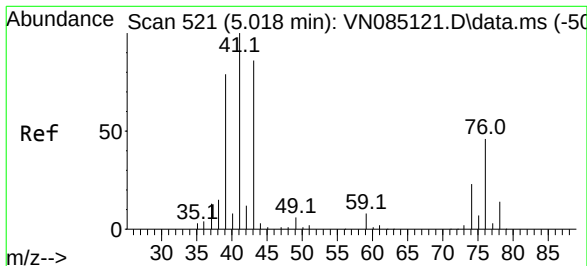
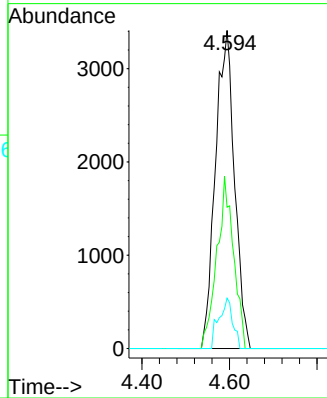
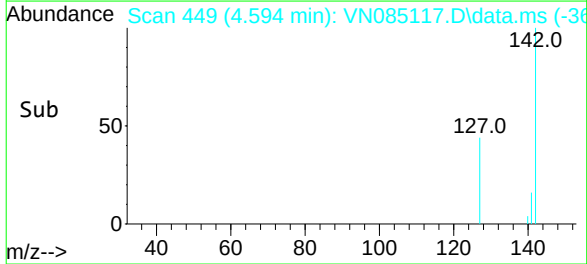
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 142 Resp: 10293
Ion Ratio Lower Upper
142 100
127 44.4 22.5 67.5
141 15.8 8.3 24.9

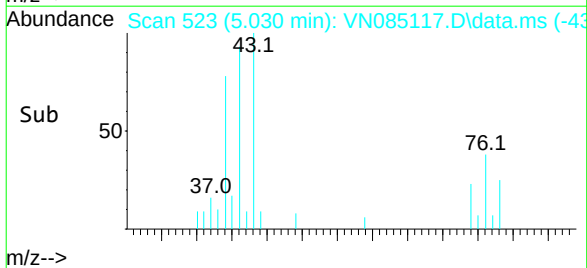
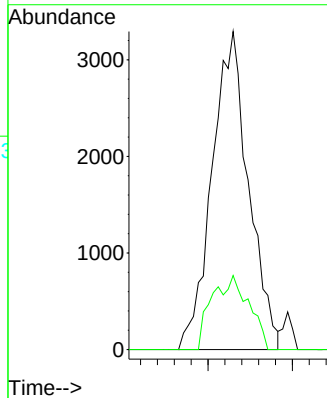
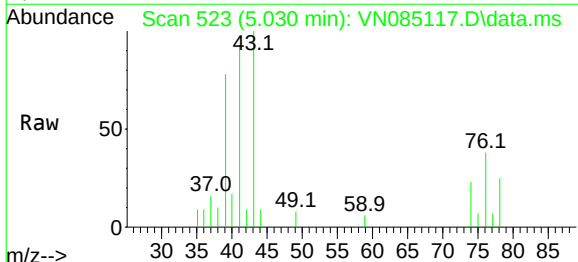
Manual Integrations
APPROVED

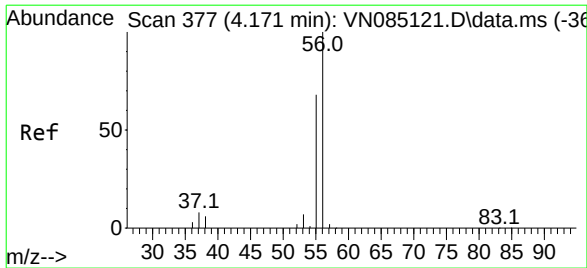
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#12
Methyl Acetate
Concen: 4.734 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 43 Resp: 9920
Ion Ratio Lower Upper
43 100
74 24.0 19.8 29.6





#13

Acrolein

Concen: 24.630 ug/l

RT: 4.189 min Scan# 38

Delta R.T. 0.006 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

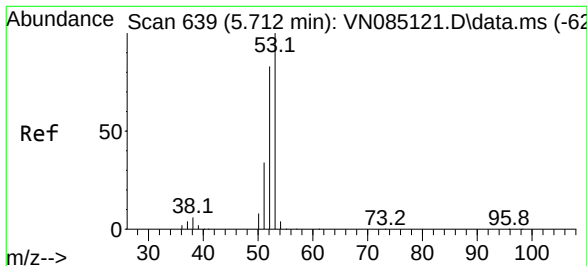
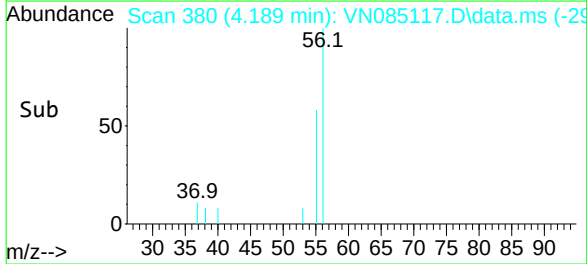
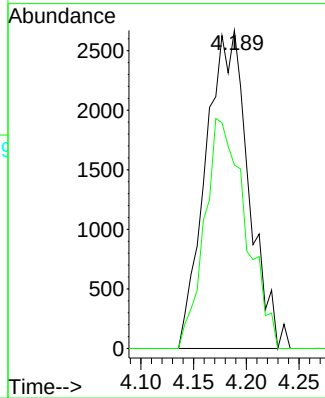
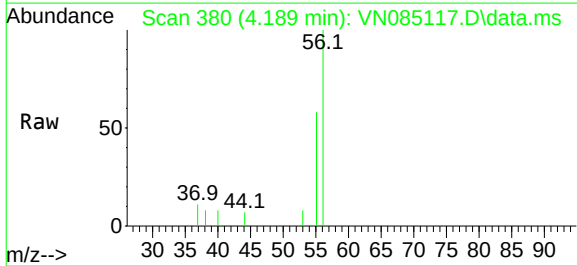
ClientSampleId :

VSTDICC005

Tgt	Ion: 56	Resp:	7501
Ion	Ratio	Lower	Upper
56	100		
55	63.5	59.4	89.0

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Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#14

Acrylonitrile

Concen: 22.606 ug/l m

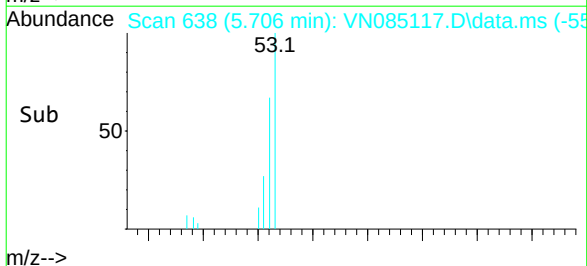
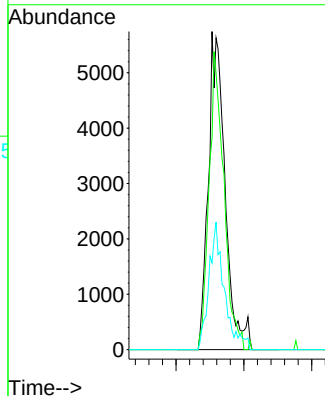
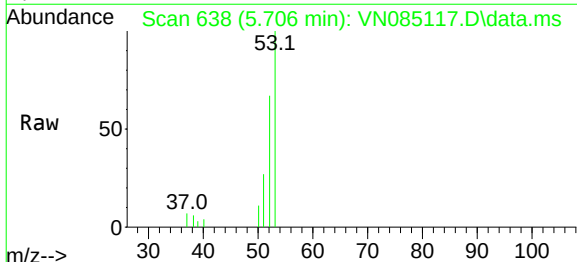
RT: 5.706 min Scan# 638

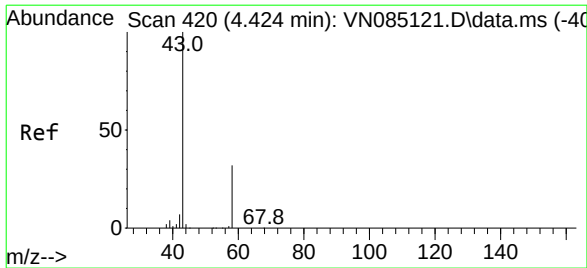
Delta R.T. -0.012 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Tgt	Ion: 53	Resp:	19671
Ion	Ratio	Lower	Upper
53	100		
52	82.5	42.9	128.5
51	33.7	17.2	51.5





#15

Acetone

Concen: 22.365 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 58 Resp: 5274

Ion Ratio Lower Upper

58 100

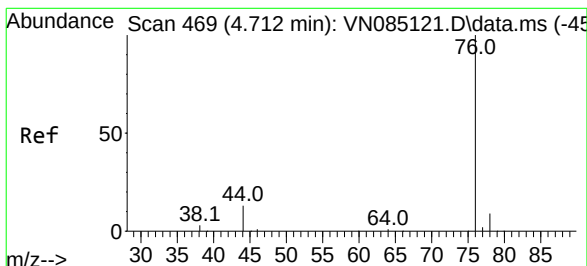
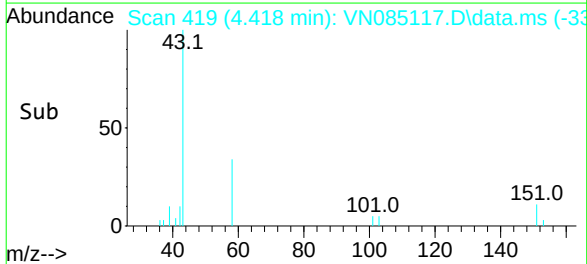
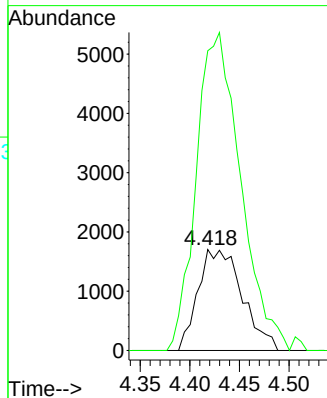
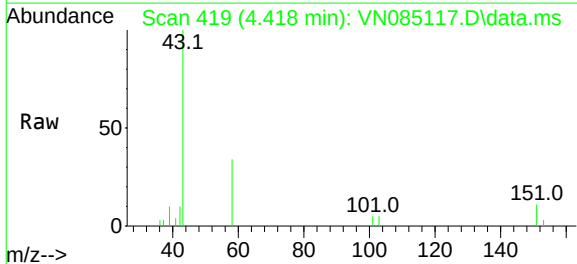
43 274.0 242.3 363.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#16

Carbon Disulfide

Concen: 4.923 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN085117.D

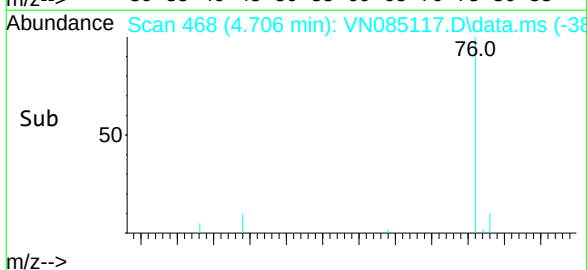
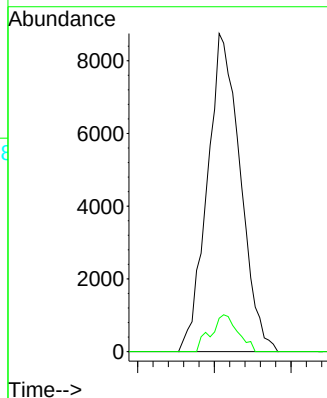
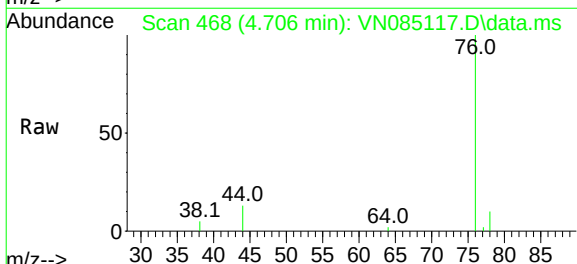
Acq: 06 Dec 2024 10:02

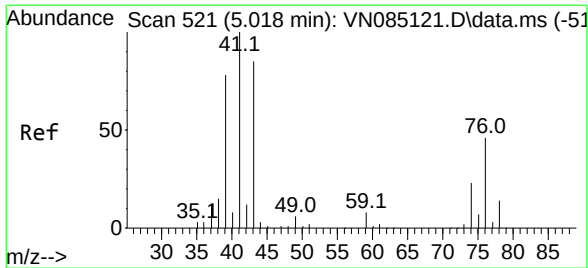
Tgt Ion: 76 Resp: 26140

Ion Ratio Lower Upper

76 100

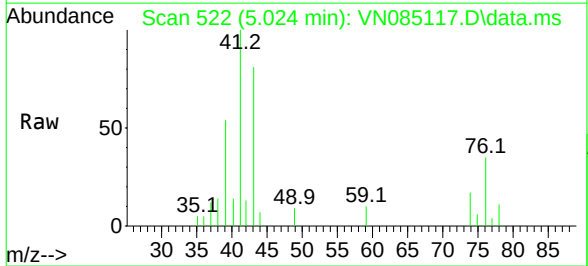
78 10.5 7.1 10.7





#17
 Allyl chloride
 Concen: 4.476 ug/l
 RT: 5.024 min Scan# 521
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

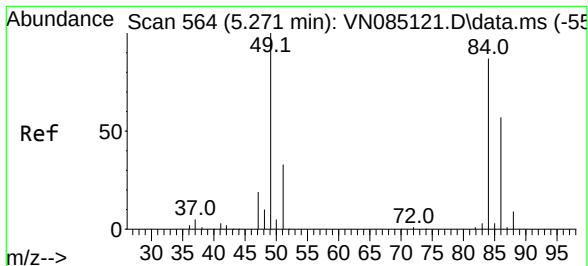
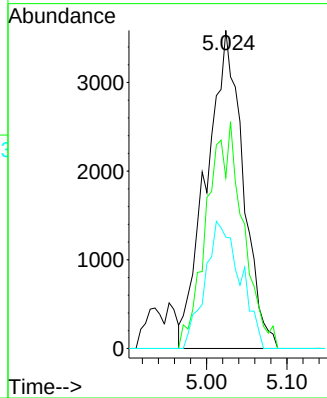
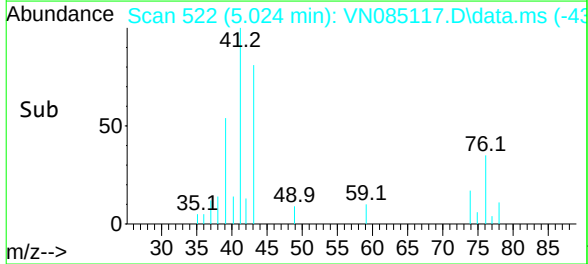
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005



Tgt Ion:	41	Resp:	11376
Ion	Ratio	Lower	Upper
41	100		
39	53.7	32.0	96.2
76	35.0	20.2	60.5

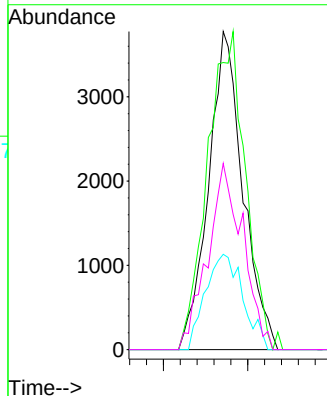
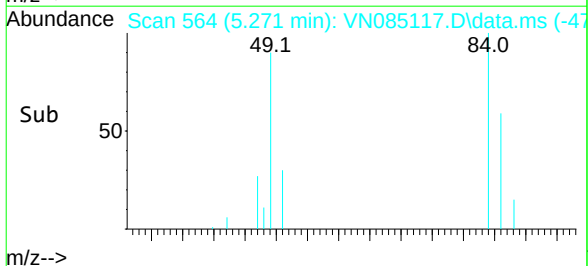
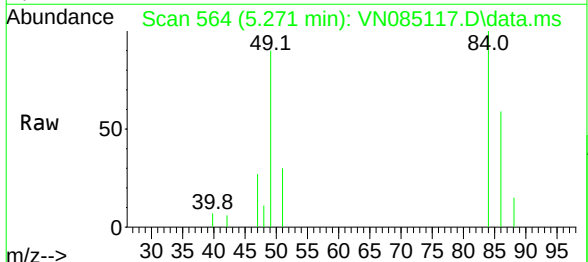
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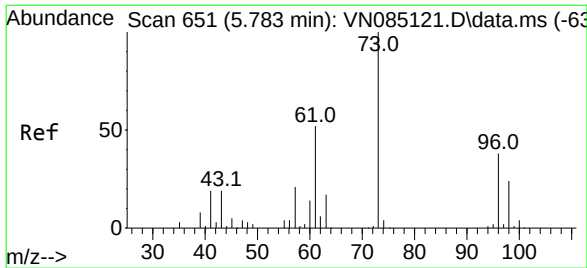
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#18
 Methylene Chloride
 Concen: 5.302 ug/l
 RT: 5.271 min Scan# 564
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Tgt Ion:	84	Resp:	10687
Ion	Ratio	Lower	Upper
84	100		
49	90.3	95.1	142.7#
51	30.0	27.4	41.0
86	58.5	50.9	76.3





#19

trans-1,2-Dichloroethene

Concen: 4.938 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN085117.D

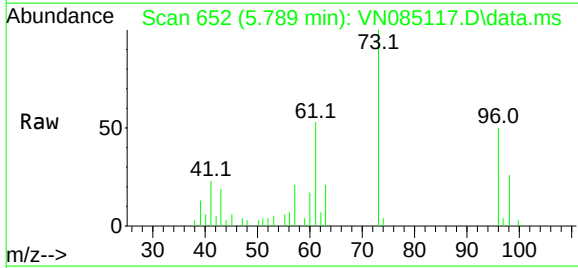
Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

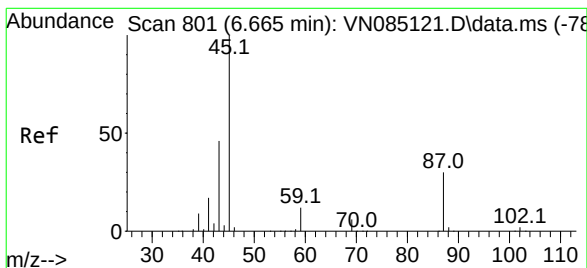
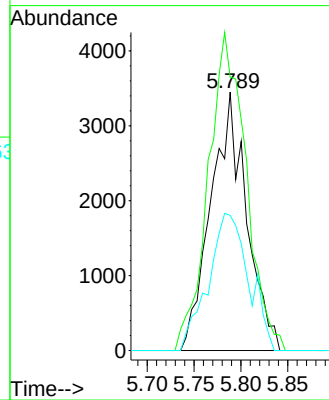
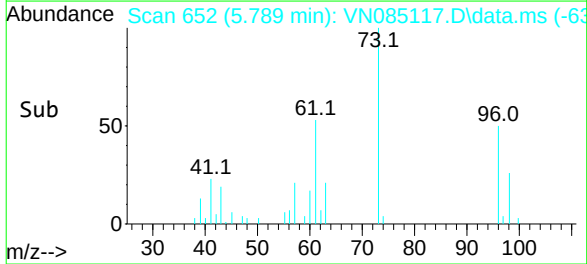


Tgt Ion:	96	Resp:	9118
Ion	Ratio	Lower	Upper
96	100		
61	99.9	100.4	150.6
98	52.3	52.6	79.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#20

Diisopropyl ether

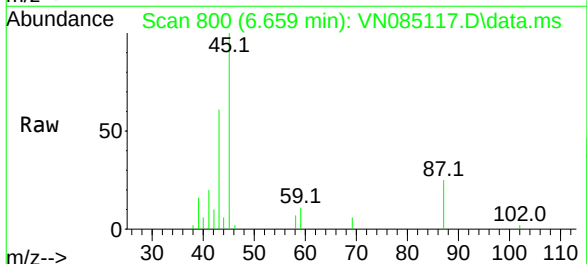
Concen: 4.484 ug/l m

RT: 6.659 min Scan# 800

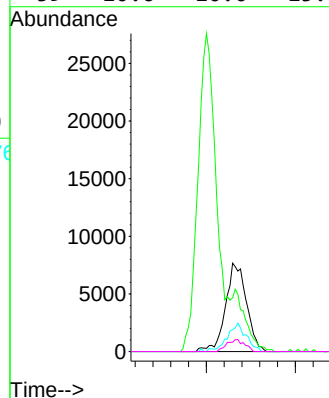
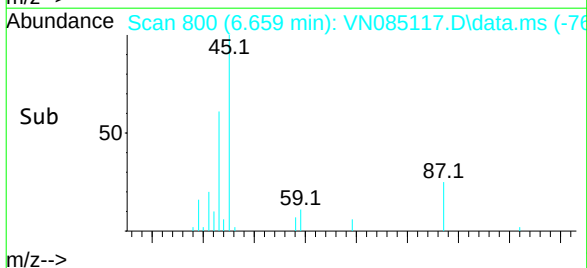
Delta R.T. -0.006 min

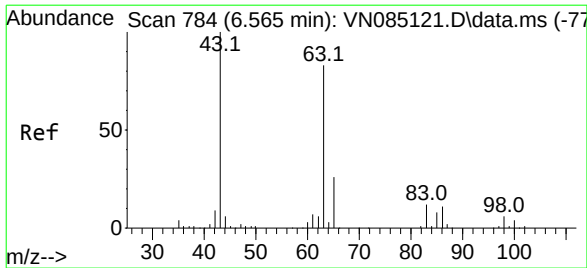
Lab File: VN085117.D

Acq: 06 Dec 2024 10:02



Tgt Ion:	45	Resp:	25012
Ion	Ratio	Lower	Upper
45	100		
43	60.8	41.9	62.9
87	24.8	24.1	36.1
59	10.6	10.0	15.0





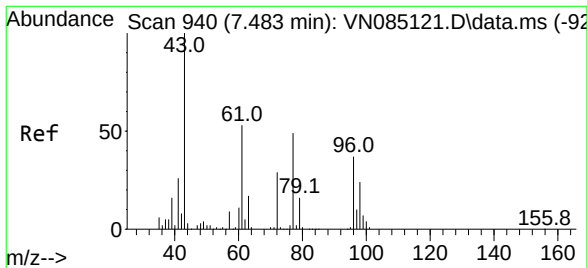
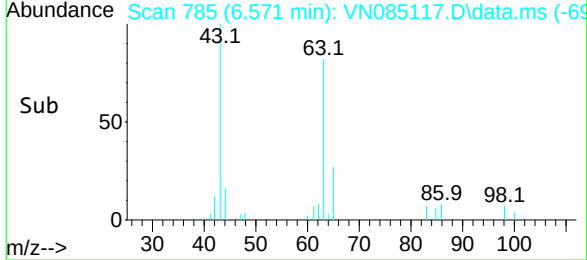
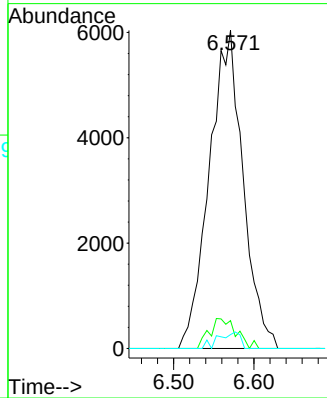
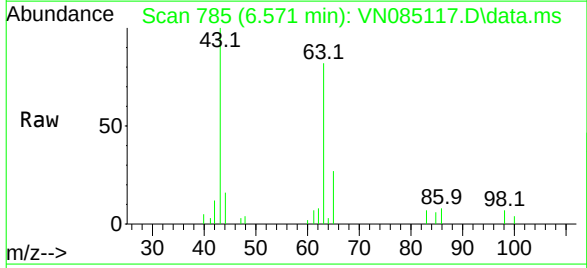
#21
1,1-Dichloroethane
Concen: 5.113 ug/l
RT: 6.571 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:	63	Resp:	17605
Ion	Ratio	Lower	Upper
63	100		
98	8.8	3.5	10.4
100	4.4	1.6	4.8

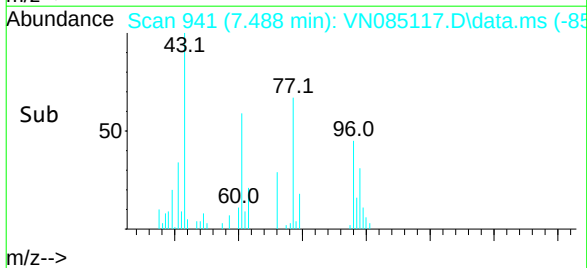
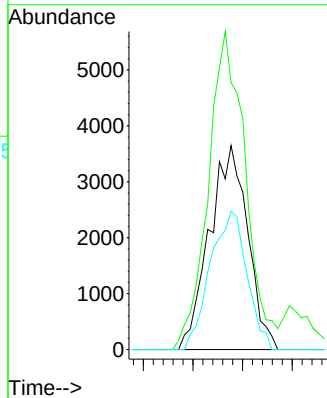
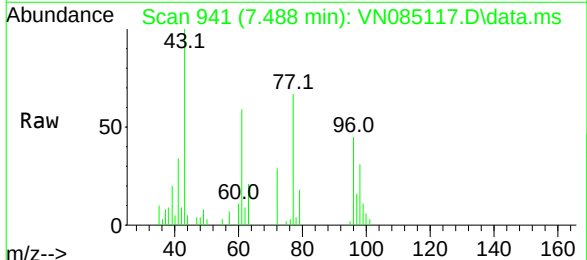
Manual Integrations
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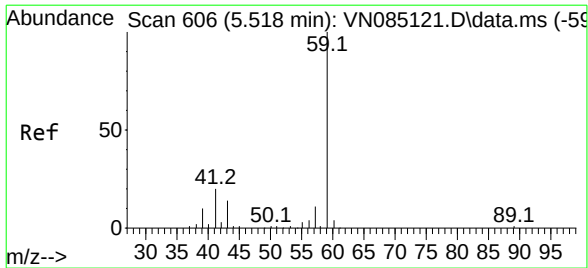
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#22
cis-1,2-Dichloroethene
Concen: 4.606 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:	96	Resp:	9776
Ion	Ratio	Lower	Upper
96	100		
61	151.1	115.9	173.9
98	65.0	51.8	77.8





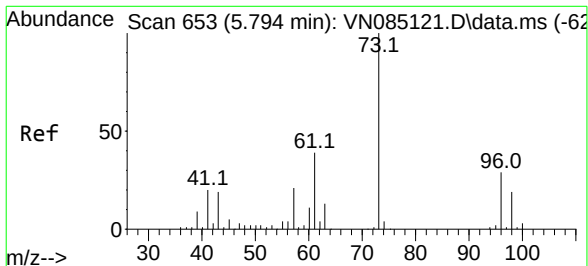
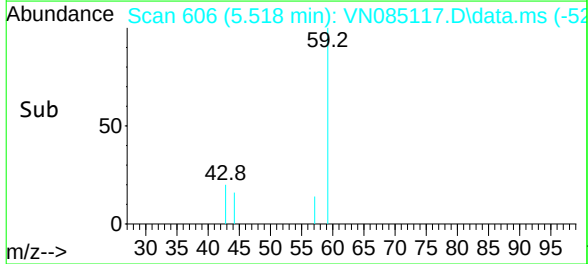
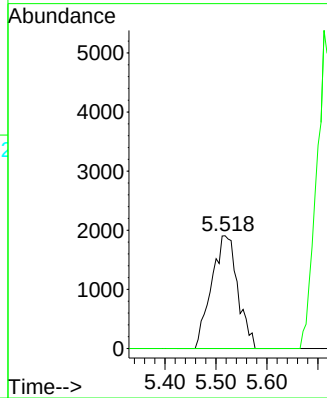
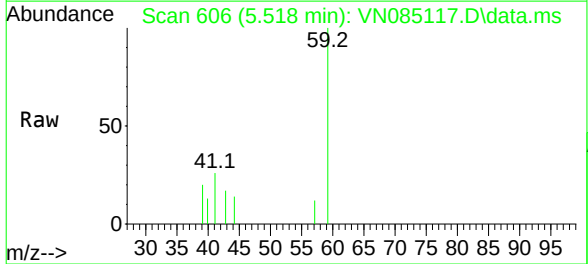
#23
tert-Butyl Alcohol
Concen: 21.825 ug/l m
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 6813
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

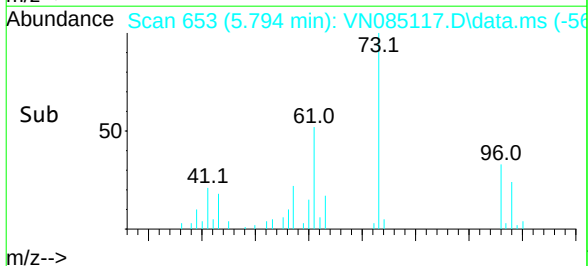
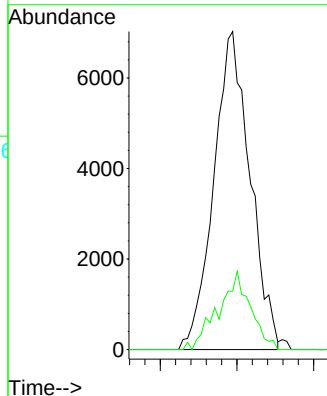
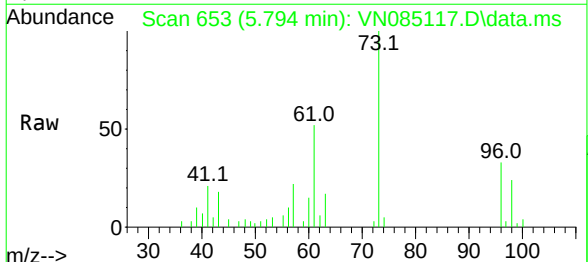
Manual Integrations
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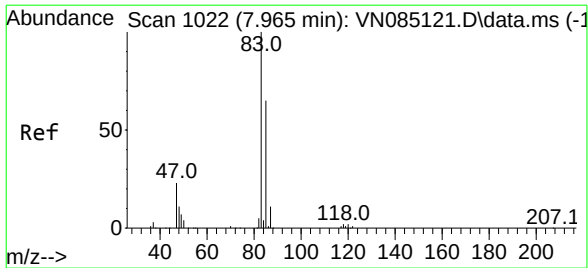
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#24
Methyl tert-Butyl Ether
Concen: 4.159 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

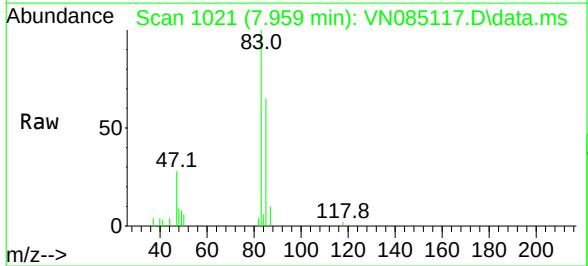
Tgt Ion: 73 Resp: 23064
Ion Ratio Lower Upper
73 100
43 21.2 8.7 13.1#





#25
Chloroform
Concen: 5.094 ug/l
RT: 7.959 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

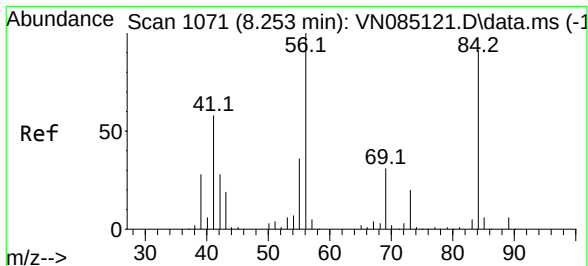
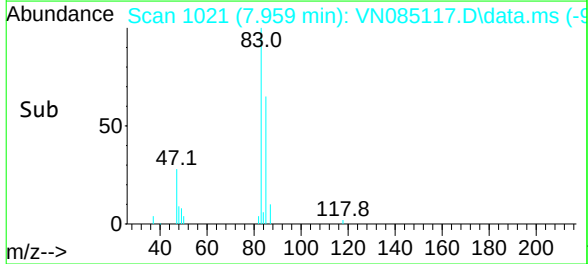
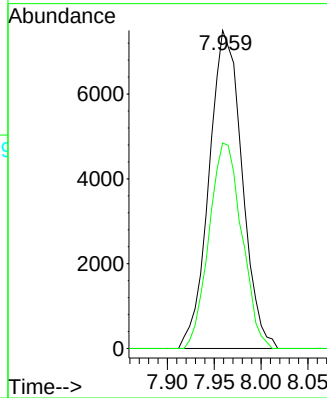
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 83 Resp: 18374
Ion Ratio Lower Upper
83 100
85 64.6 49.4 74.0

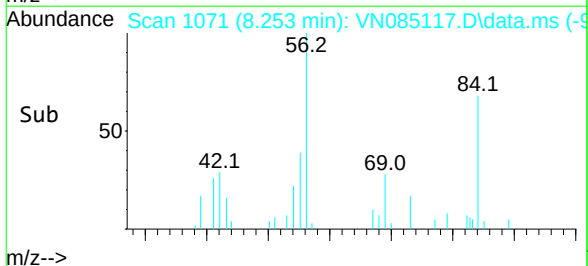
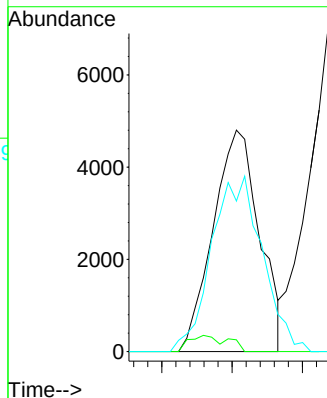
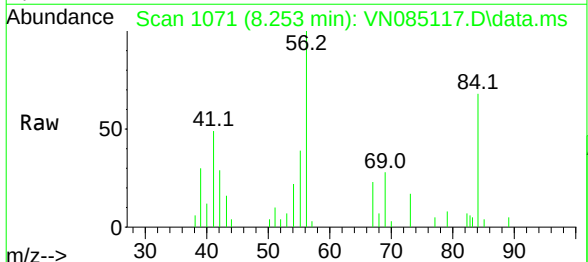
Manual Integrations
APPROVED

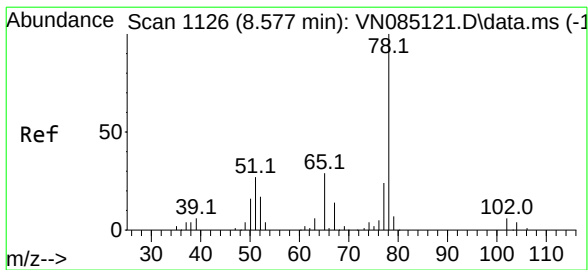
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#26
Cyclohexane
Concen: 3.885 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 56 Resp: 11013
Ion Ratio Lower Upper
56 100
89 1.7 19.5 29.3#
84 86.7 70.6 105.8





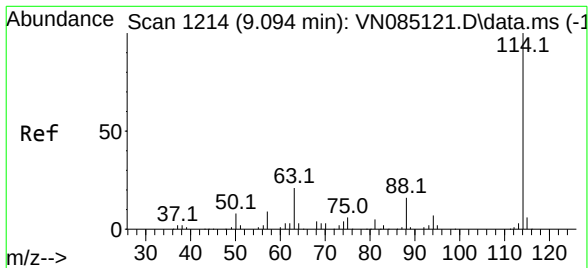
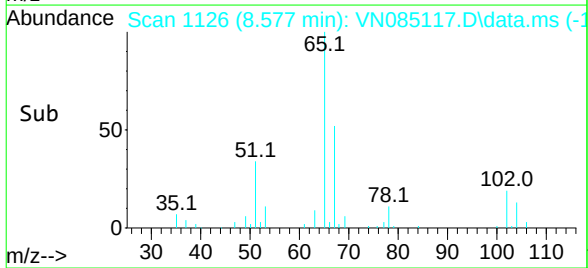
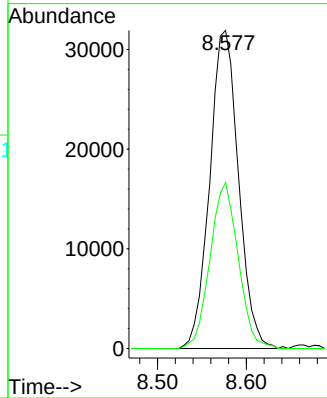
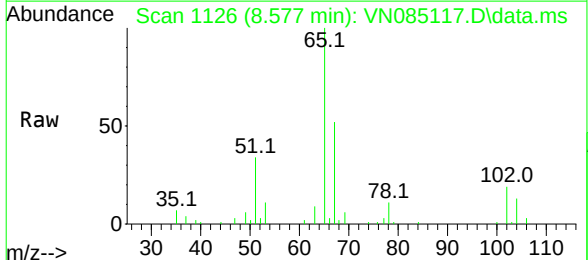
#27
1,2-Dichloroethane-d4
Concen: 31.025 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 71806
Ion Ratio Lower Upper
65 100
67 51.0 39.9 59.9

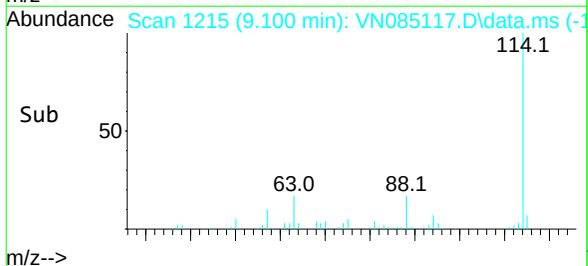
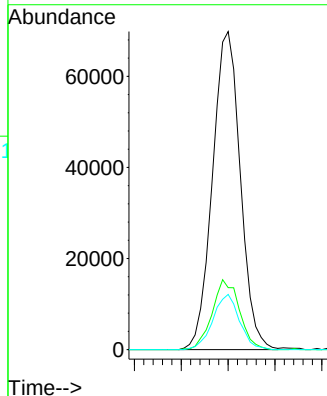
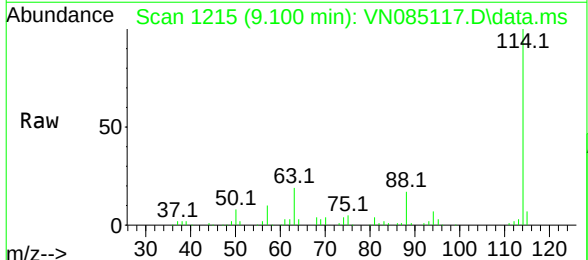
Manual Integrations
APPROVED

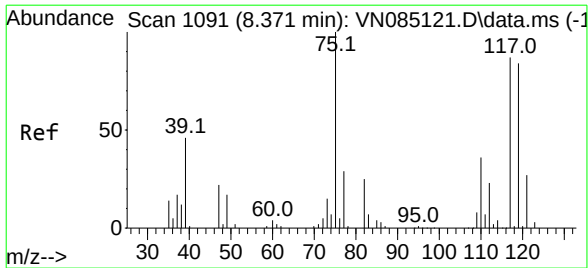
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:114 Resp: 144230
Ion Ratio Lower Upper
114 100
63 21.5 16.2 24.2
88 16.5 12.5 18.7





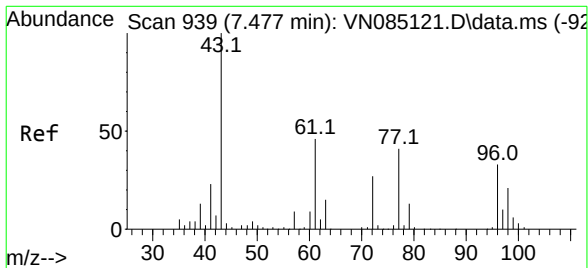
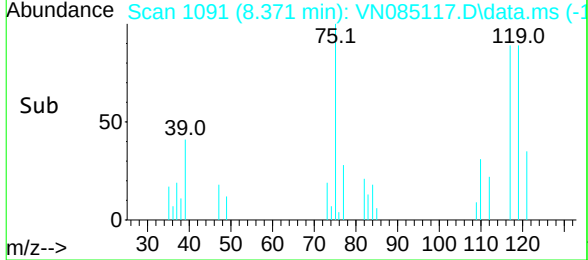
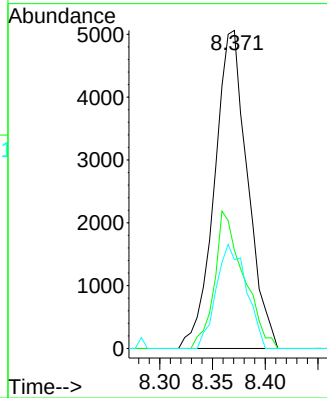
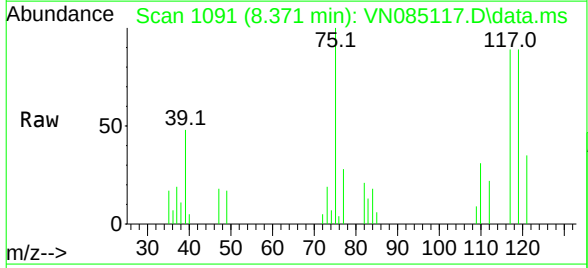
#29
1,1-Dichloropropene
Concen: 4.731 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.1	0.0	71.6
77	29.9	0.0	62.2

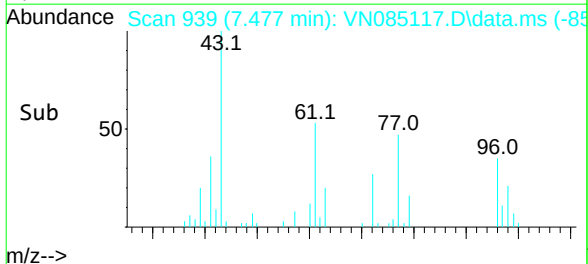
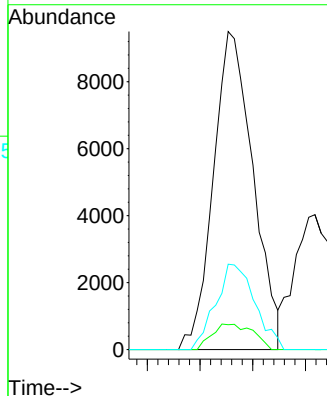
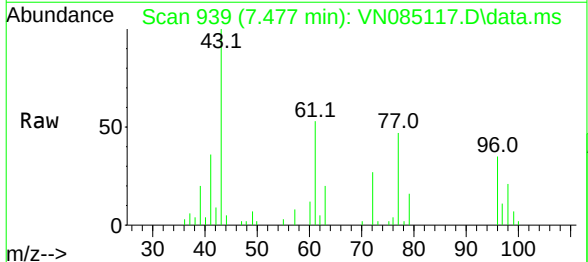
Manual Integrations
APPROVED

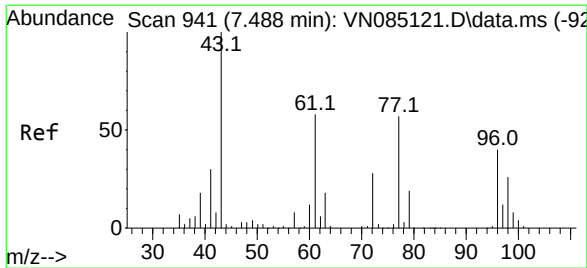
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#30
2-Butanone
Concen: 23.275 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion	Ratio	Lower	Upper
43	100		
57	5.7	6.9	10.3#
72	26.5	21.8	32.8





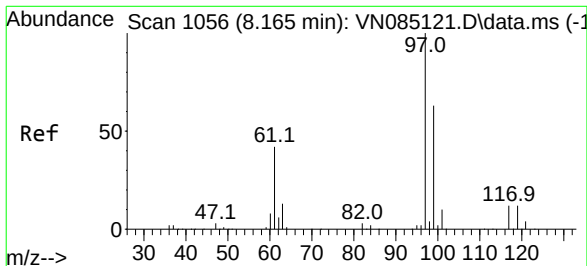
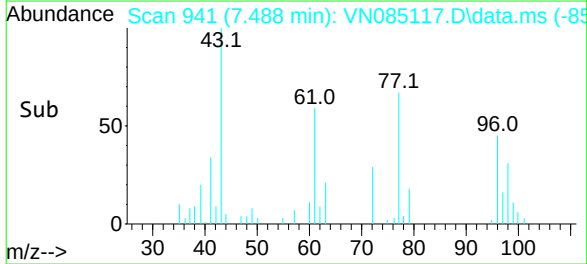
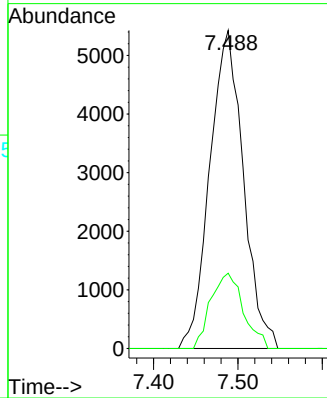
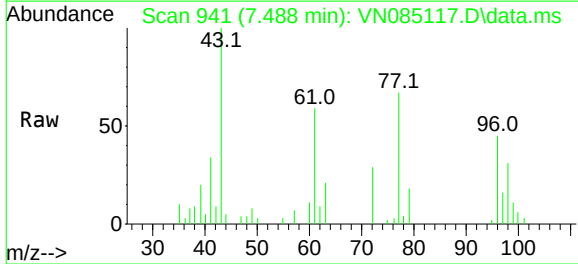
#31
2,2-Dichloropropane
Concen: 5.023 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 77 Resp: 14990
Ion Ratio Lower Upper
77 100
97 23.0 0.0 0.0#

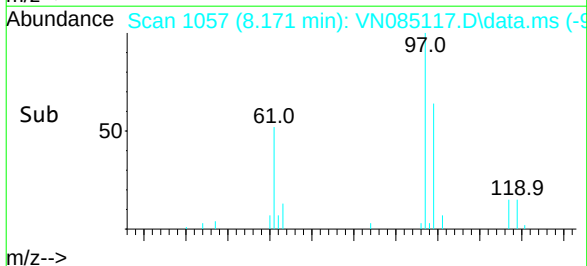
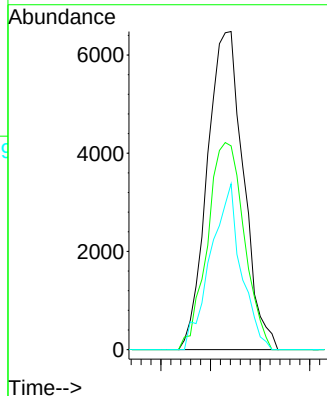
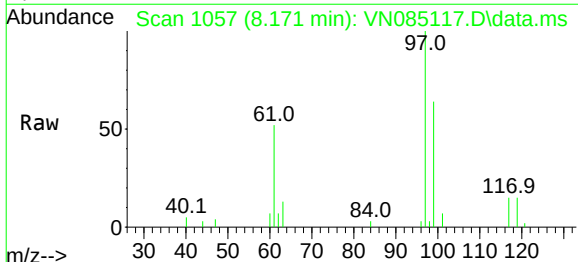
Manual Integrations
APPROVED

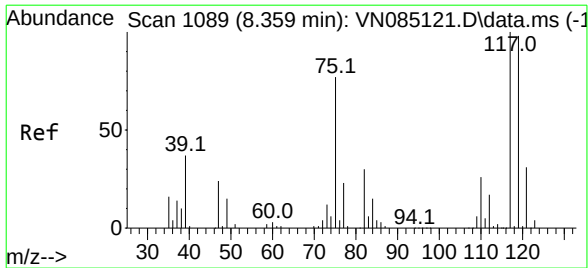
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#32
1,1,1-Trichloroethane
Concen: 5.216 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

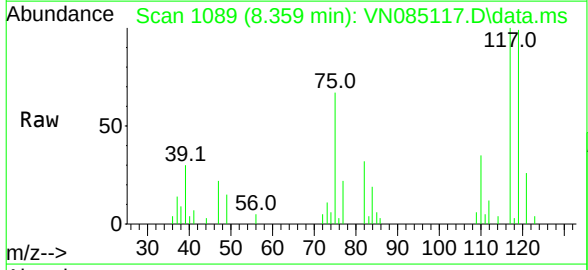
Tgt Ion: 97 Resp: 16430
Ion Ratio Lower Upper
97 100
99 66.0 50.8 76.2
61 44.0 32.7 49.1





#33
Carbon Tetrachloride
Concen: 5.233 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

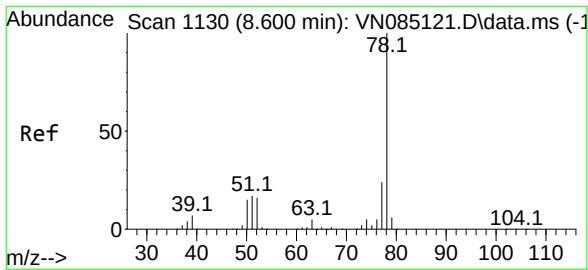
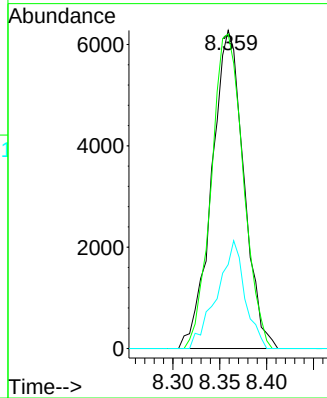
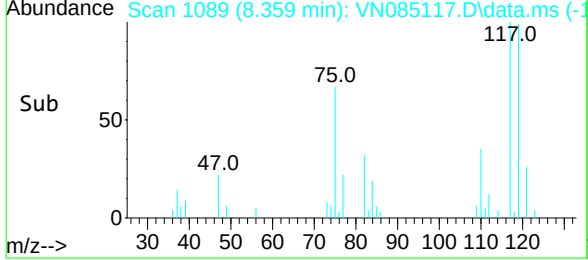
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



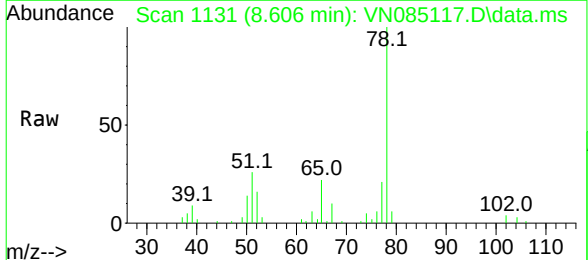
Tgt Ion: 117 Resp: 14874
Ion Ratio Lower Upper
117 100
119 98.9 81.6 122.4
121 26.4 26.5 39.7#

Manual Integrations
APPROVED

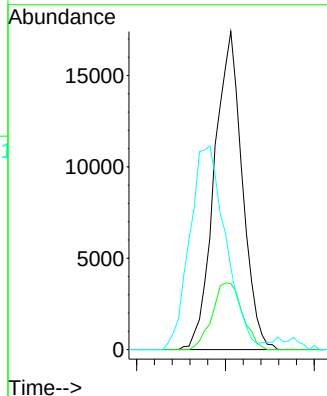
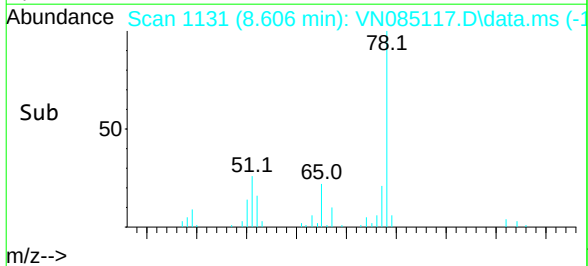
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

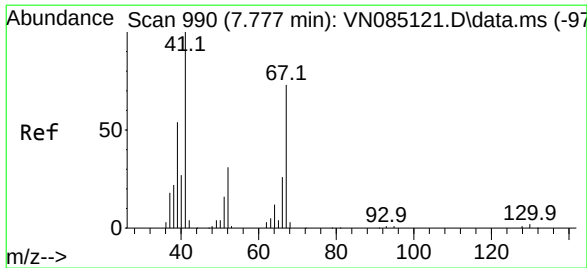


#34
Benzene
Concen: 5.199 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02



Tgt Ion: 78 Resp: 38013
Ion Ratio Lower Upper
78 100
77 20.8 18.0 27.0
51 21.8 12.4 18.6#





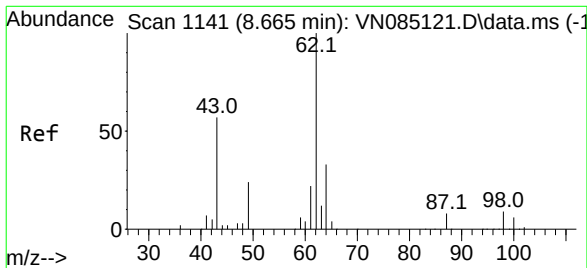
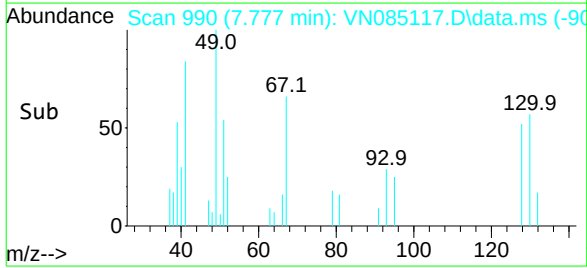
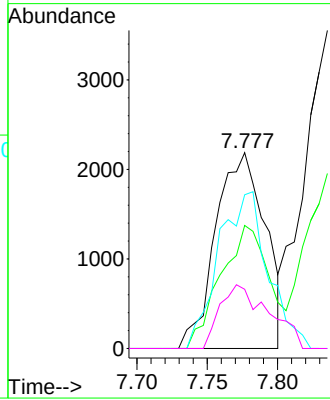
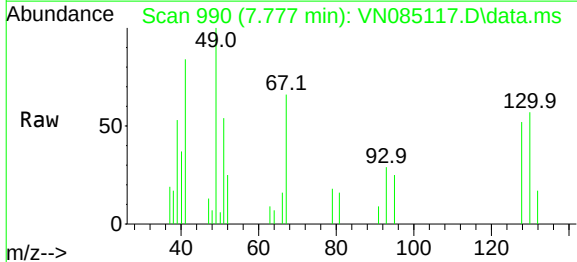
#35
Methacrylonitrile
Concen: 4.455 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 41	Resp: 5355
Ion Ratio	Lower Upper
41 100	
39 62.8	24.4 73.2
67 78.5	37.0 110.9
52 30.2	12.4 37.2

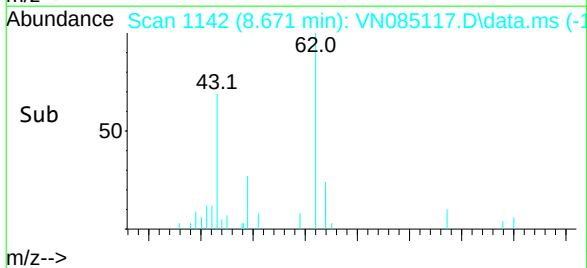
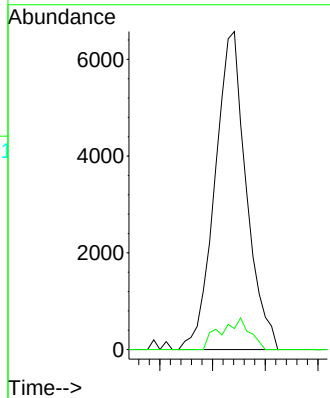
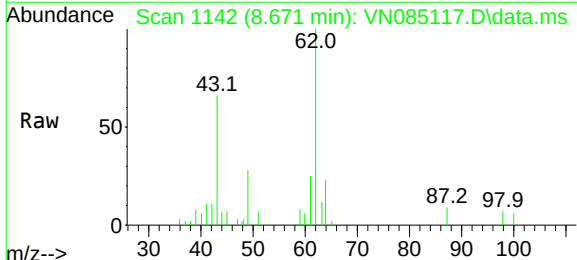
Manual Integrations
APPROVED

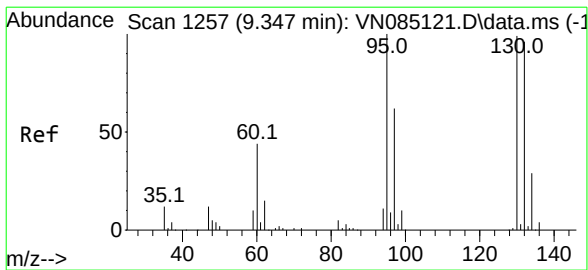
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#36
1,2-Dichloroethane
Concen: 5.451 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

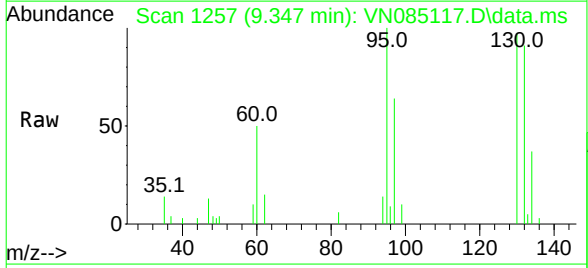
Tgt Ion: 62	Resp: 13568
Ion Ratio	Lower Upper
62 100	
98 6.4	7.3 10.9#





#37
Trichloroethene
Concen: 5.067 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

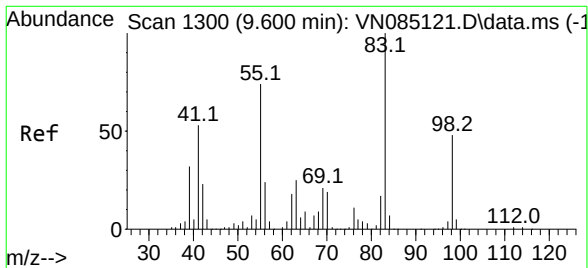
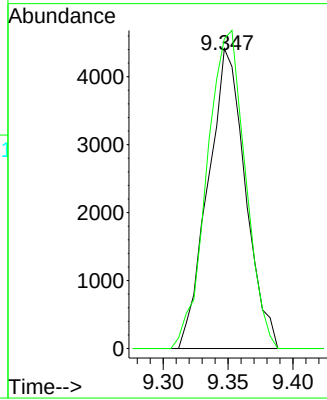
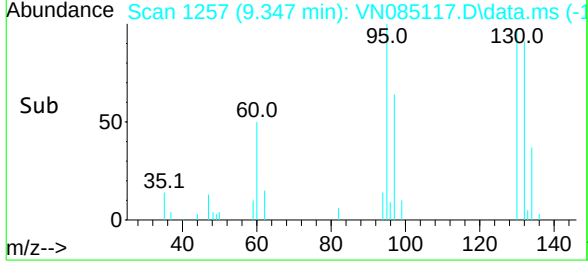
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



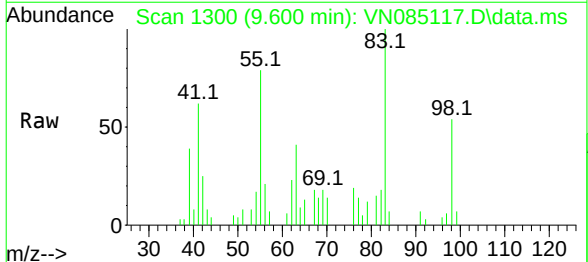
Tgt Ion:130 Resp: 8822
Ion Ratio Lower Upper
130 100
95 103.3 76.2 114.4

Manual Integrations
APPROVED

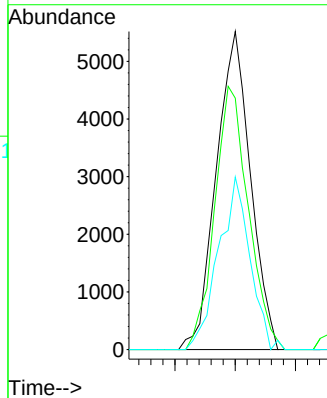
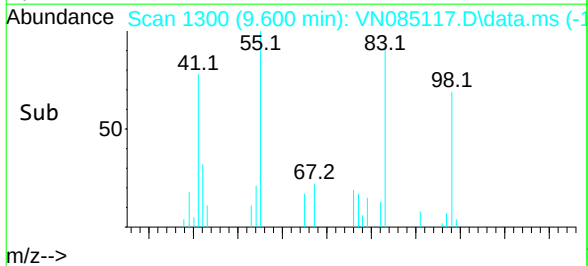
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

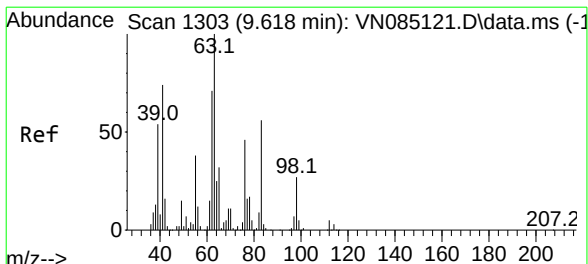


#38
Methylcyclohexane
Concen: 4.304 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02



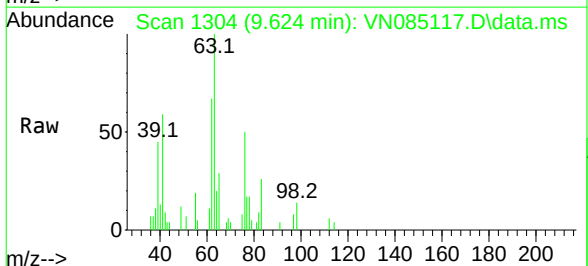
Tgt Ion: 83 Resp: 10891
Ion Ratio Lower Upper
83 100
55 81.5 41.4 124.4
98 49.3 25.7 77.1





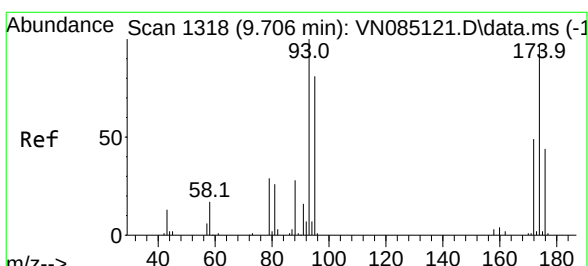
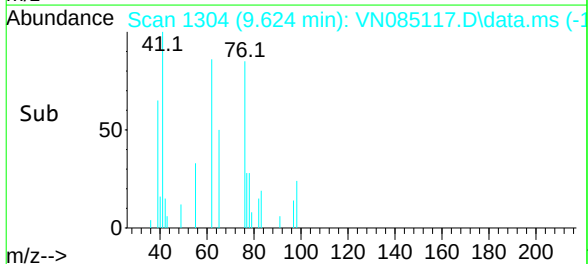
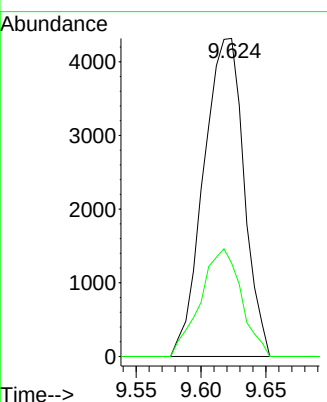
#39
 1,2-Dichloropropane
 Concen: 5.273 ug/l
 RT: 9.624 min Scan# 1304
 Delta R.T. 0.006 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Instrument : MSVOA_N
 ClientSampleId : VSTDICC005



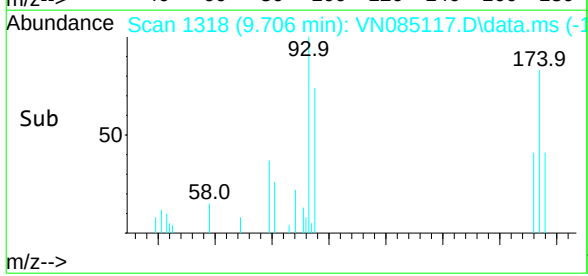
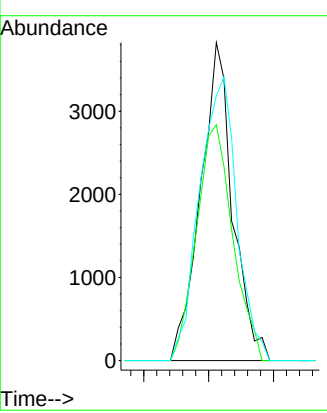
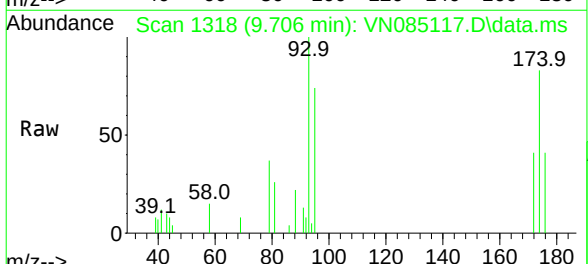
Tgt Ion:	63	Resp:	9337
Ion Ratio	Lower	Upper	
63	100		
65	29.4	23.4	35.0

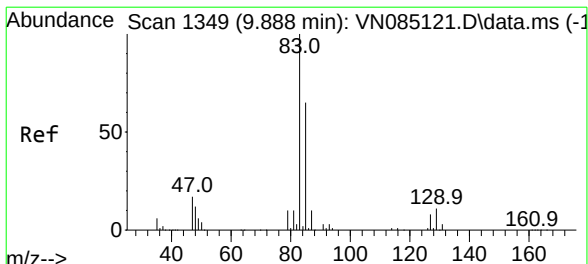
Manual Integrations
APPROVED
 Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#40
 Dibromomethane
 Concen: 5.194 ug/l
 RT: 9.706 min Scan# 1318
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Tgt Ion:	93	Resp:	6598
Ion Ratio	Lower	Upper	
93	100		
95	83.4	0.0	169.4
174	103.1	0.0	189.8





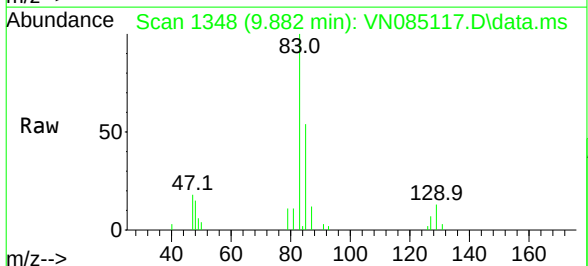
#41
 Bromodichloromethane
 Concen: 5.278 ug/l
 RT: 9.882 min Scan# 1349
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

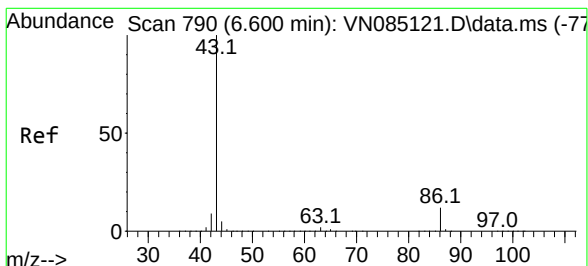
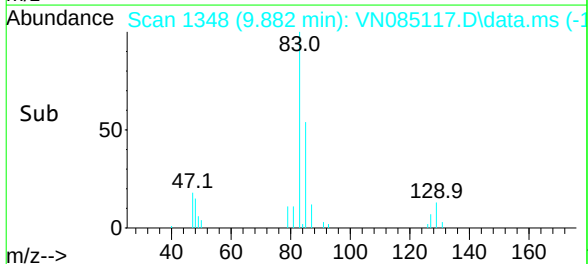
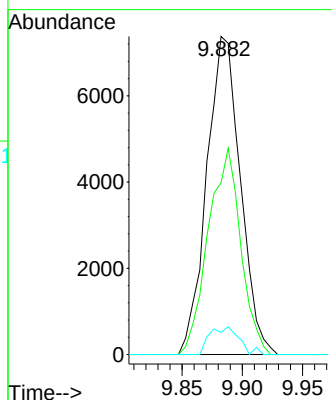
VSTDICC005



Tgt Ion:	83	Resp:	14332
Ion	Ratio	Lower	Upper
83	100		
85	54.0	54.6	81.8#
127	7.0	7.0	10.6#

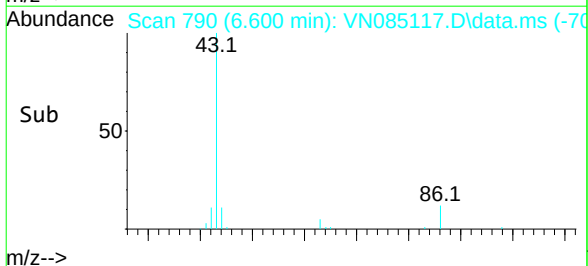
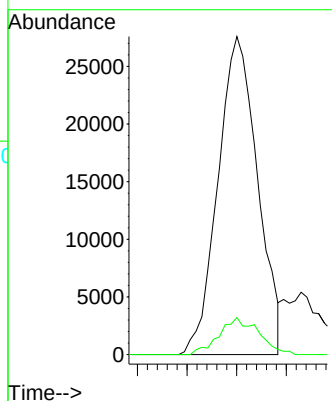
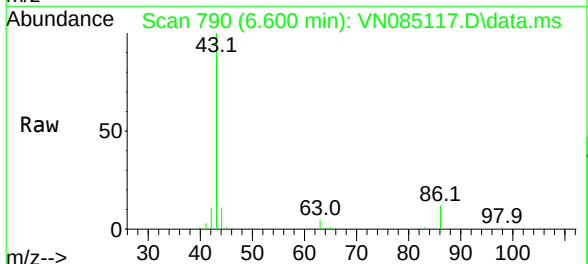
Manual Integrations
 APPROVED

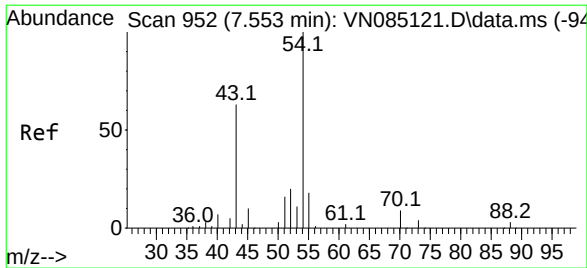
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#42
 Vinyl Acetate
 Concen: 20.505 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Tgt Ion:	43	Resp:	76634
Ion	Ratio	Lower	Upper
43	100		
86	5.7	9.2	13.8#





#43

Ethyl Acetate

Concen: 4.927 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 10470

Ion Ratio Lower Upper

43 100

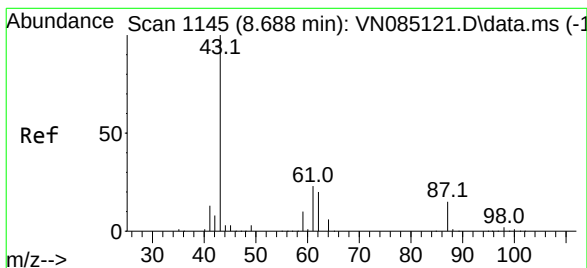
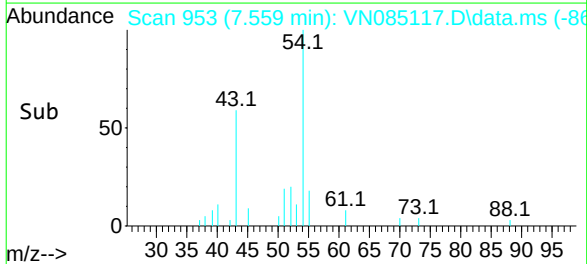
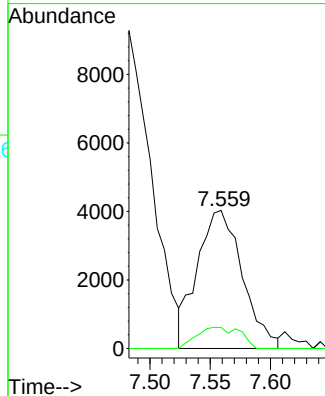
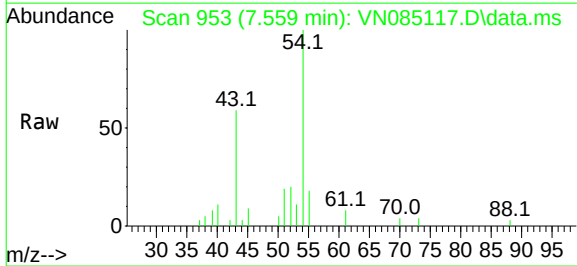
45 10.6 13.3 19.9#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#44

Isopropyl Acetate

Concen: 4.817 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN085117.D

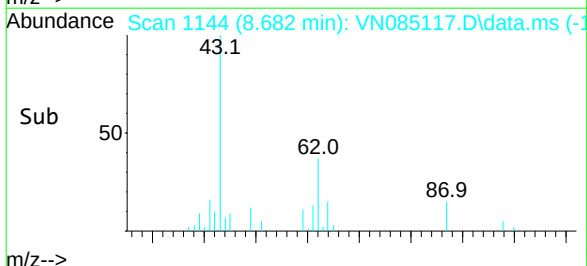
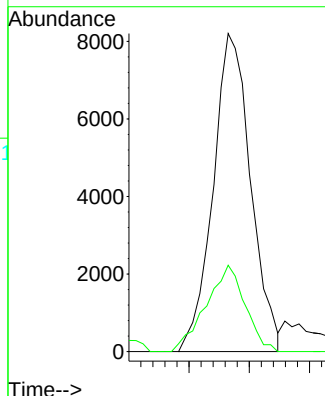
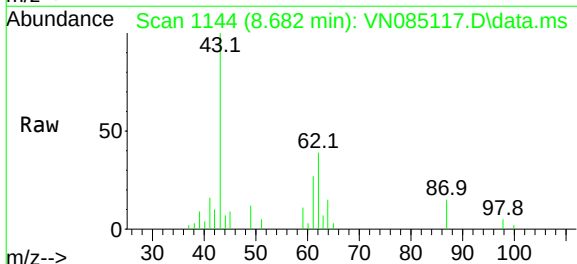
Acq: 06 Dec 2024 10:02

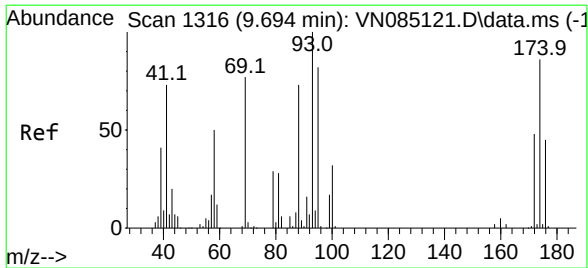
Tgt Ion: 43 Resp: 17789

Ion Ratio Lower Upper

43 100

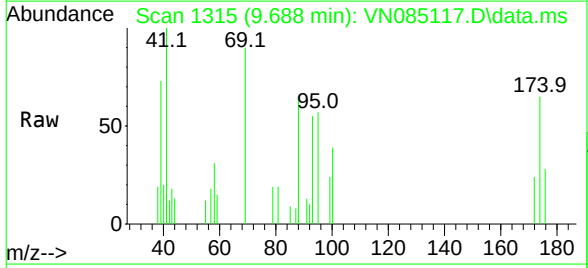
61 28.1 21.5 32.3





#45
1,4-Dioxane
Concen: 85.662 ug/l
RT: 9.688 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

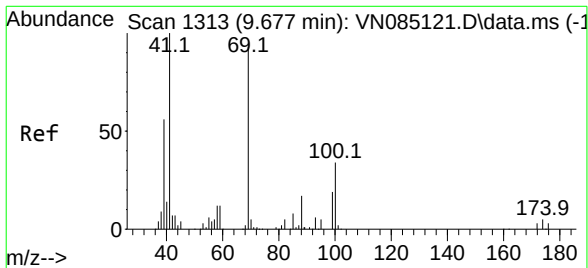
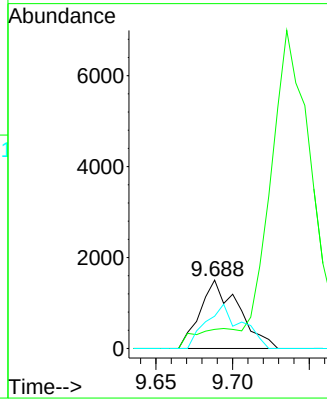
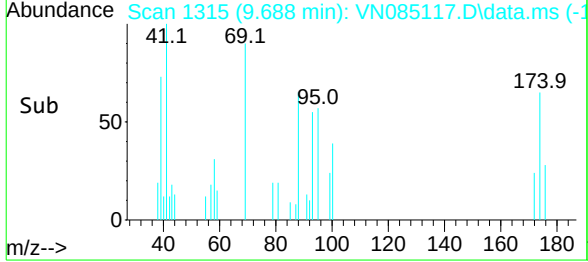
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



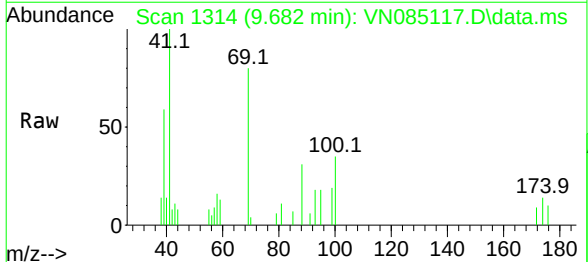
Tgt Ion: 88 Resp: 2638
Ion Ratio Lower Upper
88 100
43 24.8 21.7 32.5
58 42.1 52.6 79.0#

Manual Integrations
APPROVED

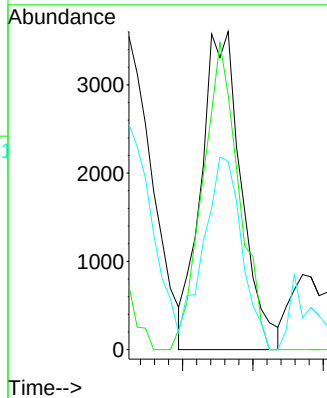
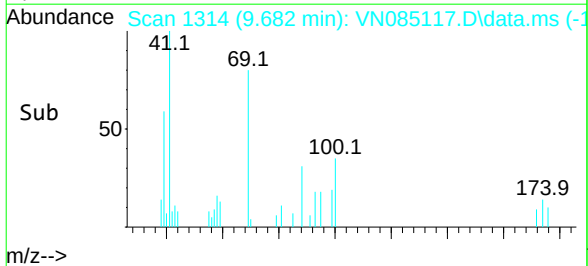
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

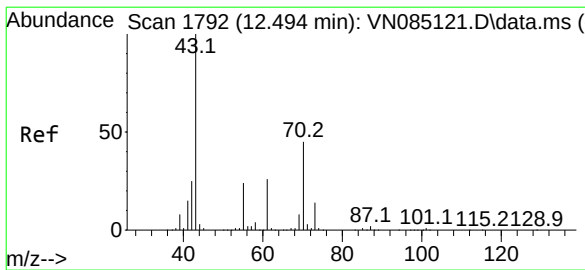


#46
Methyl methacrylate
Concen: 4.258 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02



Tgt Ion: 41 Resp: 7196
Ion Ratio Lower Upper
41 100
69 86.1 46.7 140.0
39 63.6 28.5 85.5





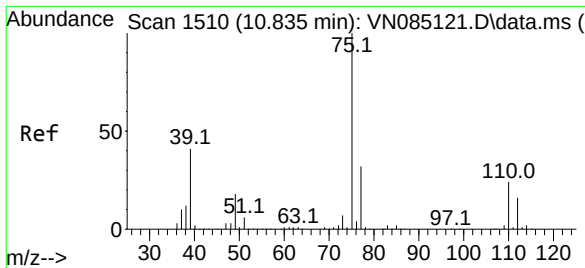
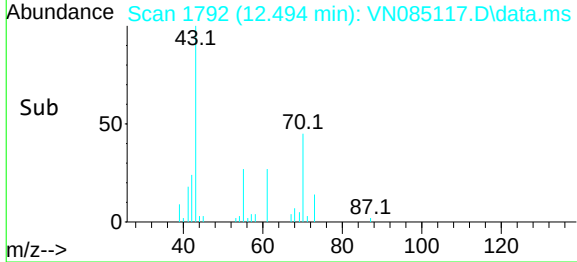
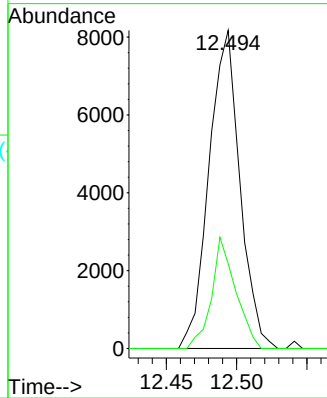
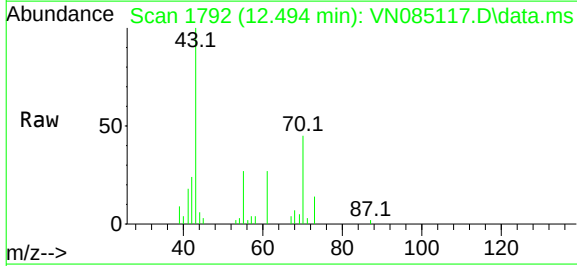
#47
n-amy1 Acetate
Concen: 4.021 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 12494
Ion Ratio Lower Upper
43 100
55 27.3 23.3 34.9

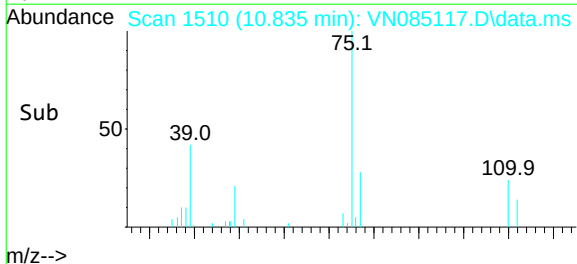
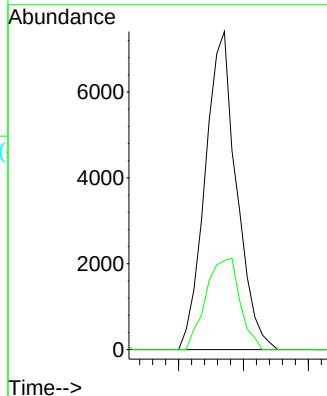
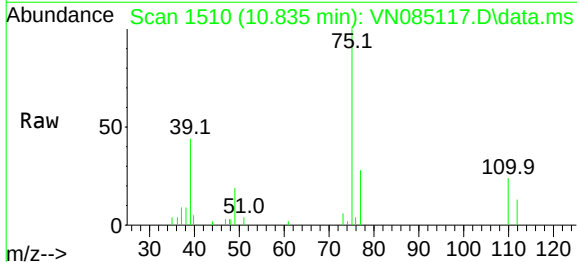
Manual Integrations
APPROVED

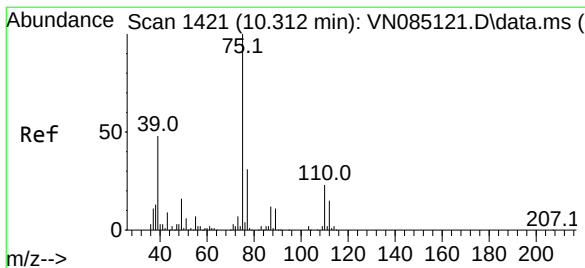
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#48
t-1,3-Dichloropropene
Concen: 4.675 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 75 Resp: 12463
Ion Ratio Lower Upper
75 100
77 28.0 25.5 38.3





#49

cis-1,3-Dichloropropene

Concen: 4.809 ug/l

RT: 10.306 min Scan# 14

Delta R.T. -0.006 min

Lab File: VN085117.D

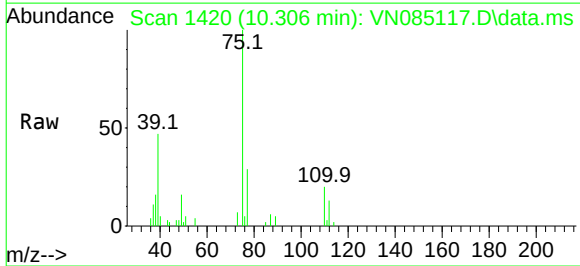
Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

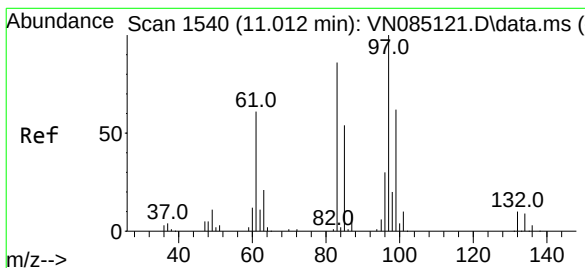
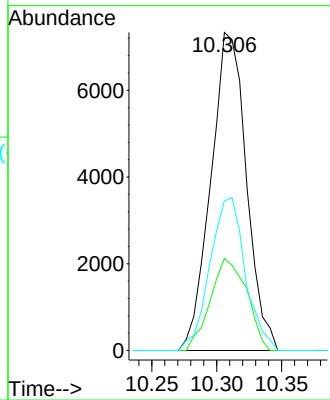
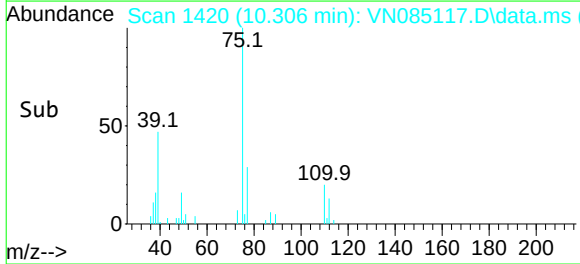


Tgt Ion:	75	Resp:	13955
Ion	Ratio	Lower	Upper
75	100		
77	28.9	23.8	35.6
39	47.0	37.3	55.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#50

1,1,2-Trichloroethane

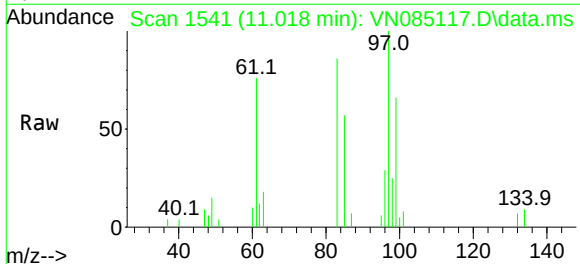
Concen: 5.429 ug/l

RT: 11.018 min Scan# 1541

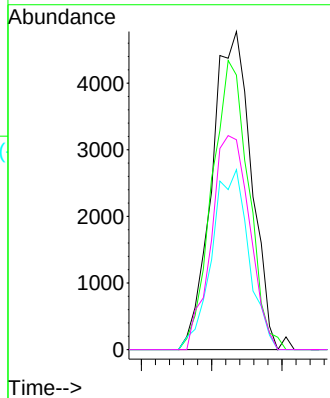
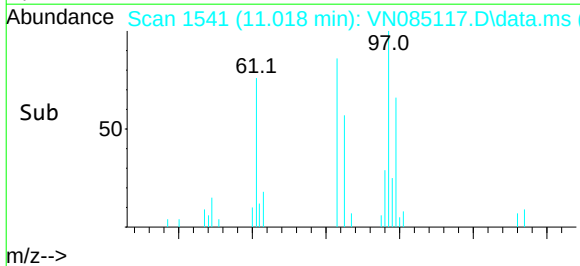
Delta R.T. 0.006 min

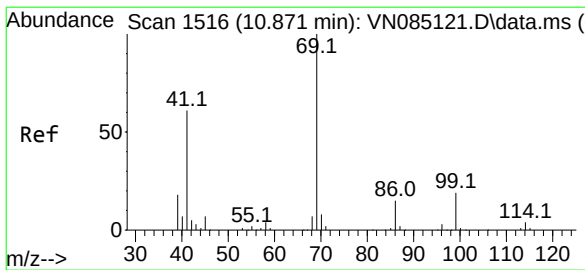
Lab File: VN085117.D

Acq: 06 Dec 2024 10:02



Tgt Ion:	97	Resp:	9292
Ion	Ratio	Lower	Upper
97	100		
83	86.3	65.8	98.8
85	56.6	40.8	61.2
99	66.0	44.0	66.0





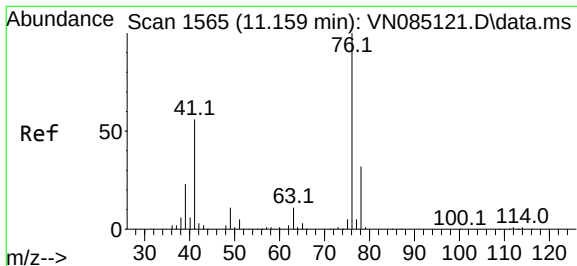
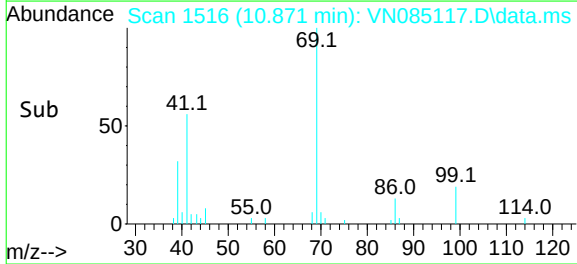
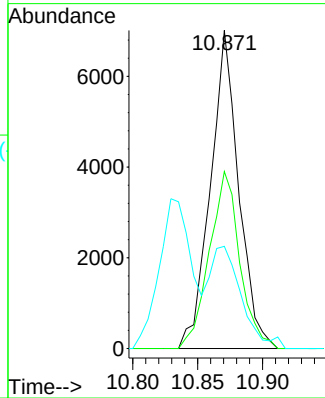
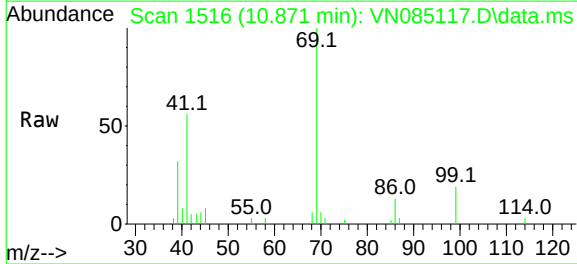
#51
Ethyl methacrylate
Concen: 4.068 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
69	100		
41	55.7	32.1	96.3
39	28.5	18.8	56.4

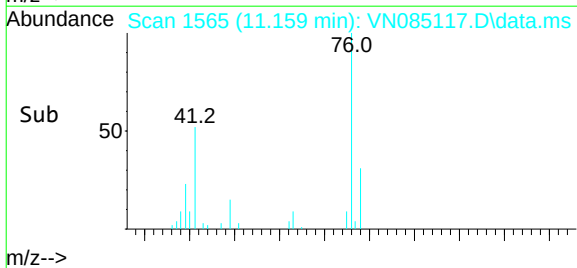
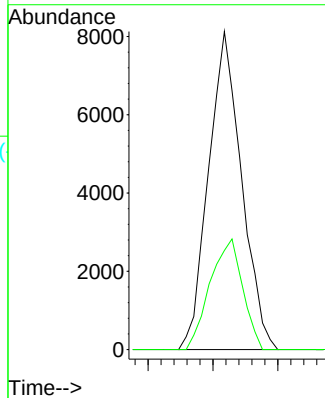
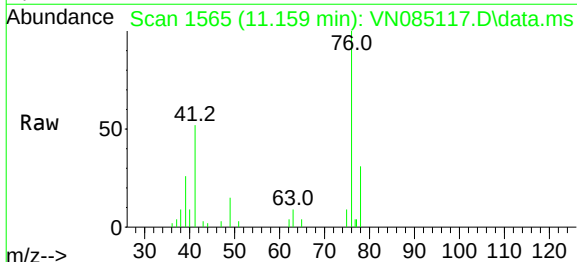
Manual Integrations
APPROVED

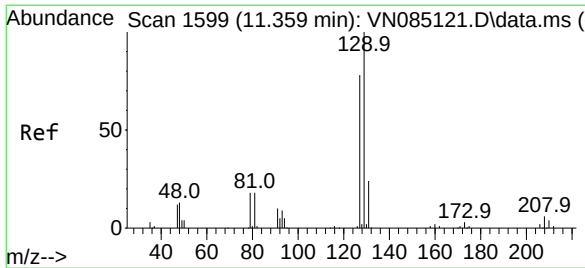
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#52
1,3-Dichloropropane
Concen: 5.019 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion	Ratio	Lower	Upper
76	100		
78	34.1	0.0	65.6





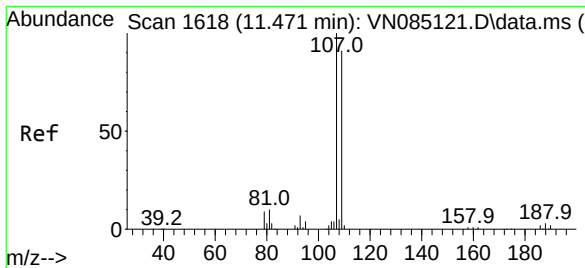
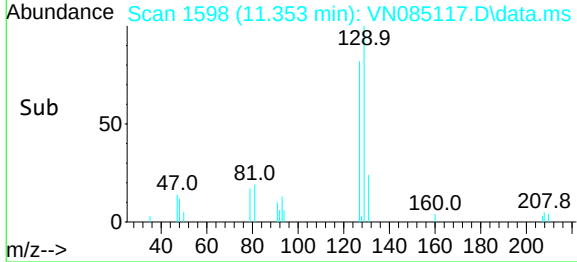
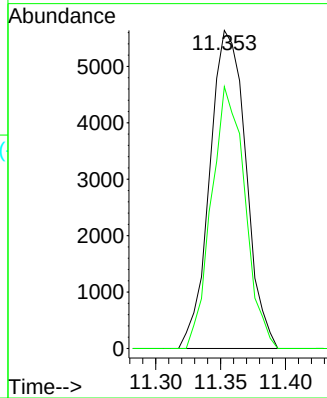
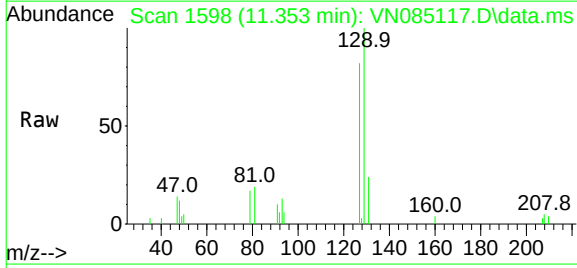
#53
Dibromochloromethane
Concen: 5.246 ug/l
RT: 11.353 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:129 Resp: 10942
Ion Ratio Lower Upper
129 100
127 76.1 37.3 111.9

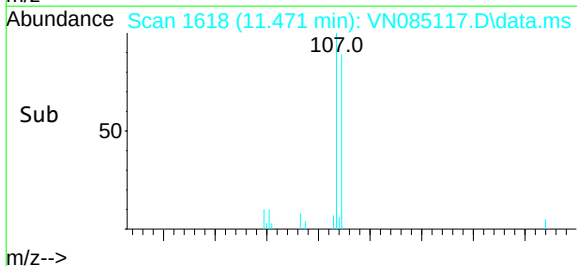
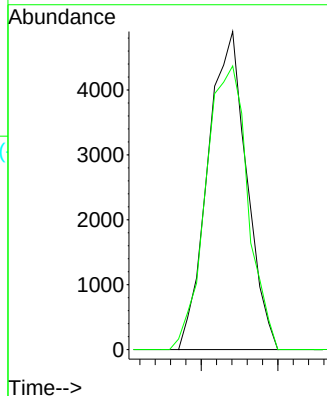
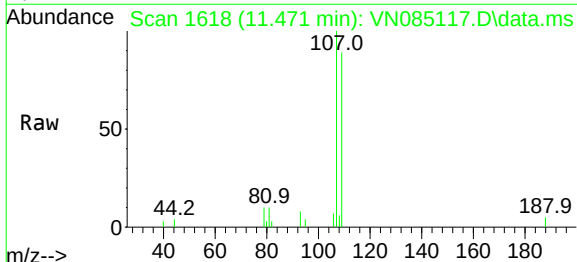
Manual Integrations
APPROVED

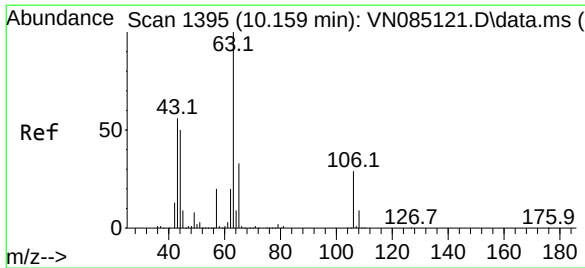
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#54
1,2-Dibromoethane
Concen: 4.988 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

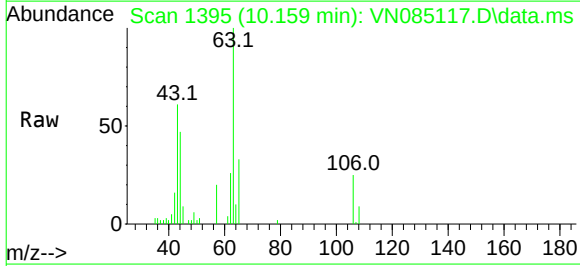
Tgt Ion:107 Resp: 8602
Ion Ratio Lower Upper
107 100
109 96.6 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 19.844 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

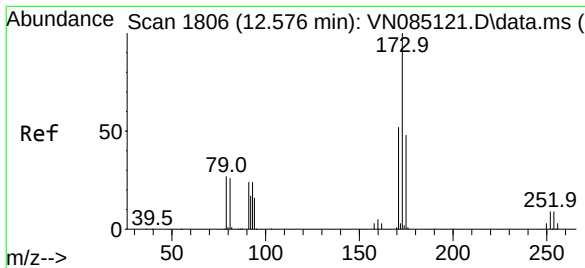
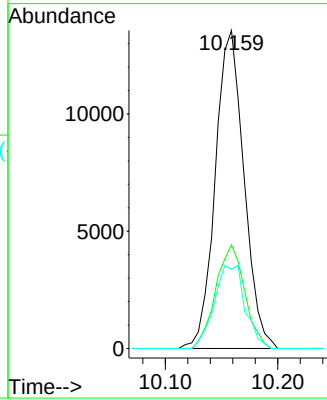
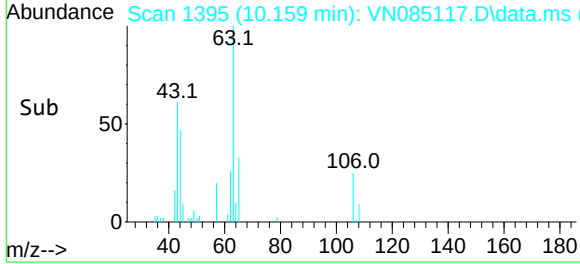
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 63 Resp: 23999
Ion Ratio Lower Upper
63 100
65 33.0 25.9 38.9
106 28.1 23.5 35.3

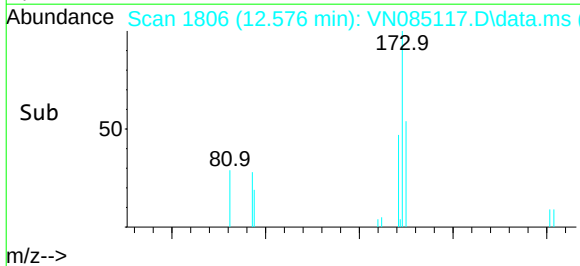
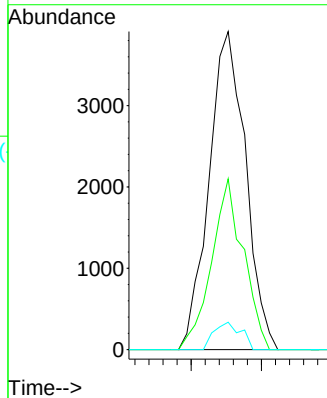
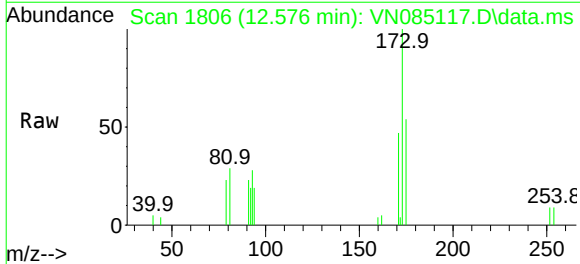
Manual Integrations
APPROVED

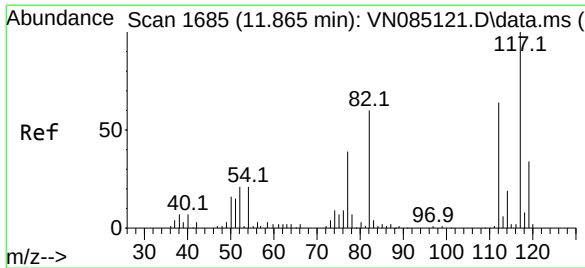
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#56
Bromoform
Concen: 5.052 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:173 Resp: 7066
Ion Ratio Lower Upper
173 100
175 46.7 40.2 60.2
254 6.3 6.2 9.4





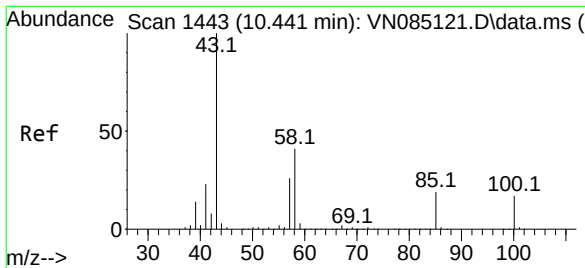
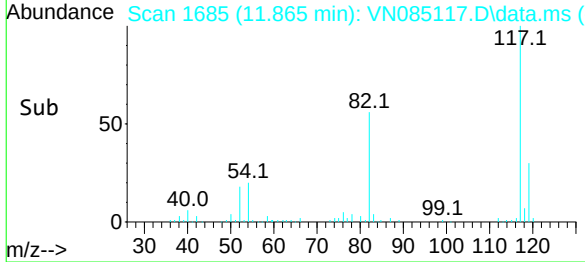
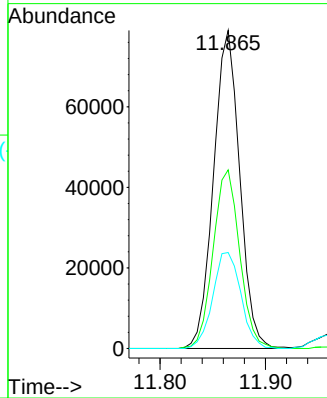
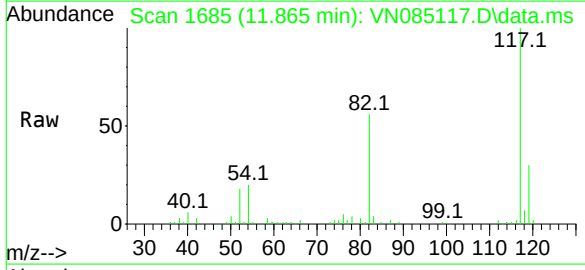
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 117 Resp: 136167
Ion Ratio Lower Upper
117 100
82 57.0 44.2 66.4
119 32.5 25.4 38.2

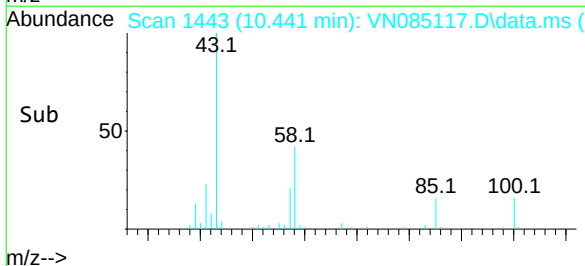
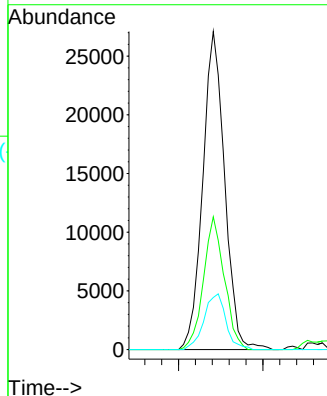
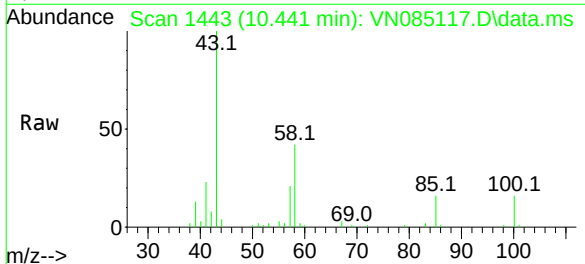
Manual Integrations
APPROVED

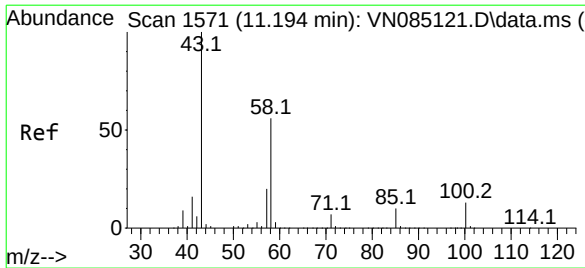
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#58
4-Methyl-2-Pentanone
Concen: 21.990 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

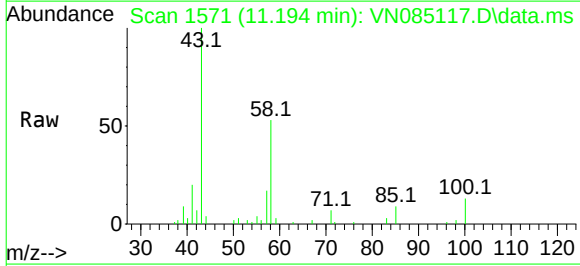
Tgt Ion: 43 Resp: 48868
Ion Ratio Lower Upper
43 100
58 39.7 31.6 47.4
85 17.6 15.0 22.6





#59
2-Hexanone
Concen: 21.188 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

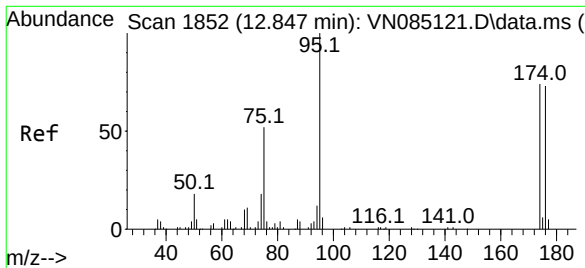
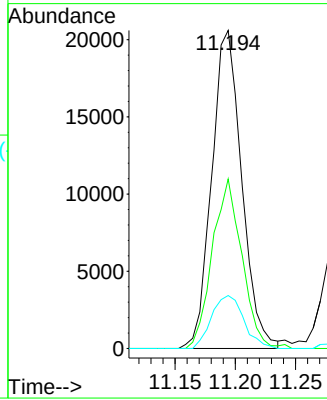
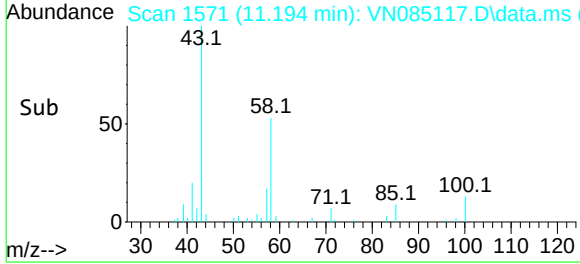
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



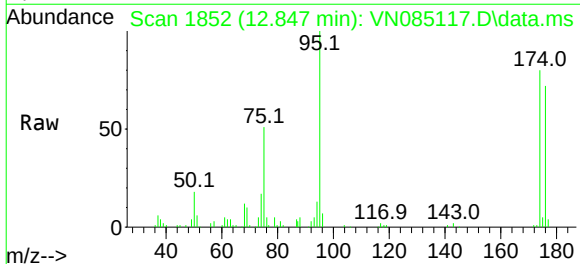
Tgt Ion: 43 Resp: 35678
Ion Ratio Lower Upper
43 100
58 52.3 43.6 65.4
57 17.9 15.4 23.0

Manual Integrations
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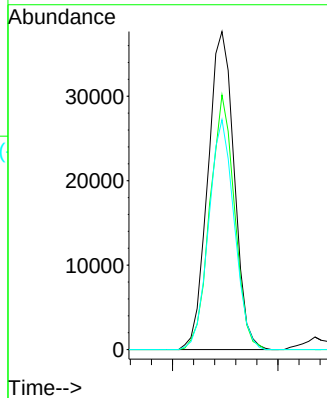
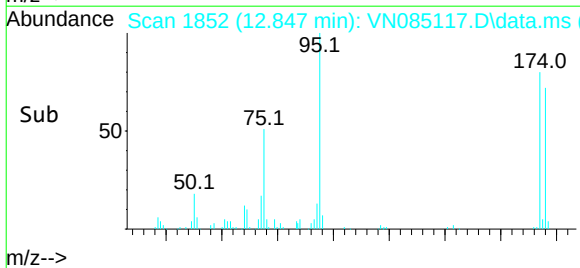
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

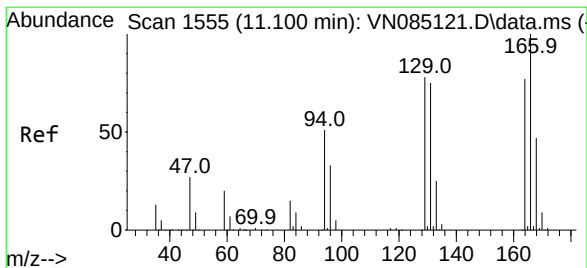


#60
4-Bromofluorobenzene
Concen: 28.954 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02



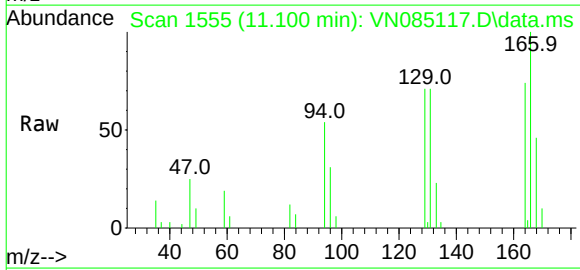
Tgt Ion: 95 Resp: 65235
Ion Ratio Lower Upper
95 100
174 75.0 60.3 90.5
176 70.2 57.4 86.0





#61
Tetrachloroethene
Concen: 5.604 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

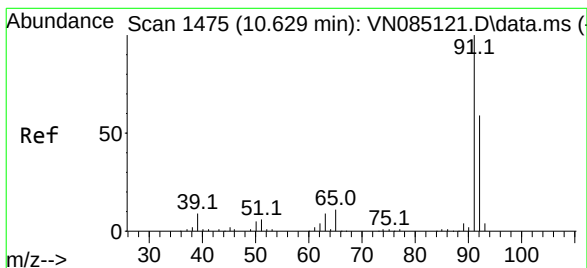
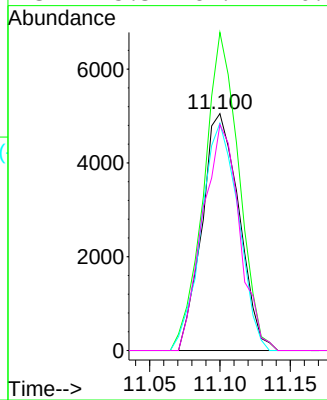
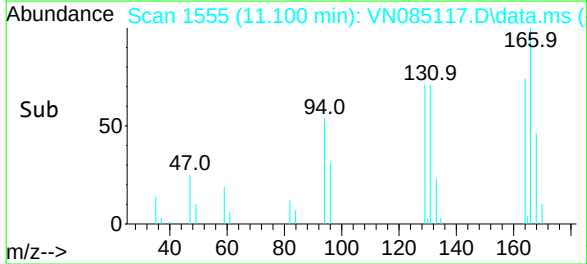
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 164 Resp: 9241
Ion Ratio Lower Upper
164 100
166 134.3 103.8 155.8
129 96.0 84.2 126.4
131 95.3 84.1 126.1

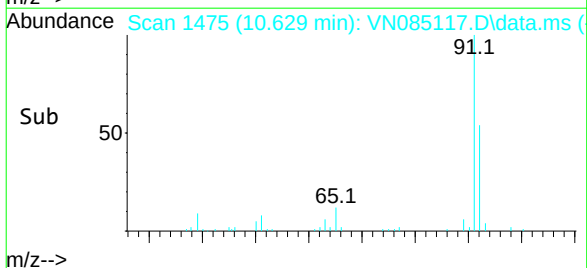
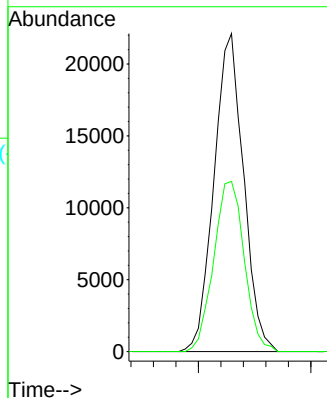
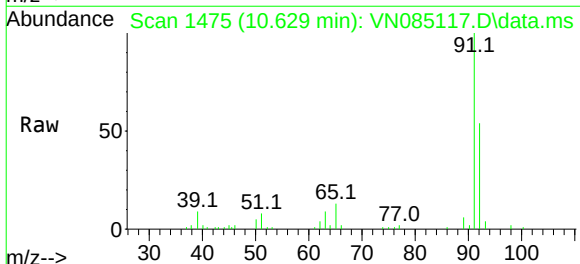
Manual Integrations
APPROVED

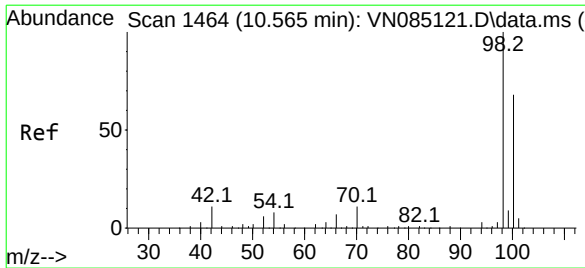
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#62
Toluene
Concen: 5.085 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 91 Resp: 40385
Ion Ratio Lower Upper
91 100
92 55.2 46.5 69.7





#63

Toluene-d8

Concen: 31.177 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 98 Resp: 199139

Ion Ratio Lower Upper

98 100

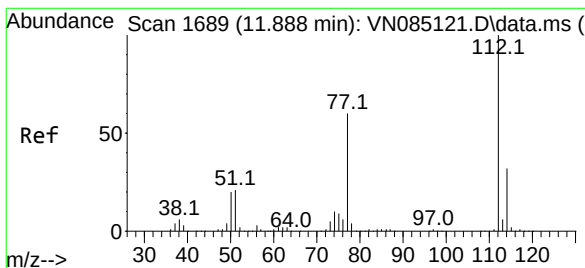
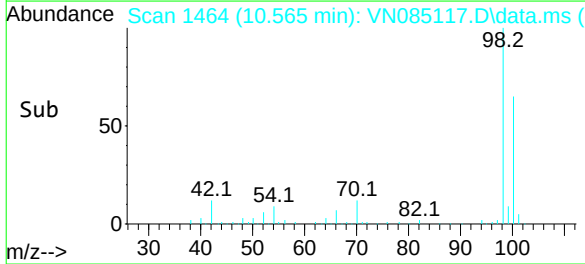
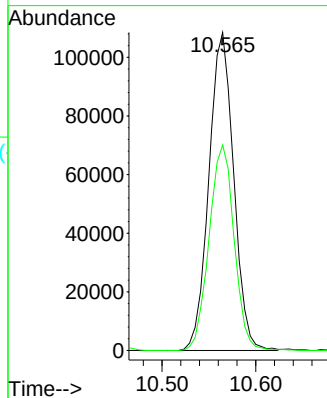
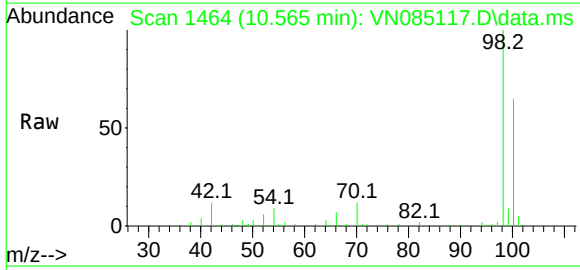
100 65.3 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#64

Chlorobenzene

Concen: 4.972 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085117.D

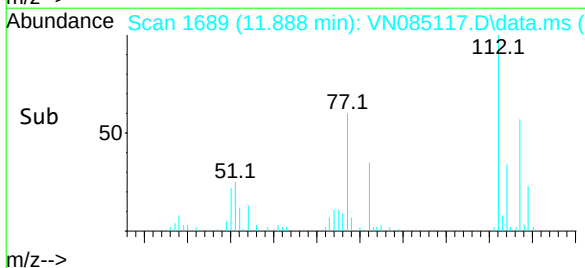
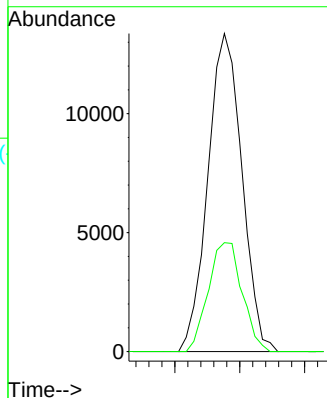
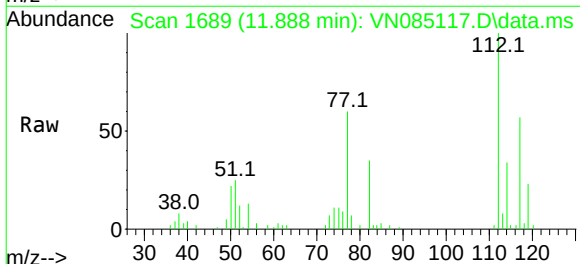
Acq: 06 Dec 2024 10:02

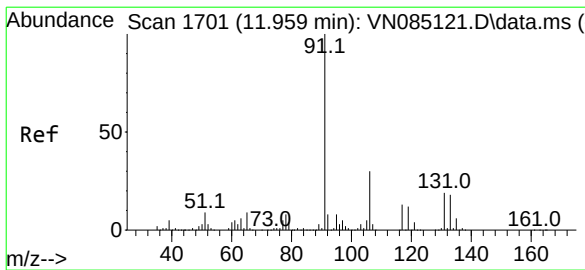
Tgt Ion:112 Resp: 24379

Ion Ratio Lower Upper

112 100

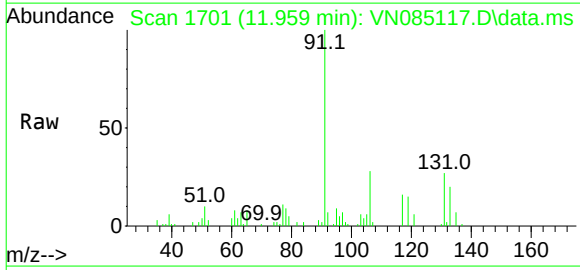
114 34.2 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 5.352 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

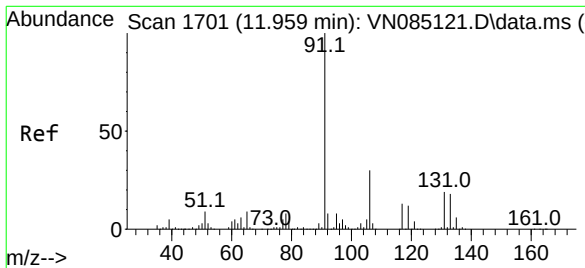
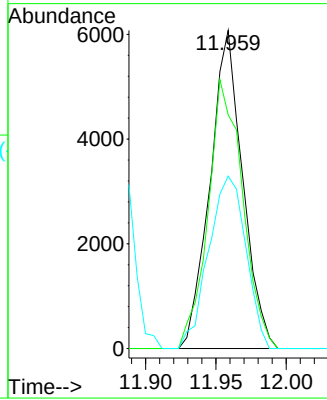
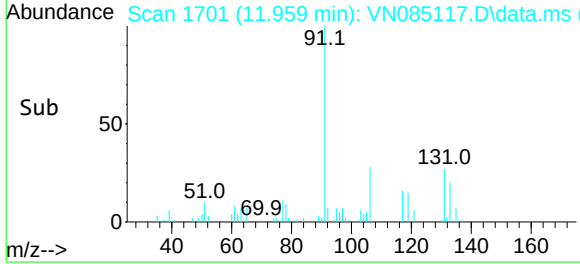
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion	Ratio	Lower	Upper
131	100		
133	89.3	0.0	194.0
119	61.9	0.0	131.8

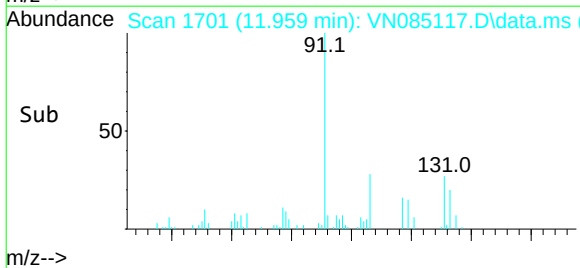
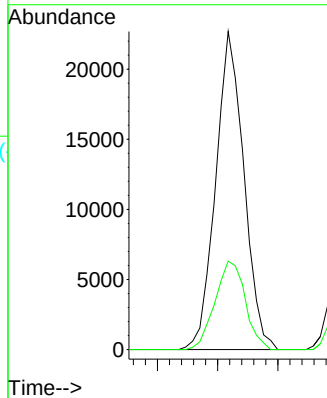
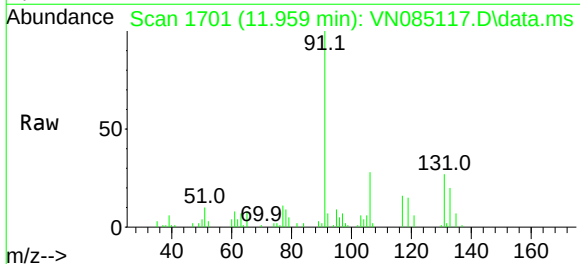
Manual Integrations
APPROVED

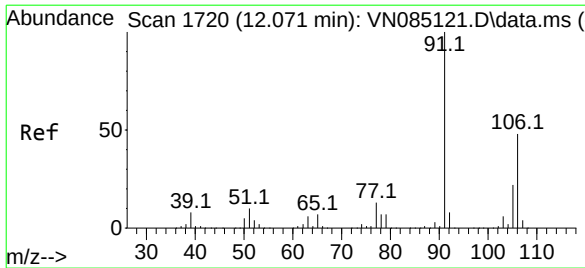
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#66
Ethyl Benzene
Concen: 4.380 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.8	23.1	34.7





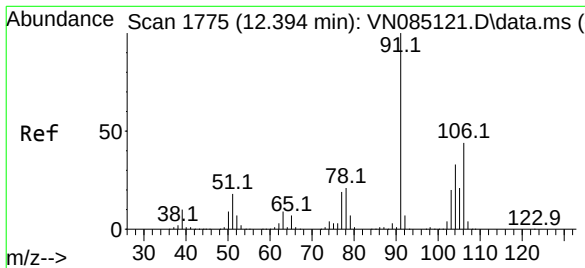
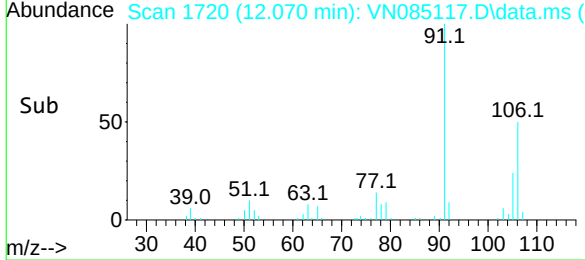
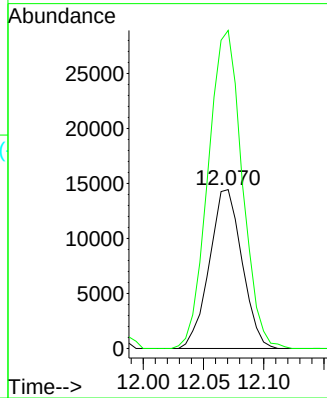
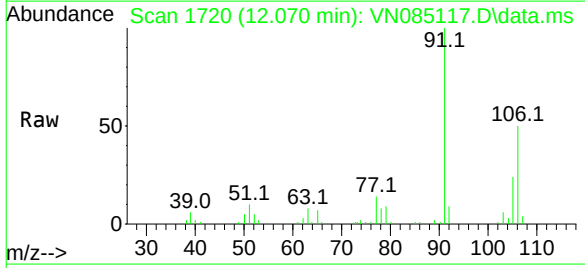
#67
m/p-Xylenes
Concen: 8.414 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 27271
Ion Ratio Lower Upper
106 100
91 208.7 165.0 247.4

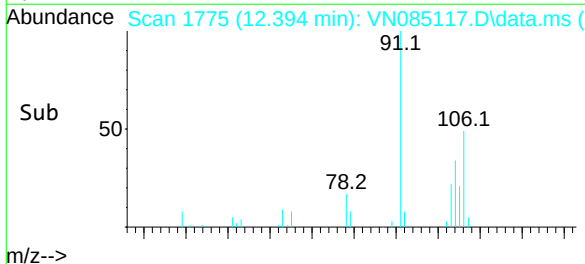
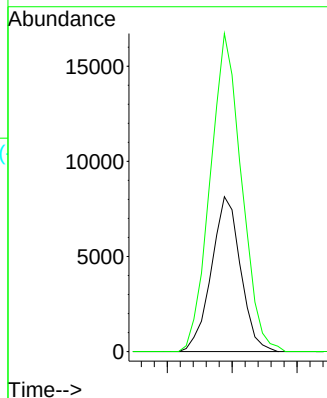
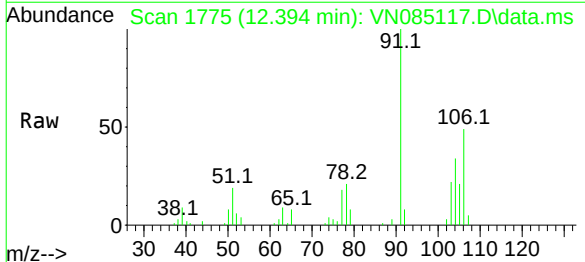
Manual Integrations
APPROVED

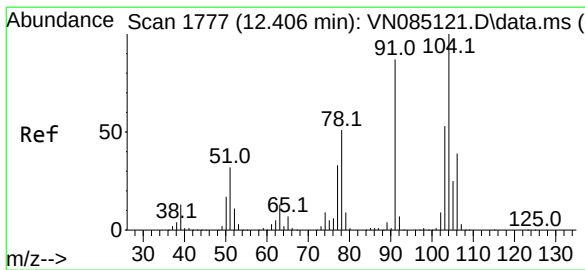
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#68
o-Xylene
Concen: 4.186 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:106 Resp: 12741
Ion Ratio Lower Upper
106 100
91 220.0 112.1 336.4





#69

Styrene

Concen: 3.918 ug/l

RT: 12.412 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

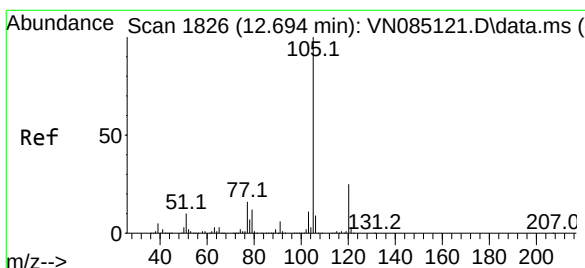
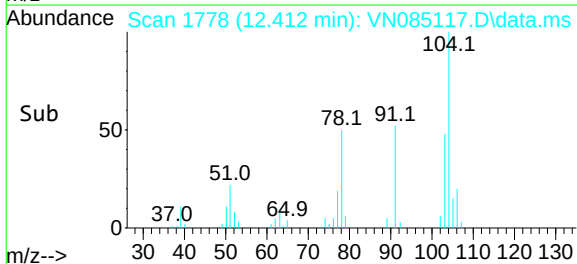
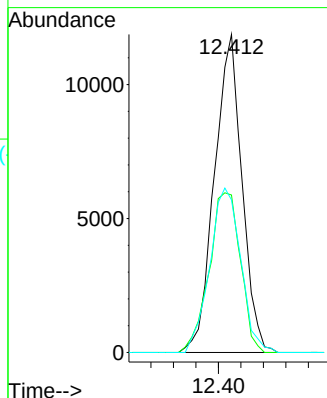
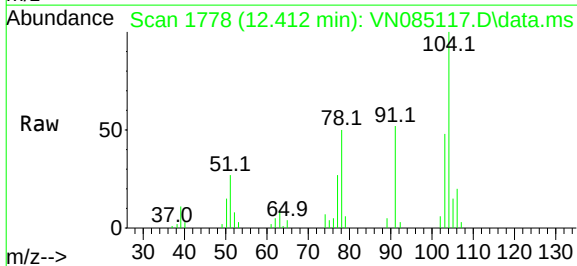
VSTDICC005

Tgt	Ion:104	Resp:	20235
Ion	Ratio	Lower	Upper
104	100		
78	57.0	42.3	63.5
103	58.1	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#70

Isopropylbenzene

Concen: 4.073 ug/l

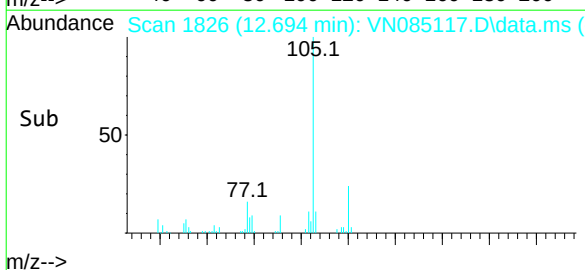
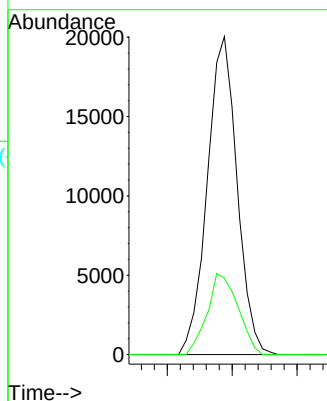
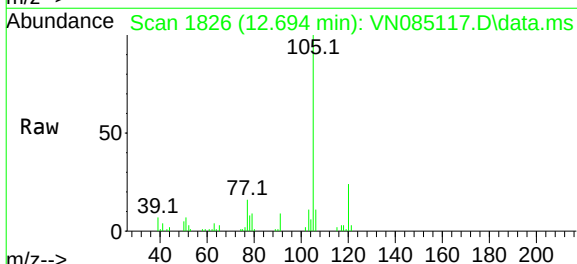
RT: 12.694 min Scan# 1826

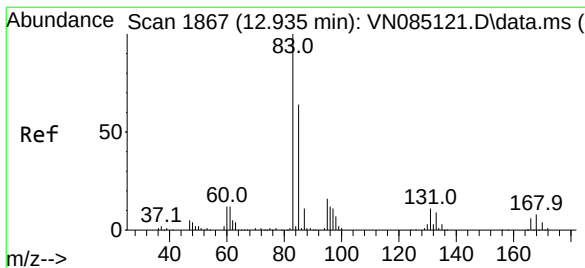
Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Tgt	Ion:105	Resp:	31980
Ion	Ratio	Lower	Upper
105	100		
120	26.3	18.3	33.9





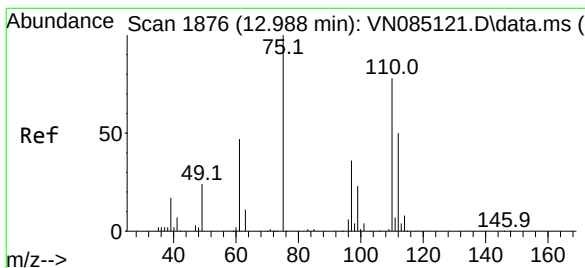
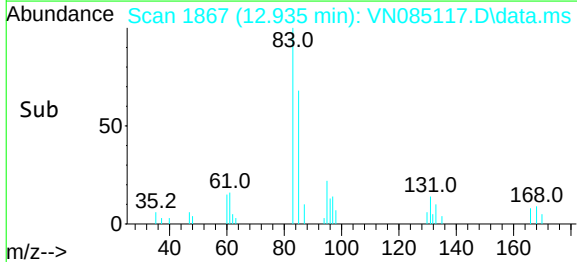
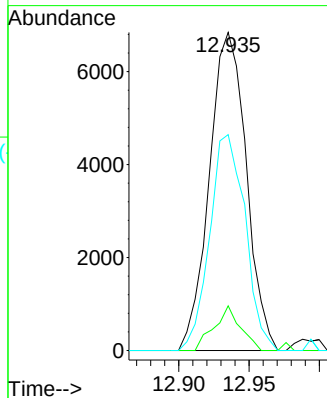
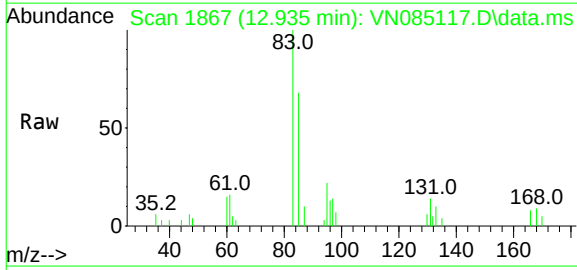
#71
1,1,2,2-Tetrachloroethane
Concen: 5.232 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	83	Resp	12502
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.3
85	65.2	31.1	93.5

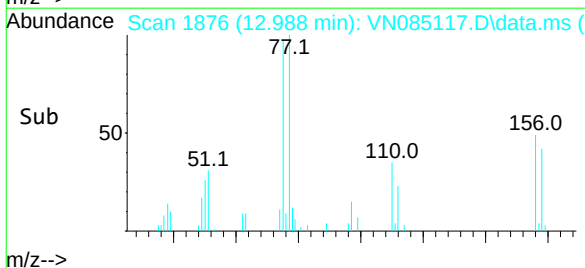
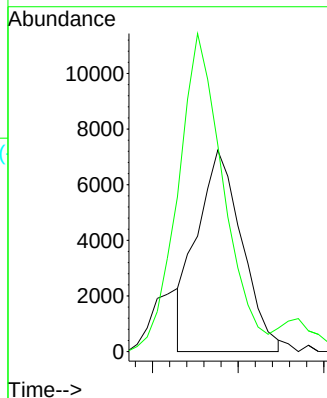
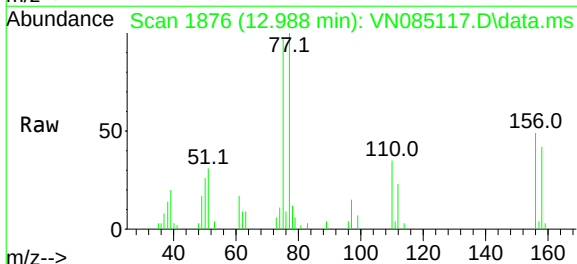
Manual Integrations
APPROVED

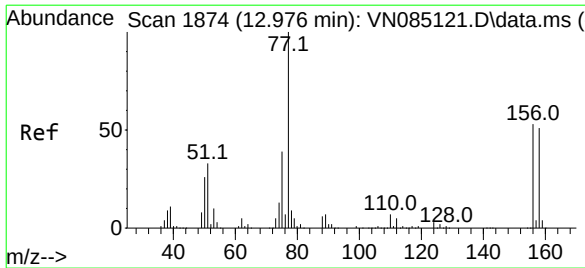
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#72
1,2,3-Trichloropropane
Concen: 5.597 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion	75	Resp	13212
Ion	Ratio	Lower	Upper
75	100		
77	159.8	0.0	339.0





#73

Bromobenzene

Concen: 4.742 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

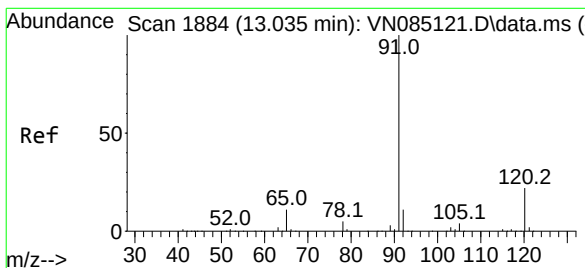
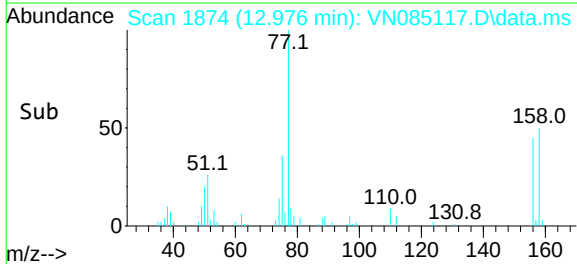
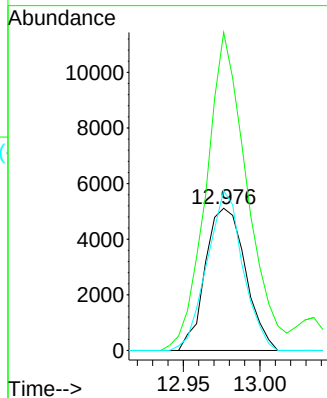
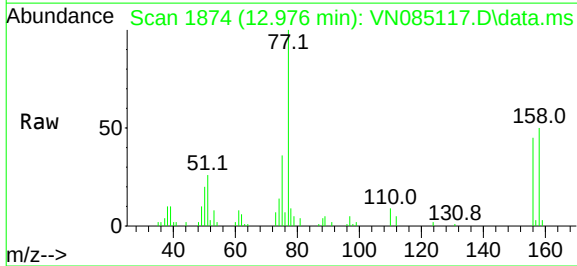
VSTDIC005

Tgt Ion:	156	Resp:	9325
Ion Ratio	Lower	Upper	
156	100		
77	226.5	0.0	430.4
158	100.2	0.0	195.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#74

n-propylbenzene

Concen: 4.194 ug/l

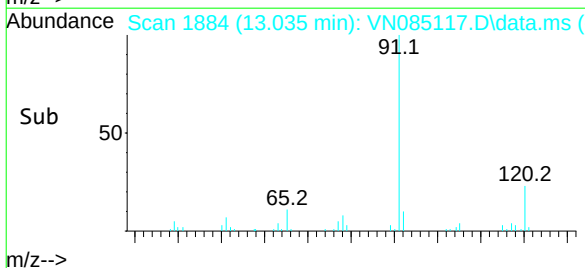
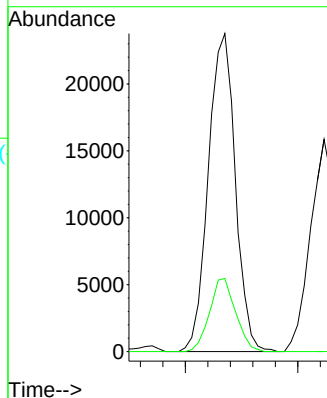
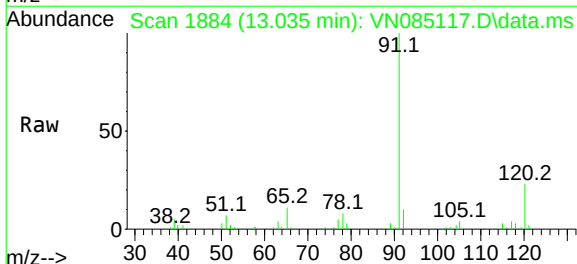
RT: 13.035 min Scan# 1884

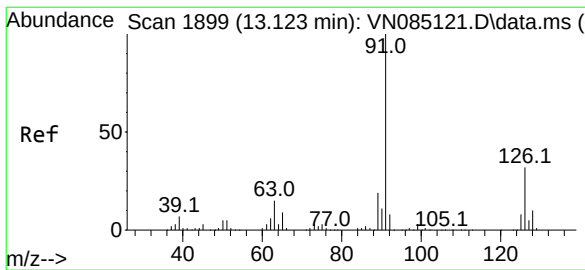
Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Tgt Ion:	91	Resp:	39585
Ion Ratio	Lower	Upper	
91	100		
120	22.2	0.0	44.0





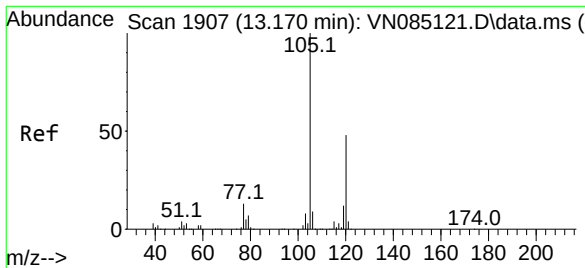
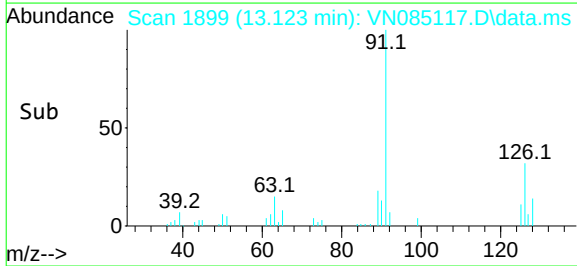
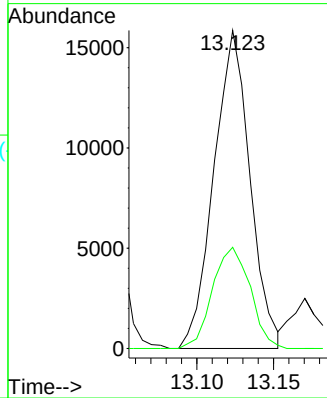
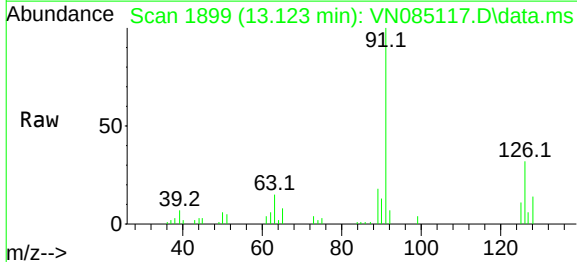
#75
2-Chlorotoluene
Concen: 4.445 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 25942
Ion Ratio Lower Upper
91 100
126 33.2 0.0 64.2

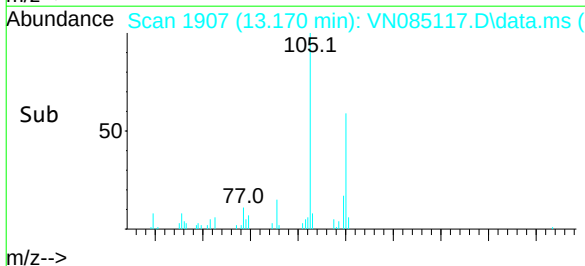
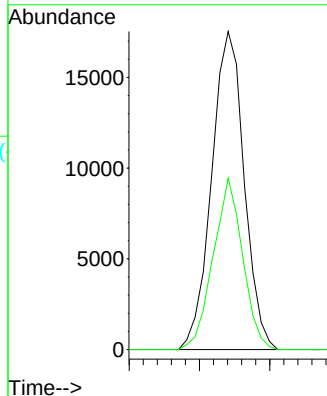
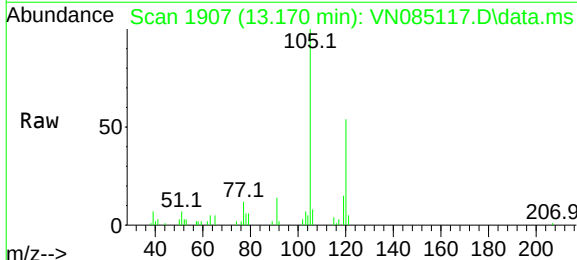
Manual Integrations
APPROVED

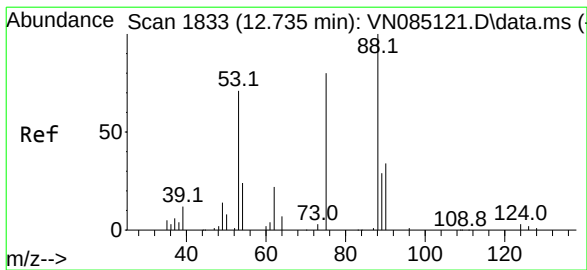
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#76
1,3,5-Trimethylbenzene
Concen: 4.187 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

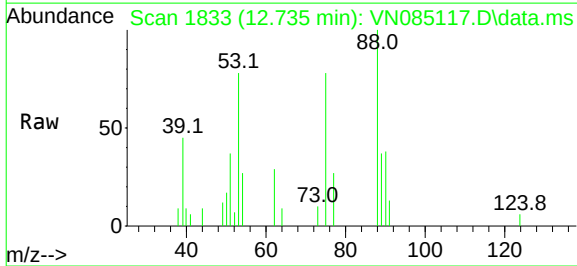
Tgt Ion:105 Resp: 28160
Ion Ratio Lower Upper
105 100
120 48.8 0.0 94.4





#77
t-1,4-Dichloro-2-butene
Concen: 4.218 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

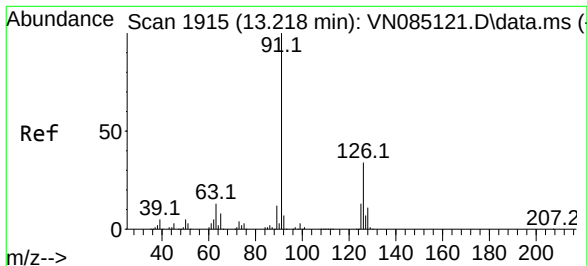
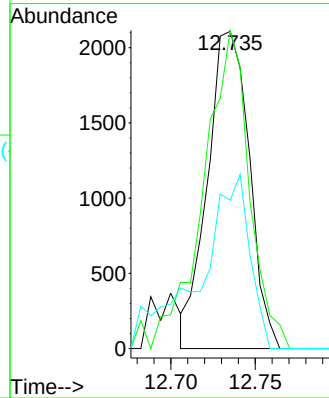
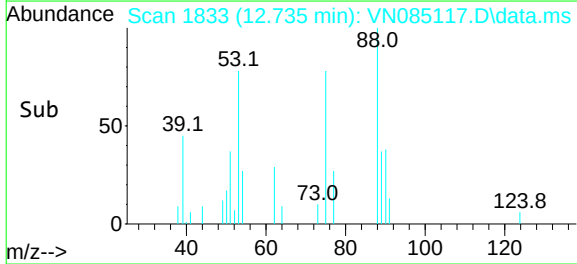
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 75 Resp: 3618
Ion Ratio Lower Upper
75 100
53 92.7 49.1 147.3
89 46.8 22.9 68.5

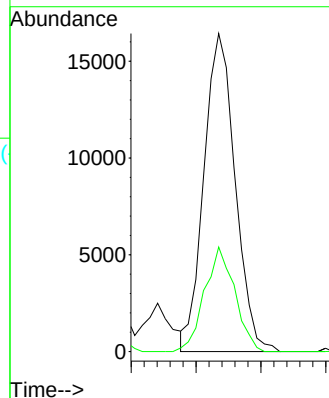
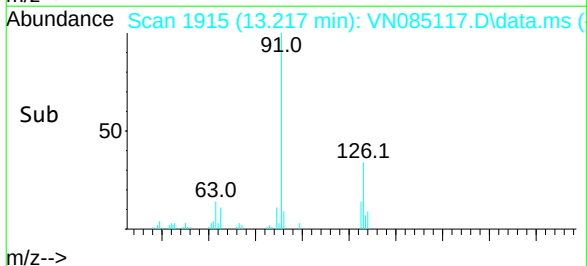
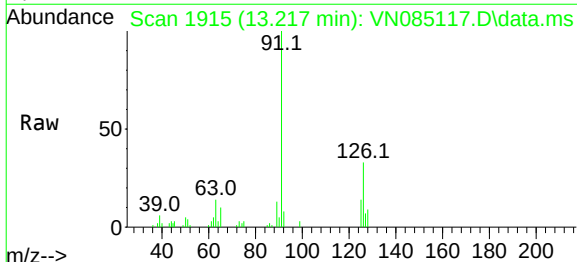
Manual Integrations
APPROVED

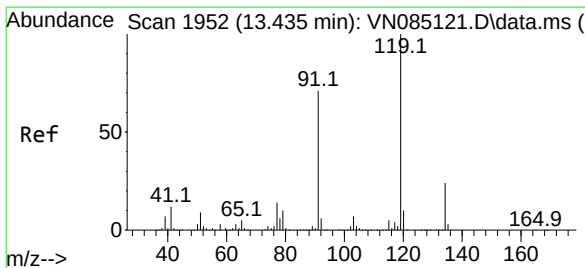
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#78
4-Chlorotoluene
Concen: 4.644 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 91 Resp: 27508
Ion Ratio Lower Upper
91 100
126 31.8 0.0 64.4





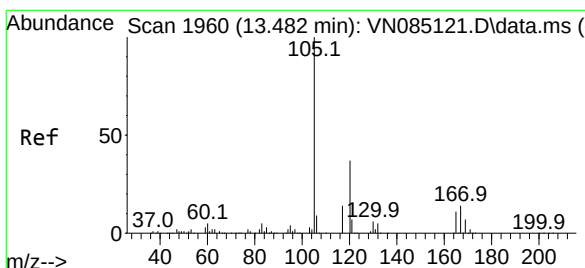
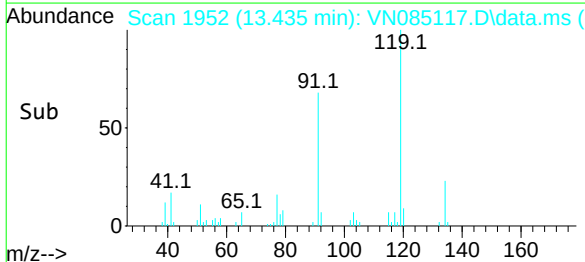
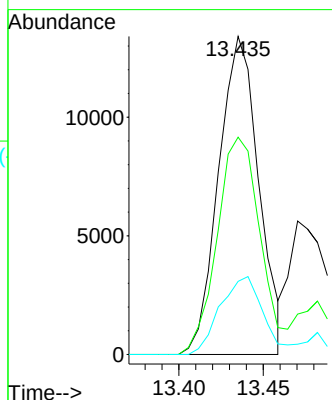
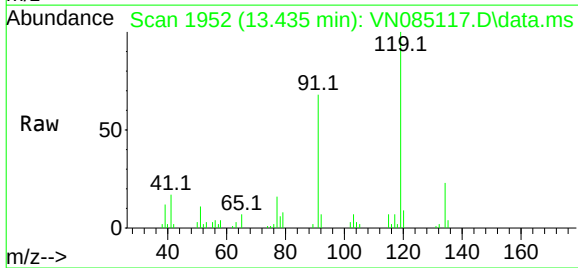
#79
tert-butylbenzene
Concen: 4.019 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
119	100		
91	73.7	0.0	139.2
134	26.0	0.0	48.0

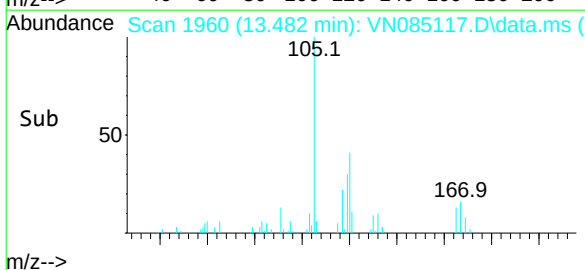
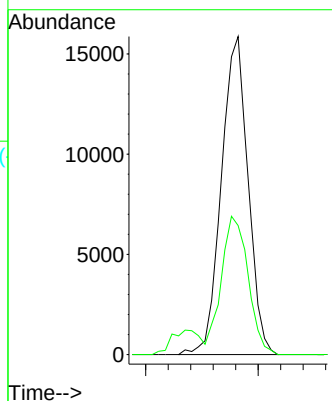
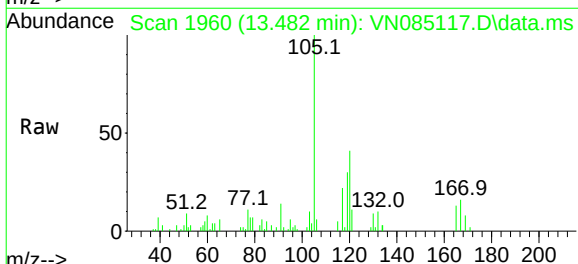
Manual Integrations
APPROVED

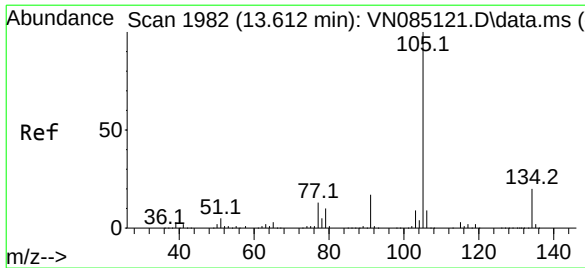
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#80
1,2,4-Trimethylbenzene
Concen: 3.933 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.8	0.0	87.4





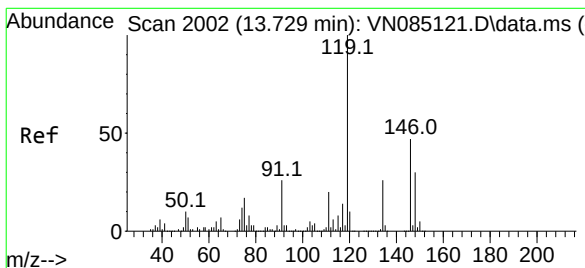
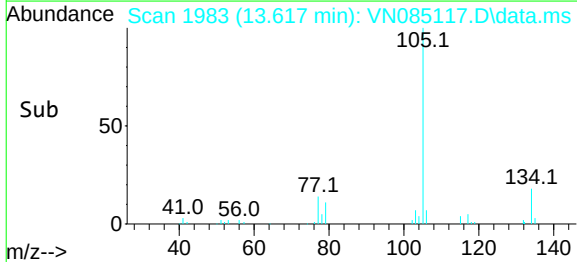
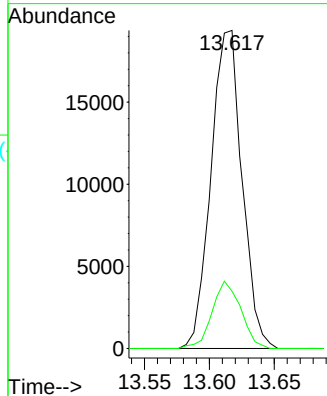
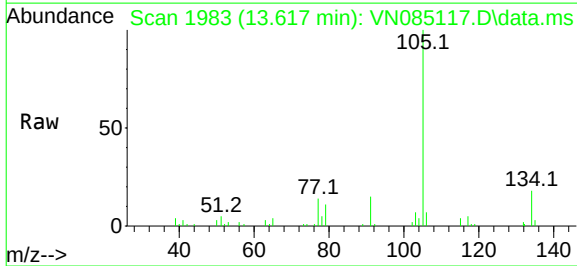
#81
sec-Butylbenzene
Concen: 4.109 ug/l
RT: 13.617 min Scan# 1982
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 32252
Ion Ratio Lower Upper
105 100
134 19.6 0.0 38.0

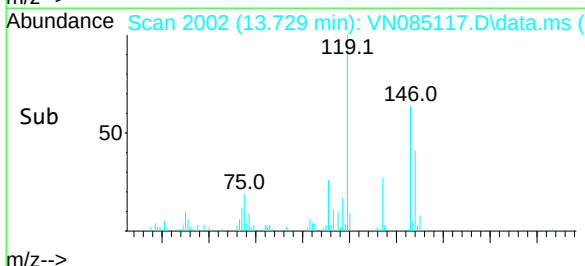
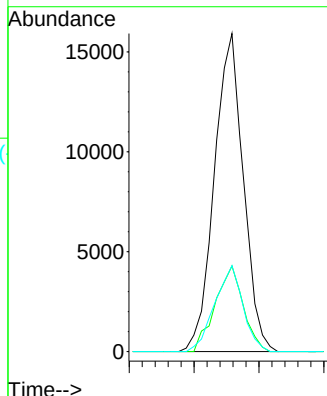
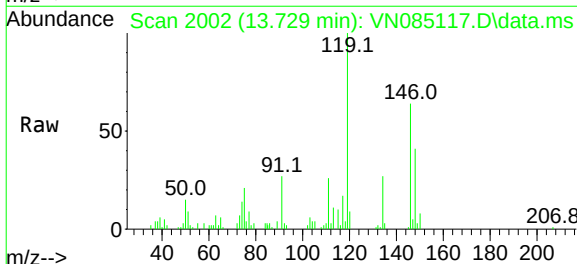
Manual Integrations
APPROVED

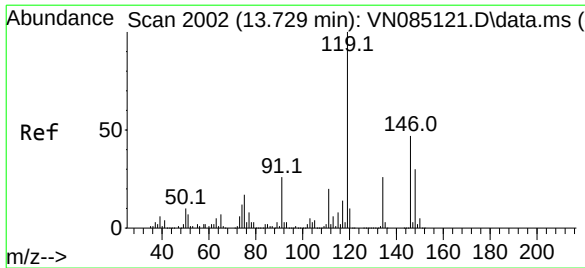
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#82
p-Isopropyltoluene
Concen: 3.803 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:119 Resp: 24743
Ion Ratio Lower Upper
119 100
134 26.1 0.0 51.6
91 26.2 0.0 50.4





#83

1,3-Dichlorobenzene

Concen: 4.900 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

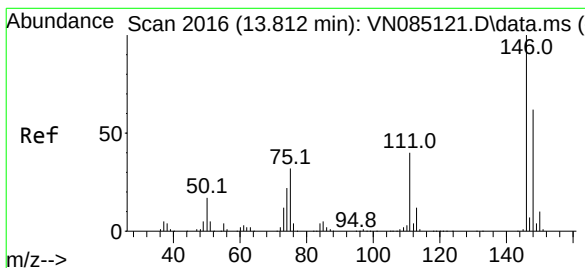
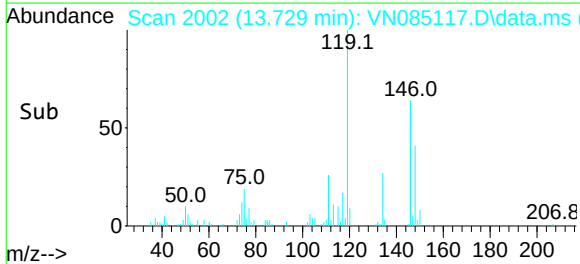
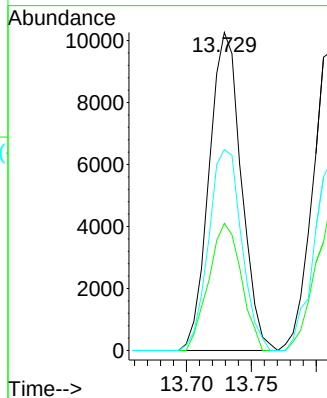
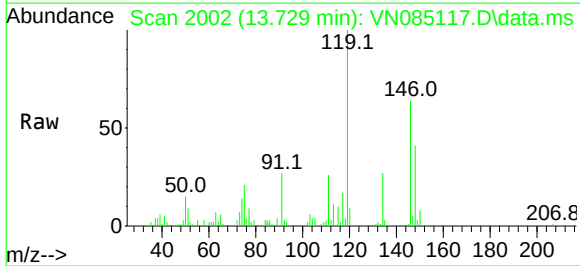
Tgt Ion:	146	Resp:	17680
Ion Ratio	Lower	Upper	
146	100		
111	40.5	21.1	63.3
148	64.8	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#84

1,4-Dichlorobenzene

Concen: 4.680 ug/l

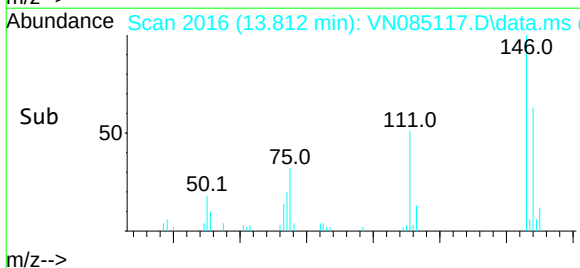
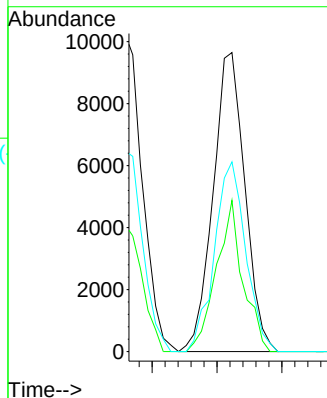
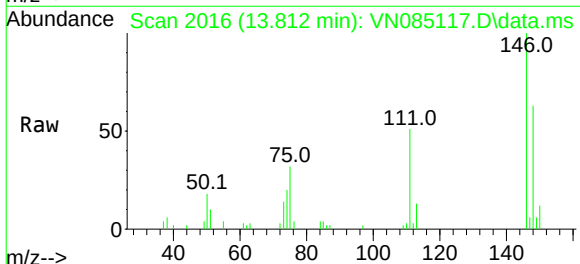
RT: 13.812 min Scan# 2016

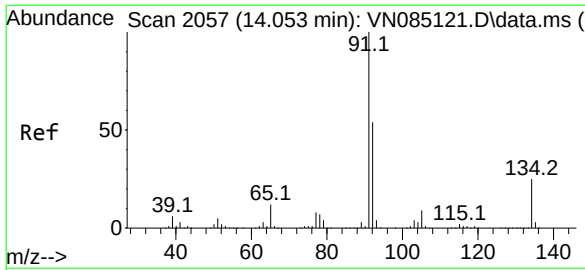
Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Tgt Ion:	146	Resp:	16455
Ion Ratio	Lower	Upper	
146	100		
111	42.3	20.1	60.3
148	62.6	31.6	94.7





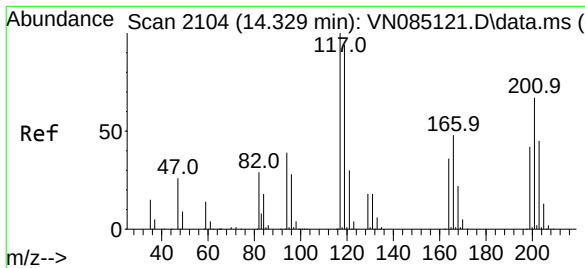
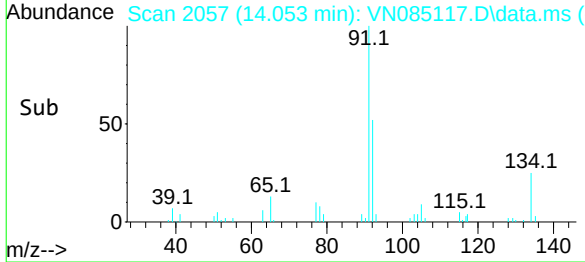
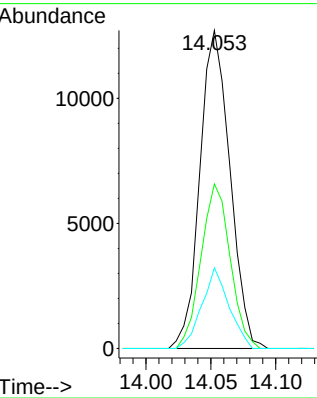
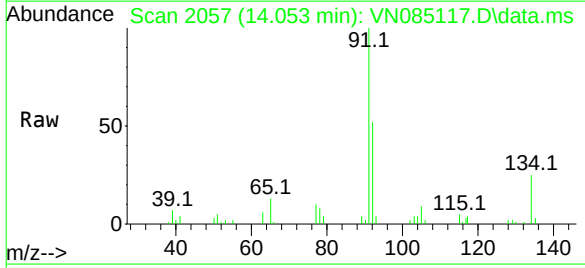
#85
n-Butylbenzene
Concen: 3.756 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 20500
Ion Ratio Lower Upper
91 100
92 50.0 0.0 104.0
134 22.8 0.0 49.2

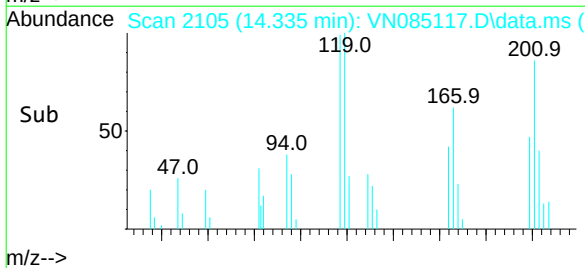
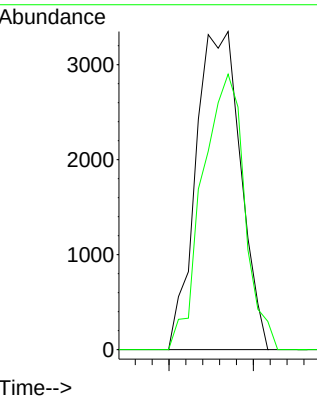
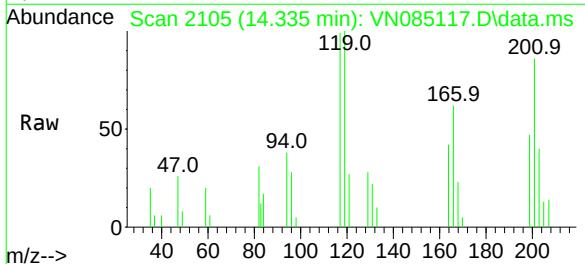
Manual Integrations
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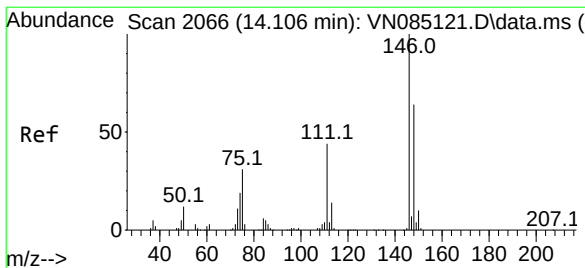
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#86
Hexachloroethane
Concen: 4.778 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:117 Resp: 6189
Ion Ratio Lower Upper
117 100
201 81.3 34.1 102.3





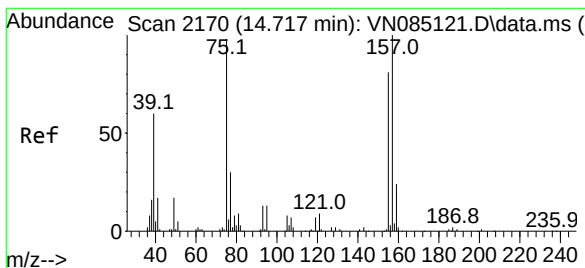
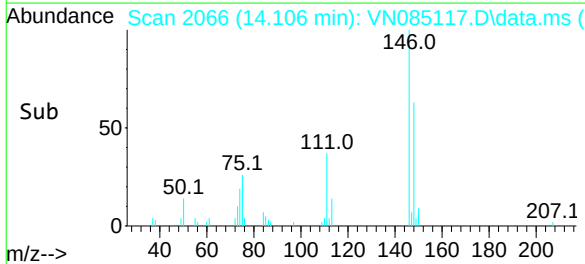
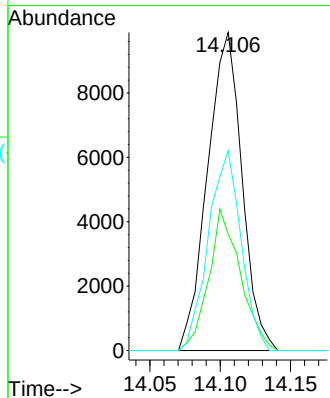
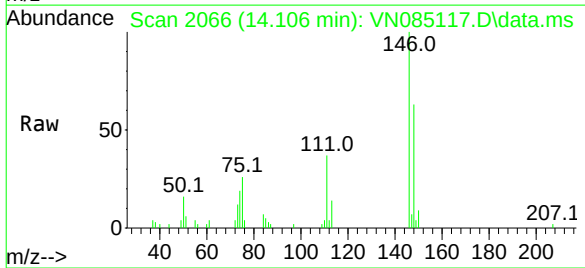
#87
1,2-Dichlorobenzene
Concen: 4.950 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.9	65.7
148	59.8	32.4	97.0

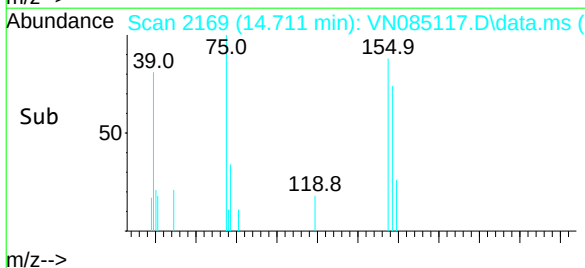
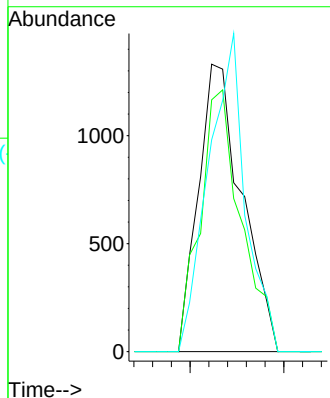
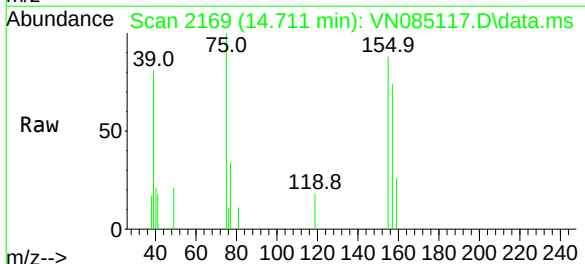
Manual Integrations
APPROVED

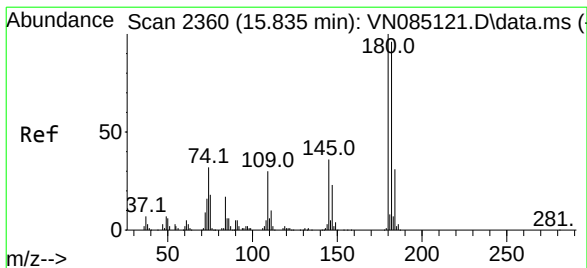
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 4.495 ug/l
RT: 14.711 min Scan# 2169
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.4	62.1	93.1
157	94.2	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 3.806 ug/l

RT: 15.835 min Scan# 23

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

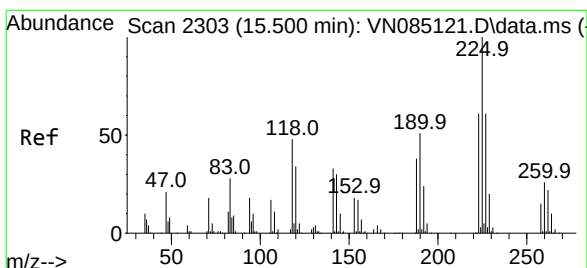
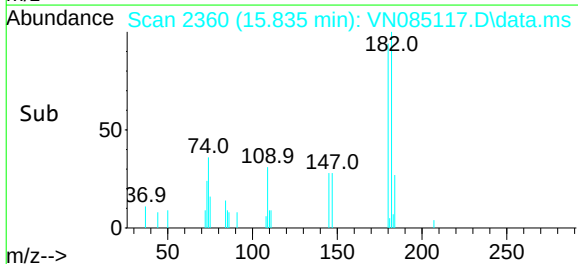
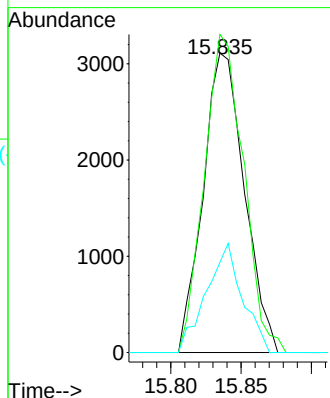
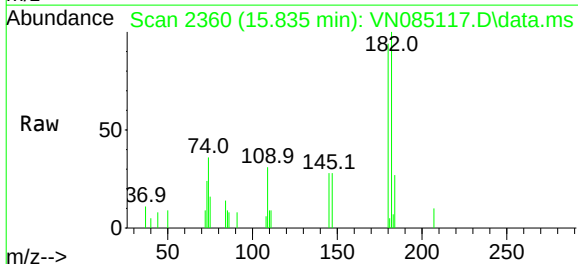
VSTDICC005

Tgt	Ion:180	Resp:	6347
Ion	Ratio	Lower	Upper
180	100		
182	101.3	74.0	111.0
145	31.8	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#90

Hexachlorobutadiene

Concen: 5.392 ug/l

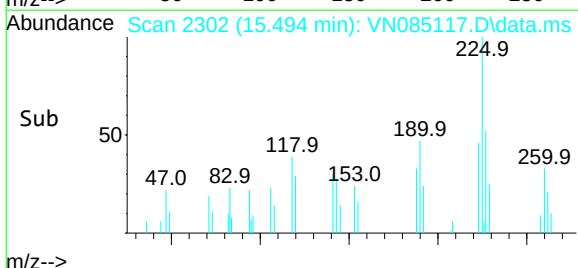
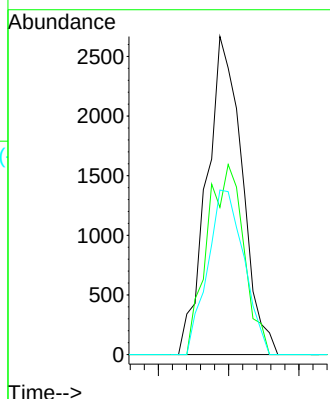
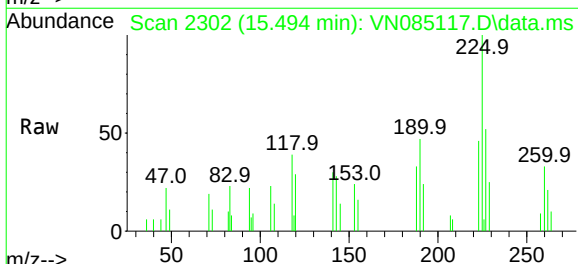
RT: 15.494 min Scan# 2302

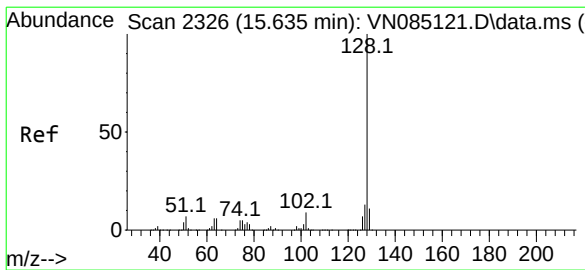
Delta R.T. -0.006 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Tgt	Ion:225	Resp:	4673
Ion	Ratio	Lower	Upper
225	100		
223	61.7	0.0	121.8
227	53.0	0.0	126.8





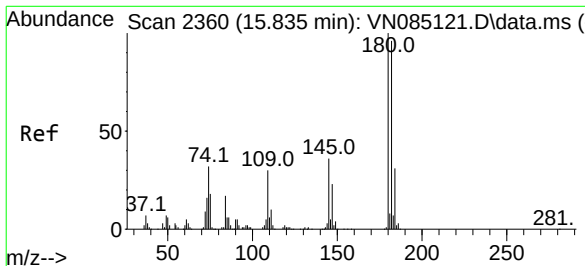
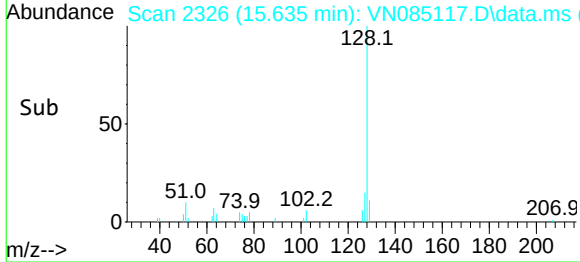
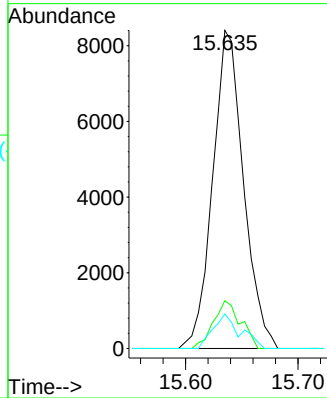
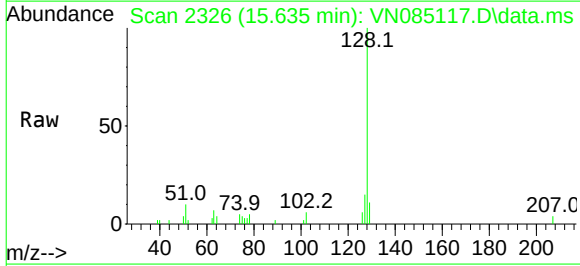
#91
Naphthalene
Concen: 3.083 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:	128	Resp:	15972
Ion Ratio	Lower	Upper	
128	100		
127	13.3	11.0	16.4
129	7.3	8.7	13.1

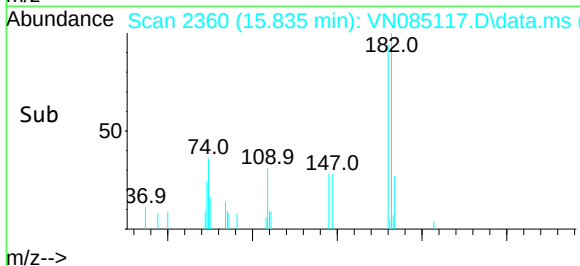
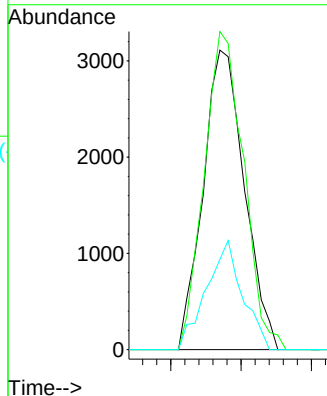
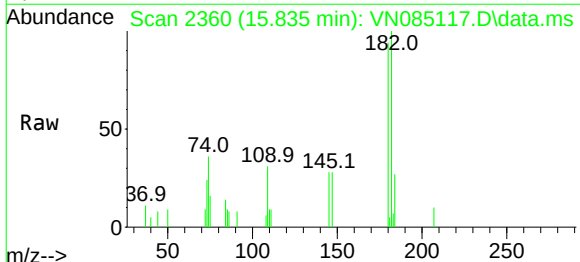
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#92
1,2,3-Trichlorobenzene
Concen: 3.806 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:	180	Resp:	6347
Ion Ratio	Lower	Upper	
180	100		
182	101.3	0.0	185.0
145	31.8	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085118.D
 Acq On : 06 Dec 2024 10:26
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Dec 06 22:28:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	31263	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	162398	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	151793	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	74804	30.155	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.533%			
60) 4-Bromofluorobenzene	12.847	95	75101	29.902	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.667%			
63) Toluene-d8	10.565	98	218988	30.755	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.533%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	51416	20.557	ug/l	100
3) Chloromethane	2.359	50	43625	19.705	ug/l	100
4) Vinyl Chloride	2.512	62	44749	19.762	ug/l	100
5) Bromomethane	2.965	94	27801	19.338	ug/l	100
6) Chloroethane	3.124	64	27130	19.501	ug/l	100
7) Trichlorofluoromethane	3.500	101	72134	19.461	ug/l	100
8) Diethyl Ether	3.959	74	21832	18.596	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	40093	19.343	ug/l	100
10) 1,1-Dichloroethene	4.342	96	36518	19.181	ug/l	100
11) Methyl Iodide	4.589	142	48887	18.514	ug/l	100
12) Methyl Acetate	5.018	43	42971	19.131	ug/l	100
13) Acrolein	4.183	56	26615	81.540	ug/l	100
14) Acrylonitrile	5.718	53	87191	93.488	ug/l	100
15) Acetone	4.424	58	23800	94.168	ug/l	100
16) Carbon Disulfide	4.712	76	111875	19.659	ug/l	100
17) Allyl chloride	5.024	41	49995	18.351	ug/l	100
18) Methylene Chloride	5.271	84	41937	19.412	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	37486	18.942	ug/l	100
20) Diisopropyl ether	6.665	45	118238	19.776	ug/l	100
21) 1,1-Dichloroethane	6.565	63	71204	19.296	ug/l	100
22) cis-1,2-Dichloroethene	7.488	96	44288	19.471	ug/l	100
23) tert-Butyl Alcohol	5.512	59	30593	91.438	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	113672	19.125	ug/l	100
25) Chloroform	7.959	83	75756	19.596	ug/l	100
26) Cyclohexane	8.253	56	60954	20.061	ug/l	100
29) 1,1-Dichloropropene	8.371	75	52226	19.930	ug/l	100
30) 2-Butanone	7.483	43	117537	97.739	ug/l	100
31) 2,2-Dichloropropane	7.488	77	65781	19.575	ug/l #	100
32) 1,1,1-Trichloroethane	8.171	97	71977	20.293	ug/l	100
33) Carbon Tetrachloride	8.359	117	63567	19.861	ug/l	100
34) Benzene	8.606	78	162502	19.740	ug/l	100
35) Methacrylonitrile	7.777	41	27120	20.040	ug/l	100
36) 1,2-Dichloroethane	8.665	62	54631	19.494	ug/l	100
37) Trichloroethene	9.353	130	38555	19.667	ug/l	100
38) Methylcyclohexane	9.600	83	52032	18.261	ug/l	100
39) 1,2-Dichloropropane	9.618	63	40007	20.064	ug/l	100
40) Dibromomethane	9.706	93	28813	20.145	ug/l	100
41) Bromodichloromethane	9.882	83	60013	19.628	ug/l	100
42) Vinyl Acetate	6.600	43	404546	96.136	ug/l	100

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 Data File : VN085118.D
 Acq On : 06 Dec 2024 10:26
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

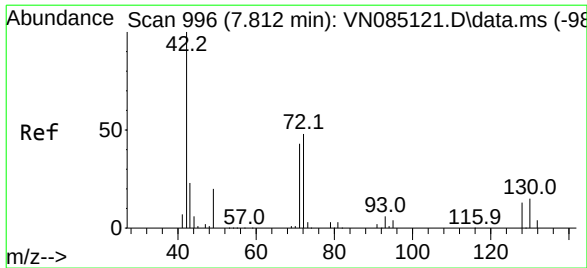
Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 22:28:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	43730	18.276	ug/l	100
44) Isopropyl Acetate	8.688	43	80717	19.412	ug/l	100
45) 1,4-Dioxane	9.694	88	13988	403.408	ug/l	100
46) Methyl methacrylate	9.682	41	37174	19.535	ug/l	100
47) n-amyl Acetate	12.494	43	67009	19.154	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	55998	18.657	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	63845	19.540	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	38466	19.958	ug/l	100
51) Ethyl methacrylate	10.871	69	54805	18.696	ug/l	100
52) 1,3-Dichloropropane	11.159	76	63330	19.634	ug/l	100
53) Dibromochloromethane	11.353	129	46068	19.614	ug/l	100
54) 1,2-Dibromoethane	11.465	107	37625	19.376	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	133977	98.387	ug/l	100
56) Bromoform	12.576	173	29780	18.911	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	249951	100.896	ug/l	100
59) 2-Hexanone	11.194	43	190003	101.223	ug/l	100
61) Tetrachloroethene	11.100	164	36183	19.684	ug/l	100
62) Toluene	10.629	91	173344	19.581	ug/l	100
64) Chlorobenzene	11.888	112	106855	19.550	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	38831	19.032	ug/l	100
66) Ethyl Benzene	11.965	91	176006	18.737	ug/l	100
67) m/p-Xylenes	12.070	106	144263	39.929	ug/l	100
68) o-Xylene	12.394	106	65568	19.324	ug/l	100
69) Styrene	12.412	104	111060	19.289	ug/l	100
70) Isopropylbenzene	12.694	105	167624	19.153	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	53829	20.208	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	53975m	20.512	ug/l	
73) Bromobenzene	12.976	156	42513	19.393	ug/l	100
74) n-propylbenzene	13.035	91	204446	19.431	ug/l	100
75) 2-Chlorotoluene	13.123	91	128581	19.766	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	145824	19.449	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	18073	18.901	ug/l	100
78) 4-Chlorotoluene	13.217	91	127680	19.337	ug/l	100
79) tert-butylbenzene	13.435	119	118752	19.283	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	144579	19.521	ug/l	100
81) sec-Butylbenzene	13.612	105	168895	19.304	ug/l	100
82) p-Isopropyltoluene	13.729	119	138833	19.140	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	77464	19.261	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	75083	19.156	ug/l	100
85) n-Butylbenzene	14.053	91	109819	18.049	ug/l	100
86) Hexachloroethane	14.329	117	27795	19.248	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	72993	19.228	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10448	19.634	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	34577	18.598	ug/l	100
90) Hexachlorobutadiene	15.500	225	18570	19.222	ug/l	100
91) Naphthalene	15.641	128	98254	17.011	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	34577	18.598	ug/l	100

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



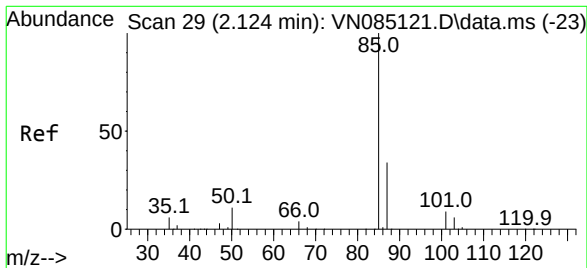
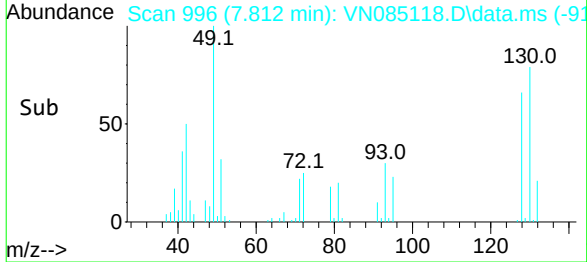
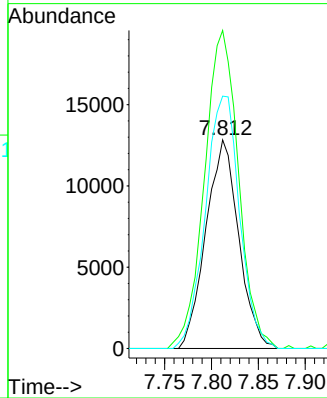
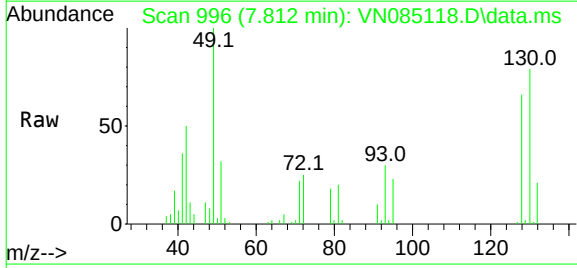
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Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 128 Resp: 31263
Ion Ratio Lower Upper
128 100
49 157.8 0.0 394.5
130 126.6 0.0 316.5

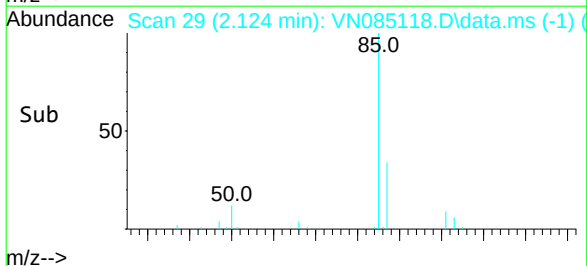
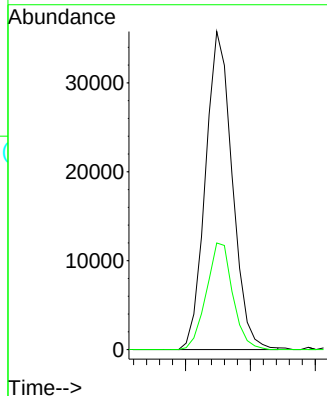
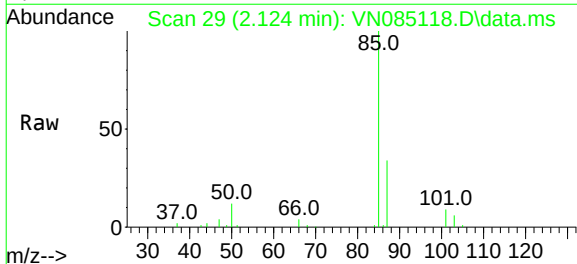
Manual Integrations
APPROVED

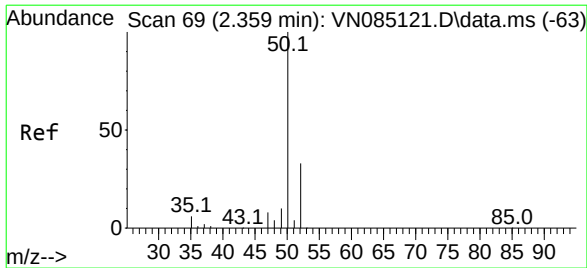
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#2
Dichlorodifluoromethane
Concen: 20.557 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 85 Resp: 51416
Ion Ratio Lower Upper
85 100
87 33.5 16.8 50.3





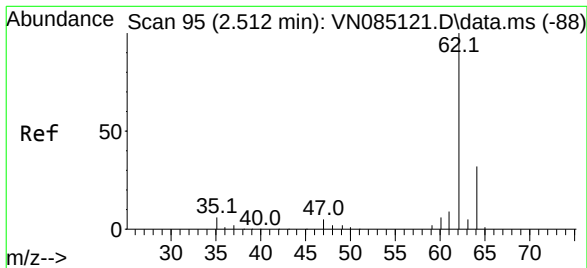
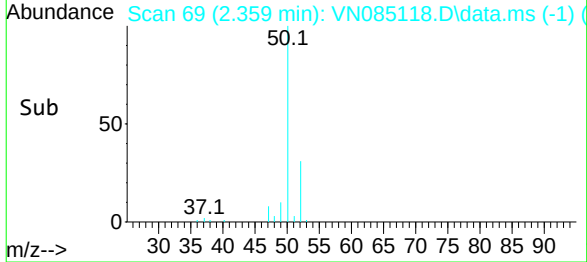
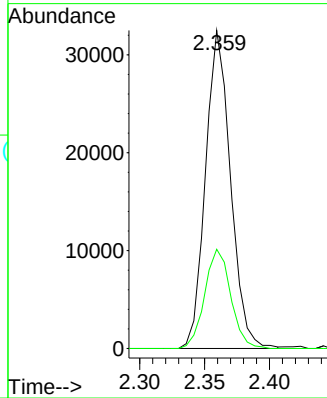
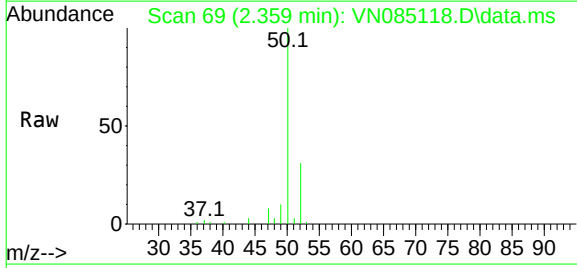
#3
Chloromethane
Concen: 19.705 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 50 Resp: 43625
Ion Ratio Lower Upper
50 100
52 31.2 25.0 37.4

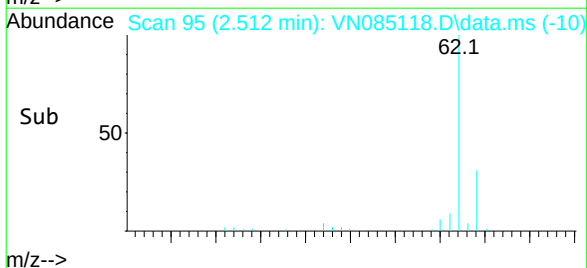
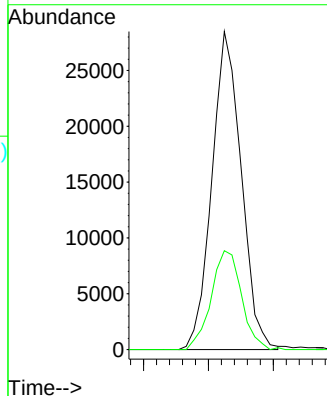
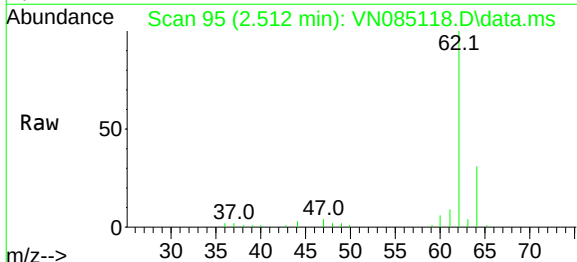
Manual Integrations
APPROVED

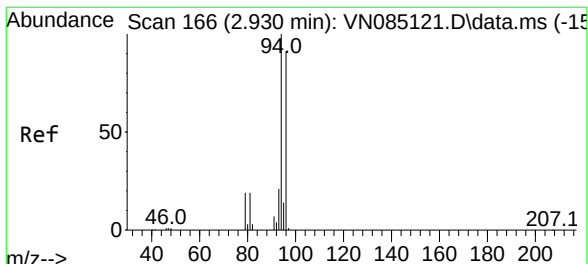
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#4
Vinyl Chloride
Concen: 19.762 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 62 Resp: 44749
Ion Ratio Lower Upper
62 100
64 31.1 24.9 37.3





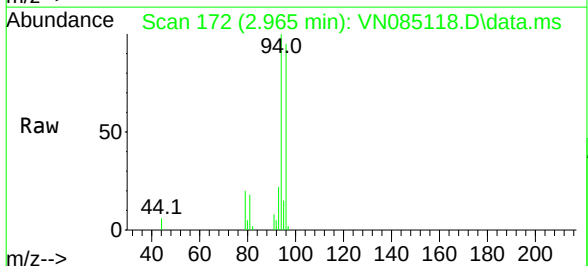
#5
Bromomethane
Concen: 19.338 ug/l
RT: 2.965 min Scan# 171
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

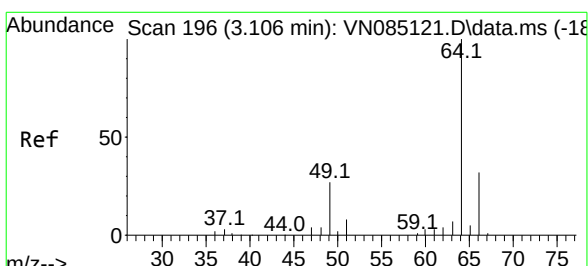
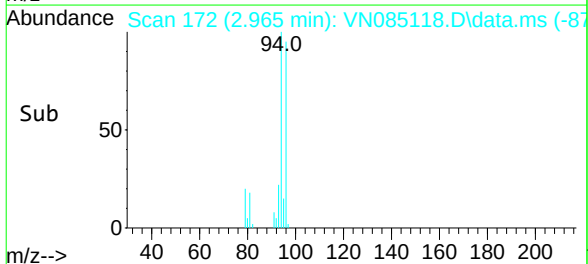
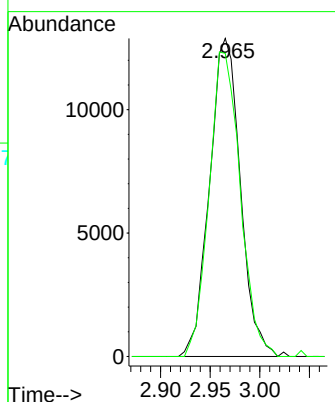


Tgt Ion:	94	Resp:	27801
Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.2	114.4

Manual Integrations

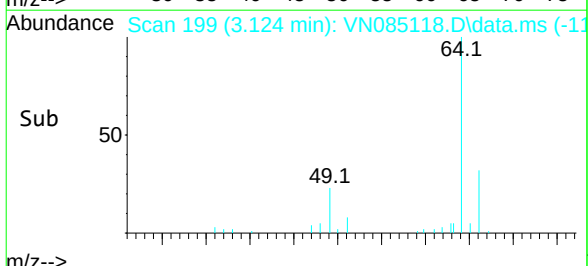
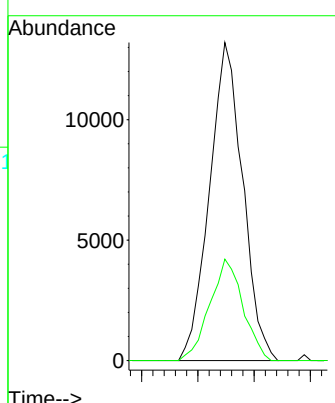
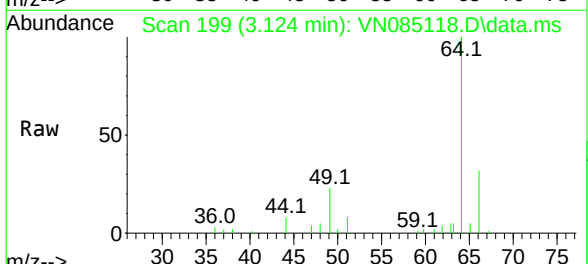
APPROVED

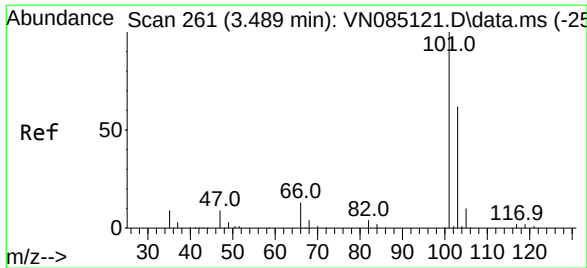
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#6
Chloroethane
Concen: 19.501 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

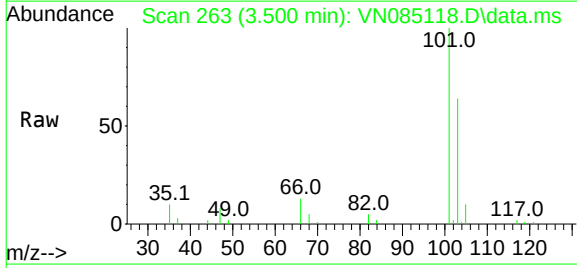
Tgt Ion:	64	Resp:	27130
Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.5	38.3





#7
 Trichlorofluoromethane
 Concen: 19.461 ug/l
 RT: 3.500 min Scan# 261
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

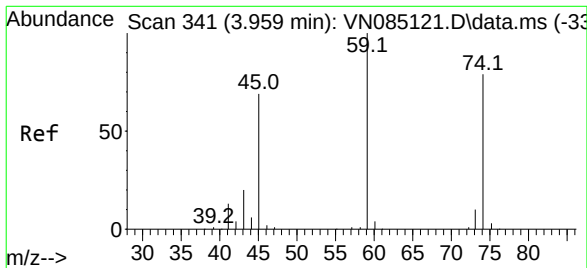
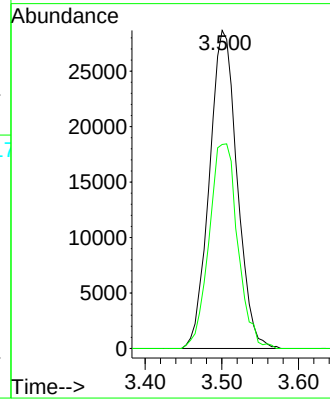
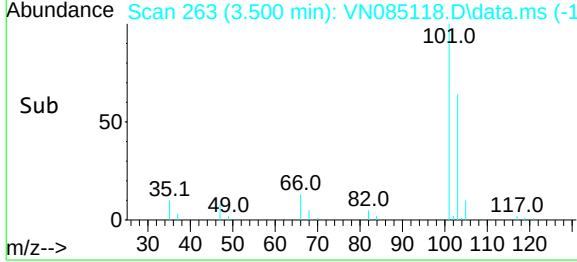
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020



Tgt Ion:101 Resp: 72134
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.3 76.9

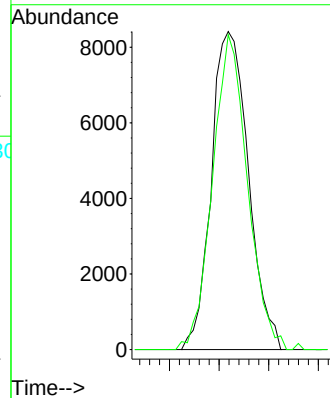
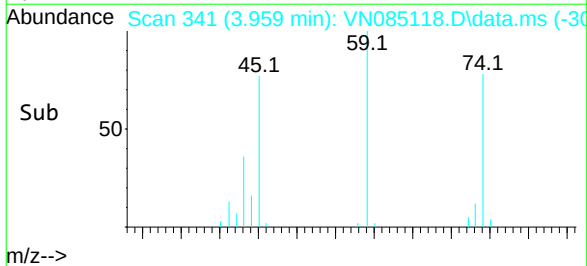
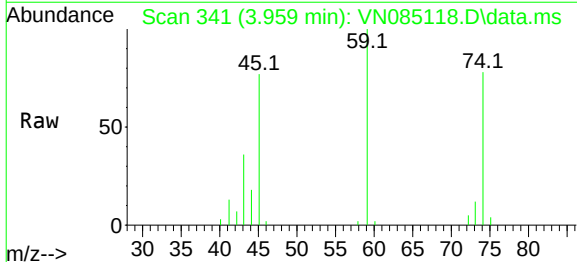
Manual Integrations
 APPROVED

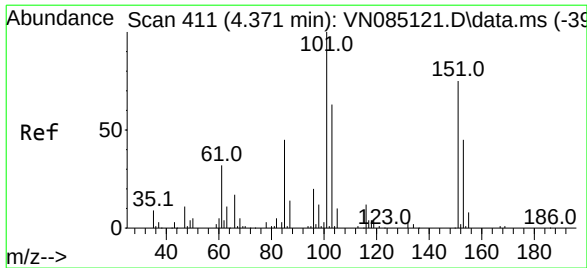
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#8
 Diethyl Ether
 Concen: 18.596 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

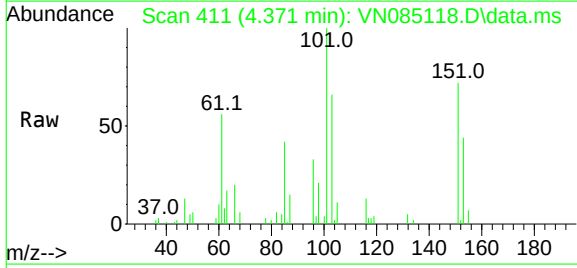
Tgt Ion: 74 Resp: 21832
 Ion Ratio Lower Upper
 74 100
 45 93.2 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.343 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

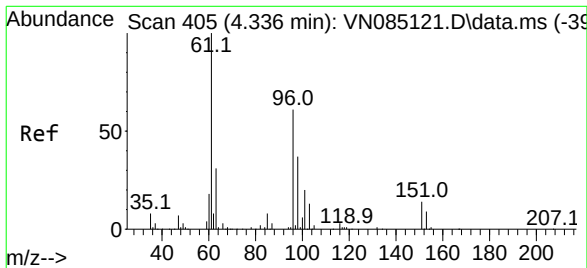
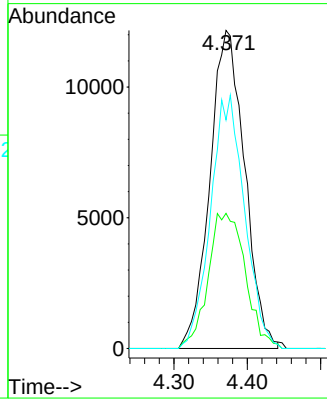
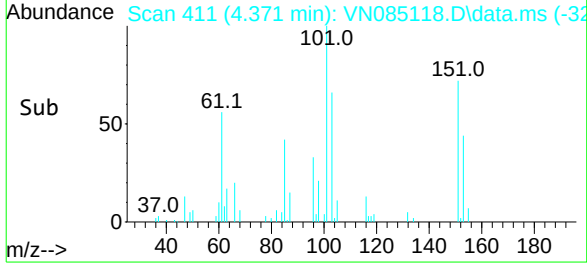
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 101 Resp: 40093
Ion Ratio Lower Upper
101 100
85 44.3 0.0 88.6
151 77.9 0.0 155.8

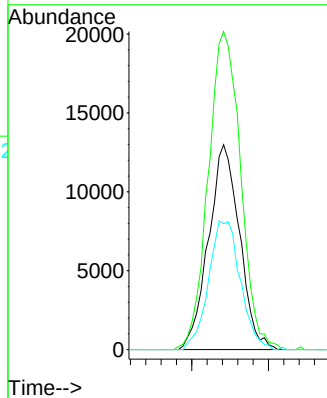
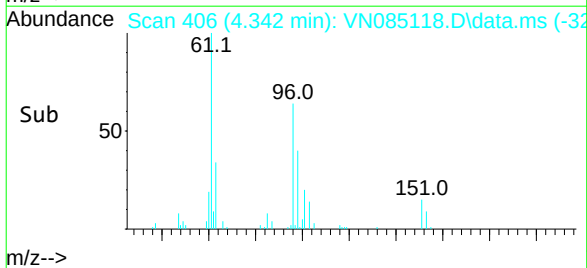
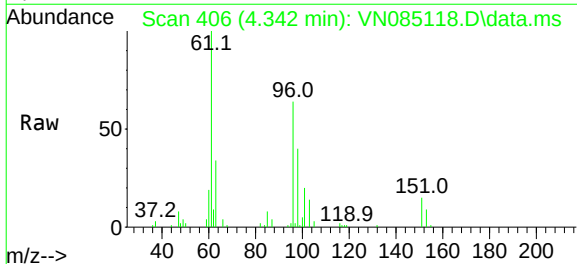
Manual Integrations
APPROVED

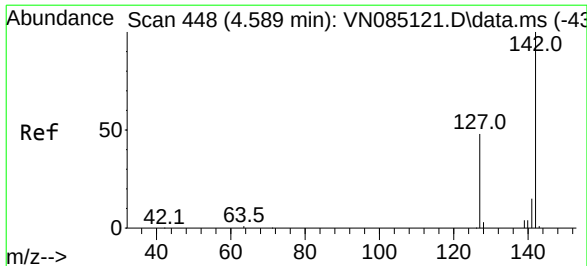
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#10
1,1-Dichloroethene
Concen: 19.181 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 96 Resp: 36518
Ion Ratio Lower Upper
96 100
61 153.7 123.0 184.4
98 61.4 49.1 73.7





#11

Methyl Iodide

Concen: 18.514 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN085118.D

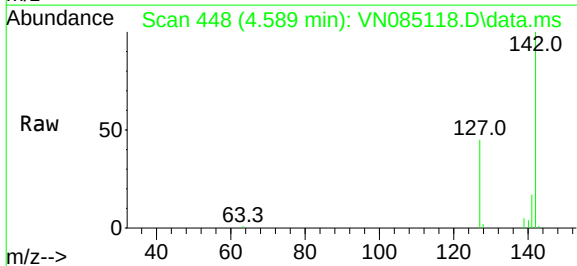
Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

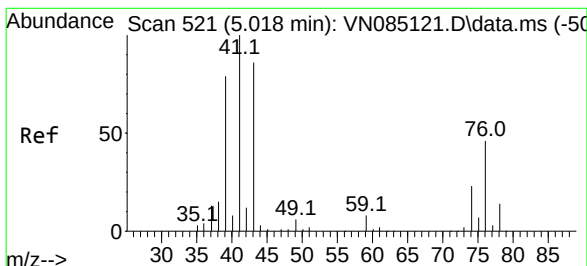
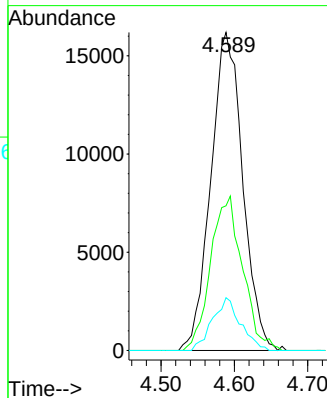
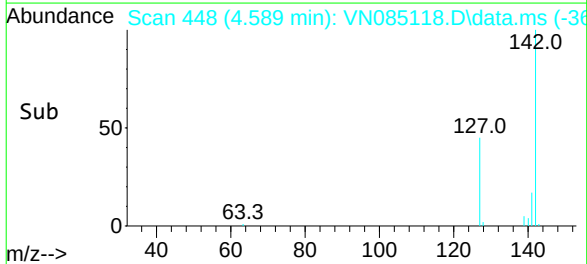


Tgt Ion:	142	Resp:	48887
Ion	Ratio	Lower	Upper
142	100		
127	45.0	22.5	67.5
141	16.6	8.3	24.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#12

Methyl Acetate

Concen: 19.131 ug/l

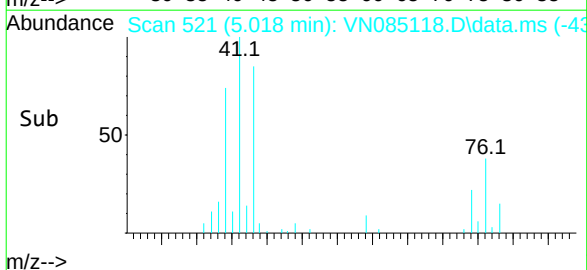
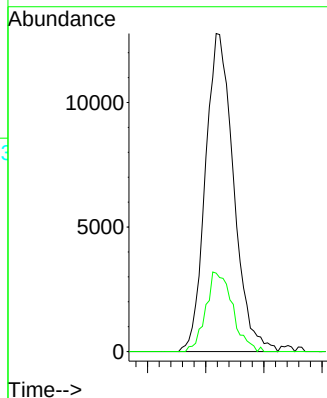
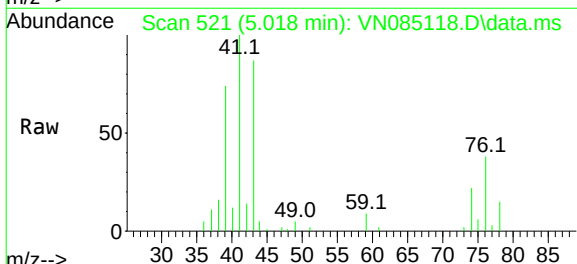
RT: 5.018 min Scan# 521

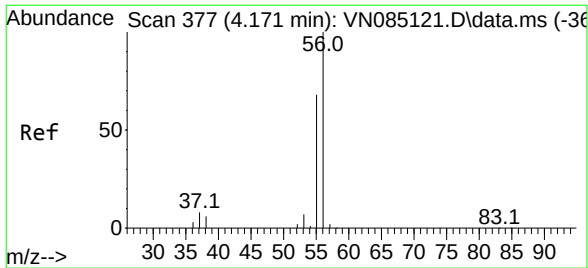
Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Tgt Ion:	43	Resp:	42971
Ion	Ratio	Lower	Upper
43	100		
74	24.7	19.8	29.6





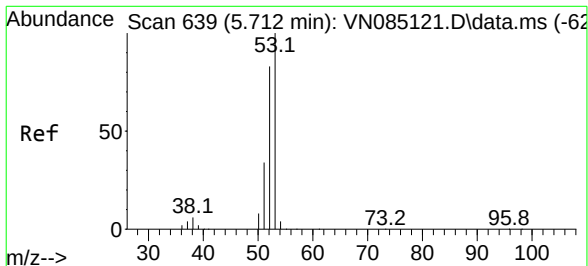
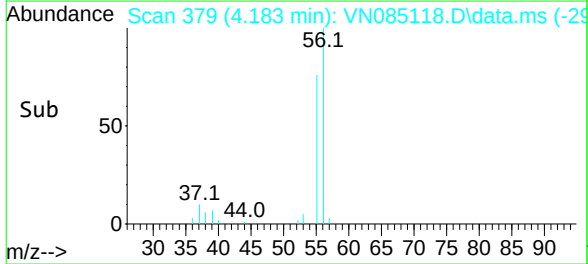
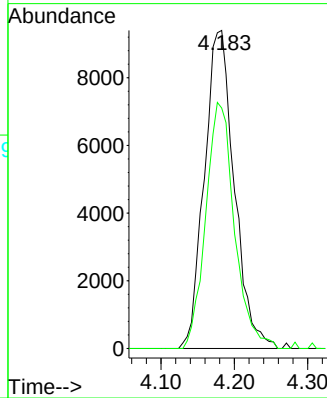
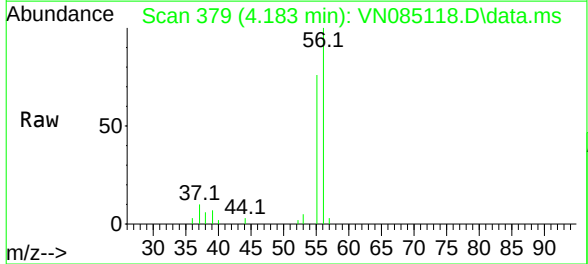
#13
Acrolein
Concen: 81.540 ug/l
RT: 4.183 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 56 Resp: 26615
Ion Ratio Lower Upper
56 100
55 74.2 59.4 89.0

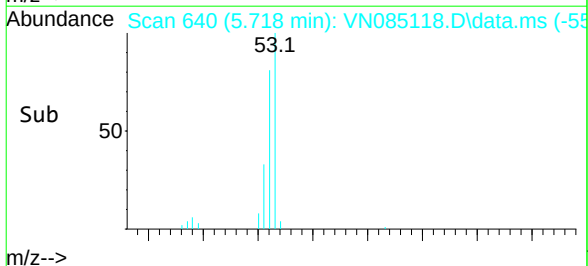
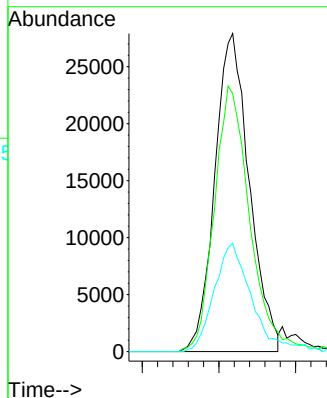
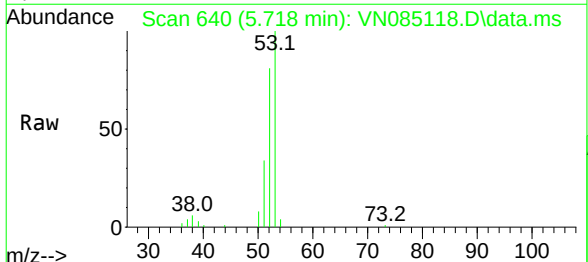
Manual Integrations
APPROVED

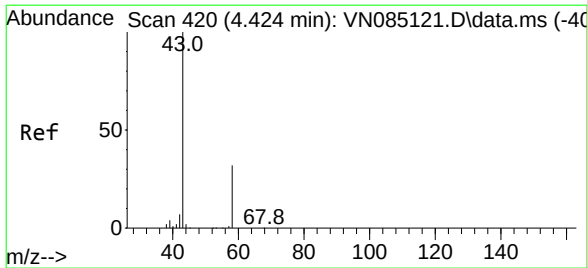
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#14
Acrylonitrile
Concen: 93.488 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 53 Resp: 87191
Ion Ratio Lower Upper
53 100
52 85.7 42.9 128.5
51 34.3 17.2 51.5





#15

Acetone

Concen: 94.168 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 58 Resp: 23800

Ion Ratio Lower Upper

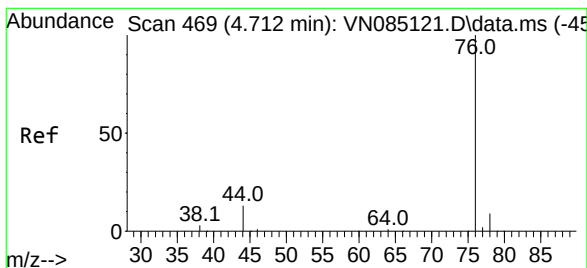
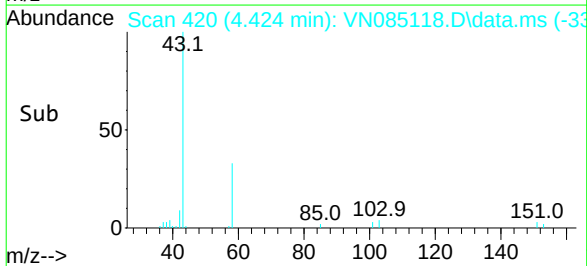
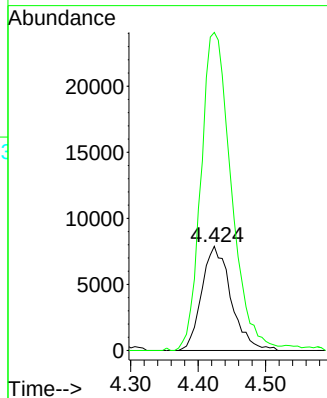
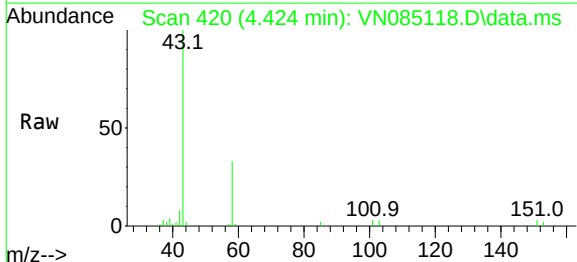
58 100

43 302.9 242.3 363.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#16

Carbon Disulfide

Concen: 19.659 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085118.D

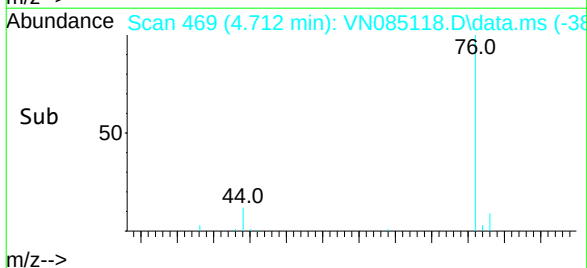
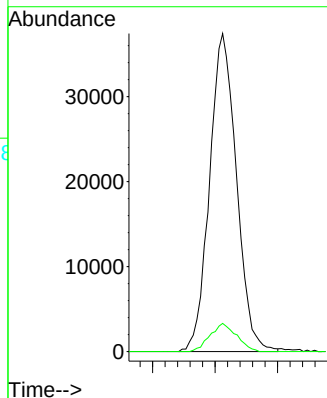
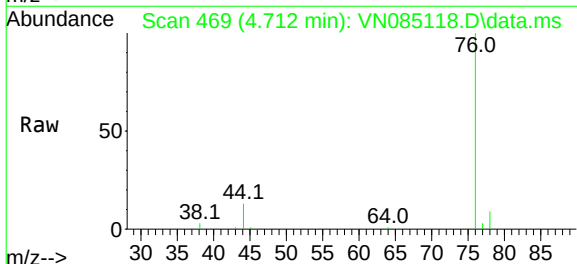
Acq: 06 Dec 2024 10:26

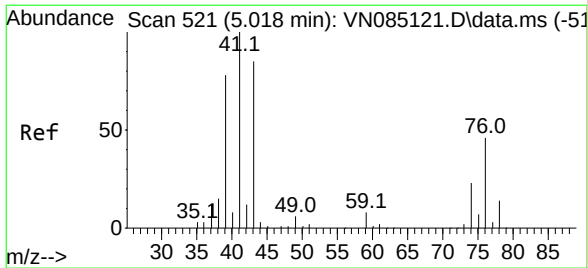
Tgt Ion: 76 Resp: 111875

Ion Ratio Lower Upper

76 100

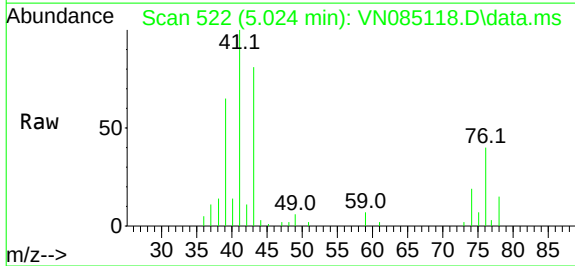
78 8.9 7.1 10.7





#17
Allyl chloride
Concen: 18.351 ug/l
RT: 5.024 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

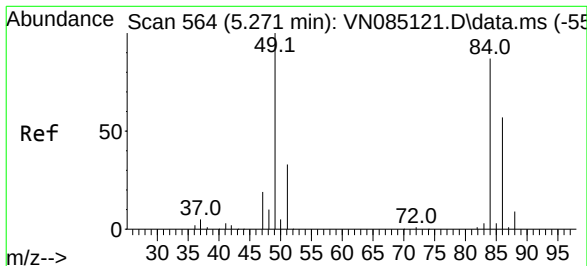
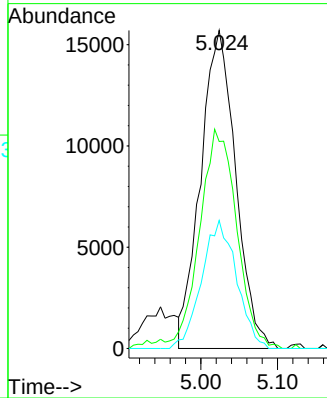
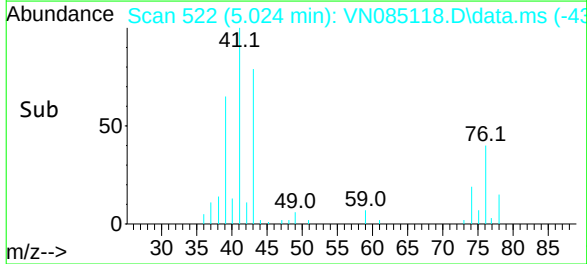
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 41 Resp: 49995
Ion Ratio Lower Upper
41 100
39 64.1 32.0 96.2
76 40.3 20.2 60.5

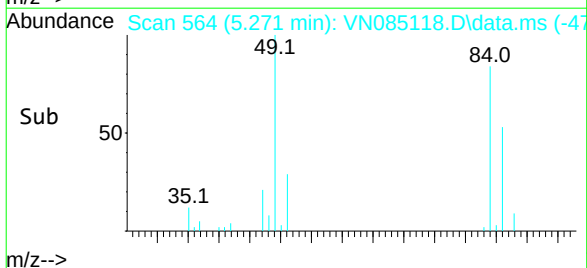
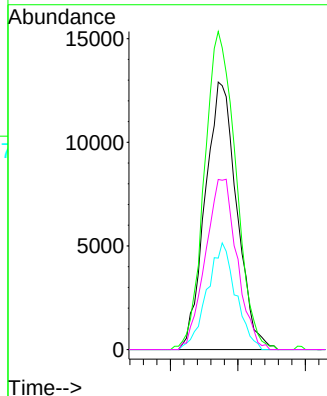
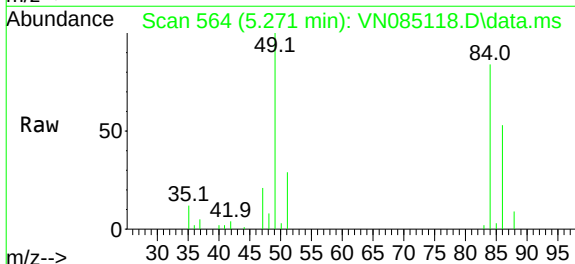
Manual Integrations
APPROVED

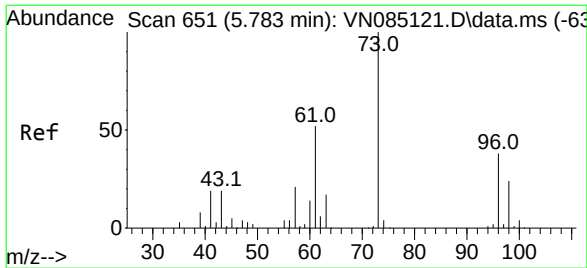
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#18
Methylene Chloride
Concen: 19.412 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

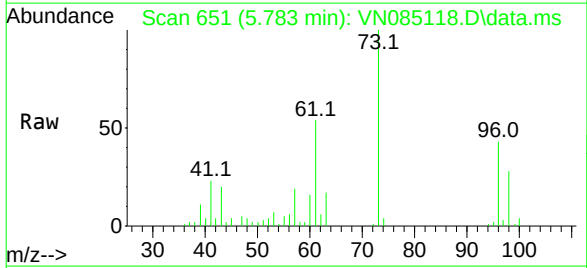
Tgt Ion: 84 Resp: 41937
Ion Ratio Lower Upper
84 100
49 118.9 95.1 142.7
51 34.2 27.4 41.0
86 63.6 50.9 76.3





#19
trans-1,2-Dichloroethene
Concen: 18.942 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

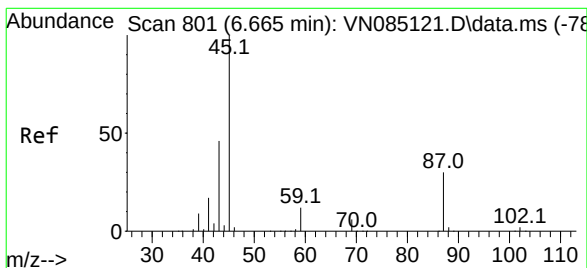
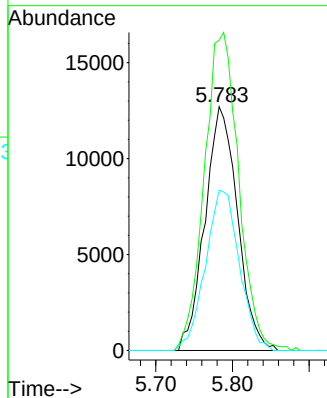
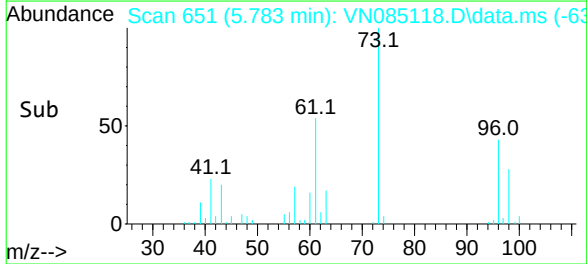
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



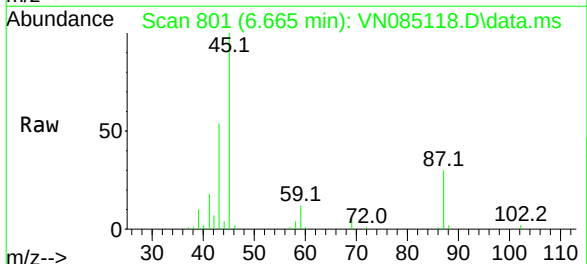
Tgt Ion: 96 Resp: 37486
Ion Ratio Lower Upper
96 100
61 125.5 100.4 150.6
98 65.8 52.6 79.0

Manual Integrations
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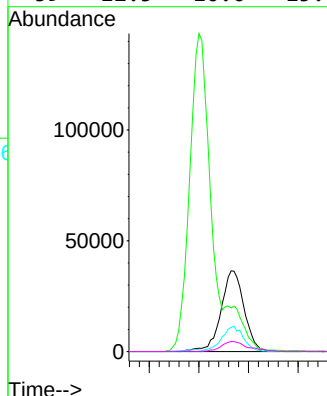
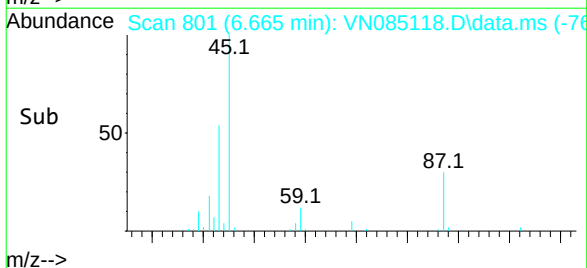
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

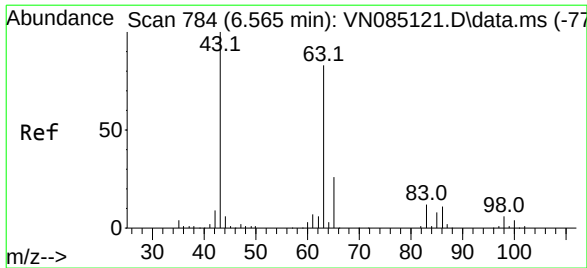


#20
Diisopropyl ether
Concen: 19.776 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26



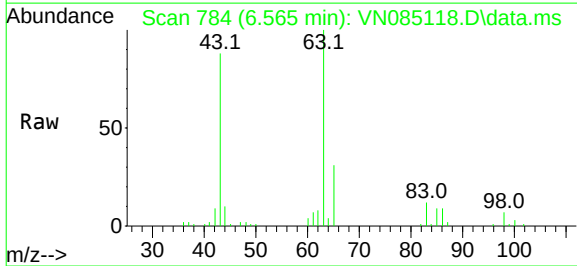
Tgt Ion: 45 Resp: 118238
Ion Ratio Lower Upper
45 100
43 52.4 41.9 62.9
87 30.1 24.1 36.1
59 12.5 10.0 15.0





#21
1,1-Dichloroethane
Concen: 19.296 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

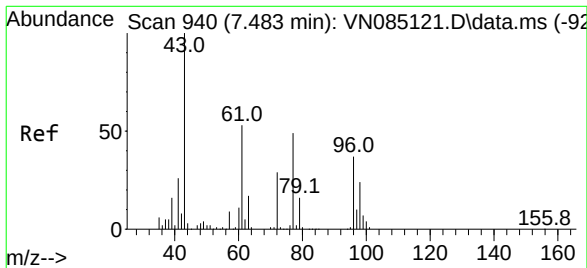
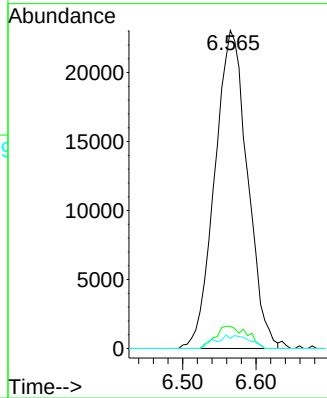
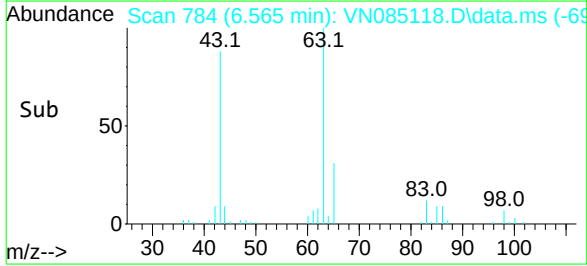
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



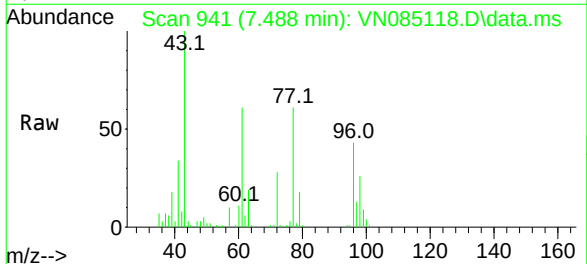
Tgt Ion: 63 Resp: 71204
Ion Ratio Lower Upper
63 100
98 6.9 3.5 10.4
100 3.2 1.6 4.8

Manual Integrations
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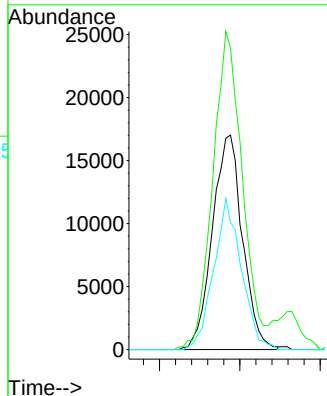
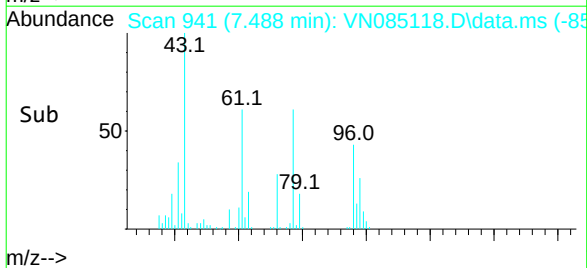
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

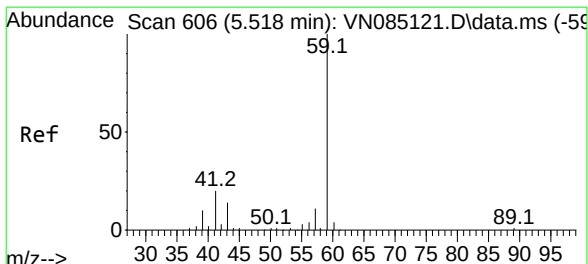


#22
cis-1,2-Dichloroethene
Concen: 19.471 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26



Tgt Ion: 96 Resp: 44288
Ion Ratio Lower Upper
96 100
61 144.9 115.9 173.9
98 64.8 51.8 77.8





#23
tert-Butyl Alcohol
Concen: 91.438 ug/l
RT: 5.512 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

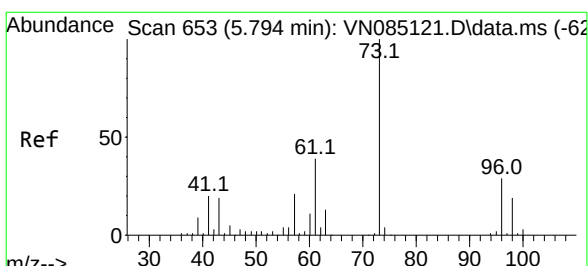
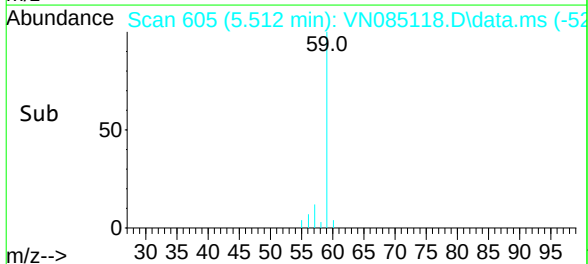
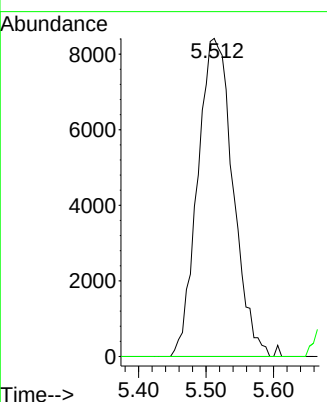
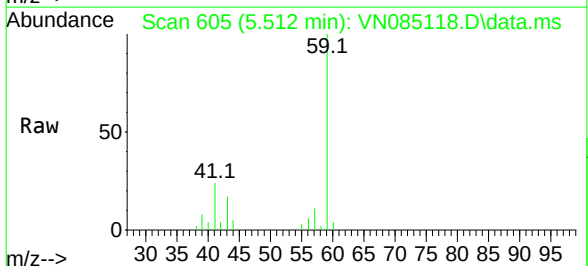
ClientSampleId :

VSTDICCC020

Tgt Ion: 59	Resp: 30593
Ion Ratio	Lower Upper
59 100	
52 0.0	0.0 0.0

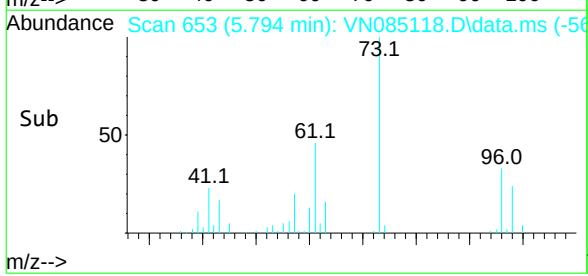
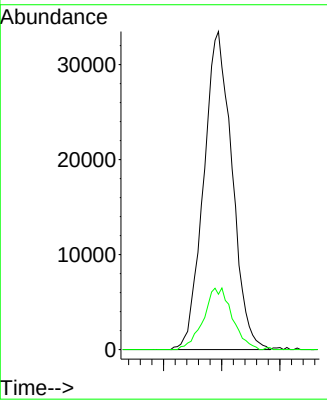
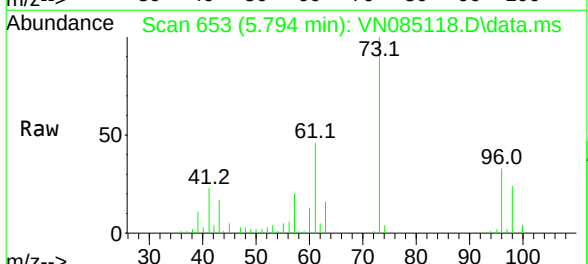
Manual Integrations
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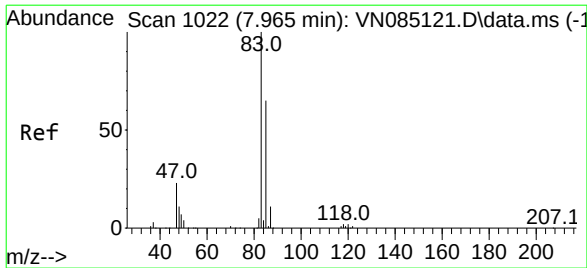
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#24
Methyl tert-Butyl Ether
Concen: 19.125 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 73	Resp: 113672
Ion Ratio	Lower Upper
73 100	
43 10.9	8.7 13.1





#25

Chloroform

Concen: 19.596 ug/l

RT: 7.959 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

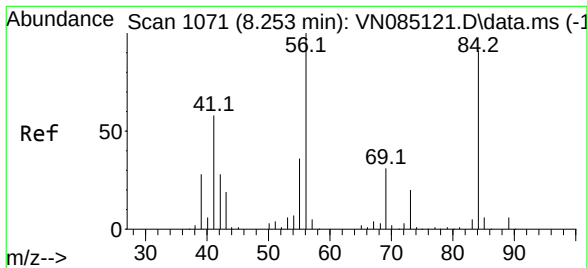
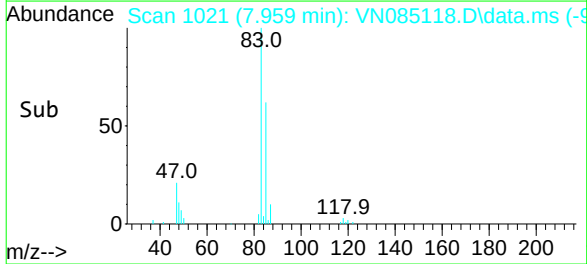
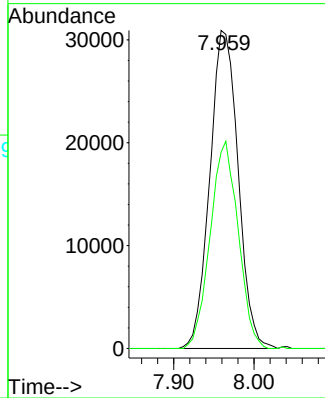
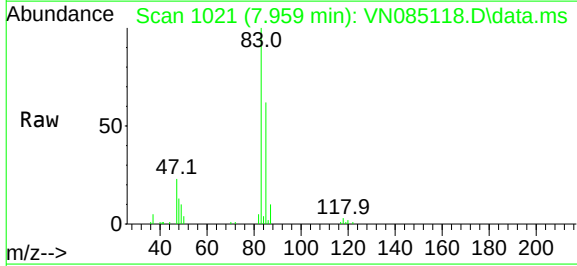
VSTDICCC020

Tgt Ion: 83 Resp: 75756
 Ion Ratio Lower Upper
 83 100
 85 61.7 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#26

Cyclohexane

Concen: 20.061 ug/l

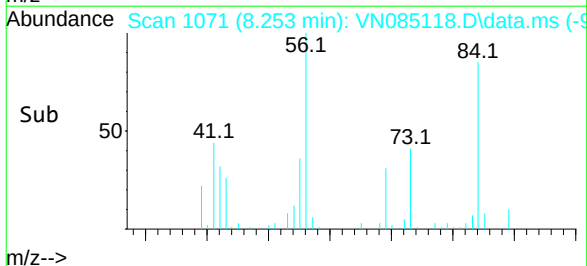
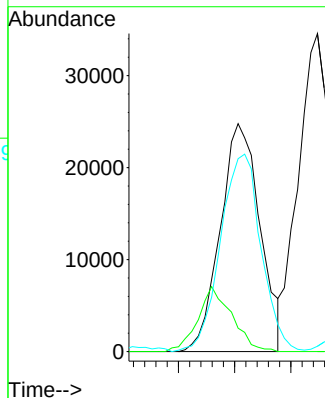
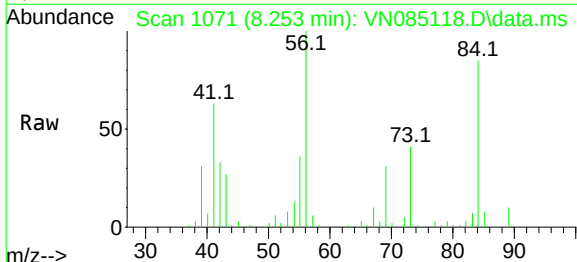
RT: 8.253 min Scan# 1071

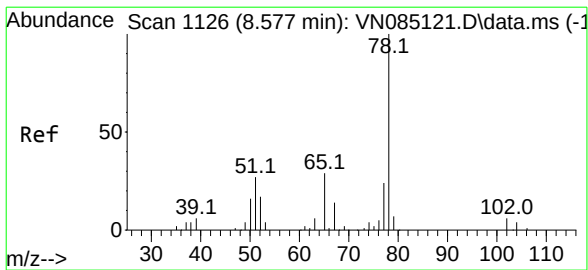
Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Tgt Ion: 56 Resp: 60954
 Ion Ratio Lower Upper
 56 100
 89 24.4 19.5 29.3
 84 88.2 70.6 105.8





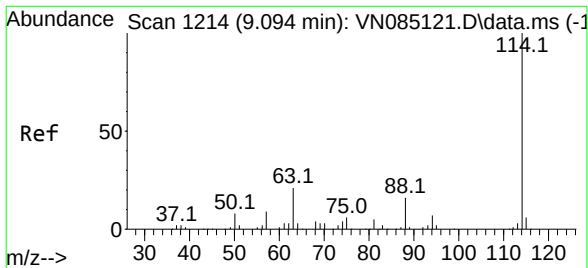
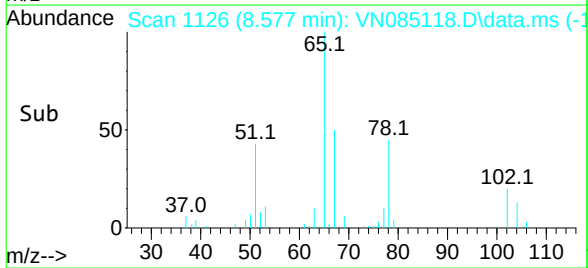
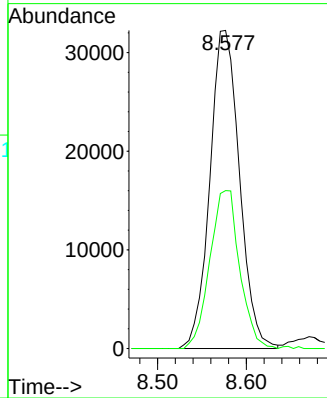
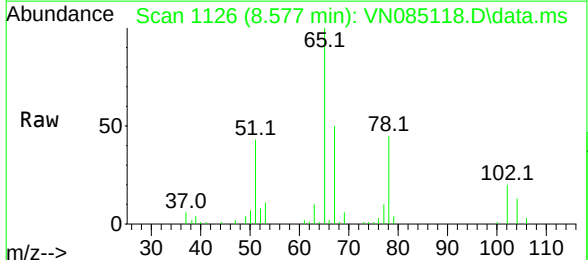
#27
1,2-Dichloroethane-d4
Concen: 30.155 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 65 Resp: 74804
Ion Ratio Lower Upper
65 100
67 49.9 39.9 59.9

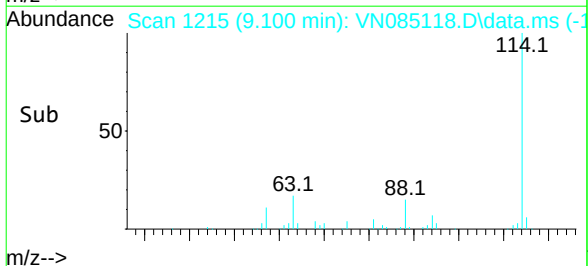
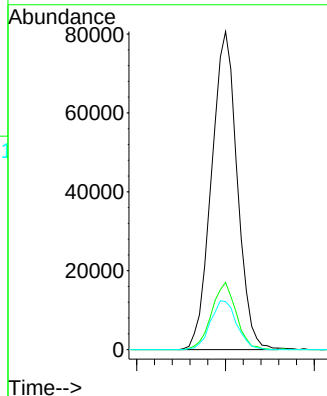
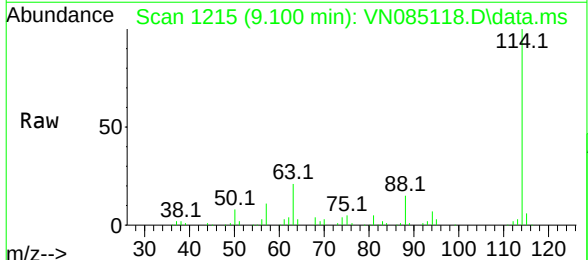
Manual Integrations
APPROVED

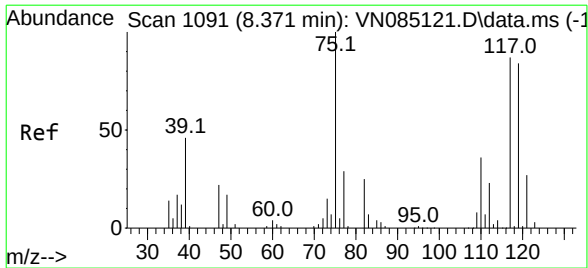
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:114 Resp: 162398
Ion Ratio Lower Upper
114 100
63 20.2 16.2 24.2
88 15.6 12.5 18.7





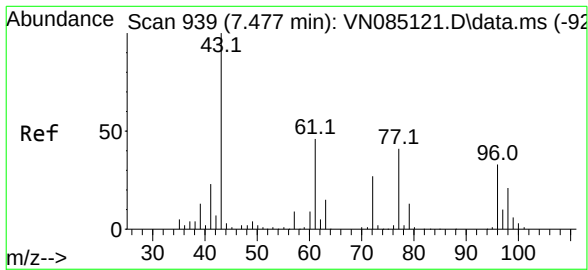
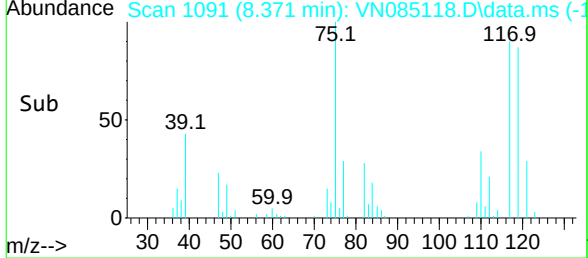
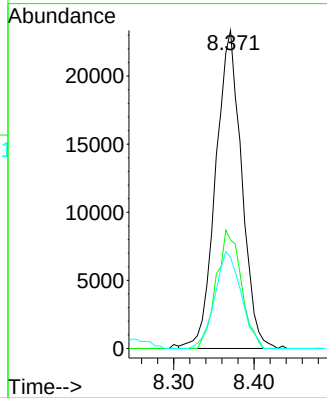
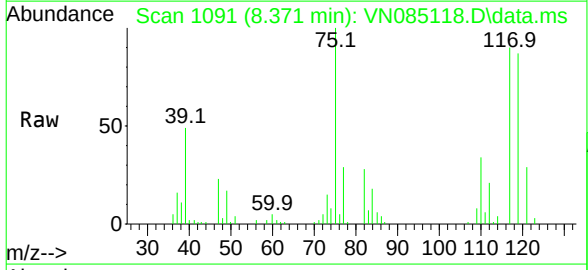
#29
1,1-Dichloropropene
Concen: 19.930 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 75	Resp: 52226
Ion Ratio	Lower Upper
75 100	
110 35.8	0.0 71.6
77 31.1	0.0 62.2

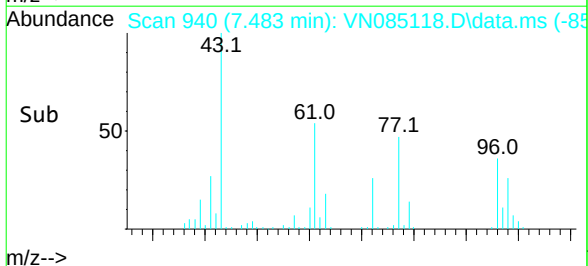
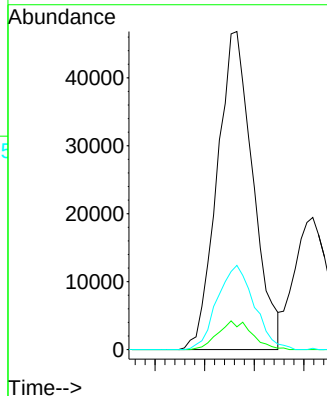
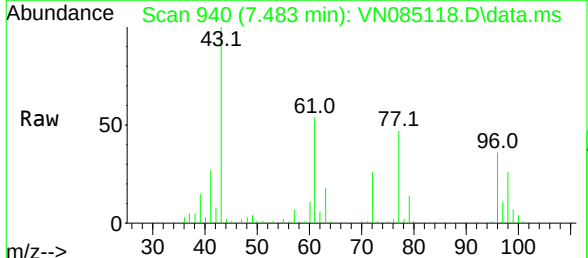
Manual Integrations
APPROVED

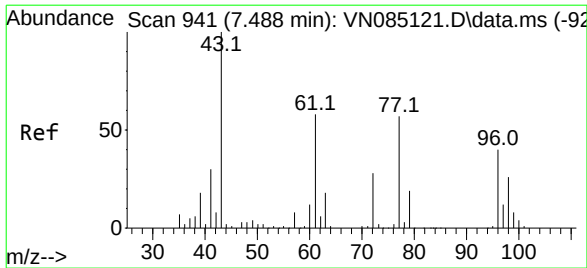
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#30
2-Butanone
Concen: 97.739 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 43	Resp: 117537
Ion Ratio	Lower Upper
43 100	
57 8.6	6.9 10.3
72 27.3	21.8 32.8





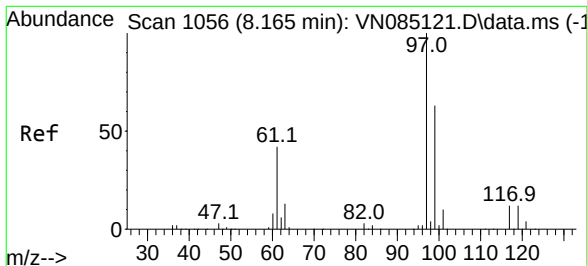
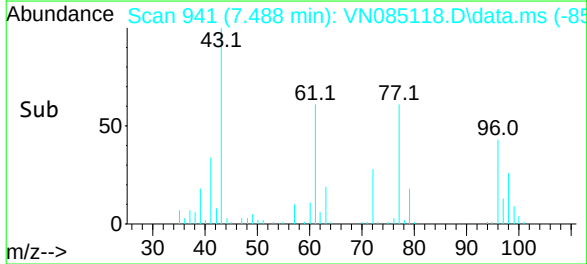
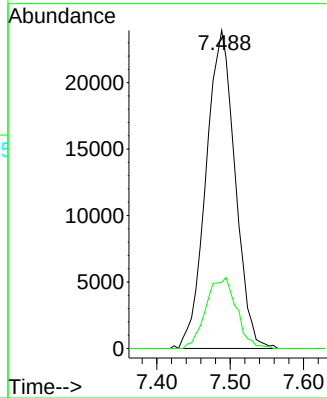
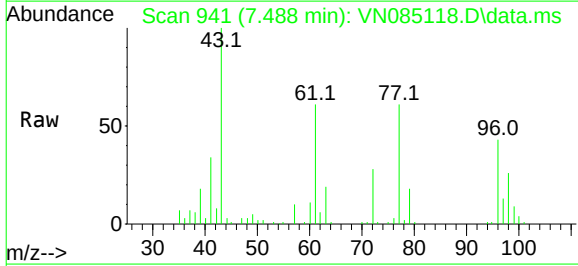
#31
2,2-Dichloropropane
Concen: 19.575 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 77 Resp: 65781
Ion Ratio Lower Upper
77 100
97 0.0 0.0 0.0

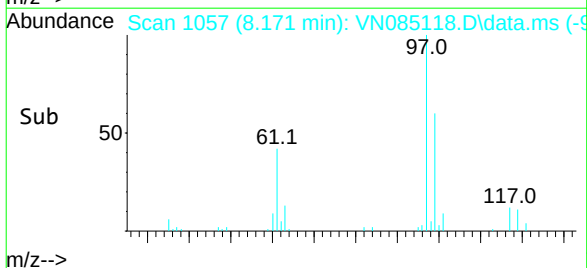
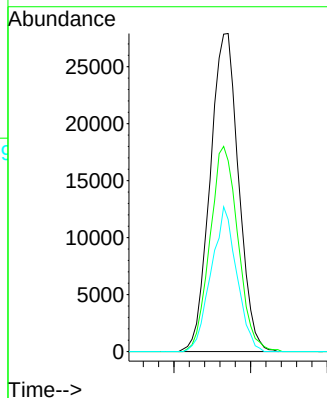
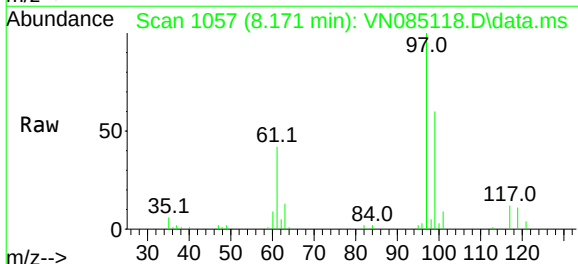
Manual Integrations
APPROVED

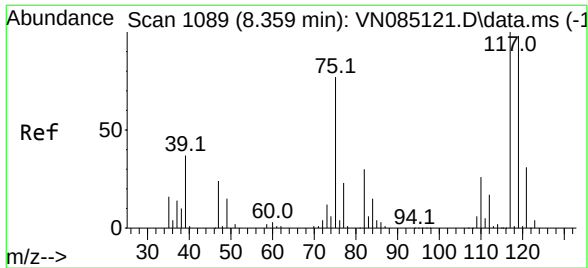
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#32
1,1,1-Trichloroethane
Concen: 20.293 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

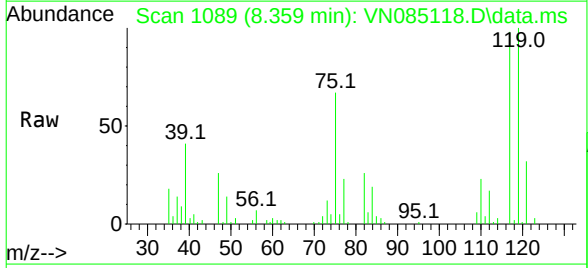
Tgt Ion: 97 Resp: 71977
Ion Ratio Lower Upper
97 100
99 63.5 50.8 76.2
61 40.9 32.7 49.1





#33
Carbon Tetrachloride
Concen: 19.861 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

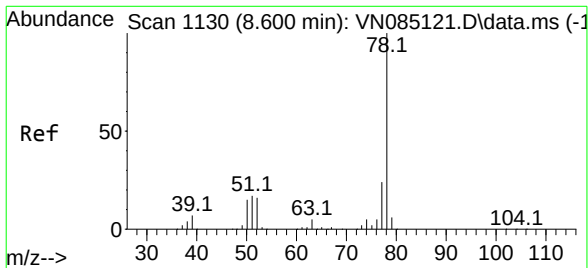
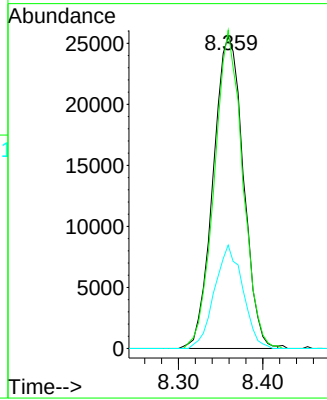
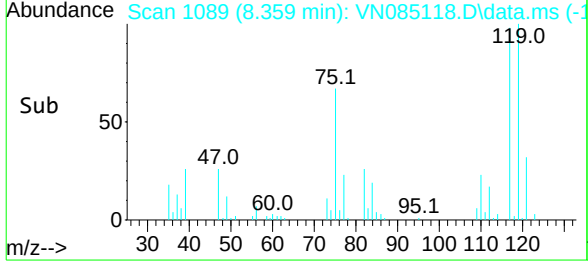
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



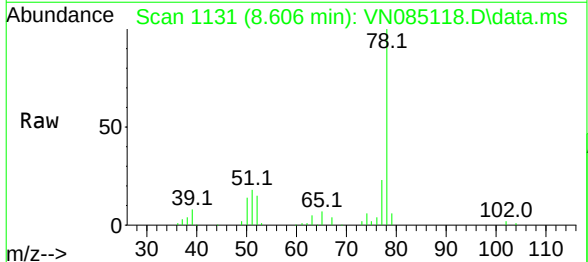
Tgt Ion: 117 Resp: 63567
Ion Ratio Lower Upper
117 100
119 102.0 81.6 122.4
121 33.1 26.5 39.7

Manual Integrations
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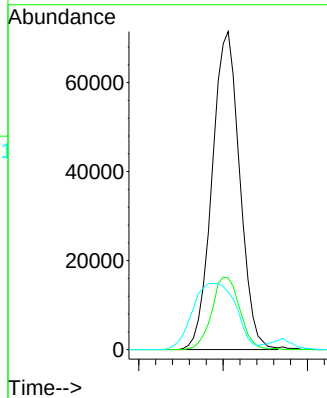
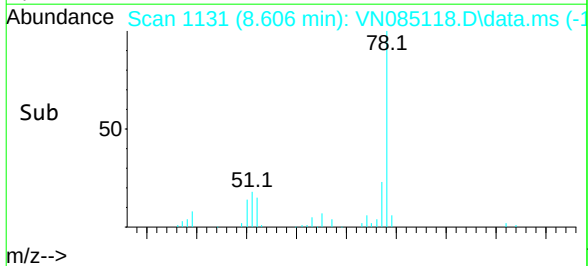
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

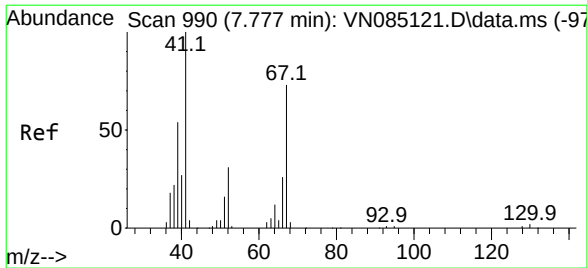


#34
Benzene
Concen: 19.740 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26



Tgt Ion: 78 Resp: 162502
Ion Ratio Lower Upper
78 100
77 22.5 18.0 27.0
51 15.5 12.4 18.6





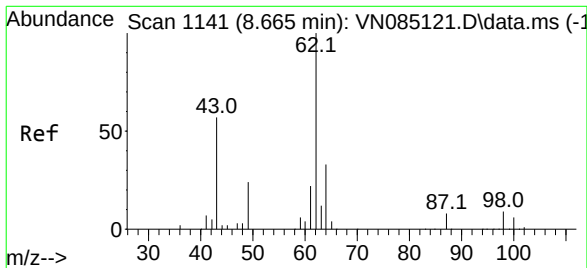
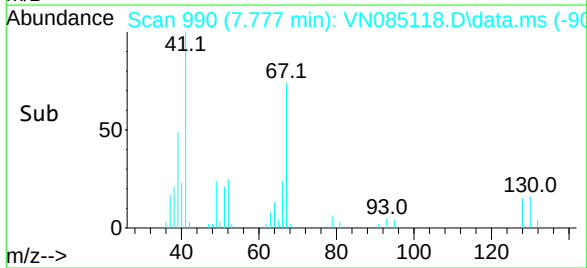
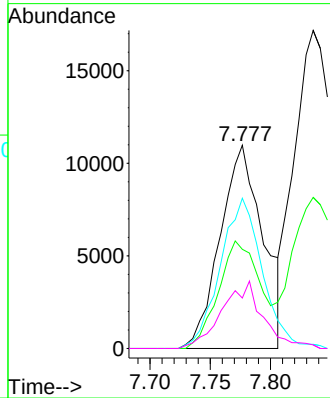
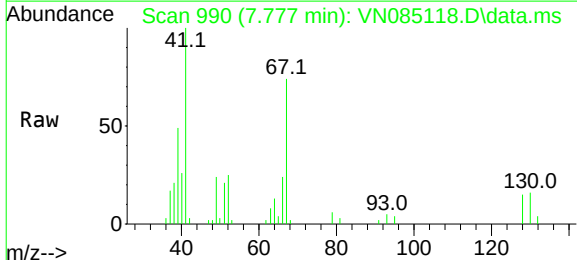
#35
Methacrylonitrile
Concen: 20.040 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:	41	Resp:	27120
Ion	Ratio	Lower	Upper
41	100		
39	48.8	24.4	73.2
67	73.9	37.0	110.9
52	24.8	12.4	37.2

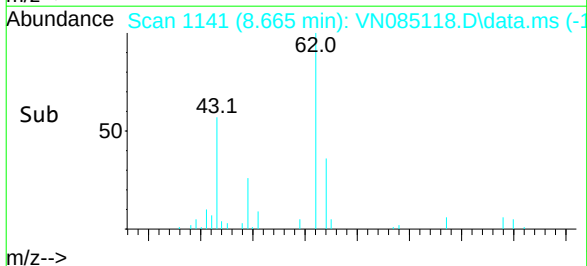
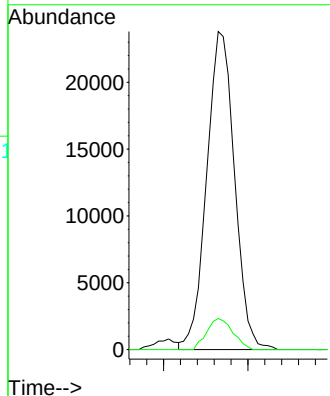
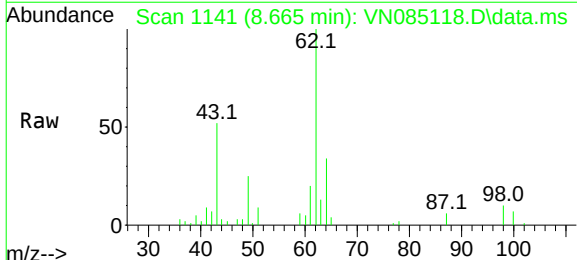
Manual Integrations
APPROVED

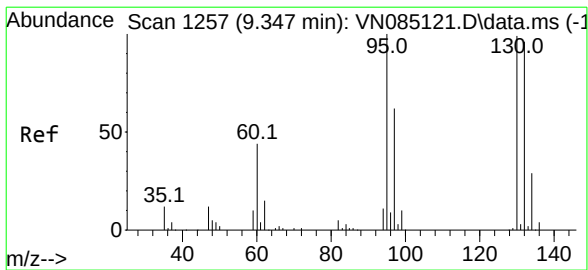
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#36
1,2-Dichloroethane
Concen: 19.494 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

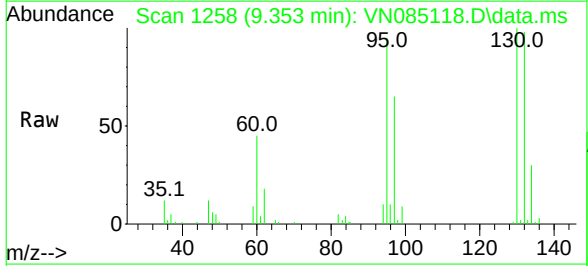
Tgt Ion:	62	Resp:	54631
Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.3	10.9





#37
Trichloroethene
Concen: 19.667 ug/l
RT: 9.353 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

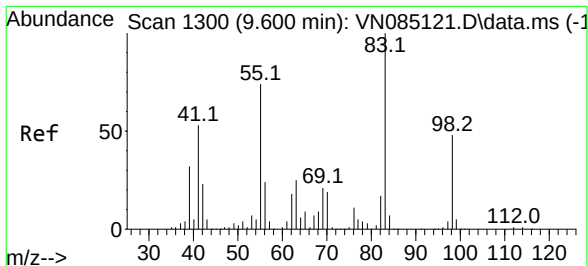
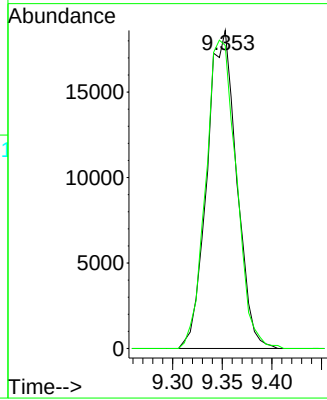
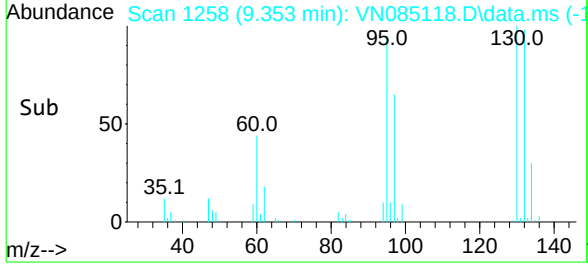
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:130 Resp: 38555
Ion Ratio Lower Upper
130 100
95 95.3 76.2 114.4

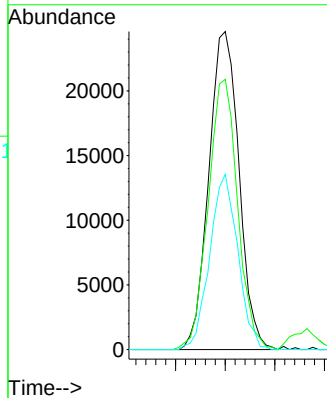
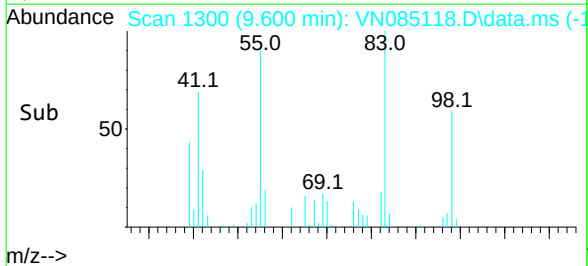
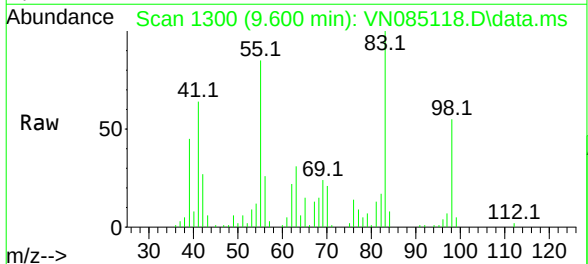
Manual Integrations
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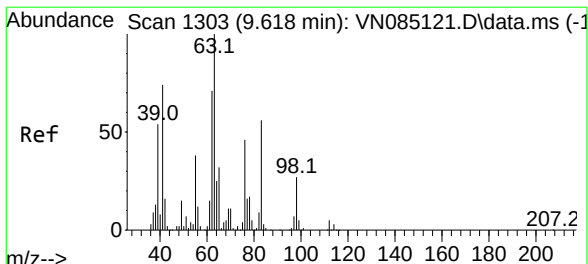
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#38
Methylcyclohexane
Concen: 18.261 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

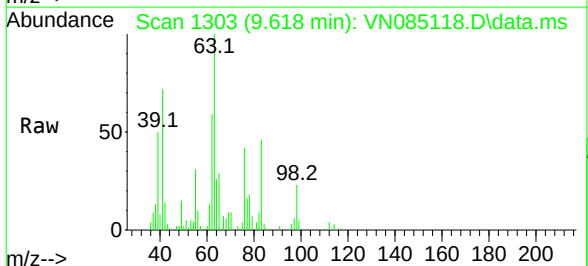
Tgt Ion: 83 Resp: 52032
Ion Ratio Lower Upper
83 100
55 82.9 41.4 124.4
98 51.4 25.7 77.1





#39
 1,2-Dichloropropane
 Concen: 20.064 ug/l
 RT: 9.618 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

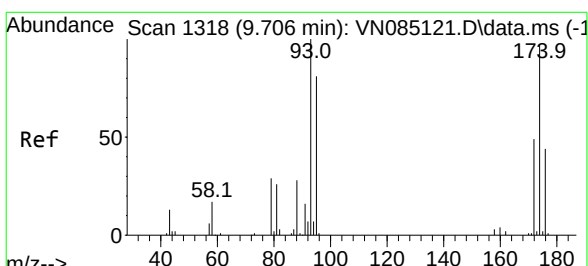
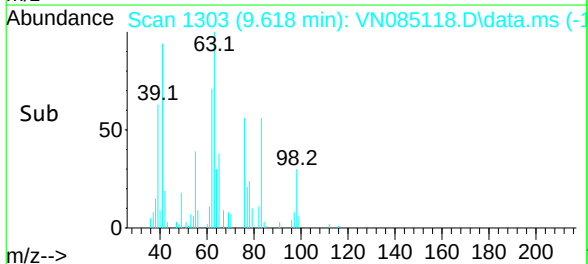
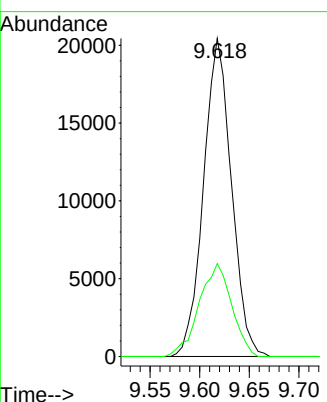
Instrument : MSVOA_N
 ClientSampleId : VSTDICCC020



Tgt Ion: 63 Resp: 40007

Ion	Ratio	Lower	Upper
63	100		
65	29.2	23.4	35.0

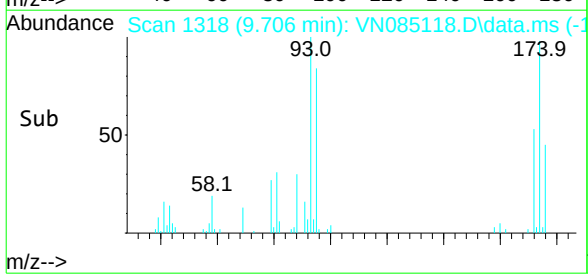
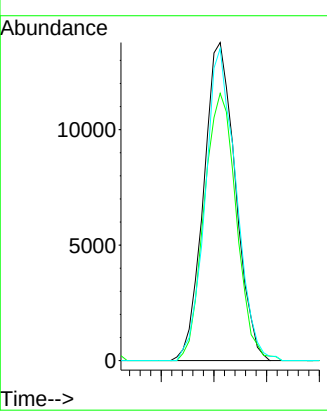
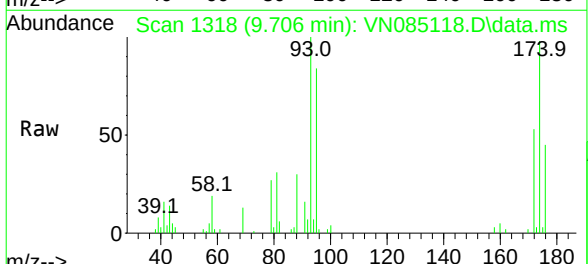
Manual Integrations
APPROVED
 Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

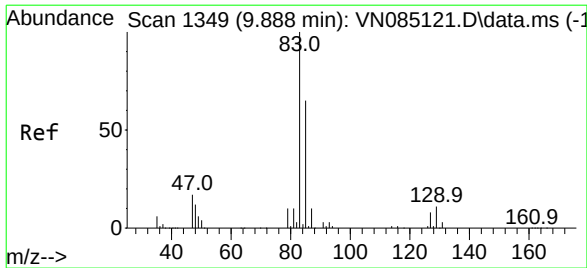


#40
 Dibromomethane
 Concen: 20.145 ug/l
 RT: 9.706 min Scan# 1318
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

Tgt Ion: 93 Resp: 28813

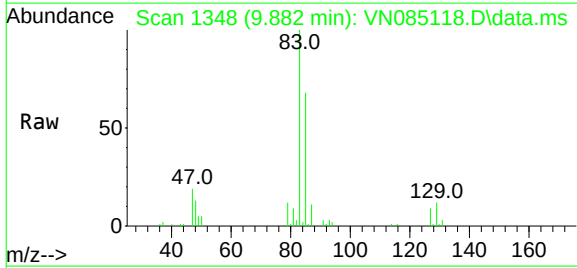
Ion	Ratio	Lower	Upper
93	100		
95	84.7	0.0	169.4
174	94.9	0.0	189.8





#41
Bromodichloromethane
Concen: 19.628 ug/l
RT: 9.882 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

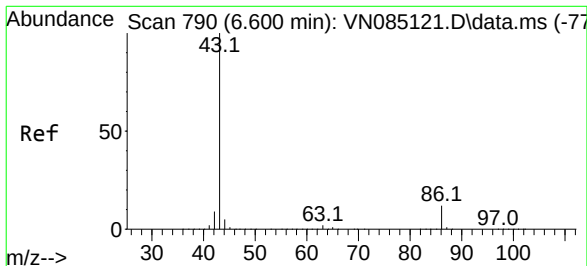
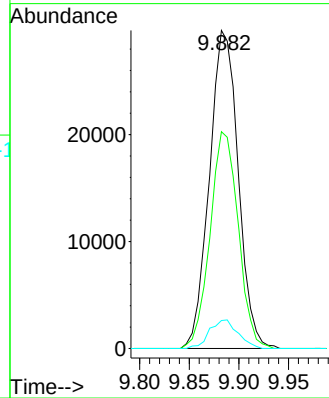
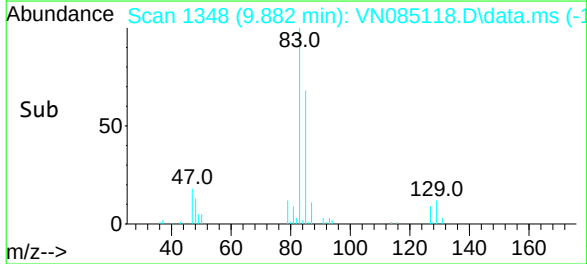
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 83 Resp: 60013
Ion Ratio Lower Upper
83 100
85 68.2 54.6 81.8
127 8.8 7.0 10.6

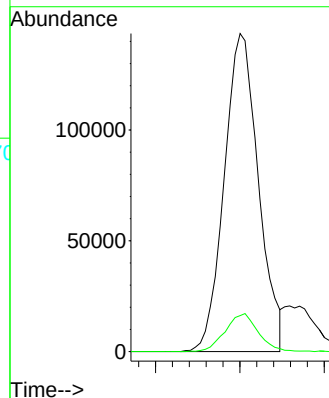
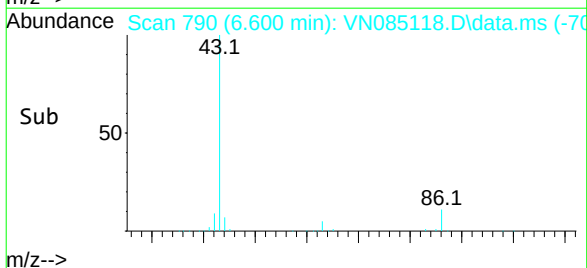
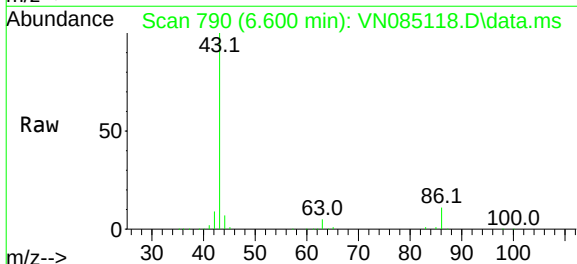
Manual Integrations
APPROVED

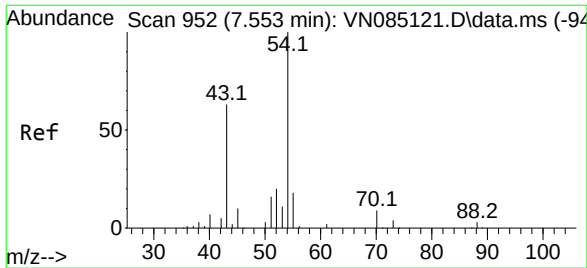
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#42
Vinyl Acetate
Concen: 96.136 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 43 Resp: 404546
Ion Ratio Lower Upper
43 100
86 11.5 9.2 13.8





#43

Ethyl Acetate

Concen: 18.276 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 43730

Ion Ratio Lower Upper

43 100

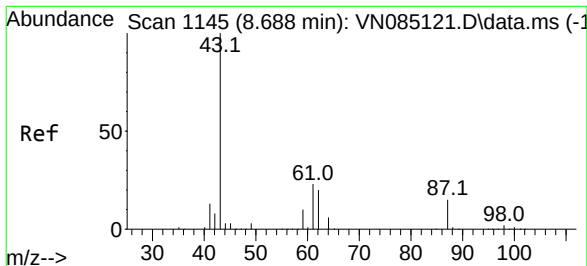
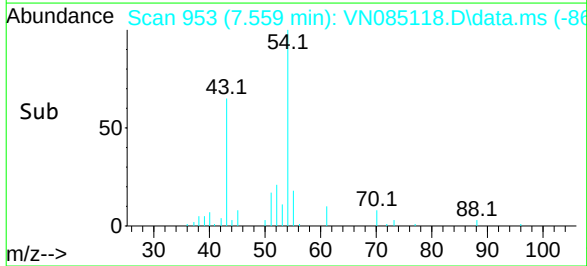
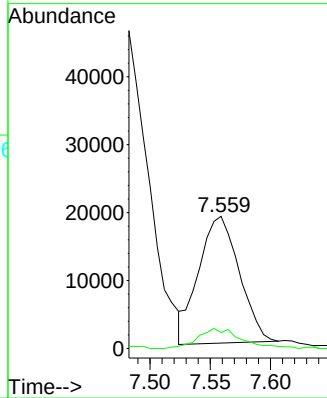
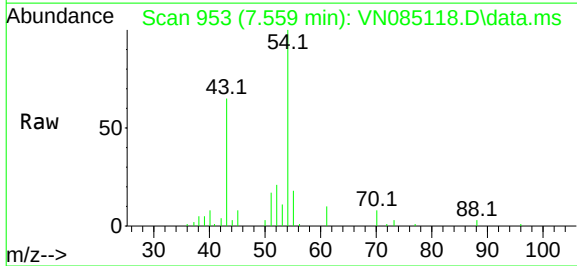
45 16.6 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#44

Isopropyl Acetate

Concen: 19.412 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN085118.D

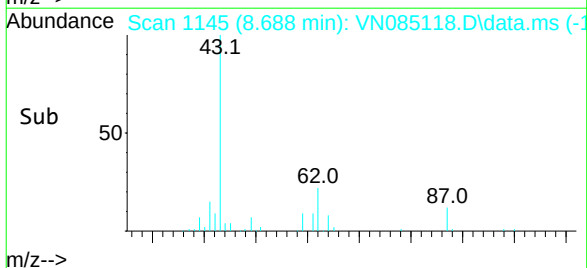
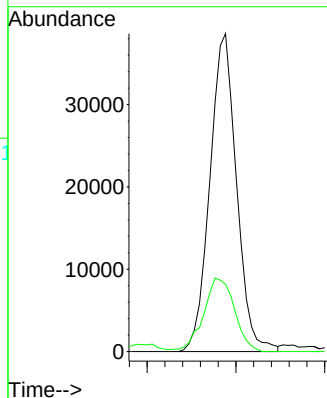
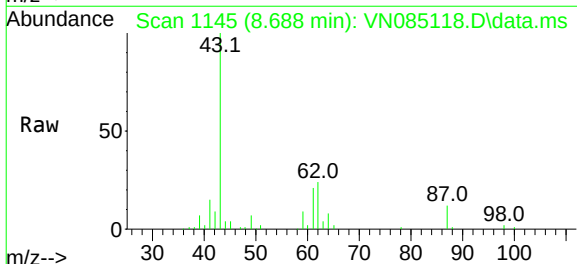
Acq: 06 Dec 2024 10:26

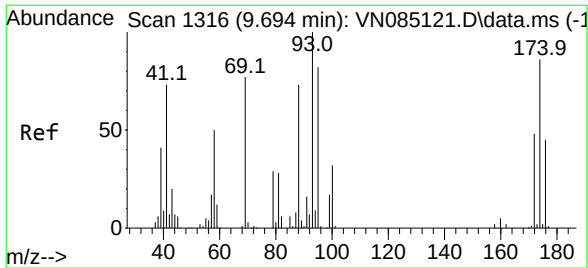
Tgt Ion: 43 Resp: 80717

Ion Ratio Lower Upper

43 100

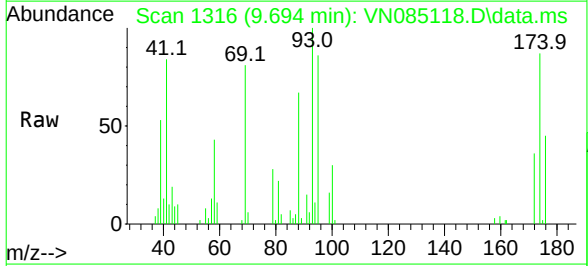
61 26.9 21.5 32.3





#45
1,4-Dioxane
Concen: 403.408 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

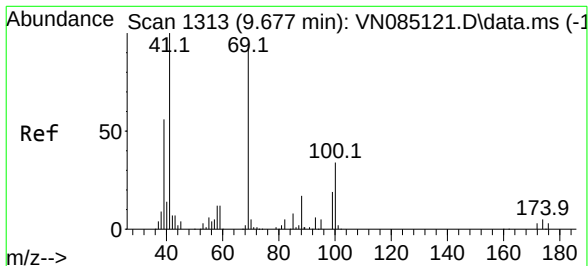
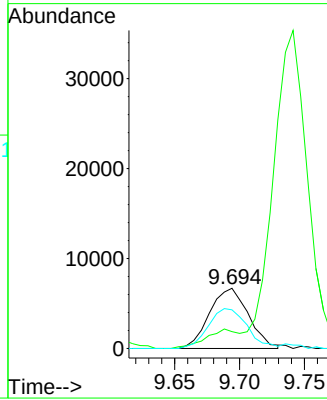
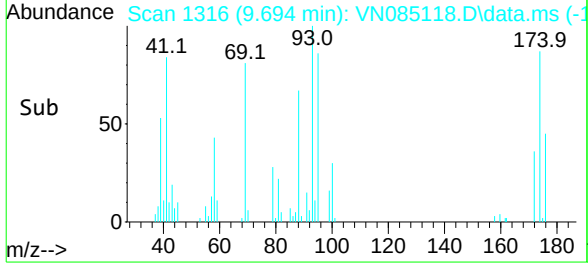
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



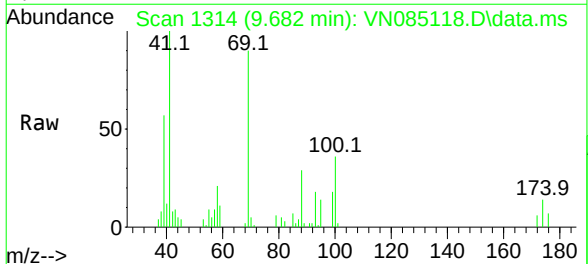
Tgt Ion: 88 Resp: 13988
Ion Ratio Lower Upper
88 100
43 27.1 21.7 32.5
58 65.8 52.6 79.0

Manual Integrations
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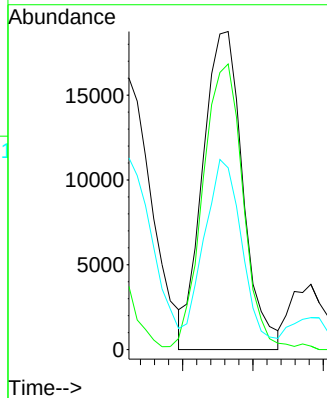
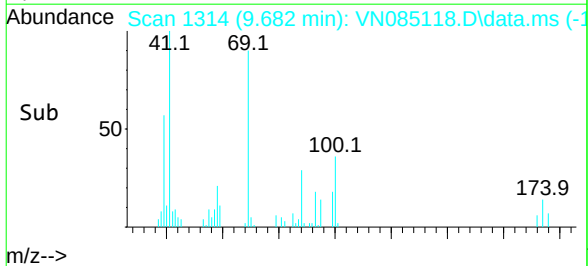
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

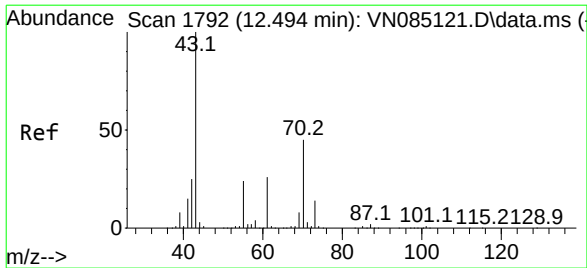


#46
Methyl methacrylate
Concen: 19.535 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26



Tgt Ion: 41 Resp: 37174
Ion Ratio Lower Upper
41 100
69 93.3 46.7 140.0
39 57.0 28.5 85.5





#47

n-amy1 Acetate

Concen: 19.154 ug/l

RT: 12.494 min Scan# 17

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 67009

Ion Ratio Lower Upper

43 100

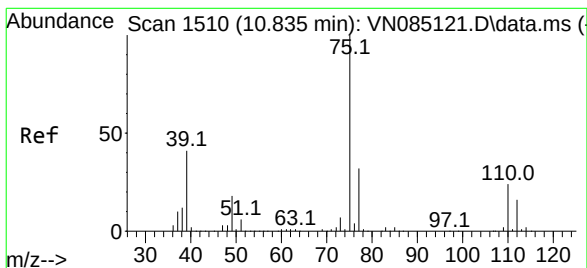
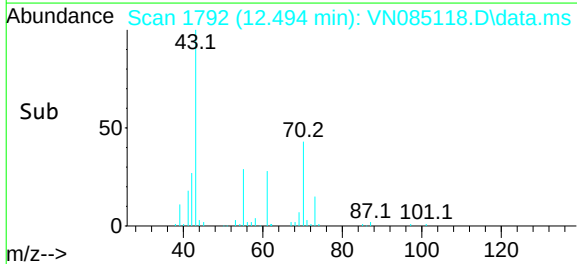
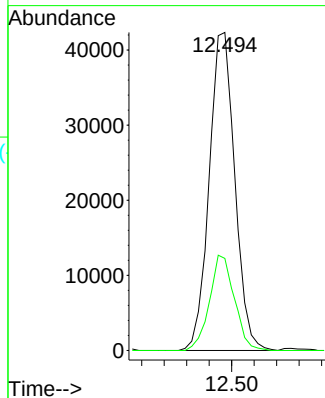
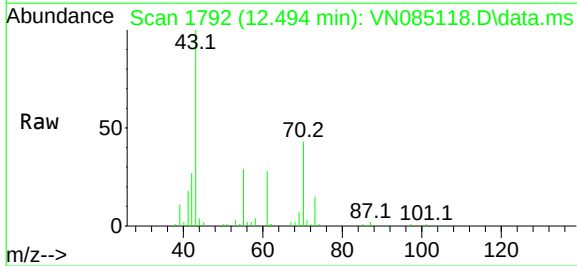
55 29.1 23.3 34.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#48

t-1,3-Dichloropropene

Concen: 18.657 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085118.D

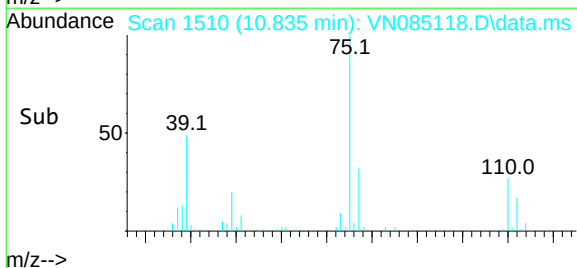
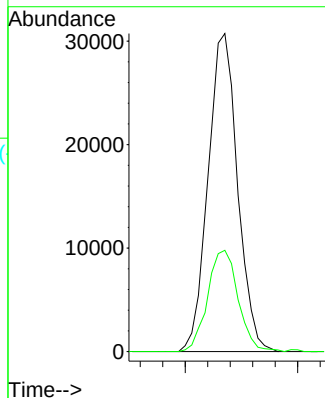
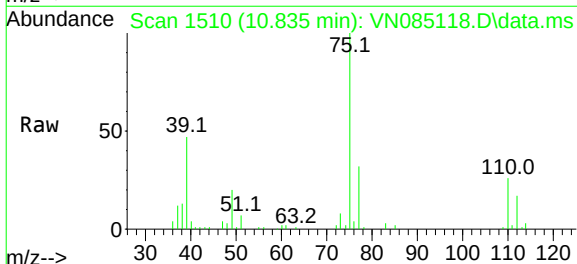
Acq: 06 Dec 2024 10:26

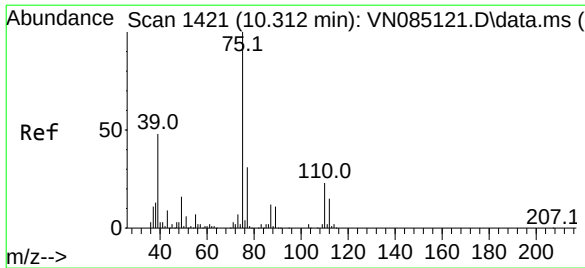
Tgt Ion: 75 Resp: 55998

Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3





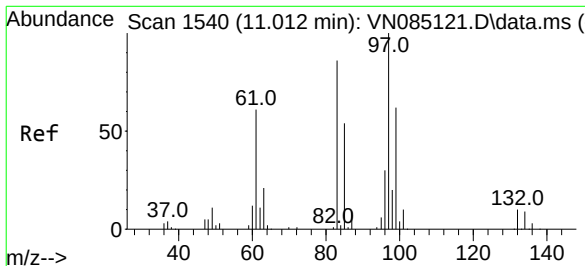
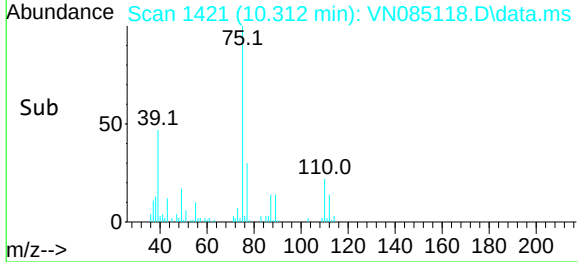
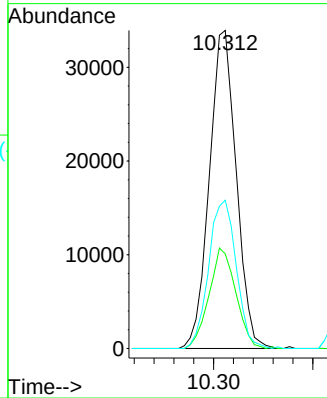
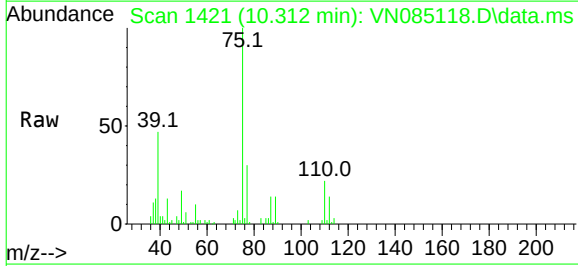
#49
cis-1,3-Dichloropropene
Concen: 19.540 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 75	Resp: 63845
Ion Ratio	Lower Upper
75 100	
77 29.7	23.8 35.6
39 46.6	37.3 55.9

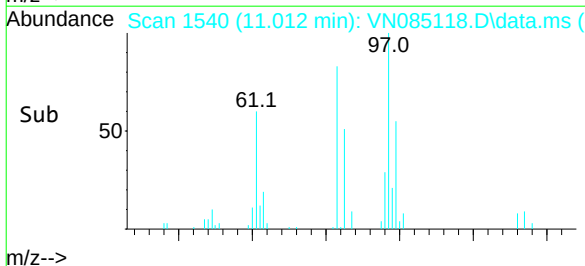
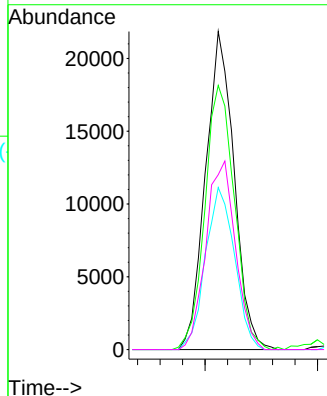
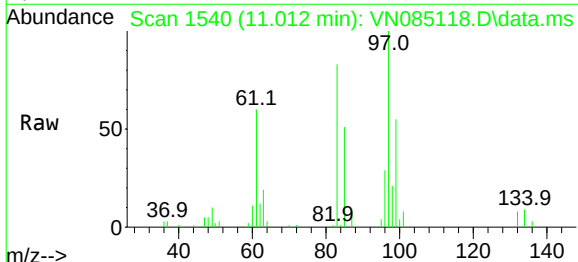
Manual Integrations
APPROVED

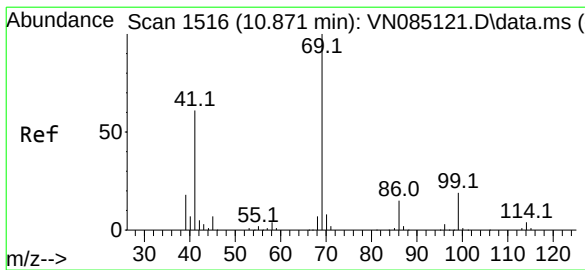
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#50
1,1,2-Trichloroethane
Concen: 19.958 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 97	Resp: 38466
Ion Ratio	Lower Upper
97 100	
83 82.3	65.8 98.8
85 51.0	40.8 61.2
99 55.0	44.0 66.0





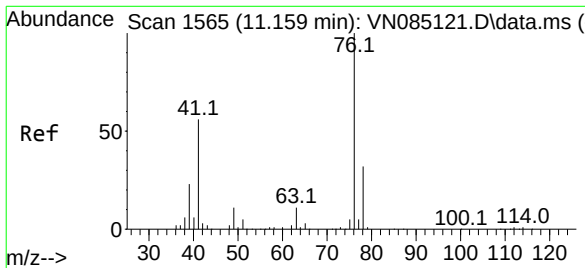
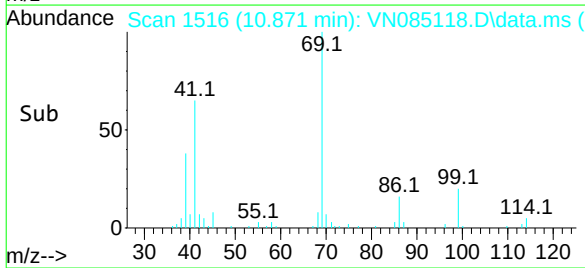
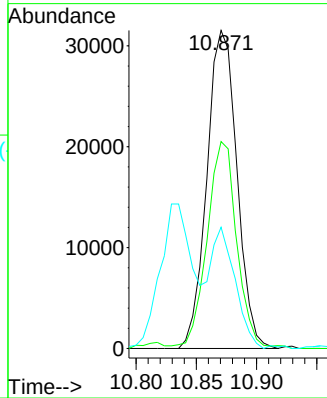
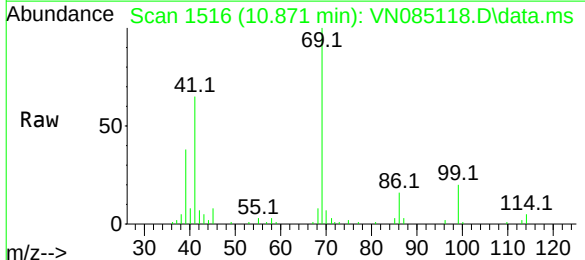
#51
Ethyl methacrylate
Concen: 18.696 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:	69	Resp:	54805
Ion	Ratio	Lower	Upper
69	100		
41	64.2	32.1	96.3
39	37.6	18.8	56.4

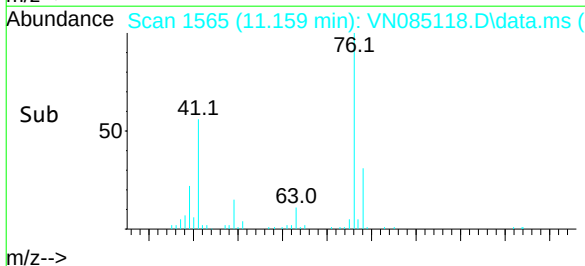
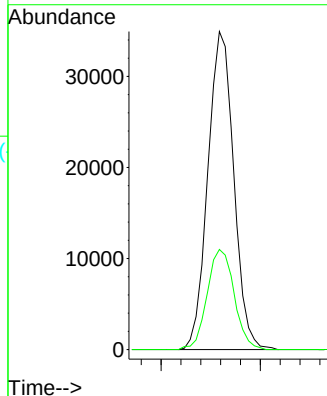
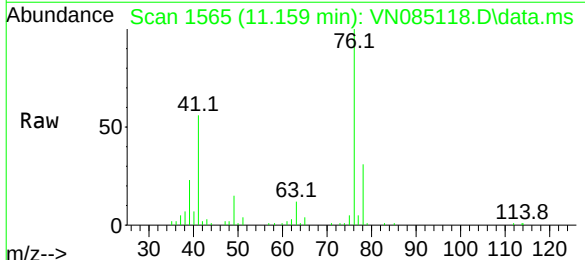
Manual Integrations
APPROVED

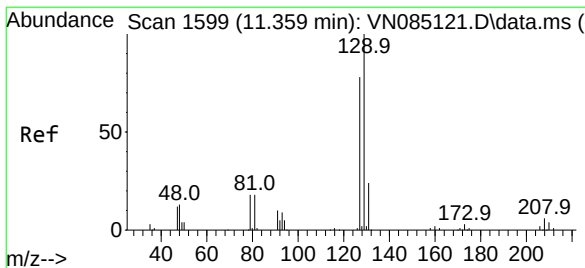
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#52
1,3-Dichloropropane
Concen: 19.634 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:	76	Resp:	63330
Ion	Ratio	Lower	Upper
76	100		
78	32.8	0.0	65.6





#53

Dibromochloromethane

Concen: 19.614 ug/l

RT: 11.353 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:129 Resp: 46068

Ion Ratio Lower Upper

129 100

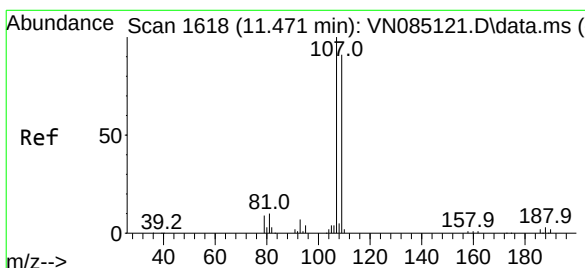
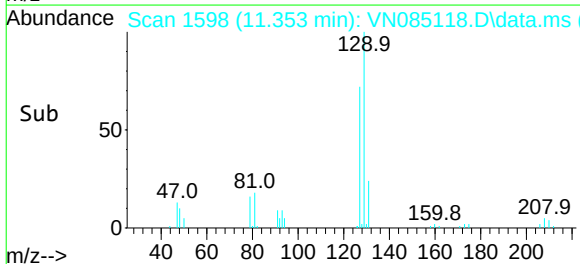
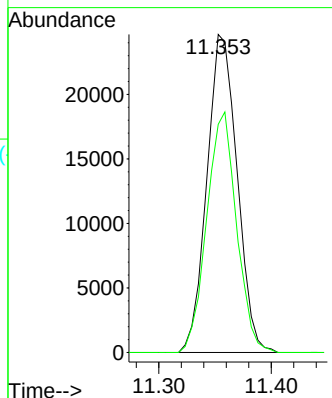
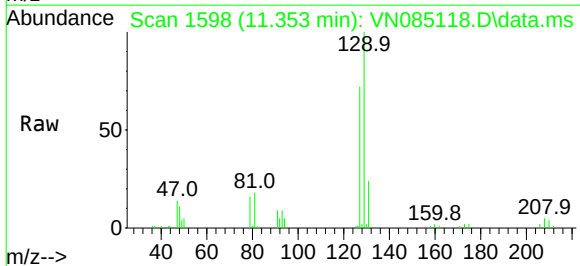
127 74.6 37.3 111.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#54

1,2-Dibromoethane

Concen: 19.376 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. 0.000 min

Lab File: VN085118.D

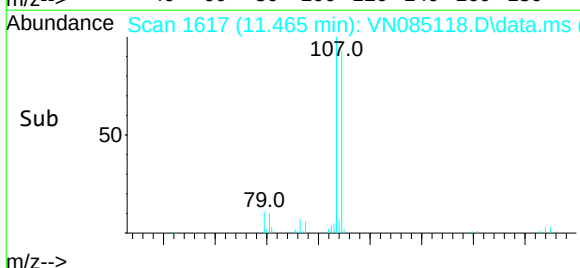
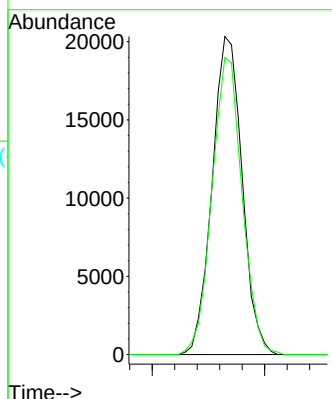
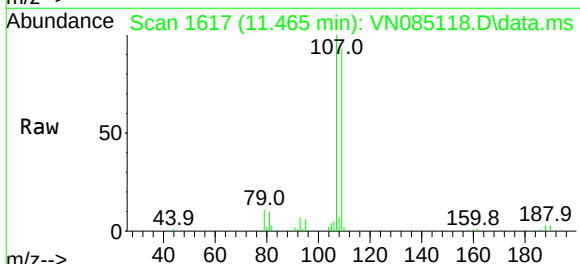
Acq: 06 Dec 2024 10:26

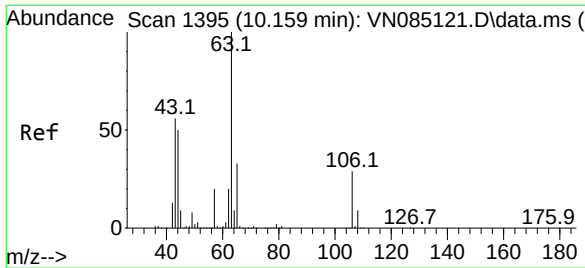
Tgt Ion:107 Resp: 37625

Ion Ratio Lower Upper

107 100

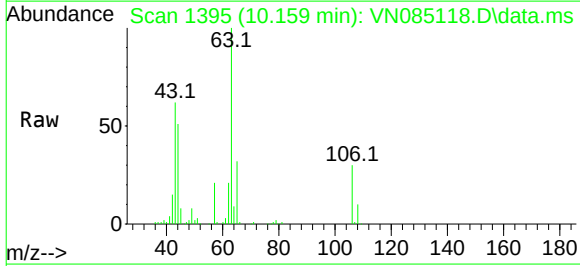
109 94.0 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 98.387 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

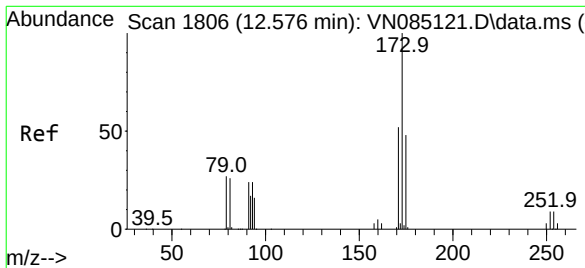
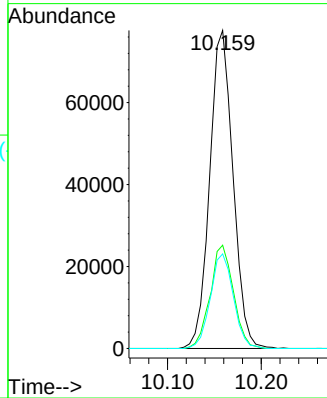
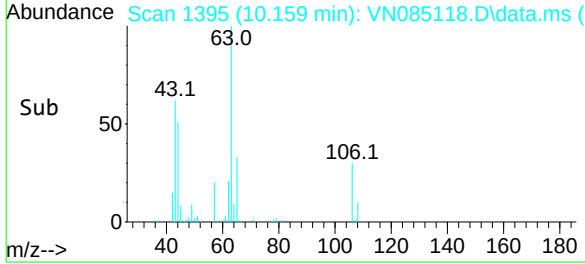
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



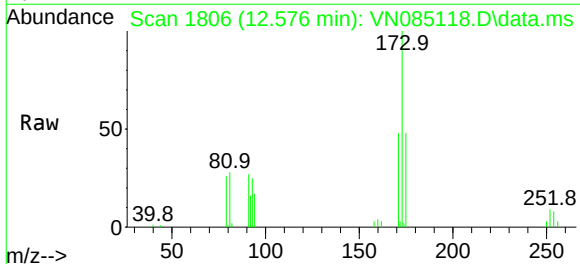
Tgt Ion: 63 Resp: 133977
Ion Ratio Lower Upper
63 100
65 32.4 25.9 38.9
106 29.4 23.5 35.3

Manual Integrations
APPROVED

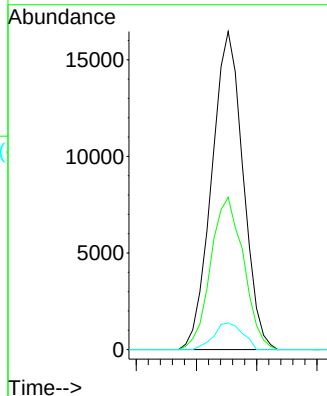
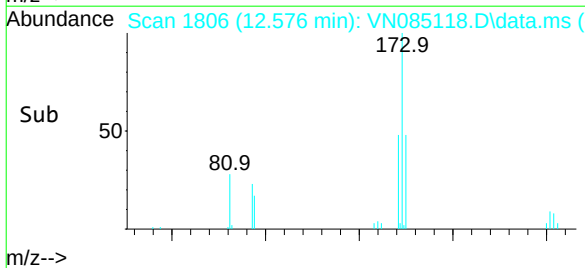
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

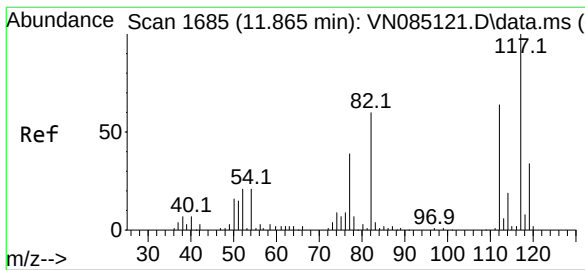


#56
Bromoform
Concen: 18.911 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26



Tgt Ion:173 Resp: 29780
Ion Ratio Lower Upper
173 100
175 50.2 40.2 60.2
254 7.8 6.2 9.4





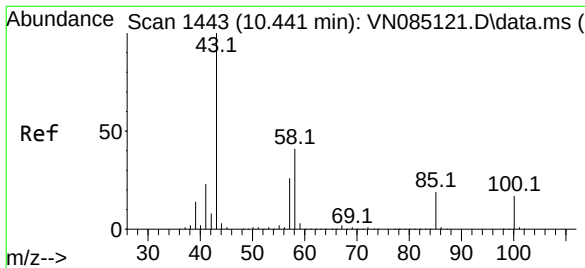
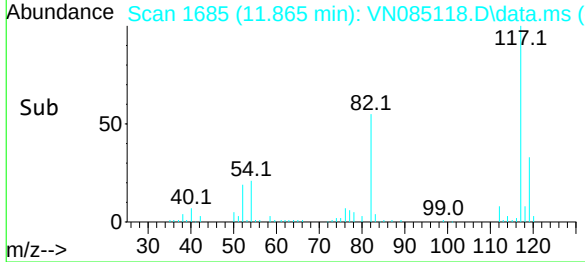
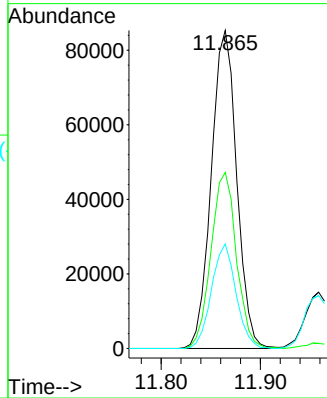
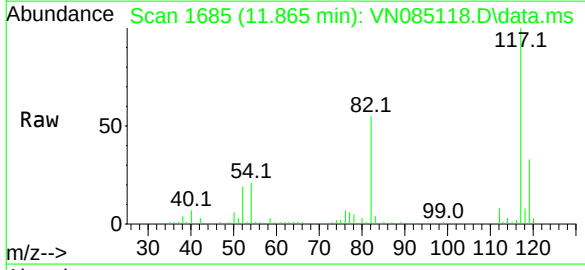
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 117 Resp: 151793
Ion Ratio Lower Upper
117 100
82 55.3 44.2 66.4
119 31.8 25.4 38.2

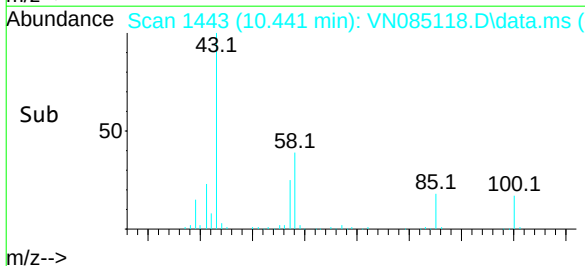
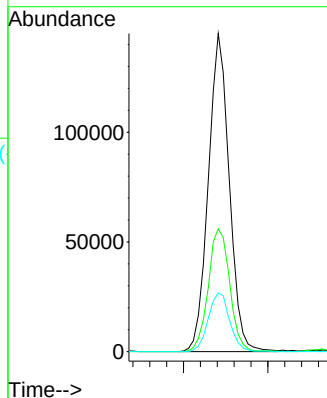
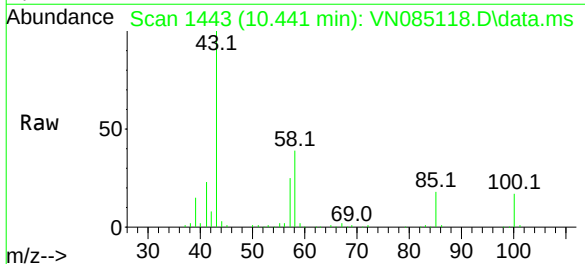
Manual Integrations
APPROVED

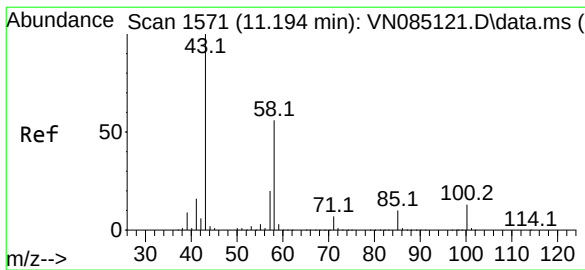
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#58
4-Methyl-2-Pentanone
Concen: 100.896 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

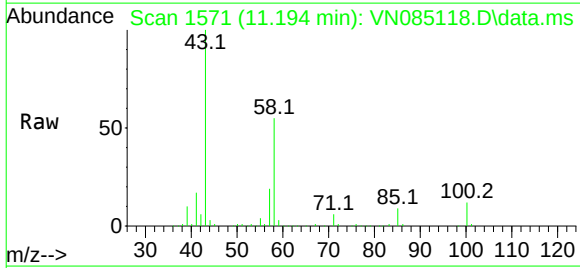
Tgt Ion: 43 Resp: 249951
Ion Ratio Lower Upper
43 100
58 39.5 31.6 47.4
85 18.8 15.0 22.6





#59
2-Hexanone
Concen: 101.223 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

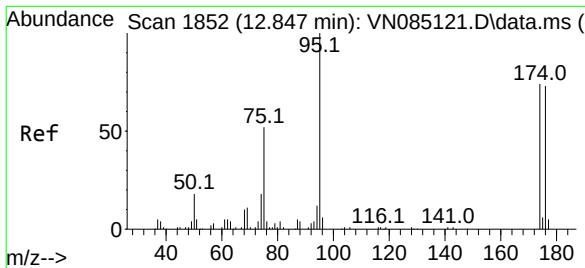
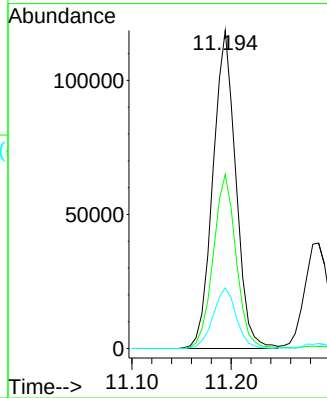
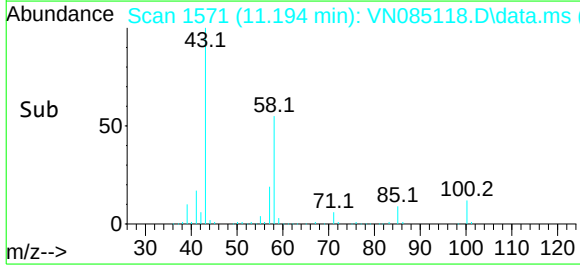
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



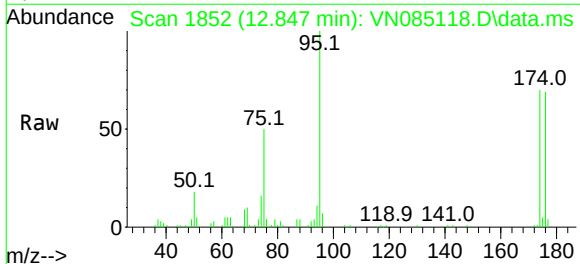
Tgt Ion: 43 Resp: 190003
Ion Ratio Lower Upper
43 100
58 54.5 43.6 65.4
57 19.2 15.4 23.0

Manual Integrations
APPROVED

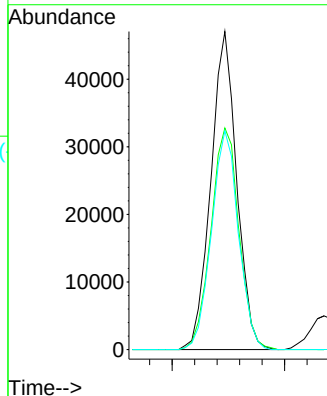
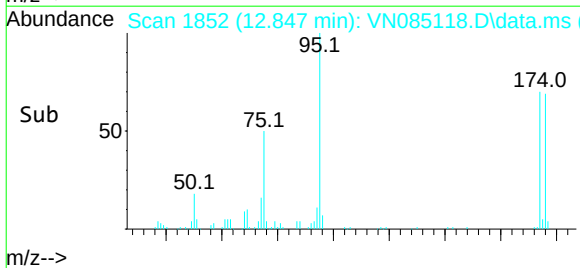
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

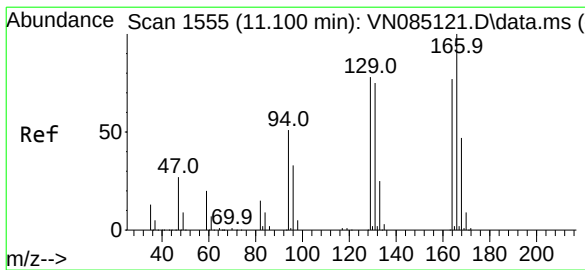


#60
4-Bromofluorobenzene
Concen: 29.902 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26



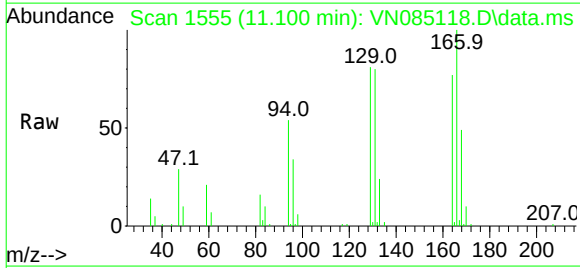
Tgt Ion: 95 Resp: 75101
Ion Ratio Lower Upper
95 100
174 75.4 60.3 90.5
176 71.7 57.4 86.0





#61
Tetrachloroethene
Concen: 19.684 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

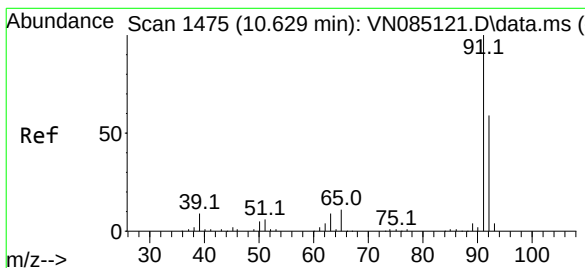
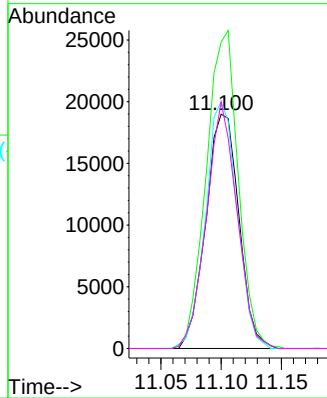
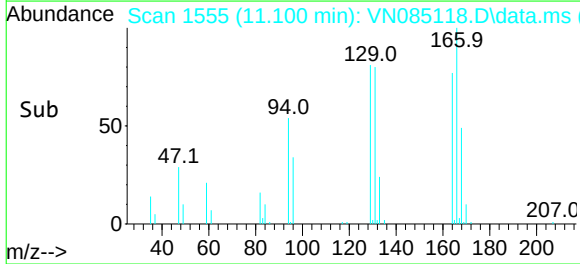
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 164 Resp: 36183
Ion Ratio Lower Upper
164 100
166 129.8 103.8 155.8
129 105.3 84.2 126.4
131 105.1 84.1 126.1

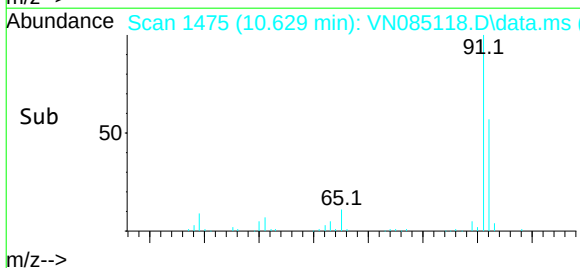
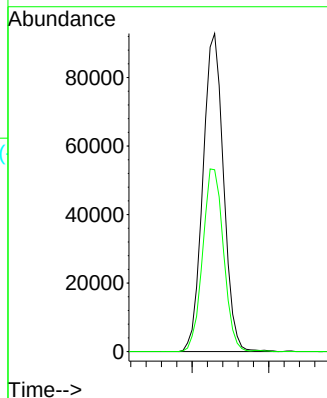
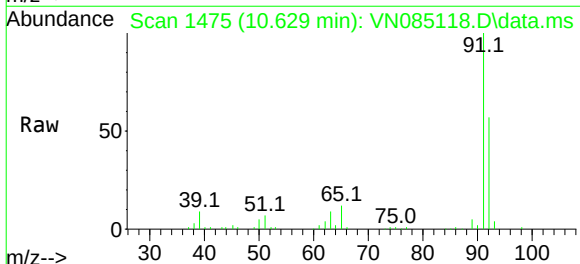
Manual Integrations
APPROVED

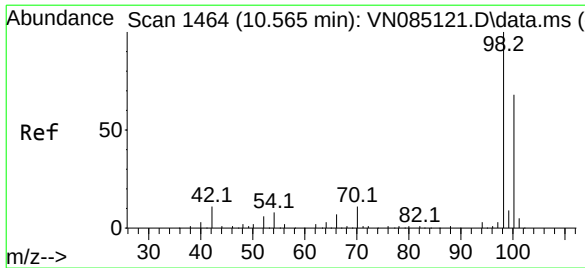
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#62
Toluene
Concen: 19.581 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 91 Resp: 173344
Ion Ratio Lower Upper
91 100
92 58.1 46.5 69.7





#63

Toluene-d8

Concen: 30.755 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 98 Resp: 218988

Ion Ratio Lower Upper

98 100

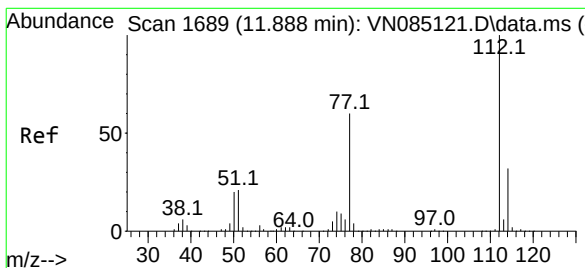
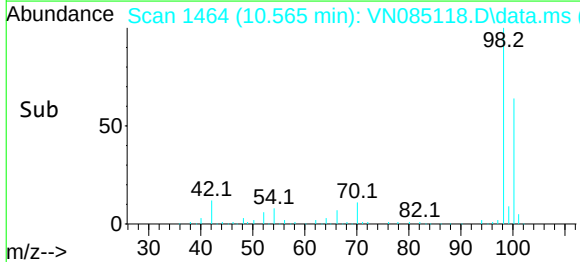
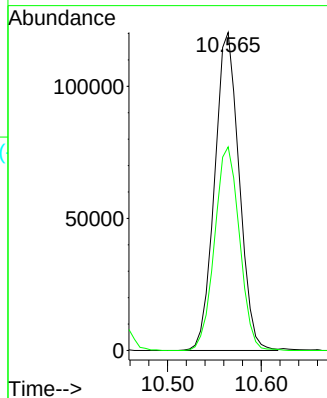
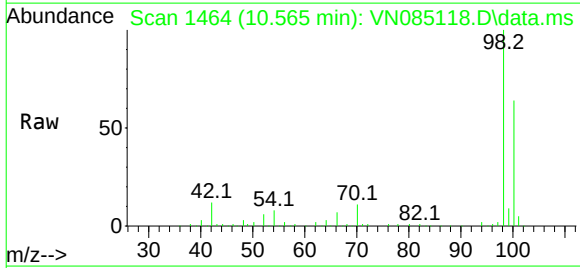
100 65.0 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#64

Chlorobenzene

Concen: 19.550 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085118.D

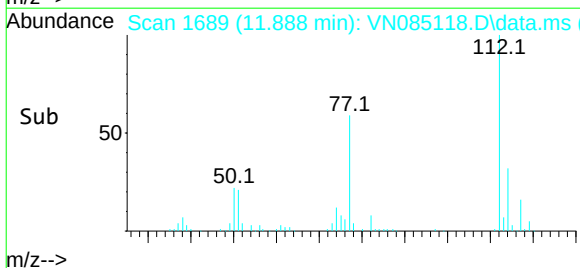
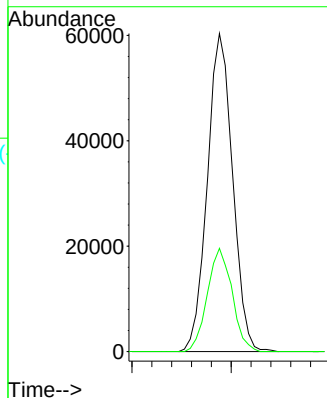
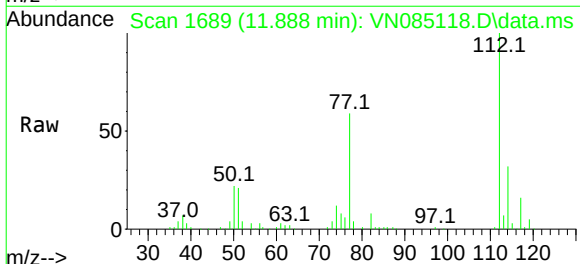
Acq: 06 Dec 2024 10:26

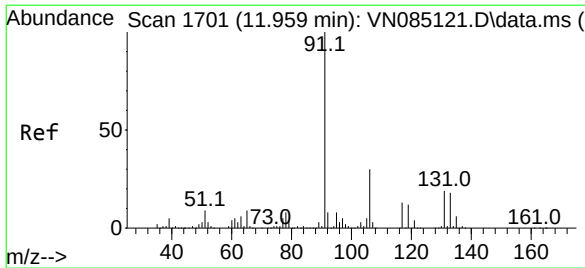
Tgt Ion:112 Resp: 106855

Ion Ratio Lower Upper

112 100

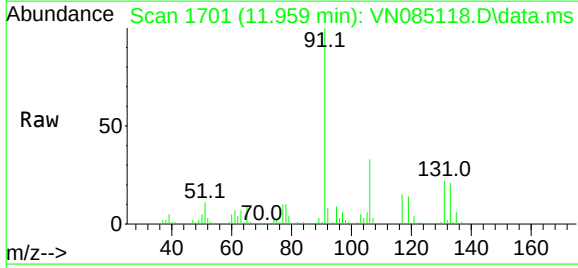
114 32.5 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 19.032 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

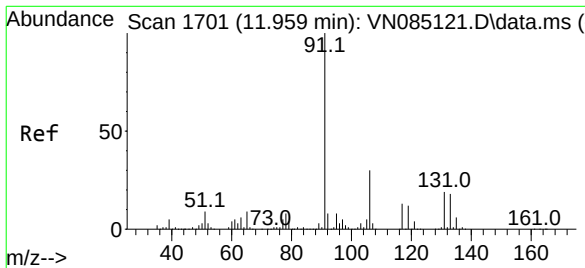
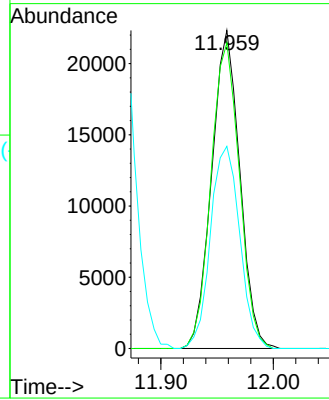
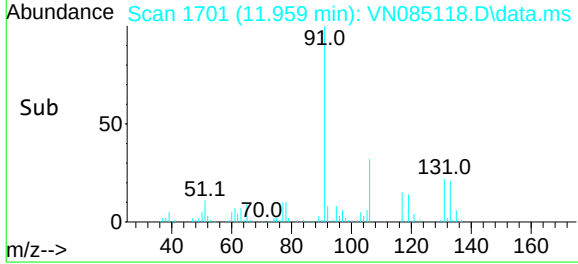
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.0	0.0	194.0
119	65.9	0.0	131.8

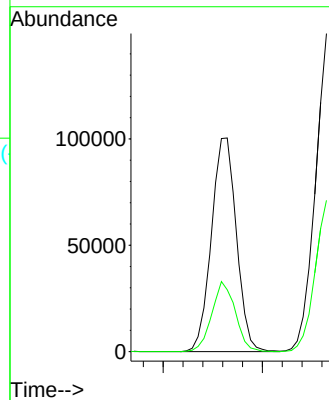
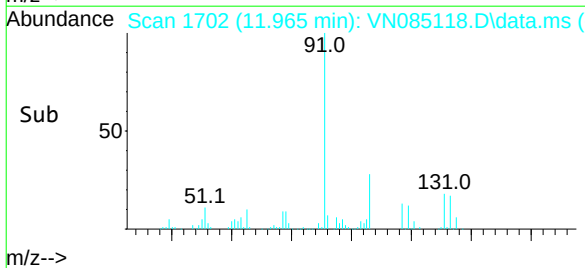
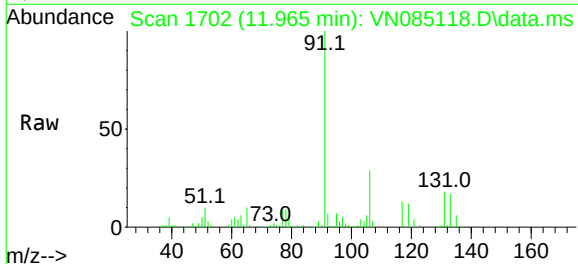
Manual Integrations
APPROVED

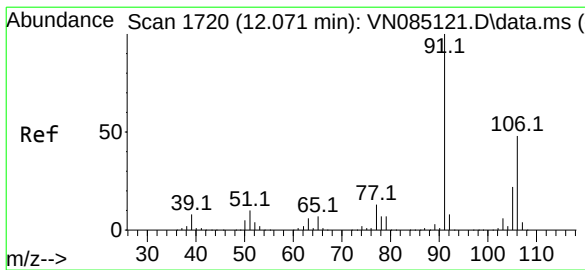
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#66
Ethyl Benzene
Concen: 18.737 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.1	34.7





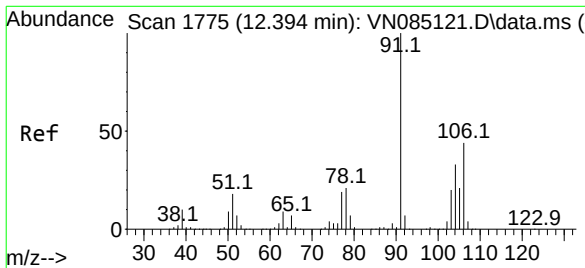
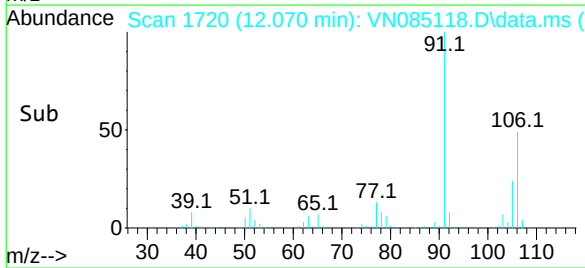
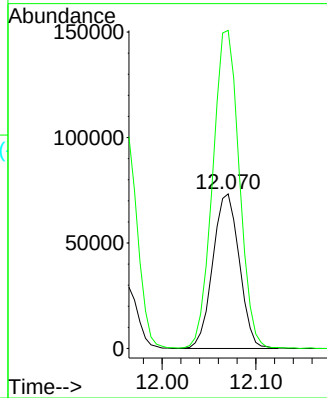
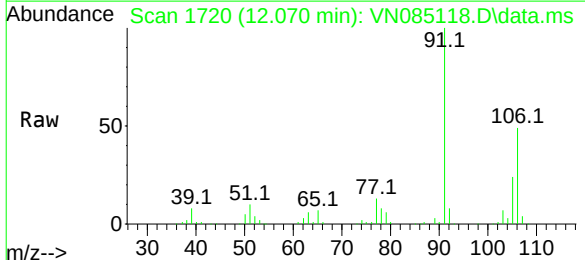
#67
m/p-Xylenes
Concen: 39.929 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:106 Resp: 144263
Ion Ratio Lower Upper
106 100
91 206.2 165.0 247.4

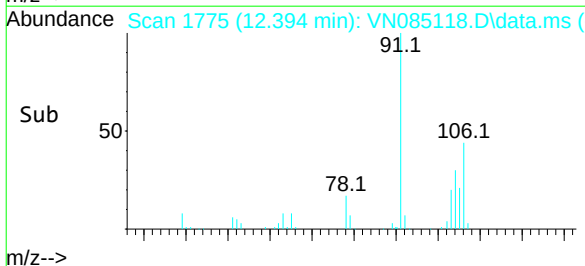
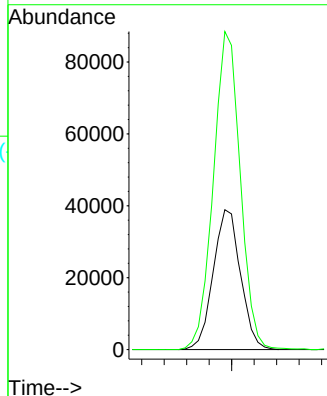
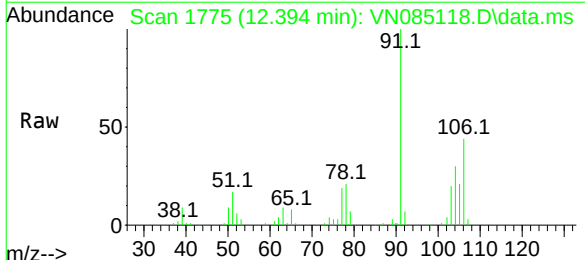
Manual Integrations
APPROVED

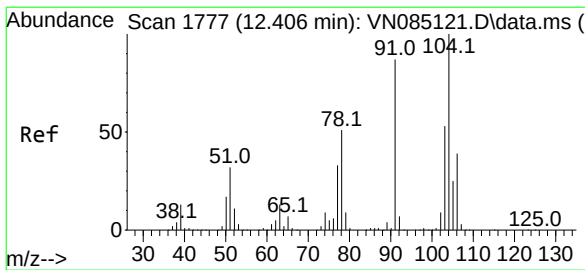
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#68
o-Xylene
Concen: 19.324 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:106 Resp: 65568
Ion Ratio Lower Upper
106 100
91 224.3 112.1 336.4





#69

Styrene

Concen: 19.289 ug/l

RT: 12.412 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

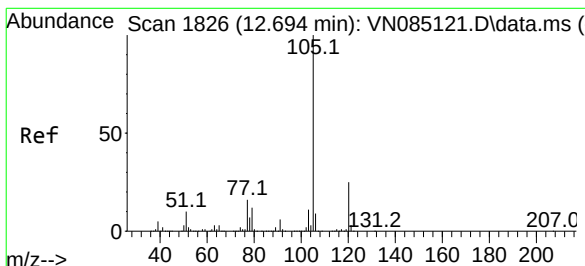
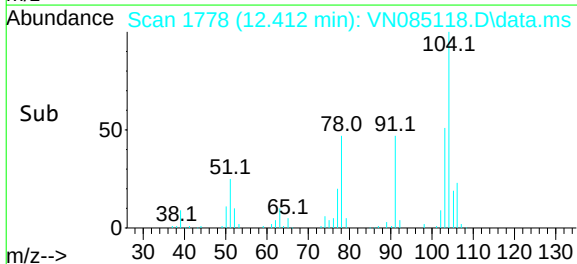
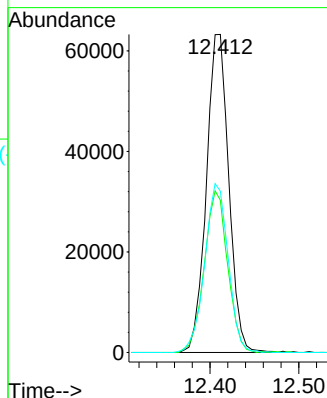
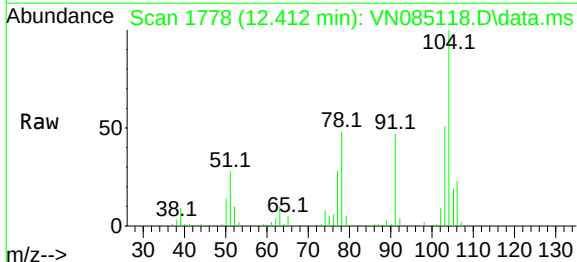
VSTDICCC020

Tgt	Ion:104	Resp:	111060
Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.3	63.5
103	55.5	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#70

Isopropylbenzene

Concen: 19.153 ug/l

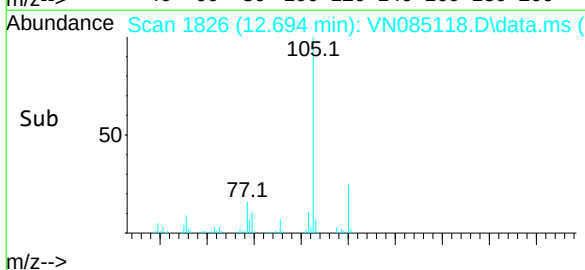
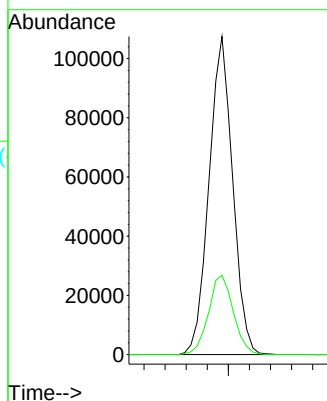
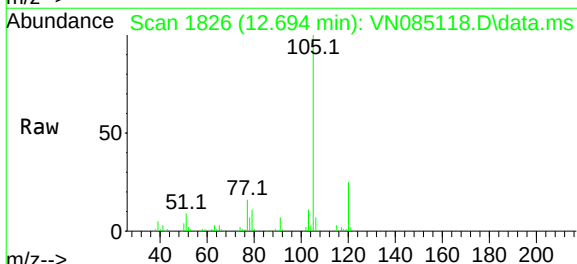
RT: 12.694 min Scan# 1826

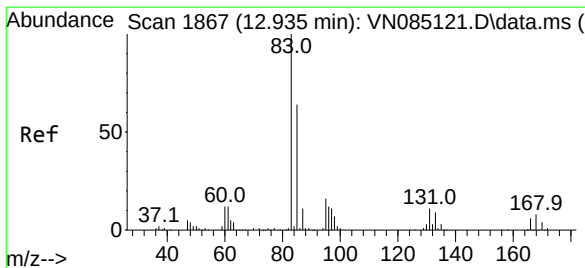
Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

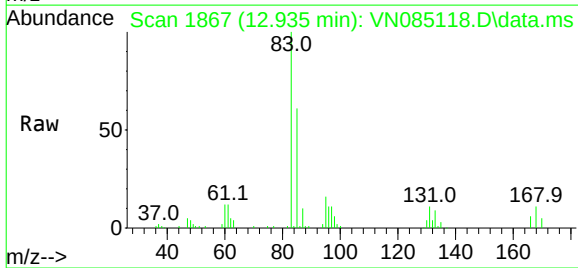
Tgt	Ion:105	Resp:	167624
Ion	Ratio	Lower	Upper
105	100		
120	26.1	18.3	33.9





#71
1,1,2,2-Tetrachloroethane
Concen: 20.208 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

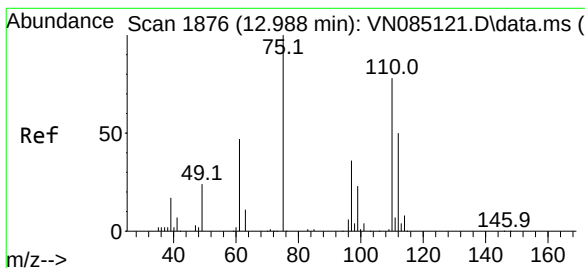
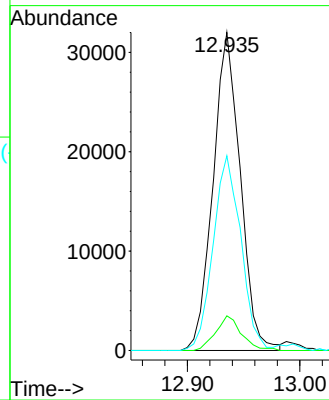
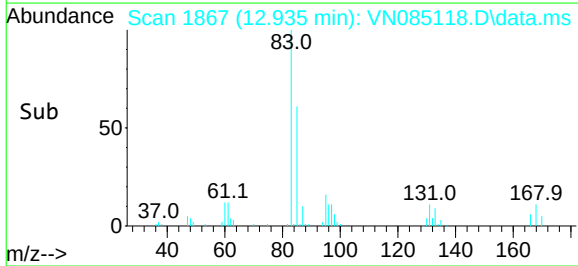
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 83 Resp: 53829
Ion Ratio Lower Upper
83 100
131 10.2 5.1 15.3
85 62.3 31.1 93.5

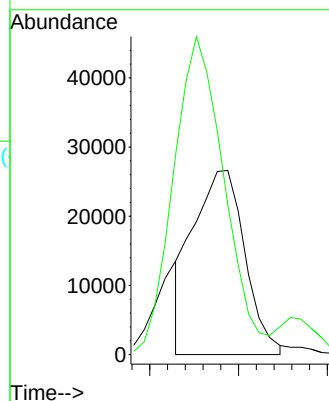
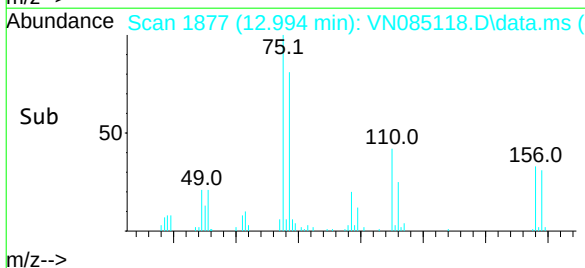
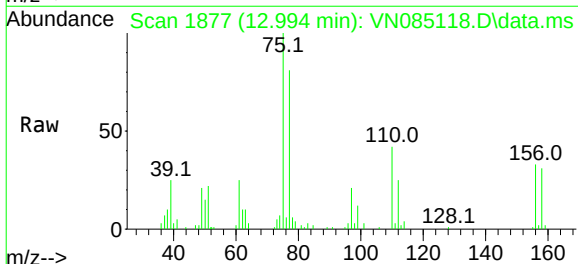
Manual Integrations
APPROVED

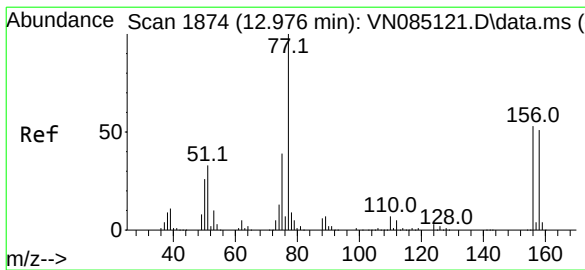
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#72
1,2,3-Trichloropropane
Concen: 20.512 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 75 Resp: 53975
Ion Ratio Lower Upper
75 100
77 169.5 0.0 339.0





#73

Bromobenzene

Concen: 19.393 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

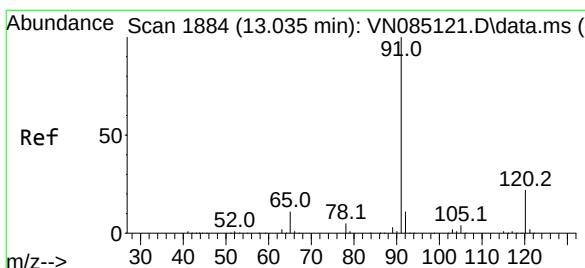
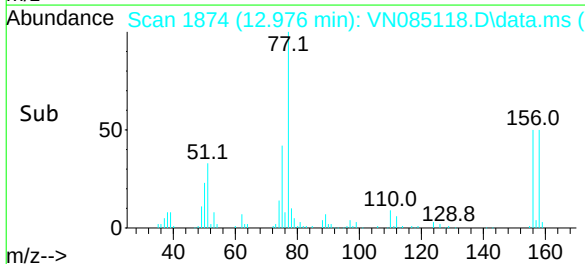
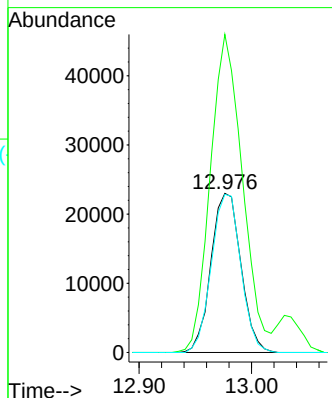
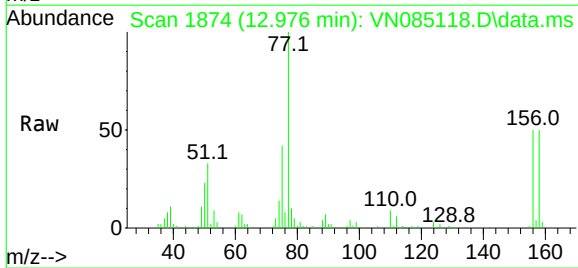
VSTDICCC020

Tgt Ion: 156 Resp: 42513
 Ion Ratio Lower Upper
 156 100
 77 215.2 0.0 430.4
 158 97.6 0.0 195.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#74

n-propylbenzene

Concen: 19.431 ug/l

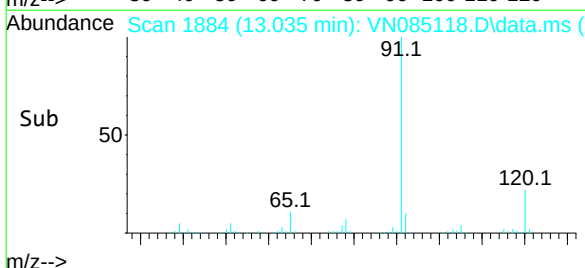
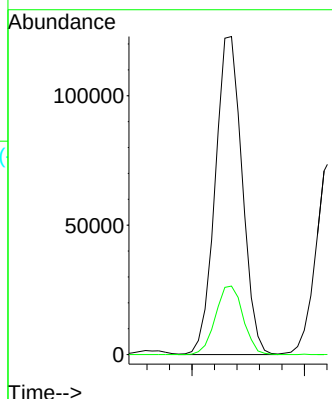
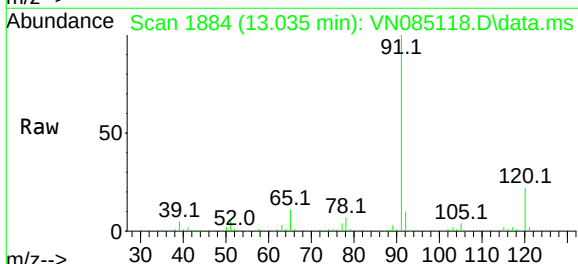
RT: 13.035 min Scan# 1884

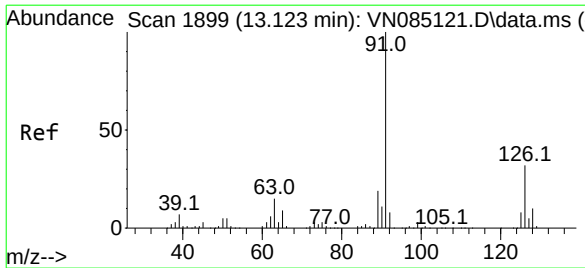
Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Tgt Ion: 91 Resp: 204446
 Ion Ratio Lower Upper
 91 100
 120 22.0 0.0 44.0





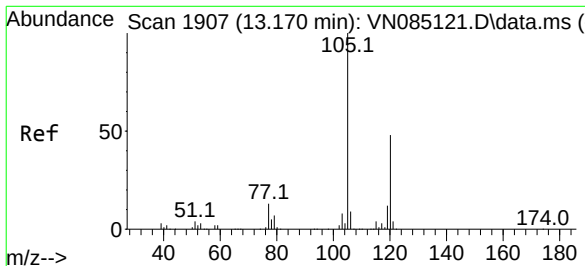
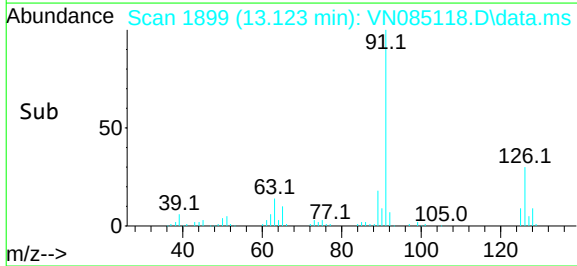
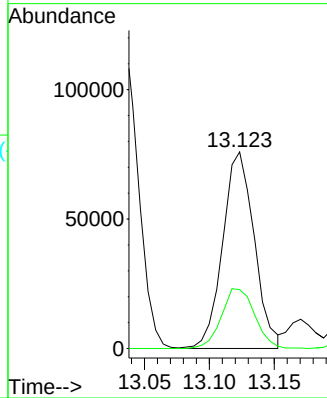
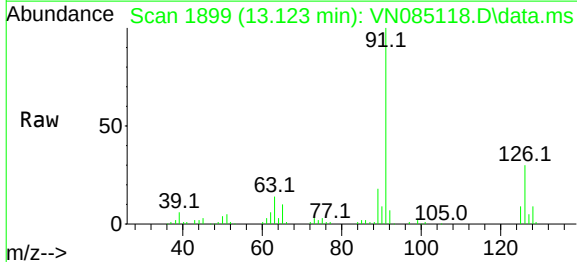
#75
2-Chlorotoluene
Concen: 19.766 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 91 Resp: 128581
Ion Ratio Lower Upper
91 100
126 32.1 0.0 64.2

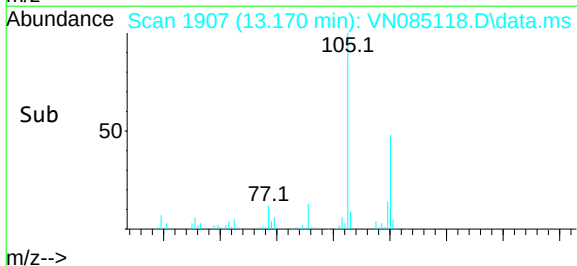
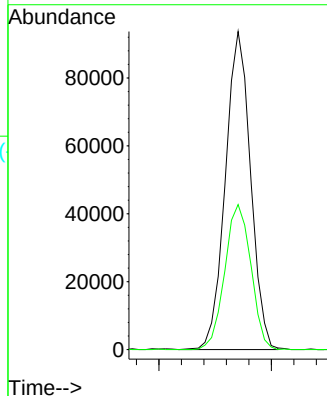
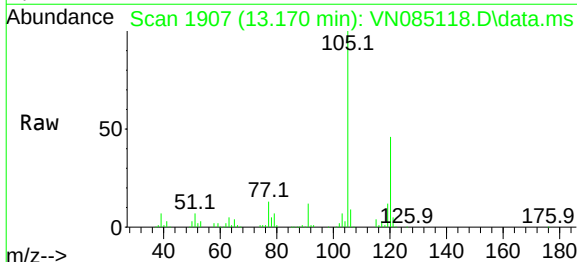
Manual Integrations
APPROVED

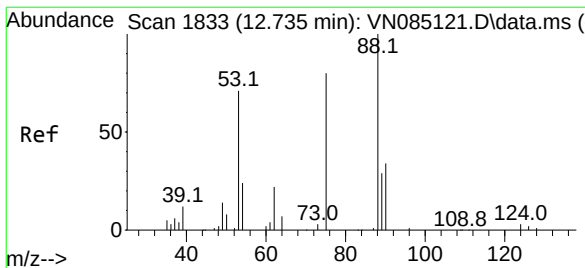
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#76
1,3,5-Trimethylbenzene
Concen: 19.449 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:105 Resp: 145824
Ion Ratio Lower Upper
105 100
120 47.2 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 18.901 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085118.D

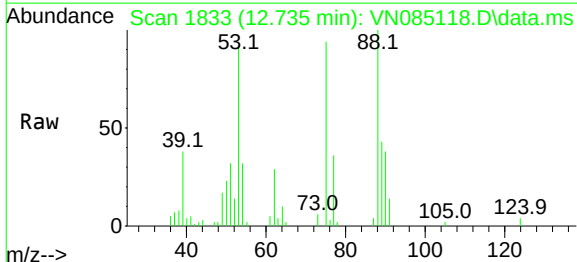
Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020



Tgt Ion: 75 Resp: 18073

Ion Ratio Lower Upper

75 100

53 98.2 49.1 147.3

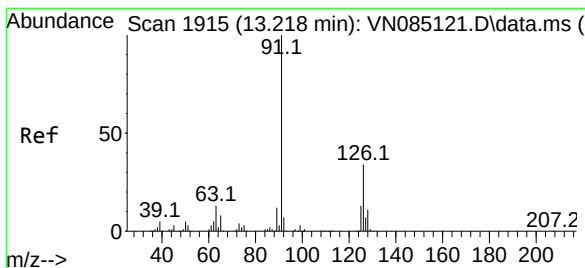
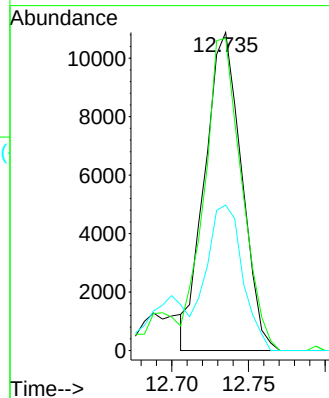
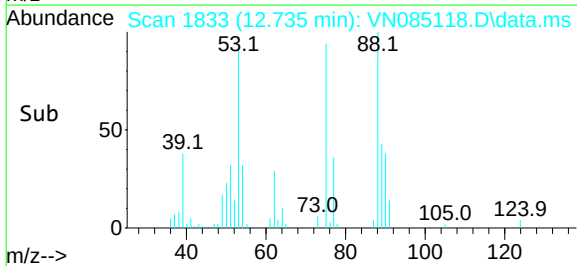
89 45.7 22.9 68.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#78

4-Chlorotoluene

Concen: 19.337 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN085118.D

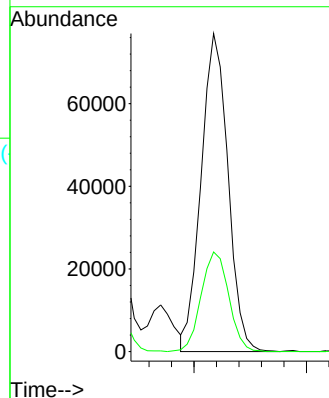
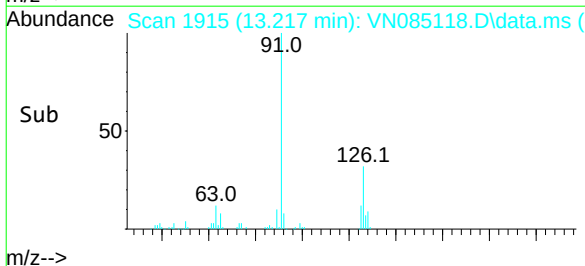
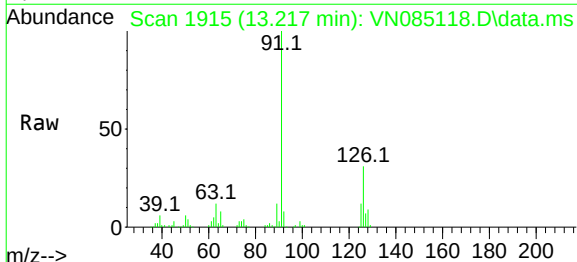
Acq: 06 Dec 2024 10:26

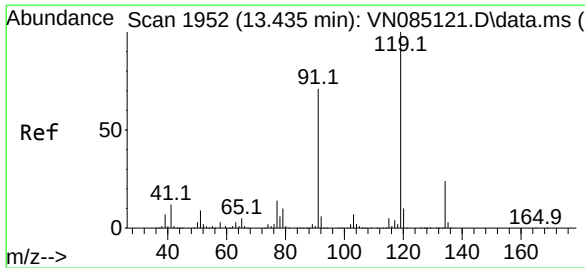
Tgt Ion: 91 Resp: 127680

Ion Ratio Lower Upper

91 100

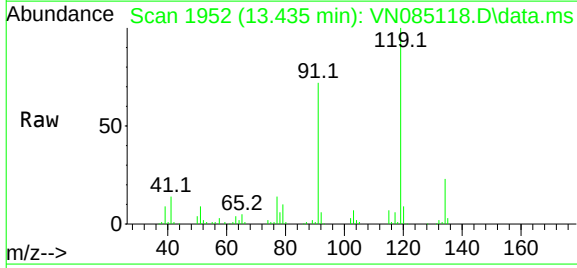
126 32.2 0.0 64.4





#79
tert-butylbenzene
Concen: 19.283 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

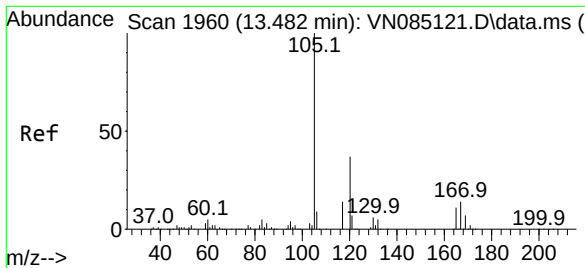
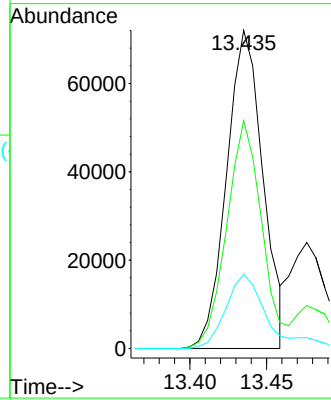
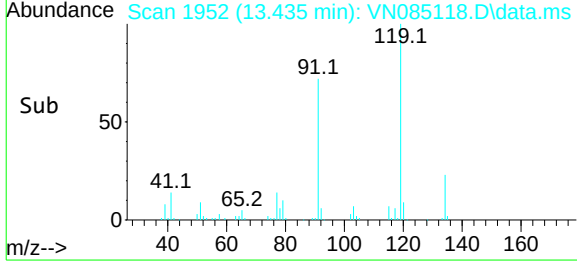
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



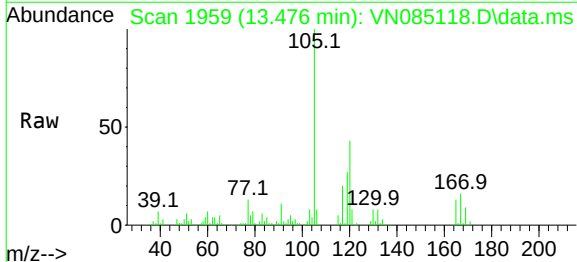
Tgt Ion:119 Resp: 118752
Ion Ratio Lower Upper
119 100
91 69.6 0.0 139.2
134 24.0 0.0 48.0

Manual Integrations
APPROVED

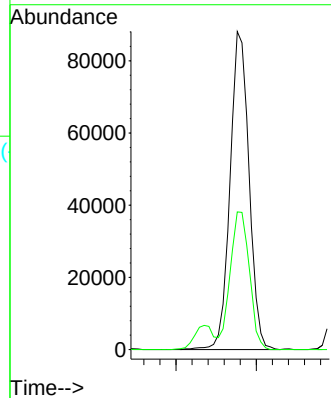
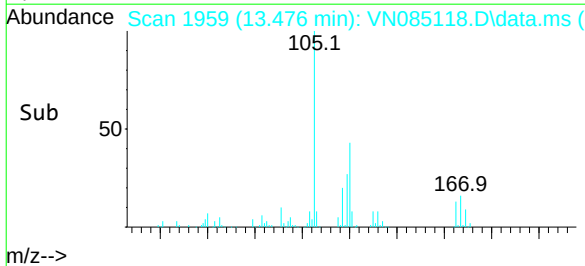
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

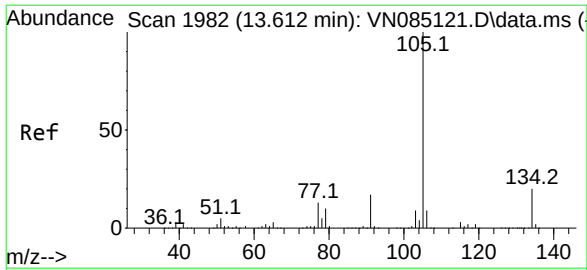


#80
1,2,4-Trimethylbenzene
Concen: 19.521 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26



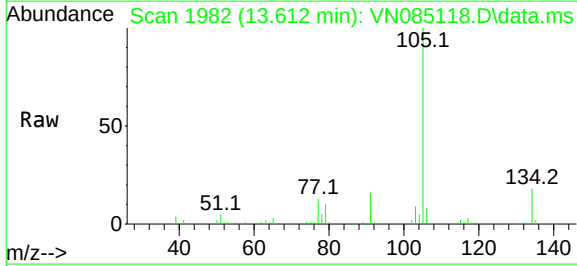
Tgt Ion:105 Resp: 144579
Ion Ratio Lower Upper
105 100
120 43.7 0.0 87.4





#81
sec-Butylbenzene
Concen: 19.304 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

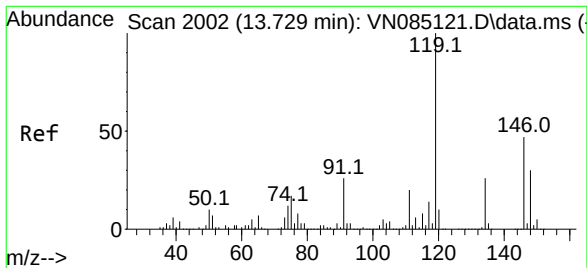
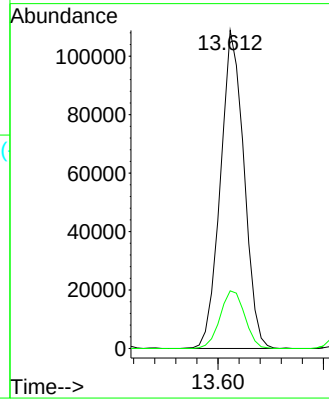
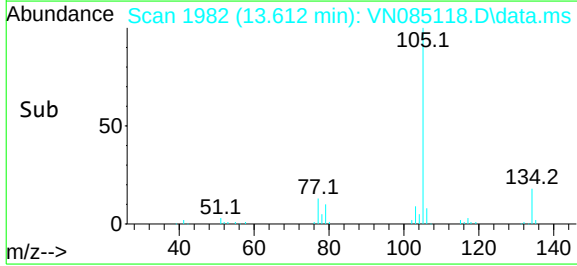
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



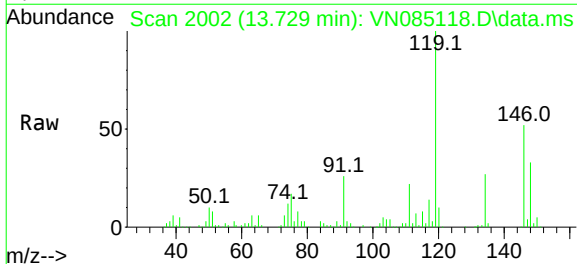
Tgt Ion:105 Resp: 168895
Ion Ratio Lower Upper
105 100
134 19.0 0.0 38.0

Manual Integrations
APPROVED

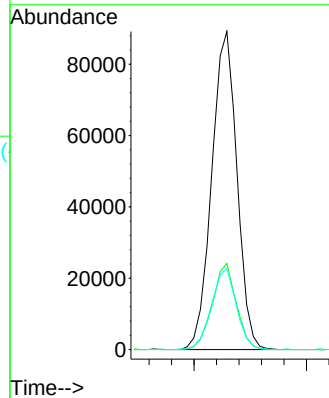
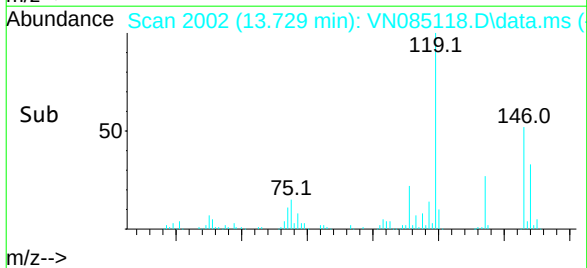
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

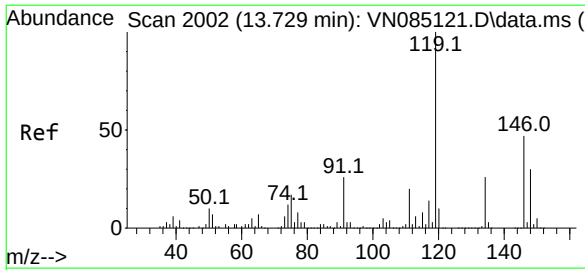


#82
p-Isopropyltoluene
Concen: 19.140 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26



Tgt Ion:119 Resp: 138833
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 25.2 0.0 50.4





#83

1,3-Dichlorobenzene

Concen: 19.261 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

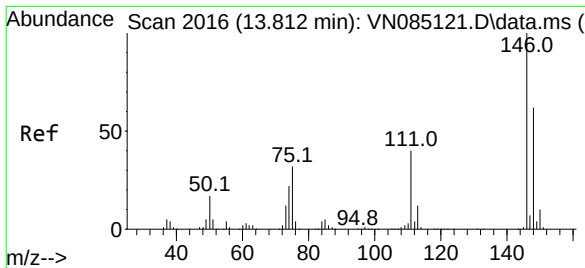
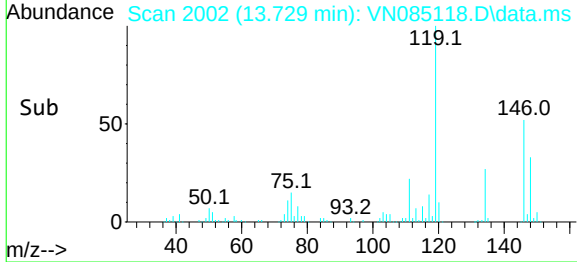
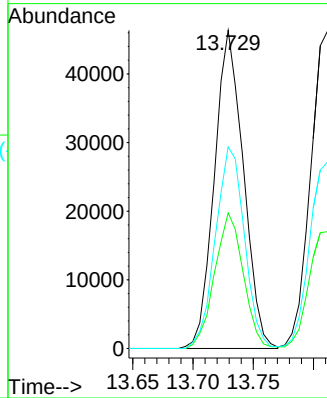
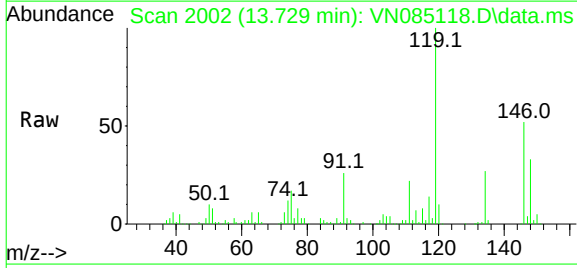
VSTDICCC020

Tgt Ion:	146	Resp:	77464
Ion Ratio	Lower	Upper	
146	100		
111	42.2	21.1	63.3
148	63.5	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#84

1,4-Dichlorobenzene

Concen: 19.156 ug/l

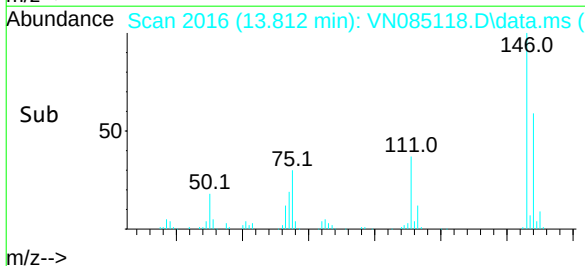
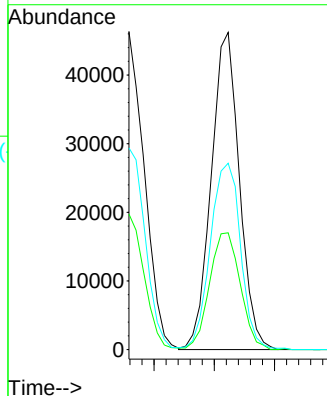
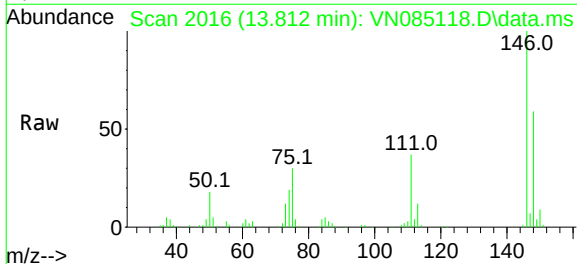
RT: 13.812 min Scan# 2016

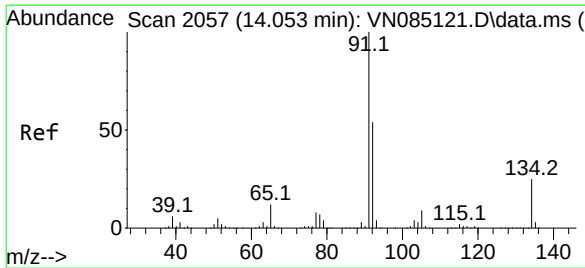
Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Tgt Ion:	146	Resp:	75083
Ion Ratio	Lower	Upper	
146	100		
111	40.2	20.1	60.3
148	63.1	31.6	94.7





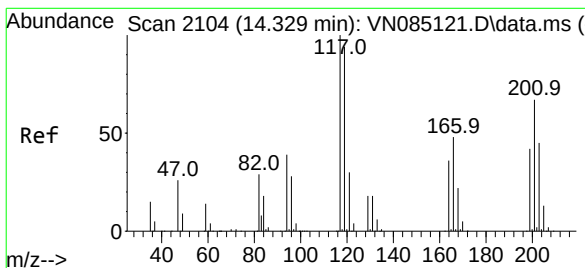
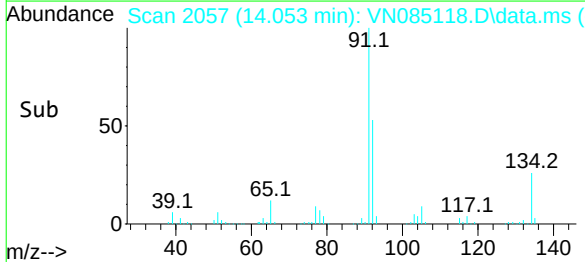
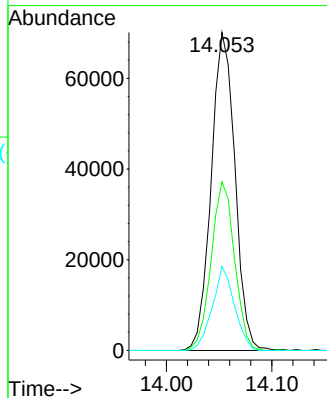
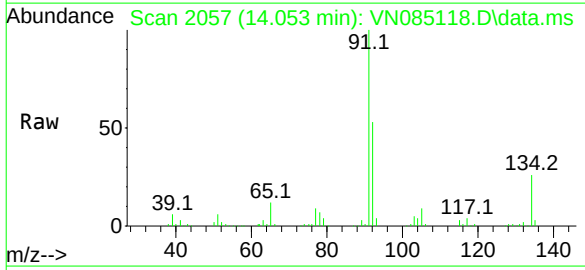
#85
n-Butylbenzene
Concen: 18.049 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 91 Resp: 109819
Ion Ratio Lower Upper
91 100
92 52.0 0.0 104.0
134 24.6 0.0 49.2

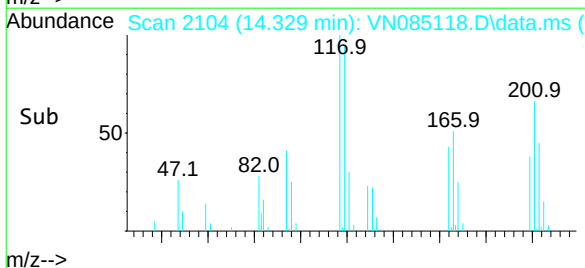
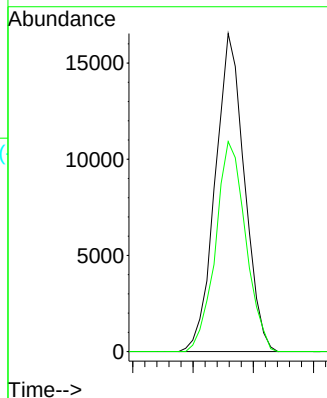
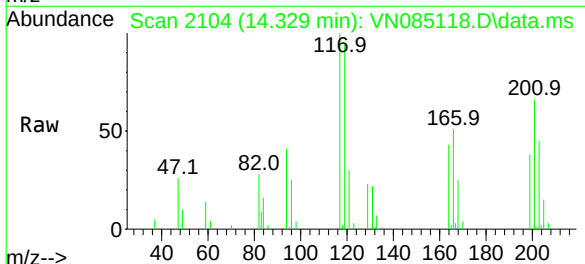
Manual Integrations
APPROVED

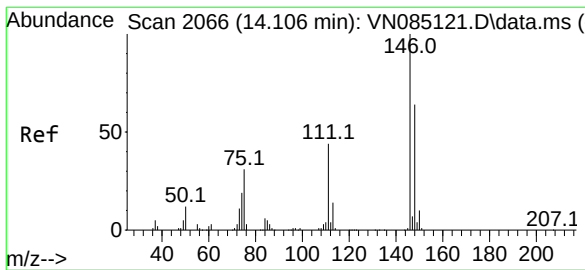
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#86
Hexachloroethane
Concen: 19.248 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:117 Resp: 27795
Ion Ratio Lower Upper
117 100
201 68.2 34.1 102.3





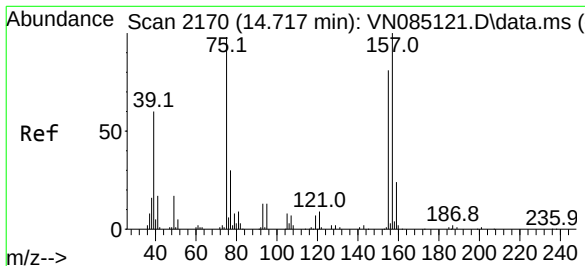
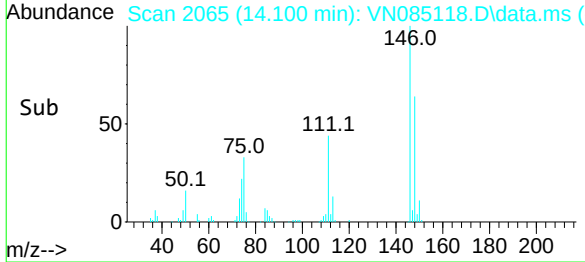
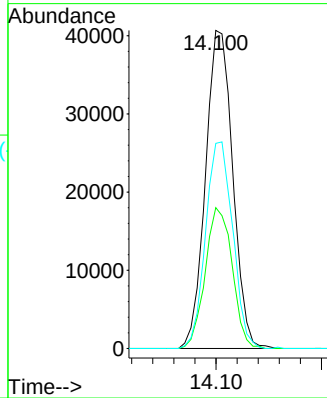
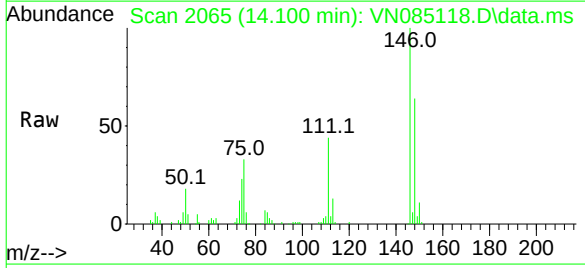
#87
1,2-Dichlorobenzene
Concen: 19.228 ug/l
RT: 14.100 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:	146	Resp:	72993
Ion Ratio	Lower	Upper	
146	100		
111	43.8	21.9	65.7
148	64.7	32.4	97.0

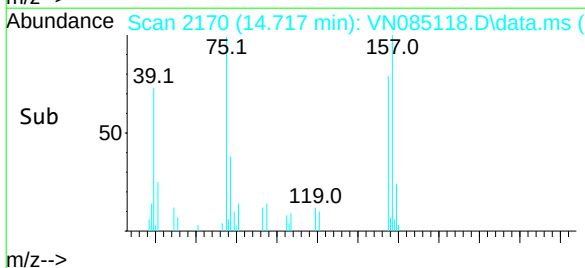
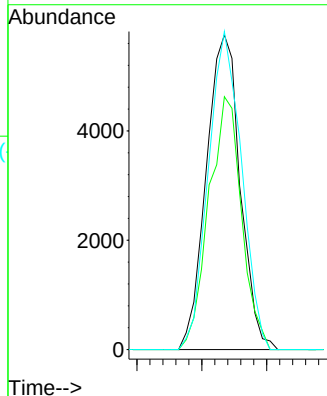
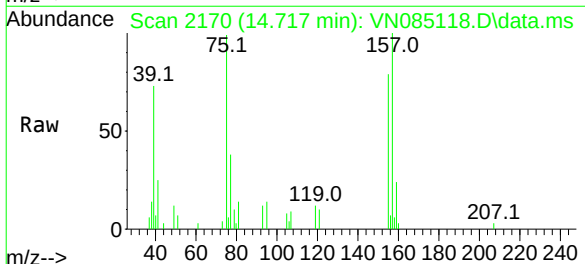
Manual Integrations
APPROVED

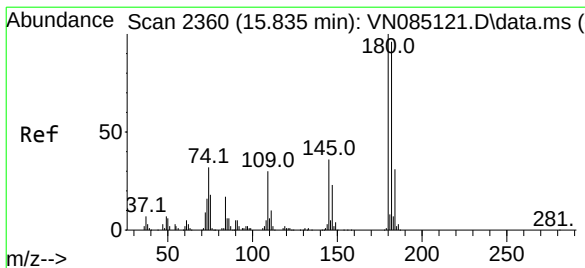
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 19.634 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:	75	Resp:	10448
Ion Ratio	Lower	Upper	
75	100		
155	77.6	62.1	93.1
157	99.1	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 18.598 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085118.D

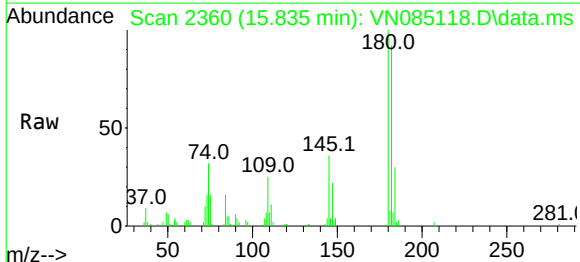
Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

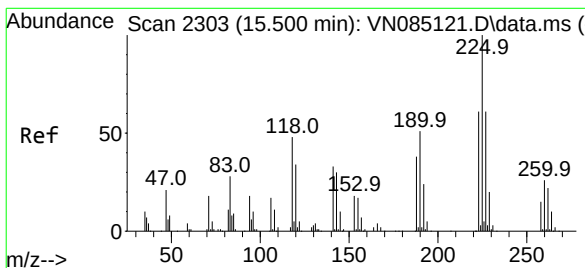
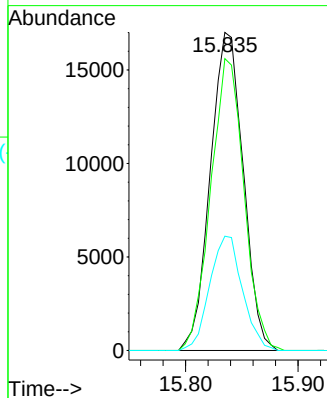
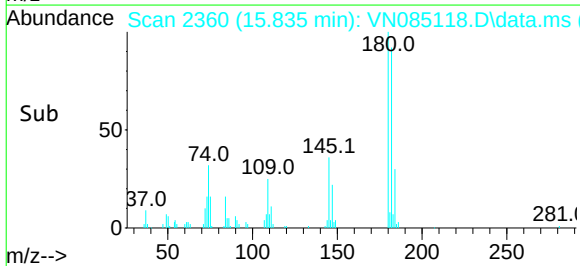


Tgt Ion:	180	Resp:	34577
Ion Ratio	Lower	Upper	
180	100		
182	92.5	74.0	111.0
145	35.8	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#90

Hexachlorobutadiene

Concen: 19.222 ug/l

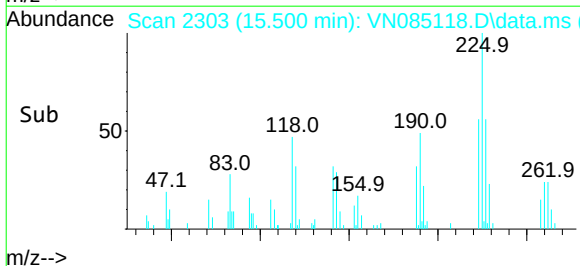
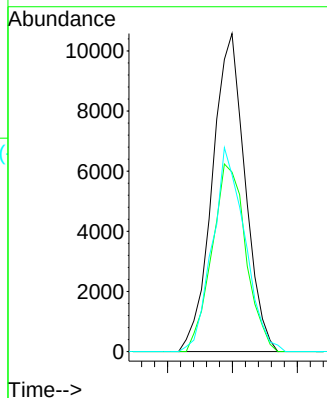
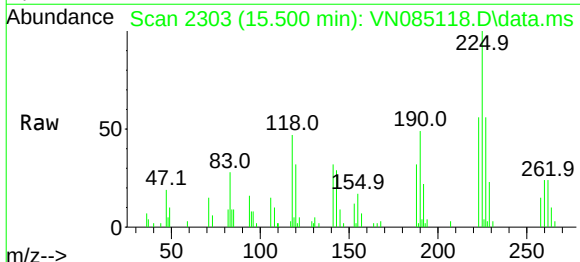
RT: 15.500 min Scan# 2303

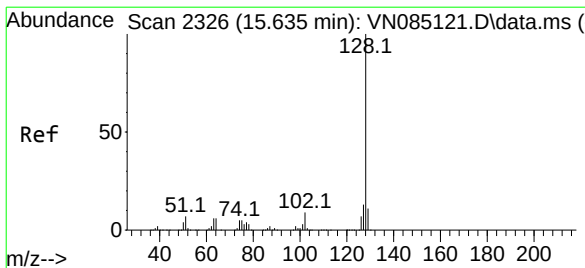
Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Tgt Ion:	225	Resp:	18570
Ion Ratio	Lower	Upper	
225	100		
223	60.9	0.0	121.8
227	63.4	0.0	126.8





#91

Naphthalene

Concen: 17.011 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

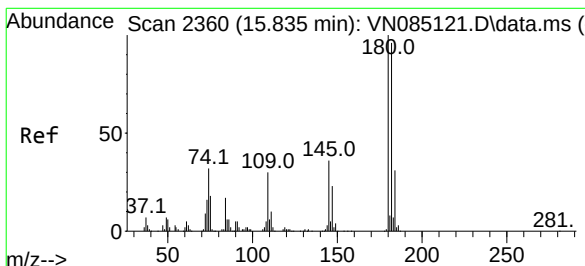
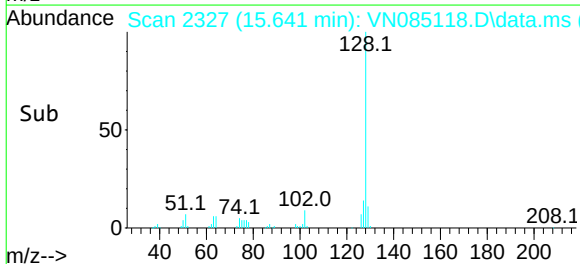
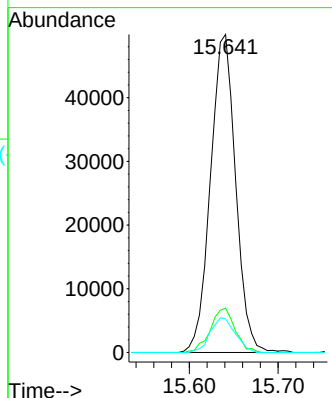
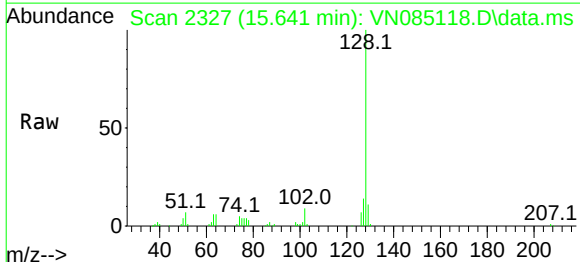
VSTDICCC020

Tgt Ion:	128	Resp:	98254
Ion	Ratio	Lower	Upper
128	100		
127	13.7	11.0	16.4
129	10.9	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 18.598 ug/l

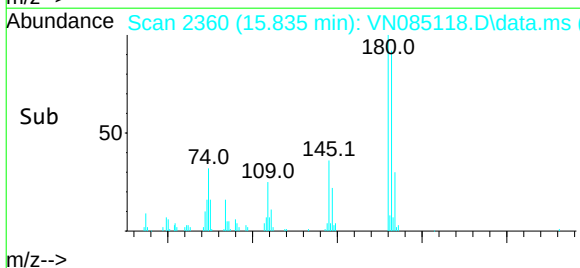
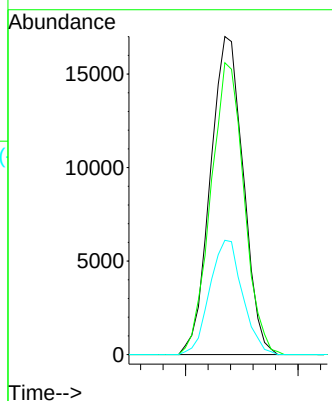
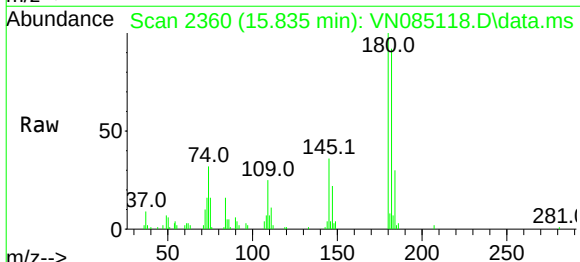
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Tgt Ion:	180	Resp:	34577
Ion	Ratio	Lower	Upper
180	100		
182	92.5	0.0	185.0
145	35.8	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085119.D
 Acq On : 06 Dec 2024 10:49
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Dec 06 22:29:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	32631	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	169083	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	158595	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	73850	28.523	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.067%		
60) 4-Bromofluorobenzene	12.847	95	79229	30.193	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.633%		
63) Toluene-d8	10.565	98	220709	29.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	126923	48.618	ug/l	95
3) Chloromethane	2.359	50	109481	47.379	ug/l	97
4) Vinyl Chloride	2.512	62	110184	46.620	ug/l	95
5) Bromomethane	2.959	94	68578	45.702	ug/l	97
6) Chloroethane	3.124	64	68457	47.145	ug/l	96
7) Trichlorofluoromethane	3.500	101	180635	46.691	ug/l	99
8) Diethyl Ether	3.959	74	59301	48.393	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	103346	47.768	ug/l	97
10) 1,1-Dichloroethene	4.341	96	94788	47.699	ug/l	96
11) Methyl Iodide	4.589	142	133247	48.346	ug/l	97
12) Methyl Acetate	5.018	43	110575	47.166	ug/l	99
13) Acrolein	4.171	56	81406	238.946	ug/l	93
14) Acrylonitrile	5.712	53	233375	239.739	ug/l	97
15) Acetone	4.418	58	63386	240.283	ug/l	89
16) Carbon Disulfide	4.712	76	275285	46.345	ug/l	100
17) Allyl chloride	5.024	41	137437	48.333	ug/l	92
18) Methylene Chloride	5.277	84	104822	46.488	ug/l	98
19) trans-1,2-Dichloroethene	5.788	96	96901	46.913	ug/l	90
20) Diisopropyl ether	6.671	45	301677	48.342	ug/l	99
21) 1,1-Dichloroethane	6.565	63	177808	46.165	ug/l	99
22) cis-1,2-Dichloroethene	7.482	96	113782	47.926	ug/l	98
23) tert-Butyl Alcohol	5.512	59	80412	230.265	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	300411	48.425	ug/l #	77
25) Chloroform	7.965	83	190773	47.279	ug/l	98
26) Cyclohexane	8.253	56	158534	49.989	ug/l	98
29) 1,1-Dichloropropene	8.371	75	131946	48.360	ug/l	99
30) 2-Butanone	7.477	43	307572	245.653	ug/l	99
31) 2,2-Dichloropropane	7.488	77	169610	48.478	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	174371	47.217	ug/l	98
33) Carbon Tetrachloride	8.359	117	159586	47.889	ug/l	97
34) Benzene	8.606	78	410169	47.855	ug/l	98
35) Methacrylonitrile	7.777	41	72876	51.722	ug/l	91
36) 1,2-Dichloroethane	8.671	62	138391	47.430	ug/l	100
37) Trichloroethene	9.353	130	96801	47.426	ug/l	96
38) Methylcyclohexane	9.600	83	148222	49.963	ug/l	95
39) 1,2-Dichloropropane	9.618	63	98790	47.586	ug/l	96
40) Dibromomethane	9.706	93	71433	47.969	ug/l	99
41) Bromodichloromethane	9.882	83	152481	47.898	ug/l	96
42) Vinyl Acetate	6.600	43	1122209	256.138	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085119.D
 Acq On : 06 Dec 2024 10:49
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Manual Integrations**APPROVED**

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 22:29:45 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M

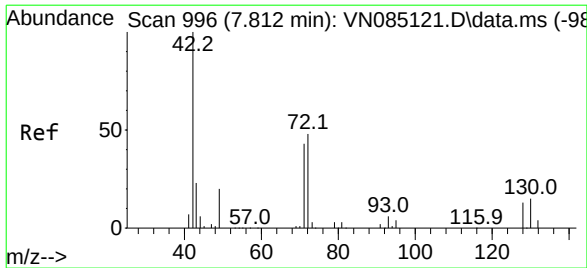
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Dec 06 22:19:40 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	124173	49.844	ug/l #	92
44) Isopropyl Acetate	8.682	43	211189	48.782	ug/l	99
45) 1,4-Dioxane	9.694	88	35720	989.420	ug/l	95
46) Methyl methacrylate	9.676	41	97397	49.158	ug/l	94
47) n-amyl Acetate	12.488	43	184994	50.788	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	152504	48.801	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	164287	48.292	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	94692	47.189	ug/l	98
51) Ethyl methacrylate	10.870	69	152776	50.057	ug/l	97
52) 1,3-Dichloropropane	11.159	76	164130	48.874	ug/l	99
53) Dibromochloromethane	11.359	129	116277	47.550	ug/l	97
54) 1,2-Dibromoethane	11.465	107	98049	48.496	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	363042	256.062	ug/l	100
56) Bromoform	12.576	173	79589	48.542	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	638976	246.869	ug/l	98
59) 2-Hexanone	11.194	43	490910	250.312	ug/l	98
61) Tetrachloroethene	11.100	164	90418	47.078	ug/l	96
62) Toluene	10.629	91	444180	48.023	ug/l	99
64) Chlorobenzene	11.888	112	274152	48.008	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	101559	47.641	ug/l	95
66) Ethyl Benzene	11.959	91	487612	49.682	ug/l	96
67) m/p-Xylenes	12.070	106	373298	98.889	ug/l	95
68) o-Xylene	12.394	106	179899	50.744	ug/l	97
69) Styrene	12.406	104	307715	51.151	ug/l	98
70) Isopropylbenzene	12.694	105	461786	50.502	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	132922	47.759	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	125007m	45.469	ug/l	
73) Bromobenzene	12.976	156	111567	48.711	ug/l	99
74) n-propylbenzene	13.035	91	550361	50.065	ug/l	99
75) 2-Chlorotoluene	13.123	91	334590	49.227	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	393277	50.202	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	48505	48.553	ug/l	97
78) 4-Chlorotoluene	13.217	91	336818	48.823	ug/l	98
79) tert-butylbenzene	13.435	119	324073	50.365	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	396249	51.207	ug/l	100
81) sec-Butylbenzene	13.611	105	456540	49.942	ug/l	99
82) p-Isopropyltoluene	13.729	119	386040	50.937	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	204168	48.588	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	200637	48.993	ug/l	99
85) n-Butylbenzene	14.053	91	325144	51.146	ug/l	99
86) Hexachloroethane	14.329	117	71737	47.548	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	193910	48.889	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	26674	47.975	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	96150	49.499	ug/l	98
90) Hexachlorobutadiene	15.500	225	45780	45.354	ug/l	97
91) Naphthalene	15.641	128	310785	51.498	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	96150	49.499	ug/l	98

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



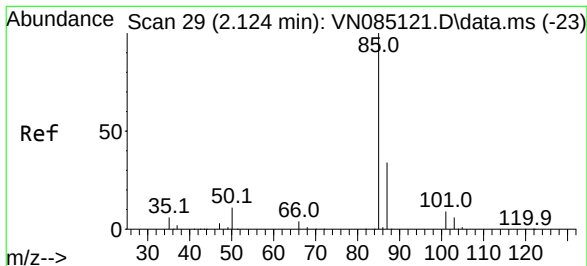
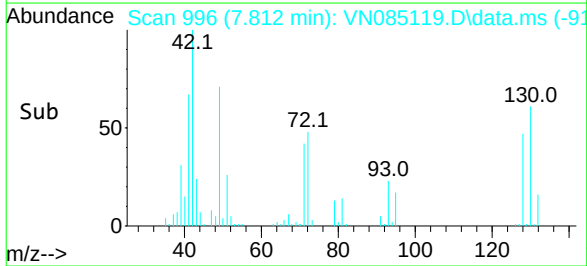
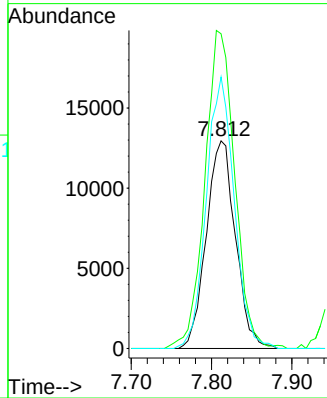
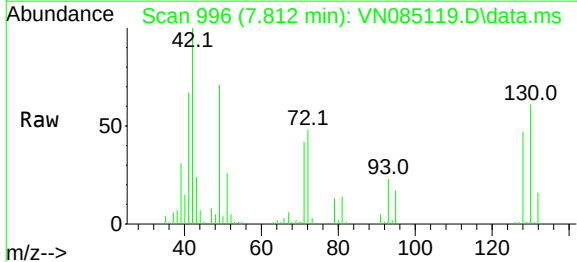
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 128 Resp: 32631
Ion Ratio Lower Upper
128 100
49 155.7 0.0 394.5
130 125.6 0.0 316.5

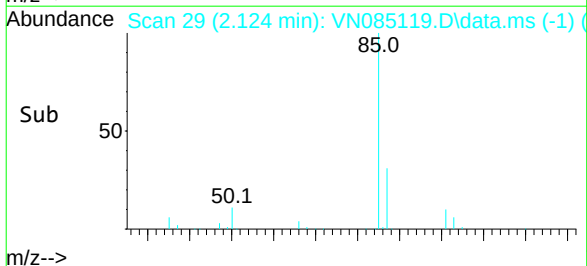
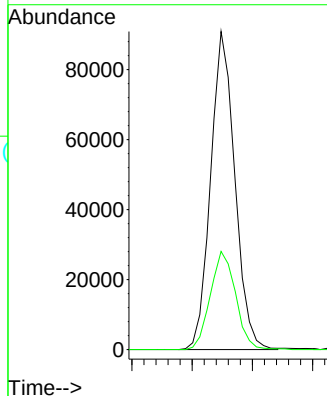
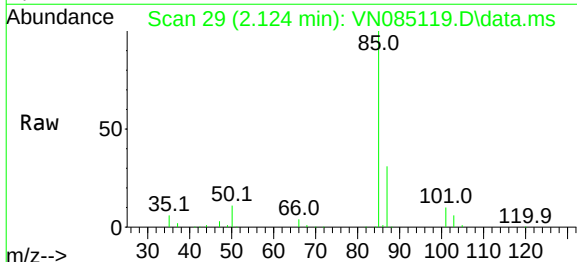
Manual Integrations
APPROVED

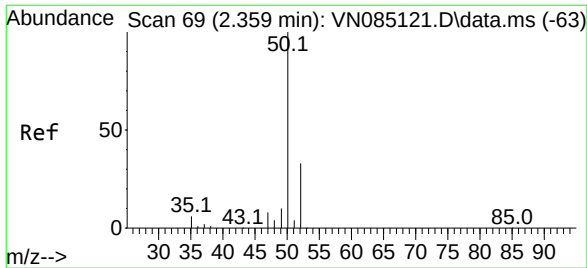
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#2
Dichlorodifluoromethane
Concen: 48.618 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

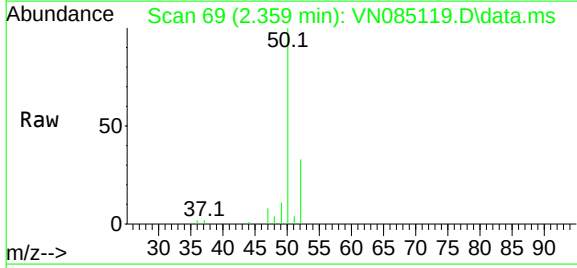
Tgt Ion: 85 Resp: 126923
Ion Ratio Lower Upper
85 100
87 30.9 16.8 50.3





#3
Chloromethane
Concen: 47.379 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

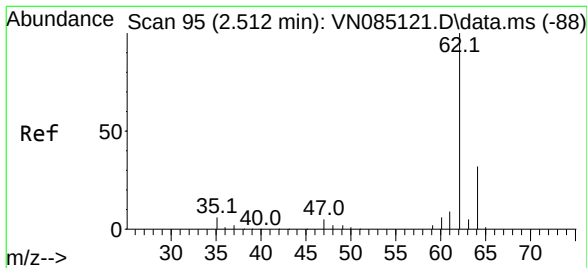
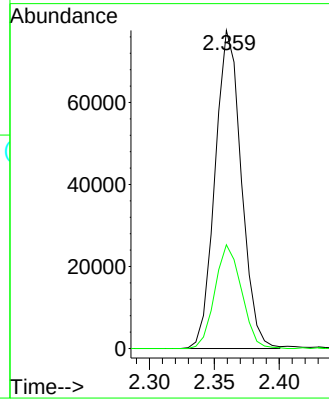
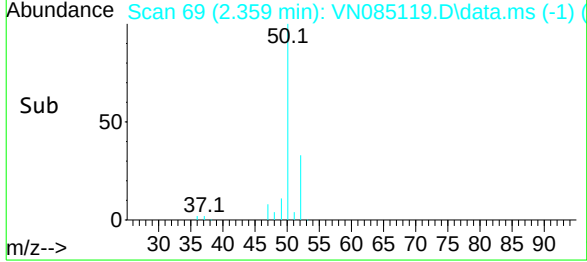
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 50 Resp: 109481
Ion Ratio Lower Upper
50 100
52 32.6 25.0 37.4

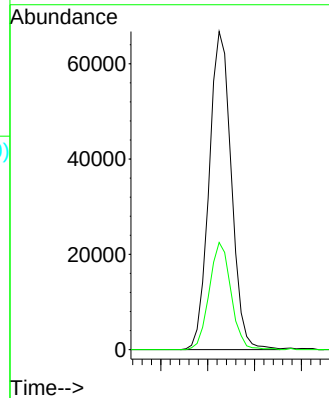
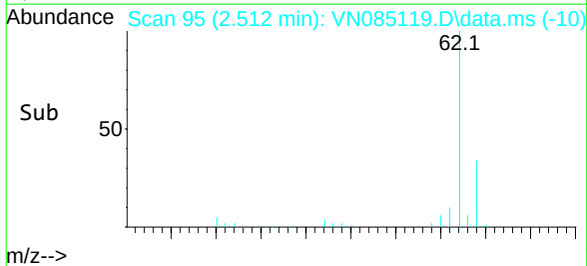
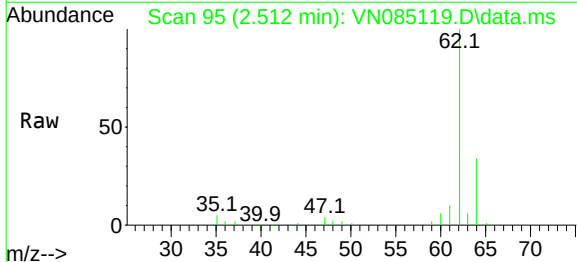
Manual Integrations
APPROVED

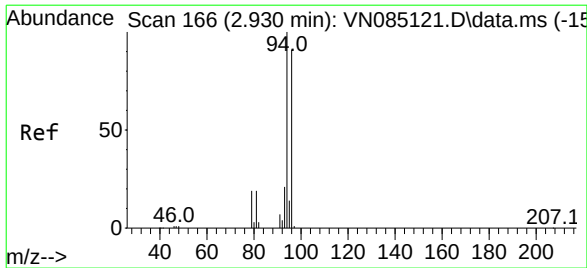
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#4
Vinyl Chloride
Concen: 46.620 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 62 Resp: 110184
Ion Ratio Lower Upper
62 100
64 33.7 24.9 37.3





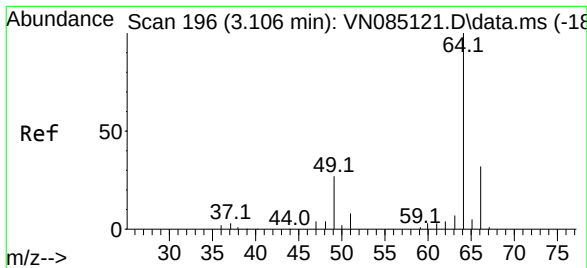
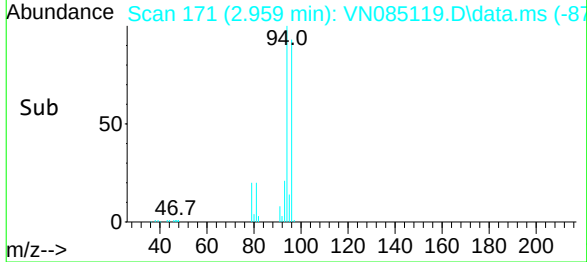
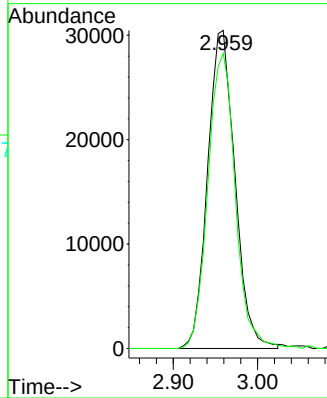
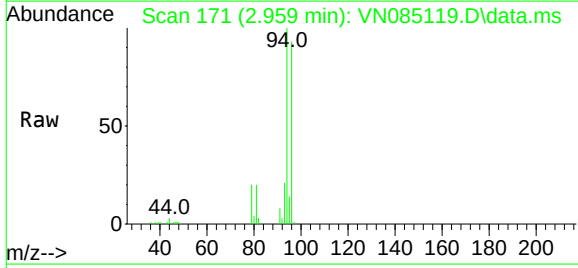
#5
Bromomethane
Concen: 45.702 ug/l
RT: 2.959 min Scan# 171
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 94 Resp: 68578
Ion Ratio Lower Upper
94 100
96 92.8 76.2 114.4

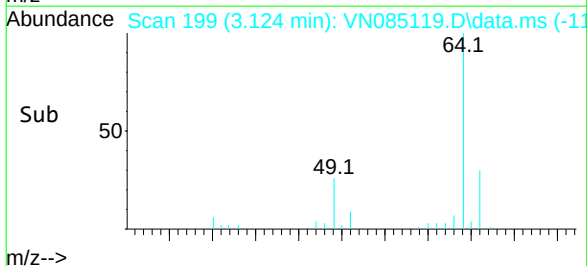
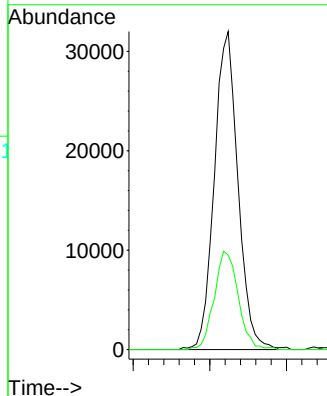
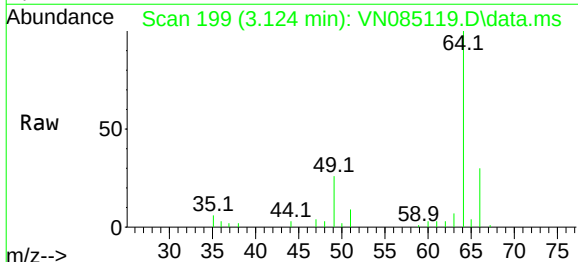
Manual Integrations
APPROVED

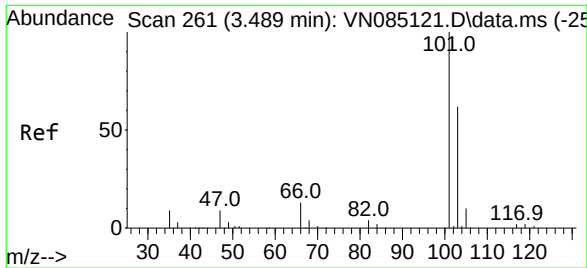
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#6
Chloroethane
Concen: 47.145 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

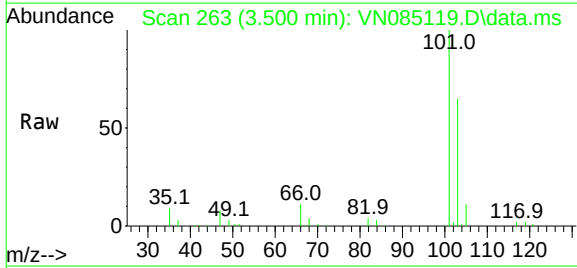
Tgt Ion: 64 Resp: 68457
Ion Ratio Lower Upper
64 100
66 29.7 25.5 38.3





#7
Trichlorofluoromethane
Concen: 46.691 ug/l
RT: 3.500 min Scan# 261
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

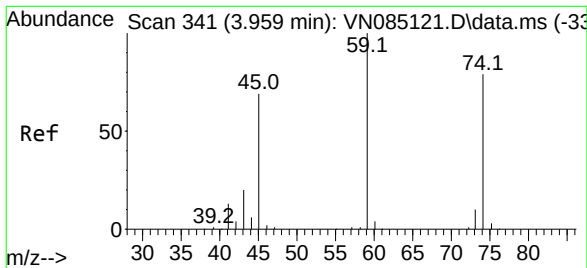
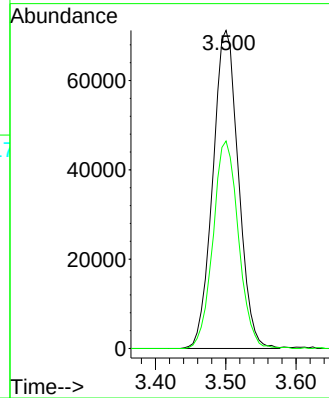
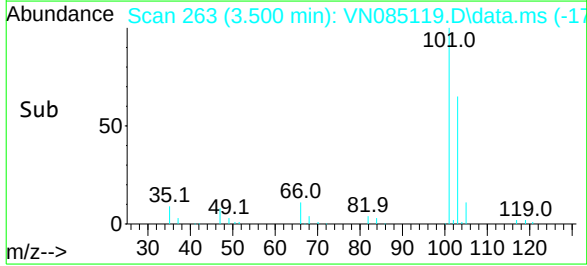
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:101 Resp: 180635
Ion Ratio Lower Upper
101 100
103 65.2 51.3 76.9

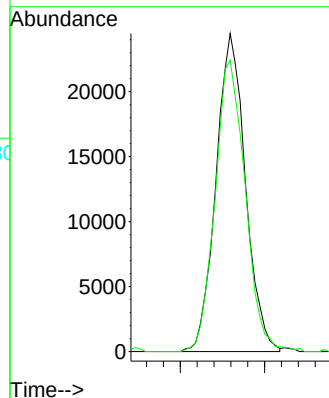
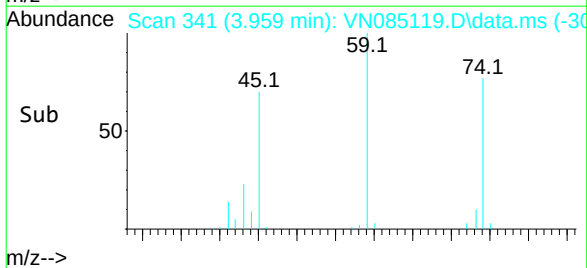
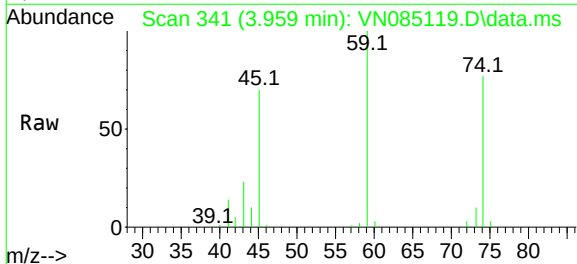
Manual Integrations
APPROVED

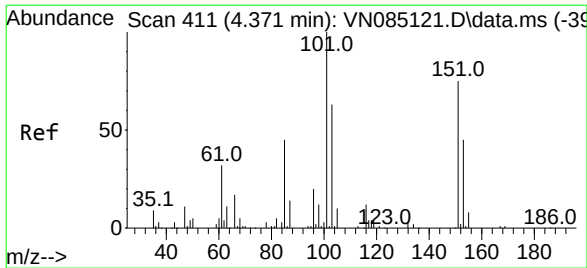
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#8
Diethyl Ether
Concen: 48.393 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

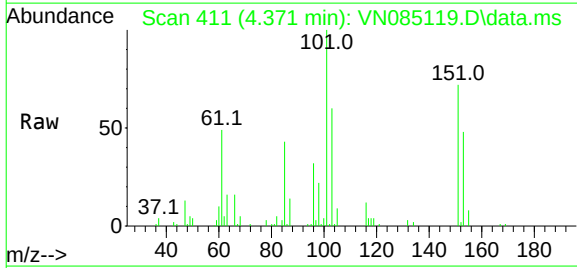
Tgt Ion: 74 Resp: 59301
Ion Ratio Lower Upper
74 100
45 93.5 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.768 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

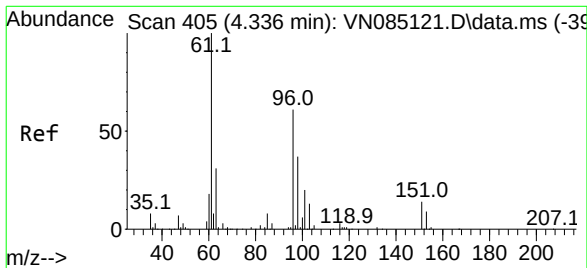
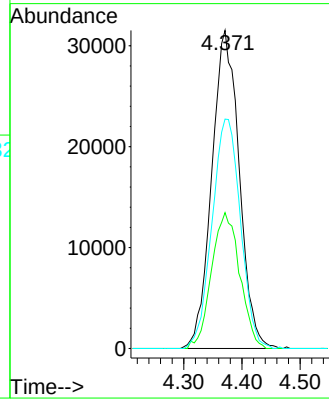
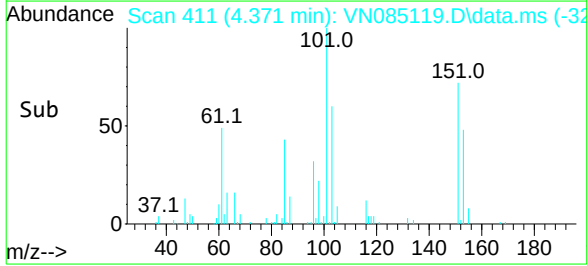
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 101 Resp: 103346
Ion Ratio Lower Upper
101 100
85 43.9 0.0 88.6
151 74.8 0.0 155.8

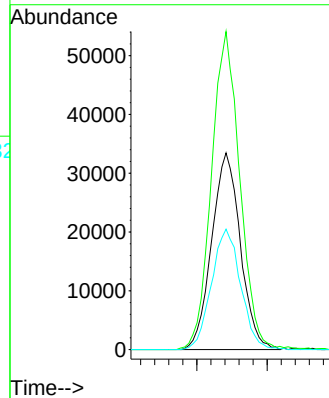
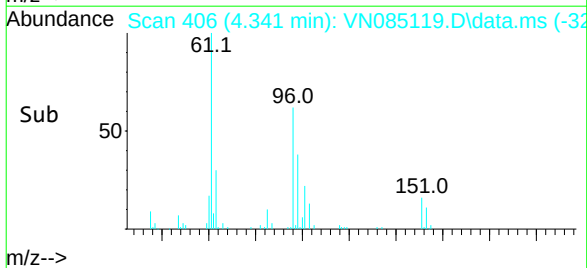
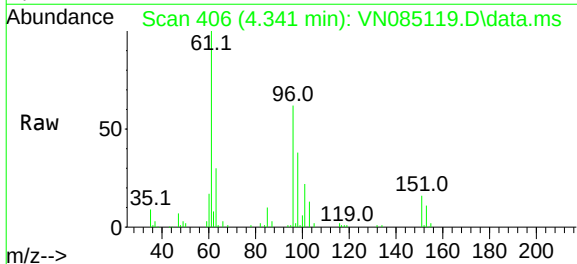
Manual Integrations
APPROVED

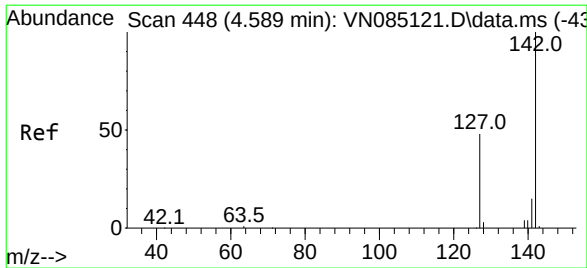
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#10
1,1-Dichloroethene
Concen: 47.699 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

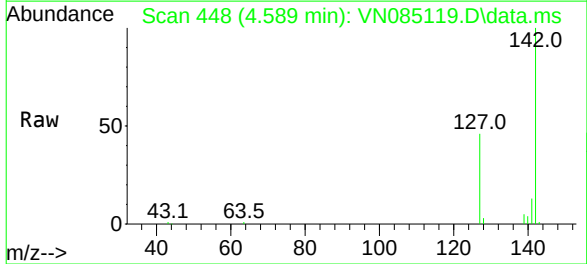
Tgt Ion: 96 Resp: 94788
Ion Ratio Lower Upper
96 100
61 160.9 123.0 184.4
98 61.2 49.1 73.7





#11
Methyl Iodide
Concen: 48.346 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

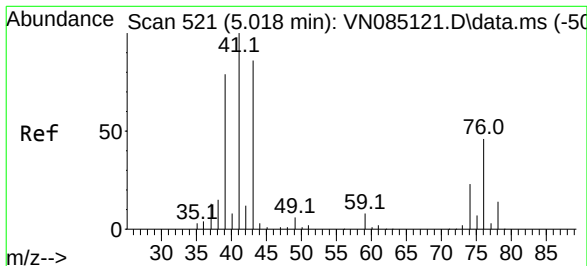
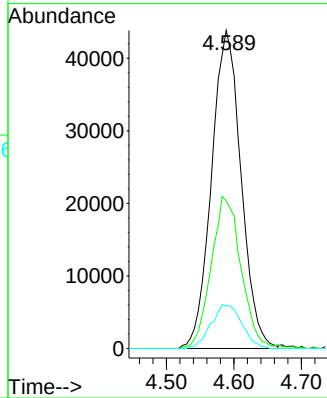
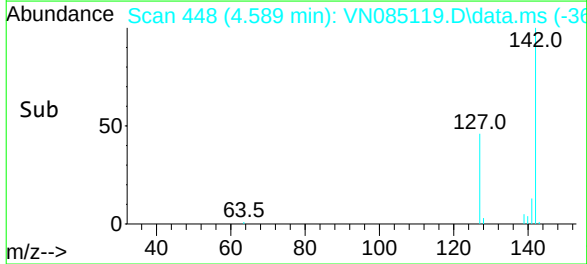
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 142 Resp: 133247
Ion Ratio Lower Upper
142 100
127 45.9 22.5 67.5
141 13.5 8.3 24.9

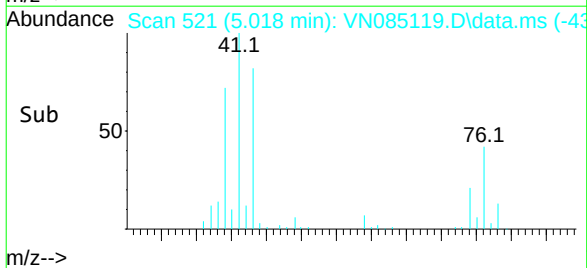
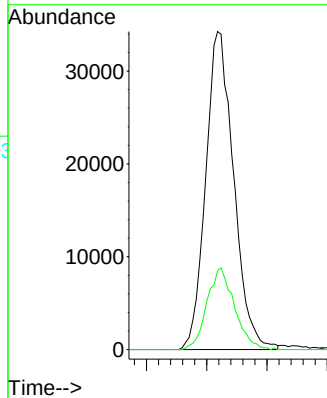
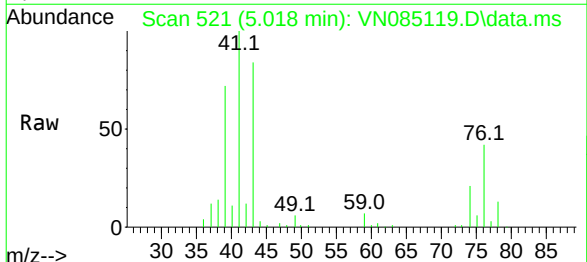
Manual Integrations
APPROVED

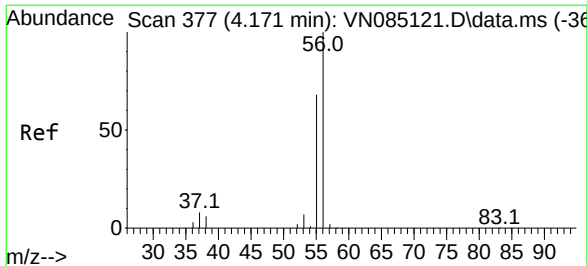
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#12
Methyl Acetate
Concen: 47.166 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 43 Resp: 110575
Ion Ratio Lower Upper
43 100
74 25.0 19.8 29.6





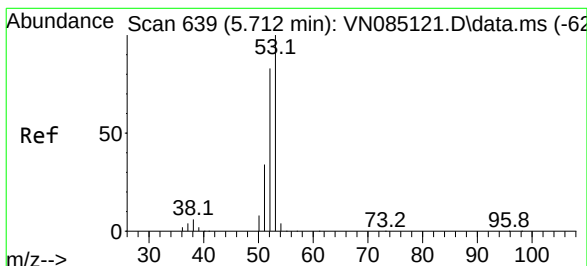
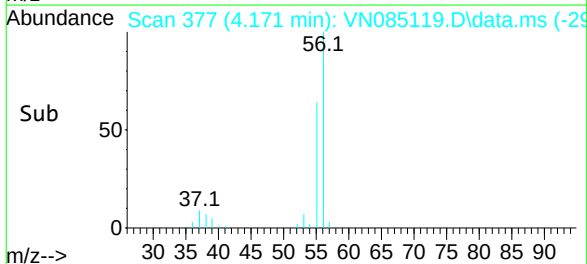
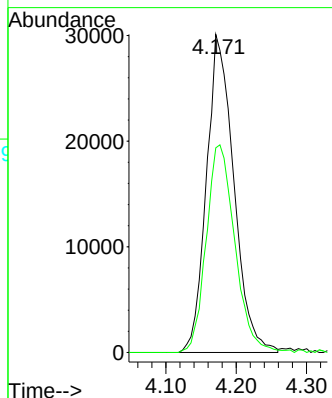
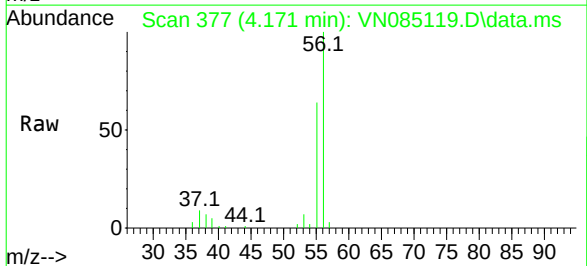
#13
Acrolein
Concen: 238.946 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.012 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 56 Resp: 81406
Ion Ratio Lower Upper
56 100
55 68.3 59.4 89.0

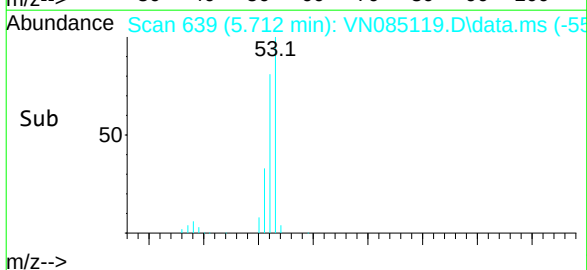
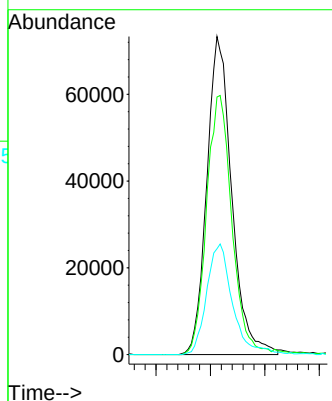
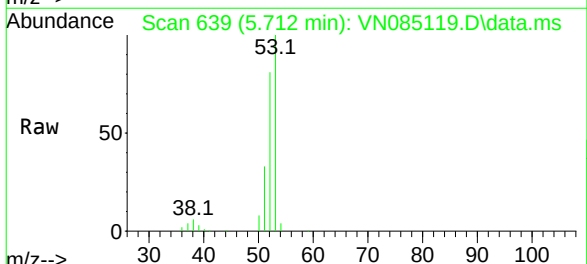
Manual Integrations
APPROVED

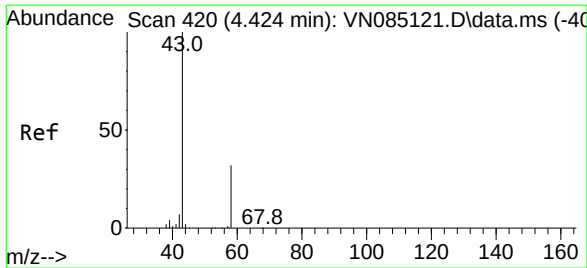
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#14
Acrylonitrile
Concen: 239.739 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 53 Resp: 233375
Ion Ratio Lower Upper
53 100
52 82.5 42.9 128.5
51 36.1 17.2 51.5





#15

Acetone

Concen: 240.283 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 58 Resp: 63386

Ion Ratio Lower Upper

58 100

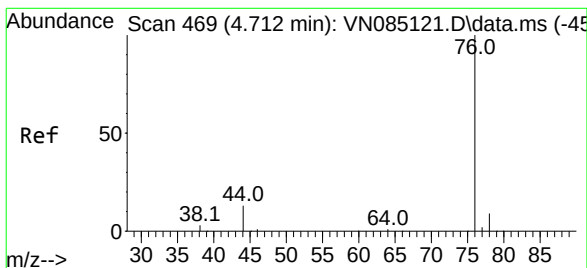
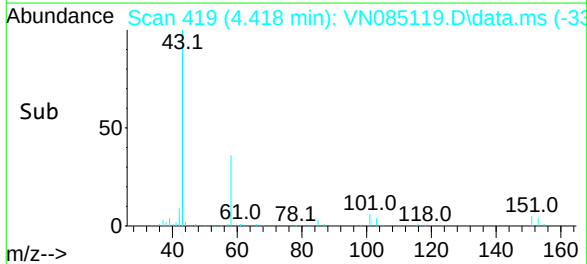
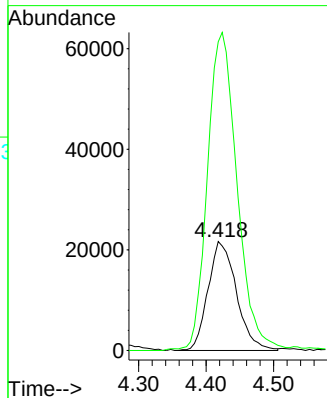
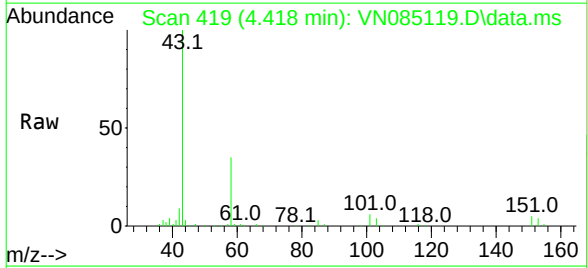
43 281.8 242.3 363.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#16

Carbon Disulfide

Concen: 46.345 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN085119.D

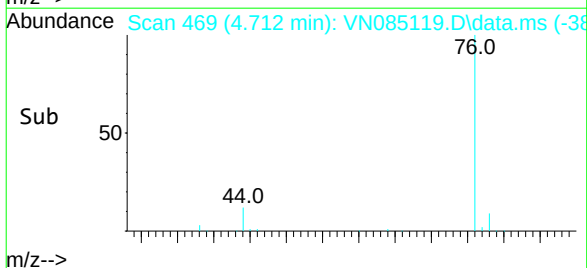
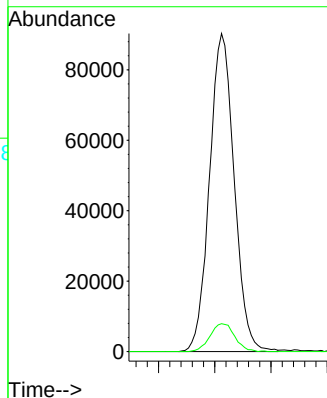
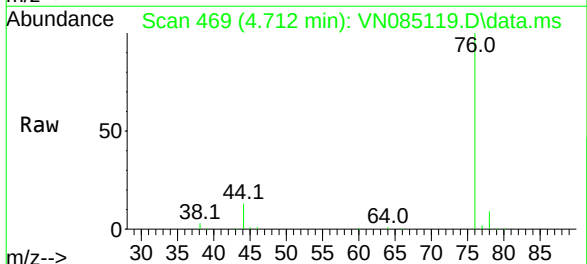
Acq: 06 Dec 2024 10:49

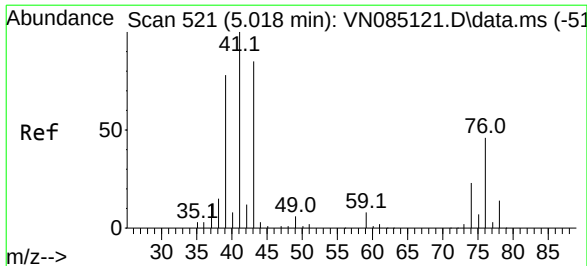
Tgt Ion: 76 Resp: 275285

Ion Ratio Lower Upper

76 100

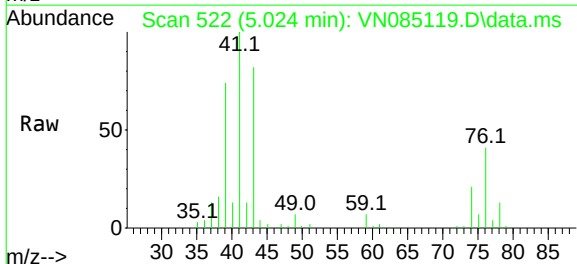
78 8.8 7.1 10.7





#17
Allyl chloride
Concen: 48.333 ug/l
RT: 5.024 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

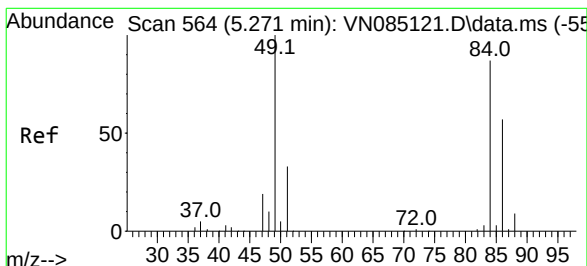
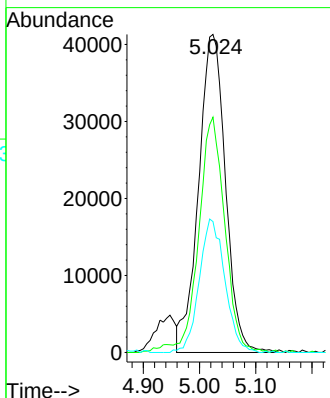
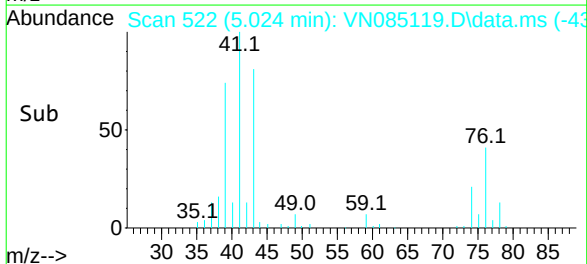
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



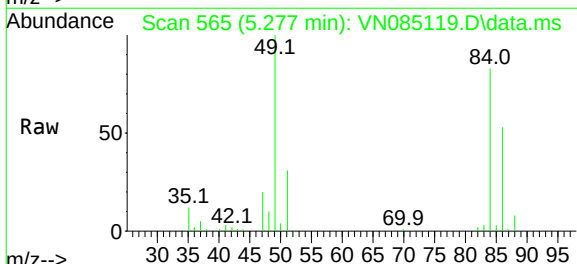
Tgt Ion:	41	Resp:	137437
Ion	Ratio	Lower	Upper
41	100		
39	73.5	32.0	96.2
76	41.3	20.2	60.5

Manual Integrations
APPROVED

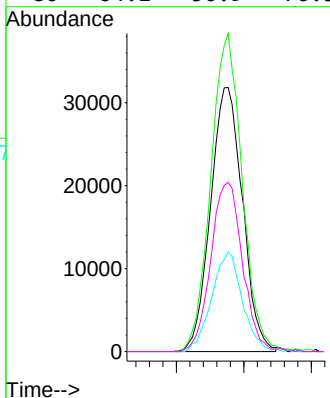
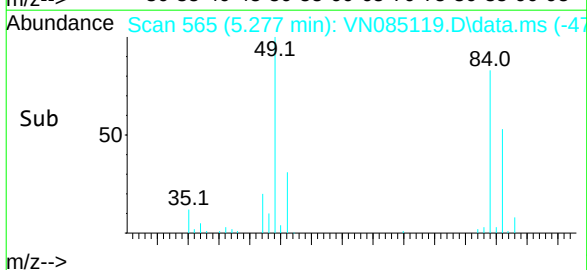
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

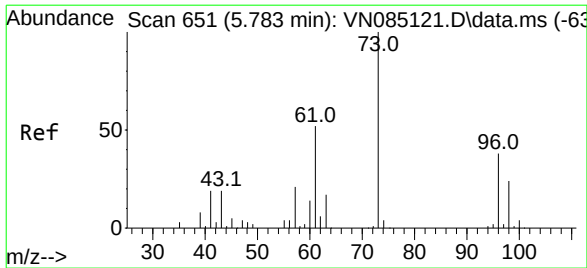


#18
Methylene Chloride
Concen: 46.488 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49



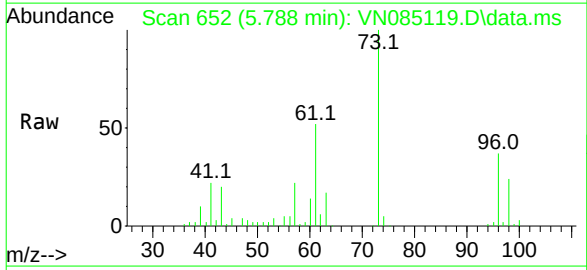
Tgt Ion:	84	Resp:	104822
Ion	Ratio	Lower	Upper
84	100		
49	119.9	95.1	142.7
51	37.7	27.4	41.0
86	64.1	50.9	76.3





#19
trans-1,2-Dichloroethene
Concen: 46.913 ug/l
RT: 5.788 min Scan# 651
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

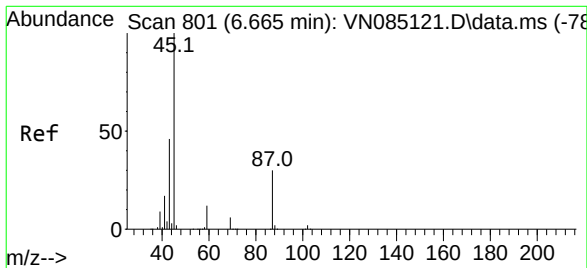
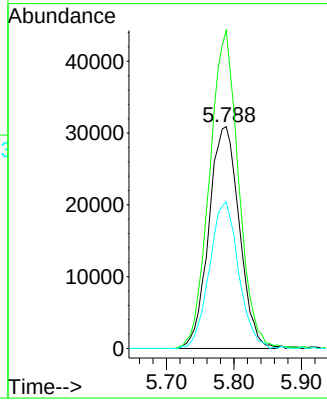
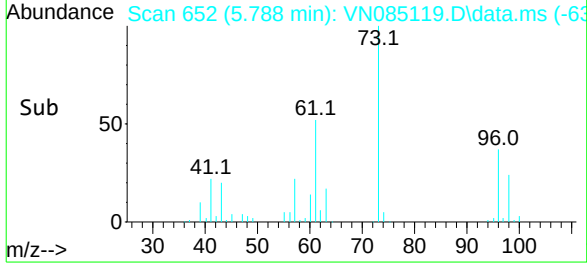
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



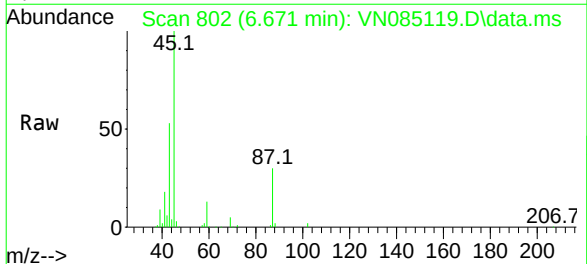
Tgt Ion: 96 Resp: 96901
Ion Ratio Lower Upper
96 100
61 142.7 100.4 150.6
98 66.0 52.6 79.0

Manual Integrations
APPROVED

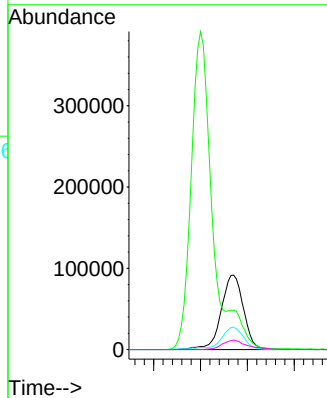
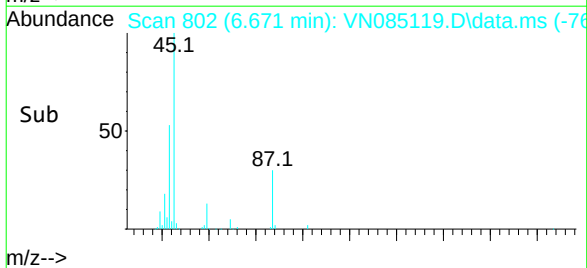
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

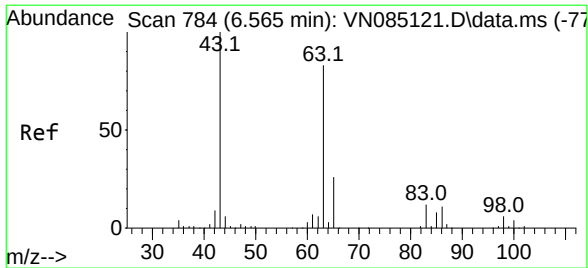


#20
Diisopropyl ether
Concen: 48.342 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49



Tgt Ion: 45 Resp: 301677
Ion Ratio Lower Upper
45 100
43 51.8 41.9 62.9
87 30.1 24.1 36.1
59 12.6 10.0 15.0





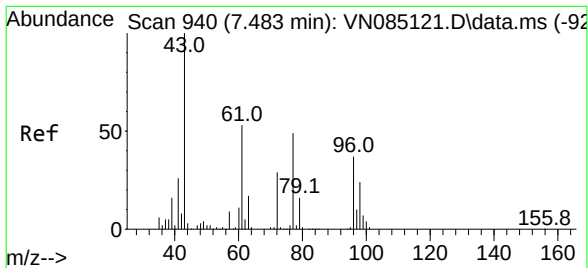
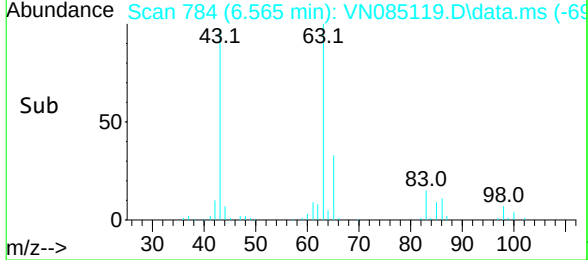
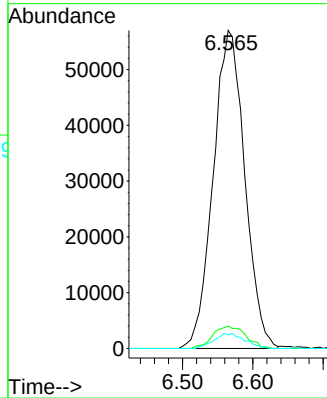
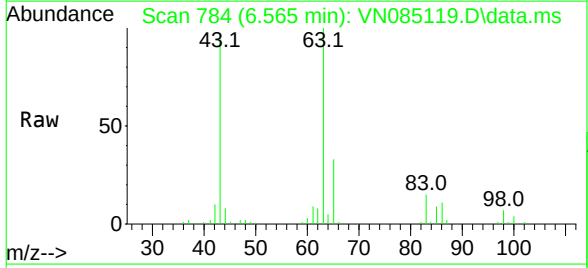
#21
1,1-Dichloroethane
Concen: 46.165 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 63 Resp: 177808
Ion Ratio Lower Upper
63 100
98 7.0 3.5 10.4
100 4.3 1.6 4.8

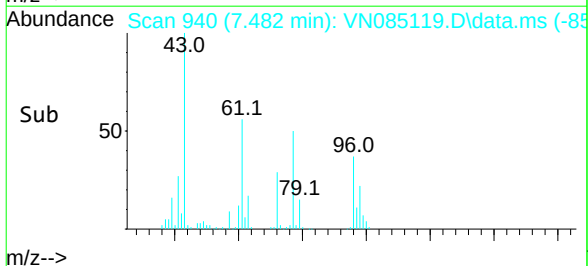
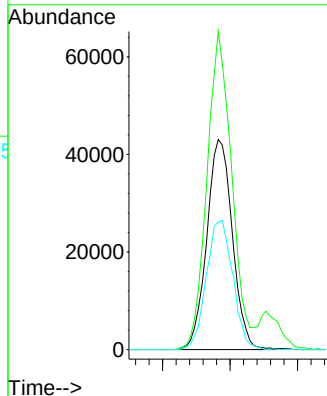
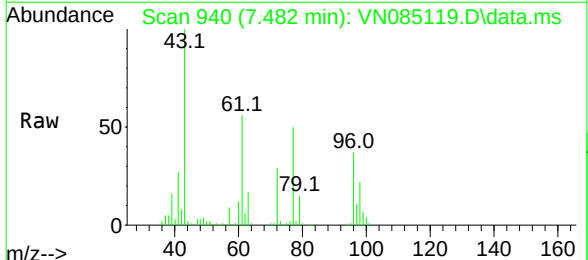
Manual Integrations
APPROVED

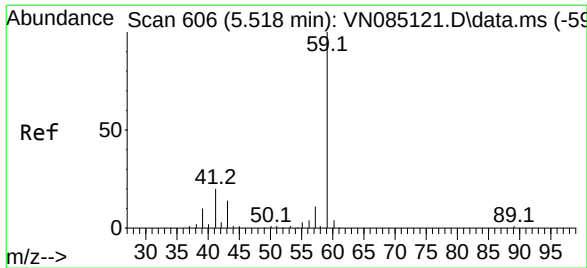
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#22
cis-1,2-Dichloroethene
Concen: 47.926 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 96 Resp: 113782
Ion Ratio Lower Upper
96 100
61 146.6 115.9 173.9
98 63.4 51.8 77.8





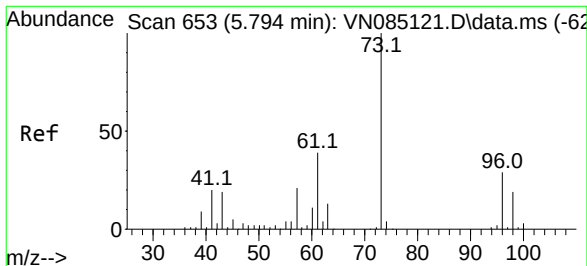
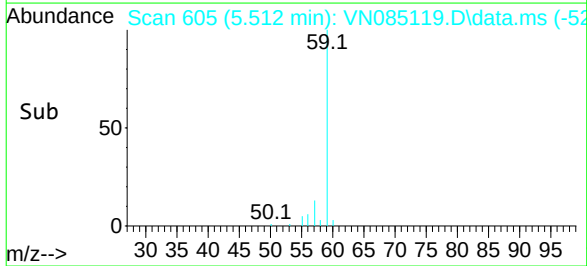
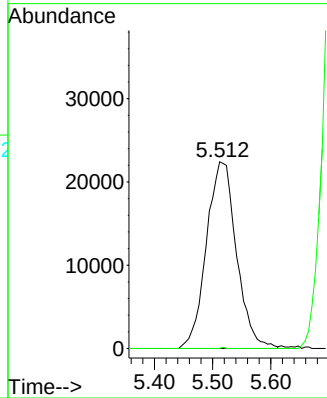
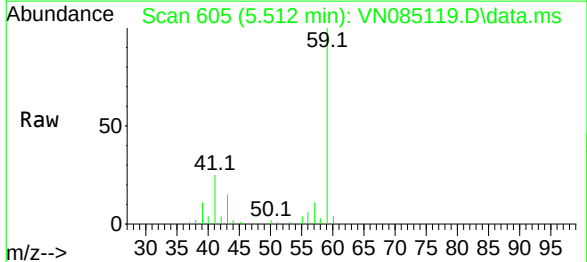
#23
tert-Butyl Alcohol
Concen: 230.265 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 59 Resp: 80412
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

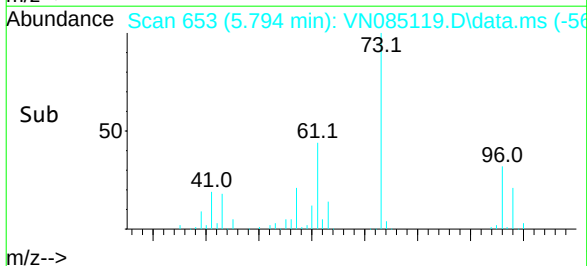
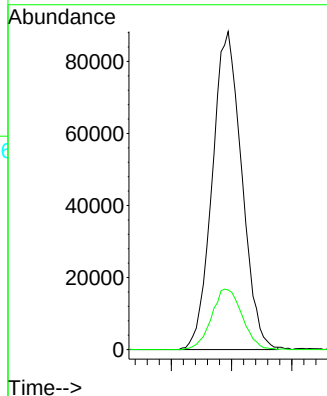
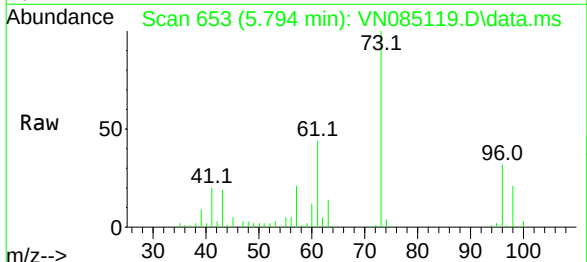
Manual Integrations
APPROVED

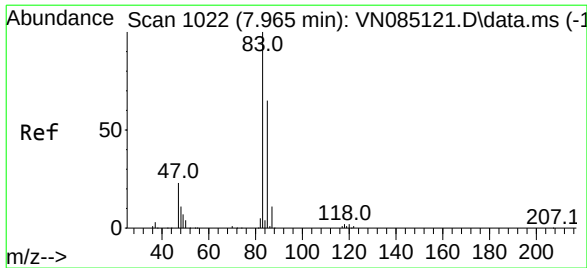
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#24
Methyl tert-Butyl Ether
Concen: 48.425 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 73 Resp: 300411
Ion Ratio Lower Upper
73 100
43 19.7 8.7 13.1#





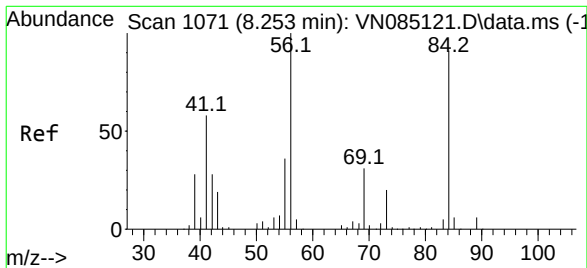
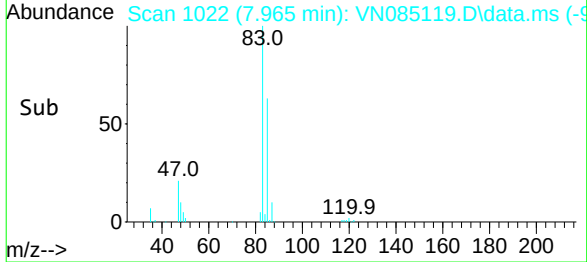
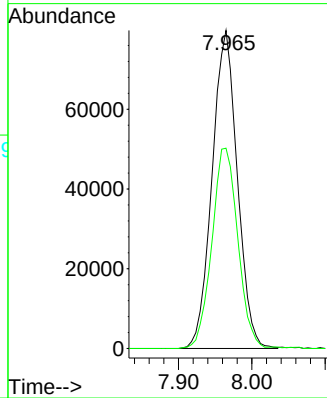
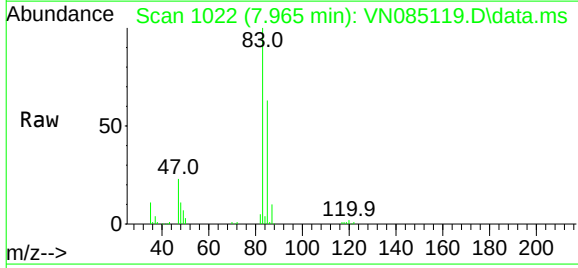
#25
Chloroform
Concen: 47.279 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 83 Resp: 190773
Ion Ratio Lower Upper
83 100
85 63.0 49.4 74.0

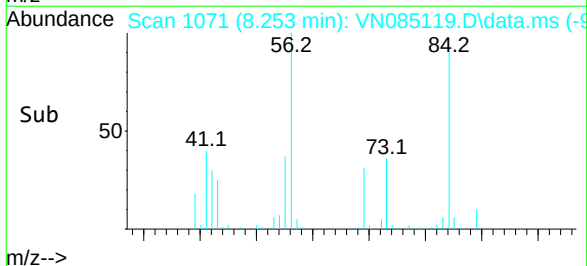
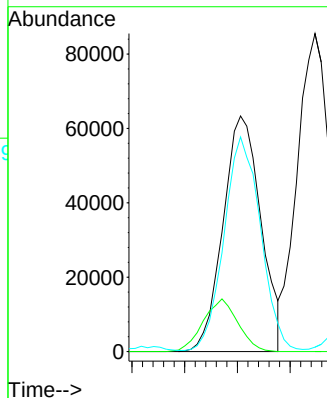
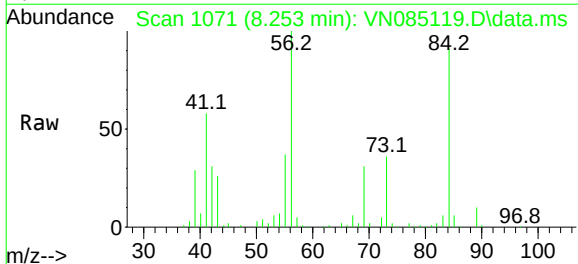
Manual Integrations
APPROVED

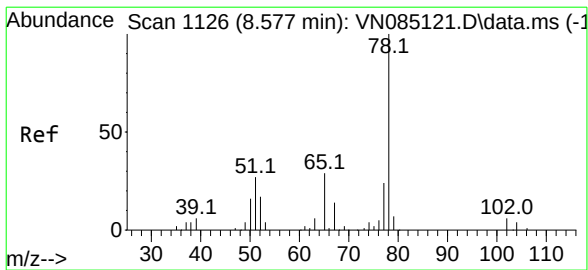
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#26
Cyclohexane
Concen: 49.989 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 56 Resp: 158534
Ion Ratio Lower Upper
56 100
89 20.5 19.5 29.3
84 88.2 70.6 105.8





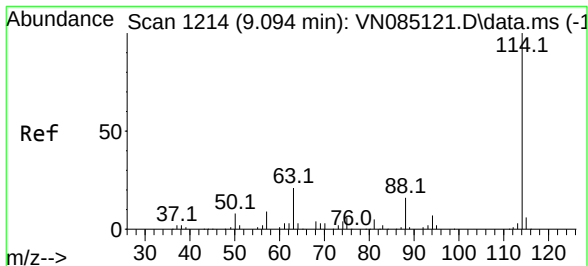
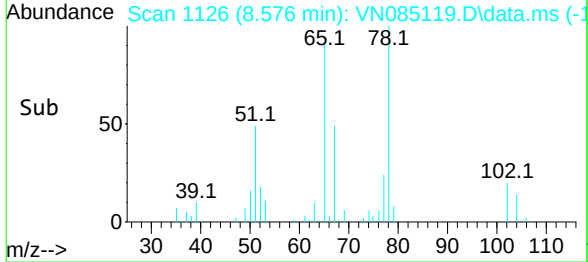
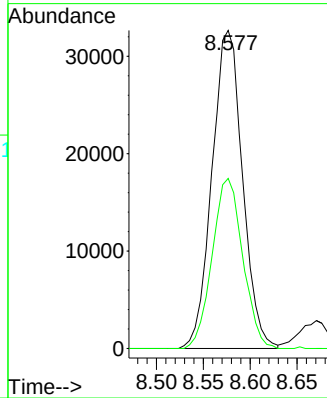
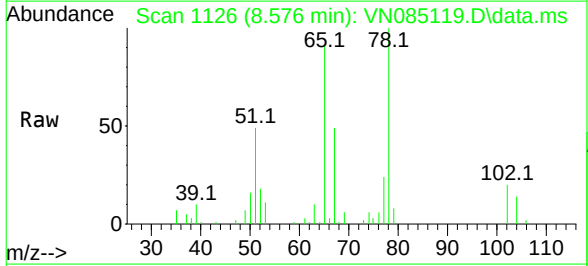
#27
1,2-Dichloroethane-d4
Concen: 28.523 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 65 Resp: 73850
Ion Ratio Lower Upper
65 100
67 53.5 39.9 59.9

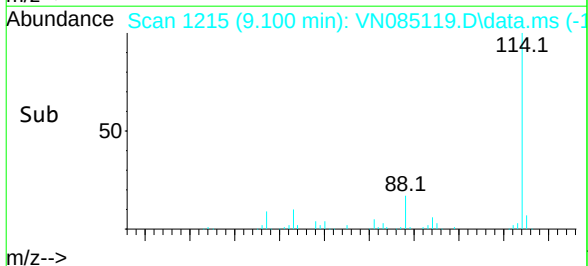
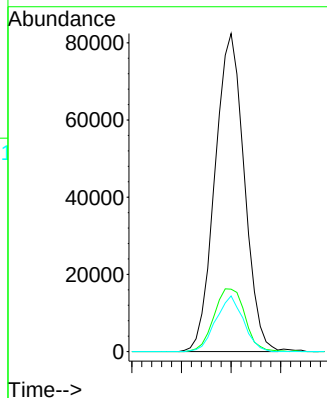
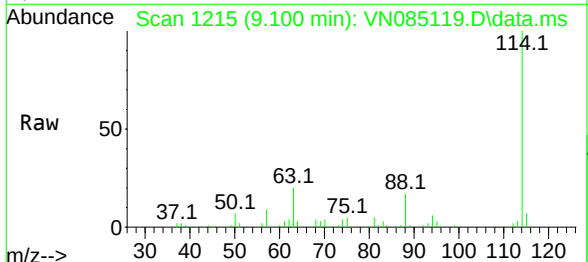
Manual Integrations
APPROVED

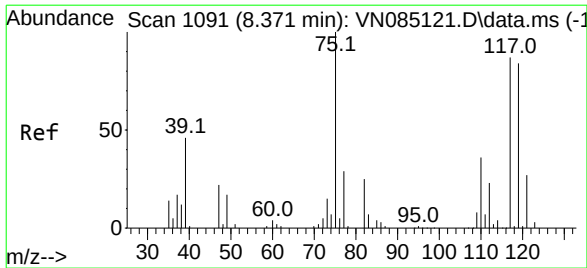
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

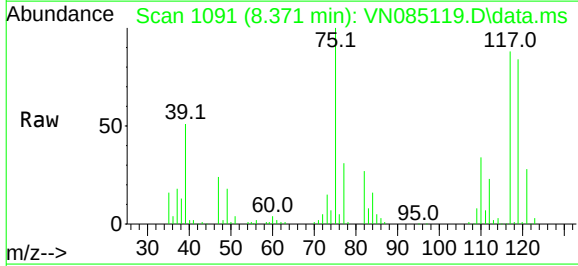
Tgt Ion:114 Resp: 169083
Ion Ratio Lower Upper
114 100
63 20.9 16.2 24.2
88 16.4 12.5 18.7





#29
1,1-Dichloropropene
Concen: 48.360 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

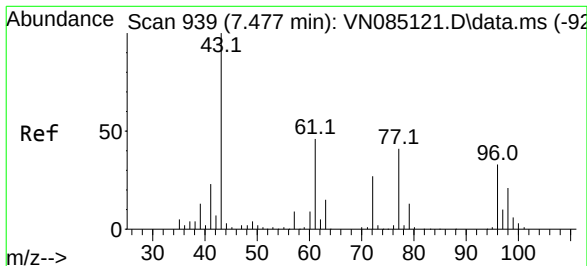
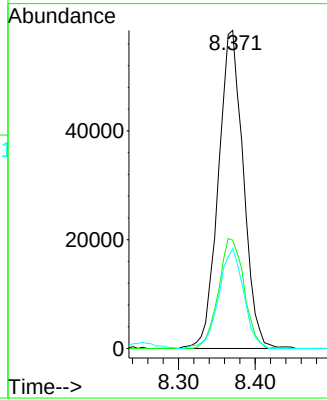
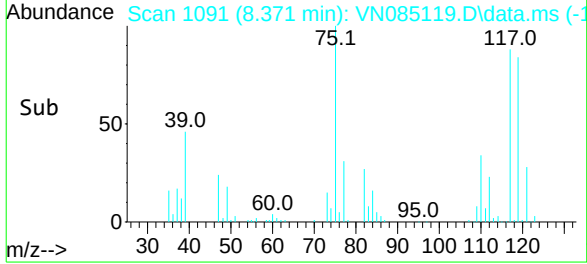
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 75 Resp: 131946
Ion Ratio Lower Upper
75 100
110 35.3 0.0 71.6
77 31.4 0.0 62.2

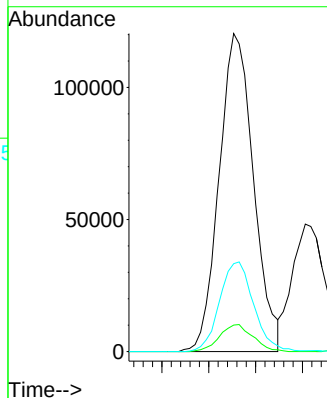
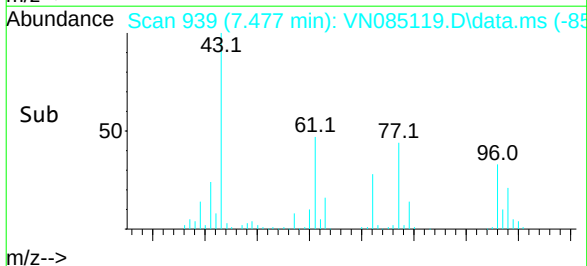
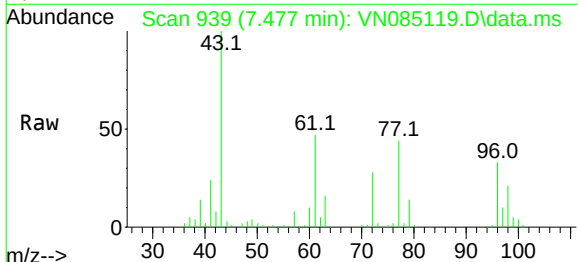
Manual Integrations
APPROVED

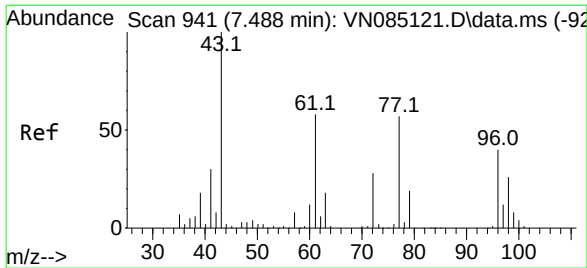
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#30
2-Butanone
Concen: 245.653 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 43 Resp: 307572
Ion Ratio Lower Upper
43 100
57 8.2 6.9 10.3
72 27.8 21.8 32.8





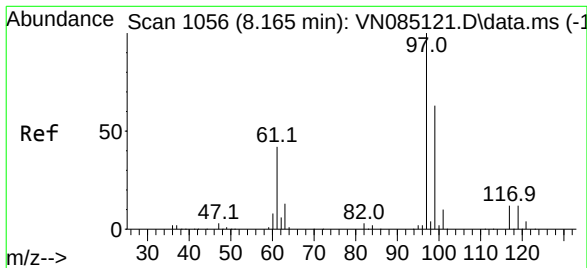
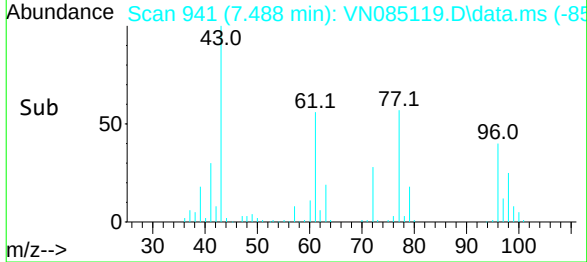
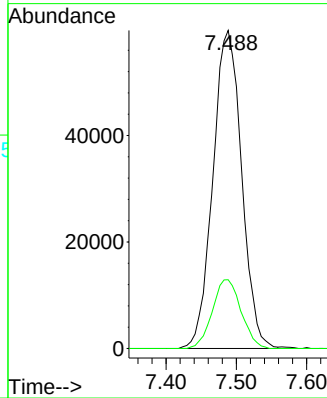
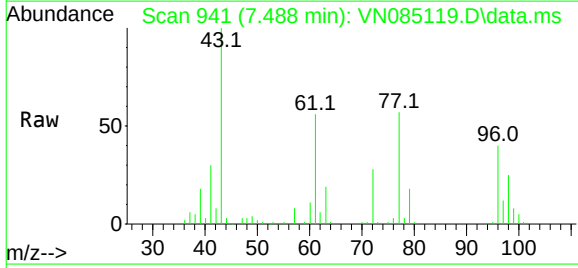
#31
2,2-Dichloropropane
Concen: 48.478 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 77 Resp: 169610
Ion Ratio Lower Upper
77 100
97 21.6 0.0 0.0#

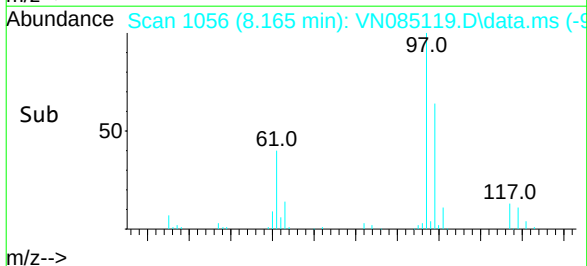
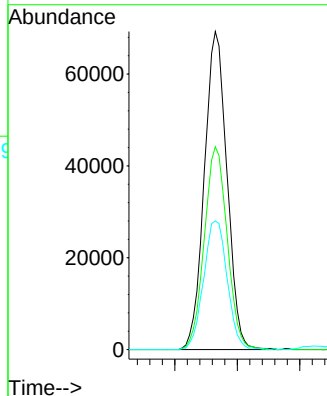
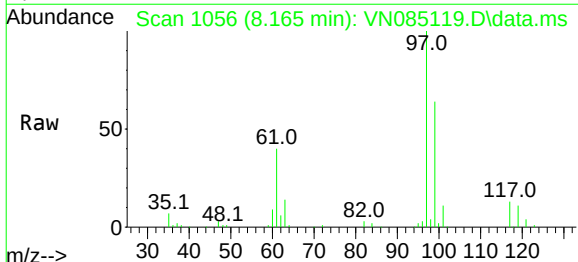
Manual Integrations
APPROVED

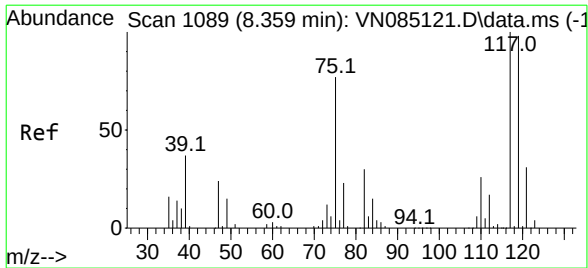
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#32
1,1,1-Trichloroethane
Concen: 47.217 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

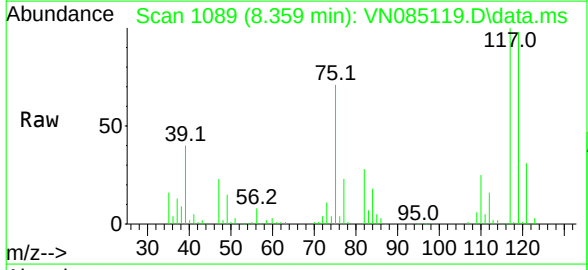
Tgt Ion: 97 Resp: 174371
Ion Ratio Lower Upper
97 100
99 64.6 50.8 76.2
61 42.0 32.7 49.1





#33
Carbon Tetrachloride
Concen: 47.889 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

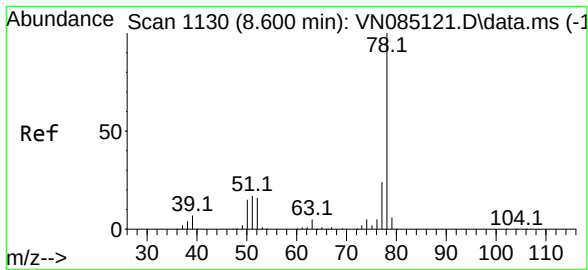
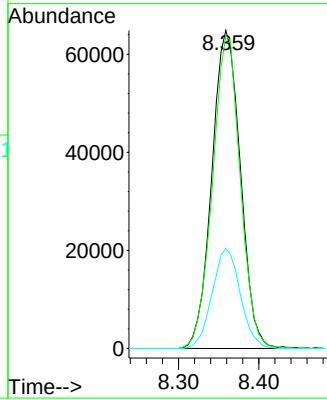
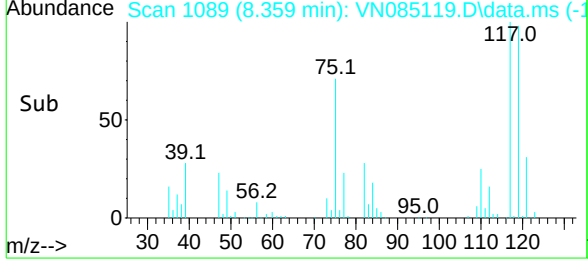
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



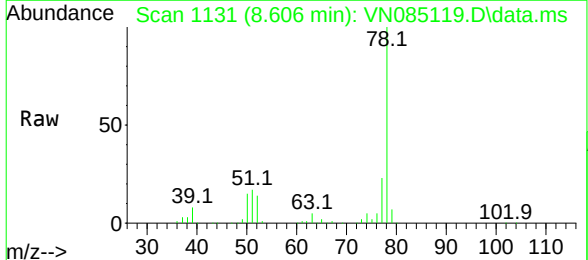
Tgt Ion:117 Resp: 159586
Ion Ratio Lower Upper
117 100
119 98.4 81.6 122.4
121 31.4 26.5 39.7

Manual Integrations
APPROVED

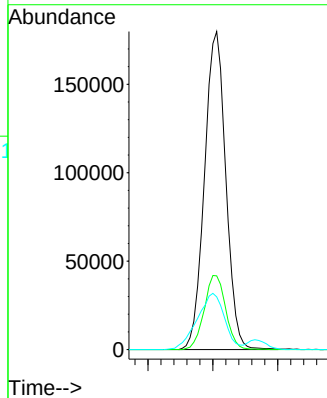
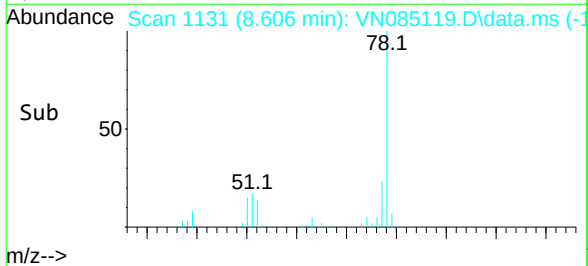
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

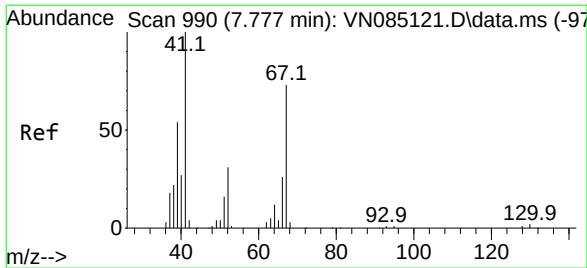


#34
Benzene
Concen: 47.855 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49



Tgt Ion: 78 Resp: 410169
Ion Ratio Lower Upper
78 100
77 23.2 18.0 27.0
51 16.3 12.4 18.6





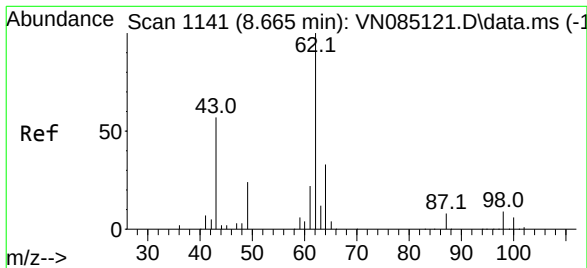
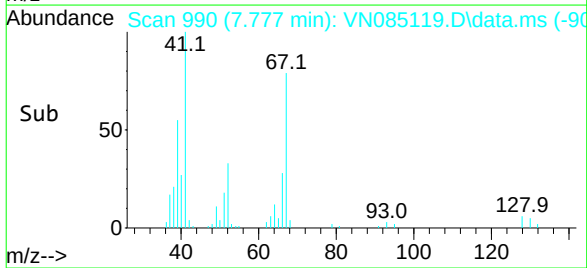
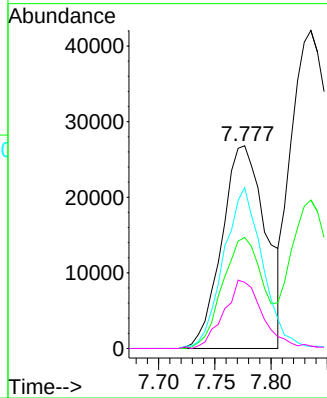
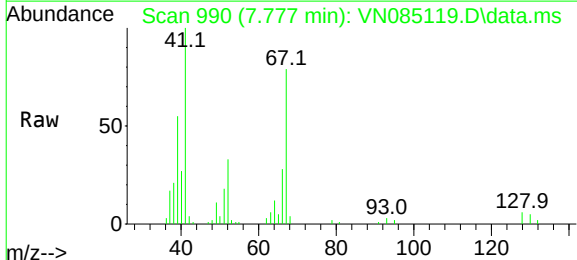
#35
Methacrylonitrile
Concen: 51.722 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 41	Resp: 72876
Ion Ratio	Lower Upper
41 100	
39 54.8	24.4 73.2
67 79.3	37.0 110.9
52 32.6	12.4 37.2

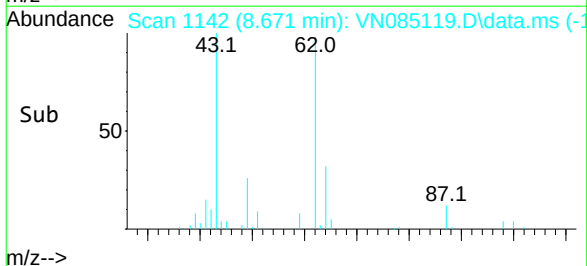
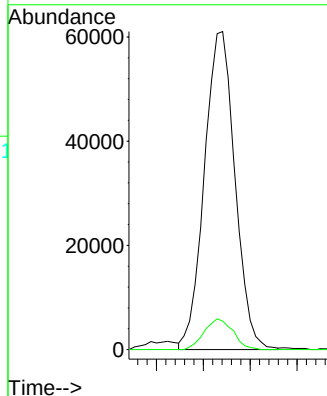
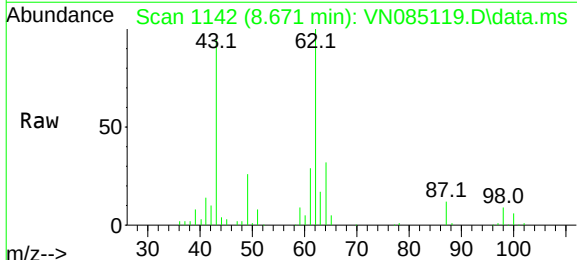
Manual Integrations
APPROVED

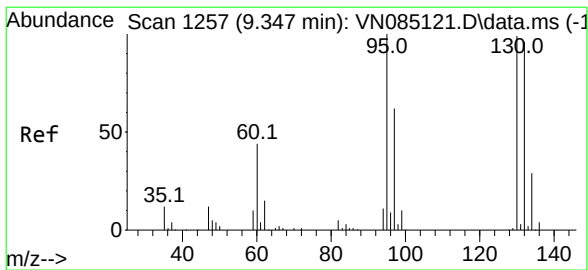
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#36
1,2-Dichloroethane
Concen: 47.430 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

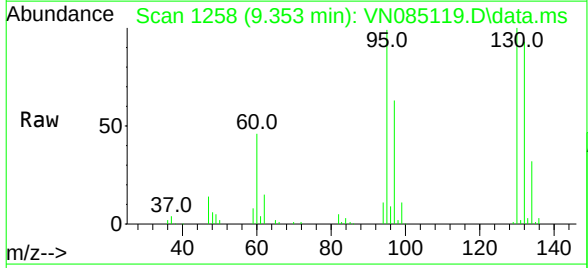
Tgt Ion: 62	Resp: 138391
Ion Ratio	Lower Upper
62 100	
98 9.1	7.3 10.9





#37
 Trichloroethene
 Concen: 47.426 ug/l
 RT: 9.353 min Scan# 1258
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

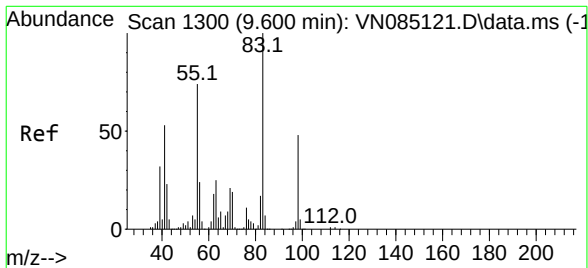
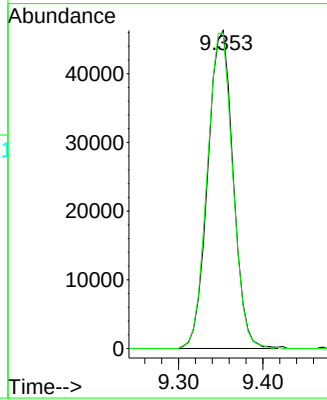
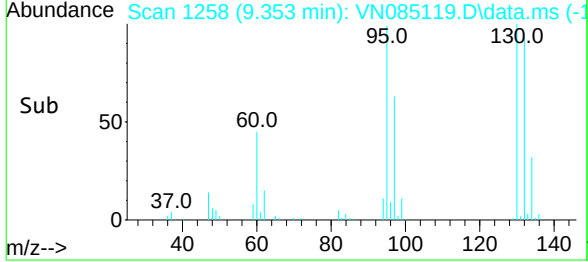
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050



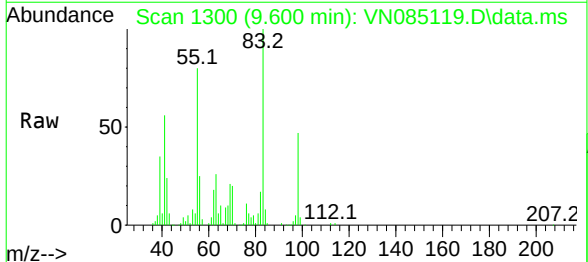
Tgt Ion:130 Resp: 96801
 Ion Ratio Lower Upper
 130 100
 95 99.2 76.2 114.4

Manual Integrations
 APPROVED

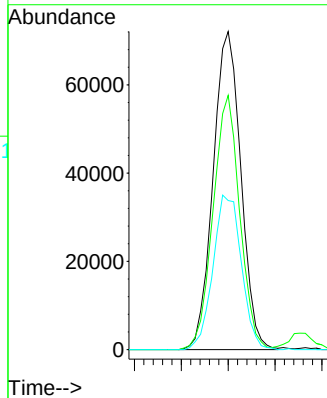
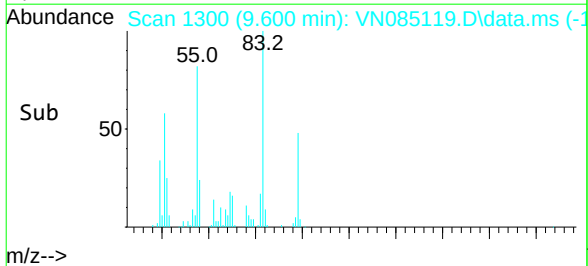
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

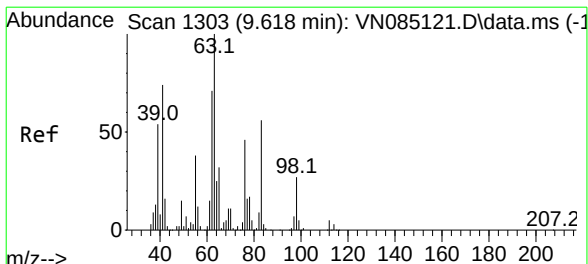


#38
 Methylcyclohexane
 Concen: 49.963 ug/l
 RT: 9.600 min Scan# 1300
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49



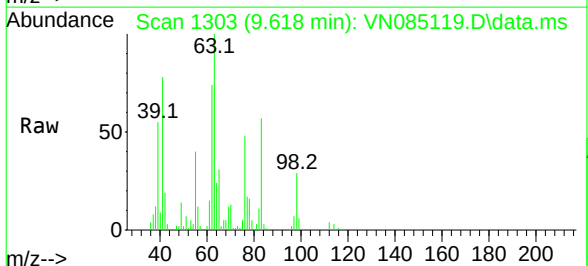
Tgt Ion: 83 Resp: 148222
 Ion Ratio Lower Upper
 83 100
 55 76.8 41.4 124.4
 98 49.6 25.7 77.1





#39
 1,2-Dichloropropane
 Concen: 47.586 ug/l
 RT: 9.618 min Scan# 1303
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

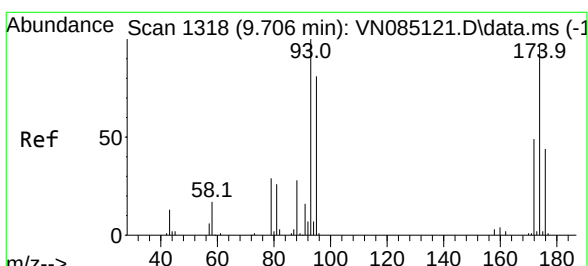
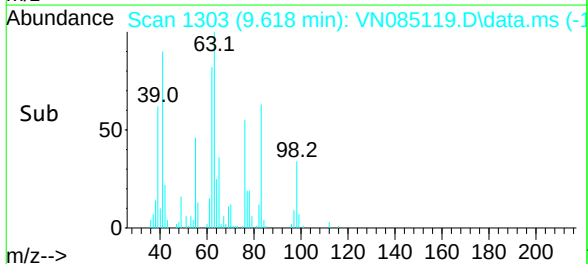
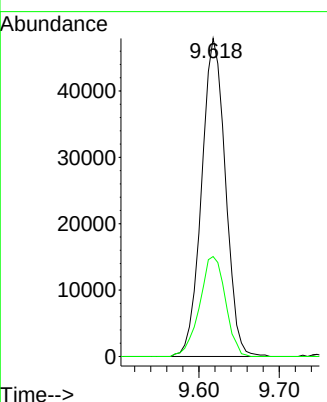
Instrument : MSVOA_N
 ClientSampleId : VSTDICC050



Tgt Ion: 63 Resp: 98796

Ion	Ratio	Lower	Upper
63	100		
65	31.4	23.4	35.0

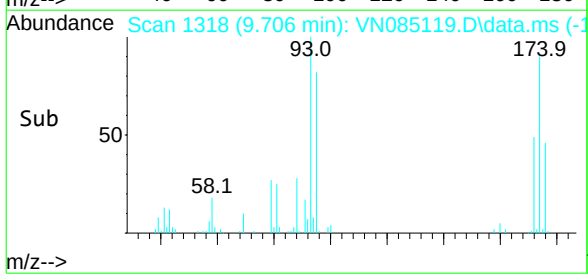
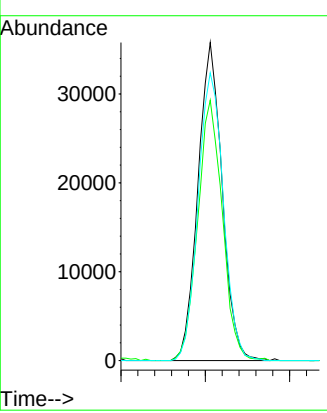
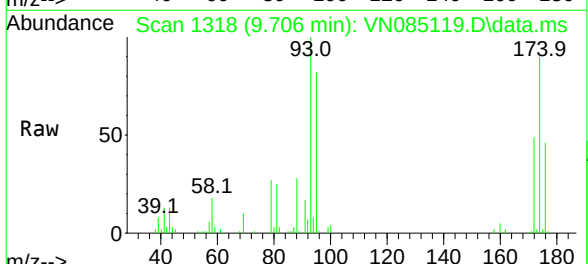
Manual Integrations
APPROVED
 Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

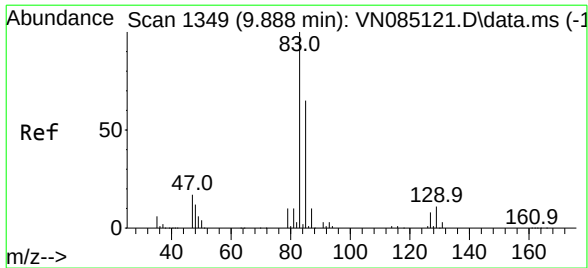


#40
 Dibromomethane
 Concen: 47.969 ug/l
 RT: 9.706 min Scan# 1318
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

Tgt Ion: 93 Resp: 71433

Ion	Ratio	Lower	Upper
93	100		
95	83.1	0.0	169.4
174	94.4	0.0	189.8





#41
Bromodichloromethane
Concen: 47.898 ug/l
RT: 9.882 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

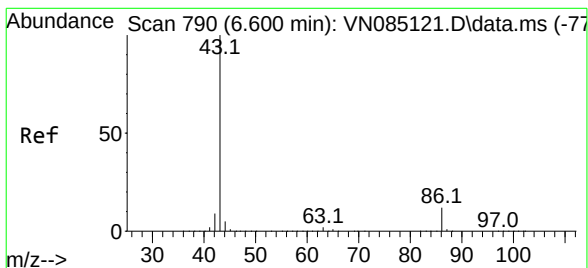
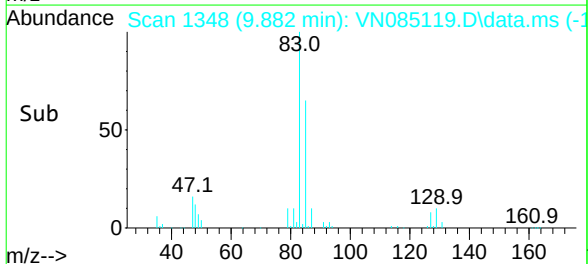
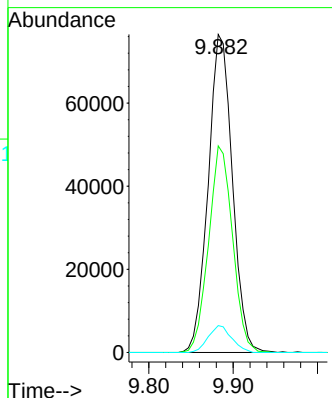
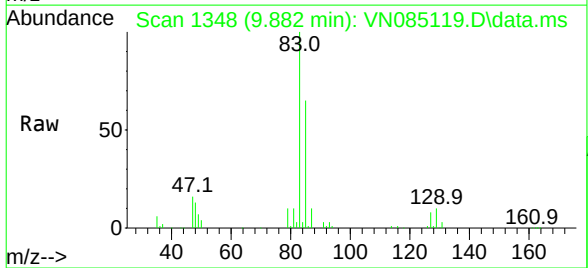
ClientSampleId :

VSTDICC050

Tgt Ion:	83	Resp:	152481
Ion	Ratio	Lower	Upper
83	100		
85	65.0	54.6	81.8
127	8.5	7.0	10.6

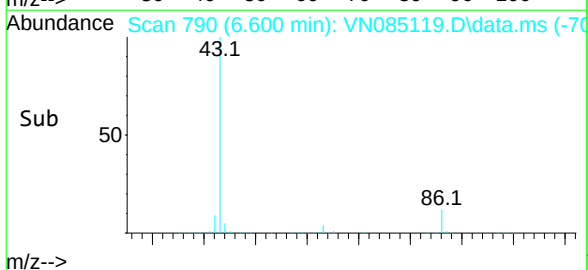
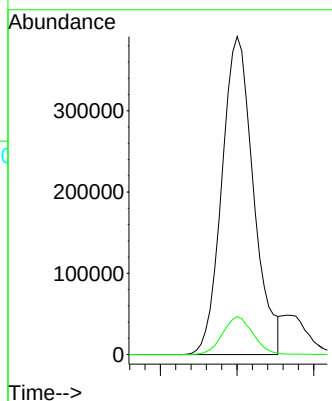
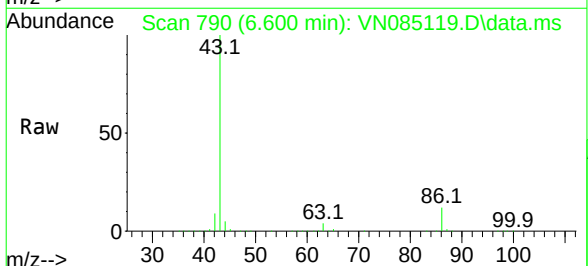
Manual Integrations
APPROVED

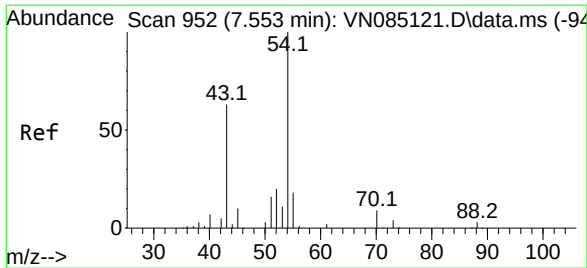
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#42
Vinyl Acetate
Concen: 256.138 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:	43	Resp:	1122209
Ion	Ratio	Lower	Upper
43	100		
86	11.5	9.2	13.8





#43

Ethyl Acetate

Concen: 49.844 ug/l

RT: 7.553 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 124173

Ion Ratio Lower Upper

43 100

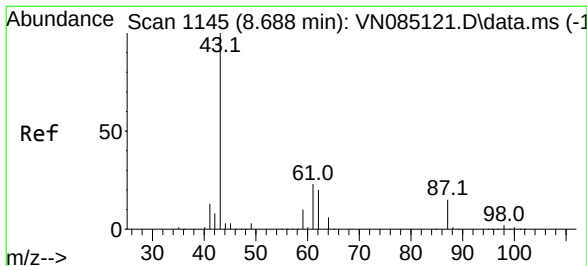
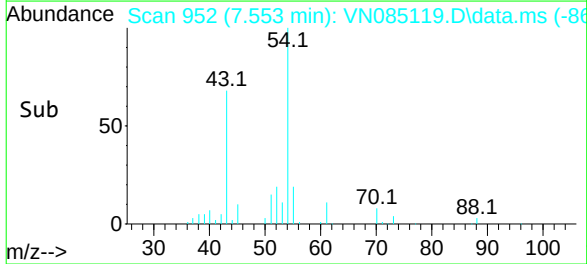
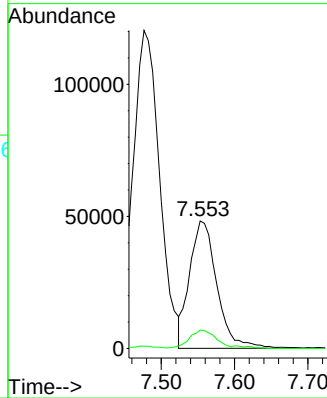
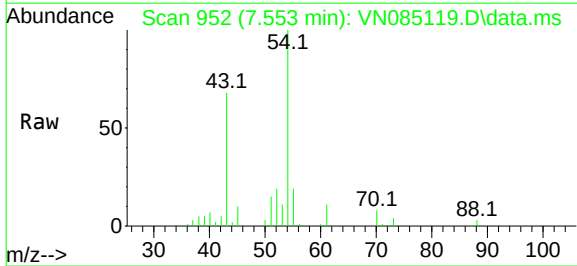
45 13.1 13.3 19.9#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#44

Isopropyl Acetate

Concen: 48.782 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN085119.D

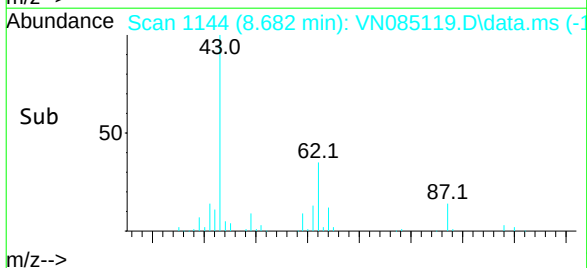
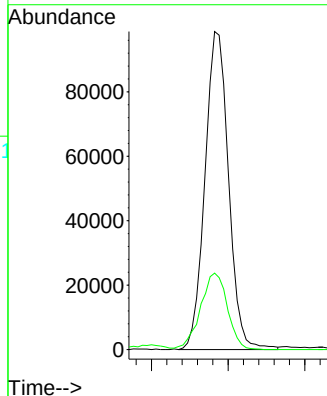
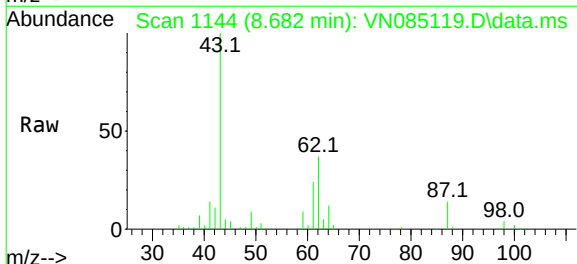
Acq: 06 Dec 2024 10:49

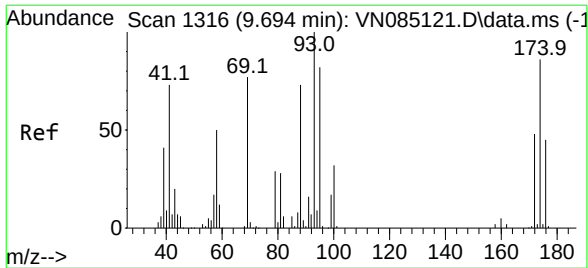
Tgt Ion: 43 Resp: 211189

Ion Ratio Lower Upper

43 100

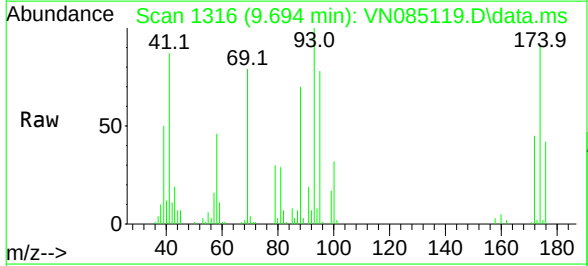
61 27.4 21.5 32.3





#45
1,4-Dioxane
Concen: 989.420 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

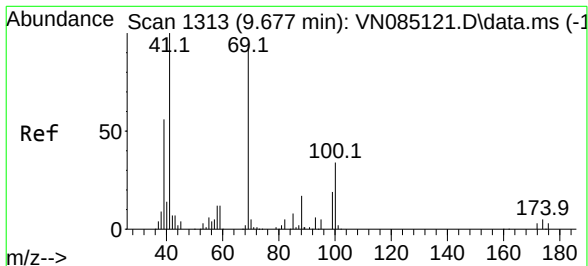
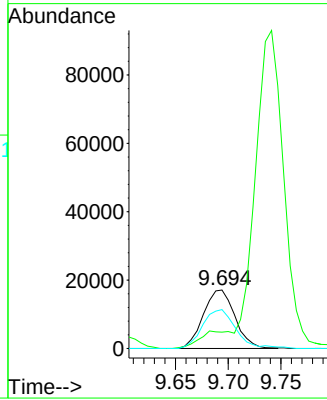
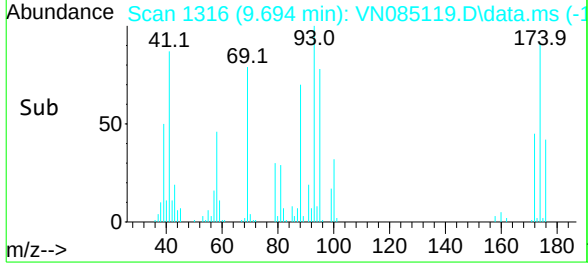
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



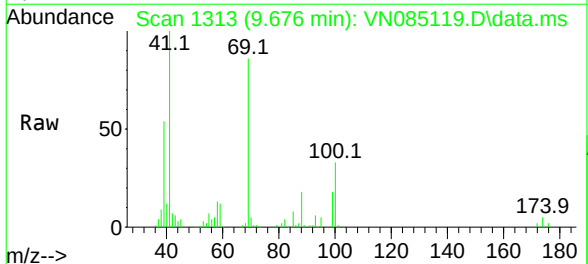
Tgt Ion: 88 Resp: 35720
Ion Ratio Lower Upper
88 100
43 22.5 21.7 32.5
58 68.0 52.6 79.0

Manual Integrations
APPROVED

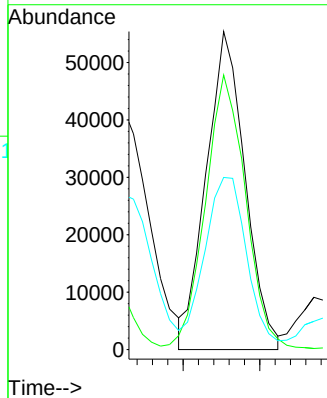
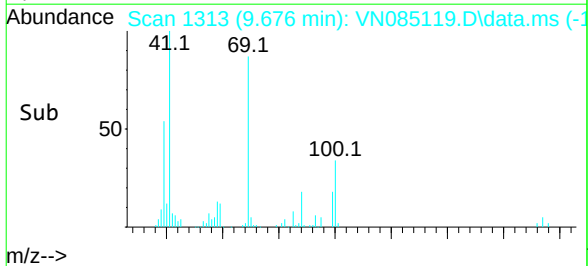
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

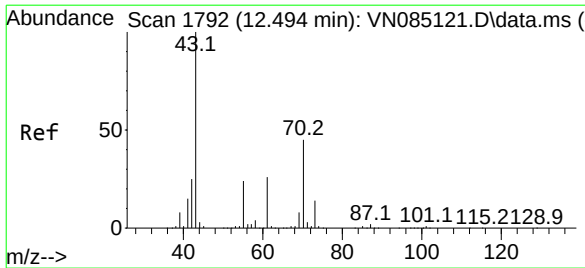


#46
Methyl methacrylate
Concen: 49.158 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49



Tgt Ion: 41 Resp: 97397
Ion Ratio Lower Upper
41 100
69 86.6 46.7 140.0
39 53.6 28.5 85.5





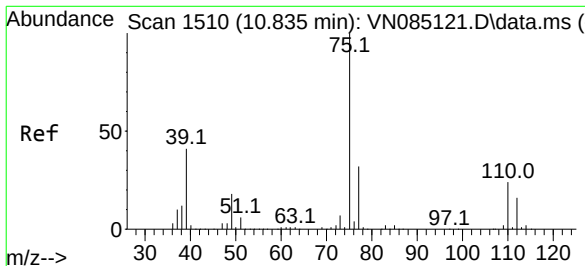
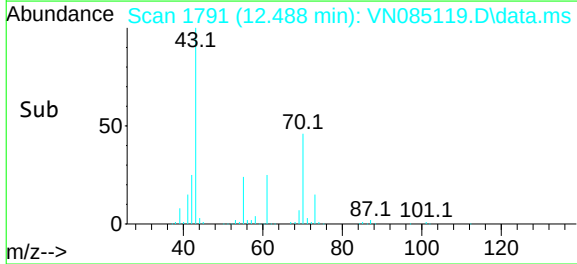
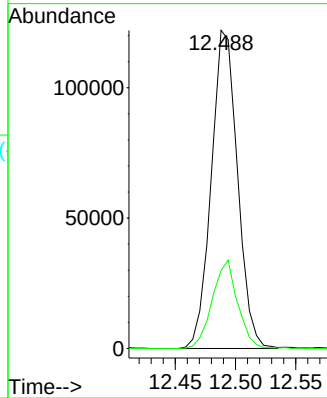
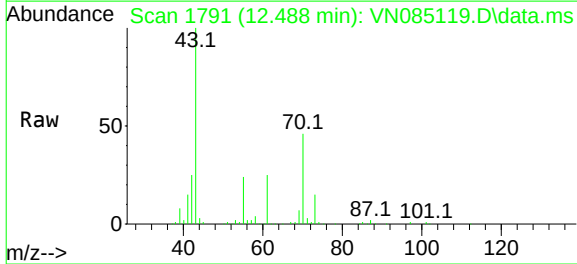
#47
n-amy1 Acetate
Concen: 50.788 ug/l
RT: 12.488 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 43 Resp: 184994
Ion Ratio Lower Upper
43 100
55 26.6 23.3 34.9

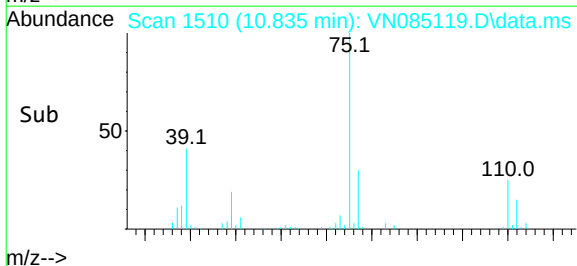
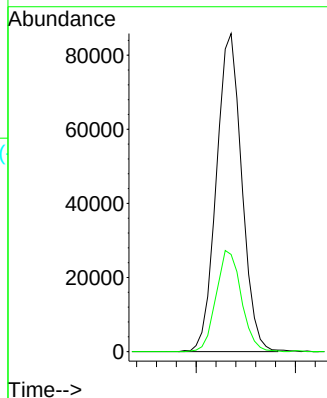
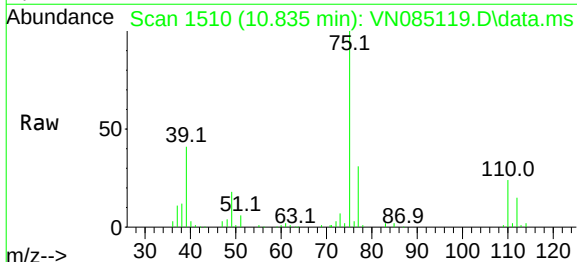
Manual Integrations
APPROVED

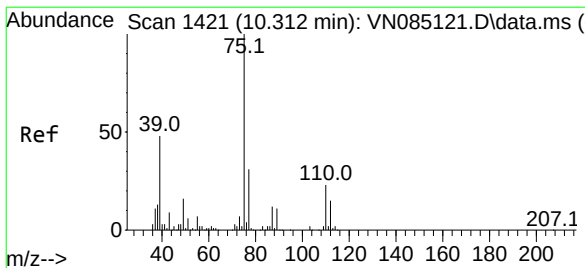
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#48
t-1,3-Dichloropropene
Concen: 48.801 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 75 Resp: 152504
Ion Ratio Lower Upper
75 100
77 30.5 25.5 38.3





#49

cis-1,3-Dichloropropene

Concen: 48.292 ug/l

RT: 10.306 min Scan# 14

Delta R.T. -0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 164287

Ion Ratio Lower Upper

75 100

77 28.4 23.8 35.6

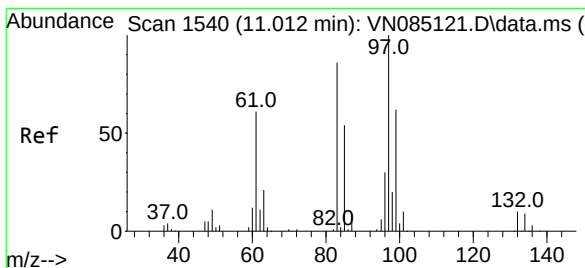
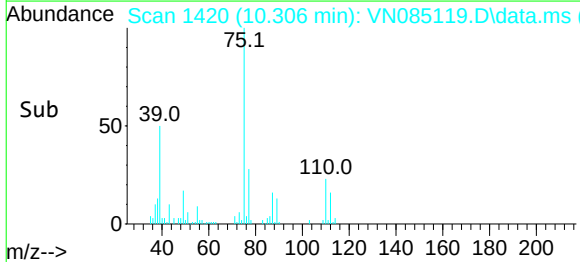
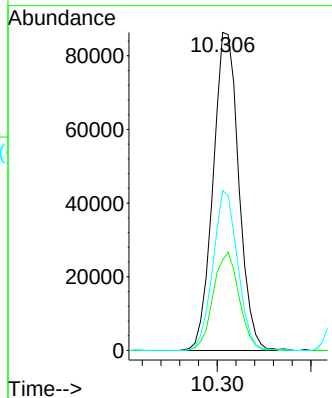
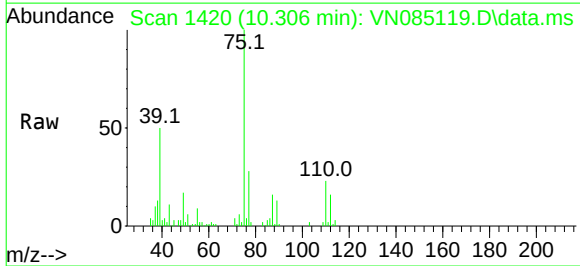
39 50.3 37.3 55.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#50

1,1,2-Trichloroethane

Concen: 47.189 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Tgt Ion: 97 Resp: 94692

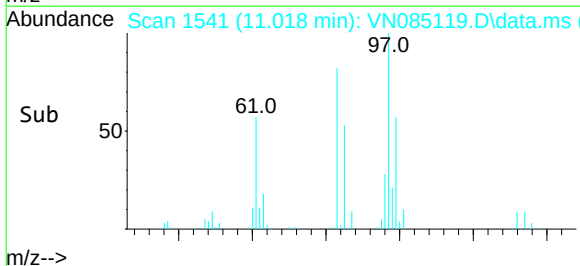
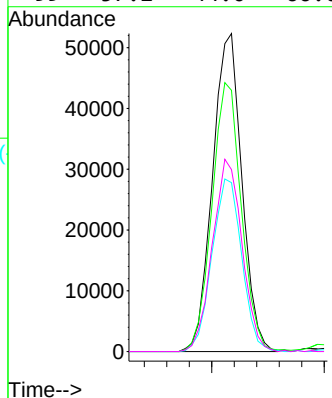
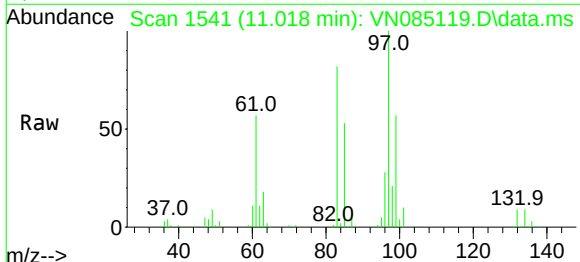
Ion Ratio Lower Upper

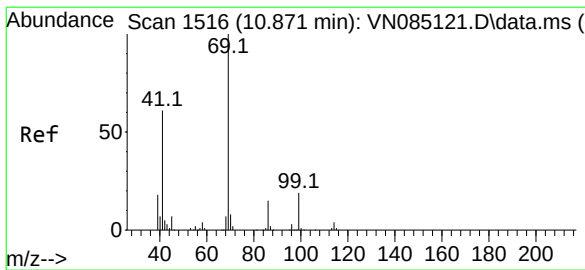
97 100

83 82.1 65.8 98.8

85 53.1 40.8 61.2

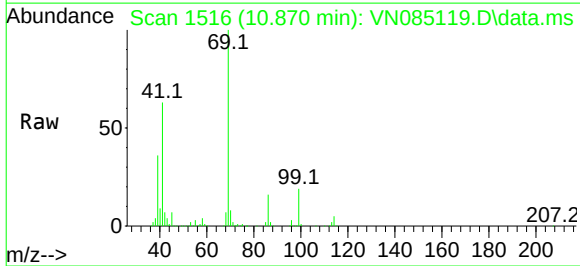
99 57.2 44.0 66.0





#51
Ethyl methacrylate
Concen: 50.057 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

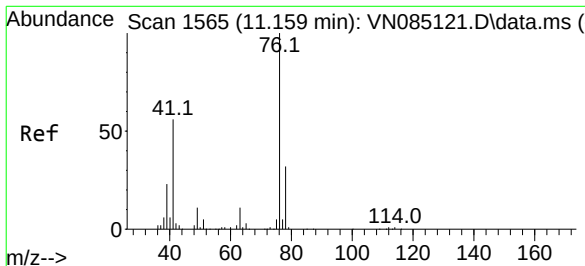
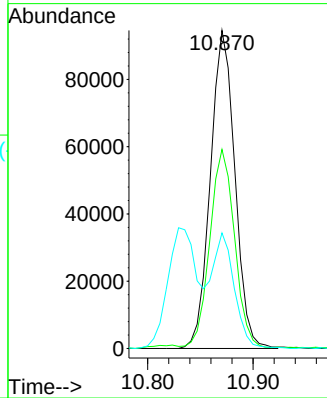
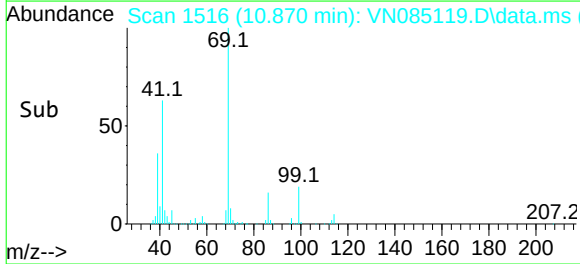
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 69 Resp: 152776
Ion Ratio Lower Upper
69 100
41 62.1 32.1 96.3
39 36.0 18.8 56.4

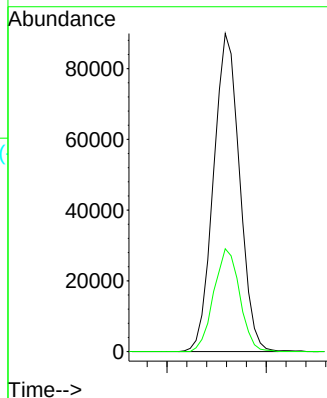
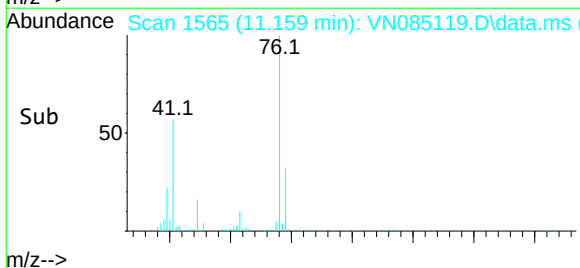
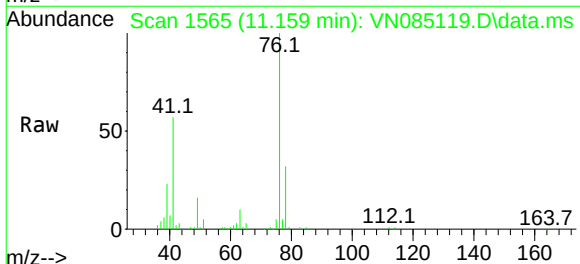
Manual Integrations
APPROVED

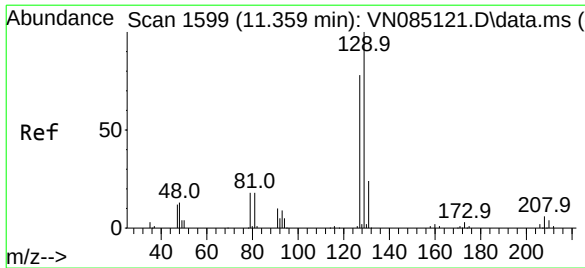
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#52
1,3-Dichloropropane
Concen: 48.874 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 76 Resp: 164130
Ion Ratio Lower Upper
76 100
78 32.2 0.0 65.6





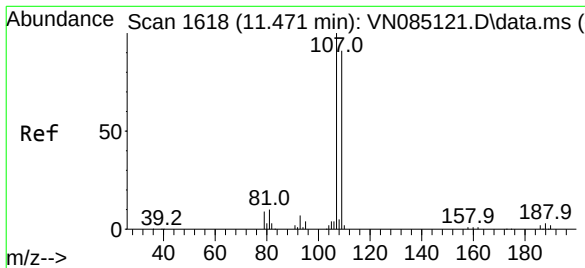
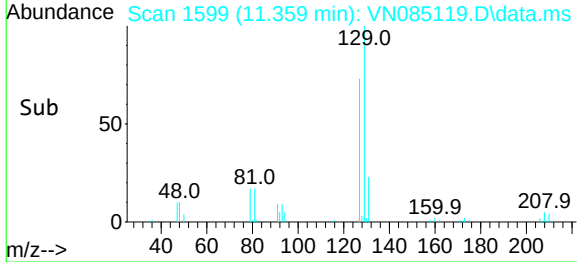
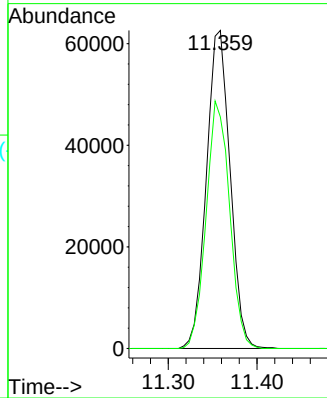
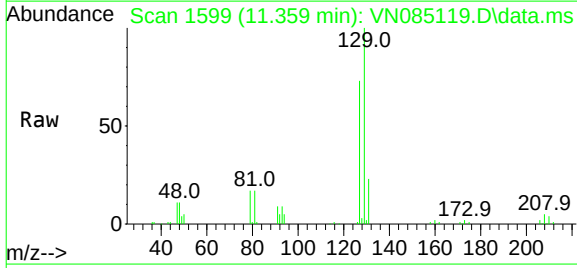
#53
Dibromochloromethane
Concen: 47.550 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion:129 Resp: 116277
Ion Ratio Lower Upper
129 100
127 76.9 37.3 111.9

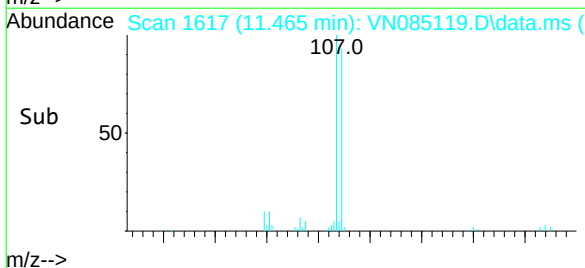
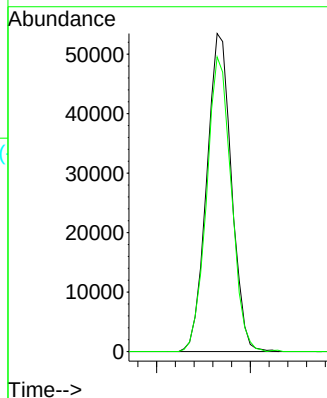
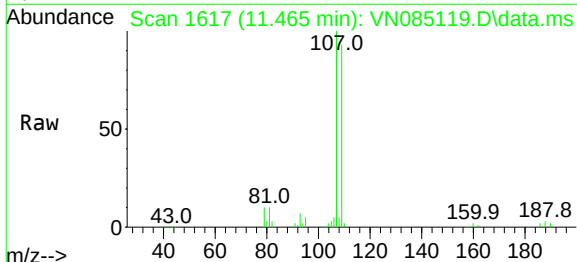
Manual Integrations
APPROVED

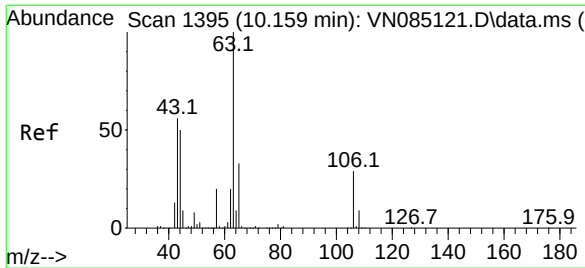
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#54
1,2-Dibromoethane
Concen: 48.496 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

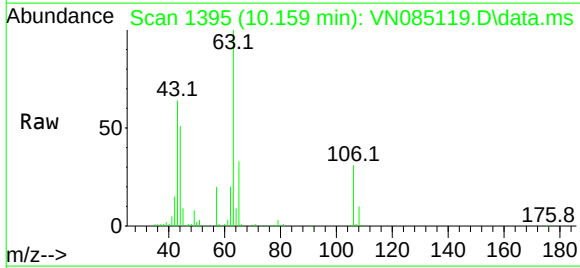
Tgt Ion:107 Resp: 98049
Ion Ratio Lower Upper
107 100
109 92.2 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 256.062 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

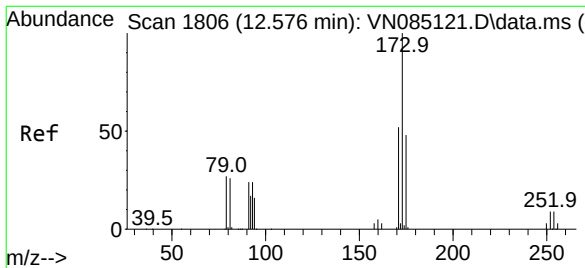
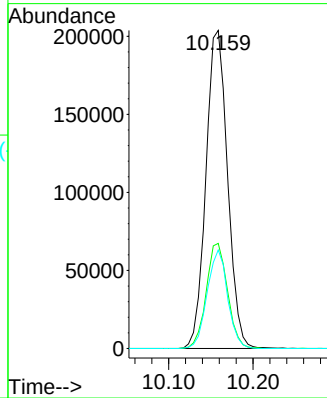
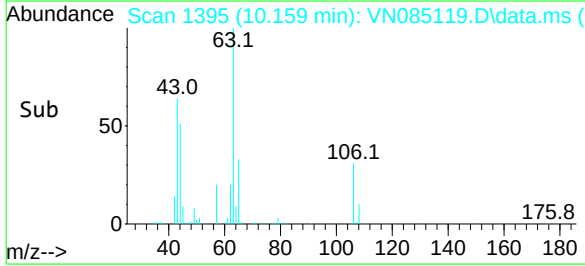
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 63 Resp: 363042
Ion Ratio Lower Upper
63 100
65 32.5 25.9 38.9
106 29.3 23.5 35.3

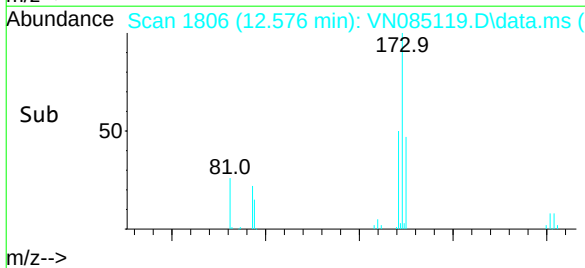
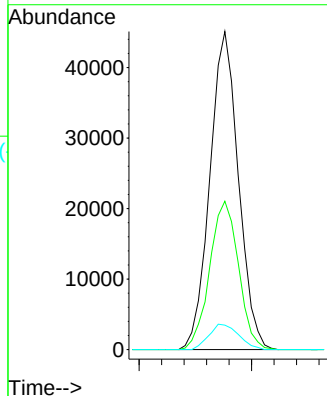
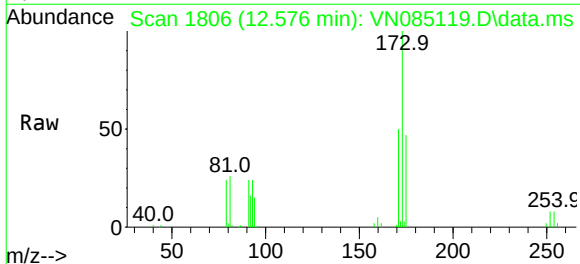
Manual Integrations
APPROVED

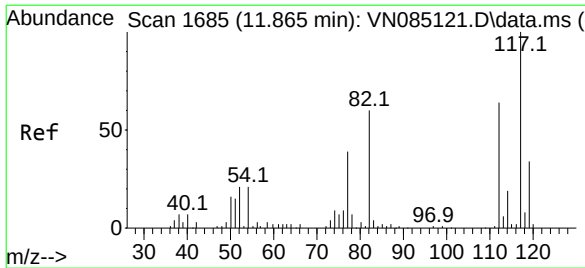
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#56
Bromoform
Concen: 48.542 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

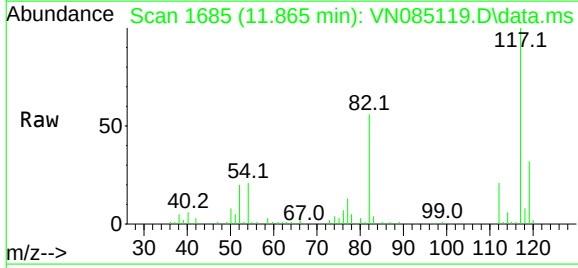
Tgt Ion:173 Resp: 79589
Ion Ratio Lower Upper
173 100
175 47.1 40.2 60.2
254 8.3 6.2 9.4





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

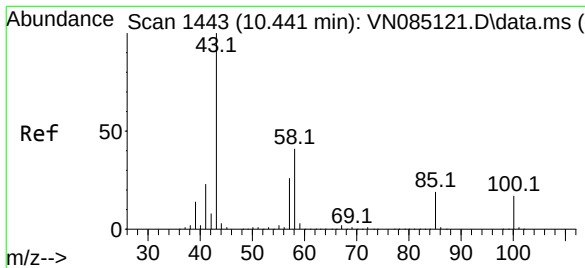
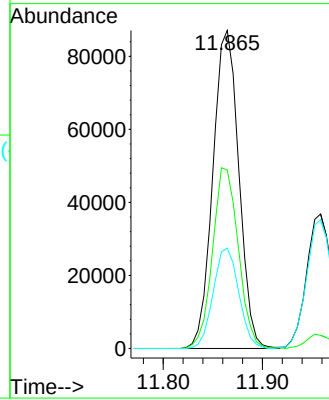
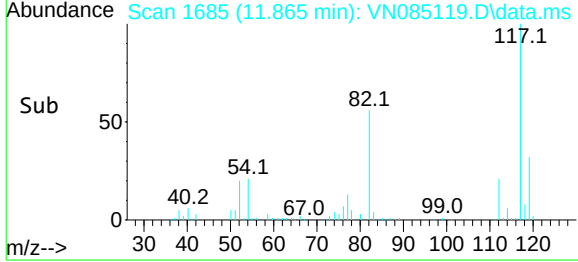
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 117 Resp: 158595
Ion Ratio Lower Upper
117 100
82 56.4 44.2 66.4
119 31.1 25.4 38.2

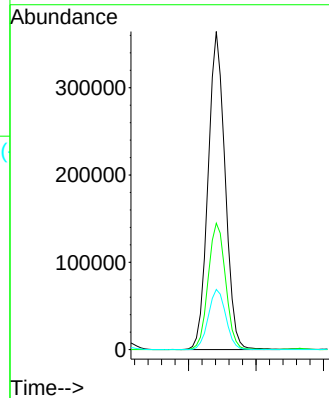
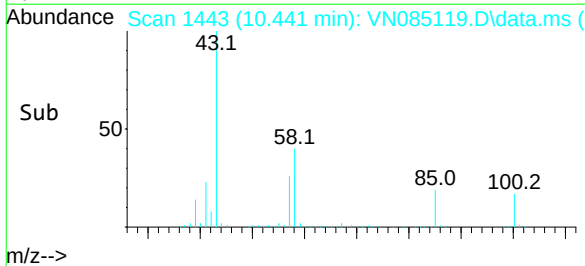
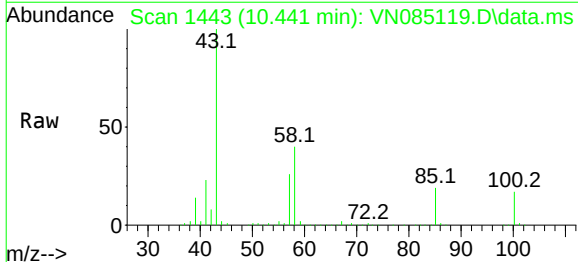
Manual Integrations
APPROVED

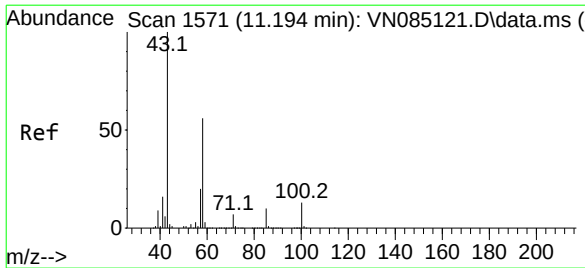
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#58
4-Methyl-2-Pentanone
Concen: 246.869 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 43 Resp: 638976
Ion Ratio Lower Upper
43 100
58 40.6 31.6 47.4
85 19.4 15.0 22.6





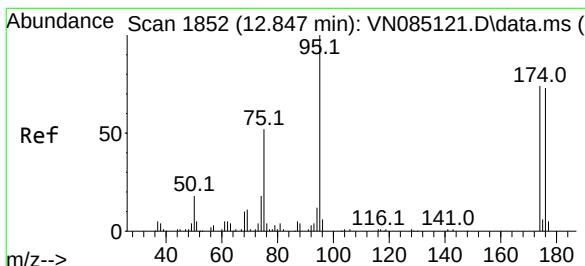
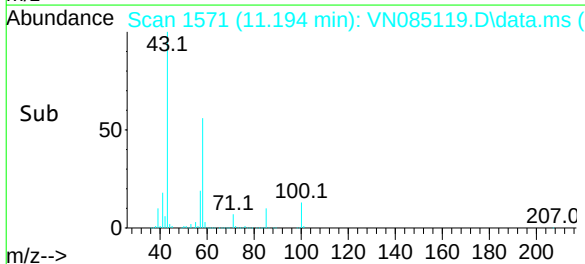
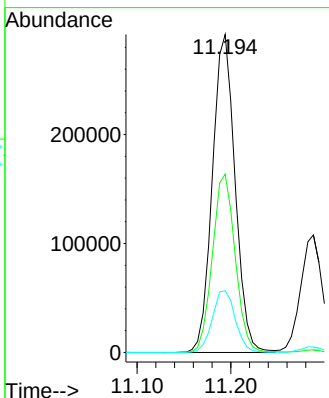
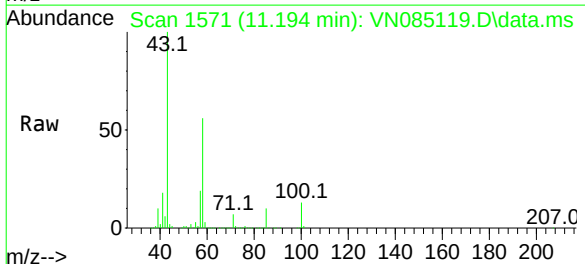
#59
2-Hexanone
Concen: 250.312 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 43	Resp: 490910
Ion Ratio	Lower Upper
43 100	
58 56.1	43.6 65.4
57 19.8	15.4 23.0

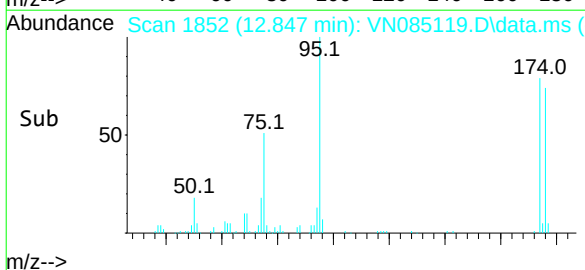
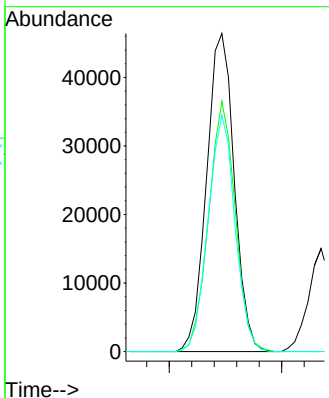
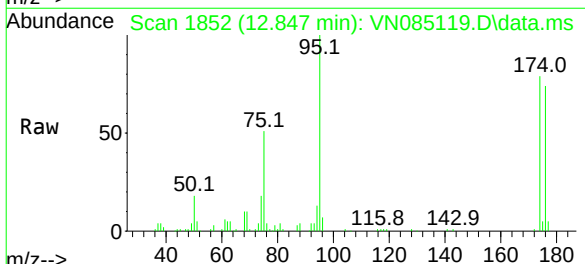
Manual Integrations
APPROVED

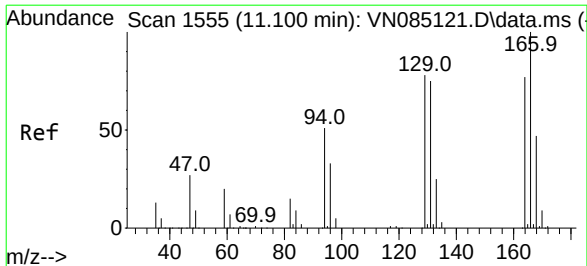
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#60
4-Bromofluorobenzene
Concen: 30.193 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 95	Resp: 79229
Ion Ratio	Lower Upper
95 100	
174 75.6	60.3 90.5
176 72.5	57.4 86.0





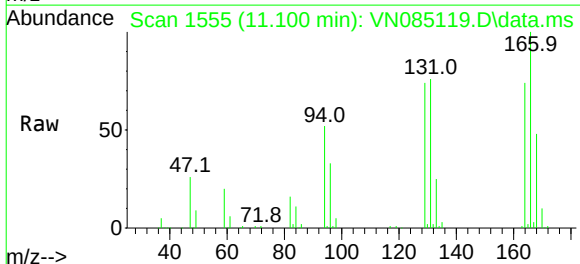
#61
Tetrachloroethene
Concen: 47.078 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

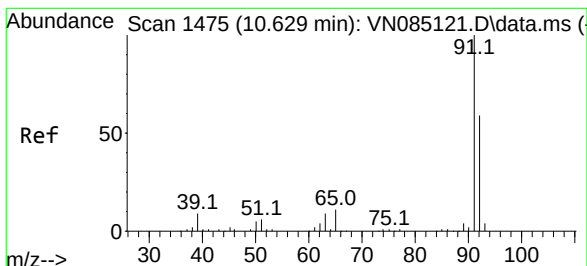
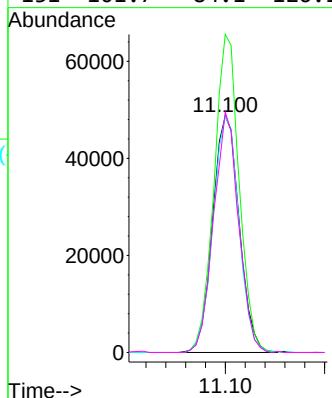
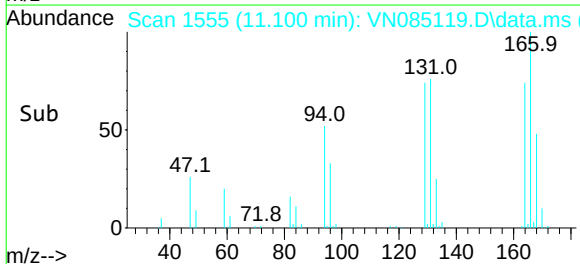
VSTDICC050



Tgt Ion:164 Resp: 90418
Ion Ratio Lower Upper
164 100
166 134.5 103.8 155.8
129 99.6 84.2 126.4
131 101.7 84.1 126.1

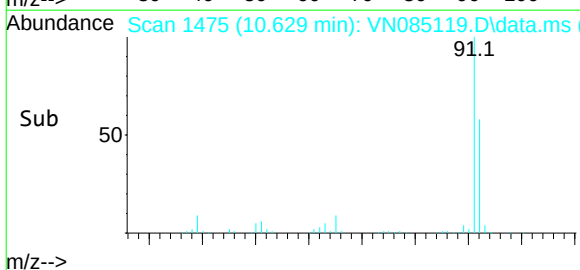
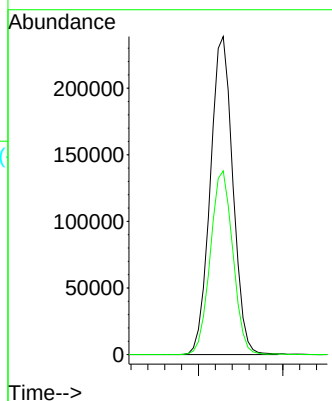
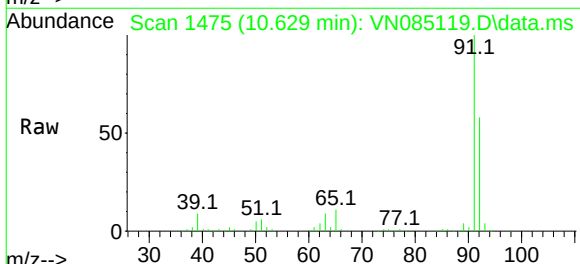
Manual Integrations
APPROVED

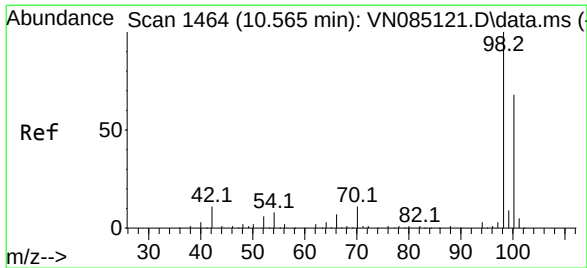
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#62
Toluene
Concen: 48.023 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 91 Resp: 444180
Ion Ratio Lower Upper
91 100
92 57.6 46.5 69.7





#63

Toluene-d8

Concen: 29.668 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 98 Resp: 220709

Ion Ratio Lower Upper

98 100

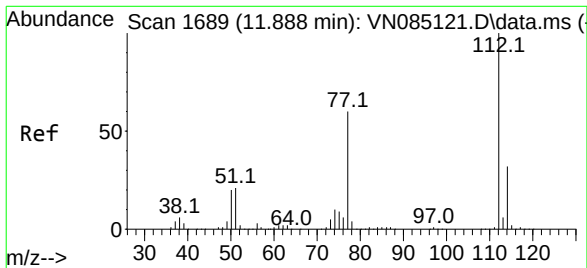
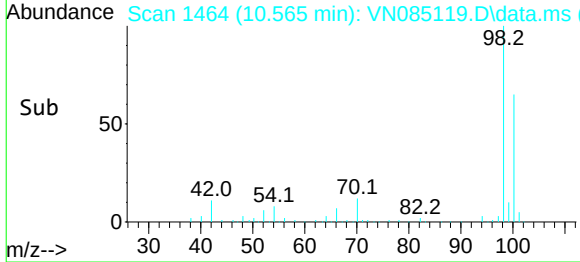
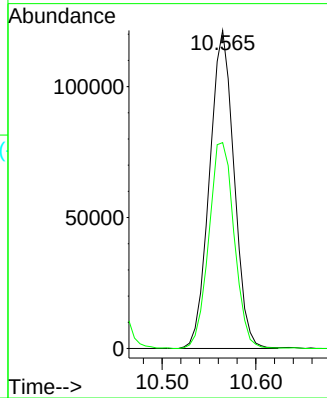
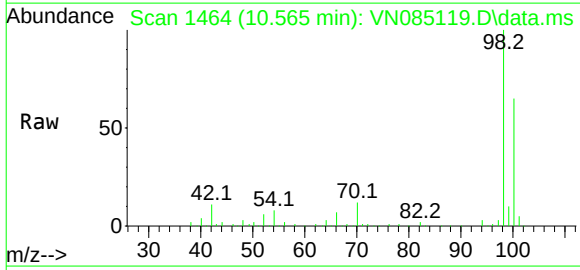
100 67.2 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#64

Chlorobenzene

Concen: 48.008 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085119.D

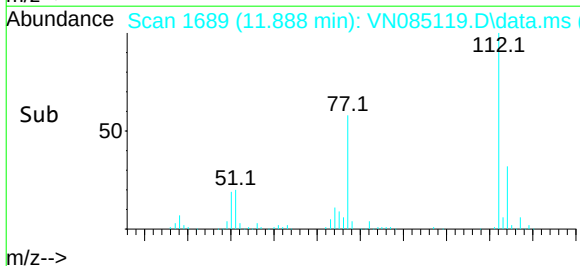
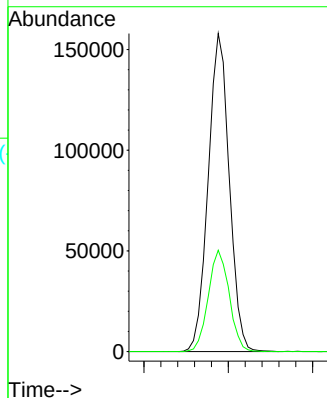
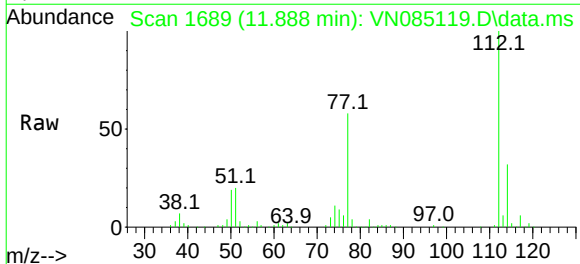
Acq: 06 Dec 2024 10:49

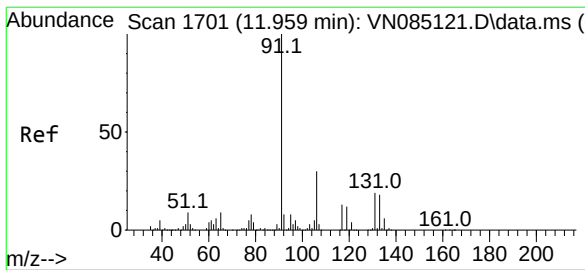
Tgt Ion:112 Resp: 274152

Ion Ratio Lower Upper

112 100

114 31.9 26.0 39.0





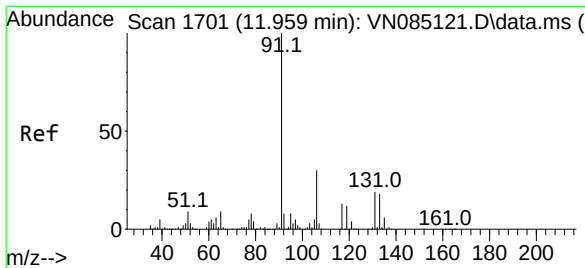
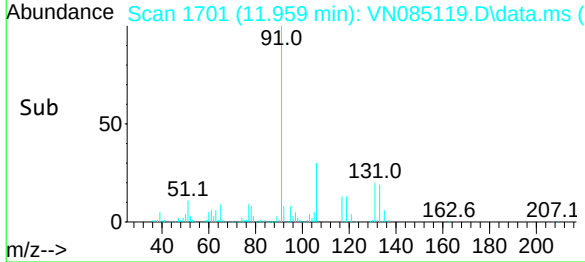
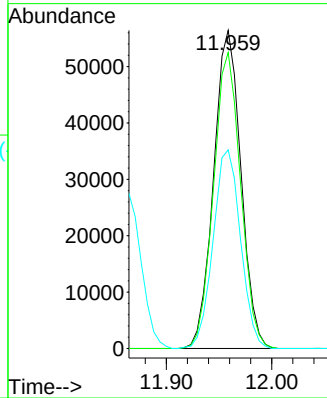
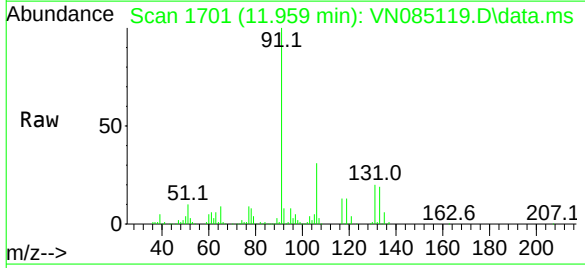
#65
1,1,1,2-Tetrachloroethane
Concen: 47.641 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.3	0.0	194.0
119	62.7	0.0	131.8

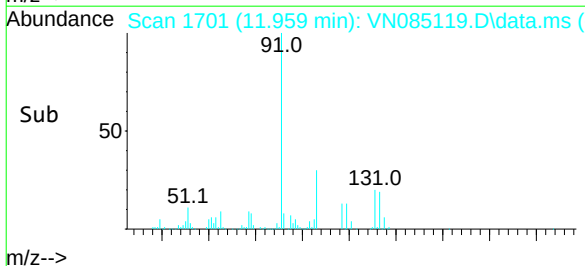
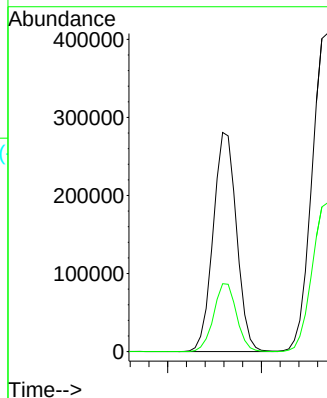
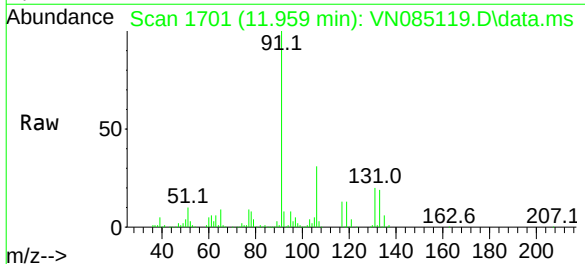
Manual Integrations
APPROVED

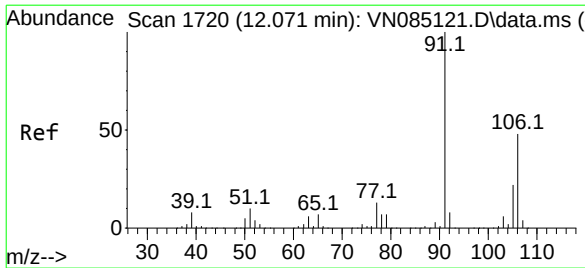
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#66
Ethyl Benzene
Concen: 49.682 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.0	23.1	34.7





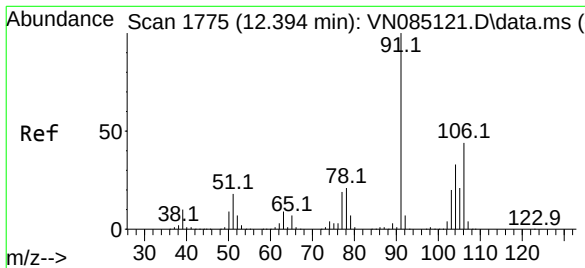
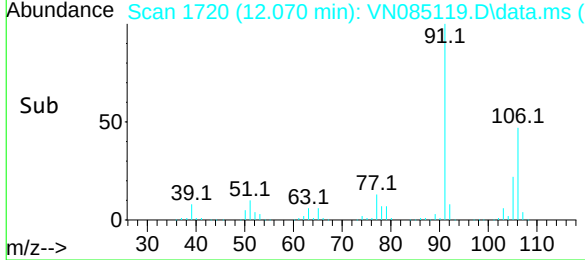
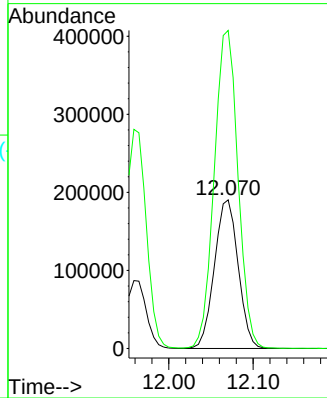
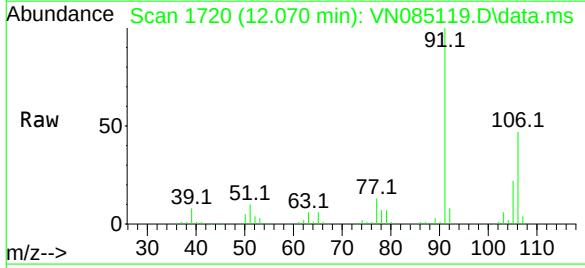
#67
m/p-Xylenes
Concen: 98.889 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:106 Resp: 373298
Ion Ratio Lower Upper
106 100
91 213.6 165.0 247.4

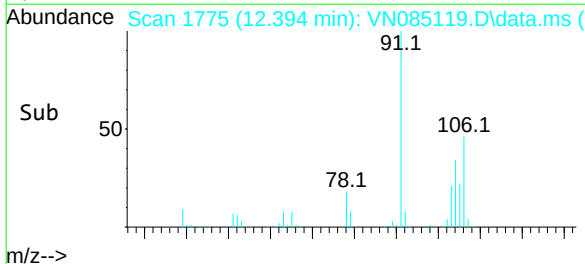
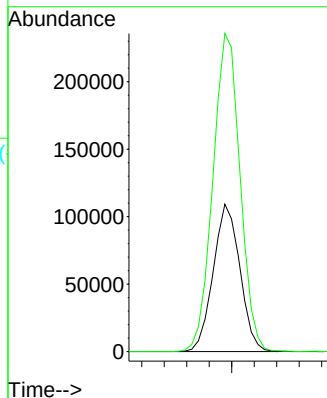
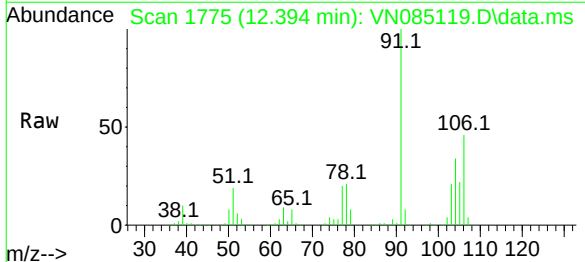
Manual Integrations
APPROVED

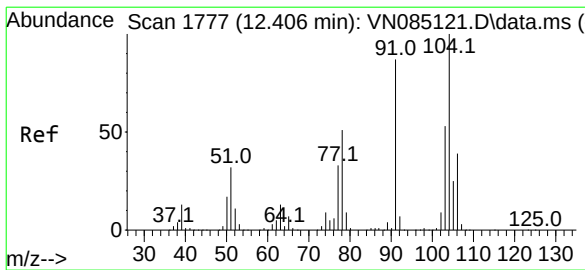
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#68
o-Xylene
Concen: 50.744 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:106 Resp: 179899
Ion Ratio Lower Upper
106 100
91 220.0 112.1 336.4





#69

Styrene

Concen: 51.151 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

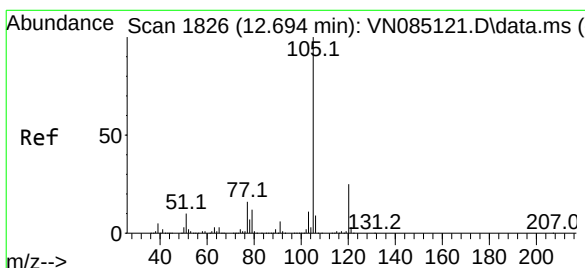
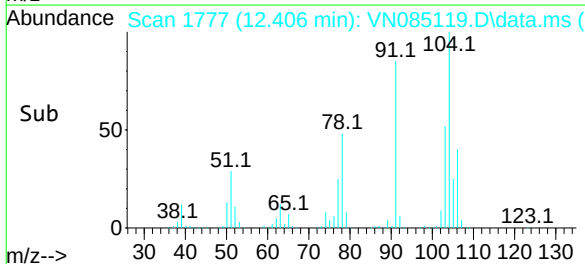
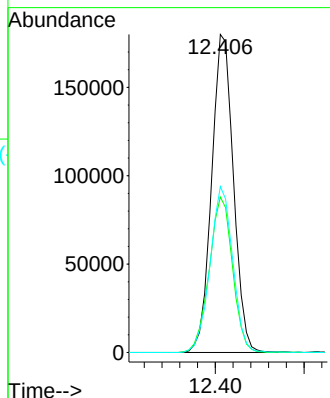
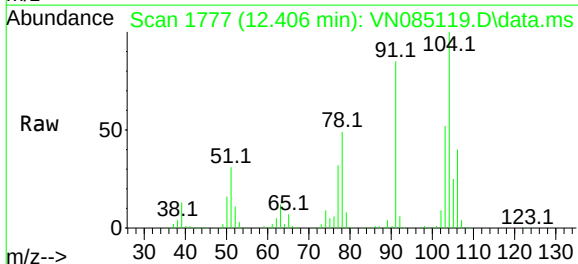
VSTDICC050

Tgt Ion:	104	Resp:	307715
Ion Ratio	Lower	Upper	
104	100		
78	52.0	42.3	63.5
103	54.0	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#70

Isopropylbenzene

Concen: 50.502 ug/l

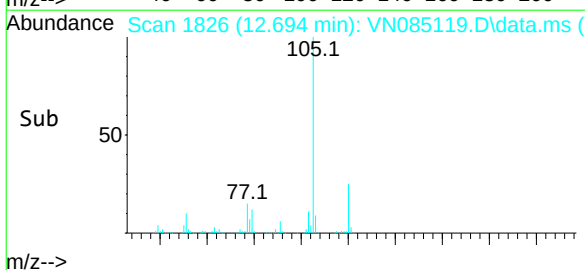
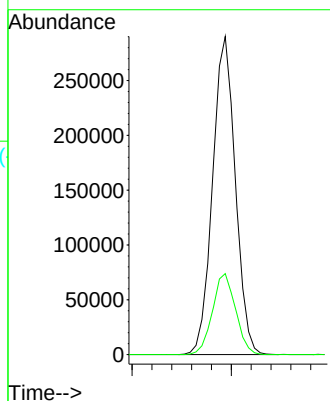
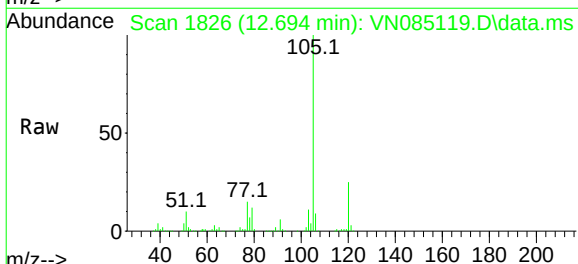
RT: 12.694 min Scan# 1826

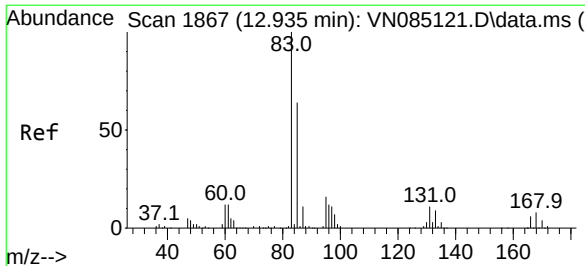
Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Tgt Ion:	105	Resp:	461786
Ion Ratio	Lower	Upper	
105	100		
120	25.8	18.3	33.9





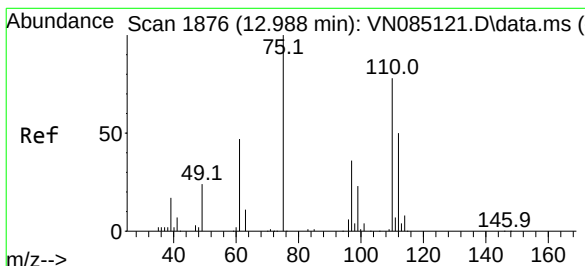
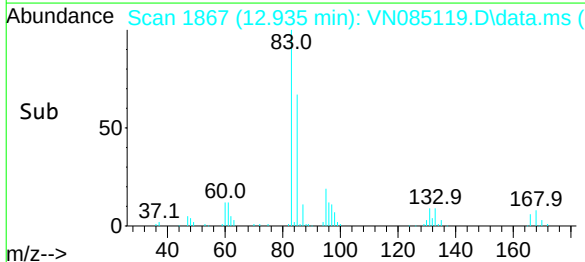
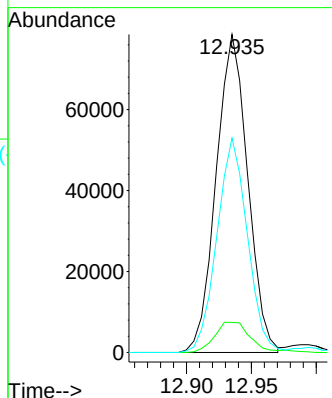
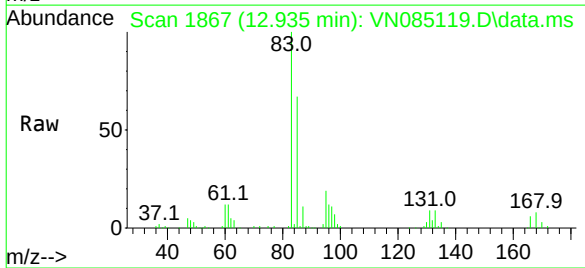
#71
1,1,2,2-Tetrachloroethane
Concen: 47.759 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:	83	Resp:	132922
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	65.1	31.1	93.5

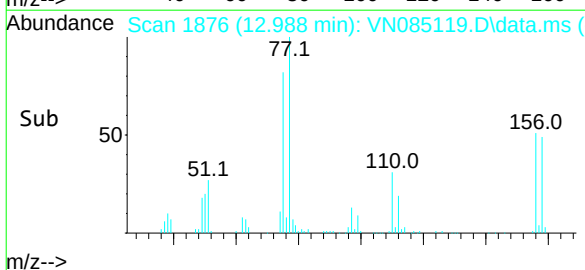
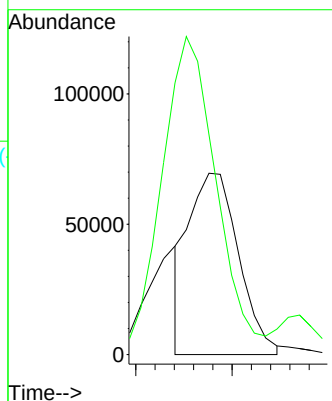
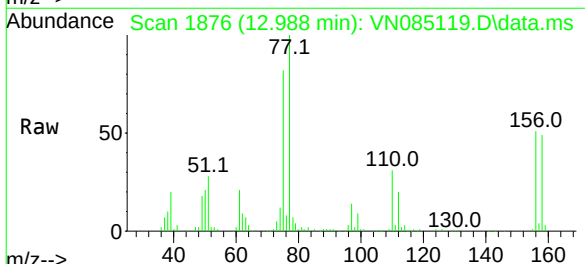
Manual Integrations
APPROVED

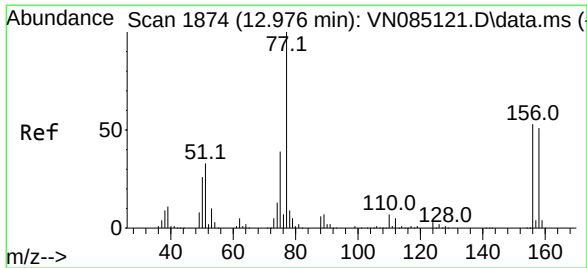
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#72
1,2,3-Trichloropropane
Concen: 45.469 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:	75	Resp:	125007
Ion	Ratio	Lower	Upper
75	100		
77	192.9	0.0	339.0





#73

Bromobenzene

Concen: 48.711 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

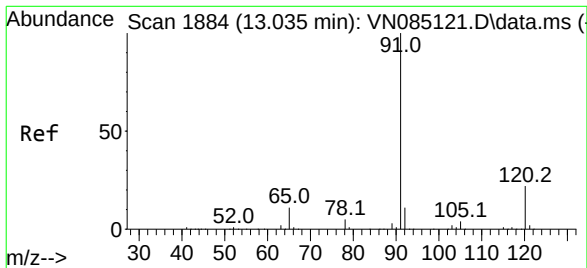
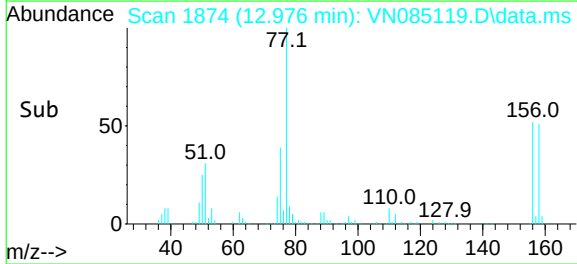
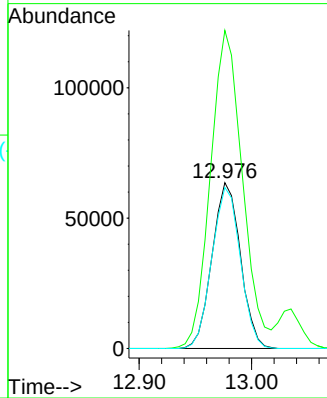
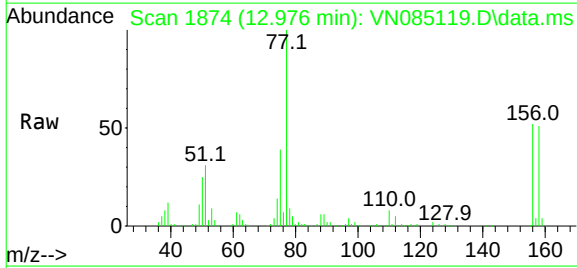
VSTDIC050

Tgt Ion:	156	Resp:	111567
Ion Ratio	Lower	Upper	
156	100		
77	216.1	0.0	430.4
158	97.2	0.0	195.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#74

n-propylbenzene

Concen: 50.065 ug/l

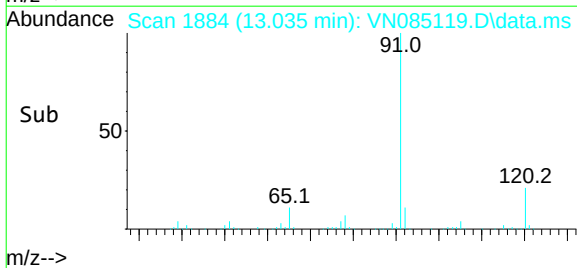
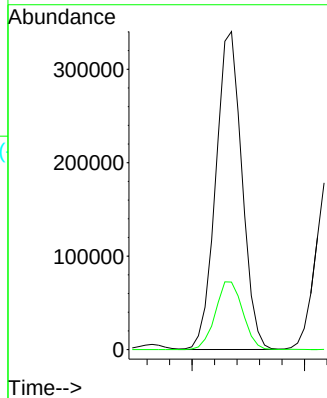
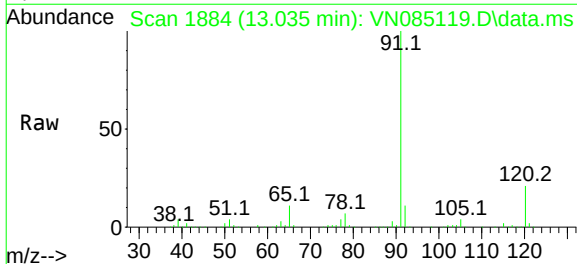
RT: 13.035 min Scan# 1884

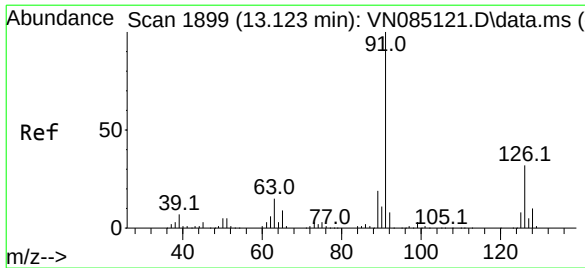
Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Tgt Ion:	91	Resp:	550361
Ion Ratio	Lower	Upper	
91	100		
120	22.3	0.0	44.0





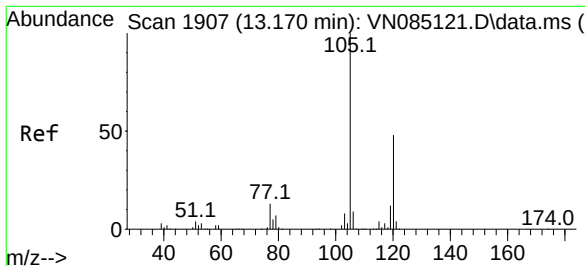
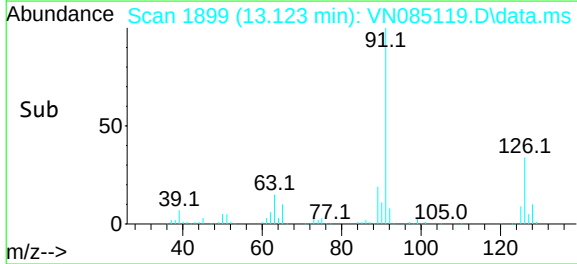
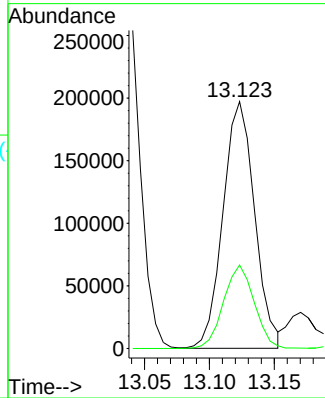
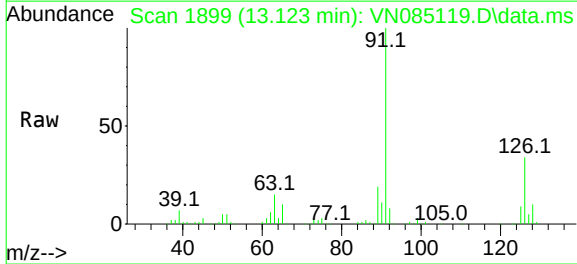
#75
2-Chlorotoluene
Concen: 49.227 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 91 Resp: 334596
Ion Ratio Lower Upper
91 100
126 32.6 0.0 64.2

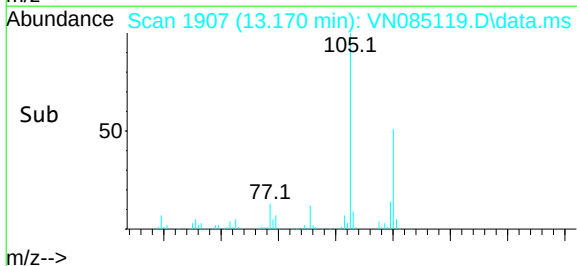
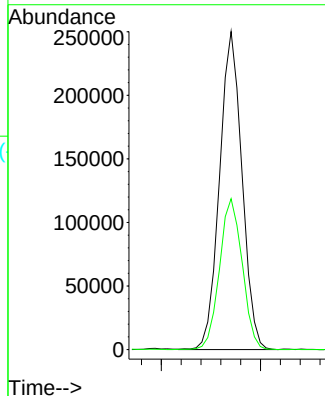
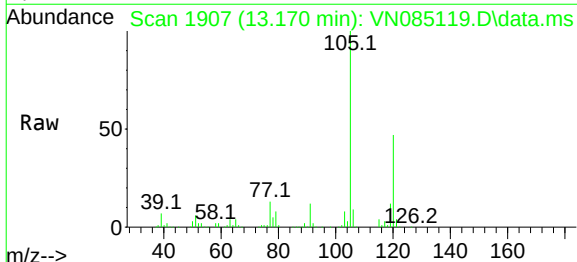
Manual Integrations
APPROVED

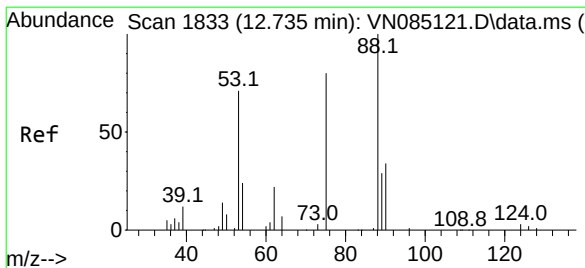
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#76
1,3,5-Trimethylbenzene
Concen: 50.202 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

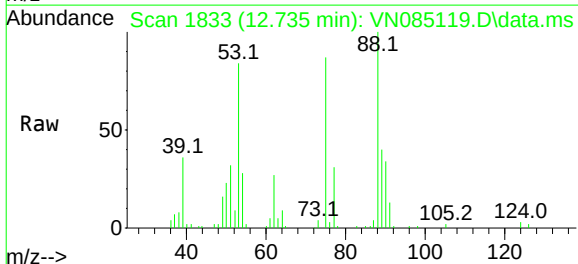
Tgt Ion:105 Resp: 393277
Ion Ratio Lower Upper
105 100
120 47.9 0.0 94.4





#77
t-1,4-Dichloro-2-butene
Concen: 48.553 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

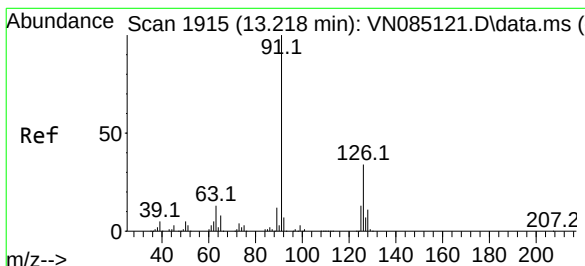
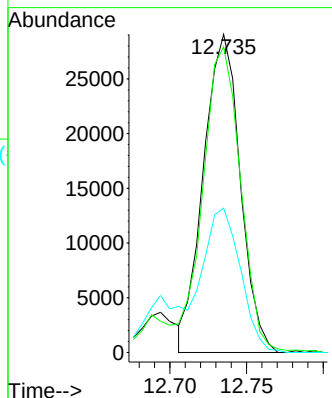
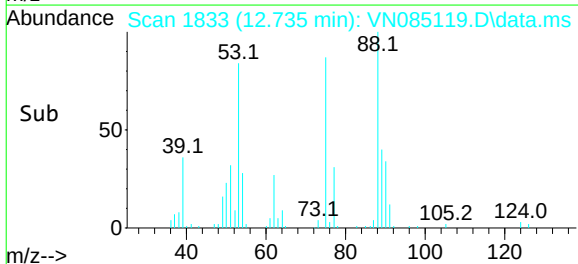
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 75 Resp: 48505
Ion Ratio Lower Upper
75 100
53 95.0 49.1 147.3
89 44.7 22.9 68.5

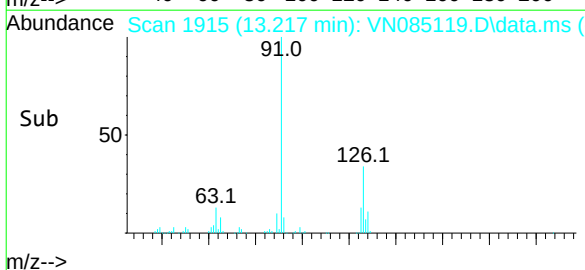
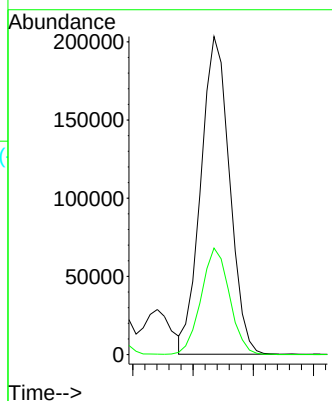
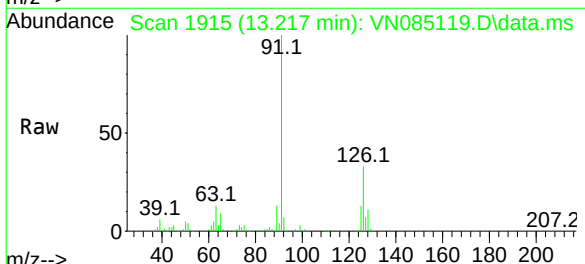
Manual Integrations
APPROVED

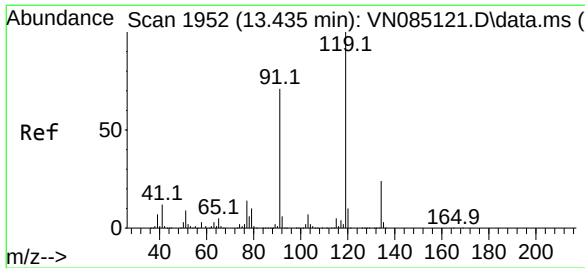
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#78
4-Chlorotoluene
Concen: 48.823 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 91 Resp: 336818
Ion Ratio Lower Upper
91 100
126 33.2 0.0 64.4





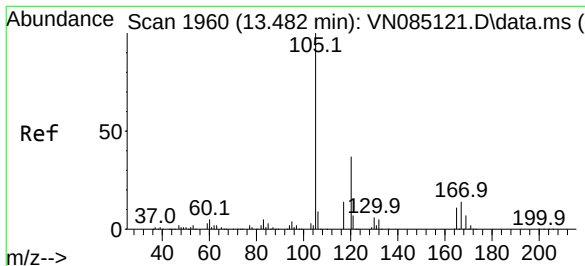
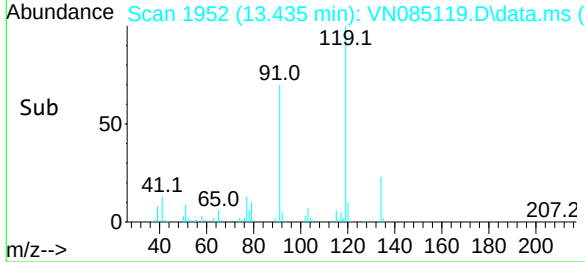
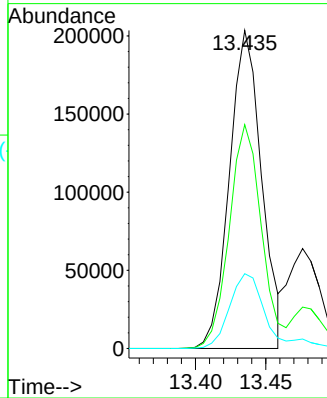
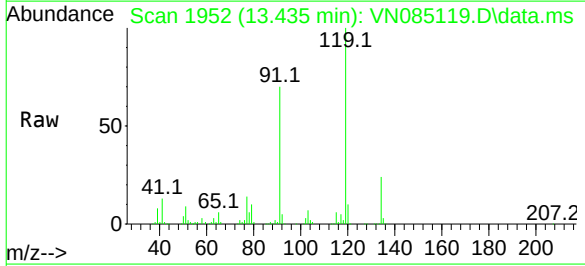
#79
tert-butylbenzene
Concen: 50.365 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion	Ratio	Lower	Upper
119	100		
91	70.8	0.0	139.2
134	24.6	0.0	48.0

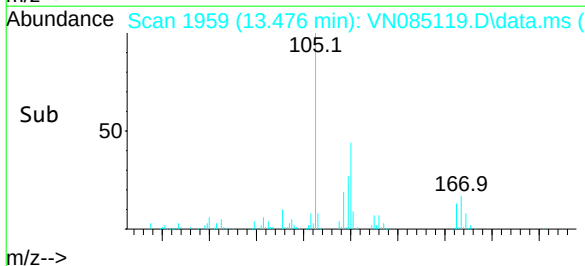
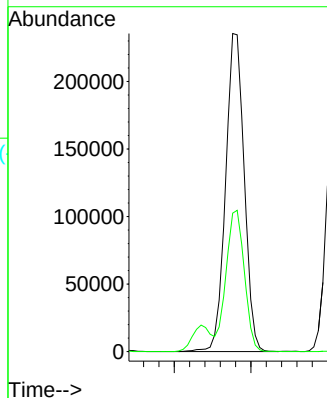
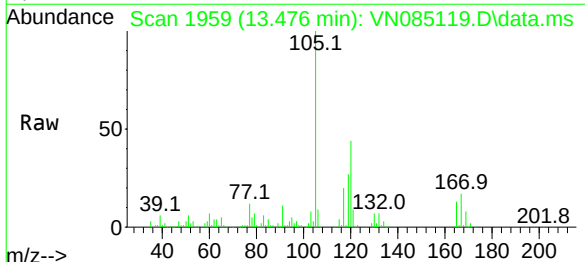
Manual Integrations
APPROVED

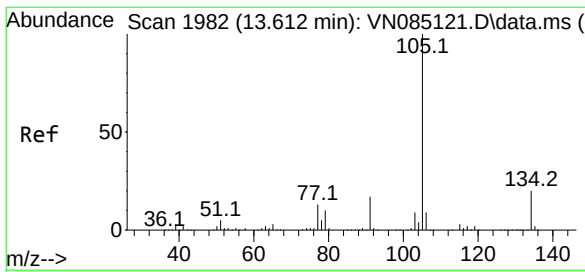
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#80
1,2,4-Trimethylbenzene
Concen: 51.207 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.6	0.0	87.4





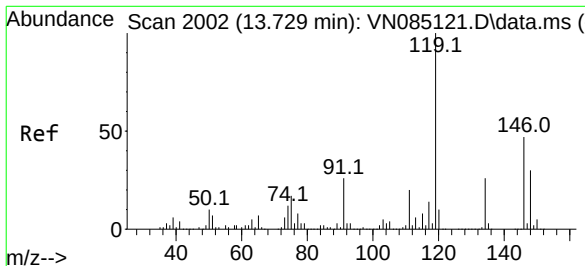
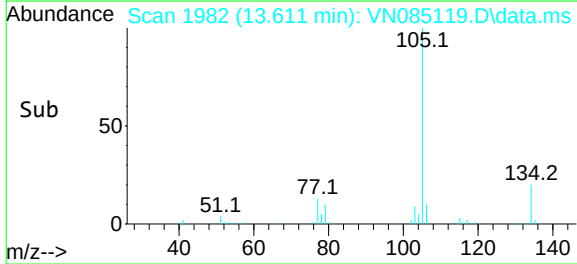
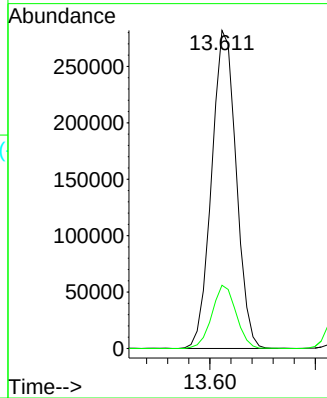
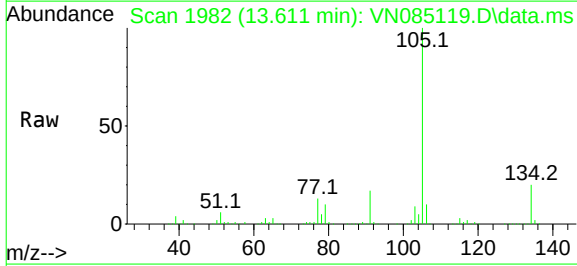
#81
sec-Butylbenzene
Concen: 49.942 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:105 Resp: 456540
Ion Ratio Lower Upper
105 100
134 19.6 0.0 38.0

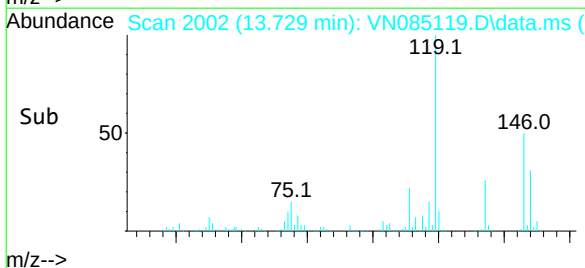
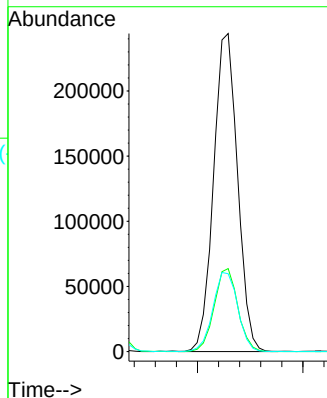
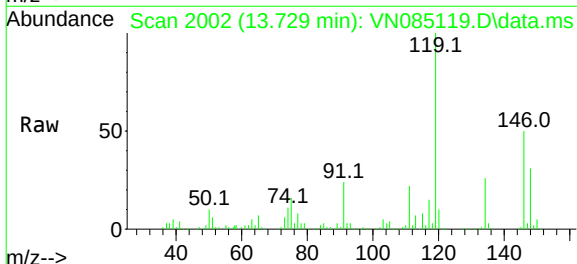
Manual Integrations
APPROVED

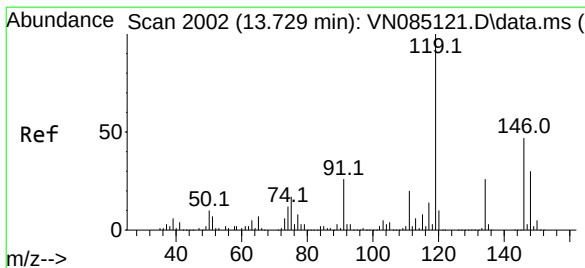
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#82
p-Isopropyltoluene
Concen: 50.937 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

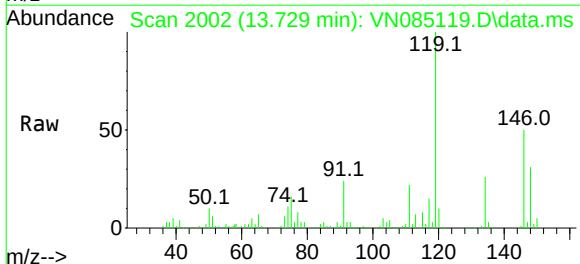
Tgt Ion:119 Resp: 386040
Ion Ratio Lower Upper
119 100
134 25.7 0.0 51.6
91 25.7 0.0 50.4





#83
1,3-Dichlorobenzene
Concen: 48.588 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

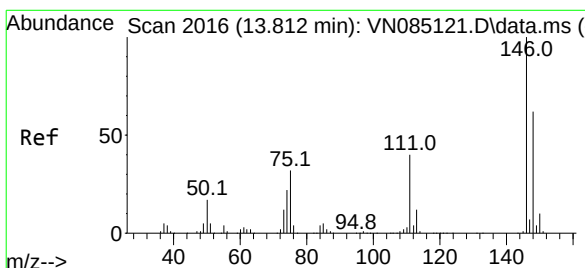
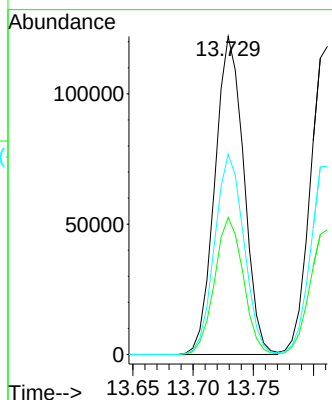
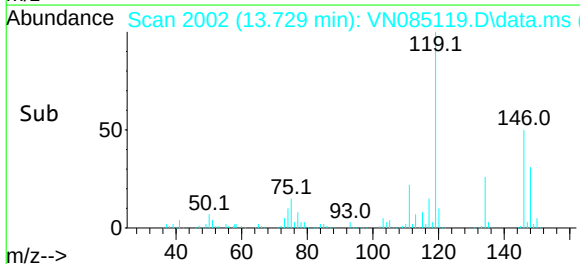
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:146 Resp: 204168
Ion Ratio Lower Upper
146 100
111 42.7 21.1 63.3
148 63.8 31.8 95.3

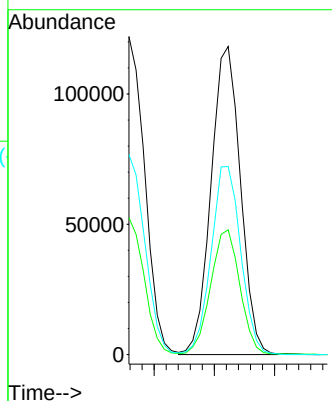
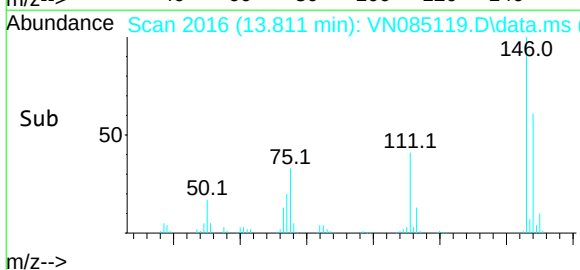
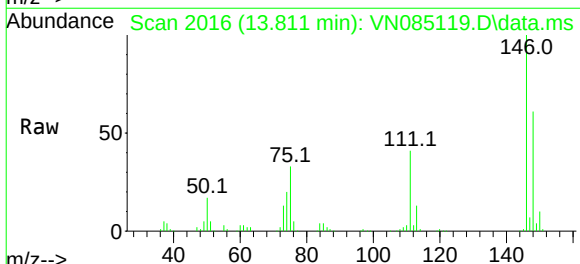
Manual Integrations
APPROVED

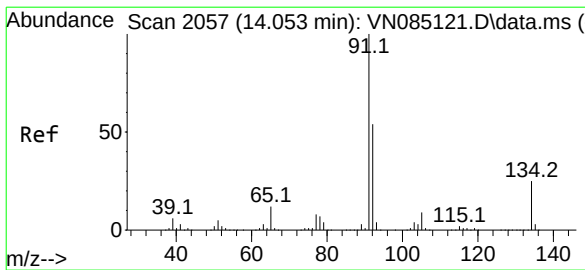
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#84
1,4-Dichlorobenzene
Concen: 48.993 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:146 Resp: 200637
Ion Ratio Lower Upper
146 100
111 40.1 20.1 60.3
148 61.7 31.6 94.7





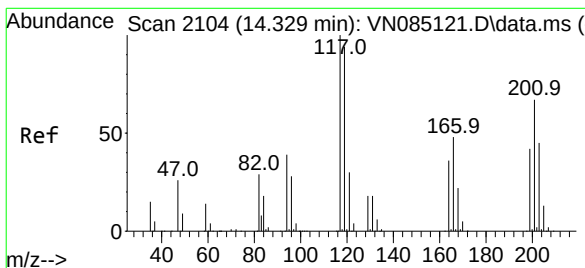
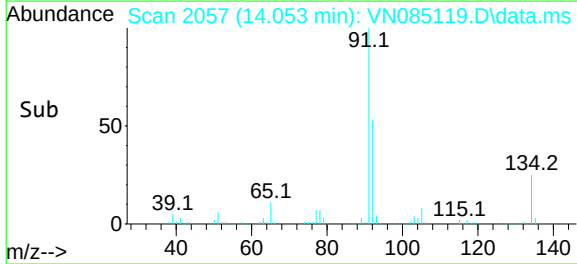
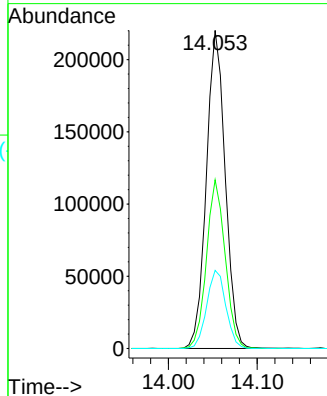
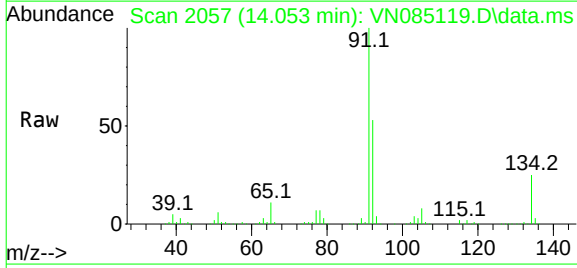
#85
n-Butylbenzene
Concen: 51.146 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:	91	Resp:	325144
Ion	Ratio	Lower	Upper
91	100		
92	52.5	0.0	104.0
134	24.9	0.0	49.2

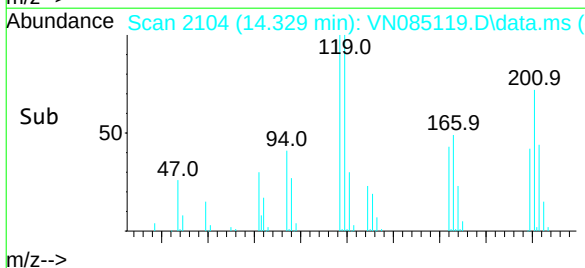
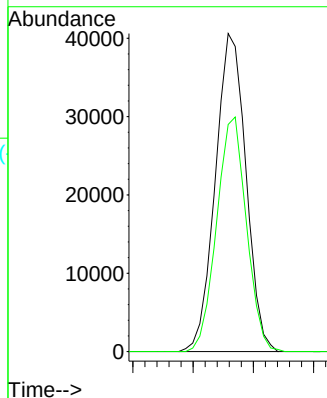
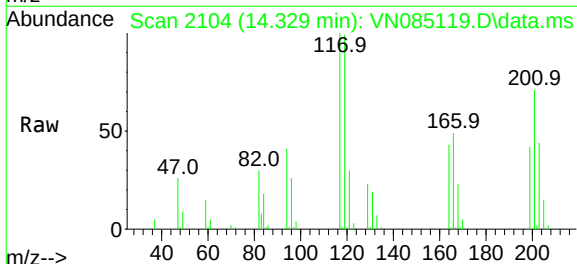
Manual Integrations
APPROVED

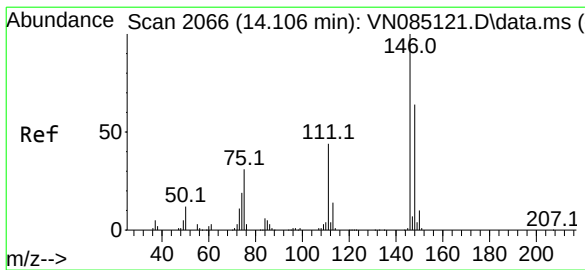
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#86
Hexachloroethane
Concen: 47.548 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:	117	Resp:	71737
Ion	Ratio	Lower	Upper
117	100		
201	71.7	34.1	102.3





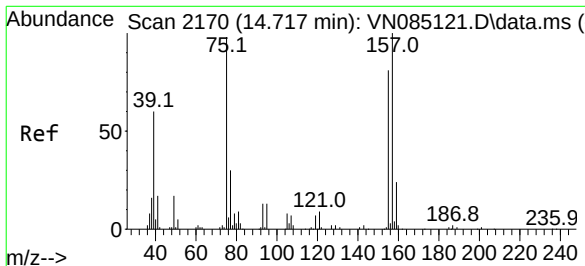
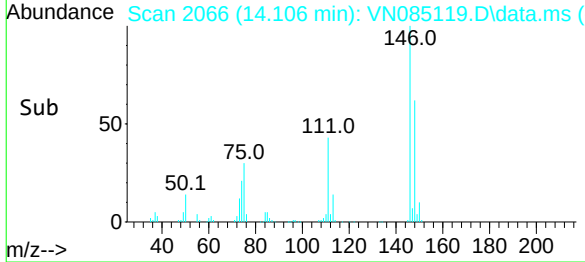
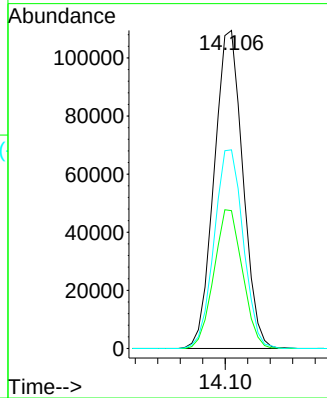
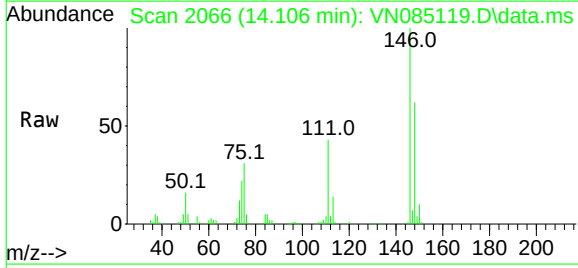
#87
1,2-Dichlorobenzene
Concen: 48.889 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:	146	Resp:	193910
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.9	65.7
148	63.4	32.4	97.0

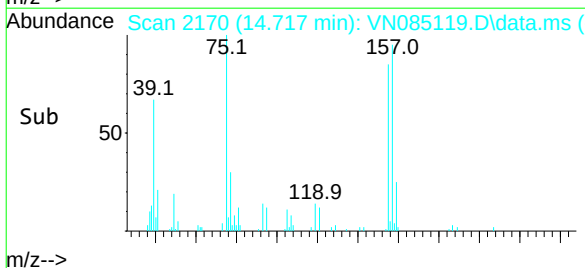
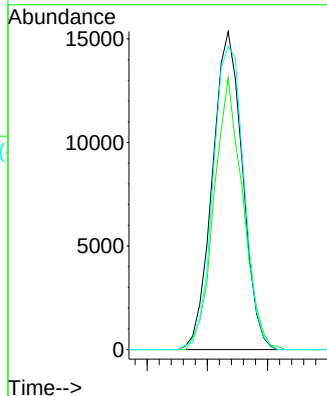
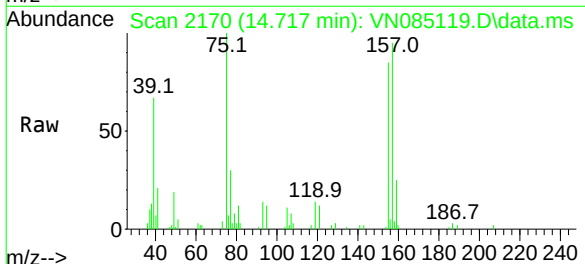
Manual Integrations
APPROVED

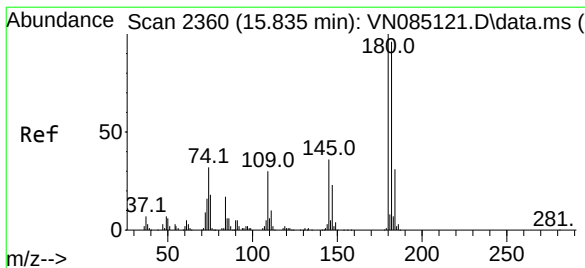
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 47.975 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:	75	Resp:	26674
Ion	Ratio	Lower	Upper
75	100		
155	81.6	62.1	93.1
157	97.8	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 49.499 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

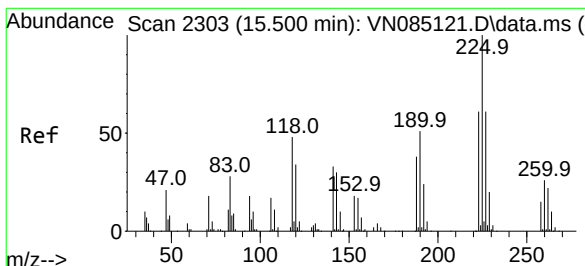
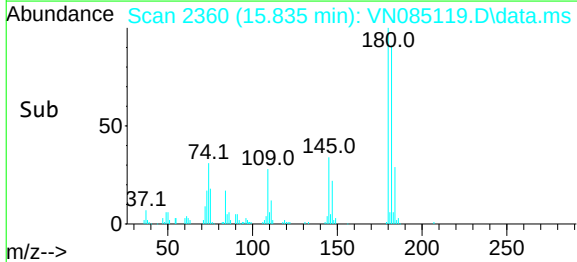
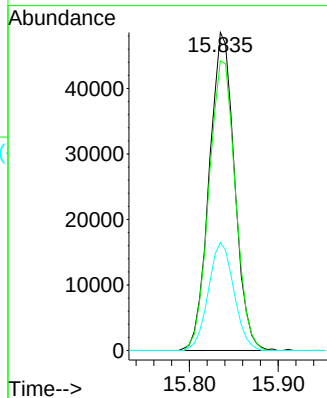
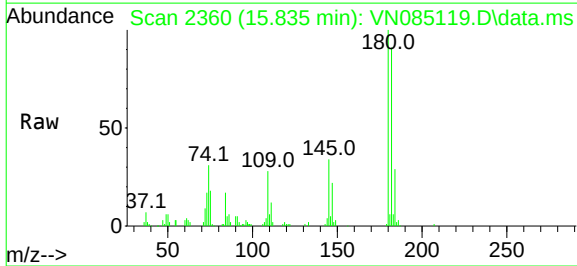
VSTDIC050

Tgt Ion:	180	Resp:	96150
Ion Ratio	Lower	Upper	
180	100		
182	94.7	74.0	111.0
145	34.3	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#90

Hexachlorobutadiene

Concen: 45.354 ug/l

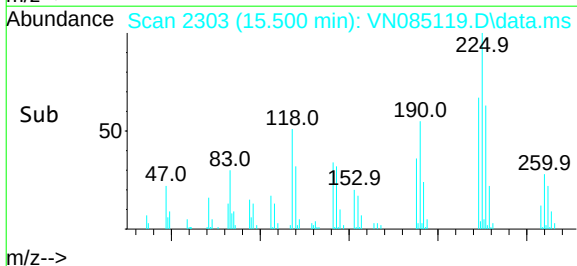
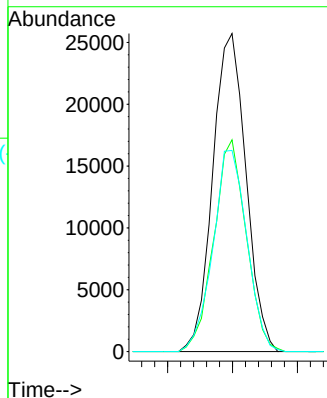
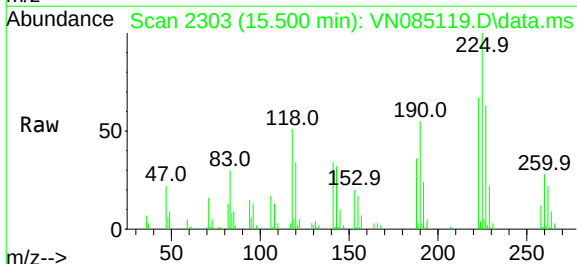
RT: 15.500 min Scan# 2303

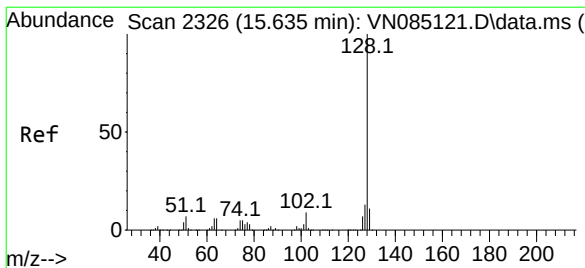
Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Tgt Ion:	225	Resp:	45780
Ion Ratio	Lower	Upper	
225	100		
223	64.9	0.0	121.8
227	64.6	0.0	126.8





#91

Naphthalene

Concen: 51.498 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

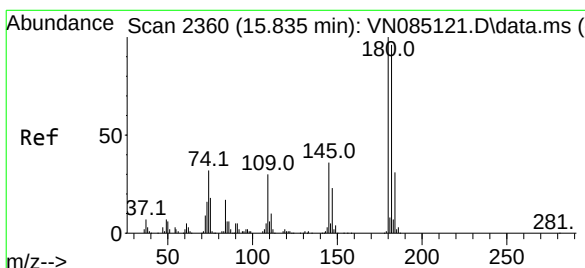
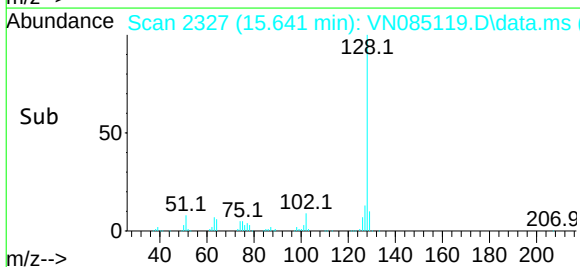
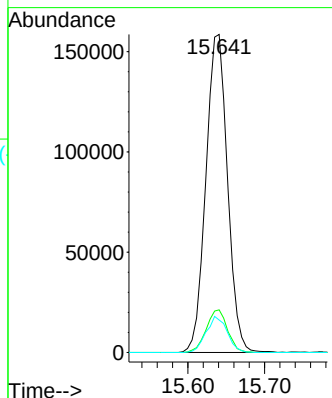
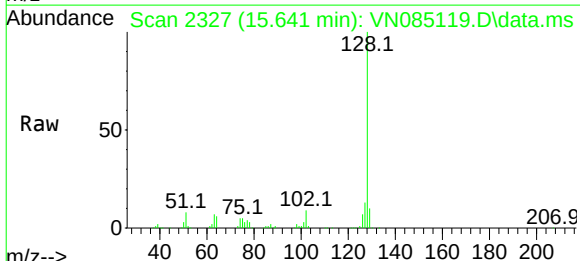
VSTDICC050

Tgt Ion:	128	Resp:	310785
Ion Ratio	Lower	Upper	
128	100		
127	13.2	11.0	16.4
129	11.0	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 49.499 ug/l

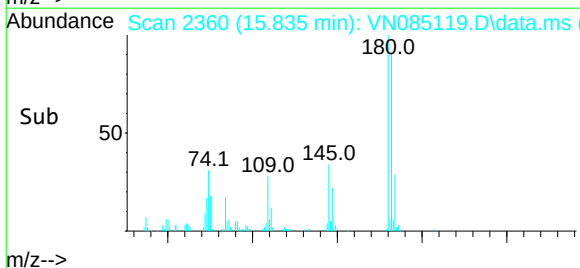
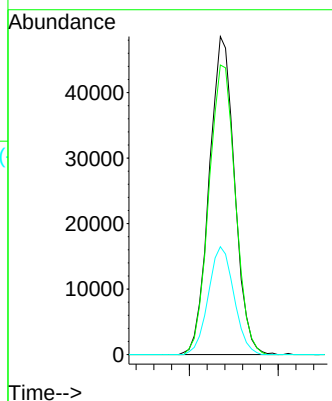
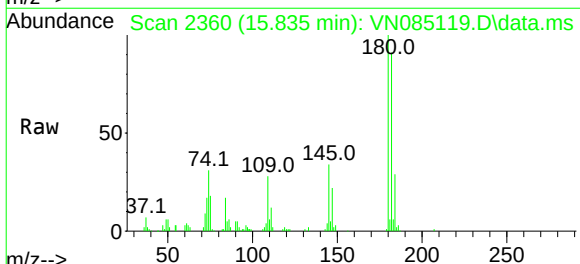
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Tgt Ion:	180	Resp:	96150
Ion Ratio	Lower	Upper	
180	100		
182	94.7	0.0	185.0
145	34.3	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085120.D
 Acq On : 06 Dec 2024 11:13
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 06 22:30:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	30288	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	165873	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	153060	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71793	29.873	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.567%		
60) 4-Bromofluorobenzene	12.847	95	77922	30.768	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.567%		
63) Toluene-d8	10.565	98	210008	29.250	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.500%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	259006	106.887	ug/l	99
3) Chloromethane	2.359	50	222342	103.665	ug/l	98
4) Vinyl Chloride	2.512	62	227959	103.912	ug/l	99
5) Bromomethane	2.942	94	137690	98.857	ug/l	99
6) Chloroethane	3.112	64	139552	103.541	ug/l	100
7) Trichlorofluoromethane	3.494	101	376125	104.742	ug/l	100
8) Diethyl Ether	3.959	74	126597	111.303	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	208174	103.665	ug/l	99
10) 1,1-Dichloroethene	4.336	96	199737	108.286	ug/l	98
11) Methyl Iodide	4.589	142	285314	111.529	ug/l	96
12) Methyl Acetate	5.018	43	232698	106.935	ug/l	96
13) Acrolein	4.177	56	170574	539.405	ug/l	96
14) Acrylonitrile	5.712	53	493102	545.734	ug/l	97
15) Acetone	4.418	58	136513	557.523	ug/l	99
16) Carbon Disulfide	4.712	76	576373	104.540	ug/l	100
17) Allyl chloride	5.024	41	293051	111.032	ug/l	93
18) Methylene Chloride	5.271	84	214729	102.597	ug/l	99
19) trans-1,2-Dichloroethene	5.788	96	203123	105.945	ug/l	94
20) Diisopropyl ether	6.665	45	621282	107.259	ug/l	99
21) 1,1-Dichloroethane	6.565	63	374090	104.639	ug/l	99
22) cis-1,2-Dichloroethene	7.482	96	234199	106.277	ug/l	99
23) tert-Butyl Alcohol	5.518	59	184150	568.118	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	637140	110.650	ug/l #	77
25) Chloroform	7.965	83	384926	102.776	ug/l	94
26) Cyclohexane	8.253	56	327008	111.090	ug/l #	95
29) 1,1-Dichloropropene	8.371	75	279872	104.562	ug/l	99
30) 2-Butanone	7.477	43	648934	528.323	ug/l	99
31) 2,2-Dichloropropane	7.488	77	351838	102.508	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	363069	100.216	ug/l	98
33) Carbon Tetrachloride	8.359	117	327001	100.027	ug/l	94
34) Benzene	8.606	78	853279	101.479	ug/l	99
35) Methacrylonitrile	7.777	41	142639	103.194	ug/l	94
36) 1,2-Dichloroethane	8.665	62	286487	100.087	ug/l	100
37) Trichloroethene	9.347	130	206395	103.077	ug/l	97
38) Methylcyclohexane	9.594	83	320395	110.090	ug/l	94
39) 1,2-Dichloropropane	9.618	63	202160	99.263	ug/l	98
40) Dibromomethane	9.706	93	145378	99.515	ug/l	99
41) Bromodichloromethane	9.882	83	312321	100.007	ug/l	95
42) Vinyl Acetate	6.600	43	2379940	553.721	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085120.D
 Acq On : 06 Dec 2024 11:13
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

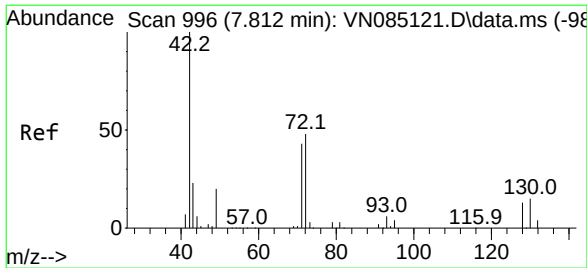
Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 22:30:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	258485	105.766	ug/l	95
44) Isopropyl Acetate	8.682	43	438465	103.239	ug/l	98
45) 1,4-Dioxane	9.694	88	77646	2192.363	ug/l	97
46) Methyl methacrylate	9.676	41	210976	108.543	ug/l	97
47) n-amyl Acetate	12.494	43	398085	111.404	ug/l	93
48) t-1,3-Dichloropropene	10.835	75	327429	106.805	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	347791	104.212	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	195188	99.153	ug/l	95
51) Ethyl methacrylate	10.870	69	335501	112.054	ug/l	96
52) 1,3-Dichloropropane	11.159	76	335834	101.938	ug/l	100
53) Dibromochloromethane	11.359	129	242265	100.988	ug/l	96
54) 1,2-Dibromoethane	11.465	107	205342	103.531	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	785193	564.533	ug/l	100
56) Bromoform	12.576	173	166661	103.616	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	1337734	535.524	ug/l	98
59) 2-Hexanone	11.194	43	1026218	542.184	ug/l	97
61) Tetrachloroethene	11.100	164	182933	98.693	ug/l	97
62) Toluene	10.623	91	917622	102.798	ug/l	100
64) Chlorobenzene	11.888	112	571760	103.744	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	210736	102.429	ug/l	97
66) Ethyl Benzene	11.959	91	1036629	109.440	ug/l	98
67) m/p-Xylenes	12.070	106	791201	217.173	ug/l	98
68) o-Xylene	12.394	106	374478	109.449	ug/l	100
69) Styrene	12.406	104	648187	111.644	ug/l	100
70) Isopropylbenzene	12.694	105	985915	111.721	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	268272	99.877	ug/l	95
72) 1,2,3-Trichloropropane	12.988	75	260354m	98.123	ug/l	
73) Bromobenzene	12.976	156	235738	106.648	ug/l	100
74) n-propylbenzene	13.035	91	1166509	109.952	ug/l	99
75) 2-Chlorotoluene	13.123	91	703050	107.179	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	831794	110.018	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	107962	111.976	ug/l	98
78) 4-Chlorotoluene	13.217	91	713716	107.197	ug/l	99
79) tert-butylbenzene	13.435	119	697873	112.381	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	838873	112.327	ug/l	99
81) sec-Butylbenzene	13.611	105	983338	111.460	ug/l	98
82) p-Isopropyltoluene	13.723	119	829472	113.406	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	429389	105.881	ug/l	100
84) 1,4-Dichlorobenzene	13.811	146	423137	107.060	ug/l	99
85) n-Butylbenzene	14.053	91	713519	116.298	ug/l	98
86) Hexachloroethane	14.329	117	154986	106.440	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	401301	104.836	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	56942	106.118	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	214927	114.647	ug/l	99
90) Hexachlorobutadiene	15.500	225	100252	102.912	ug/l	99
91) Naphthalene	15.635	128	719387	123.516	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	214927	114.647	ug/l	99

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



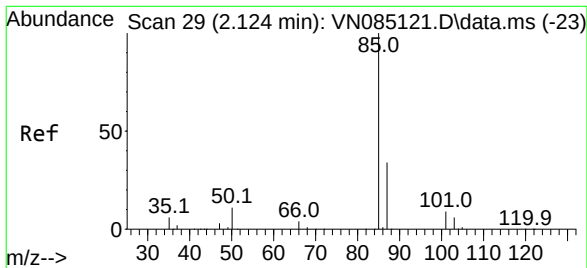
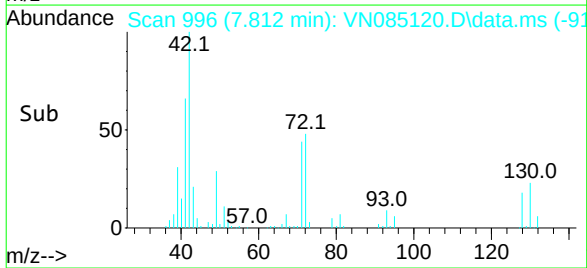
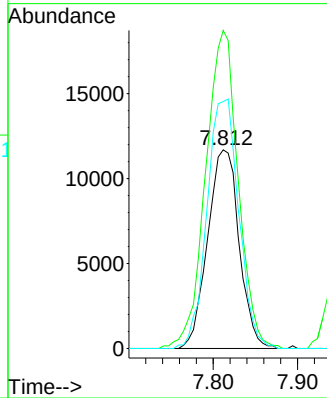
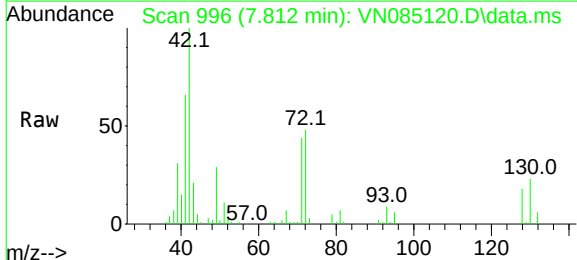
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 30288
Ion Ratio Lower Upper
128 100
49 165.3 0.0 394.5
130 127.2 0.0 316.5

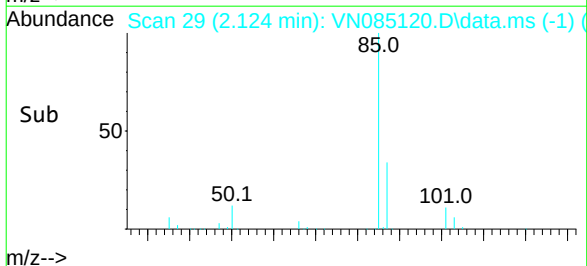
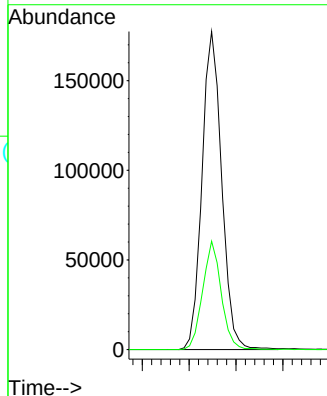
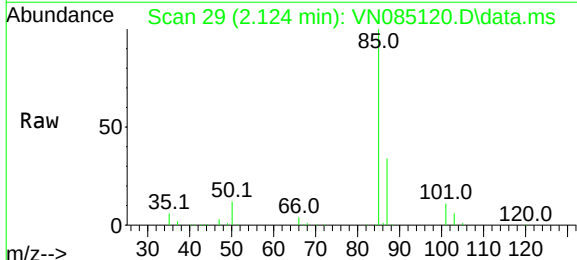
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

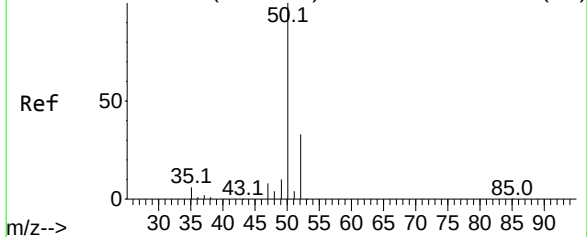


#2
Dichlorodifluoromethane
Concen: 106.887 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 85 Resp: 259006
Ion Ratio Lower Upper
85 100
87 34.1 16.8 50.3



Abundance Scan 69 (2.359 min): VN085121.D\data.ms (-63)



#3

Chloromethane

Concen: 103.665 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

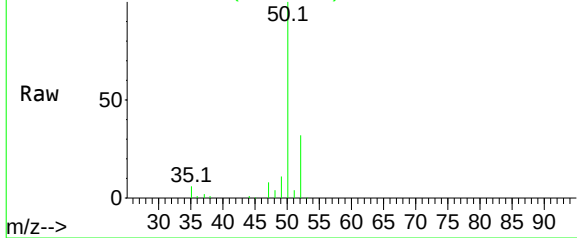
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Abundance Scan 69 (2.359 min): VN085120.D\data.ms



Tgt Ion: 50 Resp: 222342

Ion Ratio Lower Upper

50 100

52 32.2 25.0 37.4

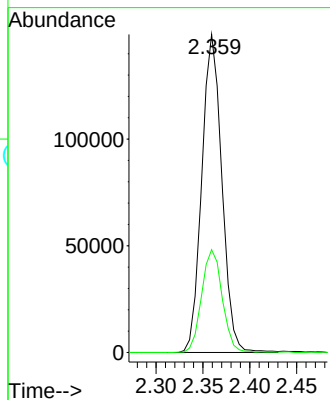
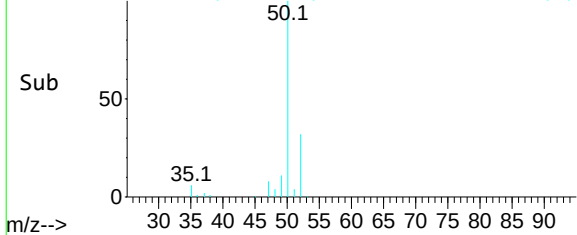
Manual Integrations

APPROVED

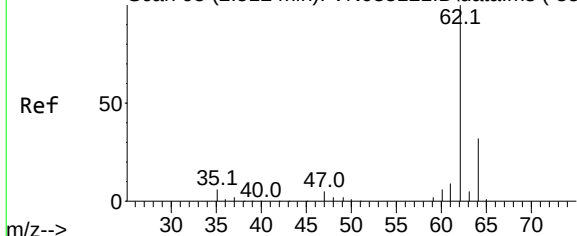
Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024

Abundance Scan 69 (2.359 min): VN085120.D\data.ms (-1)



Abundance Scan 95 (2.512 min): VN085121.D\data.ms (-88)



#4

Vinyl Chloride

Concen: 103.912 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

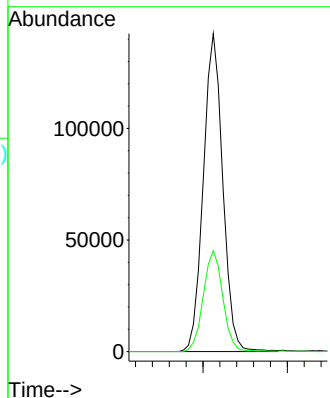
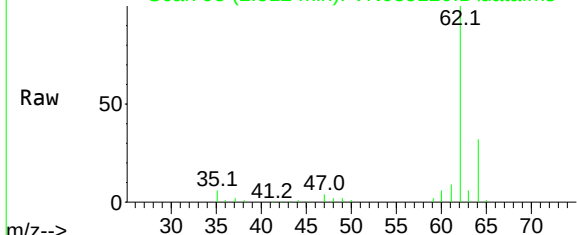
Tgt Ion: 62 Resp: 227959

Ion Ratio Lower Upper

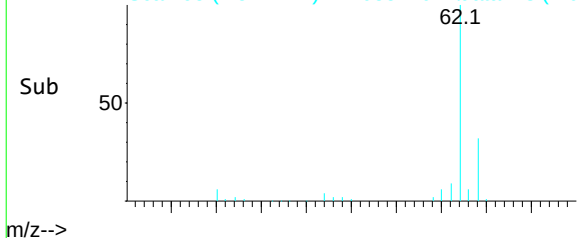
62 100

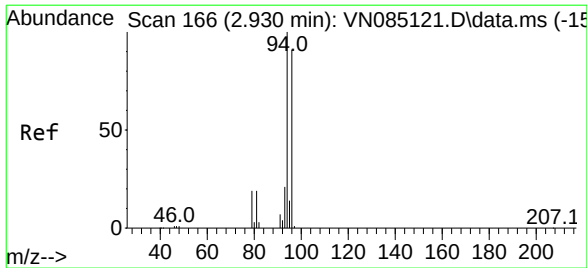
64 31.7 24.9 37.3

Abundance Scan 95 (2.512 min): VN085120.D\data.ms



Abundance Scan 95 (2.512 min): VN085120.D\data.ms (-10)





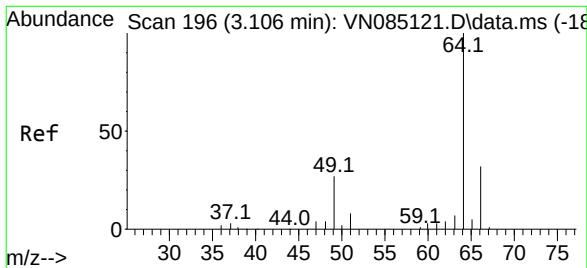
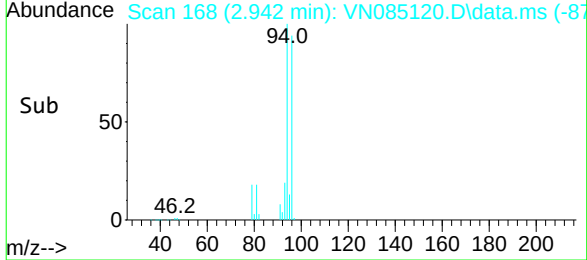
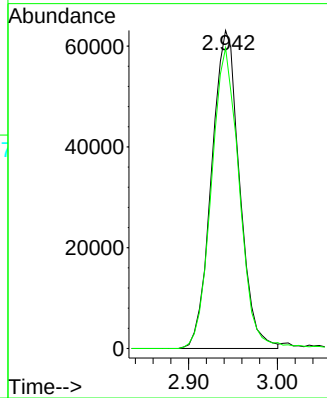
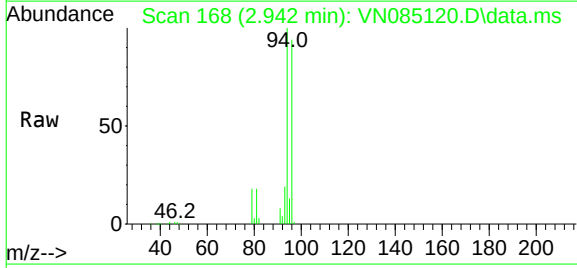
#5
Bromomethane
Concen: 98.857 ug/l
RT: 2.942 min Scan# 16
Delta R.T. -0.024 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 94 Resp: 137696
Ion Ratio Lower Upper
94 100
96 94.5 76.2 114.4

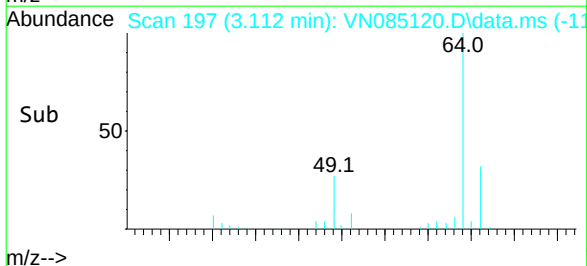
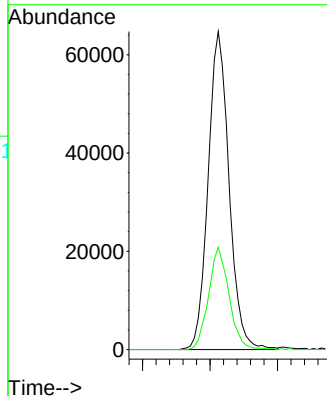
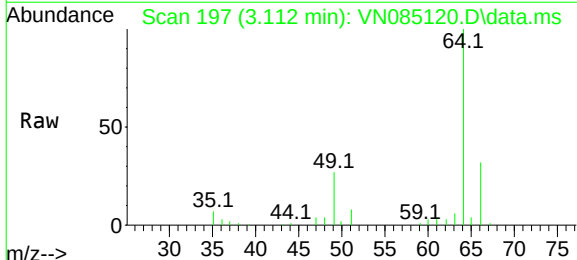
Manual Integrations
APPROVED

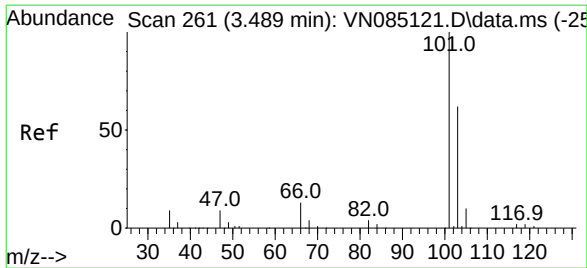
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#6
Chloroethane
Concen: 103.541 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

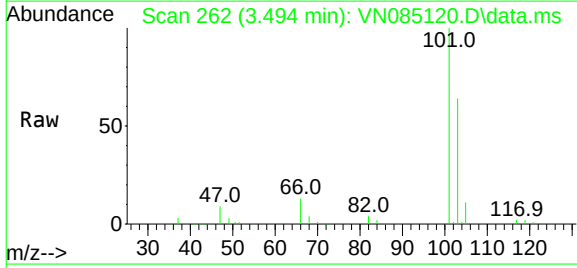
Tgt Ion: 64 Resp: 139552
Ion Ratio Lower Upper
64 100
66 32.2 25.5 38.3





#7
Trichlorofluoromethane
Concen: 104.742 ug/l
RT: 3.494 min Scan# 261
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

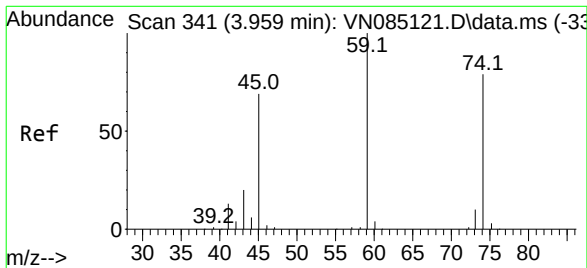
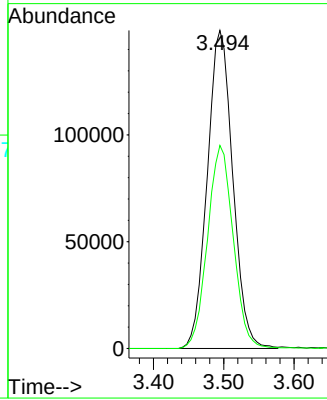
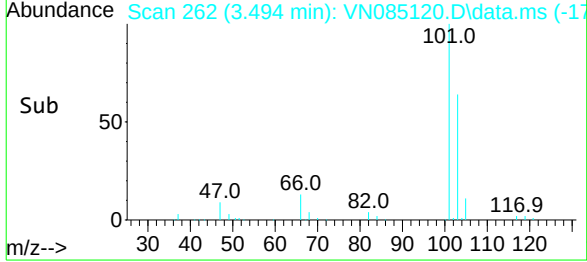
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



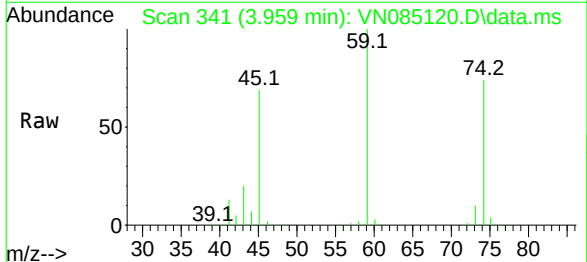
Tgt Ion:101 Resp: 376125
Ion Ratio Lower Upper
101 100
103 63.8 51.3 76.9

Manual Integrations
APPROVED

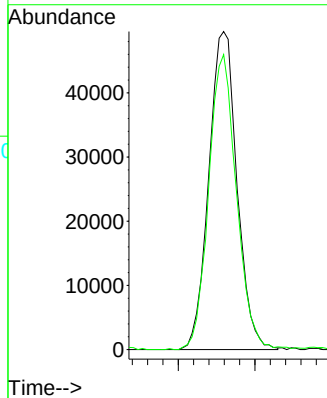
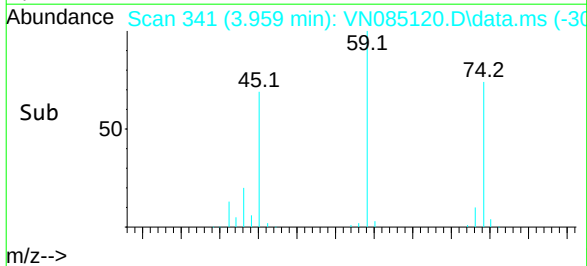
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

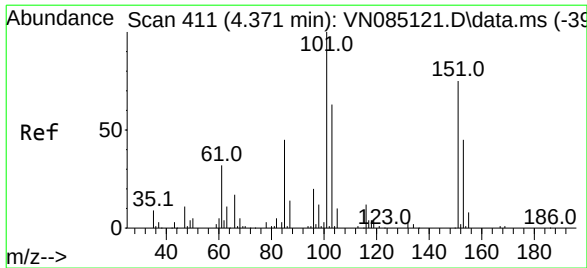


#8
Diethyl Ether
Concen: 111.303 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13



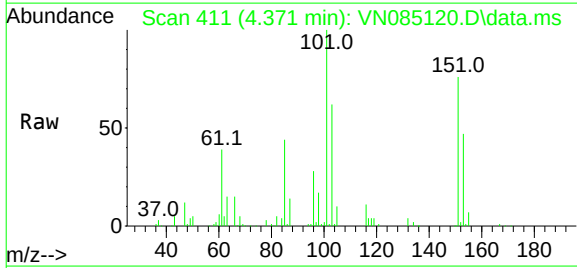
Tgt Ion: 74 Resp: 126597
Ion Ratio Lower Upper
74 100
45 90.9 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 103.665 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

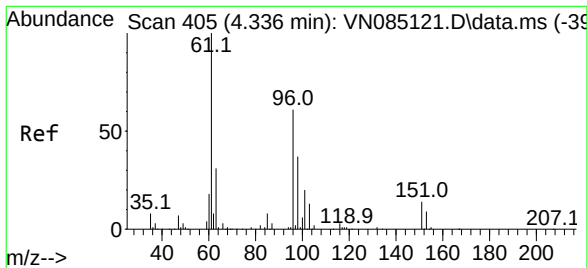
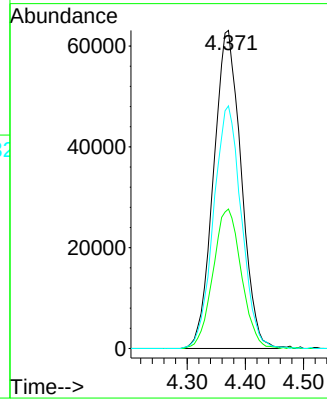
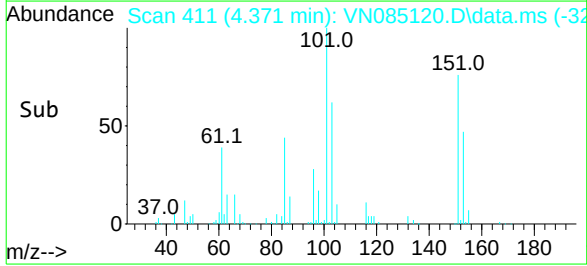
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:101 Resp: 208174
Ion Ratio Lower Upper
101 100
85 45.0 0.0 88.6
151 77.0 0.0 155.8

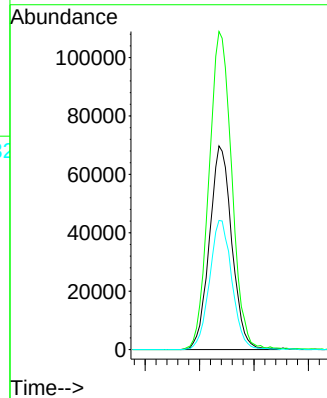
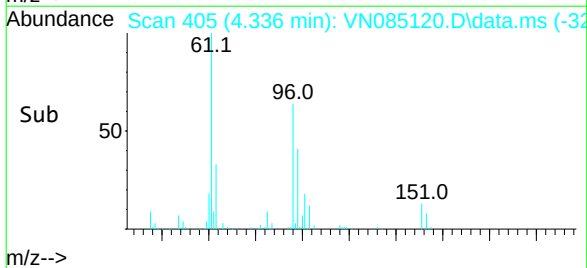
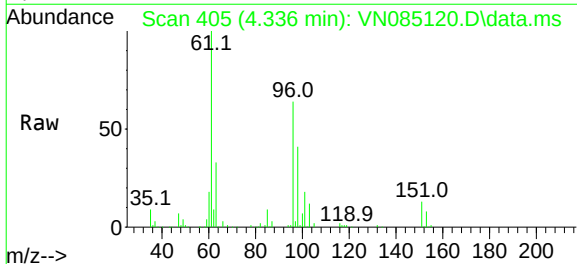
Manual Integrations
APPROVED

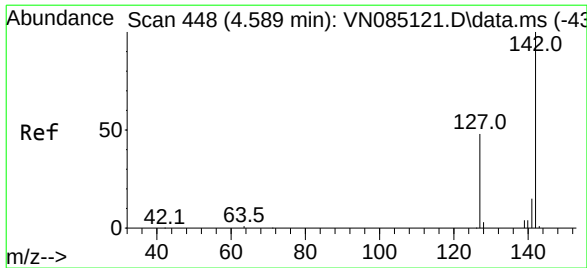
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#10
1,1-Dichloroethene
Concen: 108.286 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

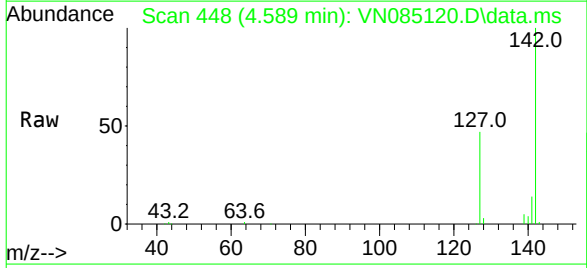
Tgt Ion: 96 Resp: 199737
Ion Ratio Lower Upper
96 100
61 156.2 123.0 184.4
98 63.4 49.1 73.7





#11
Methyl Iodide
Concen: 111.529 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

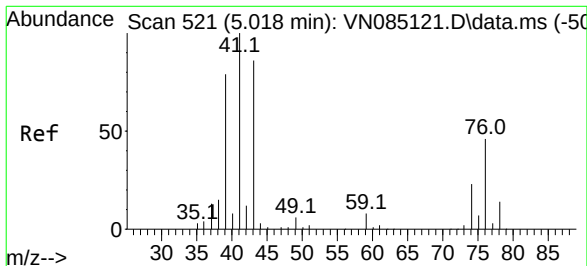
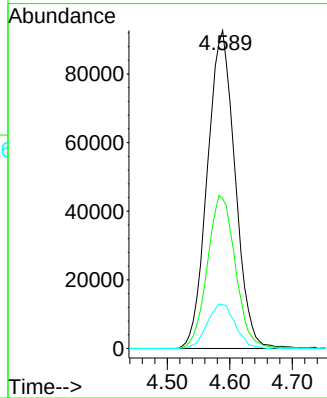
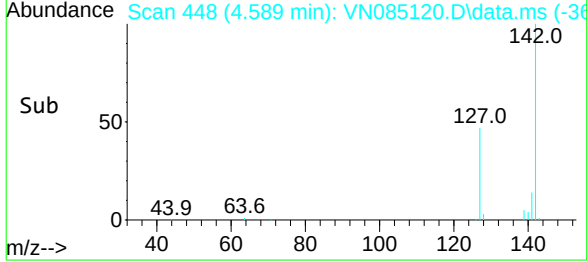
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



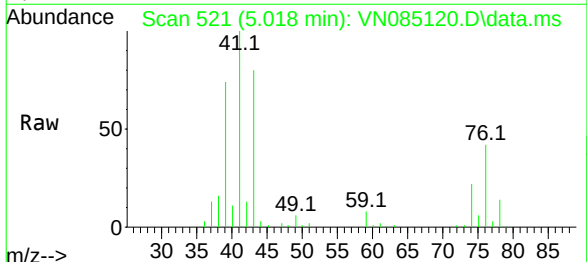
Tgt Ion:142 Resp: 285314
Ion Ratio Lower Upper
142 100
127 46.9 22.5 67.5
141 13.8 8.3 24.9

Manual Integrations
APPROVED

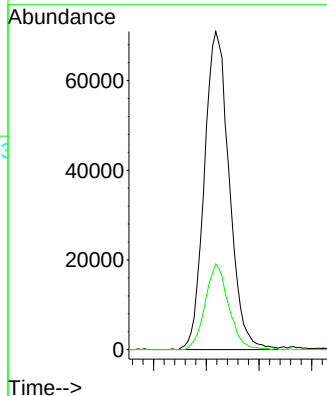
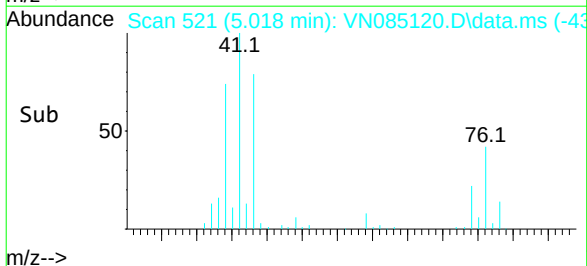
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

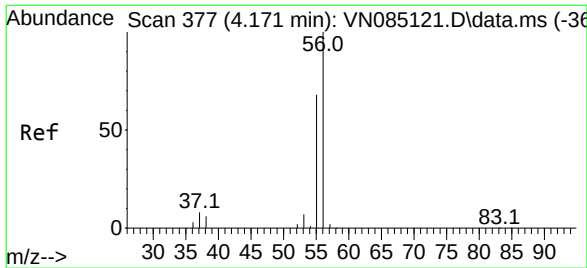


#12
Methyl Acetate
Concen: 106.935 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13



Tgt Ion: 43 Resp: 232698
Ion Ratio Lower Upper
43 100
74 26.9 19.8 29.6





#13

Acrolein

Concen: 539.405 ug/l

RT: 4.177 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 170574

Ion Ratio Lower Upper

56 100

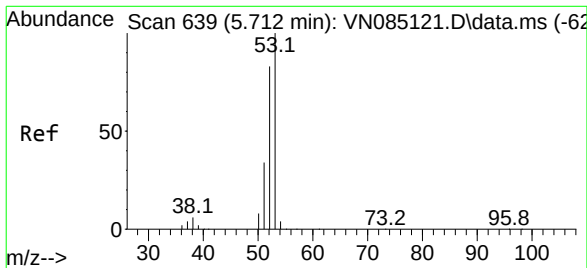
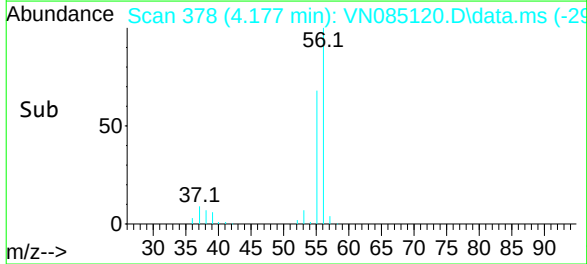
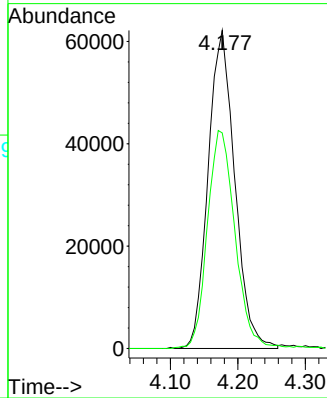
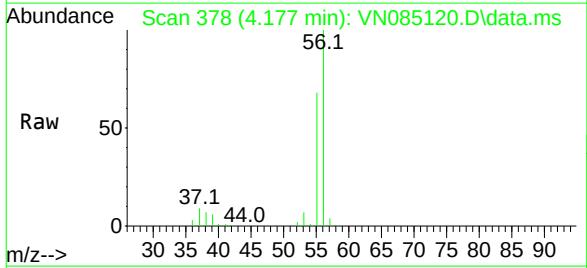
55 70.6 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#14

Acrylonitrile

Concen: 545.734 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

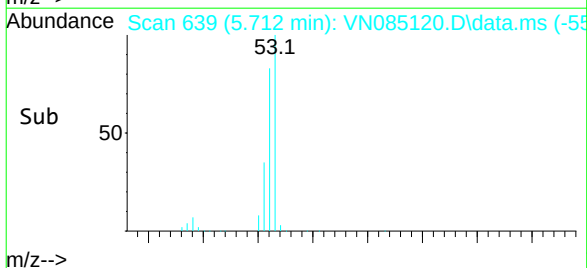
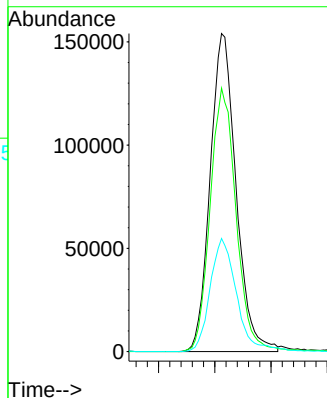
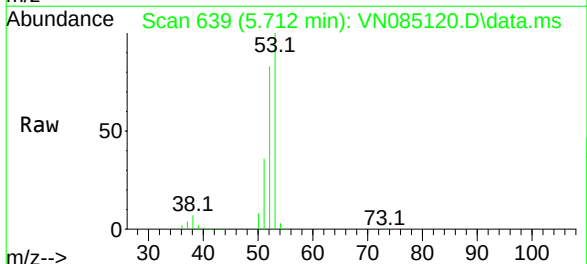
Tgt Ion: 53 Resp: 493102

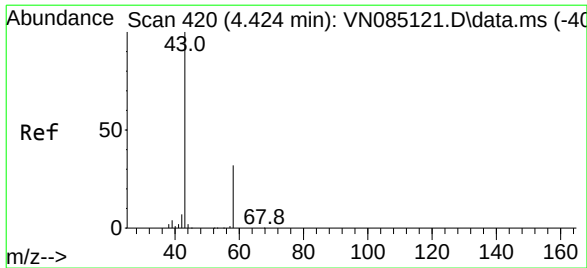
Ion Ratio Lower Upper

53 100

52 82.7 42.9 128.5

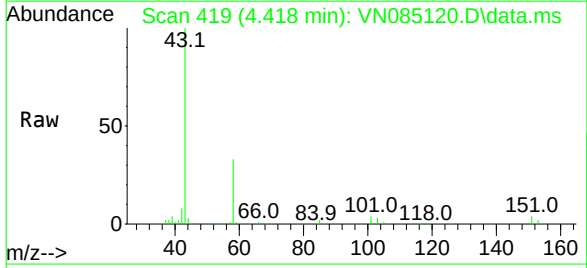
51 36.4 17.2 51.5





#15
Acetone
Concen: 557.523 ug/l
RT: 4.418 min Scan# 418
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

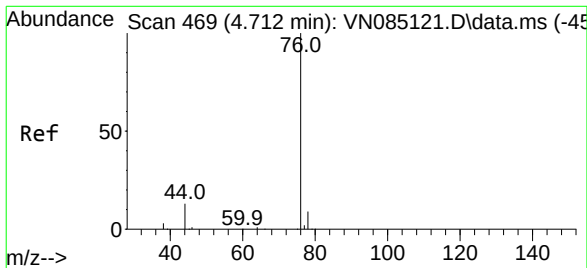
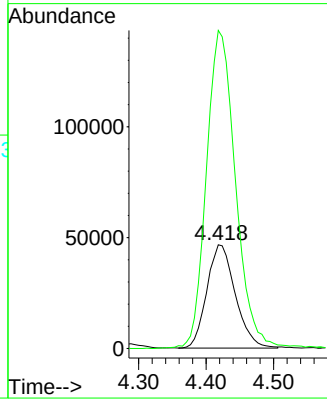
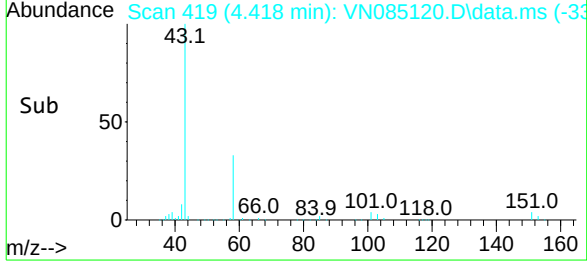
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 58 Resp: 136513
Ion Ratio Lower Upper
58 100
43 305.3 242.3 363.5

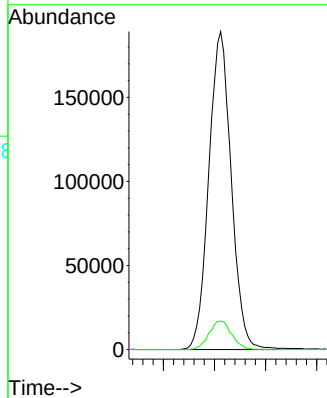
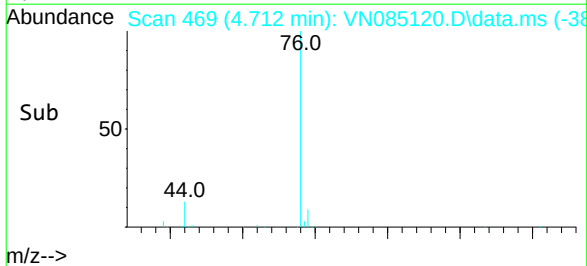
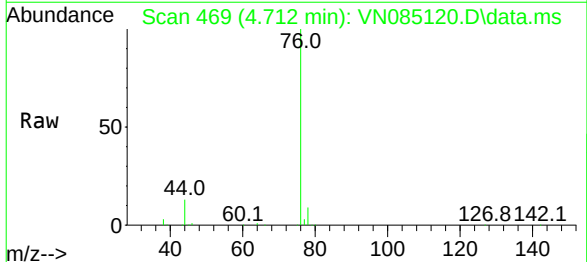
Manual Integrations
APPROVED

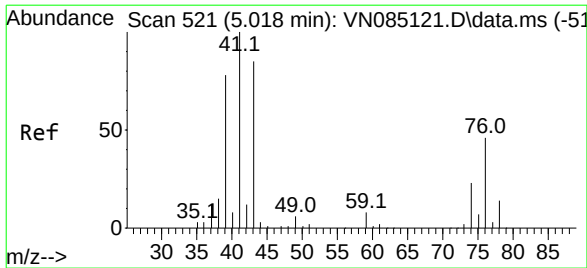
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#16
Carbon Disulfide
Concen: 104.540 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

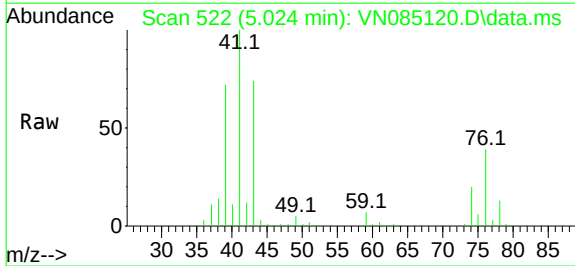
Tgt Ion: 76 Resp: 576373
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7





#17
Allyl chloride
Concen: 111.032 ug/l
RT: 5.024 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

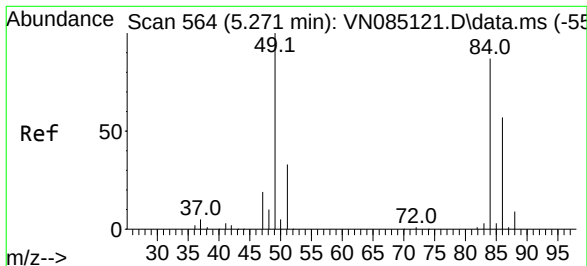
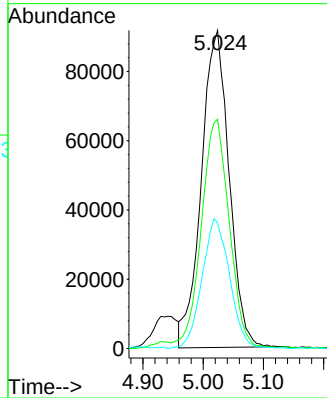
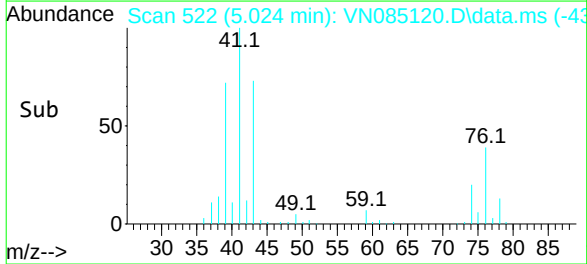
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 293051
Ion Ratio Lower Upper
41 100
39 72.2 32.0 96.2
76 39.4 20.2 60.5

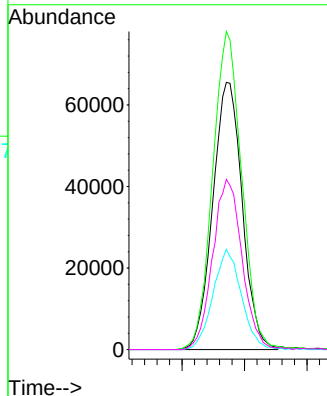
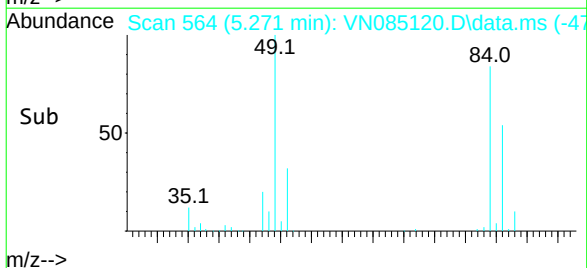
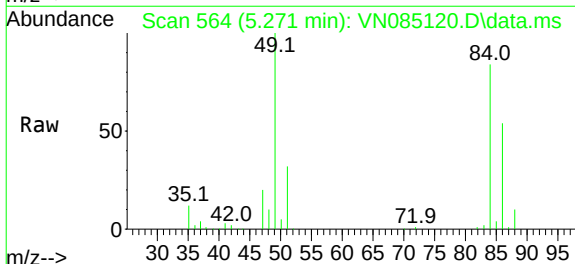
Manual Integrations
APPROVED

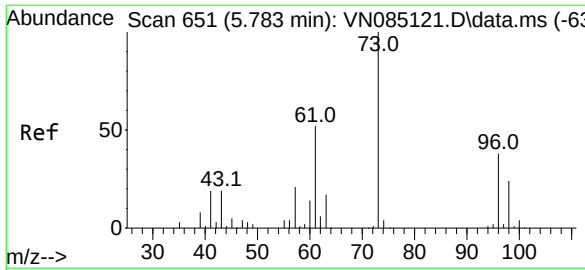
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#18
Methylene Chloride
Concen: 102.597 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

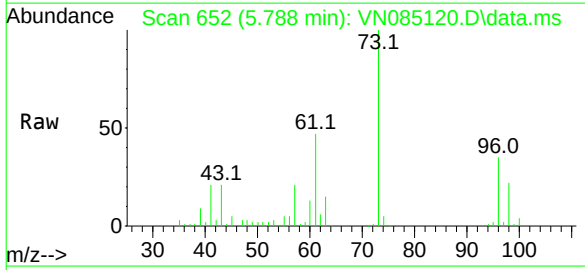
Tgt Ion: 84 Resp: 214729
Ion Ratio Lower Upper
84 100
49 118.8 95.1 142.7
51 37.5 27.4 41.0
86 63.7 50.9 76.3





#19
trans-1,2-Dichloroethene
Concen: 105.945 ug/l
RT: 5.788 min Scan# 651
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

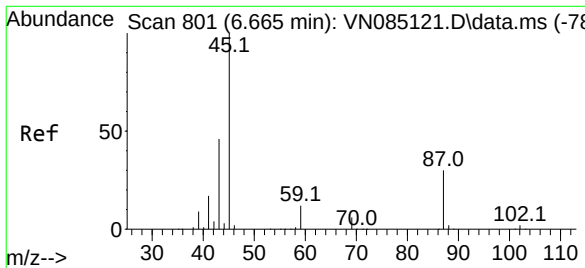
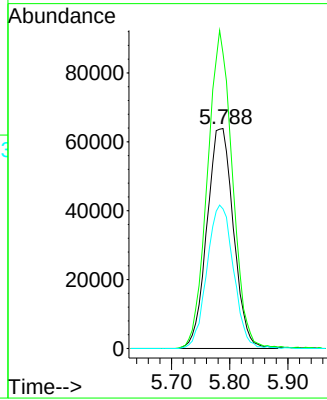
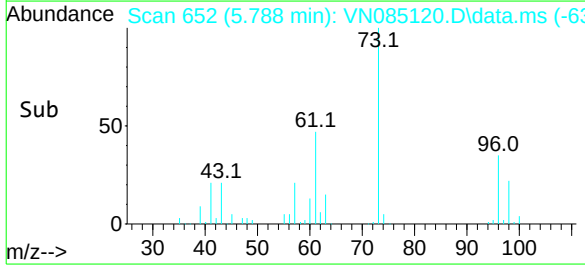
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



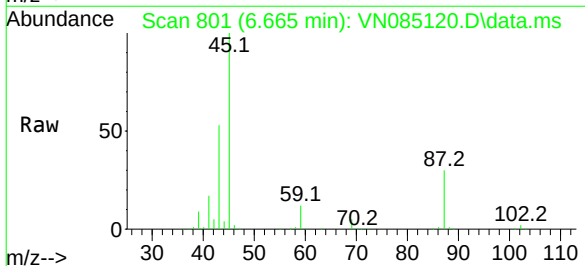
Tgt Ion: 96 Resp: 203123
Ion Ratio Lower Upper
96 100
61 133.8 100.4 150.6
98 63.4 52.6 79.0

Manual Integrations
APPROVED

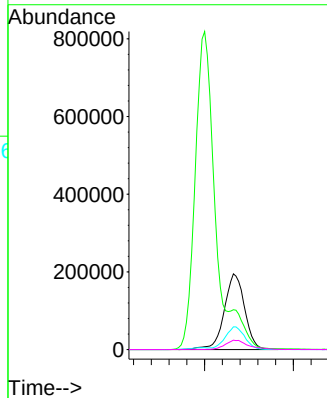
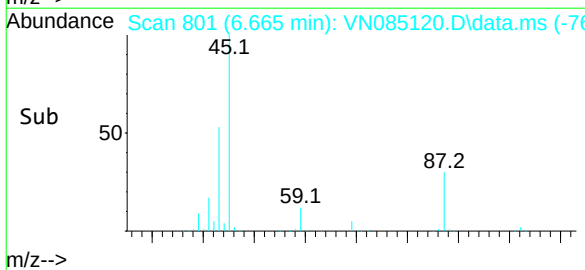
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

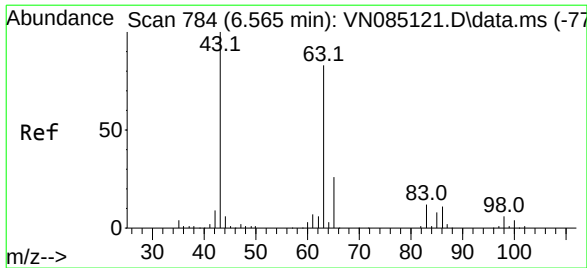


#20
Diisopropyl ether
Concen: 107.259 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13



Tgt Ion: 45 Resp: 621282
Ion Ratio Lower Upper
45 100
43 51.6 41.9 62.9
87 29.9 24.1 36.1
59 12.3 10.0 15.0





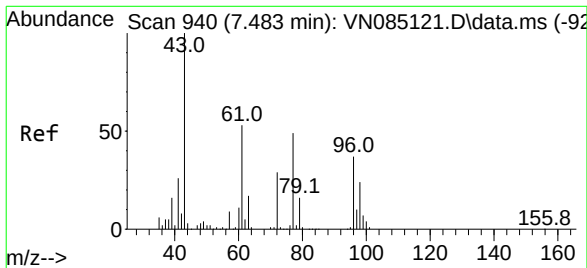
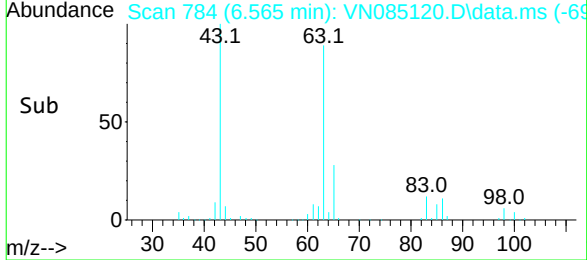
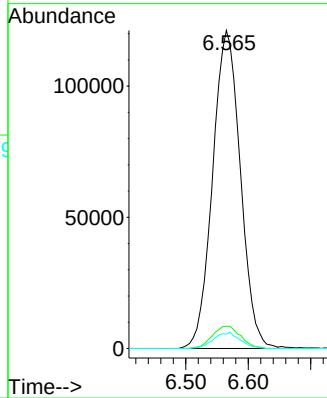
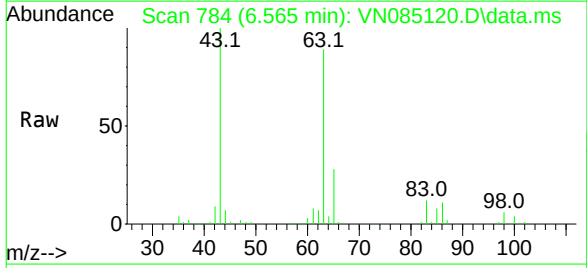
#21
1,1-Dichloroethane
Concen: 104.639 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:	63	Resp:	374096
Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.4
100	4.5	1.6	4.8

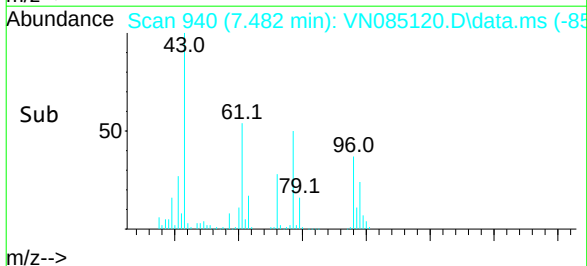
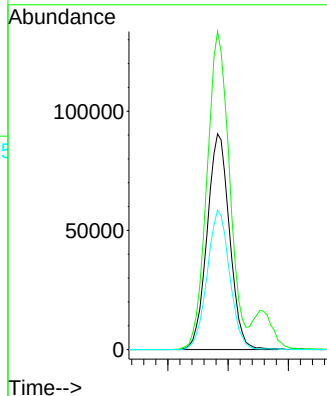
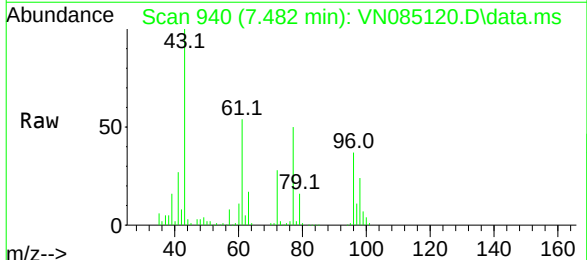
Manual Integrations
APPROVED

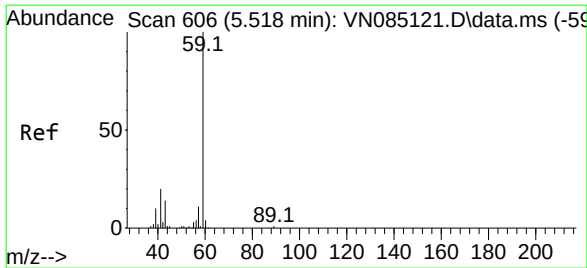
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#22
cis-1,2-Dichloroethene
Concen: 106.277 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

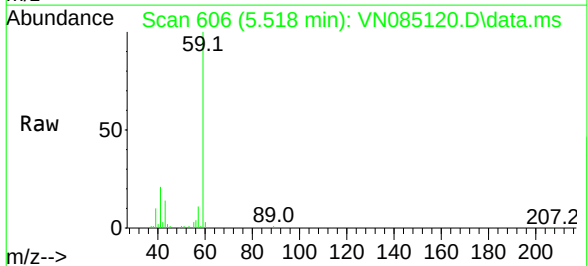
Tgt Ion:	96	Resp:	234199
Ion	Ratio	Lower	Upper
96	100		
61	147.4	115.9	173.9
98	64.7	51.8	77.8





#23
tert-Butyl Alcohol
Concen: 568.118 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

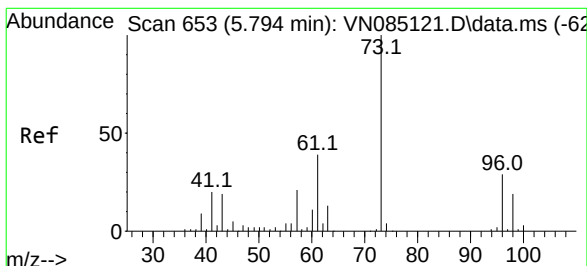
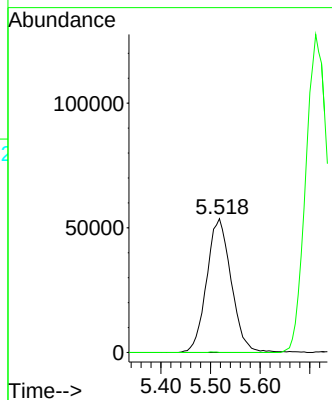
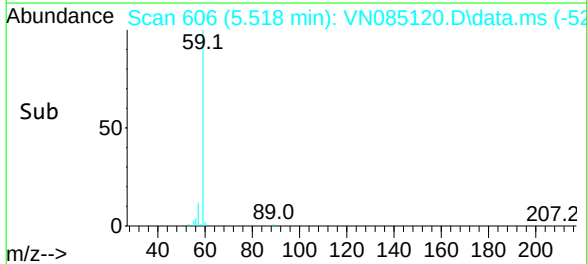
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



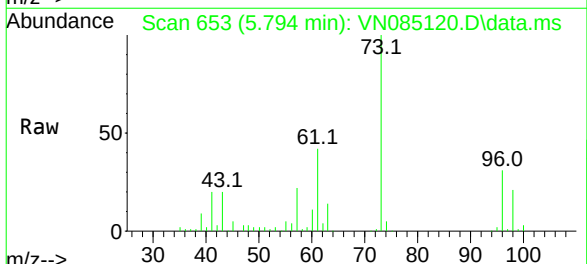
Tgt Ion: 59 Resp: 184150
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#

Manual Integrations
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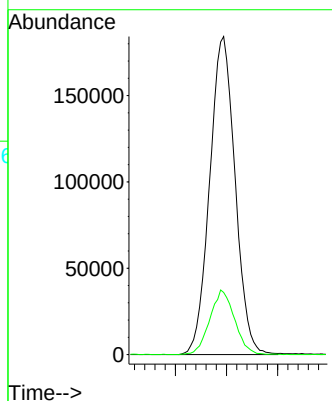
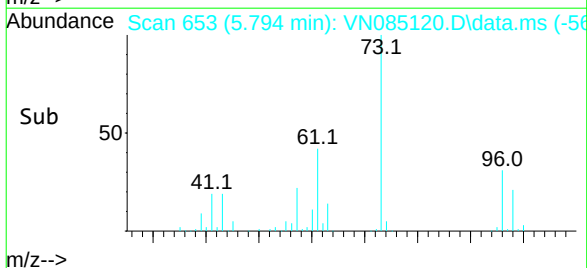
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

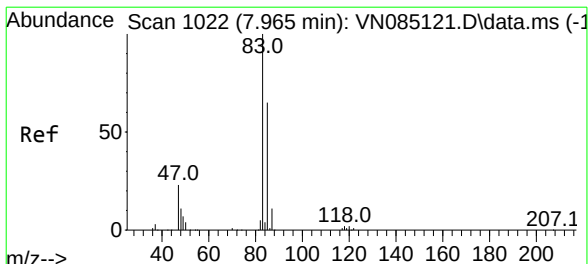


#24
Methyl tert-Butyl Ether
Concen: 110.650 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13



Tgt Ion: 73 Resp: 637140
Ion Ratio Lower Upper
73 100
43 19.7 8.7 13.1#





#25
Chloroform
Concen: 102.776 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

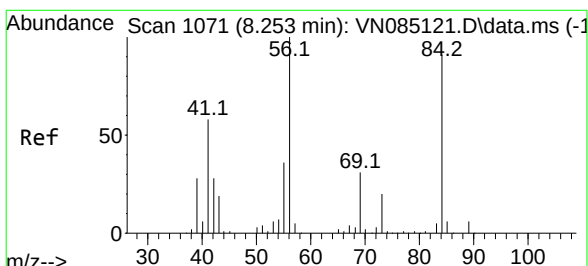
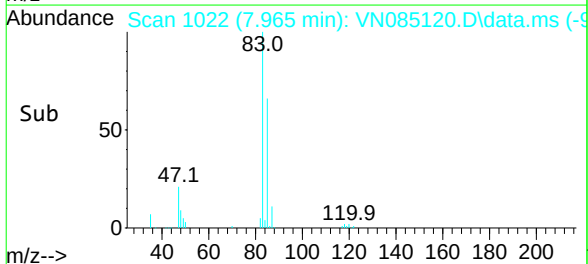
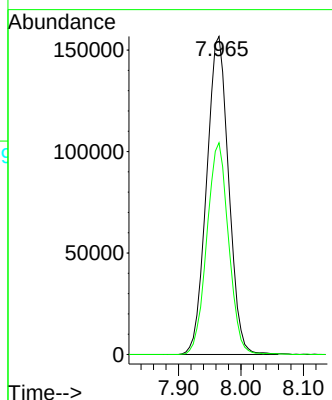
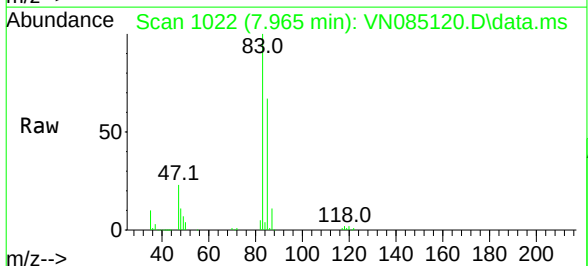
ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 384926
Ion Ratio Lower Upper
83 100
85 66.6 49.4 74.0

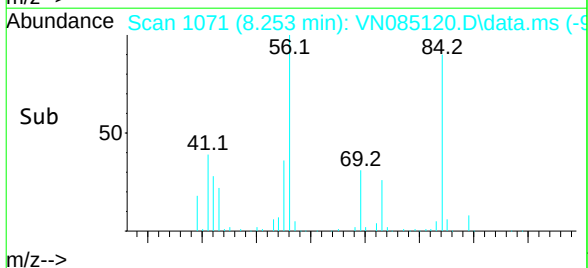
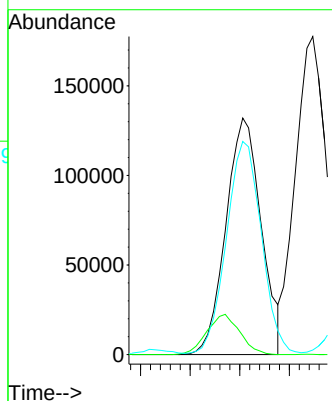
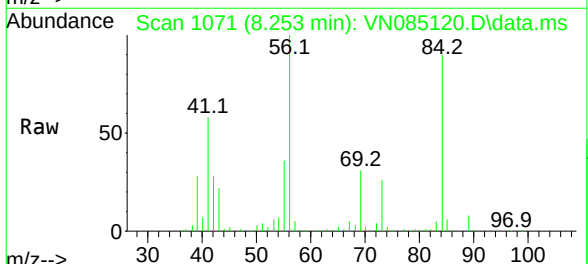
Manual Integrations
APPROVED

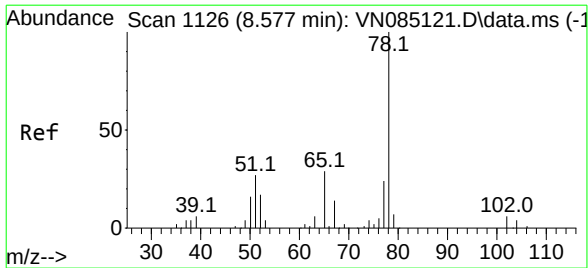
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#26
Cyclohexane
Concen: 111.090 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 56 Resp: 327008
Ion Ratio Lower Upper
56 100
89 15.9 19.5 29.3#
84 89.7 70.6 105.8





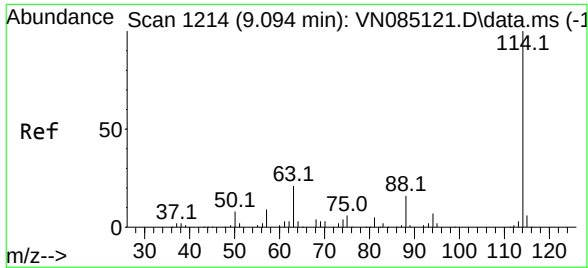
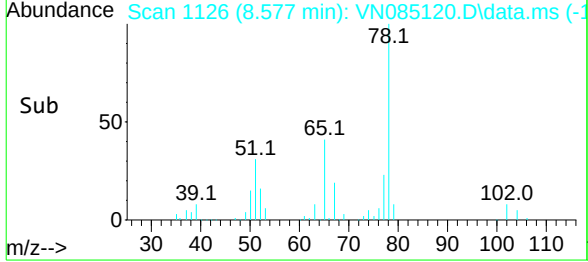
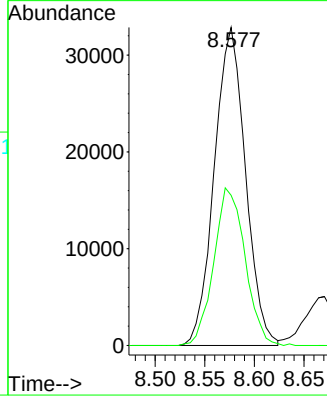
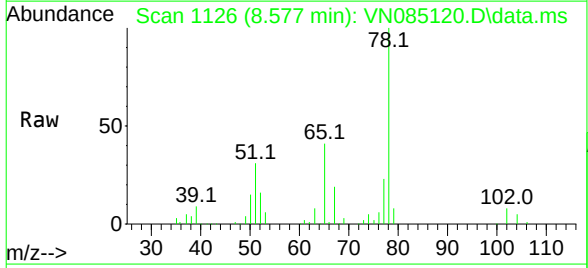
#27
1,2-Dichloroethane-d4
Concen: 29.873 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 71793
Ion Ratio Lower Upper
65 100
67 49.6 39.9 59.9

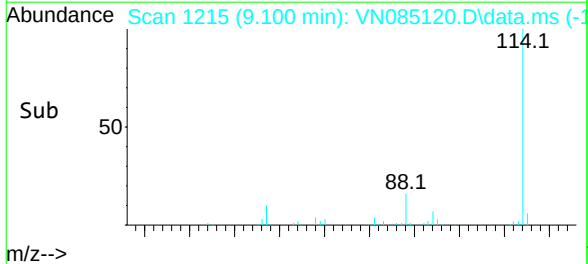
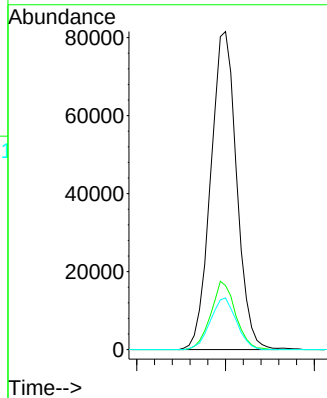
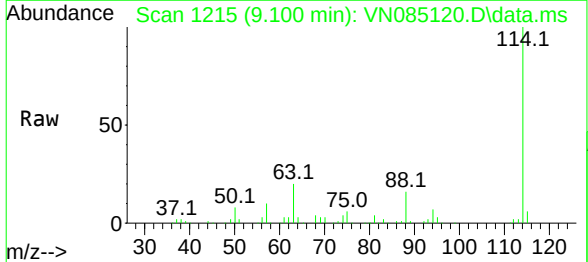
Manual Integrations
APPROVED

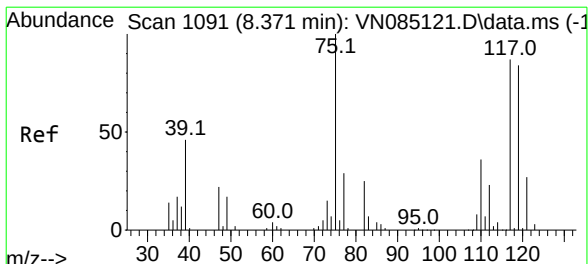
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:114 Resp: 165873
Ion Ratio Lower Upper
114 100
63 20.4 16.2 24.2
88 16.2 12.5 18.7





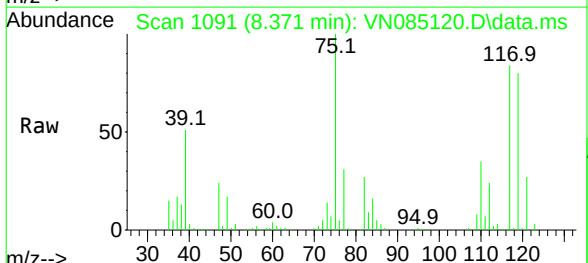
#29
 1,1-Dichloropropene
 Concen: 104.562 ug/l
 RT: 8.371 min Scan# 1091
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

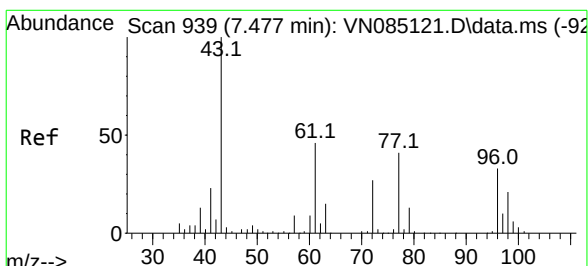
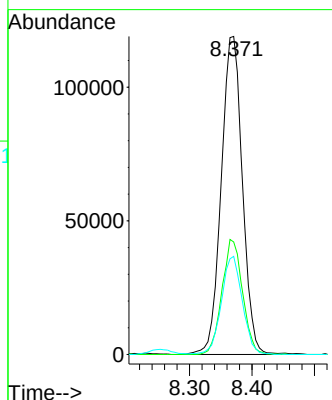
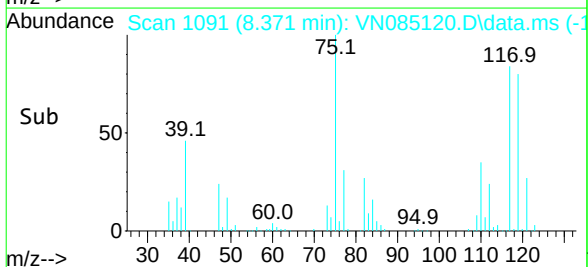
VSTDICC100



Tgt Ion:	75	Resp:	279872
Ion	Ratio	Lower	Upper
75	100		
110	35.1	0.0	71.6
77	30.7	0.0	62.2

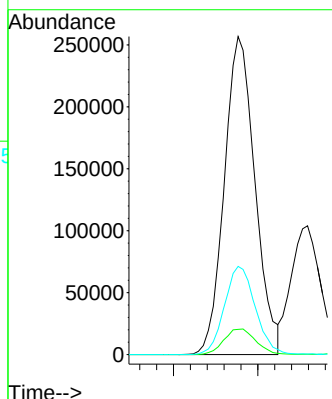
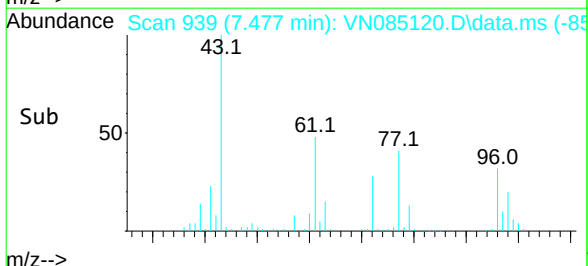
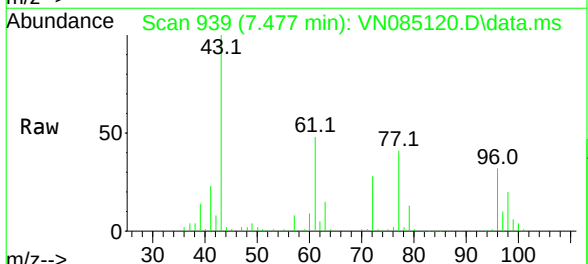
Manual Integrations
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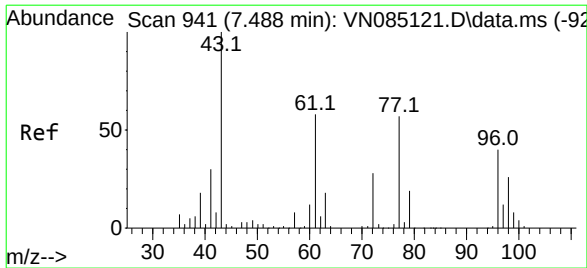
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#30
 2-Butanone
 Concen: 528.323 ug/l
 RT: 7.477 min Scan# 939
 Delta R.T. -0.006 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Tgt Ion:	43	Resp:	648934
Ion	Ratio	Lower	Upper
43	100		
57	8.4	6.9	10.3
72	27.9	21.8	32.8





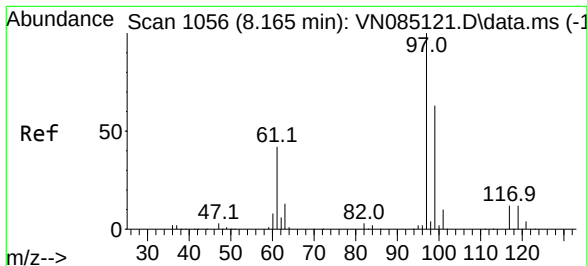
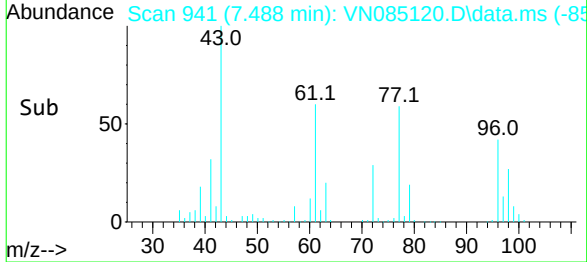
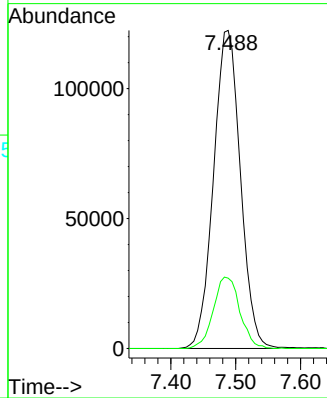
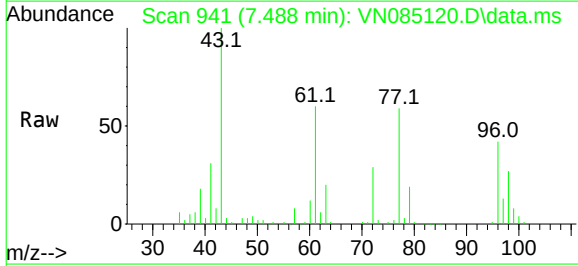
#31
2,2-Dichloropropane
Concen: 102.508 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 77 Resp: 351838
Ion Ratio Lower Upper
77 100
97 22.1 0.0 0.0#

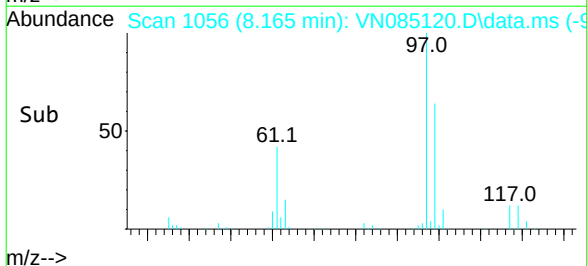
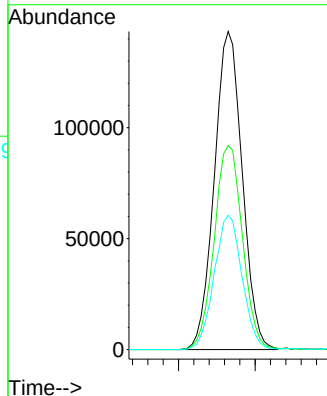
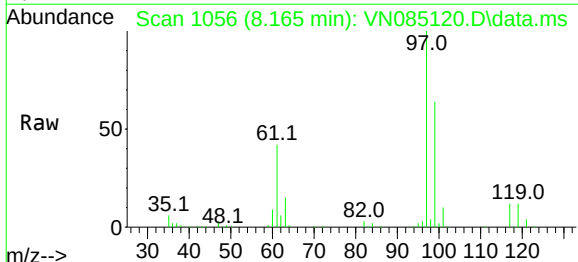
Manual Integrations
APPROVED

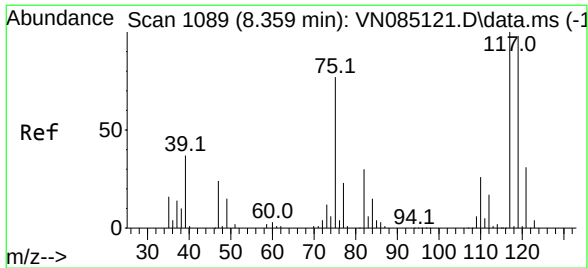
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#32
1,1,1-Trichloroethane
Concen: 100.216 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

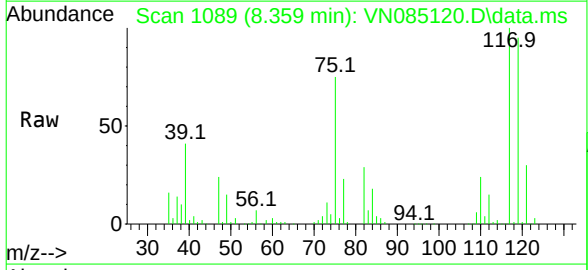
Tgt Ion: 97 Resp: 363069
Ion Ratio Lower Upper
97 100
99 64.8 50.8 76.2
61 42.1 32.7 49.1





#33
Carbon Tetrachloride
Concen: 100.027 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument : MSVOA_N
Client Sample Id : VSTDIC100

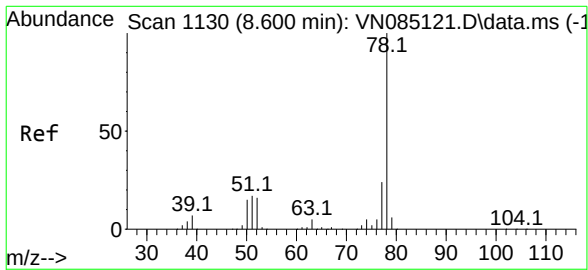
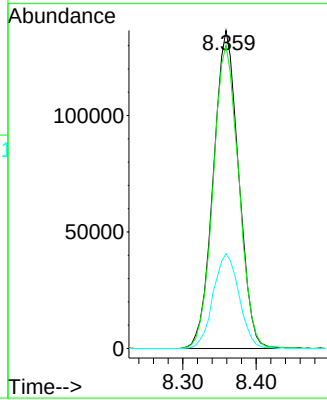
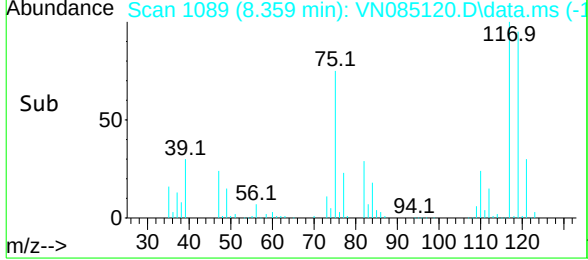


Tgt Ion: 117 Resp: 327001

Ion	Ratio	Lower	Upper
117	100		
119	95.3	81.6	122.4
121	29.8	26.5	39.7

Manual Integrations
APPROVED

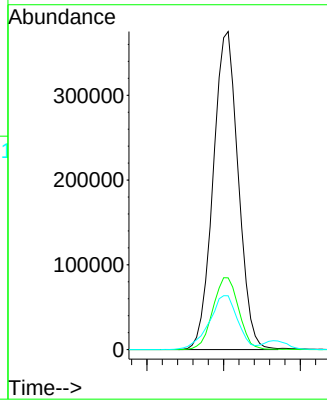
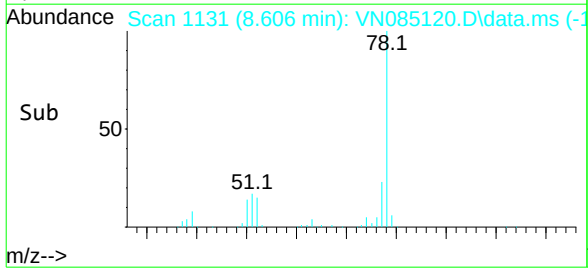
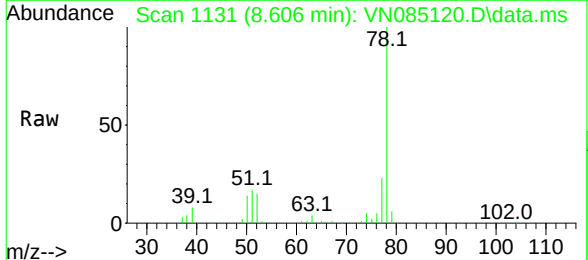
Reviewed By : Mahesh Dadoda 12/09/2024
Supervised By : Semsettin Yesilyurt 12/09/2024

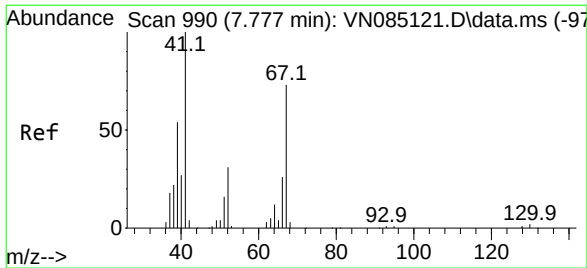


#34
Benzene
Concen: 101.479 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 78 Resp: 853279

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.0	27.0
51	16.7	12.4	18.6





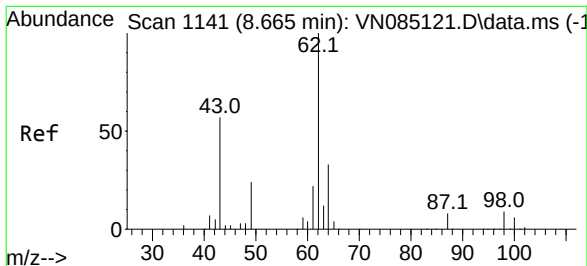
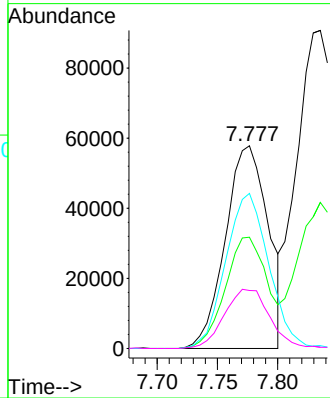
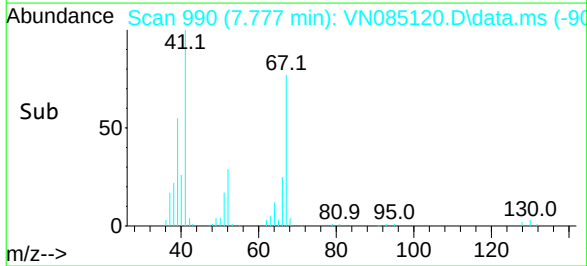
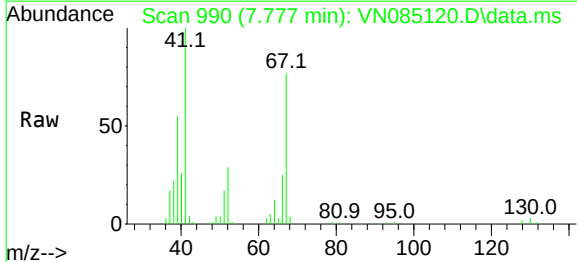
#35
Methacrylonitrile
Concen: 103.194 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:	41	Resp:	142639
Ion	Ratio	Lower	Upper
41	100		
39	54.9	24.4	73.2
67	76.5	37.0	110.9
52	28.6	12.4	37.2

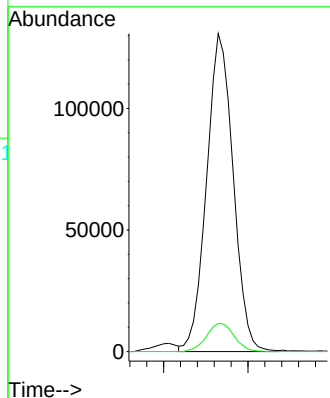
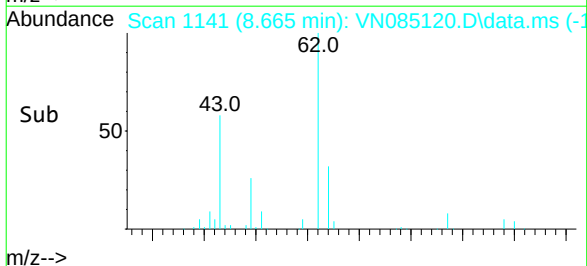
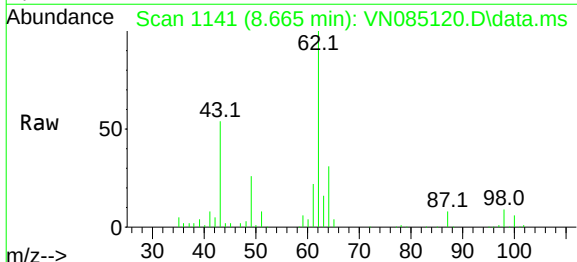
Manual Integrations
APPROVED

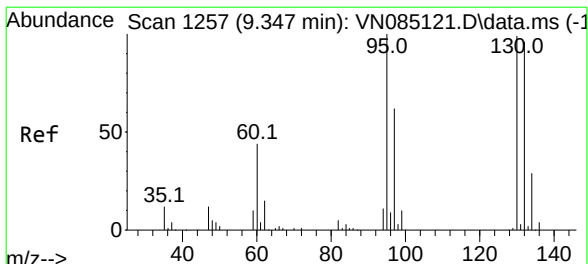
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#36
1,2-Dichloroethane
Concen: 100.087 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:	62	Resp:	286487
Ion	Ratio	Lower	Upper
62	100		
98	9.2	7.3	10.9





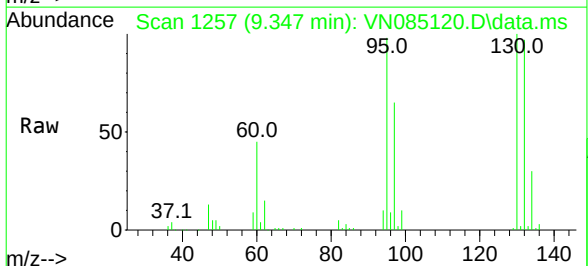
#37
 Trichloroethene
 Concen: 103.077 ug/l
 RT: 9.347 min Scan# 1298
 Delta R.T. -0.006 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

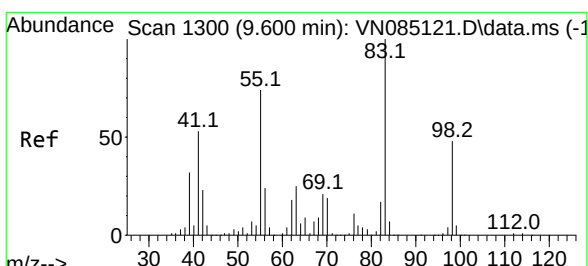
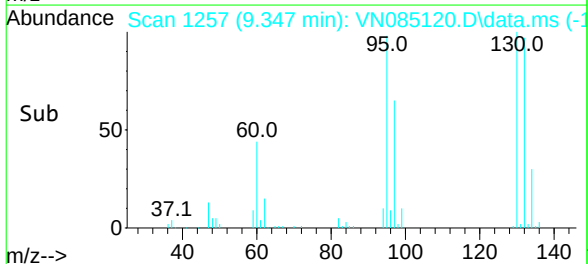
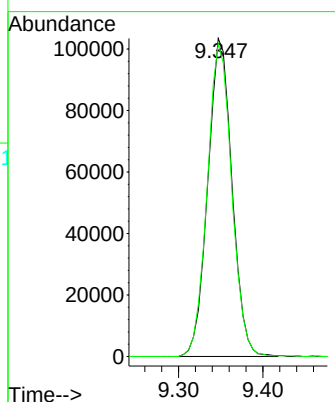


Tgt Ion:	130	Resp:	206395
Ion	Ratio	Lower	Upper
130	100		
95	98.3	76.2	114.4

Manual Integrations

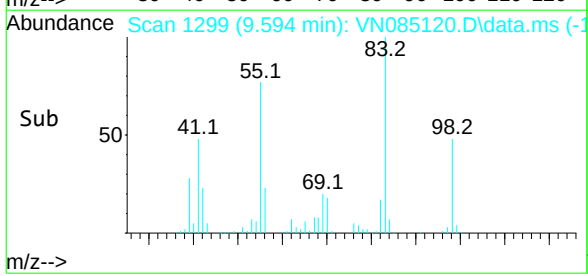
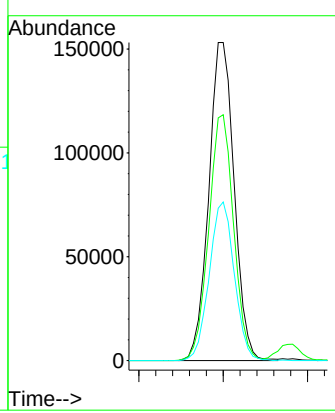
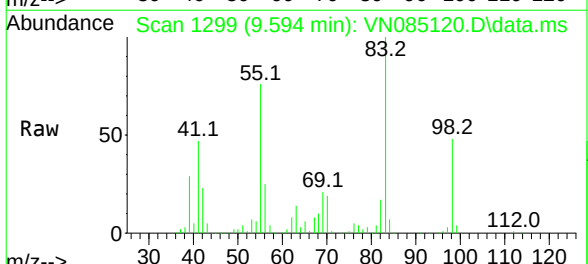
APPROVED

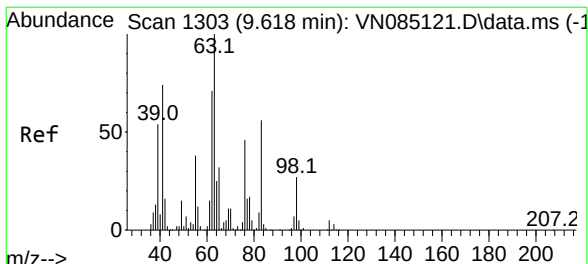
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#38
 Methylcyclohexane
 Concen: 110.090 ug/l
 RT: 9.594 min Scan# 1299
 Delta R.T. -0.006 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

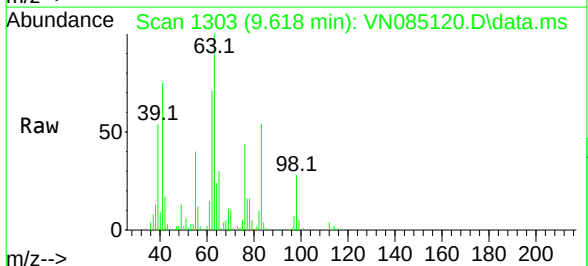
Tgt Ion:	83	Resp:	320395
Ion	Ratio	Lower	Upper
83	100		
55	75.8	41.4	124.4
98	49.2	25.7	77.1





#39
 1,2-Dichloropropane
 Concen: 99.263 ug/l
 RT: 9.618 min Scan# 1303
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

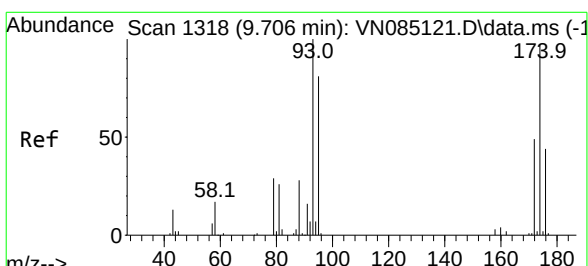
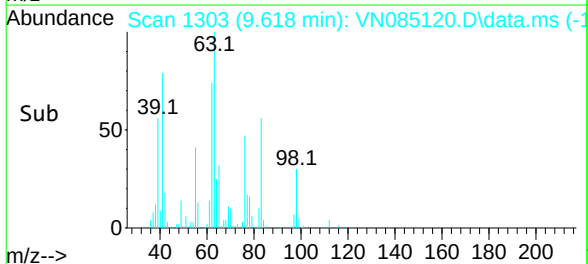
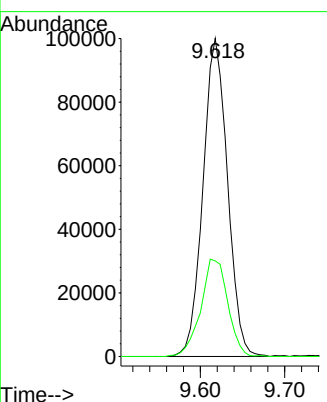
Instrument : MSVOA_N
 ClientSampleId : VSTDICC100



Tgt Ion: 63 Resp: 202160

Ion	Ratio	Lower	Upper
63	100		
65	30.0	23.4	35.0

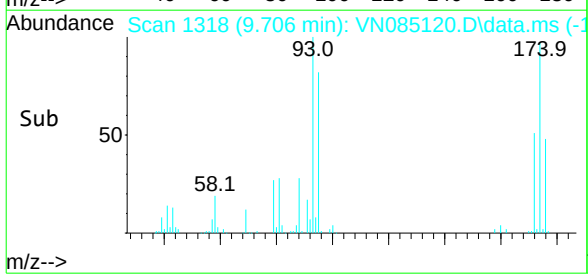
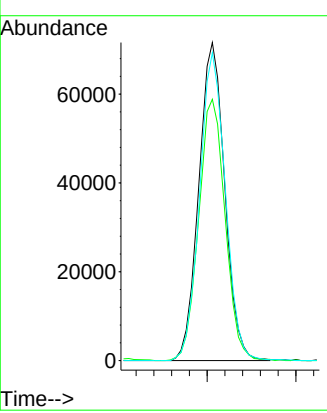
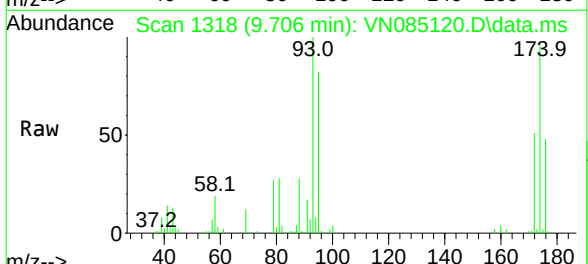
Manual Integrations
APPROVED
 Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

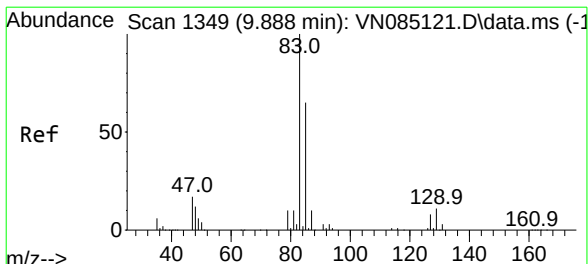


#40
 Dibromomethane
 Concen: 99.515 ug/l
 RT: 9.706 min Scan# 1318
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Tgt Ion: 93 Resp: 145378

Ion	Ratio	Lower	Upper
93	100		
95	83.7	0.0	169.4
174	95.7	0.0	189.8





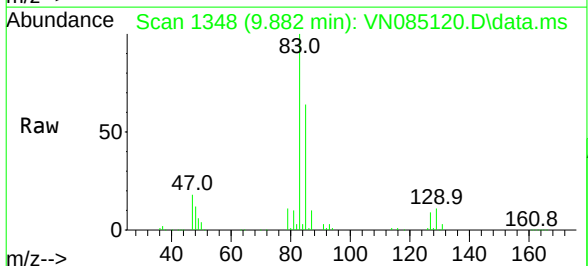
#41
 Bromodichloromethane
 Concen: 100.007 ug/l
 RT: 9.882 min Scan# 13
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

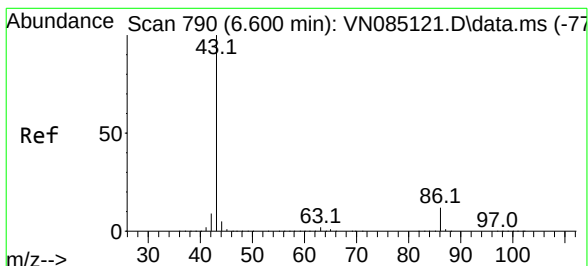
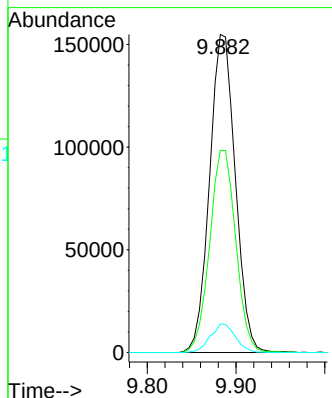
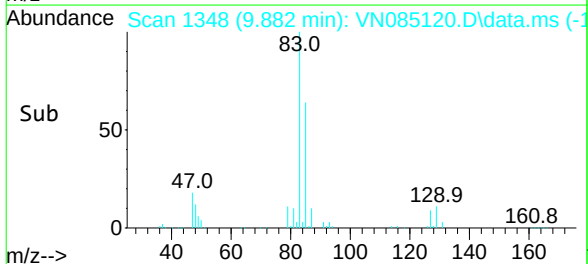
VSTDICC100



Tgt Ion:	83	Resp:	312321
Ion	Ratio	Lower	Upper
83	100		
85	63.6	54.6	81.8
127	9.0	7.0	10.6

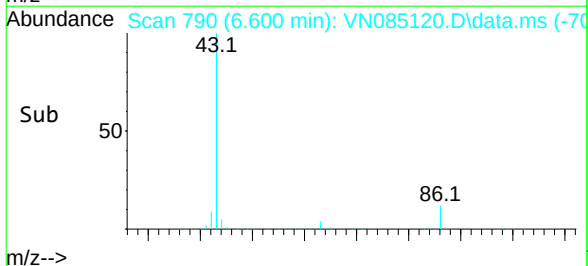
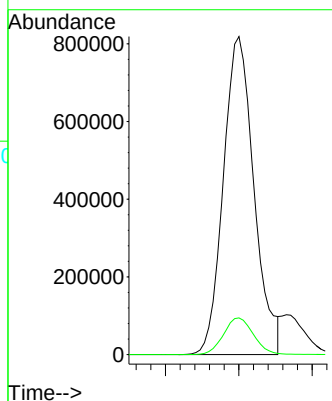
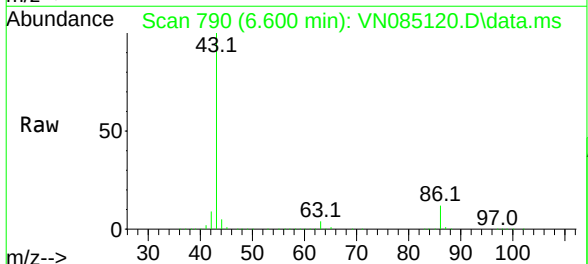
Manual Integrations
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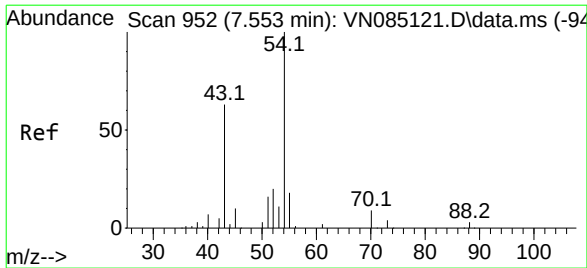
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#42
 Vinyl Acetate
 Concen: 553.721 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Tgt Ion:	43	Resp:	2379940
Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.2	13.8





#43

Ethyl Acetate

Concen: 105.766 ug/l

RT: 7.559 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 258485

Ion Ratio Lower Upper

43 100

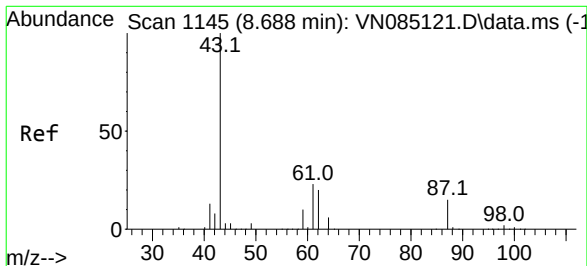
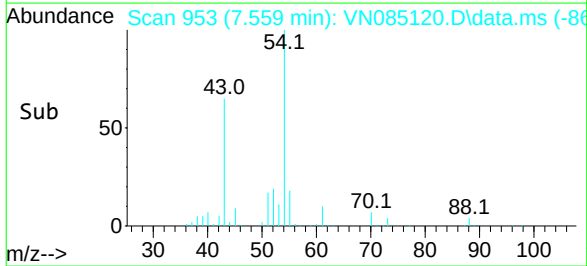
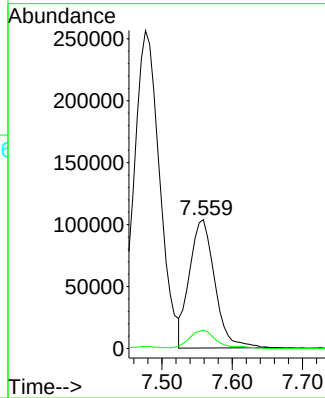
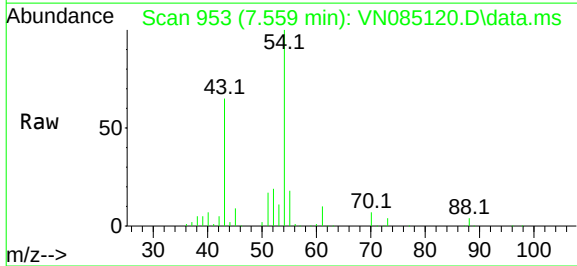
45 14.5 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#44

Isopropyl Acetate

Concen: 103.239 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN085120.D

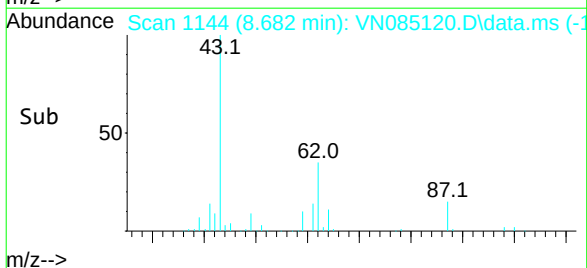
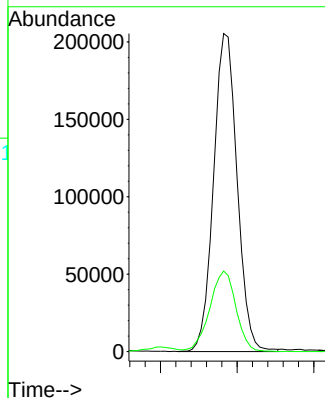
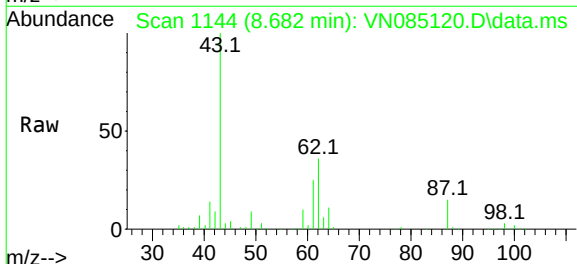
Acq: 06 Dec 2024 11:13

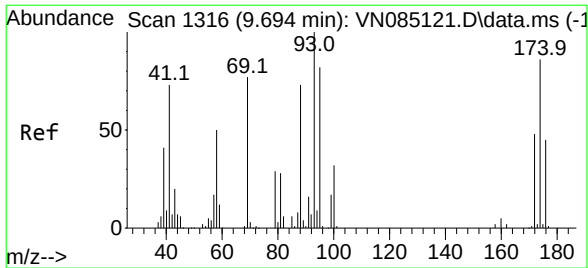
Tgt Ion: 43 Resp: 438465

Ion Ratio Lower Upper

43 100

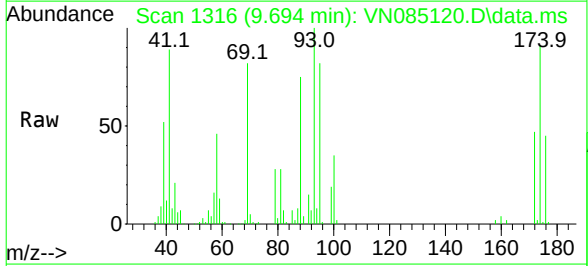
61 28.2 21.5 32.3





#45
1,4-Dioxane
Concen: 2192.363 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

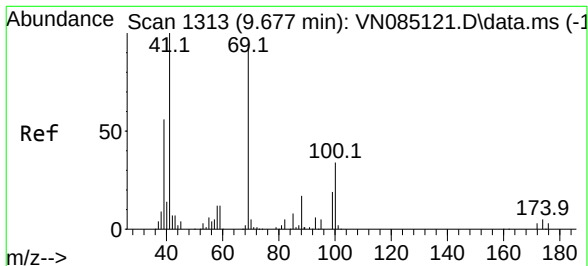
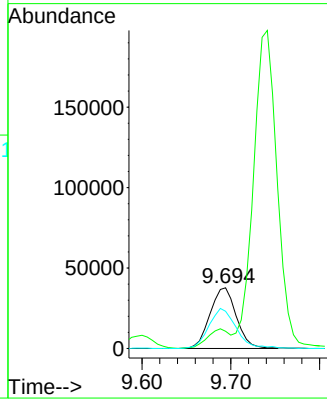
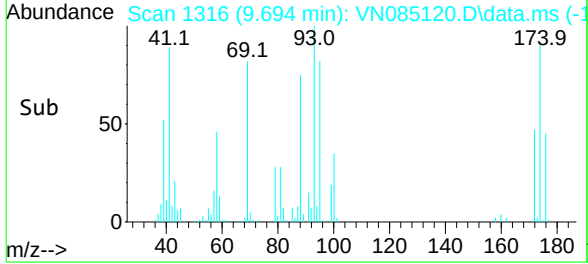
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 88 Resp: 77646
Ion Ratio Lower Upper
88 100
43 27.5 21.7 32.5
58 68.9 52.6 79.0

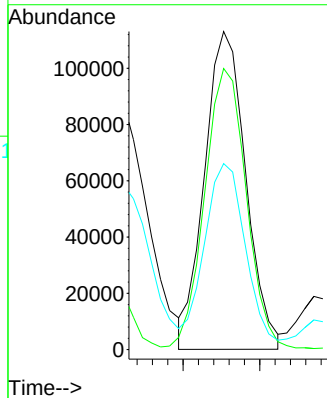
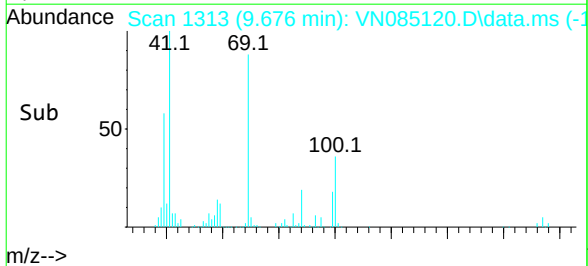
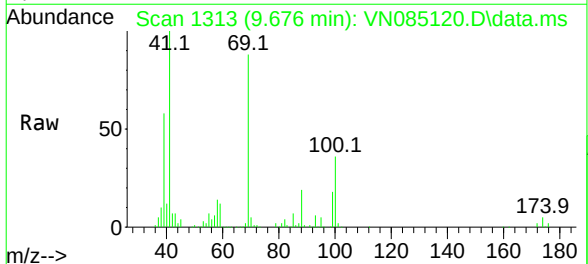
Manual Integrations
APPROVED

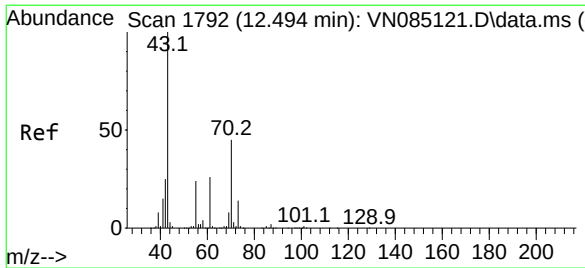
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#46
Methyl methacrylate
Concen: 108.543 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 41 Resp: 210976
Ion Ratio Lower Upper
41 100
69 90.2 46.7 140.0
39 58.4 28.5 85.5





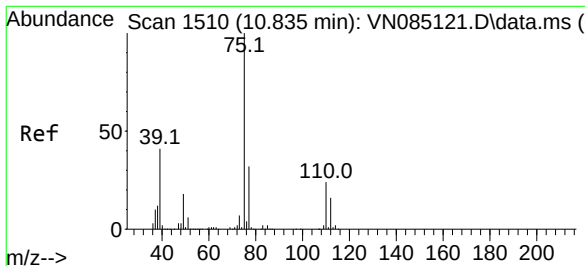
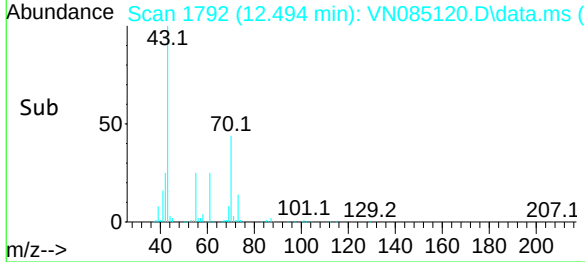
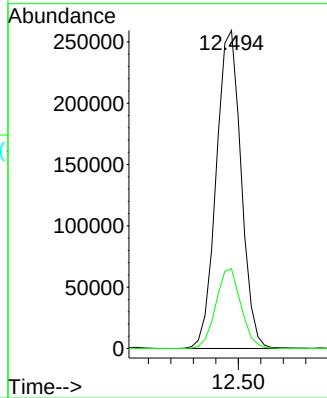
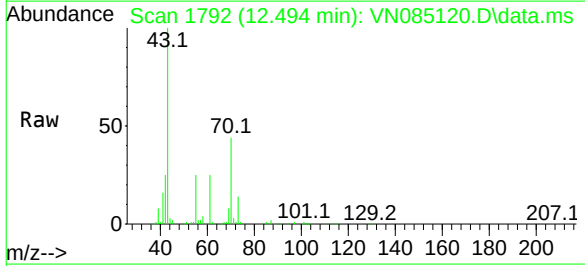
#47
n-amy1 Acetate
Concen: 111.404 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 398085
Ion Ratio Lower Upper
43 100
55 25.3 23.3 34.9

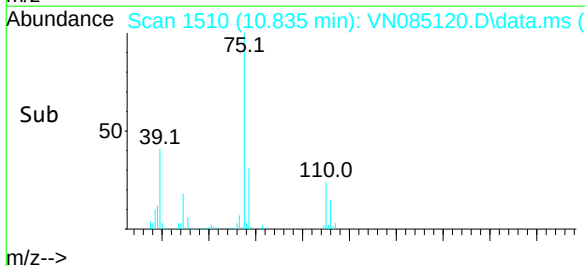
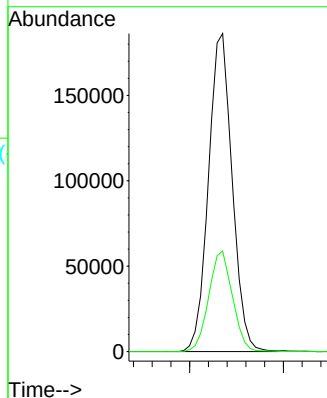
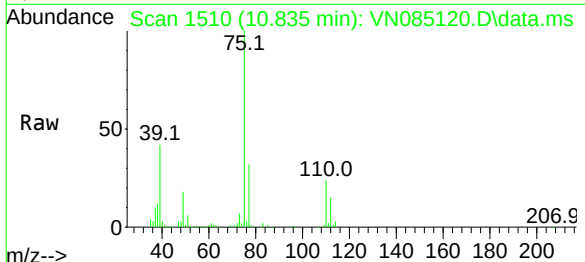
Manual Integrations
APPROVED

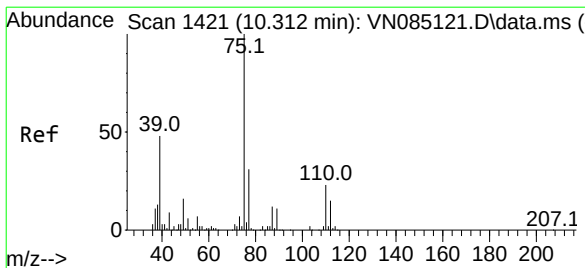
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#48
t-1,3-Dichloropropene
Concen: 106.805 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 75 Resp: 327429
Ion Ratio Lower Upper
75 100
77 31.6 25.5 38.3





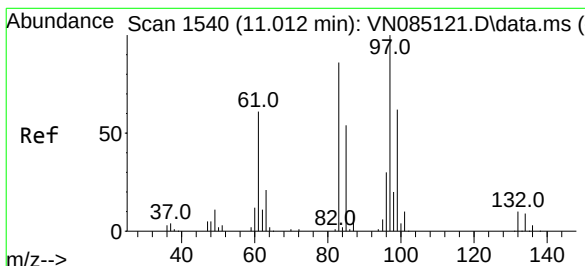
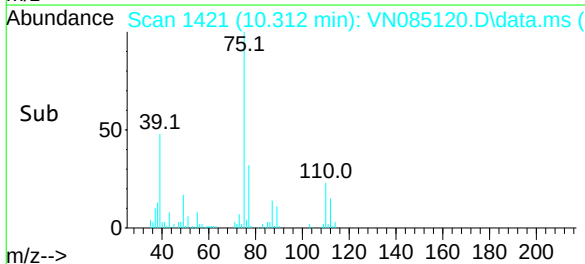
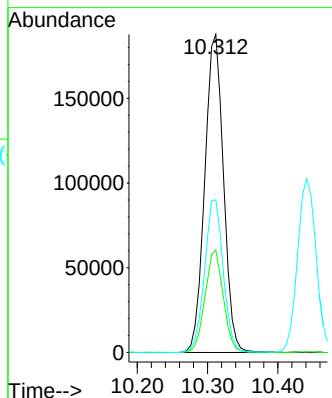
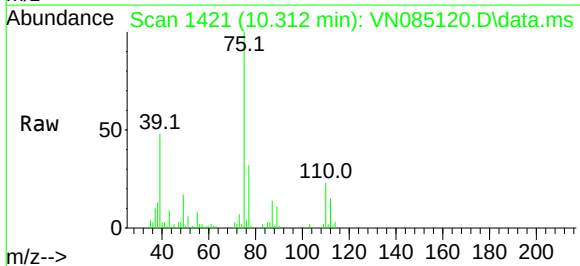
#49
cis-1,3-Dichloropropene
Concen: 104.212 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 75	Resp: 347791
Ion Ratio	Lower Upper
75 100	
77 32.2	23.8 35.6
39 48.0	37.3 55.9

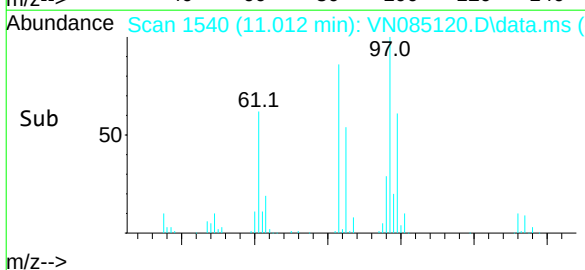
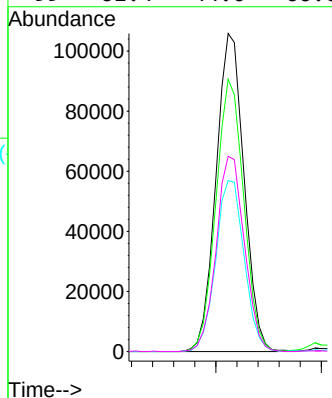
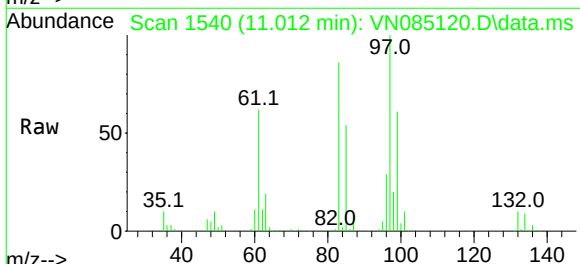
Manual Integrations
APPROVED

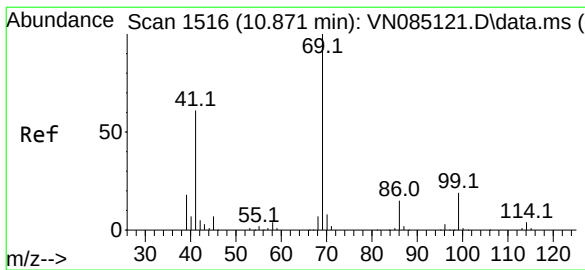
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#50
1,1,2-Trichloroethane
Concen: 99.153 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 97	Resp: 195188
Ion Ratio	Lower Upper
97 100	
83 85.6	65.8 98.8
85 53.8	40.8 61.2
99 61.4	44.0 66.0





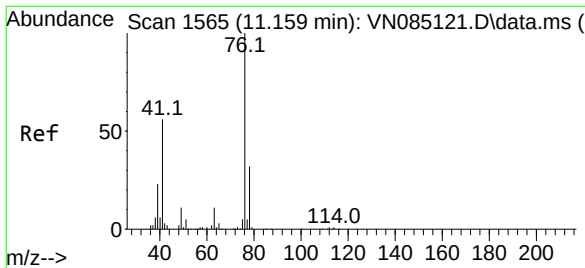
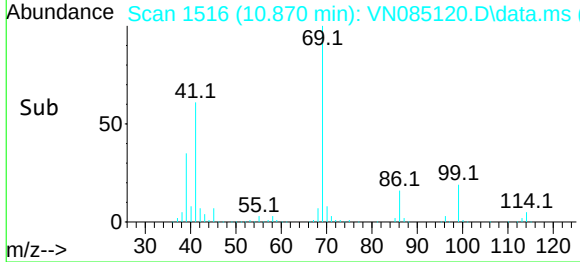
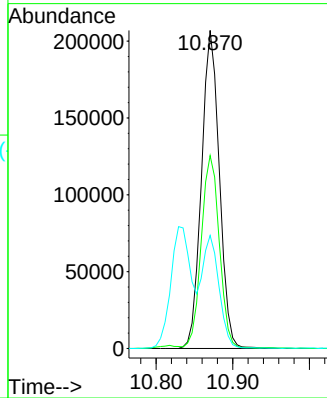
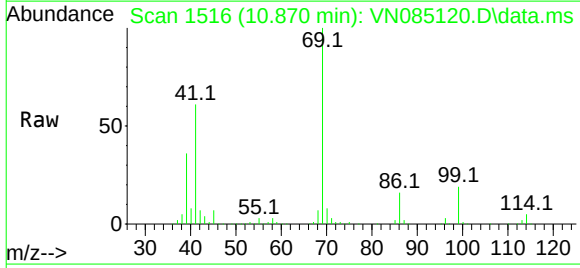
#51
Ethyl methacrylate
Concen: 112.054 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:	69	Resp:	335501
Ion	Ratio	Lower	Upper
69	100		
41	60.5	32.1	96.3
39	35.4	18.8	56.4

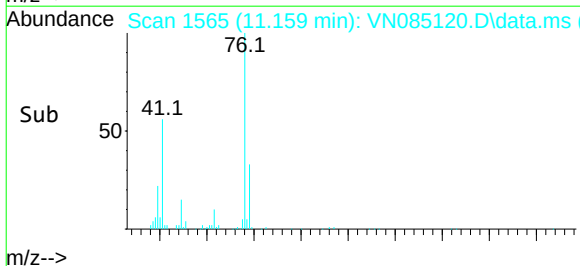
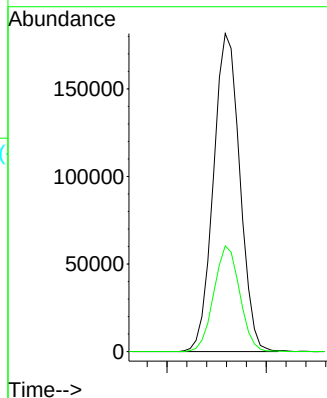
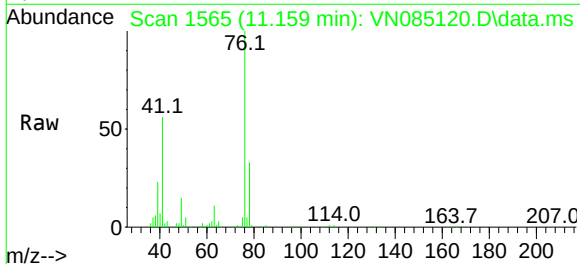
Manual Integrations
APPROVED

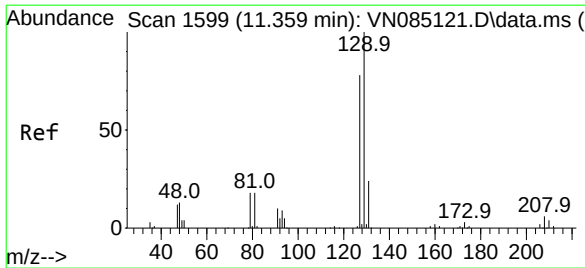
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#52
1,3-Dichloropropane
Concen: 101.938 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:	76	Resp:	335834
Ion	Ratio	Lower	Upper
76	100		
78	32.6	0.0	65.6





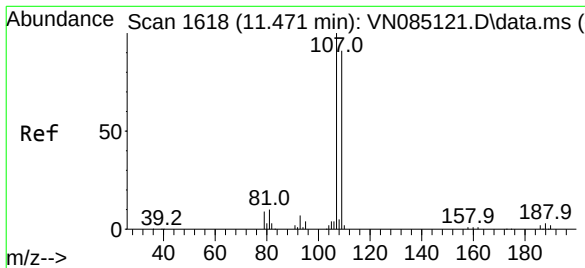
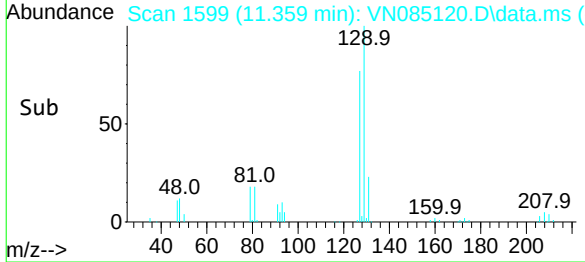
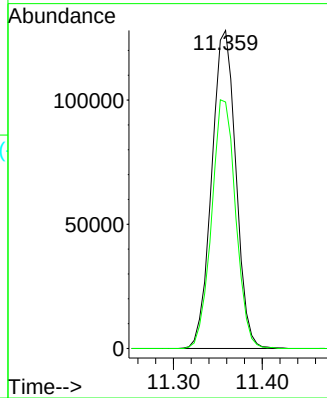
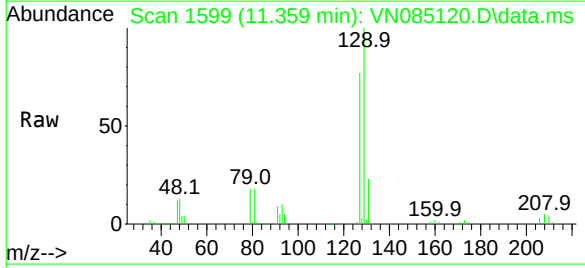
#53
Dibromochloromethane
Concen: 100.988 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:129 Resp: 242265
Ion Ratio Lower Upper
129 100
127 77.7 37.3 111.9

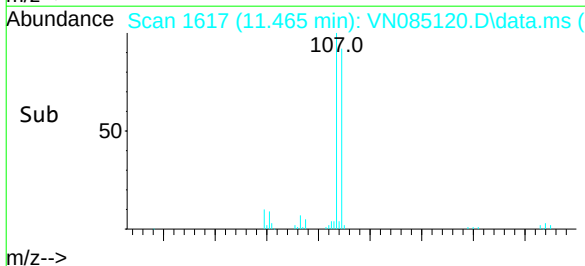
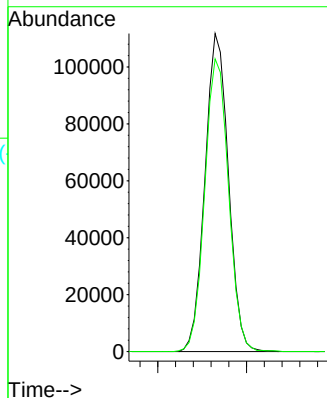
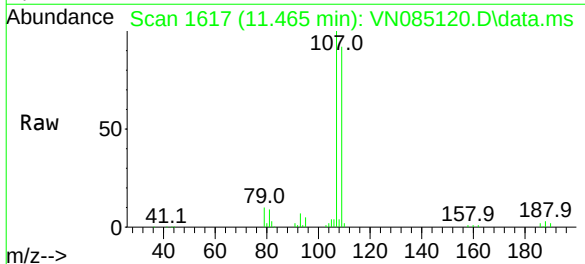
Manual Integrations
APPROVED

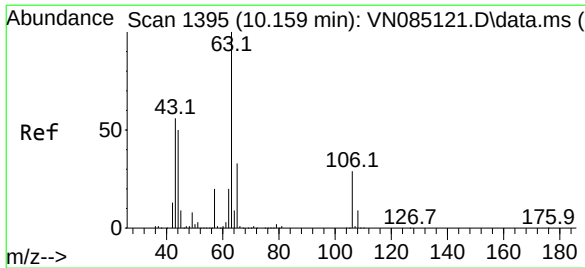
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#54
1,2-Dibromoethane
Concen: 103.531 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

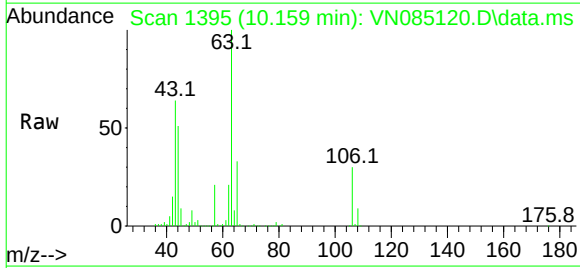
Tgt Ion:107 Resp: 205342
Ion Ratio Lower Upper
107 100
109 93.3 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 564.533 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

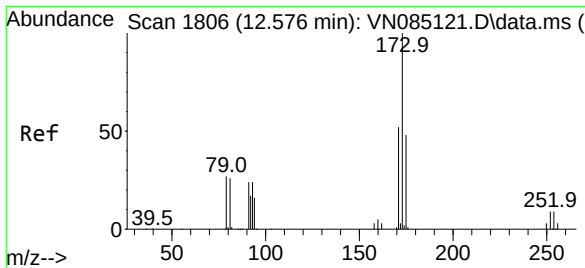
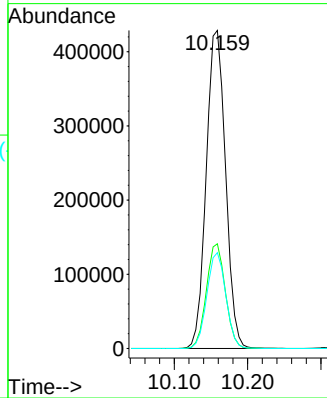
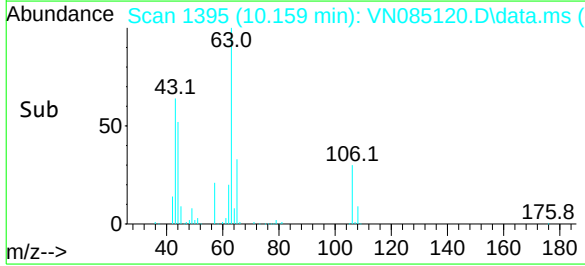
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion: 63 Resp: 785193
Ion Ratio Lower Upper
63 100
65 32.2 25.9 38.9
106 29.6 23.5 35.3

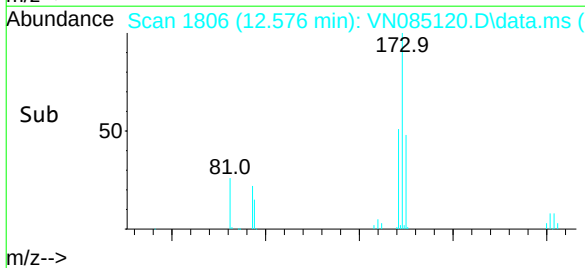
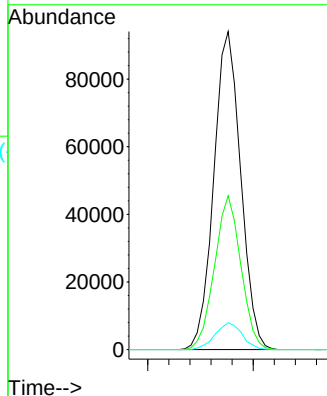
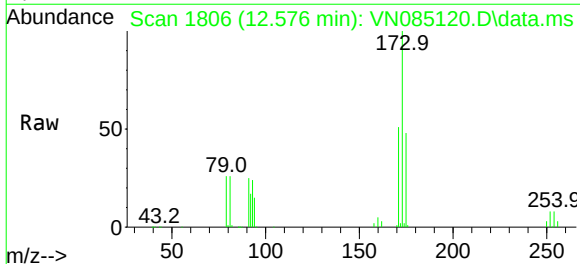
Manual Integrations
APPROVED

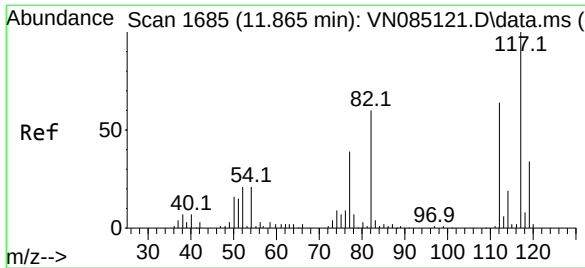
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#56
Bromoform
Concen: 103.616 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:173 Resp: 166661
Ion Ratio Lower Upper
173 100
175 47.4 40.2 60.2
254 8.5 6.2 9.4





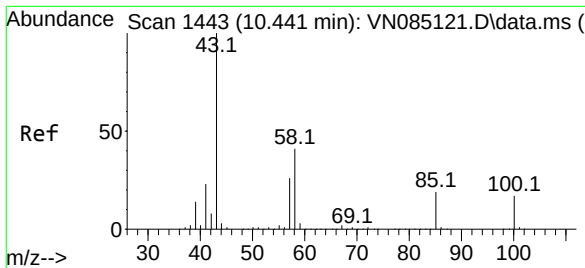
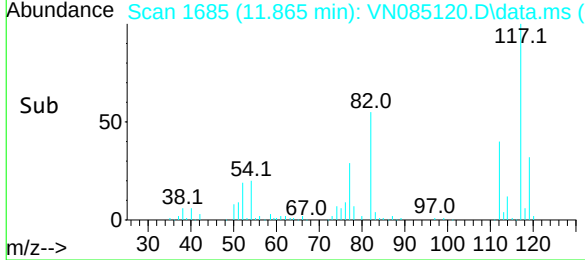
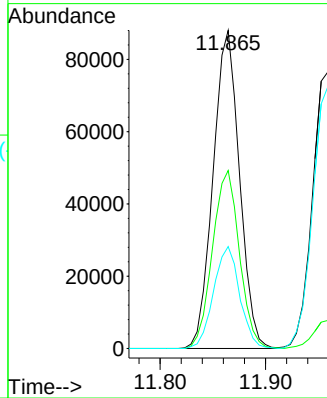
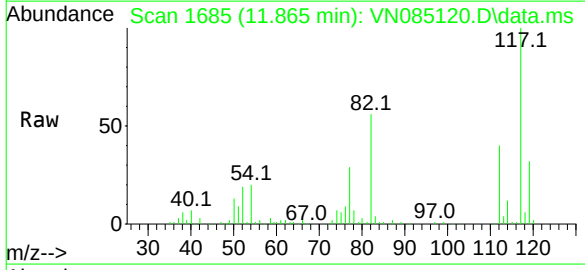
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 153060
Ion Ratio Lower Upper
117 100
82 57.1 44.2 66.4
119 31.7 25.4 38.2

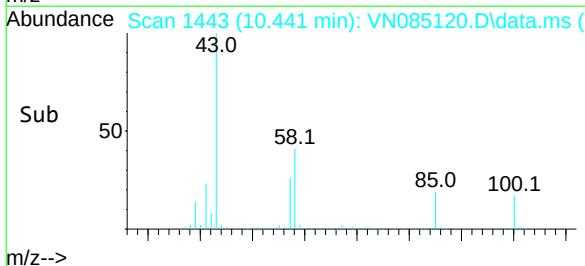
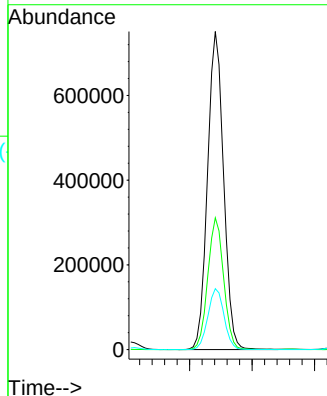
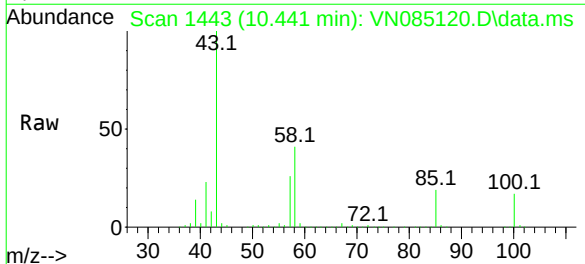
Manual Integrations
APPROVED

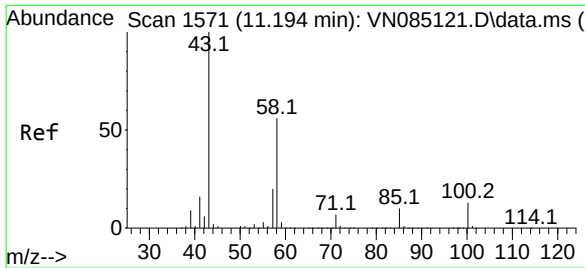
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#58
4-Methyl-2-Pentanone
Concen: 535.524 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

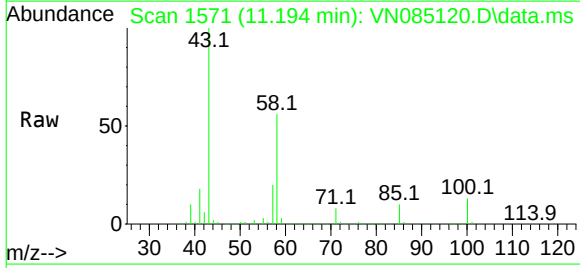
Tgt Ion: 43 Resp: 1337734
Ion Ratio Lower Upper
43 100
58 40.9 31.6 47.4
85 19.3 15.0 22.6





#59
2-Hexanone
Concen: 542.184 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

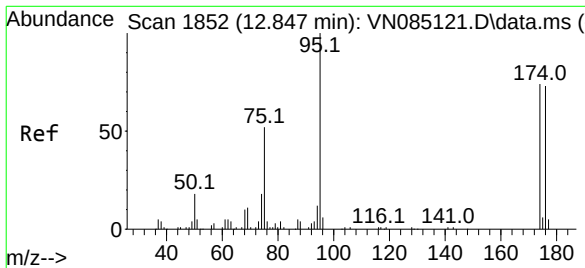
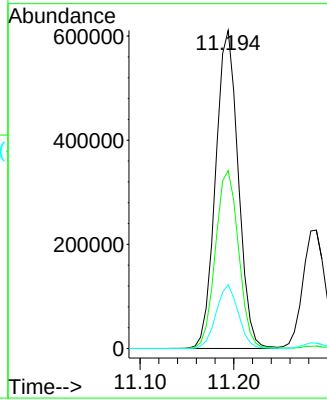
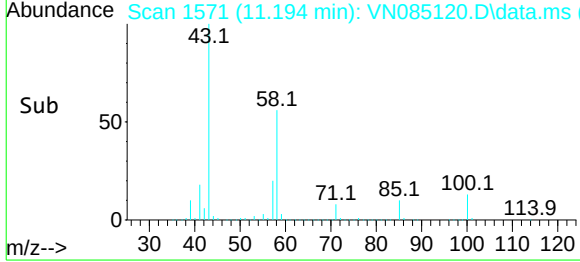
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



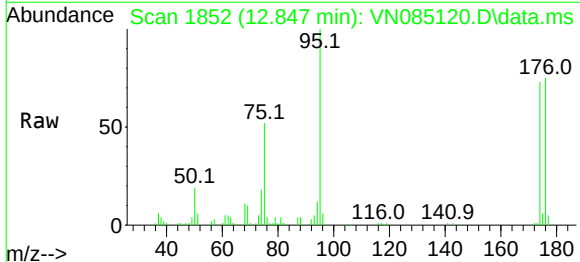
Tgt Ion: 43 Resp: 1026218
Ion Ratio Lower Upper
43 100
58 57.0 43.6 65.4
57 19.7 15.4 23.0

Manual Integrations
APPROVED

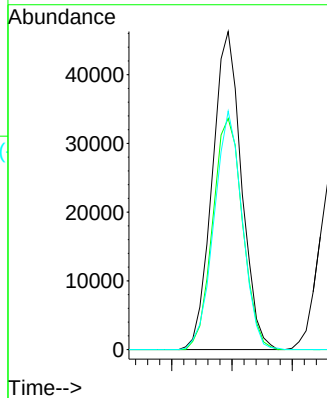
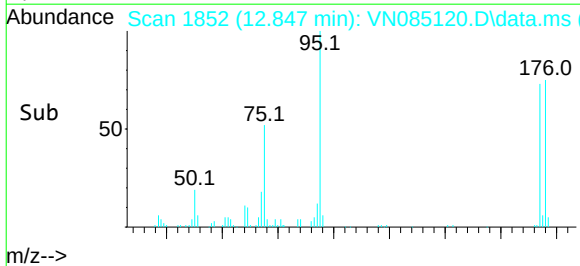
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

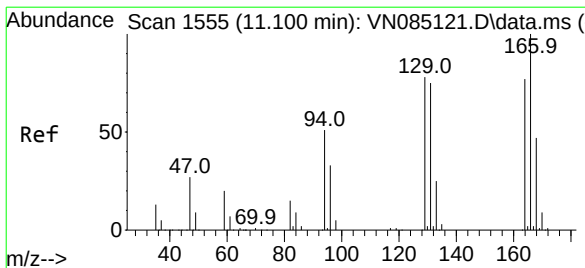


#60
4-Bromofluorobenzene
Concen: 30.768 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13



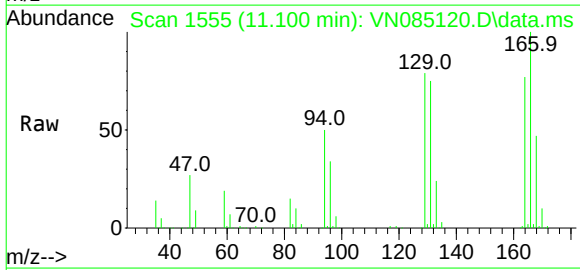
Tgt Ion: 95 Resp: 77922
Ion Ratio Lower Upper
95 100
174 74.3 60.3 90.5
176 72.3 57.4 86.0





#61
Tetrachloroethene
Concen: 98.693 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

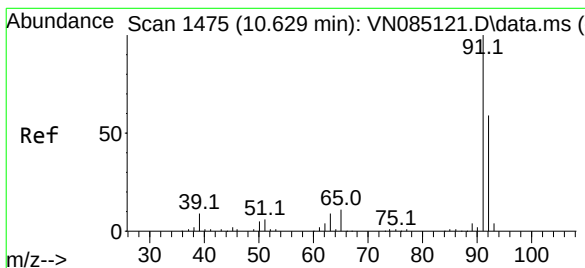
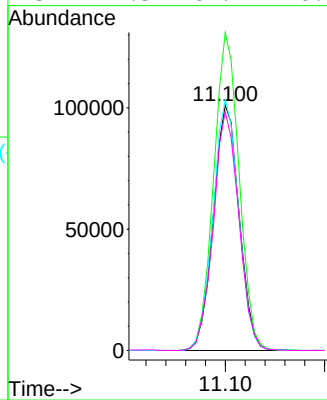
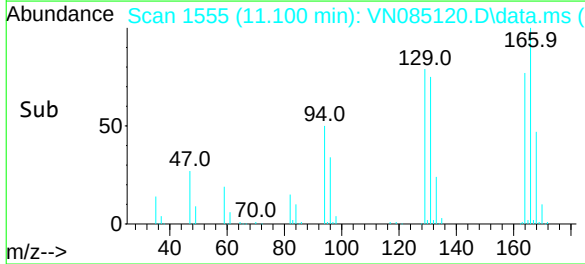
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:164 Resp: 182933
Ion Ratio Lower Upper
164 100
166 129.7 103.8 155.8
129 102.4 84.2 126.4
131 97.3 84.1 126.1

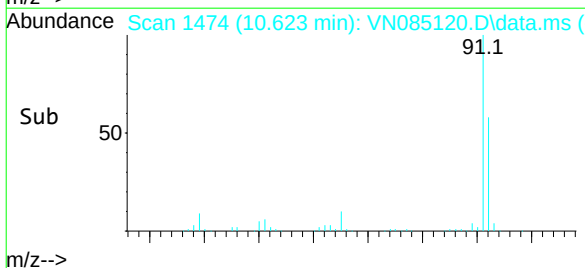
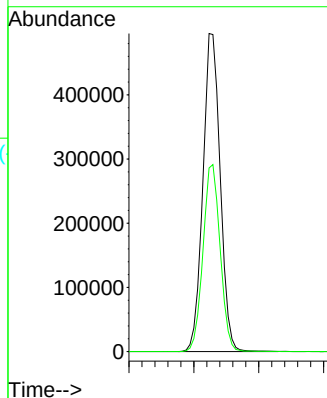
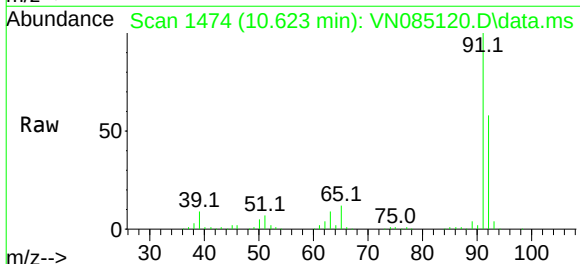
Manual Integrations
APPROVED

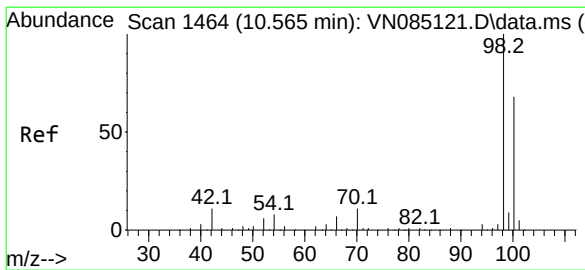
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#62
Toluene
Concen: 102.798 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 91 Resp: 917622
Ion Ratio Lower Upper
91 100
92 58.2 46.5 69.7





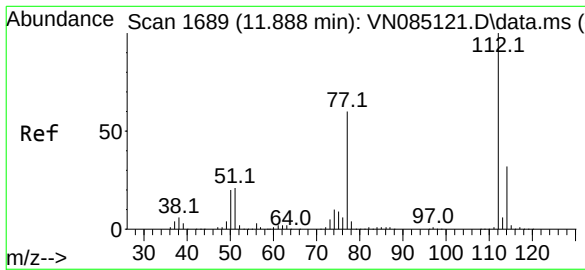
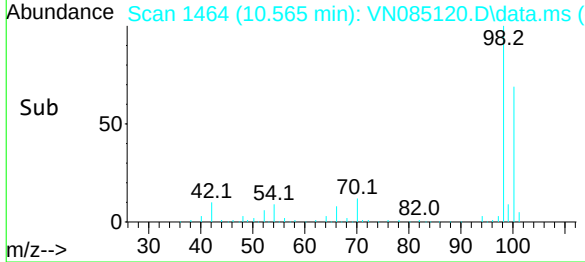
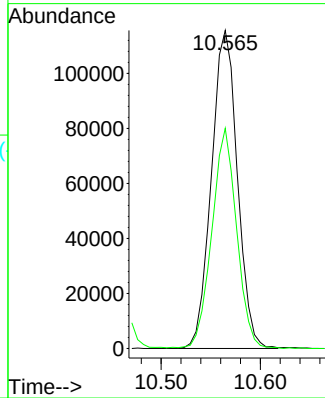
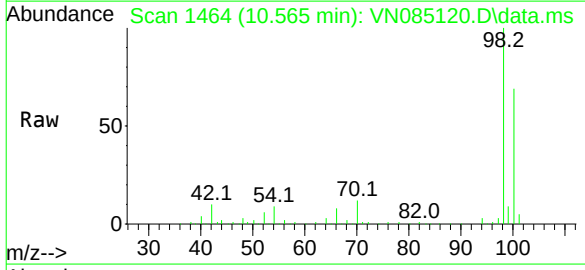
#63
Toluene-d8
Concen: 29.250 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 98 Resp: 210008
Ion Ratio Lower Upper
98 100
100 65.9 52.0 78.0

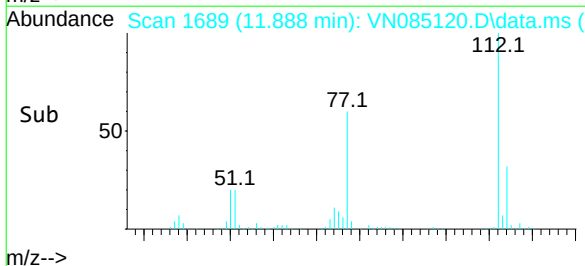
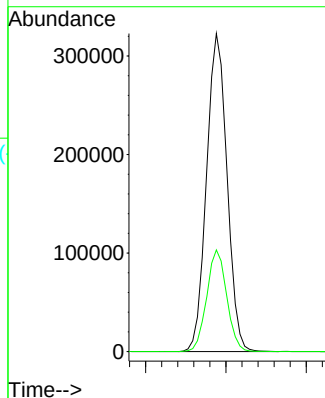
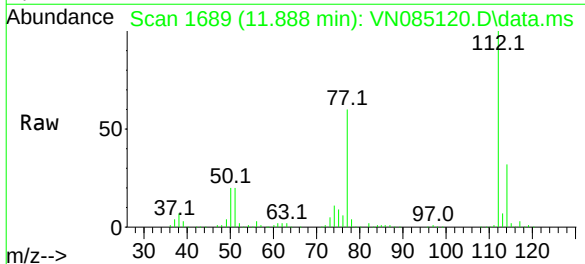
Manual Integrations
APPROVED

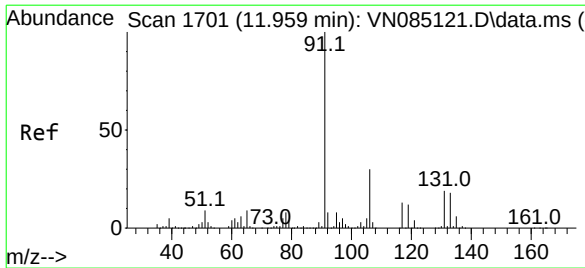
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#64
Chlorobenzene
Concen: 103.744 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

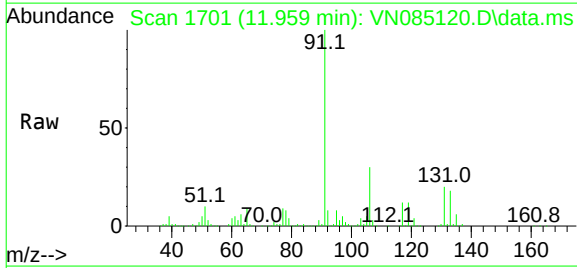
Tgt Ion:112 Resp: 571760
Ion Ratio Lower Upper
112 100
114 32.0 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 102.429 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

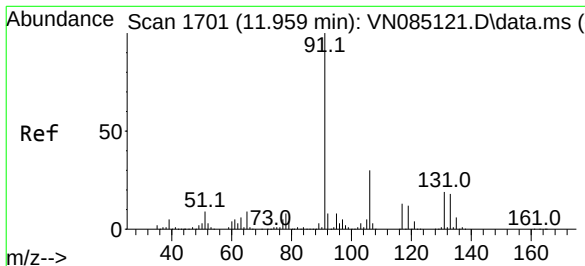
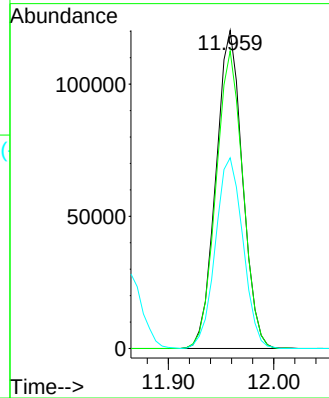
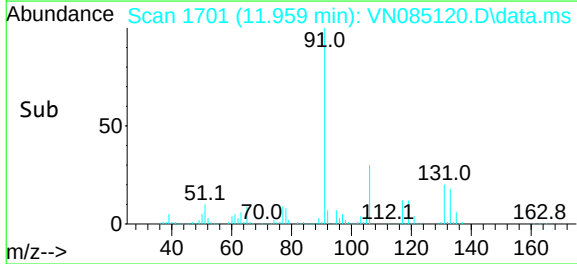
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion:131 Resp: 210736
Ion Ratio Lower Upper
131 100
133 94.6 0.0 194.0
119 62.2 0.0 131.8

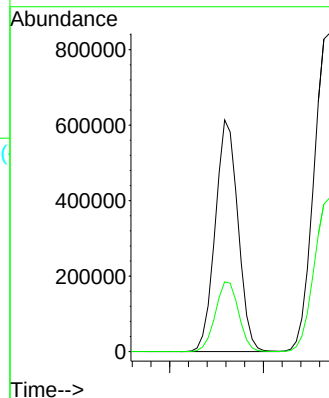
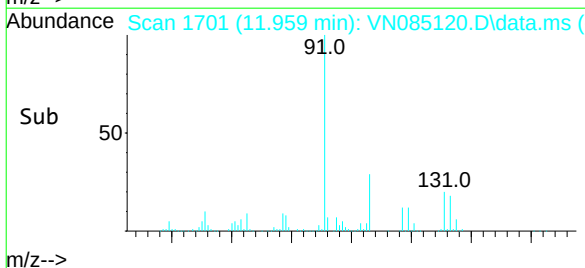
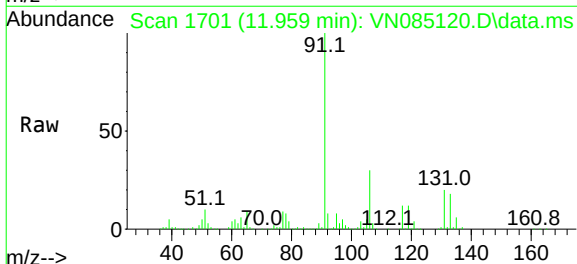
Manual Integrations
APPROVED

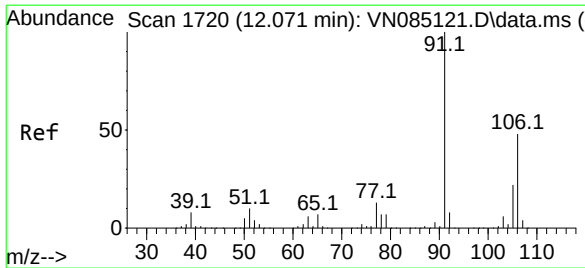
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#66
Ethyl Benzene
Concen: 109.440 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 91 Resp: 1036629
Ion Ratio Lower Upper
91 100
106 30.1 23.1 34.7





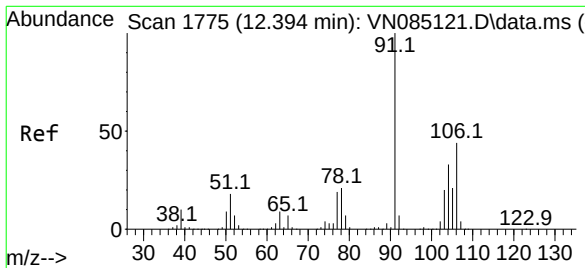
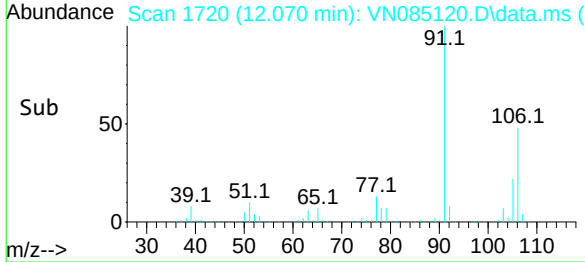
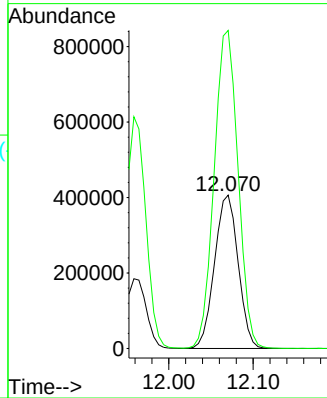
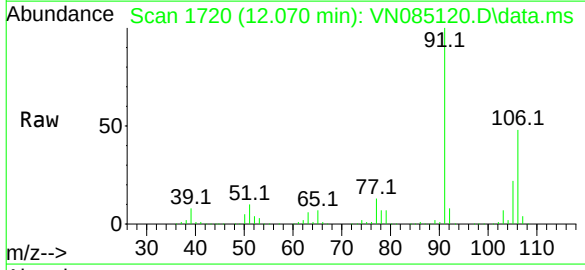
#67
m/p-Xylenes
Concen: 217.173 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 791201
Ion Ratio Lower Upper
106 100
91 209.3 165.0 247.4

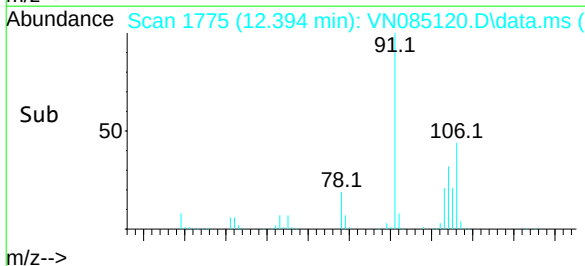
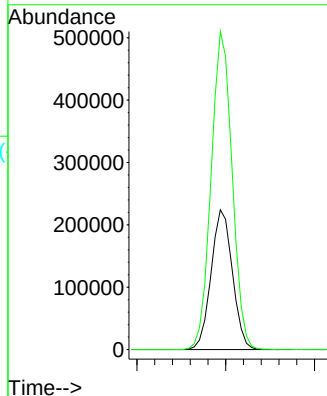
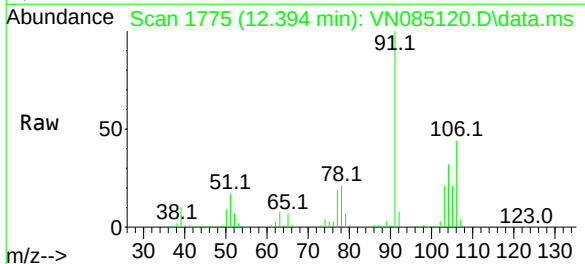
Manual Integrations
APPROVED

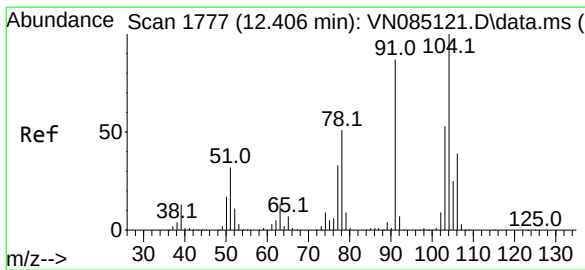
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#68
o-Xylene
Concen: 109.449 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:106 Resp: 374478
Ion Ratio Lower Upper
106 100
91 224.3 112.1 336.4





#69

Styrene

Concen: 111.644 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

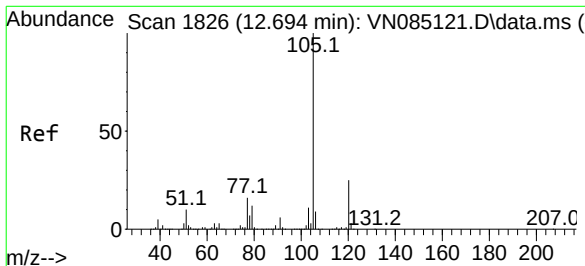
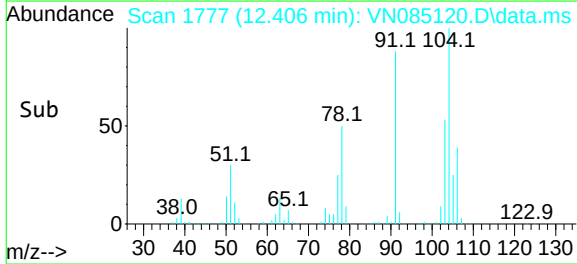
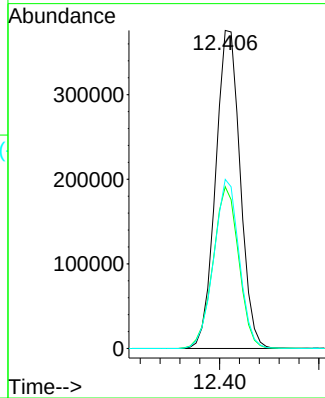
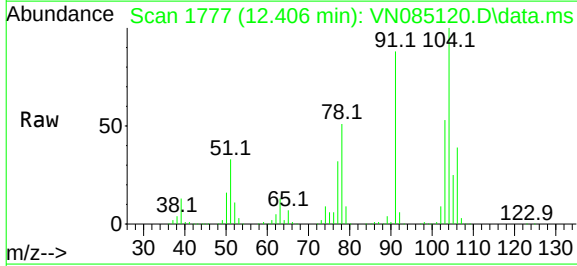
VSTDICC100

Tgt Ion:104	Resp: 648187
Ion Ratio	Lower Upper
104 100	
78 52.9	42.3 63.5
103 54.8	44.4 66.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#70

Isopropylbenzene

Concen: 111.721 ug/l

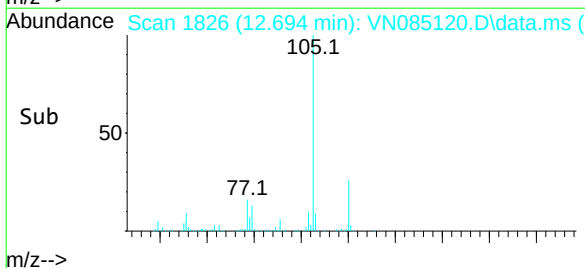
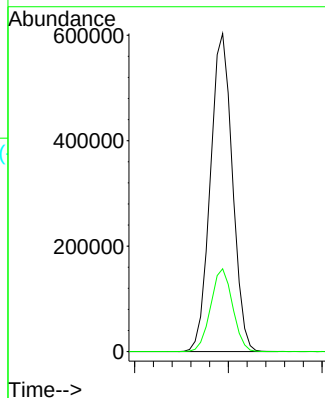
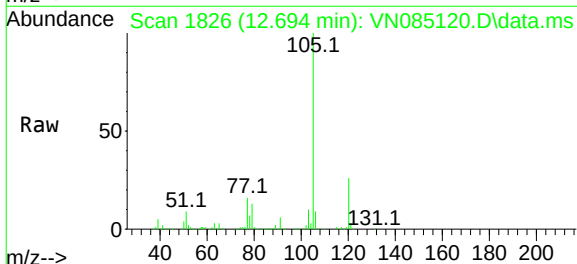
RT: 12.694 min Scan# 1826

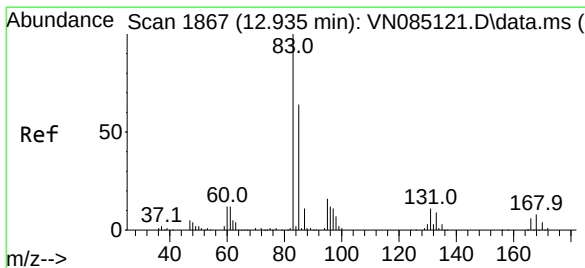
Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Tgt Ion:105	Resp: 985915
Ion Ratio	Lower Upper
105 100	
120 25.9	18.3 33.9





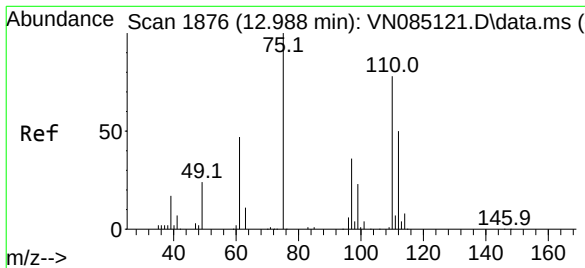
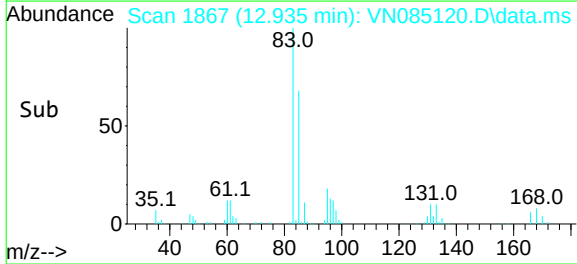
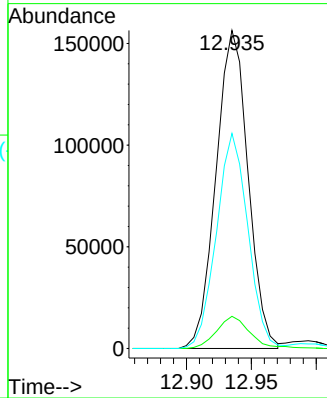
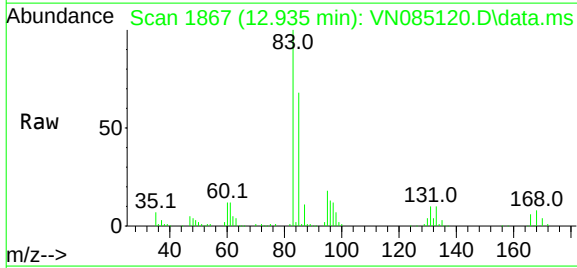
#71
1,1,2,2-Tetrachloroethane
Concen: 99.877 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	66.6	31.1	93.5

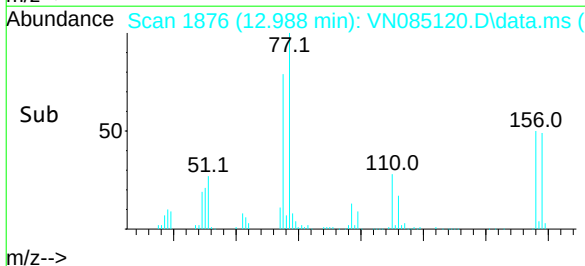
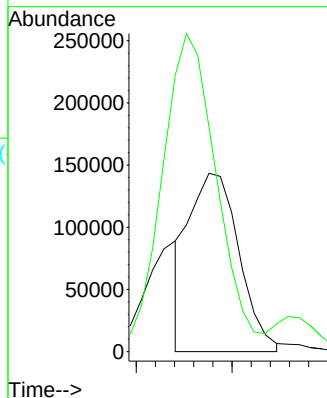
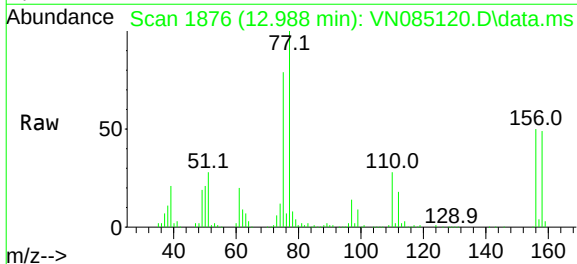
Manual Integrations
APPROVED

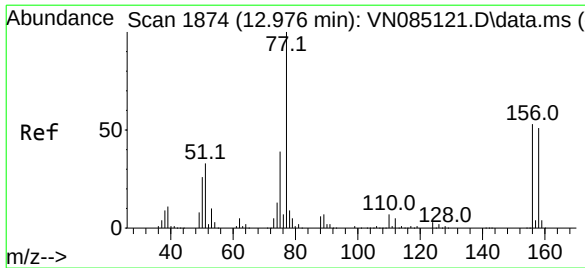
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#72
1,2,3-Trichloropropane
Concen: 98.123 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion	Ratio	Lower	Upper
75	100		
77	195.4	0.0	339.0





#73

Bromobenzene

Concen: 106.648 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

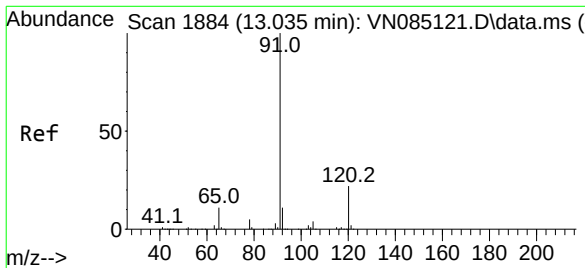
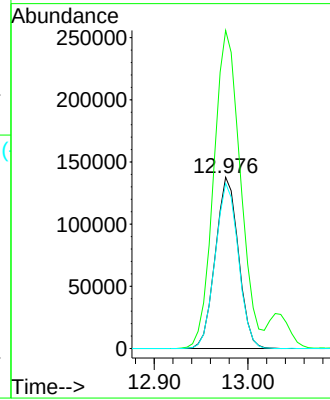
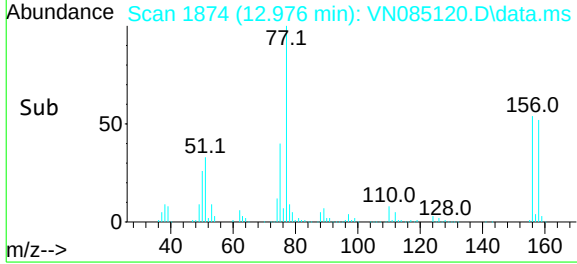
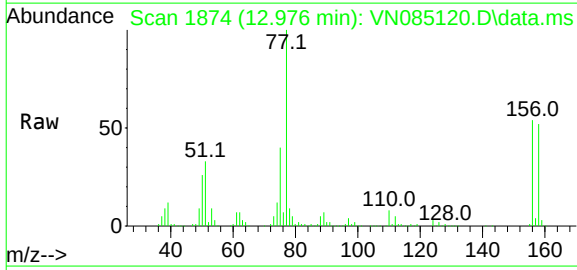
VSTDIC100

Tgt Ion:	156	Resp:	235738
Ion	Ratio	Lower	Upper
156	100		
77	215.8	0.0	430.4
158	97.0	0.0	195.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#74

n-propylbenzene

Concen: 109.952 ug/l

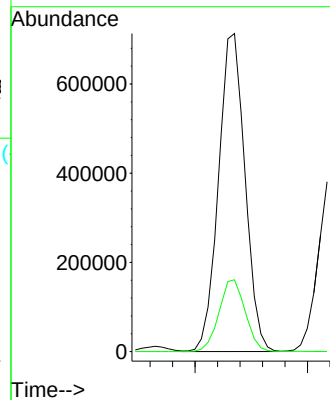
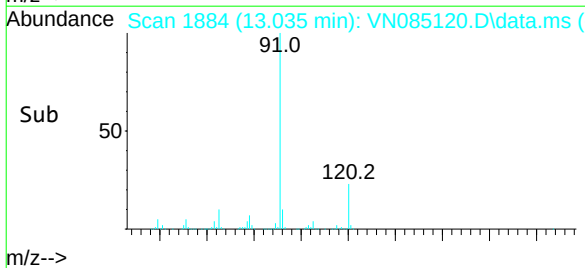
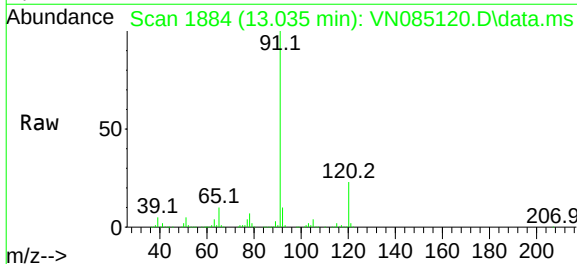
RT: 13.035 min Scan# 1884

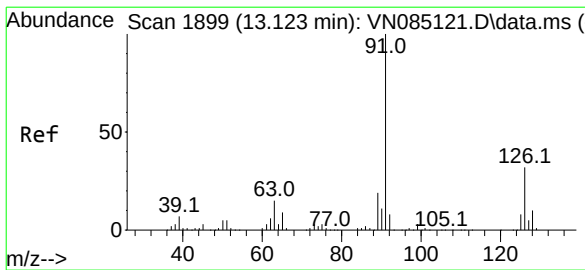
Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Tgt Ion:	91	Resp:	1166509
Ion	Ratio	Lower	Upper
91	100		
120	22.3	0.0	44.0





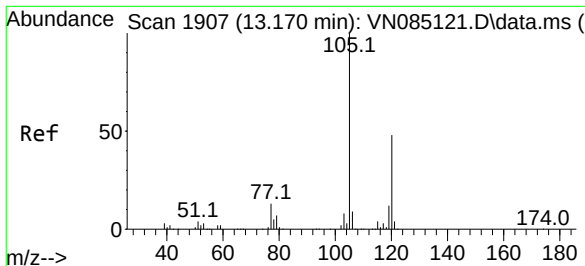
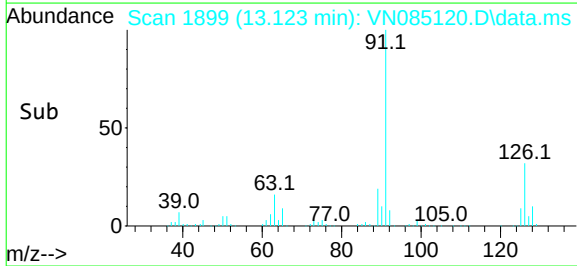
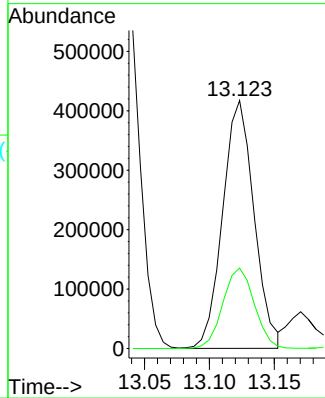
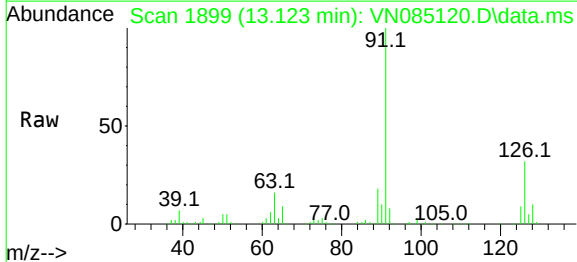
#75
2-Chlorotoluene
Concen: 107.179 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 703050
Ion Ratio Lower Upper
91 100
126 32.5 0.0 64.2

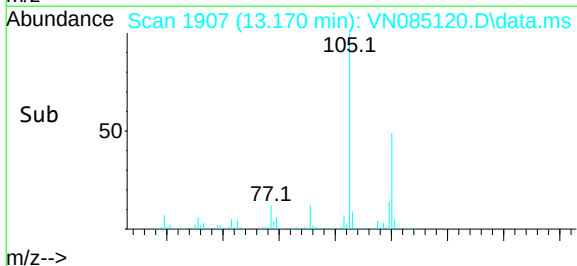
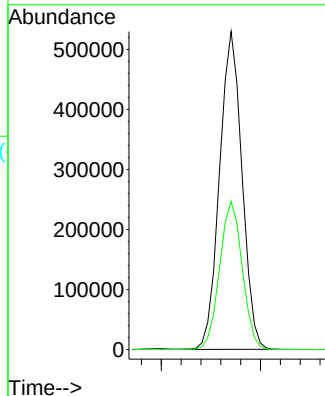
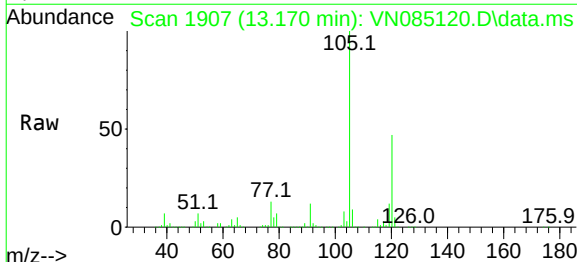
Manual Integrations
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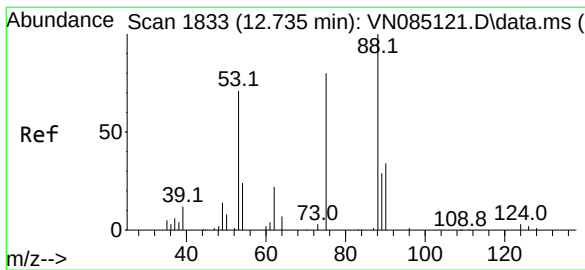
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#76
1,3,5-Trimethylbenzene
Concen: 110.018 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

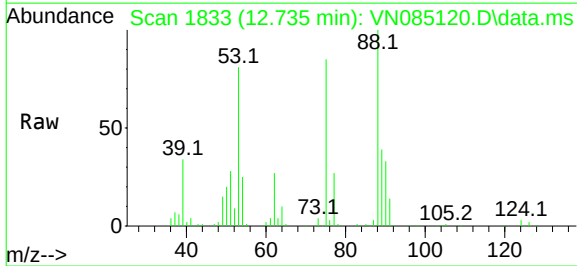
Tgt Ion:105 Resp: 831794
Ion Ratio Lower Upper
105 100
120 47.0 0.0 94.4





#77
t-1,4-Dichloro-2-butene
Concen: 111.976 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

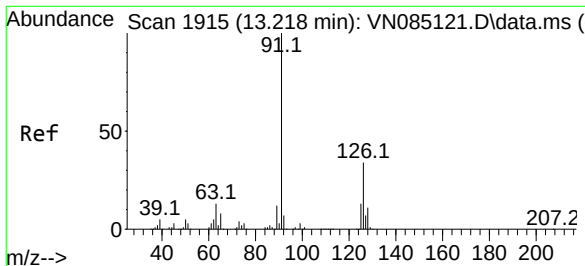
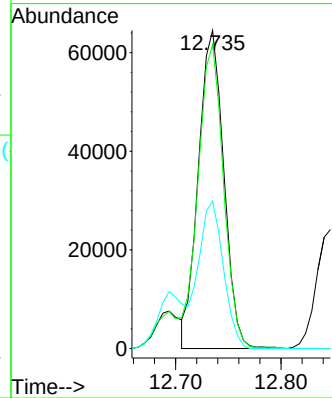
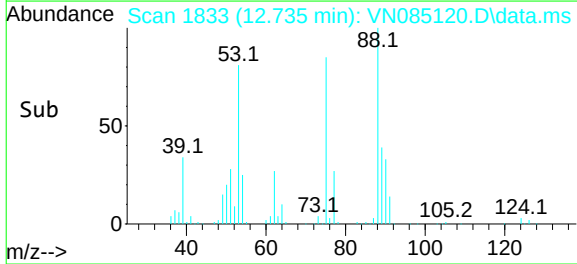
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 107962
Ion Ratio Lower Upper
75 100
53 95.2 49.1 147.3
89 46.3 22.9 68.5

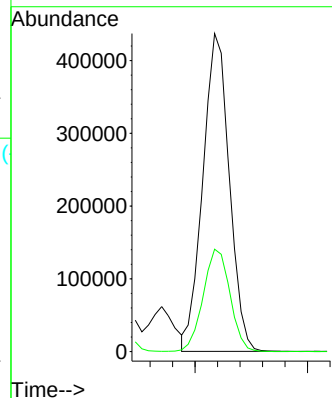
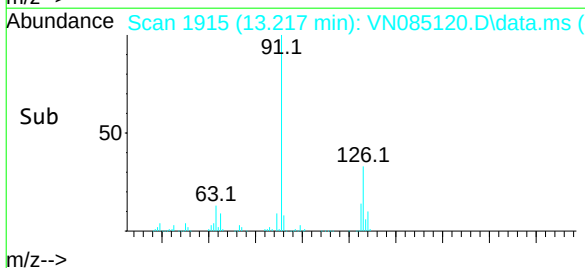
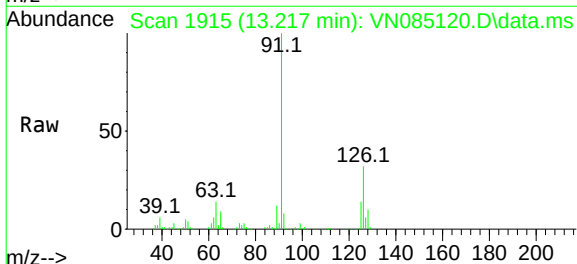
Manual Integrations
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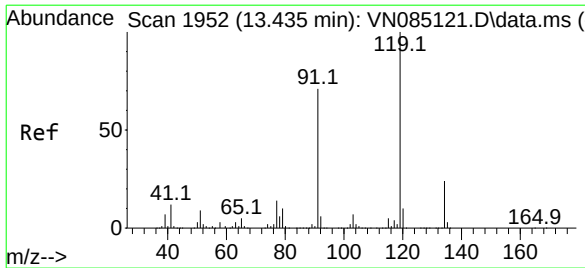
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#78
4-Chlorotoluene
Concen: 107.197 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 91 Resp: 713716
Ion Ratio Lower Upper
91 100
126 32.7 0.0 64.4





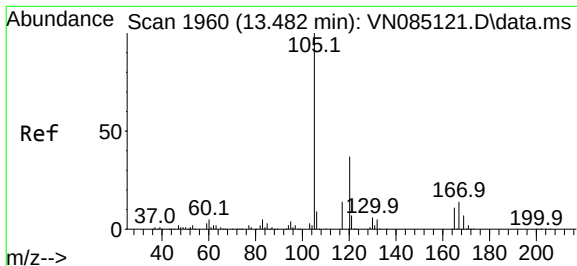
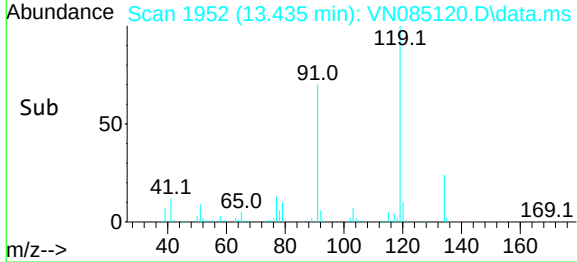
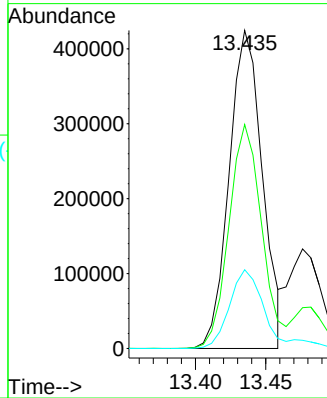
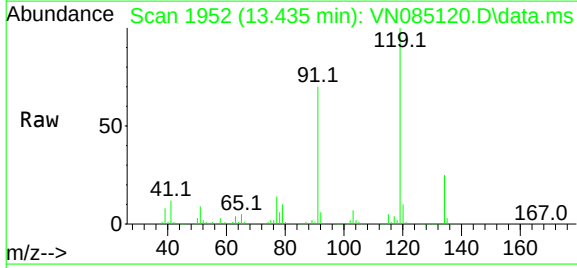
#79
tert-butylbenzene
Concen: 112.381 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 697873
Ion Ratio Lower Upper
119 100
91 69.9 0.0 139.2
134 24.6 0.0 48.0

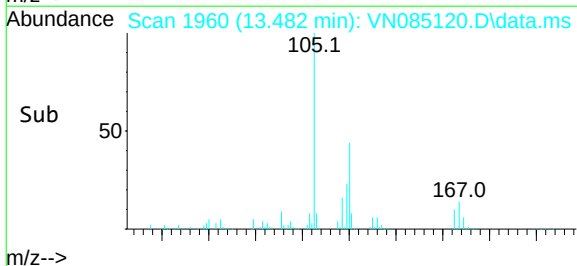
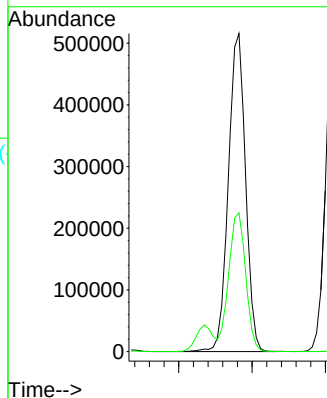
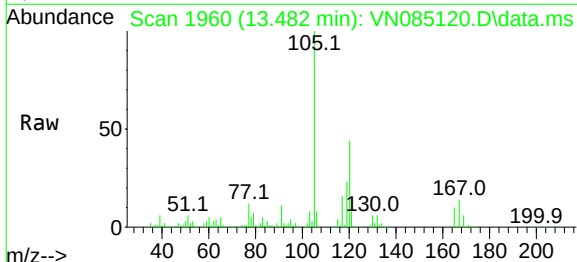
Manual Integrations
APPROVED

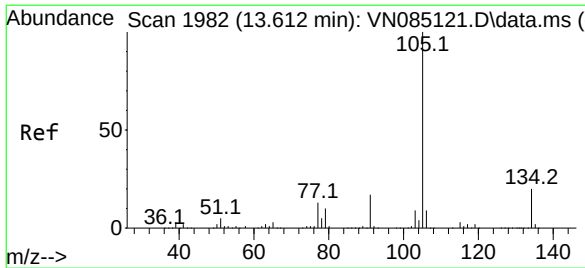
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#80
1,2,4-Trimethylbenzene
Concen: 112.327 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:105 Resp: 838873
Ion Ratio Lower Upper
105 100
120 43.3 0.0 87.4





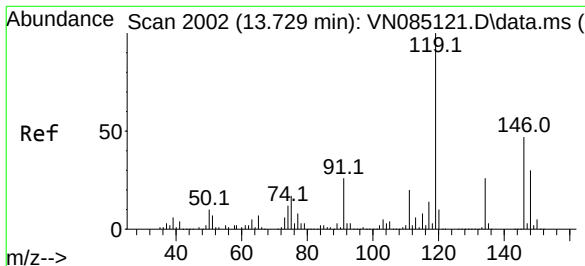
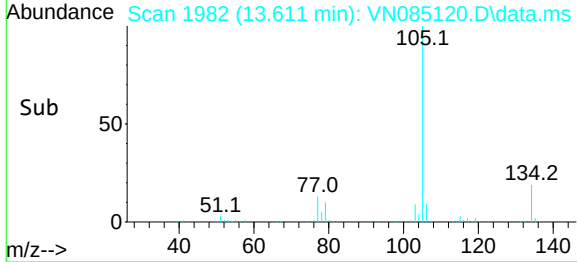
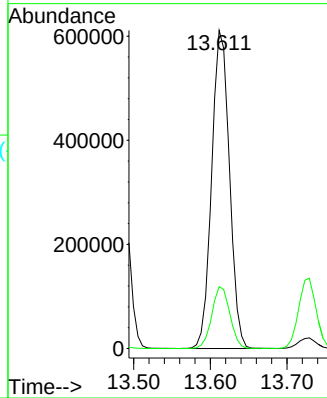
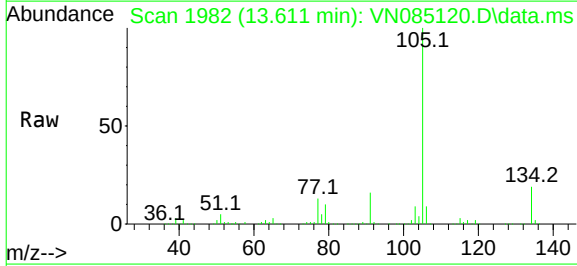
#81
sec-Butylbenzene
Concen: 111.460 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 983338
Ion Ratio Lower Upper
105 100
134 19.7 0.0 38.0

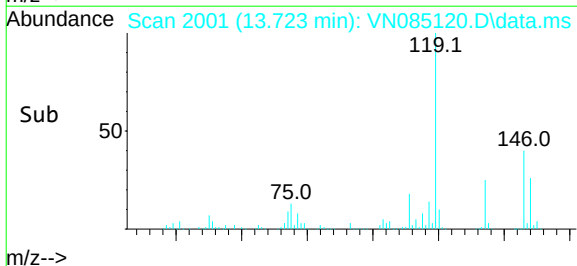
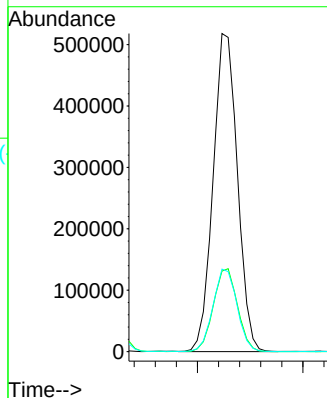
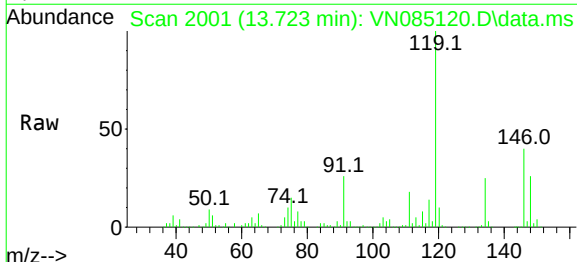
Manual Integrations
APPROVED

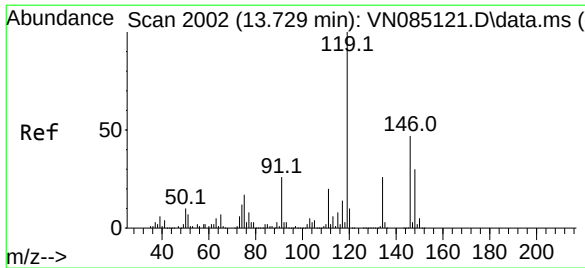
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#82
p-Isopropyltoluene
Concen: 113.406 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

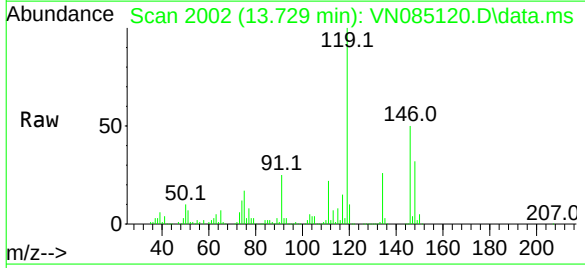
Tgt Ion:119 Resp: 829472
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 25.7 0.0 50.4





#83
1,3-Dichlorobenzene
Concen: 105.881 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

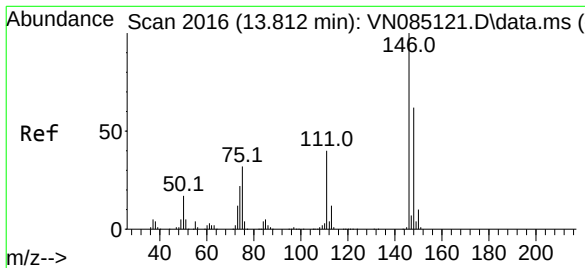
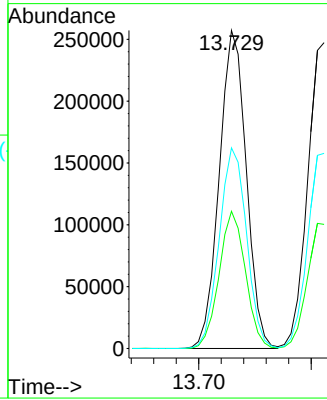
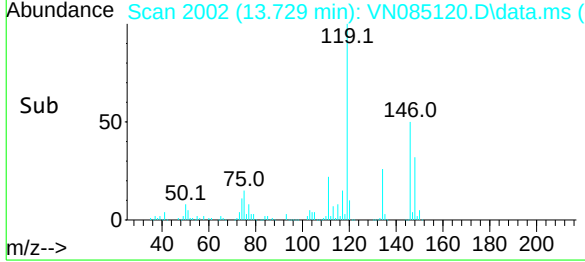
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



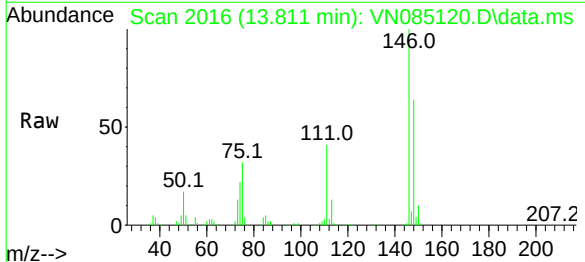
Tgt Ion:146 Resp: 429389
Ion Ratio Lower Upper
146 100
111 42.1 21.1 63.3
148 64.0 31.8 95.3

Manual Integrations
APPROVED

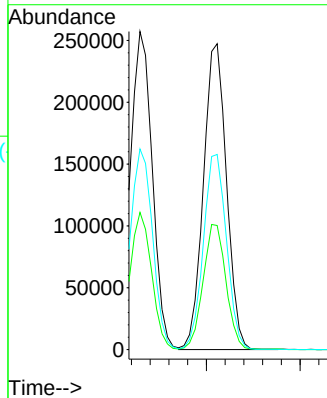
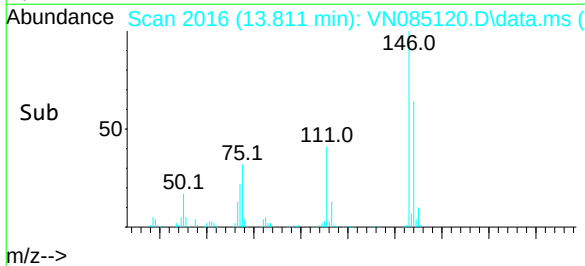
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

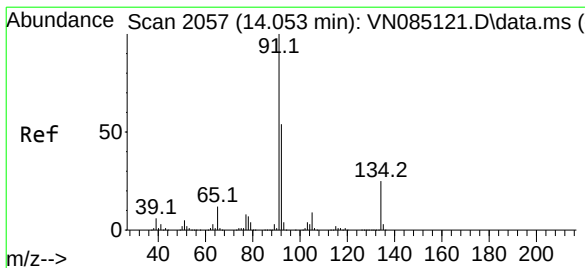


#84
1,4-Dichlorobenzene
Concen: 107.060 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13



Tgt Ion:146 Resp: 423137
Ion Ratio Lower Upper
146 100
111 40.6 20.1 60.3
148 64.2 31.6 94.7





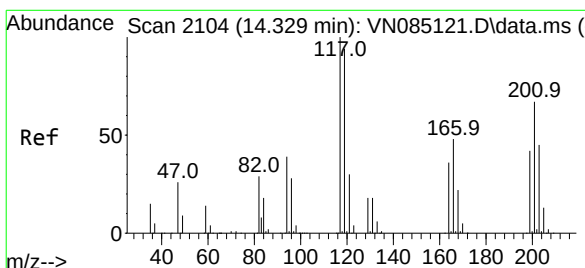
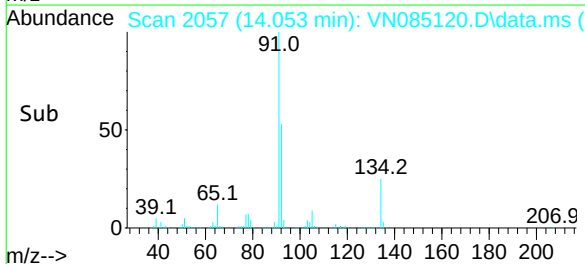
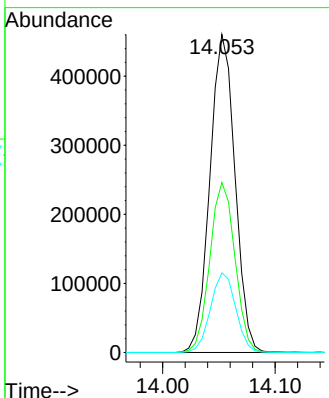
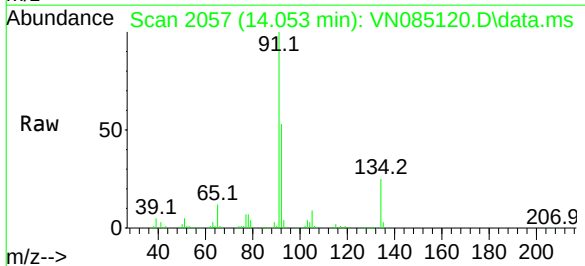
#85
n-Butylbenzene
Concen: 116.298 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 713519
Ion Ratio Lower Upper
91 100
92 53.5 0.0 104.0
134 25.2 0.0 49.2

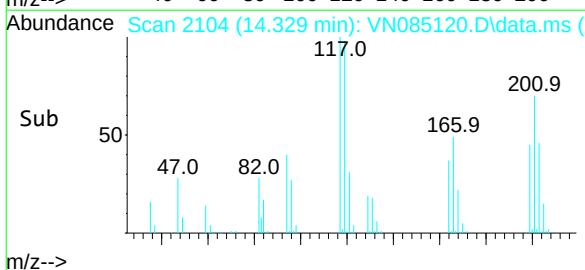
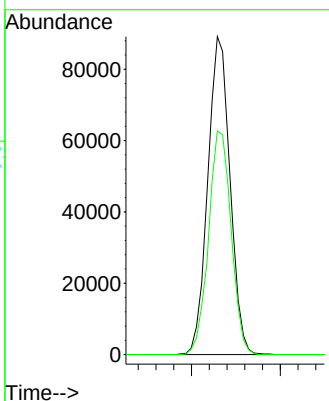
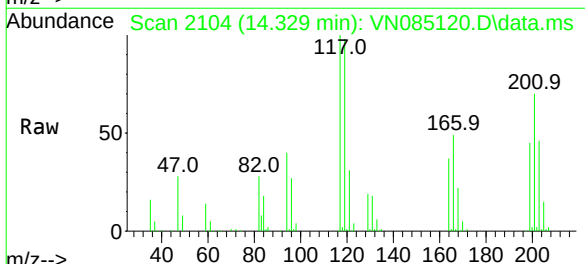
Manual Integrations
APPROVED

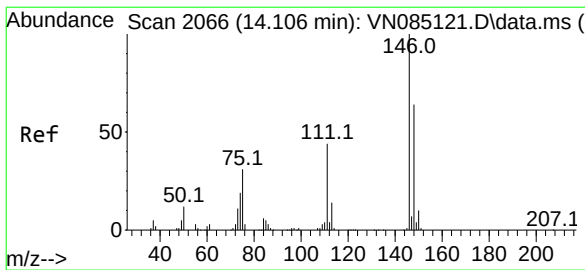
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#86
Hexachloroethane
Concen: 106.440 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:117 Resp: 154986
Ion Ratio Lower Upper
117 100
201 71.5 34.1 102.3





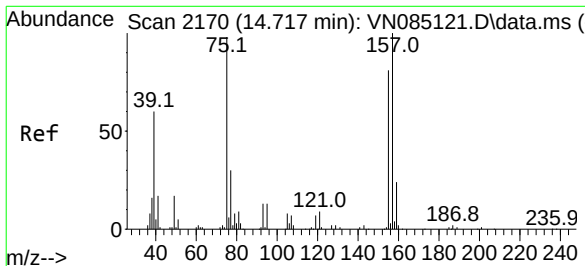
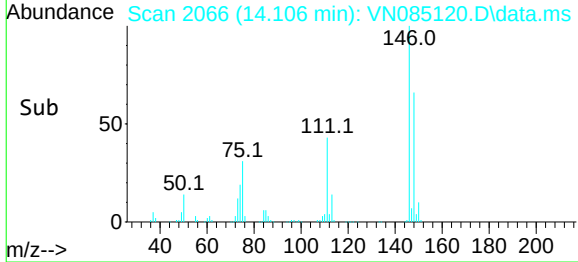
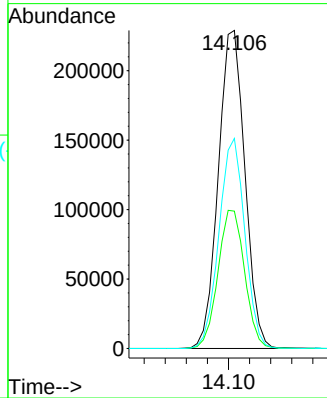
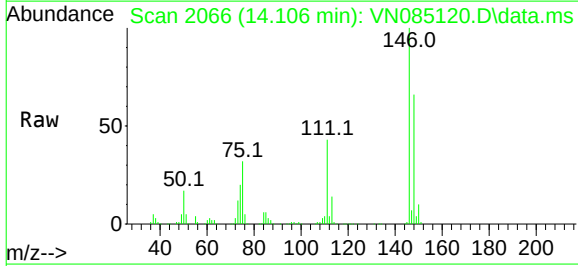
#87
1,2-Dichlorobenzene
Concen: 104.836 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 401301
Ion Ratio Lower Upper
146 100
111 43.6 21.9 65.7
148 64.3 32.4 97.0

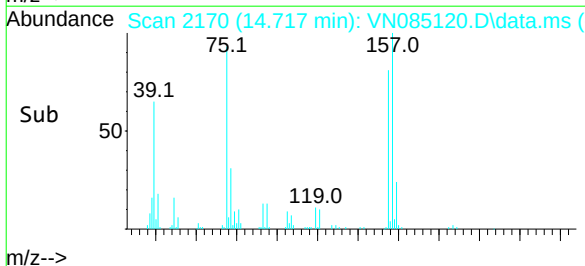
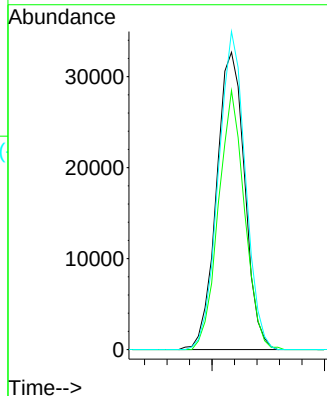
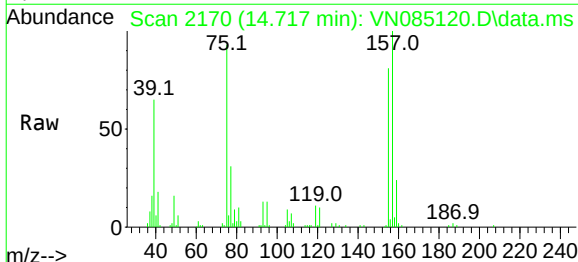
Manual Integrations
APPROVED

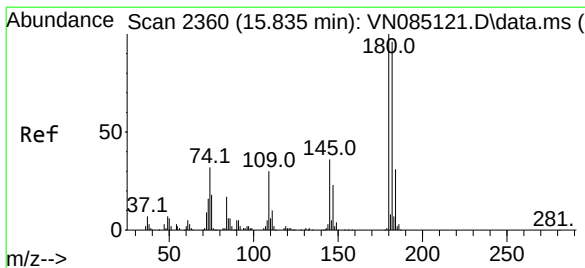
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 106.118 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 75 Resp: 56942
Ion Ratio Lower Upper
75 100
155 80.4 62.1 93.1
157 102.3 79.3 118.9





#89

1,2,4-Trichlorobenzene

Concen: 114.647 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085120.D

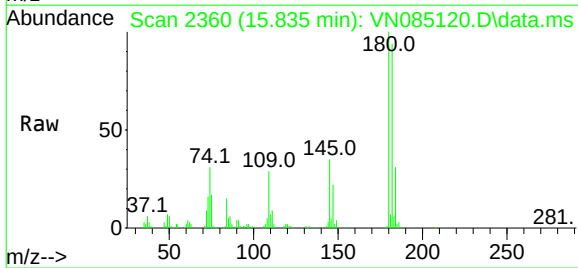
Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

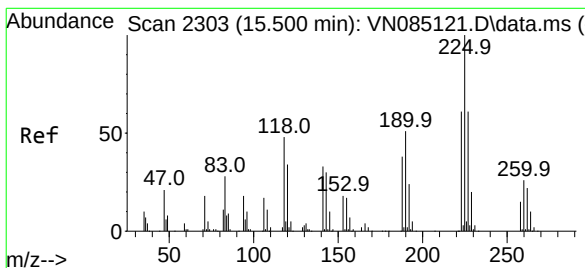
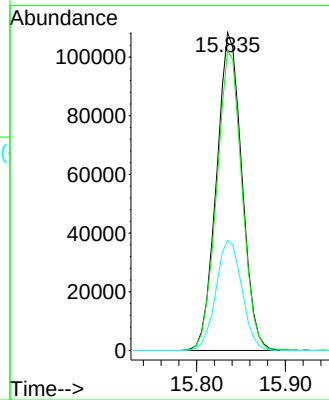
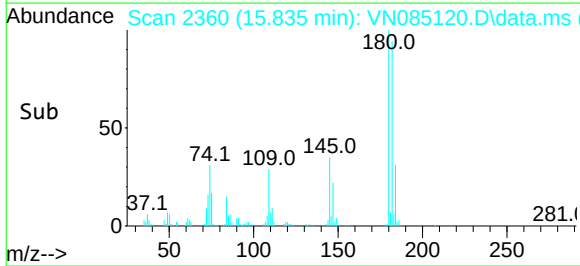


Tgt Ion:	180	Resp:	214927
Ion Ratio	Lower	Upper	
180	100		
182	94.0	74.0	111.0
145	35.4	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#90

Hexachlorobutadiene

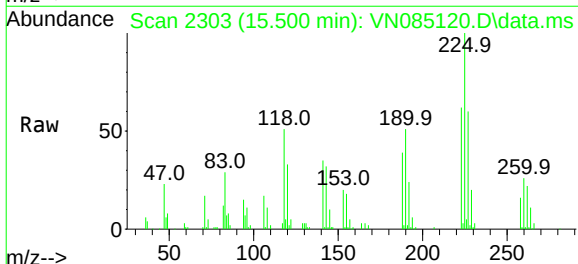
Concen: 102.912 ug/l

RT: 15.500 min Scan# 2303

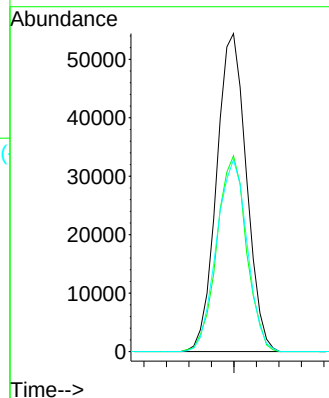
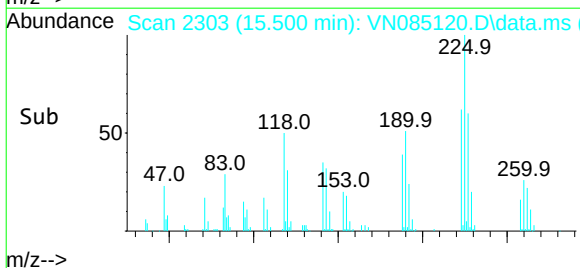
Delta R.T. -0.000 min

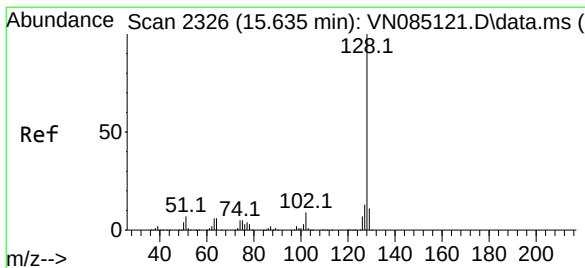
Lab File: VN085120.D

Acq: 06 Dec 2024 11:13



Tgt Ion:	225	Resp:	100252
Ion Ratio	Lower	Upper	
225	100		
223	61.1	0.0	121.8
227	61.9	0.0	126.8





#91

Naphthalene

Concen: 123.516 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

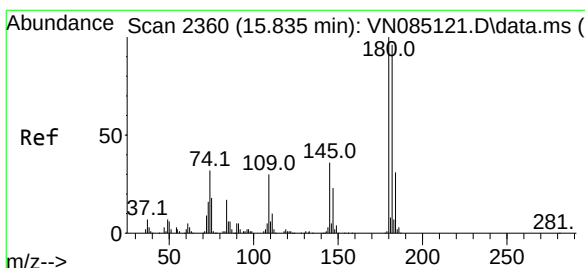
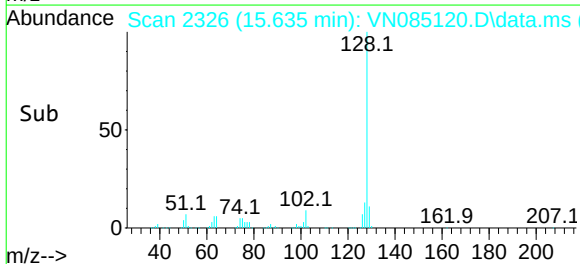
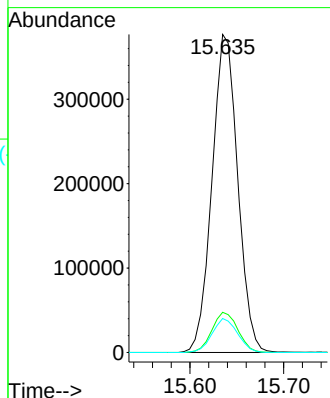
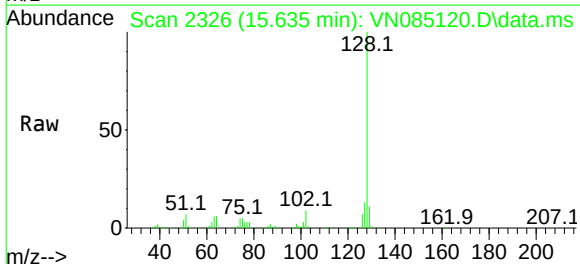
VSTDICC100

Tgt Ion:	128	Resp:	719387
Ion	Ratio	Lower	Upper
128	100		
127	12.8	11.0	16.4
129	10.6	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 114.647 ug/l

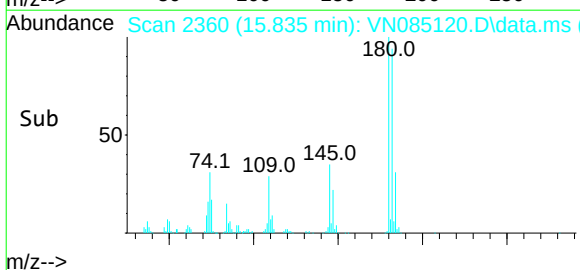
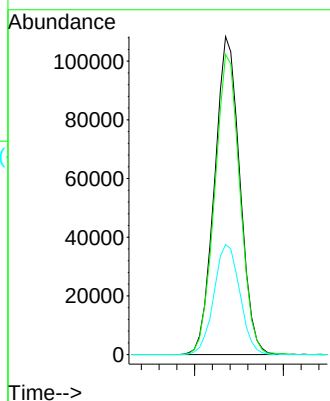
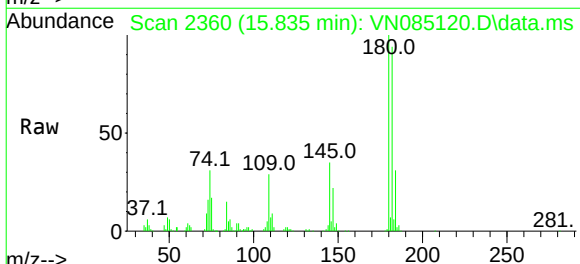
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Tgt Ion:	180	Resp:	214927
Ion	Ratio	Lower	Upper
180	100		
182	94.0	0.0	185.0
145	35.4	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085121.D
 Acq On : 06 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 22:31:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29869	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	165478	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	154258	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72104	30.424	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.400%			
60) 4-Bromofluorobenzene	12.847	95	77038	30.183	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.600%			
63) Toluene-d8	10.565	98	210929	29.150	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.167%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	382696	160.147	ug/l	100
3) Chloromethane	2.359	50	336891	159.276	ug/l	96
4) Vinyl Chloride	2.512	62	337908	156.192	ug/l	98
5) Bromomethane	2.930	94	203330	148.033	ug/l	96
6) Chloroethane	3.106	64	209222	157.410	ug/l	100
7) Trichlorofluoromethane	3.489	101	564698	159.461	ug/l	98
8) Diethyl Ether	3.959	74	189430	168.881	ug/l	98
9) 1,1,2-Trichlorotrifluoro...	4.371	101	311182	157.134	ug/l	98
10) 1,1-Dichloroethene	4.336	96	297605	163.607	ug/l	94
11) Methyl Iodide	4.589	142	437650	173.477	ug/l	96
12) Methyl Acetate	5.018	43	348950	162.608	ug/l	95
13) Acrolein	4.171	56	272433	873.598	ug/l	94
14) Acrylonitrile	5.712	53	742116	832.848	ug/l	97
15) Acetone	4.424	58	196952	815.641	ug/l	97
16) Carbon Disulfide	4.712	76	864628	159.023	ug/l	100
17) Allyl chloride	5.018	41	433507	166.552	ug/l	91
18) Methylene Chloride	5.271	84	313694	151.985	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	302760	160.130	ug/l	92
20) Diisopropyl ether	6.665	45	921058	161.244	ug/l	99
21) 1,1-Dichloroethane	6.565	63	551498	156.428	ug/l #	98
22) cis-1,2-Dichloroethene	7.483	96	353328	162.585	ug/l	99
23) tert-Butyl Alcohol	5.518	59	276979	866.490	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	971837m	171.143	ug/l	
25) Chloroform	7.965	83	569561	154.206	ug/l	96
26) Cyclohexane	8.253	56	483028	166.394	ug/l #	93
29) 1,1-Dichloropropene	8.371	75	418388	156.686	ug/l	99
30) 2-Butanone	7.477	43	967143	789.269	ug/l	99
31) 2,2-Dichloropropane	7.488	77	524946	153.308	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	539832	149.363	ug/l	99
33) Carbon Tetrachloride	8.359	117	490377	150.360	ug/l	96
34) Benzene	8.600	78	1259887	150.194	ug/l	97
35) Methacrylonitrile	7.777	41	215224	156.078	ug/l	95
36) 1,2-Dichloroethane	8.665	62	422140	147.830	ug/l	99
37) Trichloroethene	9.347	130	306812	153.593	ug/l	94
38) Methylcyclohexane	9.600	83	490389	168.903	ug/l	93
39) 1,2-Dichloropropane	9.618	63	304138	149.691	ug/l	95
40) Dibromomethane	9.706	93	218470	149.905	ug/l	98
41) Bromodichloromethane	9.888	83	469670	150.750	ug/l	96
42) Vinyl Acetate	6.600	43	3493830	814.821	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085121.D
 Acq On : 06 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 06 22:31:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	382630	156.937	ug/l	96
44) Isopropyl Acetate	8.688	43	672392	158.696	ug/l	99
45) 1,4-Dioxane	9.694	88	111218	3147.777	ug/l	96
46) Methyl methacrylate	9.677	41	320862	165.471	ug/l	97
47) n-amyl Acetate	12.494	43	592642	166.246	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	499133	163.202	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	525997	157.986	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	289001	147.159	ug/l	94
51) Ethyl methacrylate	10.871	69	506274	169.495	ug/l	96
52) 1,3-Dichloropropane	11.159	76	501665	152.638	ug/l	99
53) Dibromochloromethane	11.359	129	362326	151.395	ug/l	96
54) 1,2-Dibromoethane	11.471	107	305232	154.261	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	1112538	801.795	ug/l	99
56) Bromoform	12.576	173	249601	155.551	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	1988082	789.691	ug/l	98
59) 2-Hexanone	11.194	43	1508817	790.966	ug/l	98
61) Tetrachloroethene	11.100	164	270825	144.976	ug/l	96
62) Toluene	10.629	91	1370241	152.311	ug/l	100
64) Chlorobenzene	11.888	112	858494	154.562	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	311301	150.134	ug/l	98
66) Ethyl Benzene	11.959	91	1573924	164.874	ug/l	98
67) m/p-Xylenes	12.071	106	1195807	325.683	ug/l	99
68) o-Xylene	12.394	106	562377	163.091	ug/l	100
69) Styrene	12.406	104	976478	166.883	ug/l	99
70) Isopropylbenzene	12.694	105	1467994	165.057	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	401707	148.393	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	386819m	144.654	ug/l	
73) Bromobenzene	12.976	156	347939	156.185	ug/l	99
74) n-propylbenzene	13.035	91	1746230	163.317	ug/l	99
75) 2-Chlorotoluene	13.123	91	1057392	159.945	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	1241282	162.904	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	163318	168.075	ug/l	94
78) 4-Chlorotoluene	13.218	91	1062762	158.383	ug/l	99
79) tert-butylbenzene	13.435	119	1033507	165.137	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	1230594	163.500	ug/l	100
81) sec-Butylbenzene	13.612	105	1466428	164.927	ug/l	98
82) p-Isopropyltoluene	13.729	119	1249133	169.455	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	629183	153.943	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	630821	158.368	ug/l	99
85) n-Butylbenzene	14.053	91	1076317	174.069	ug/l	98
86) Hexachloroethane	14.329	117	234799	160.002	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	591716	153.379	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	89112	164.781	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	332292	175.876	ug/l	98
90) Hexachlorobutadiene	15.500	225	150844	153.643	ug/l	98
91) Naphthalene	15.635	128	1116289	190.174	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	332292	175.876	ug/l	98

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

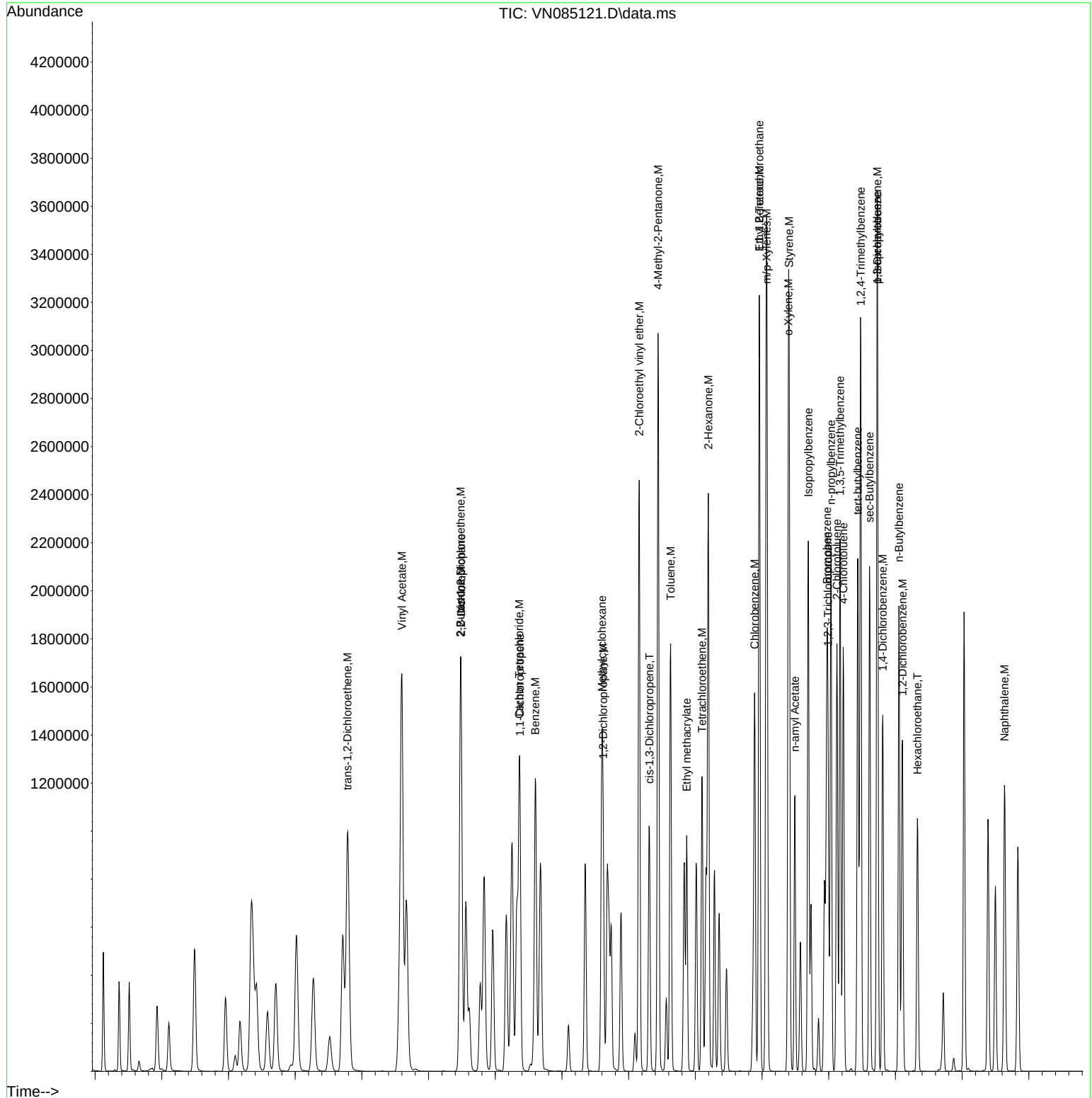
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
Data File : VN085121.D
Acq On : 06 Dec 2024 11:37
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

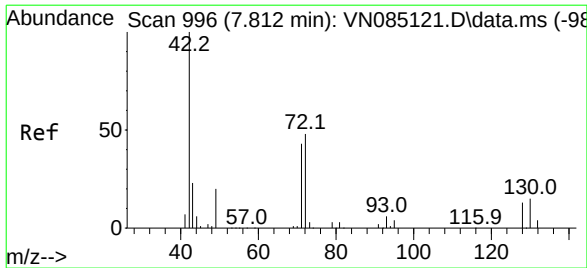
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 22:31:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:19:40 2024
Response via : Initial Calibration





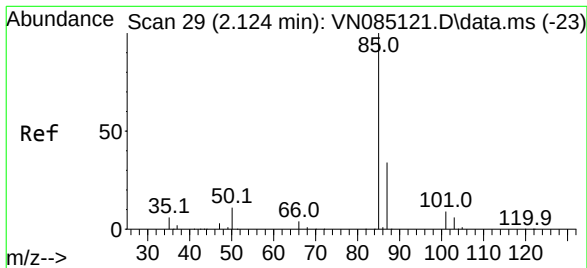
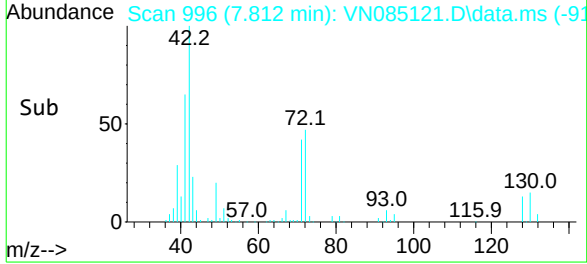
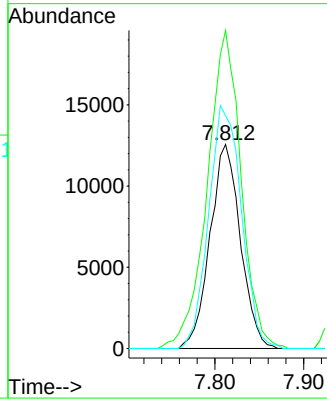
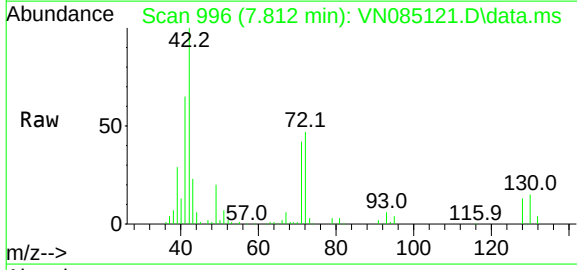
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 128 Resp: 29869
Ion Ratio Lower Upper
128 100
49 173.0 0.0 394.5
130 128.6 0.0 316.5

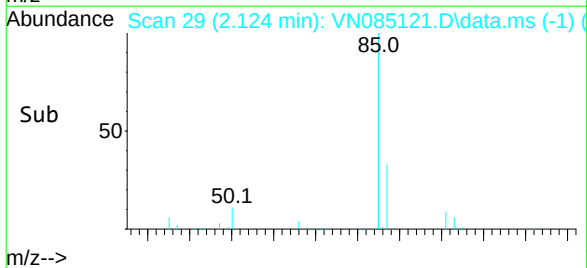
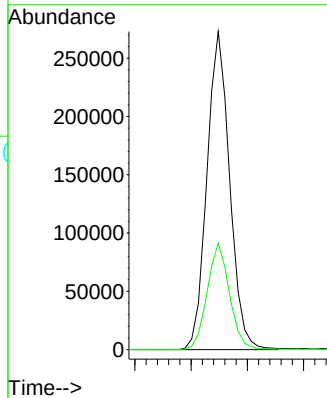
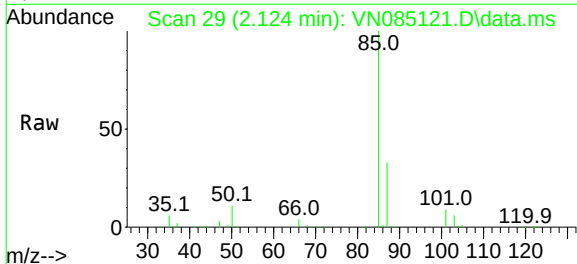
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

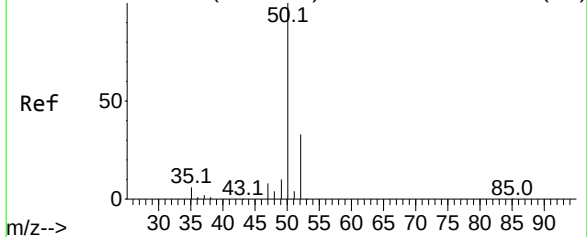


#2
Dichlorodifluoromethane
Concen: 160.147 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 85 Resp: 382696
Ion Ratio Lower Upper
85 100
87 33.5 16.8 50.3



Abundance Scan 69 (2.359 min): VN085121.D\data.ms (-63)



#3

Chloromethane

Concen: 159.276 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 50 Resp: 336891

Ion Ratio Lower Upper

50 100

52 33.2 25.0 37.4

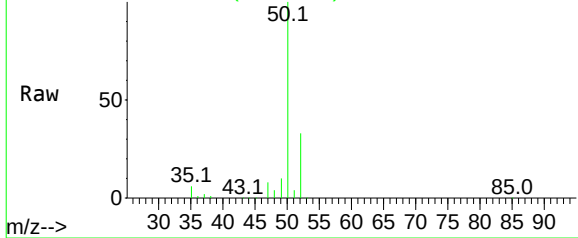
Manual Integrations

APPROVED

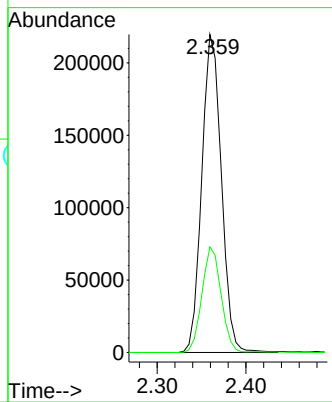
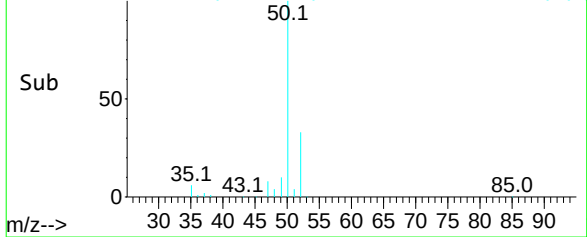
Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024

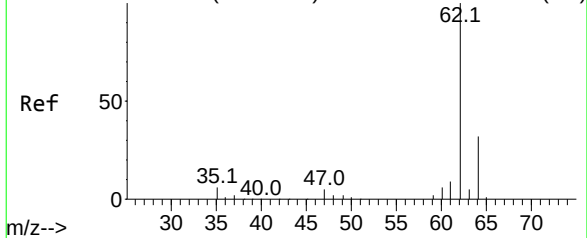
Abundance Scan 69 (2.359 min): VN085121.D\data.ms



Abundance Scan 69 (2.359 min): VN085121.D\data.ms (-1)



Abundance Scan 95 (2.512 min): VN085121.D\data.ms (-88)



#4

Vinyl Chloride

Concen: 156.192 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

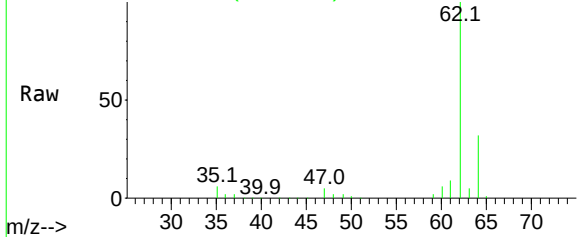
Tgt Ion: 62 Resp: 337908

Ion Ratio Lower Upper

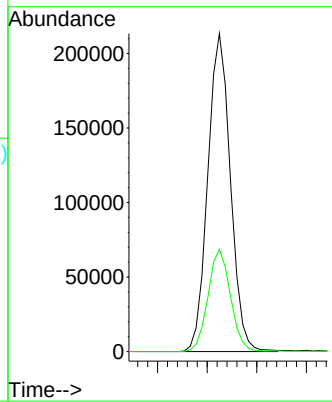
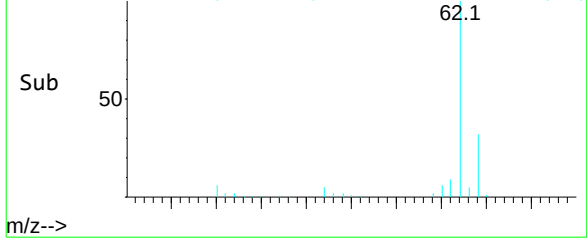
62 100

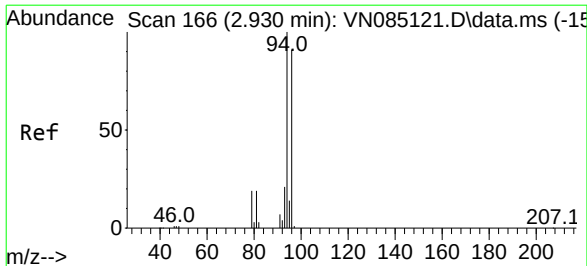
64 32.2 24.9 37.3

Abundance Scan 95 (2.512 min): VN085121.D\data.ms



Abundance Scan 95 (2.512 min): VN085121.D\data.ms (-10)





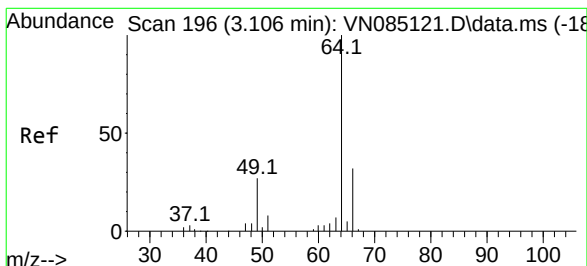
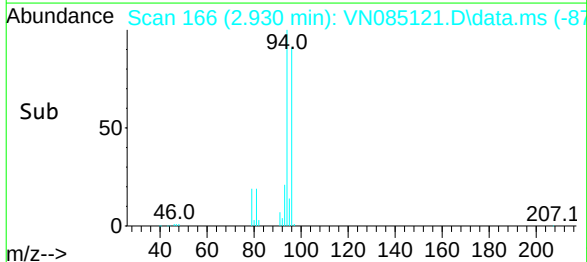
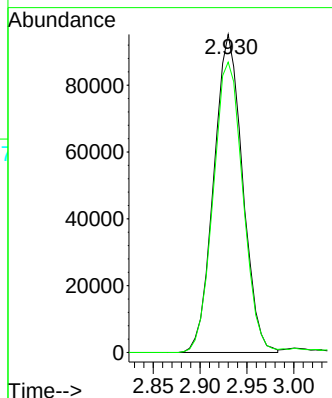
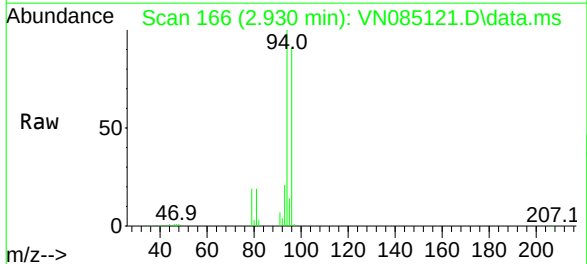
#5
Bromomethane
Concen: 148.033 ug/l
RT: 2.930 min Scan# 166
Delta R.T. -0.035 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 94 Resp: 203330
Ion Ratio Lower Upper
94 100
96 91.3 76.2 114.4

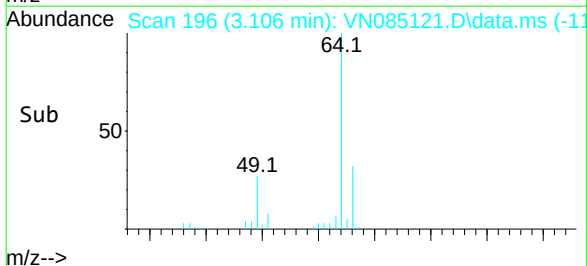
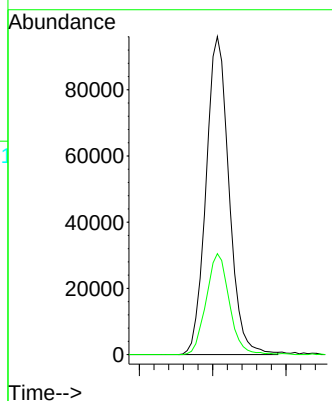
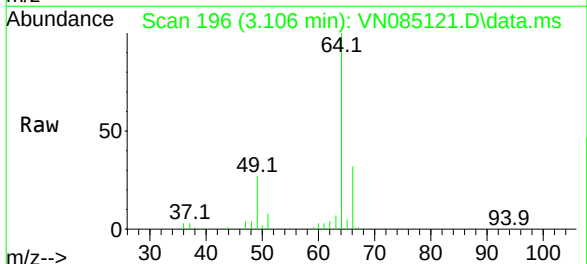
Manual Integrations
APPROVED

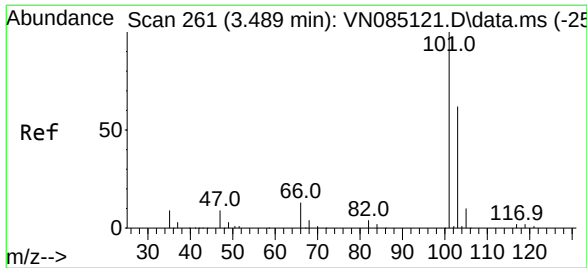
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#6
Chloroethane
Concen: 157.410 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.018 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

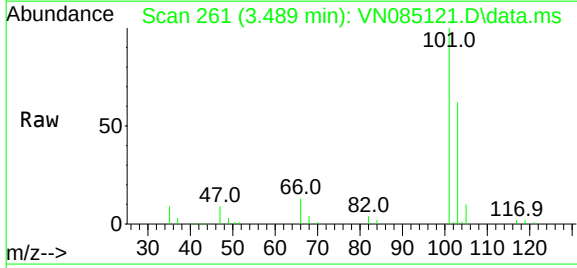
Tgt Ion: 64 Resp: 209222
Ion Ratio Lower Upper
64 100
66 31.7 25.5 38.3





#7
Trichlorofluoromethane
Concen: 159.461 ug/l
RT: 3.489 min Scan# 261
Delta R.T. -0.012 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

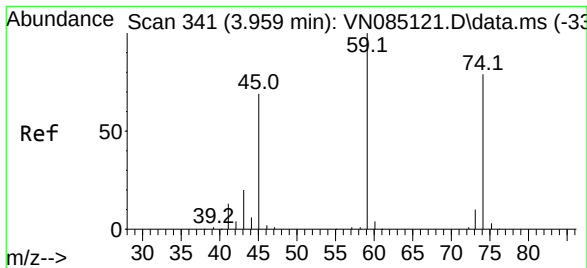
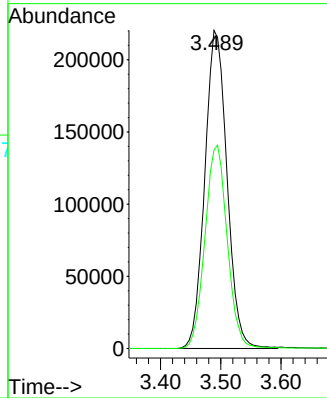
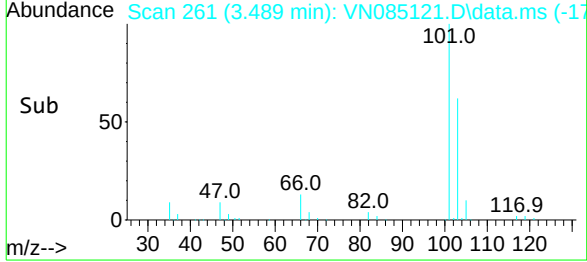
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 564698
Ion Ratio Lower Upper
101 100
103 62.3 51.3 76.9

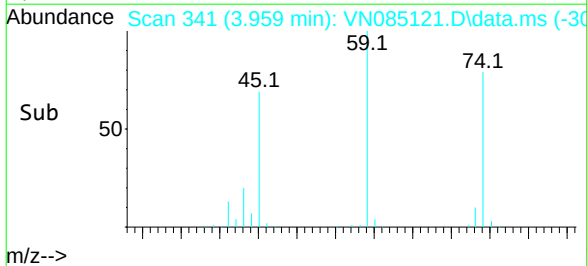
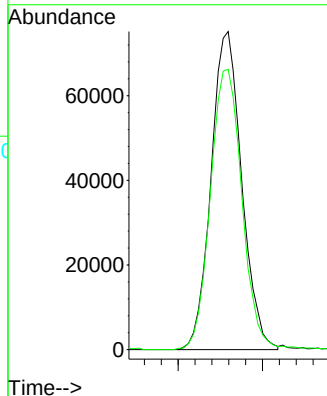
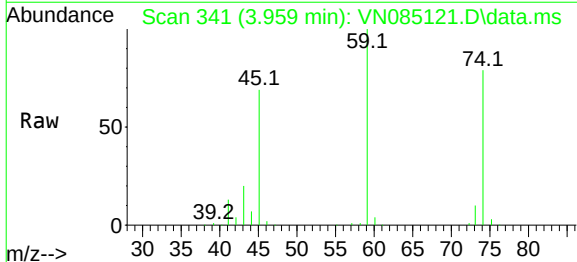
Manual Integrations
APPROVED

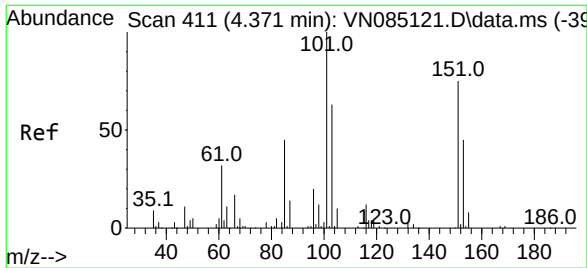
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#8
Diethyl Ether
Concen: 168.881 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

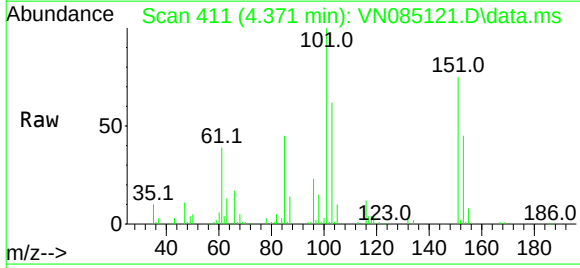
Tgt Ion: 74 Resp: 189430
Ion Ratio Lower Upper
74 100
45 90.9 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 157.134 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

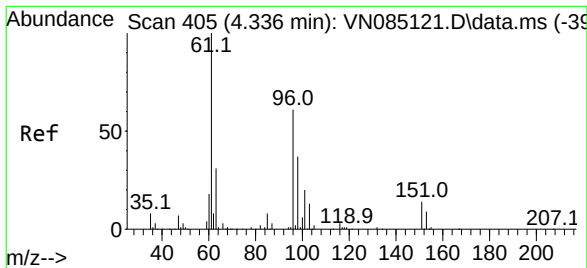
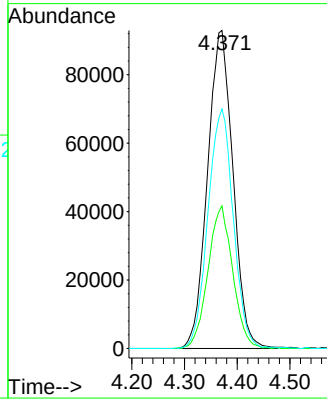
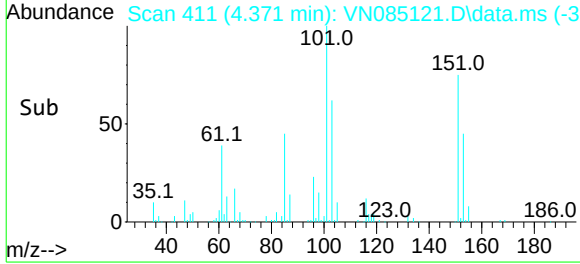
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 311182
Ion Ratio Lower Upper
101 100
85 43.5 0.0 88.6
151 75.1 0.0 155.8

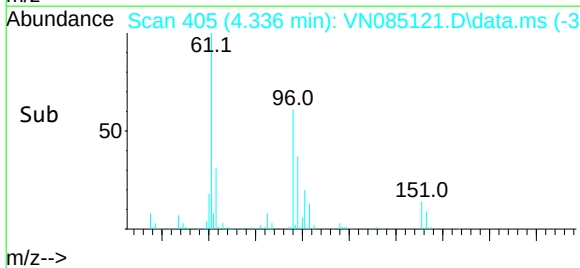
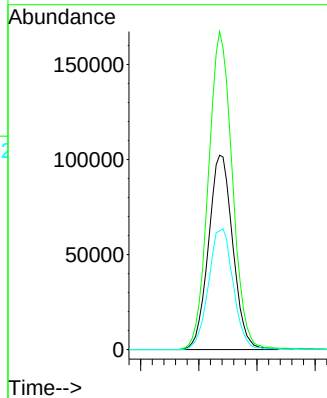
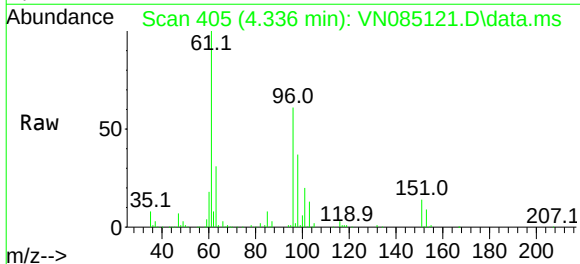
Manual Integrations
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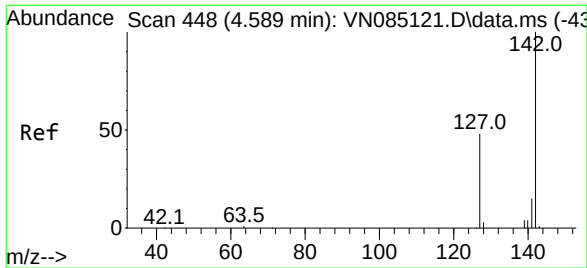
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#10
1,1-Dichloroethene
Concen: 163.607 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 96 Resp: 297605
Ion Ratio Lower Upper
96 100
61 163.6 123.0 184.4
98 61.1 49.1 73.7





#11

Methyl Iodide

Concen: 173.477 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN085121.D

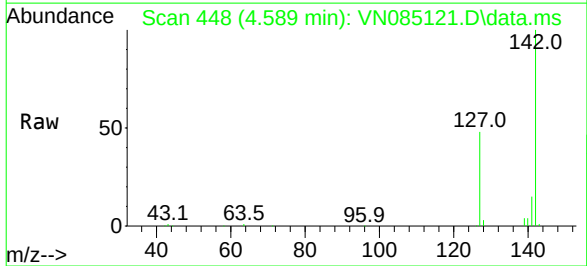
Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150



Tgt Ion:142 Resp: 437650

Ion Ratio Lower Upper

142 100

127 47.6 22.5 67.5

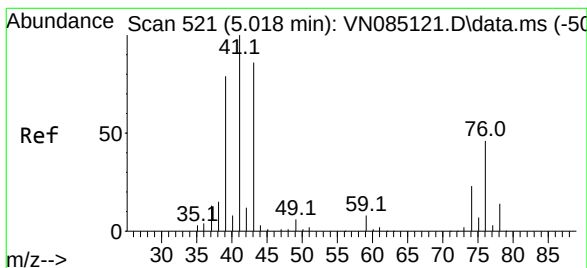
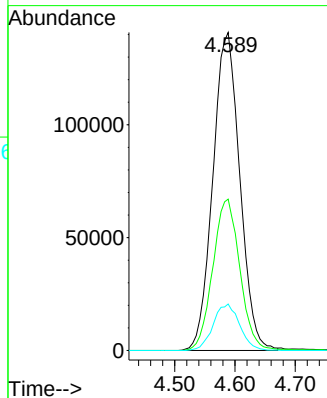
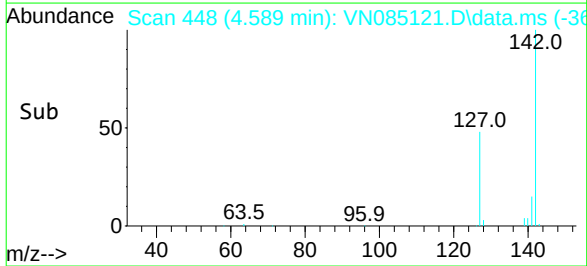
141 14.6 8.3 24.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#12

Methyl Acetate

Concen: 162.608 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085121.D

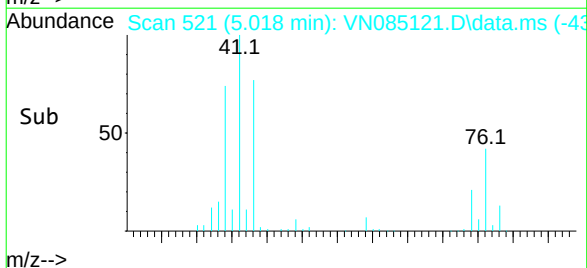
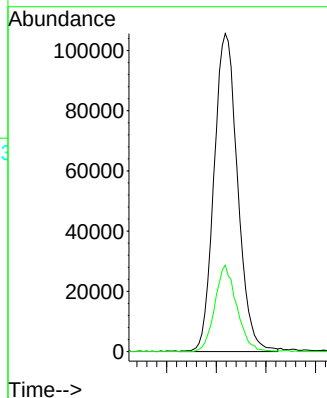
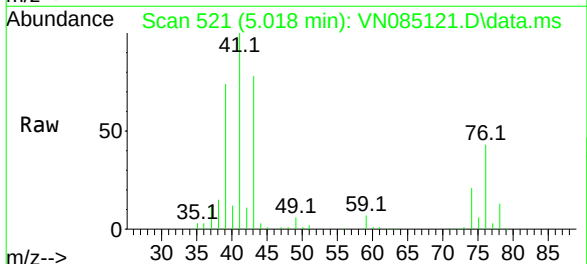
Acq: 06 Dec 2024 11:37

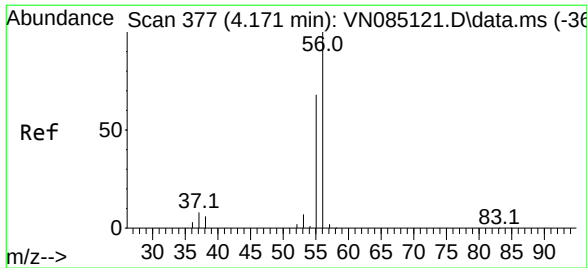
Tgt Ion: 43 Resp: 348950

Ion Ratio Lower Upper

43 100

74 27.2 19.8 29.6





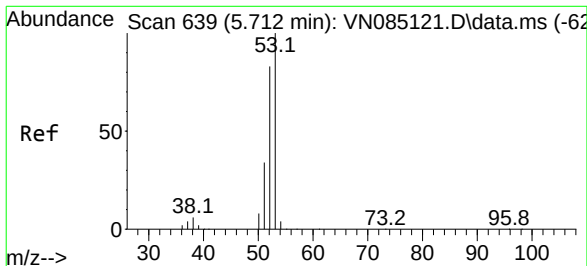
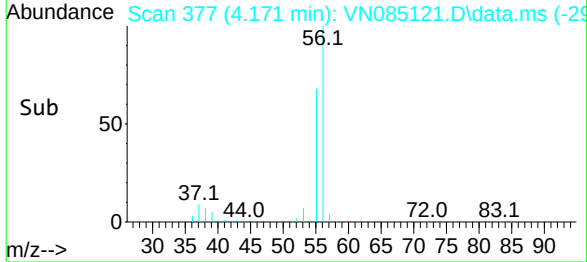
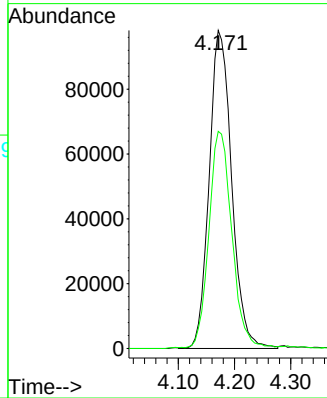
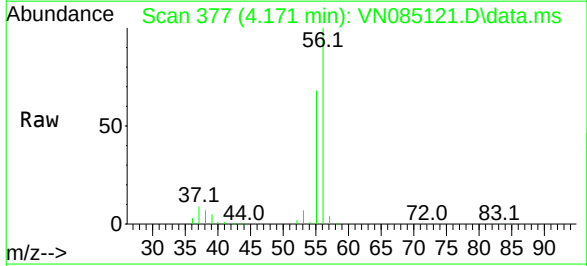
#13
Acrolein
Concen: 873.598 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.012 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 272433
Ion Ratio Lower Upper
56 100
55 69.4 59.4 89.0

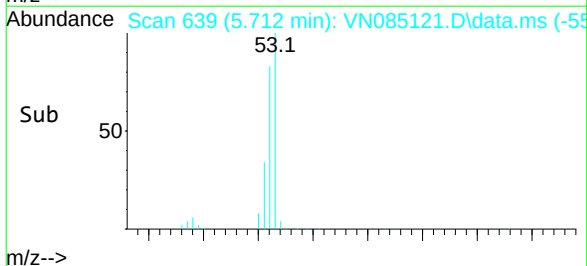
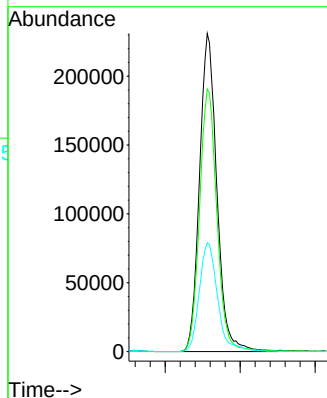
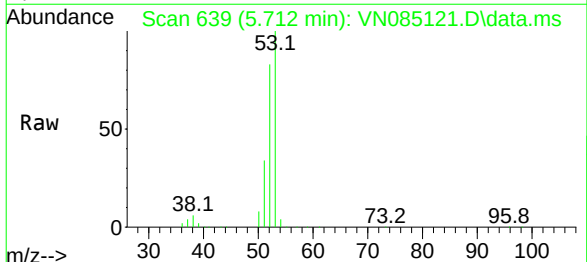
Manual Integrations
APPROVED

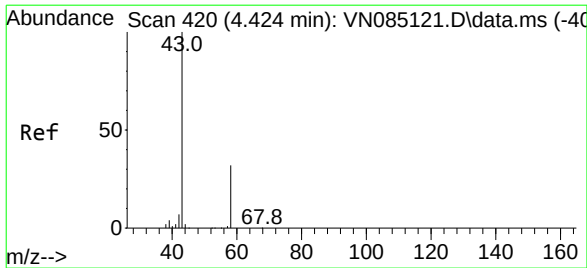
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#14
Acrylonitrile
Concen: 832.848 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 53 Resp: 742116
Ion Ratio Lower Upper
53 100
52 82.5 42.9 128.5
51 36.1 17.2 51.5





#15

Acetone

Concen: 815.641 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 58 Resp: 196952

Ion Ratio Lower Upper

58 100

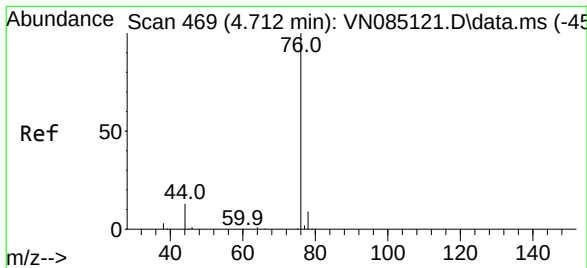
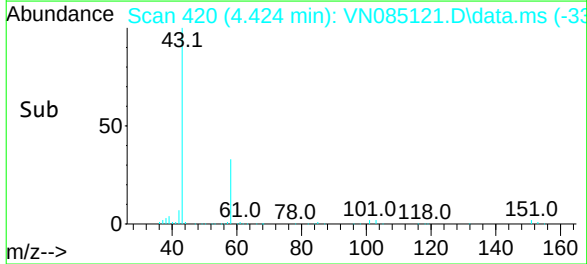
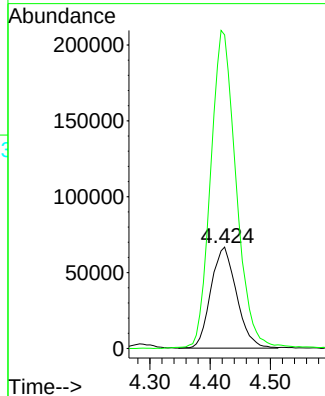
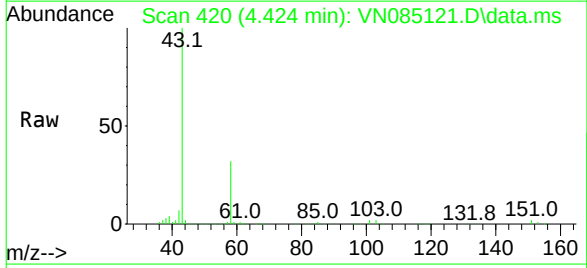
43 309.3 242.3 363.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#16

Carbon Disulfide

Concen: 159.023 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085121.D

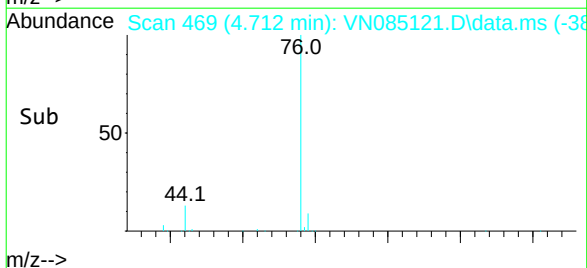
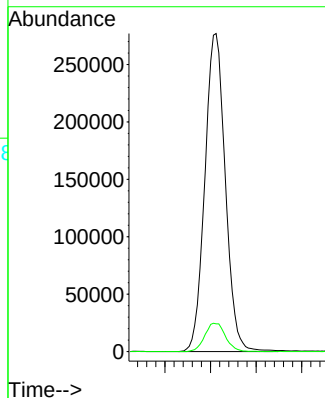
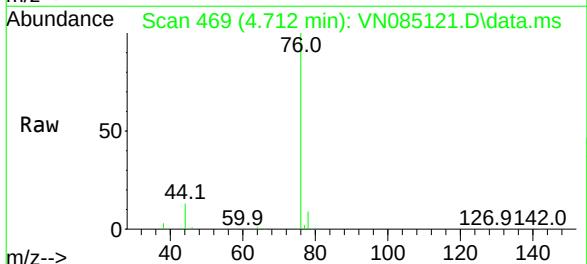
Acq: 06 Dec 2024 11:37

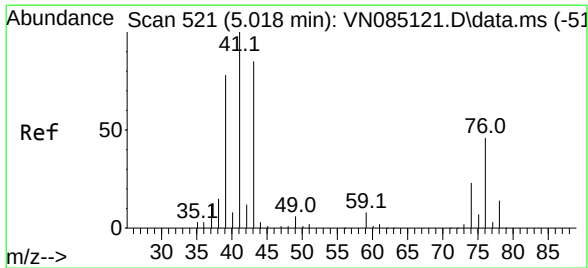
Tgt Ion: 76 Resp: 864628

Ion Ratio Lower Upper

76 100

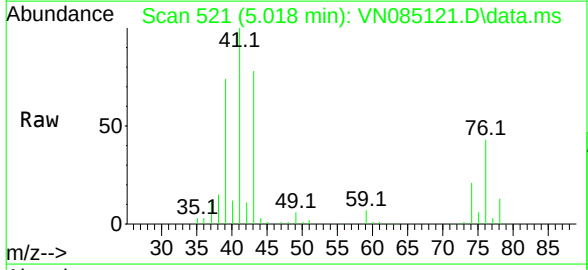
78 8.7 7.1 10.7





#17
 Allyl chloride
 Concen: 166.552 ug/l
 RT: 5.018 min Scan# 521
 Delta R.T. -0.006 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

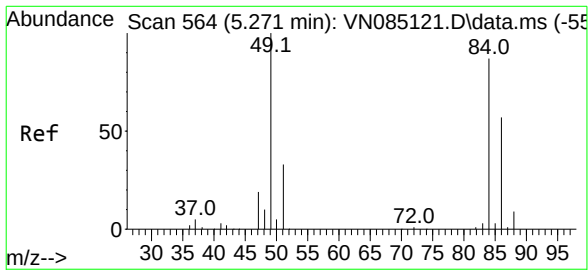
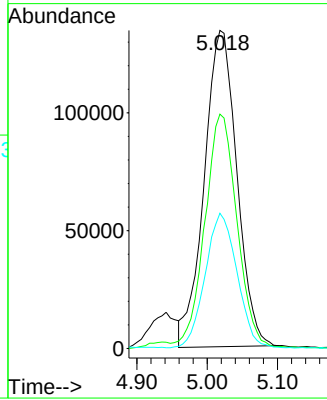
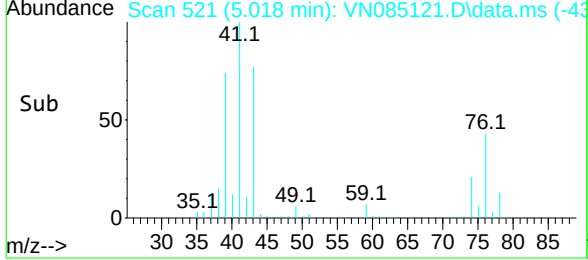
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150



Tgt Ion:	41	Resp:	433507
Ion	Ratio	Lower	Upper
41	100		
39	73.7	32.0	96.2
76	42.5	20.2	60.5

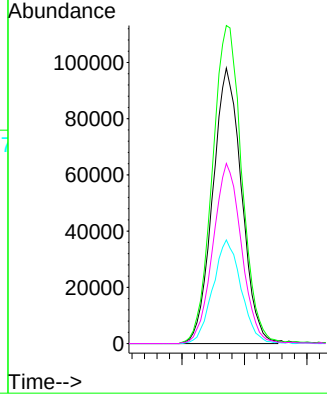
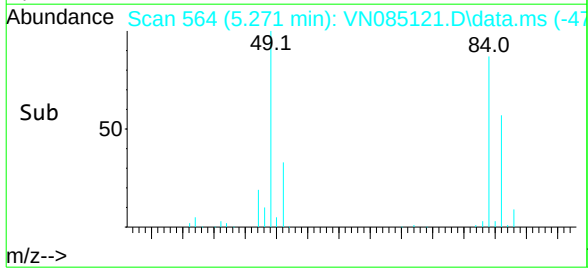
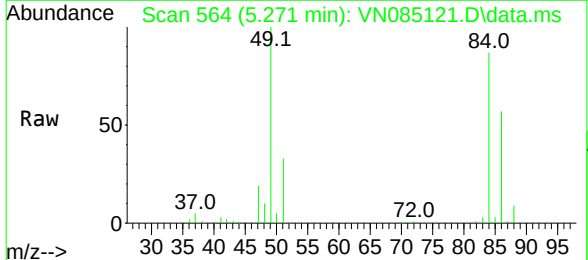
Manual Integrations
 APPROVED

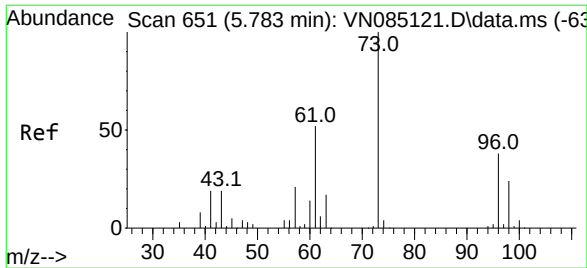
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#18
 Methylene Chloride
 Concen: 151.985 ug/l
 RT: 5.271 min Scan# 564
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion:	84	Resp:	313694
Ion	Ratio	Lower	Upper
84	100		
49	115.5	95.1	142.7
51	37.6	27.4	41.0
86	65.4	50.9	76.3





#19

trans-1,2-Dichloroethene

Concen: 160.130 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 302760

Ion Ratio Lower Upper

96 100

61 136.5 100.4 150.6

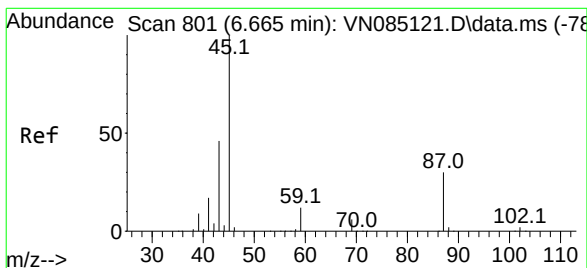
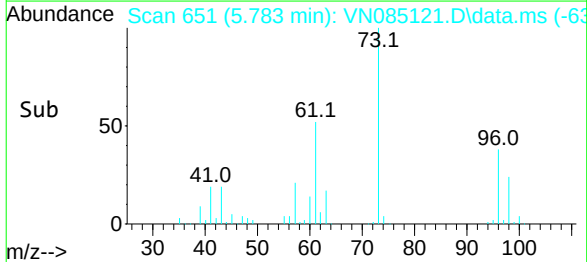
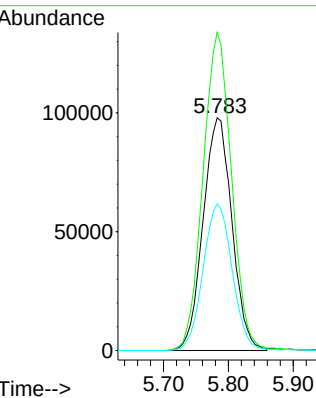
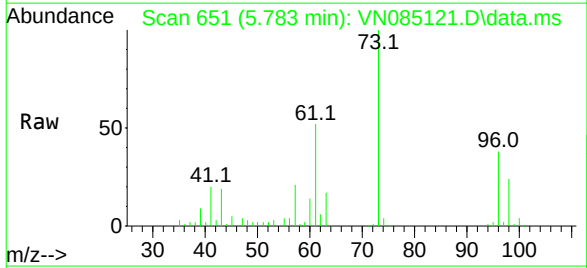
98 63.0 52.6 79.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#20

Diisopropyl ether

Concen: 161.244 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Tgt Ion: 45 Resp: 921058

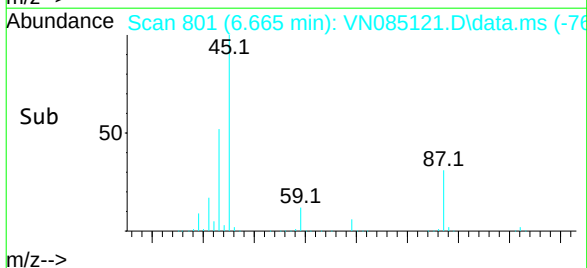
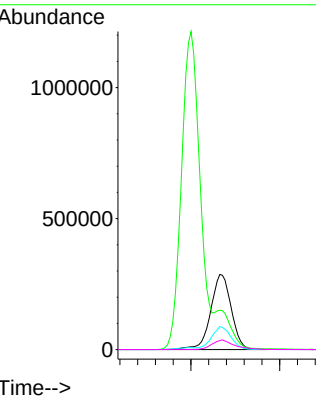
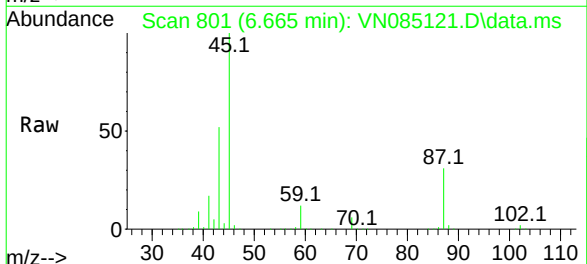
Ion Ratio Lower Upper

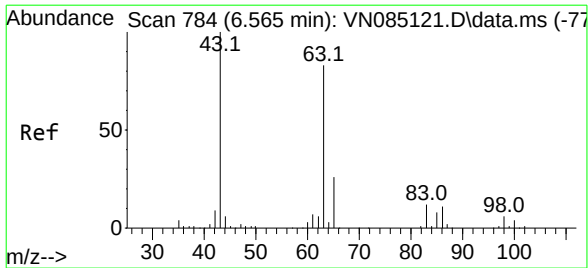
45 100

43 51.6 41.9 62.9

87 30.5 24.1 36.1

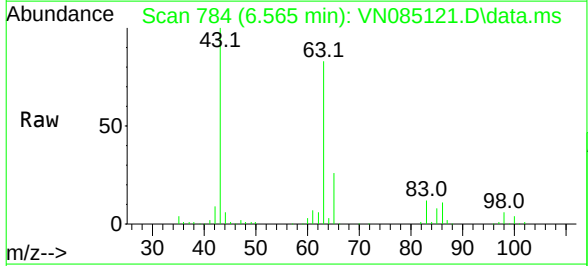
59 11.8 10.0 15.0





#21
1,1-Dichloroethane
Concen: 156.428 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

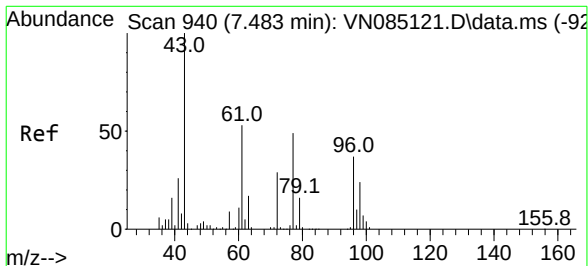
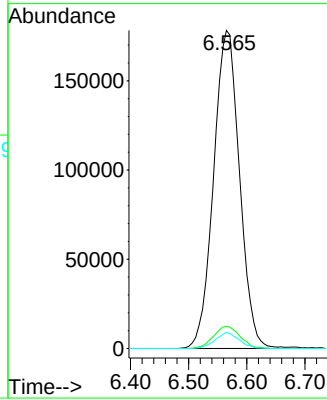
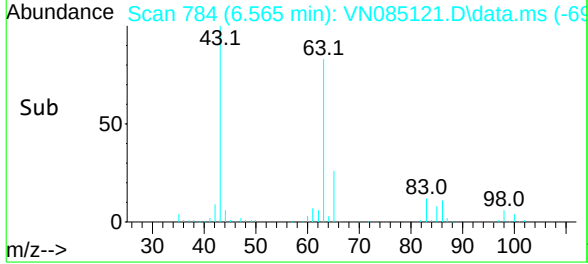
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion:	63	Resp:	551498
Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.4
100	5.1	1.6	4.8

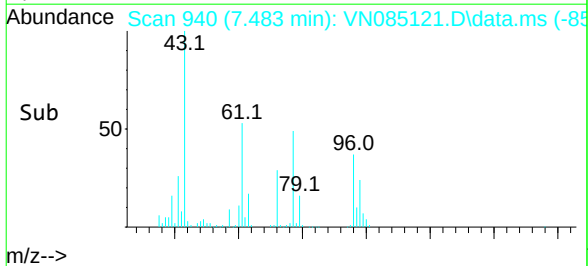
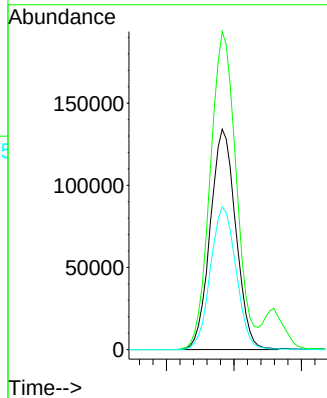
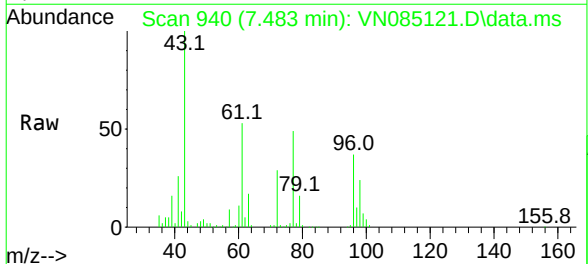
Manual Integrations
APPROVED

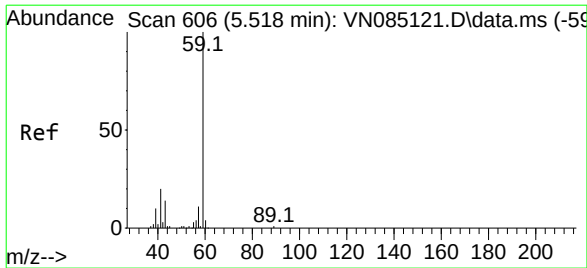
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#22
cis-1,2-Dichloroethene
Concen: 162.585 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

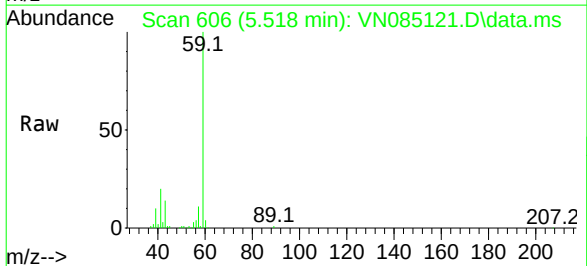
Tgt Ion:	96	Resp:	353328
Ion	Ratio	Lower	Upper
96	100		
61	147.0	115.9	173.9
98	65.0	51.8	77.8





#23
tert-Butyl Alcohol
Concen: 866.490 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

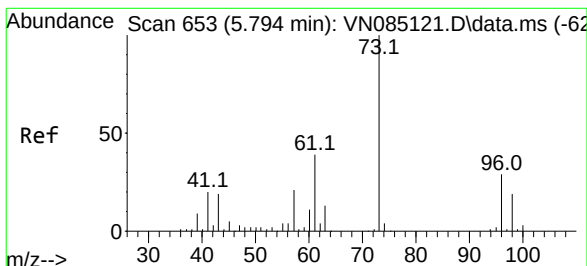
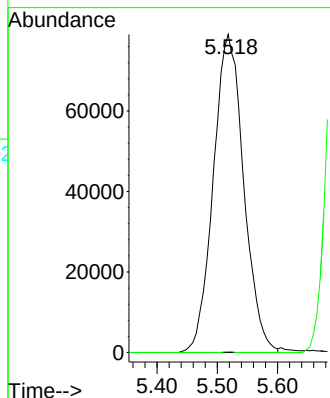
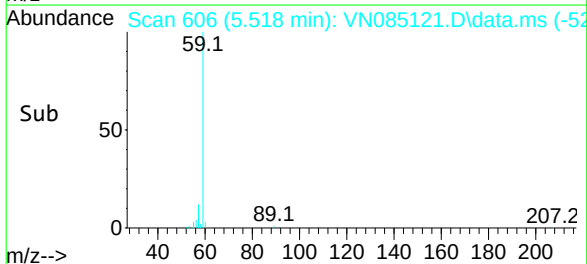
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 59 Resp: 276979
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#

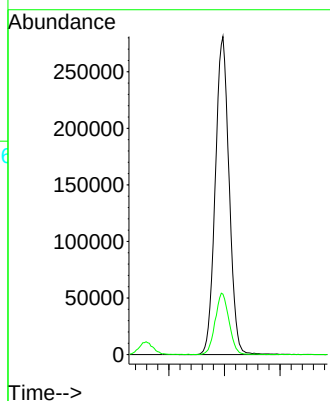
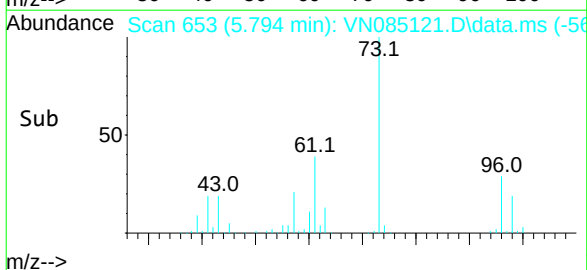
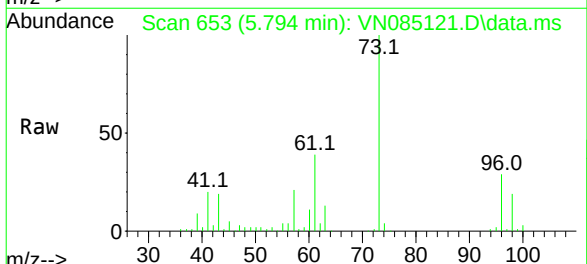
Manual Integrations
APPROVED

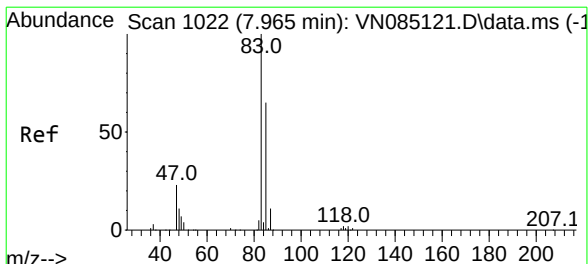
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#24
Methyl tert-Butyl Ether
Concen: 171.143 ug/l m
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 73 Resp: 971837
Ion Ratio Lower Upper
73 100
43 0.0 8.7 13.1#





#25
Chloroform
Concen: 154.206 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

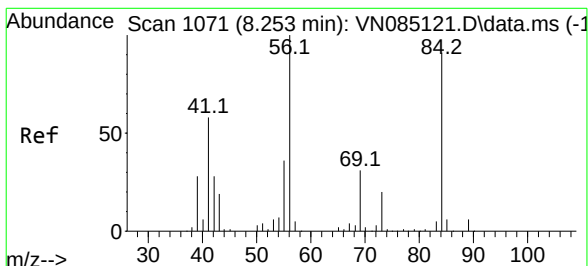
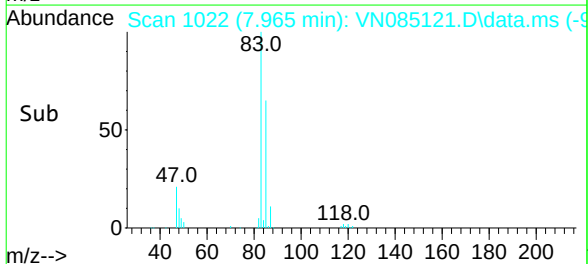
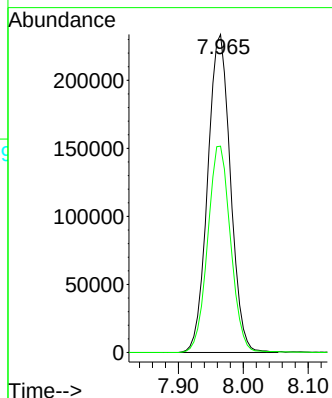
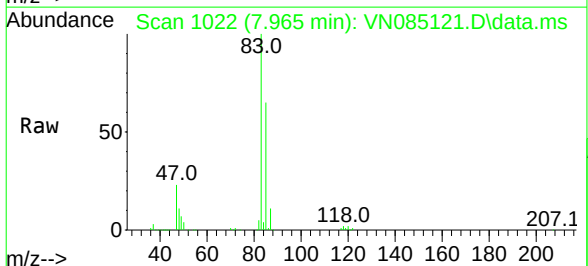
ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 569561
Ion Ratio Lower Upper
83 100
85 64.9 49.4 74.0

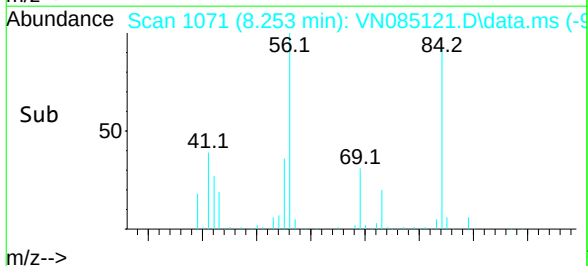
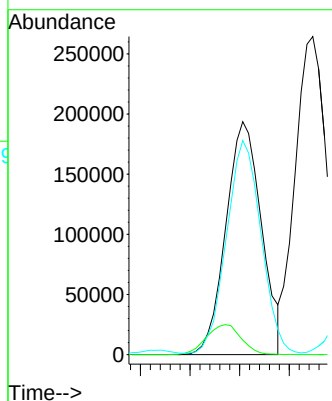
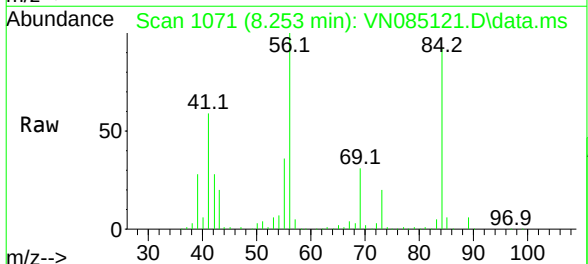
Manual Integrations
APPROVED

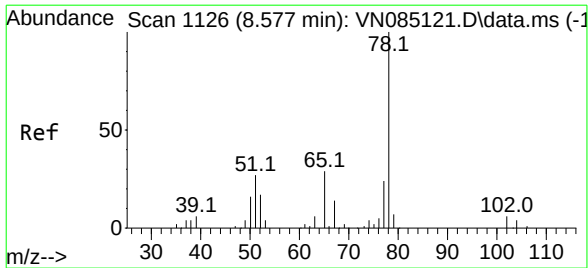
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#26
Cyclohexane
Concen: 166.394 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 56 Resp: 483028
Ion Ratio Lower Upper
56 100
89 12.6 19.5 29.3#
84 90.0 70.6 105.8





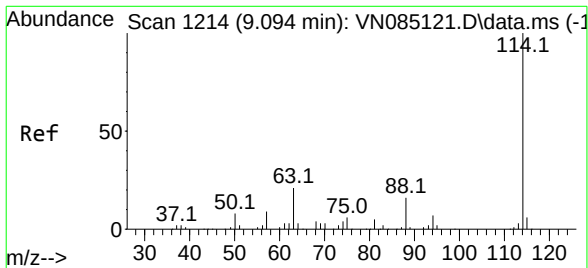
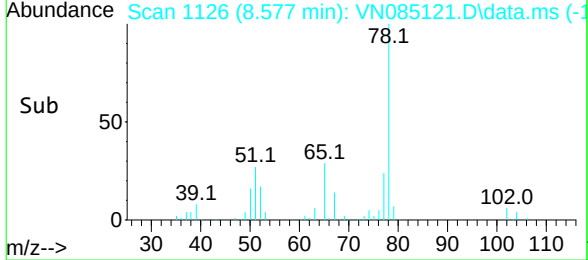
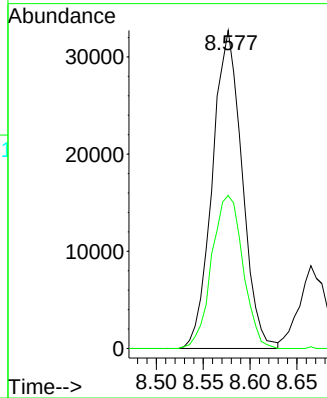
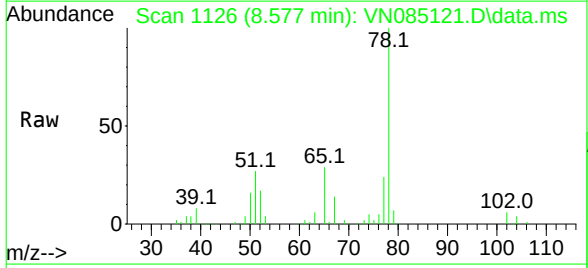
#27
1,2-Dichloroethane-d4
Concen: 30.424 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 72104
Ion Ratio Lower Upper
65 100
67 50.5 39.9 59.9

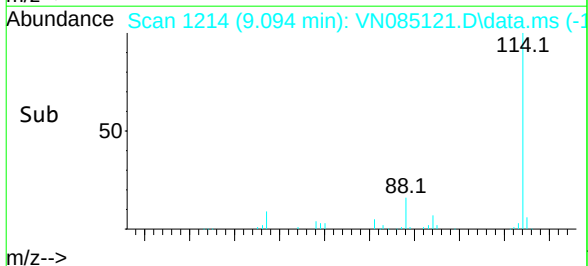
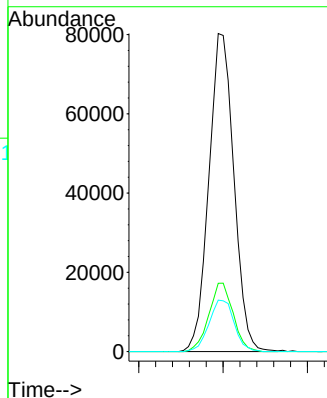
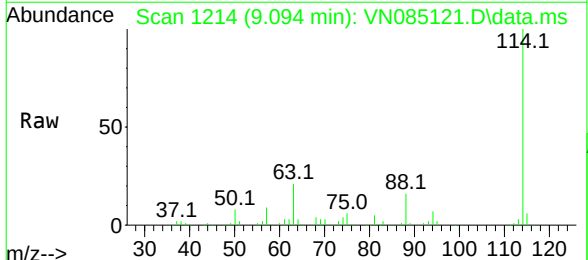
Manual Integrations
APPROVED

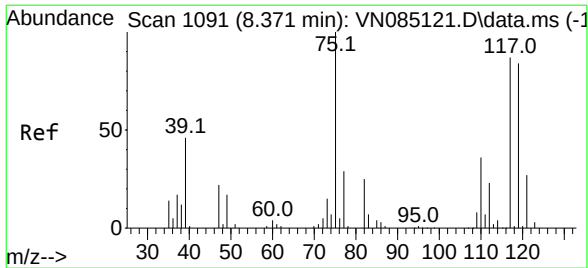
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:114 Resp: 165478
Ion Ratio Lower Upper
114 100
63 20.8 16.2 24.2
88 16.3 12.5 18.7





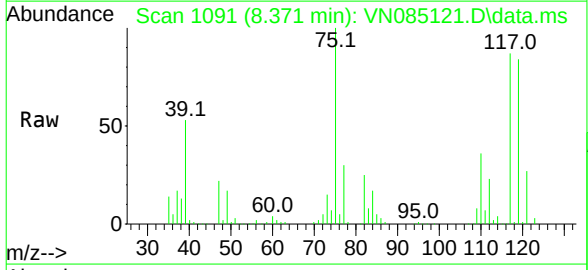
#29
 1,1-Dichloropropene
 Concen: 156.686 ug/l
 RT: 8.371 min Scan# 1091
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

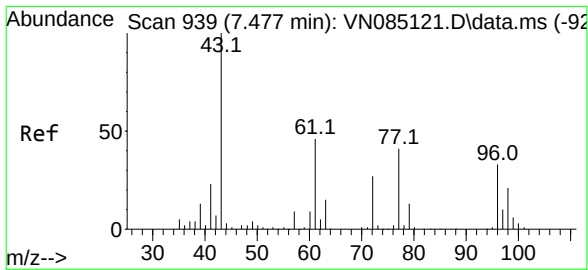
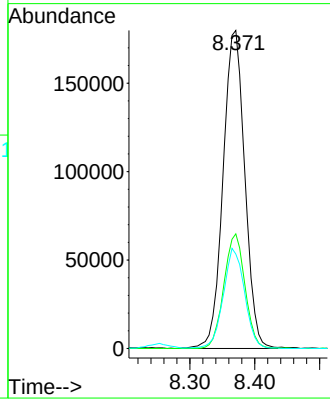
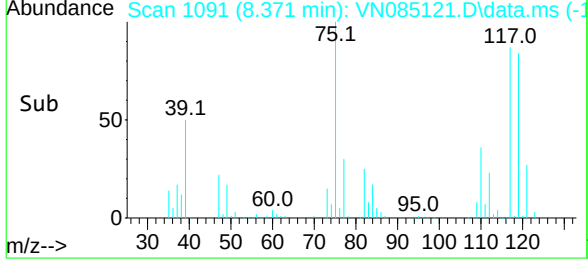


Tgt Ion:	75	Resp:	418388
Ion	Ratio	Lower	Upper
75	100		
110	35.0	0.0	71.6
77	30.9	0.0	62.2

Manual Integrations

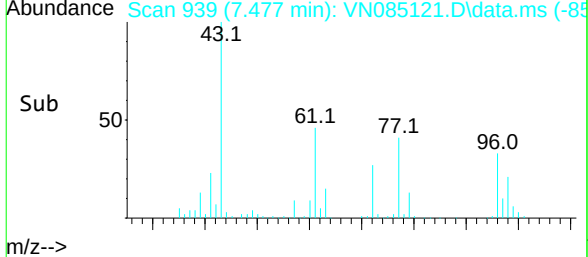
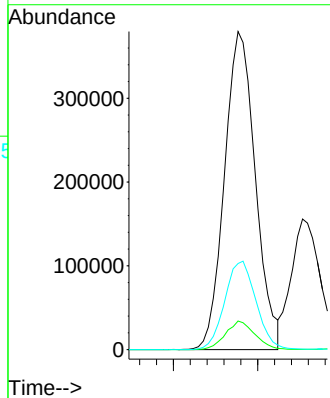
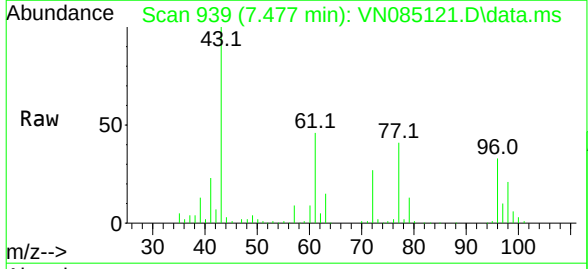
APPROVED

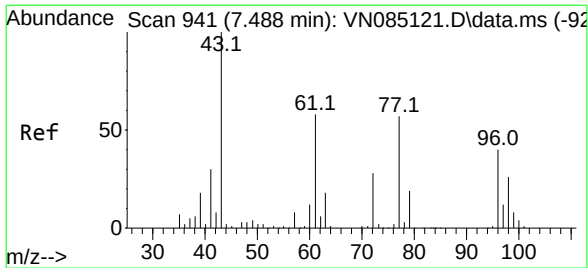
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#30
 2-Butanone
 Concen: 789.269 ug/l
 RT: 7.477 min Scan# 939
 Delta R.T. -0.006 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

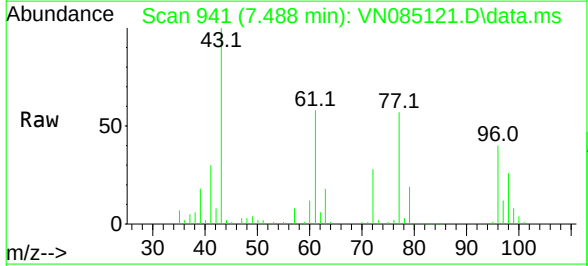
Tgt Ion:	43	Resp:	967143
Ion	Ratio	Lower	Upper
43	100		
57	8.5	6.9	10.3
72	28.2	21.8	32.8





#31
2,2-Dichloropropane
Concen: 153.308 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

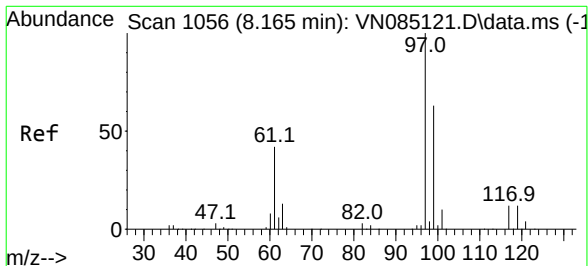
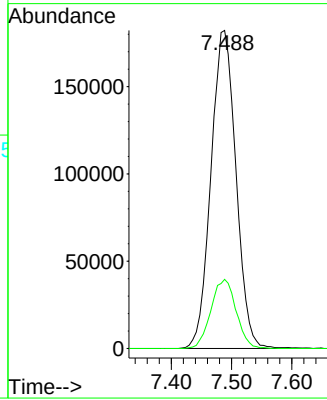
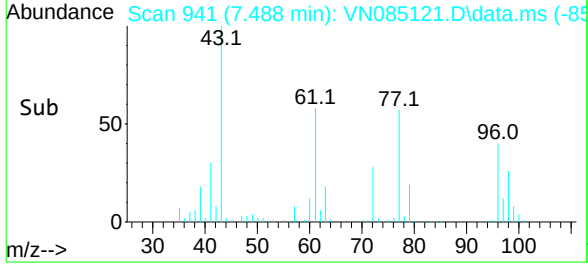
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



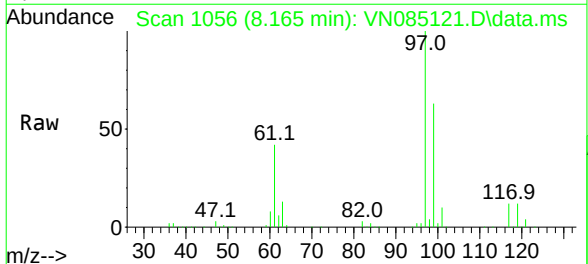
Tgt Ion: 77 Resp: 524946
Ion Ratio Lower Upper
77 100
97 21.8 0.0 0.0#

Manual Integrations
APPROVED

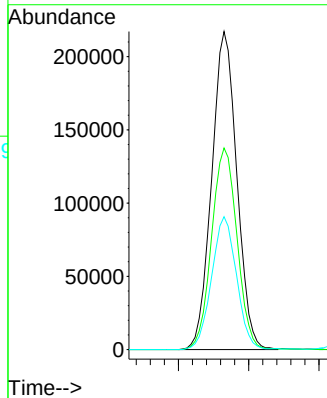
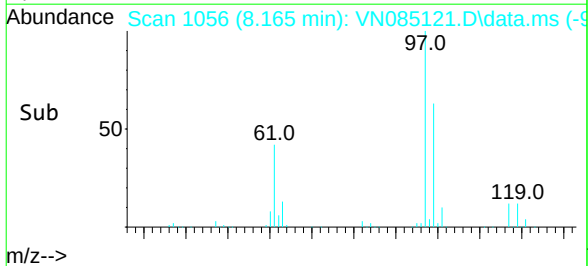
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

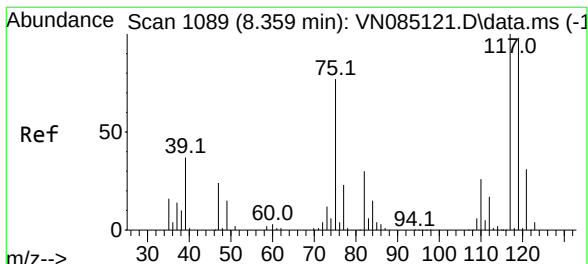


#32
1,1,1-Trichloroethane
Concen: 149.363 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37



Tgt Ion: 97 Resp: 539832
Ion Ratio Lower Upper
97 100
99 64.1 50.8 76.2
61 41.4 32.7 49.1





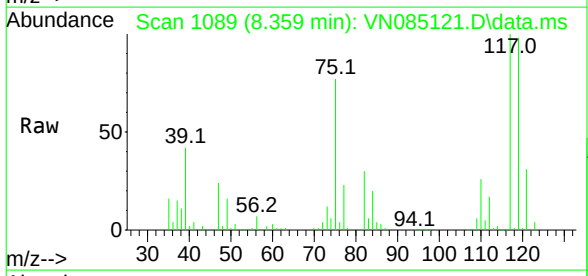
#33
Carbon Tetrachloride
Concen: 150.360 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

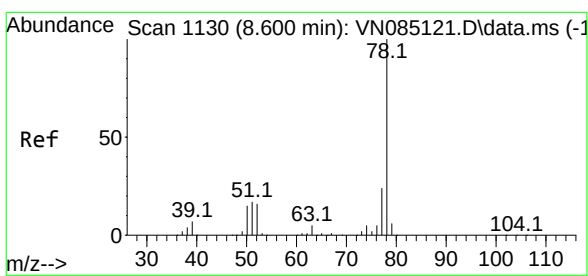
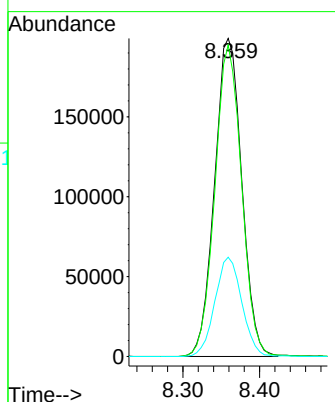
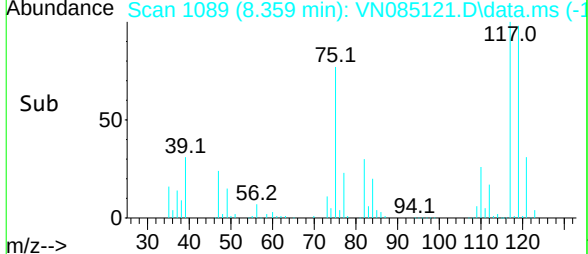
VSTDIC150



Tgt Ion:	117	Resp:	490377
Ion	Ratio	Lower	Upper
117	100		
119	97.9	81.6	122.4
121	31.2	26.5	39.7

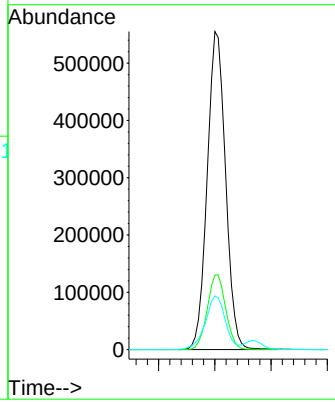
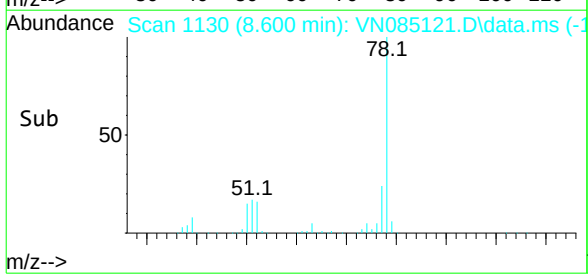
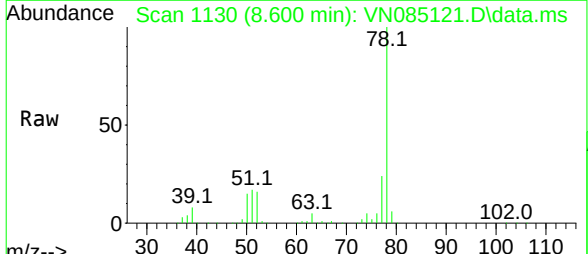
Manual Integrations
APPROVED

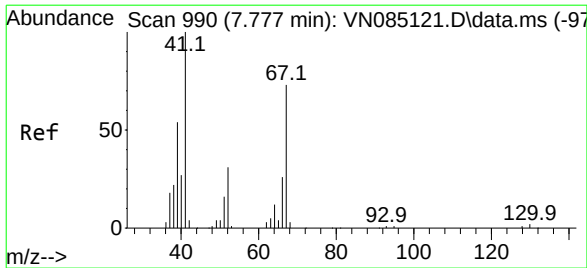
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#34
Benzene
Concen: 150.194 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:	78	Resp:	1259887
Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.0	27.0
51	16.8	12.4	18.6





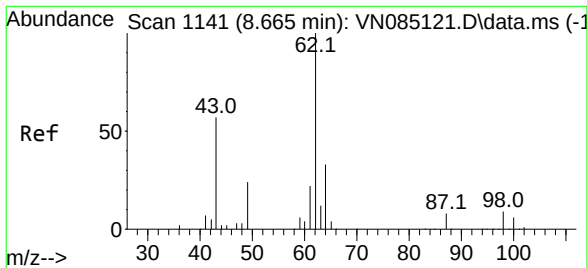
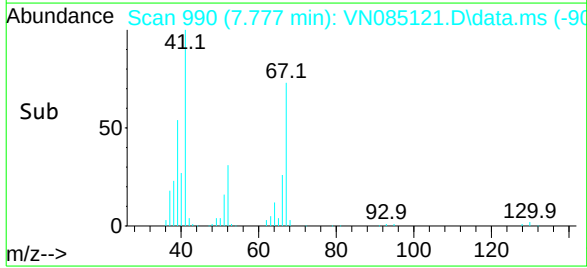
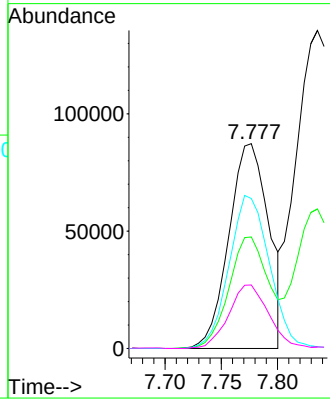
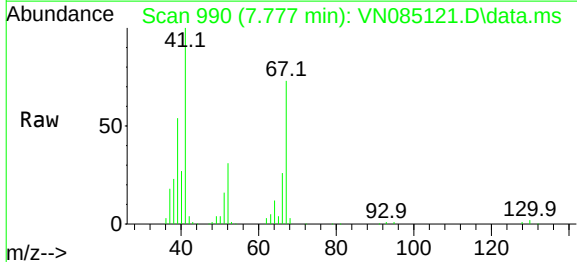
#35
Methacrylonitrile
Concen: 156.078 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:	41	Resp:	215224
Ion	Ratio	Lower	Upper
41	100		
39	54.3	24.4	73.2
67	73.2	37.0	110.9
52	31.0	12.4	37.2

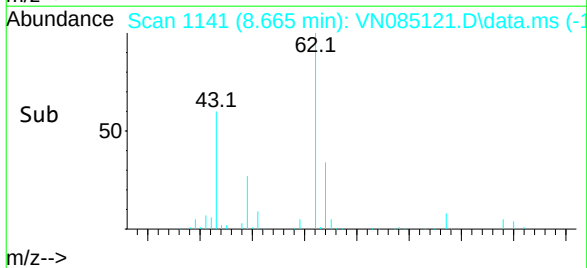
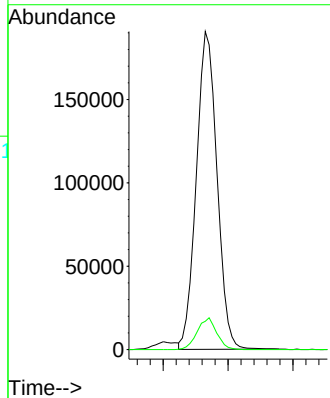
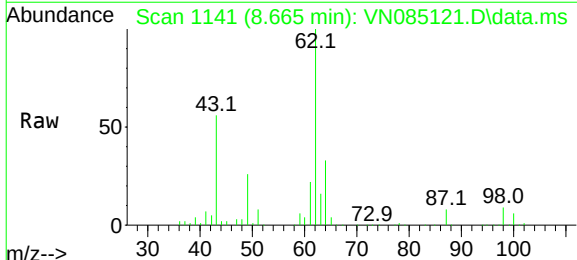
Manual Integrations
APPROVED

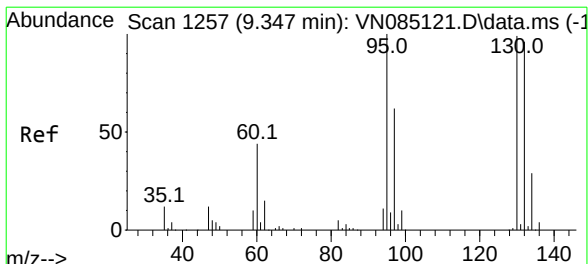
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#36
1,2-Dichloroethane
Concen: 147.830 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:	62	Resp:	422140
Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.3	10.9





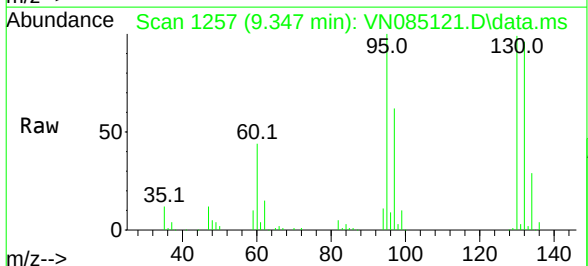
#37
 Trichloroethene
 Concen: 153.593 ug/l
 RT: 9.347 min Scan# 1257
 Delta R.T. -0.006 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

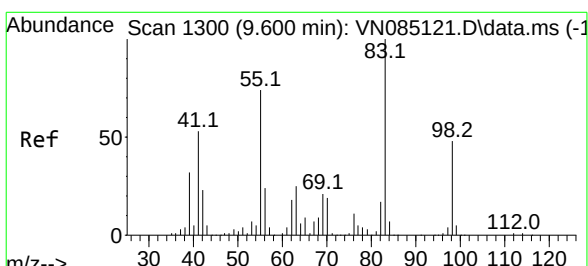
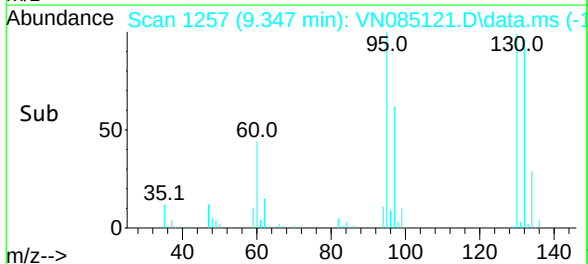
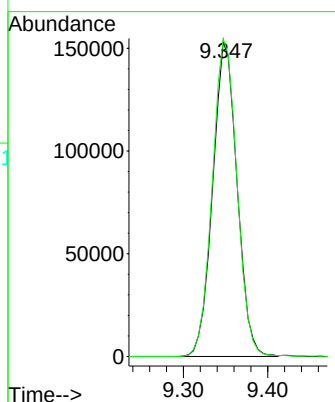


Tgt Ion: 130 Resp: 306812

Ion	Ratio	Lower	Upper
130	100		
95	101.3	76.2	114.4

Manual Integrations
 APPROVED

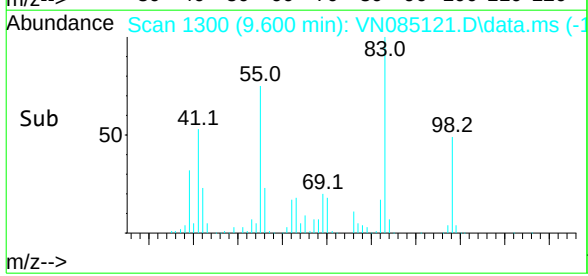
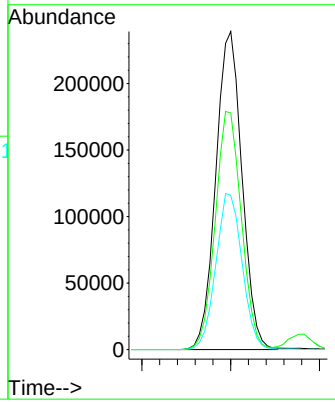
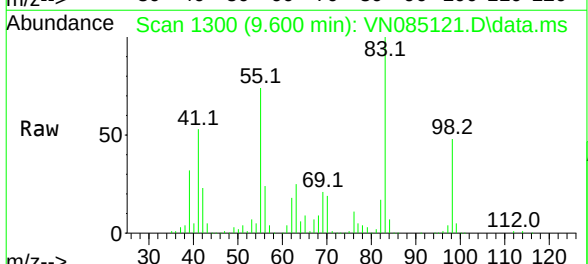
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

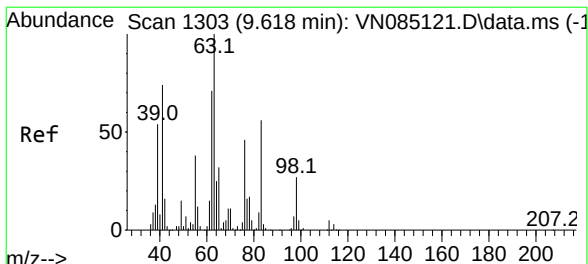


#38
 Methylcyclohexane
 Concen: 168.903 ug/l
 RT: 9.600 min Scan# 1300
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion: 83 Resp: 490389

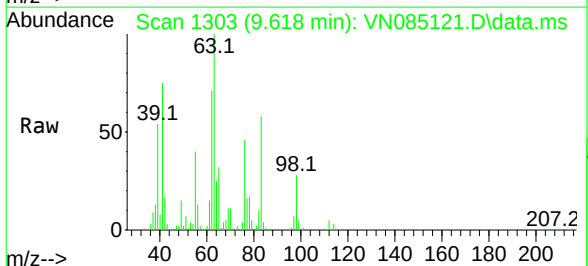
Ion	Ratio	Lower	Upper
83	100		
55	74.7	41.4	124.4
98	49.2	25.7	77.1





#39
 1,2-Dichloropropane
 Concen: 149.691 ug/l
 RT: 9.618 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

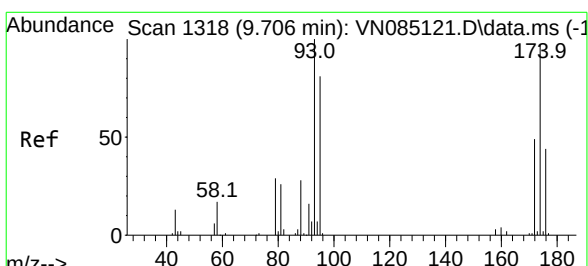
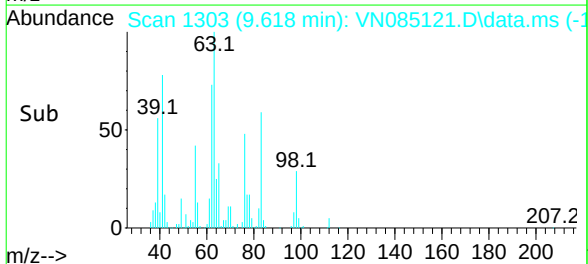
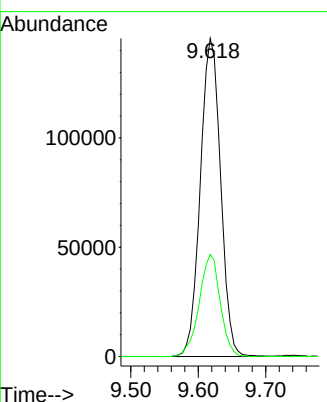
Instrument : MSVOA_N
 ClientSampleId : VSTDICC150



Tgt Ion: 63 Resp: 304138

Ion	Ratio	Lower	Upper
63	100		
65	32.1	23.4	35.0

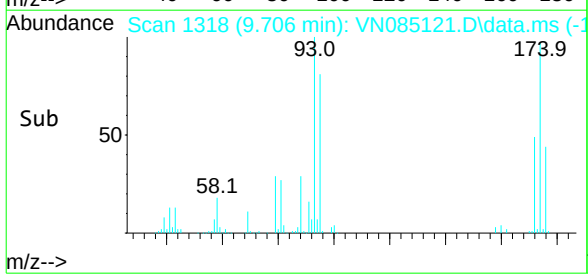
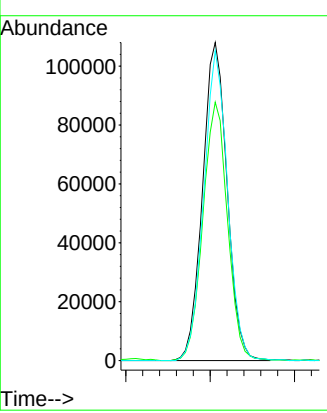
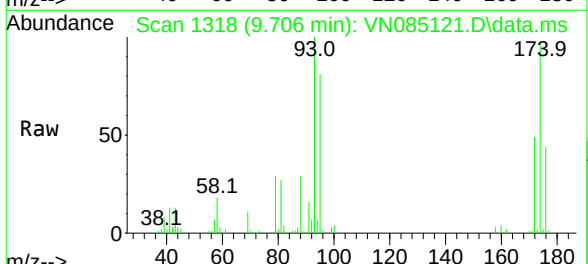
Manual Integrations
APPROVED
 Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

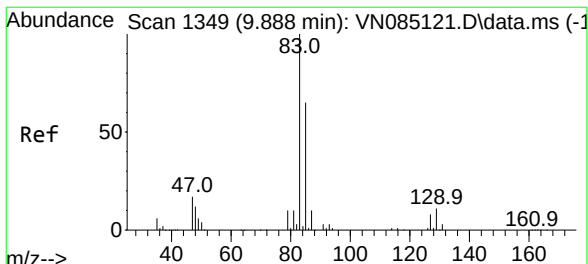


#40
 Dibromomethane
 Concen: 149.905 ug/l
 RT: 9.706 min Scan# 1318
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion: 93 Resp: 218470

Ion	Ratio	Lower	Upper
93	100		
95	81.5	0.0	169.4
174	94.5	0.0	189.8





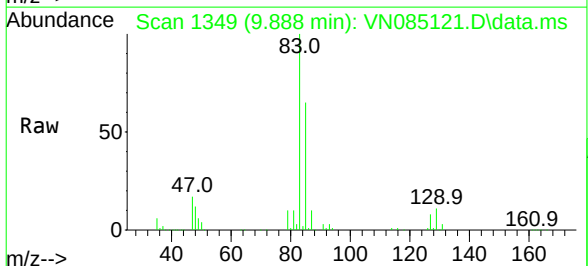
#41
 Bromodichloromethane
 Concen: 150.750 ug/l
 RT: 9.888 min Scan# 1349
 Delta R.T. 0.006 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

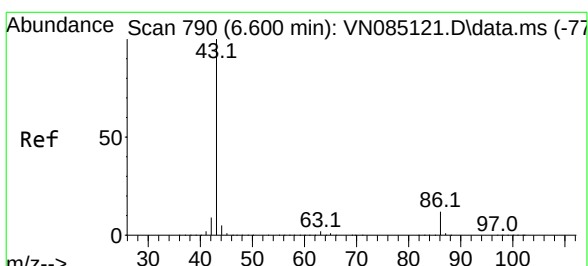
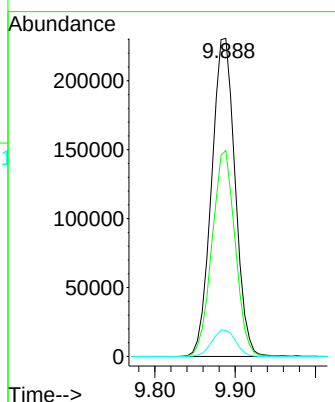
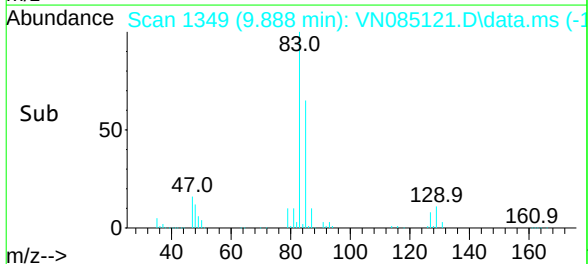
VSTDICC150



Tgt Ion:	83	Resp:	469670
Ion	Ratio	Lower	Upper
83	100		
85	64.7	54.6	81.8
127	8.2	7.0	10.6

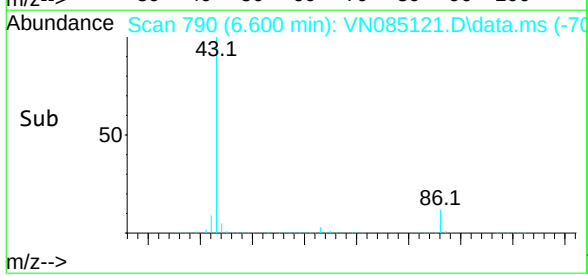
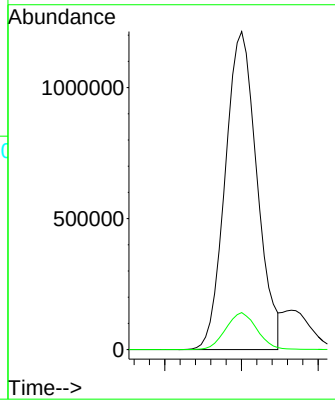
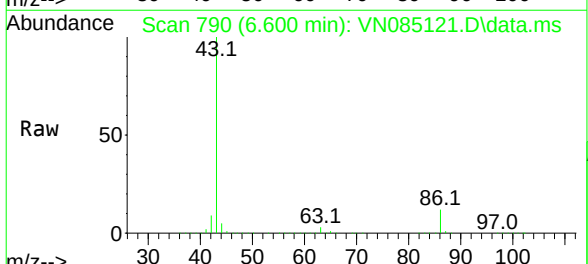
Manual Integrations
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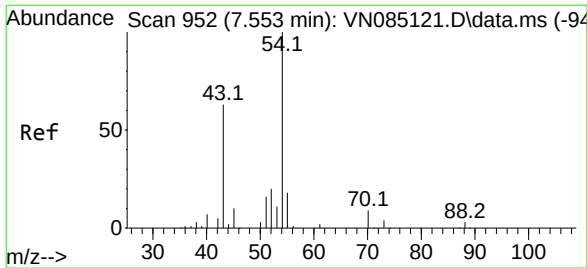
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#42
 Vinyl Acetate
 Concen: 814.821 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion:	43	Resp:	3493830
Ion	Ratio	Lower	Upper
43	100		
86	11.5	9.2	13.8





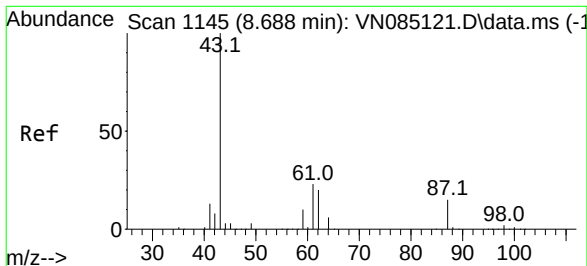
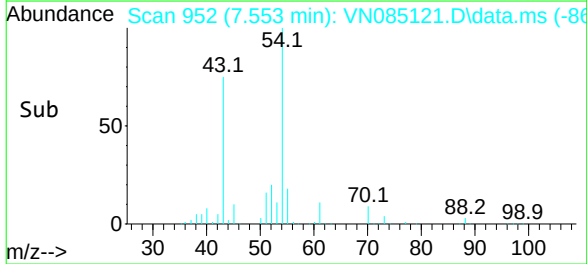
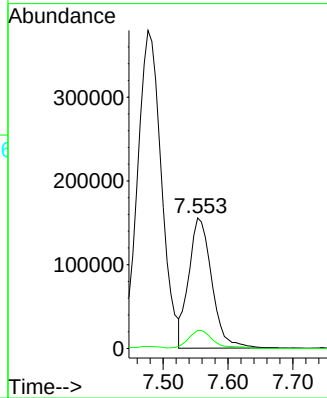
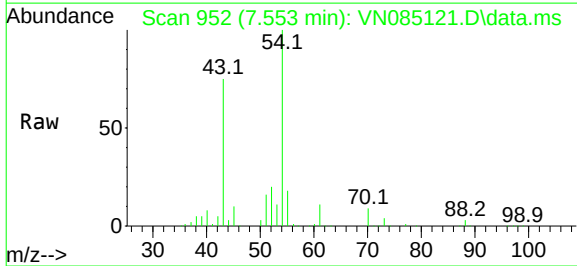
#43
Ethyl Acetate
Concen: 156.937 ug/l
RT: 7.553 min Scan# 952
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 382630
Ion Ratio Lower Upper
43 100
45 14.9 13.3 19.9

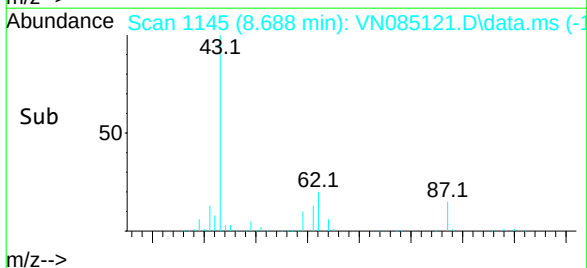
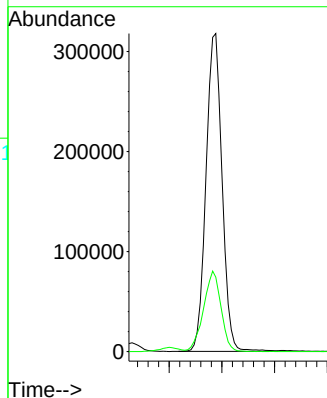
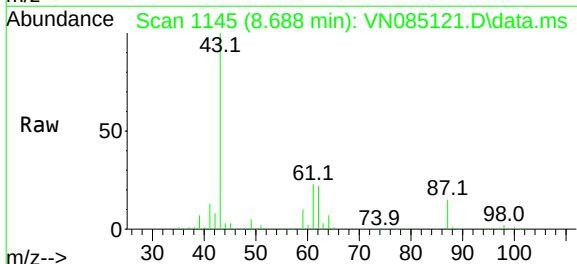
Manual Integrations
APPROVED

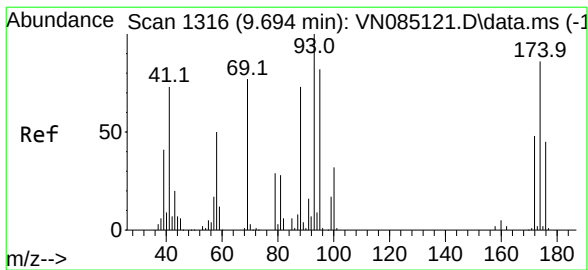
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#44
Isopropyl Acetate
Concen: 158.696 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

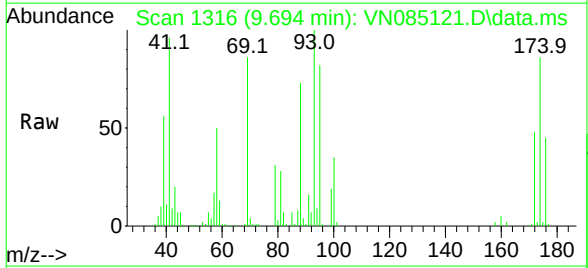
Tgt Ion: 43 Resp: 672392
Ion Ratio Lower Upper
43 100
61 27.5 21.5 32.3





#45
1,4-Dioxane
Concen: 3147.777 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

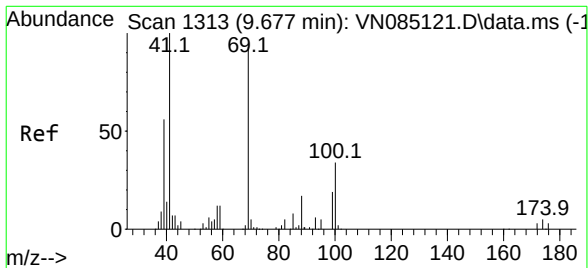
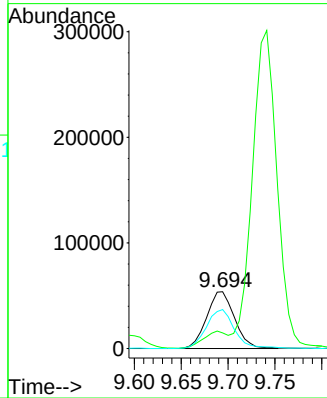
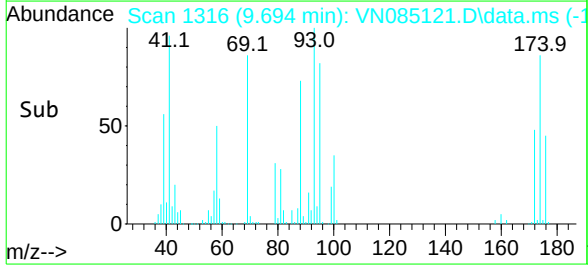
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion: 88 Resp: 111218
Ion Ratio Lower Upper
88 100
43 25.9 21.7 32.5
58 69.4 52.6 79.0

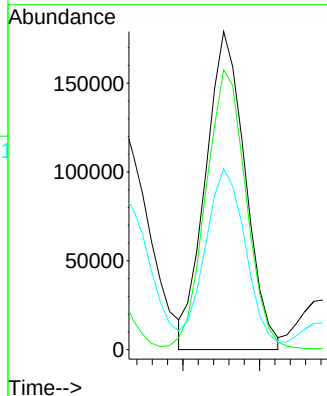
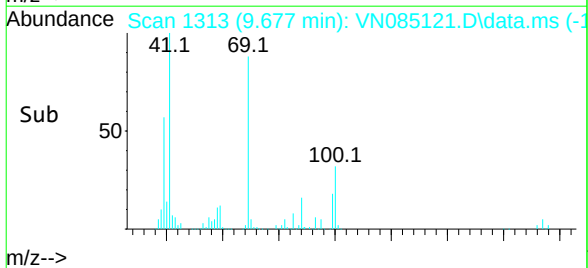
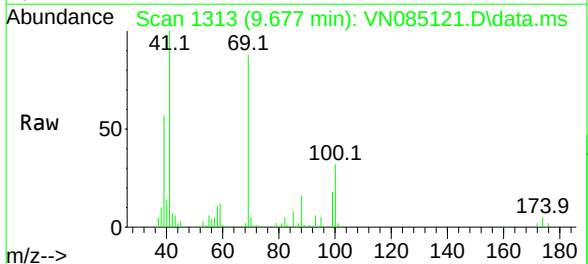
Manual Integrations
APPROVED

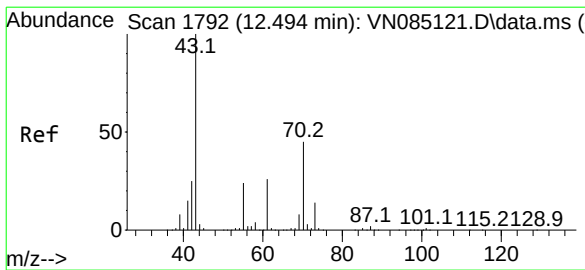
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#46
Methyl methacrylate
Concen: 165.471 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 41 Resp: 320862
Ion Ratio Lower Upper
41 100
69 88.7 46.7 140.0
39 56.7 28.5 85.5





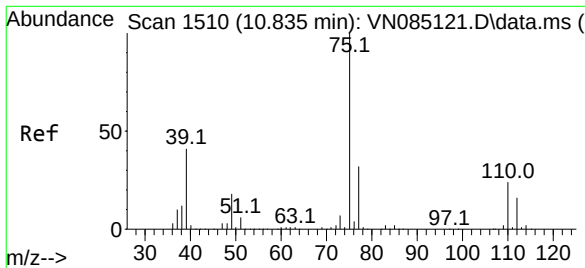
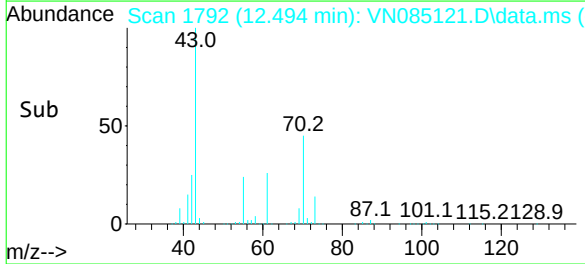
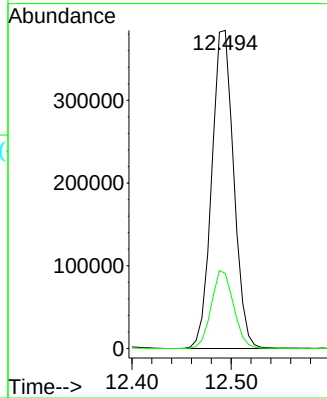
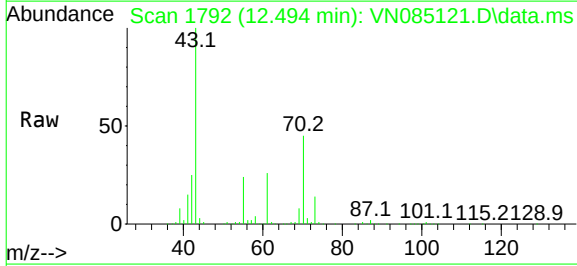
#47
n-amy1 Acetate
Concen: 166.246 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 592642
Ion Ratio Lower Upper
43 100
55 24.8 23.3 34.9

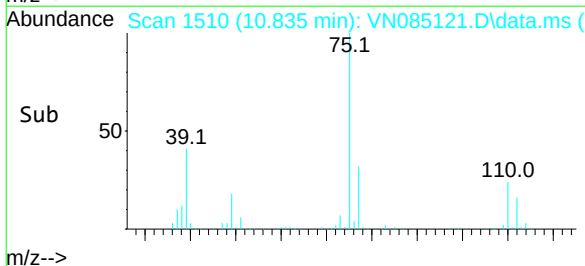
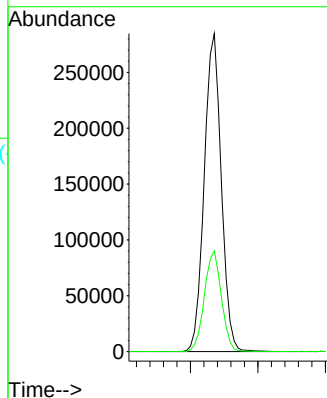
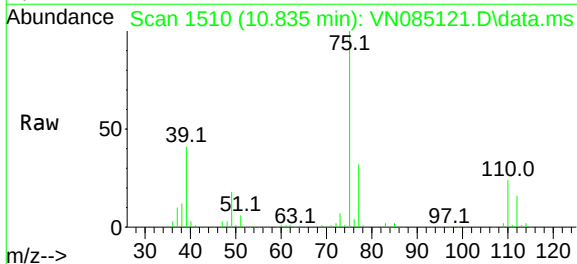
Manual Integrations
APPROVED

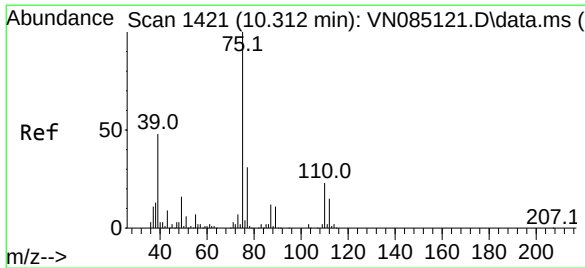
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#48
t-1,3-Dichloropropene
Concen: 163.202 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 75 Resp: 499133
Ion Ratio Lower Upper
75 100
77 31.7 25.5 38.3





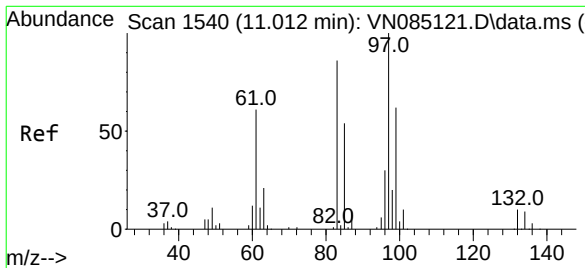
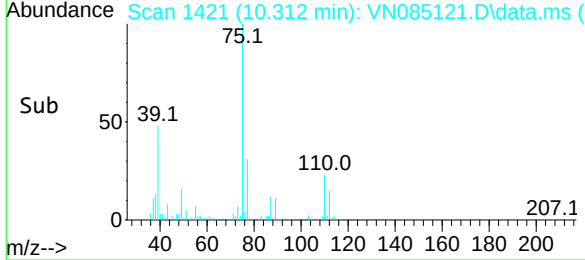
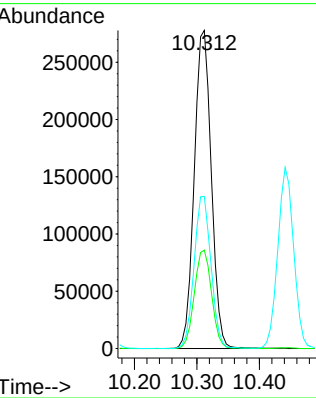
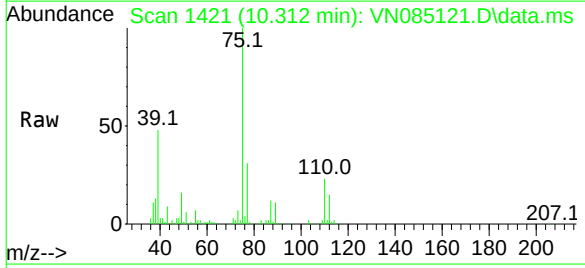
#49
cis-1,3-Dichloropropene
Concen: 157.986 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:	75	Resp:	525997
Ion	Ratio	Lower	Upper
75	100		
77	30.9	23.8	35.6
39	47.7	37.3	55.9

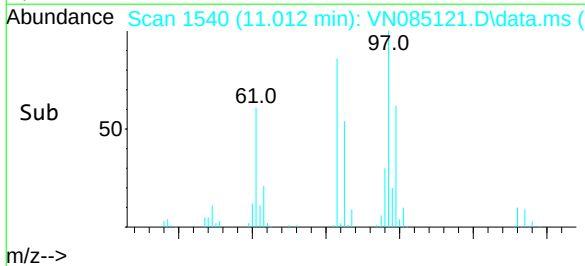
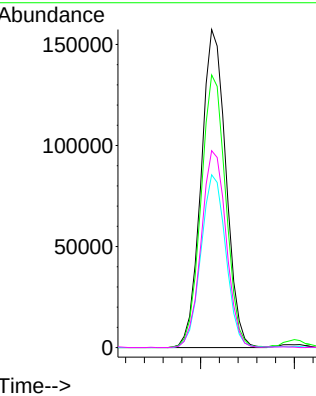
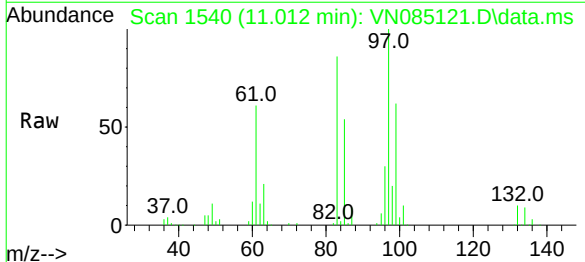
Manual Integrations
APPROVED

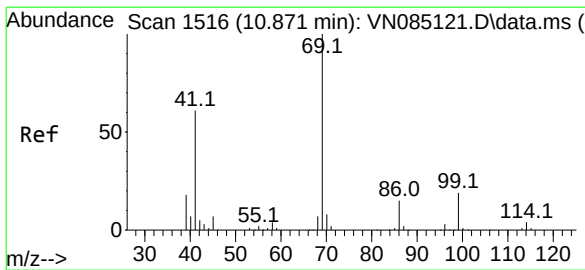
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#50
1,1,2-Trichloroethane
Concen: 147.159 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:	97	Resp:	289001
Ion	Ratio	Lower	Upper
97	100		
83	85.7	65.8	98.8
85	54.3	40.8	61.2
99	61.9	44.0	66.0





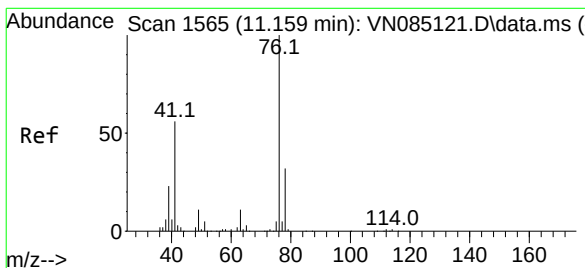
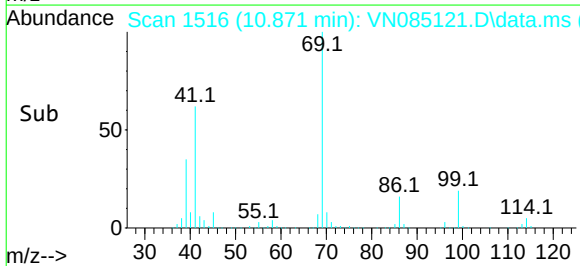
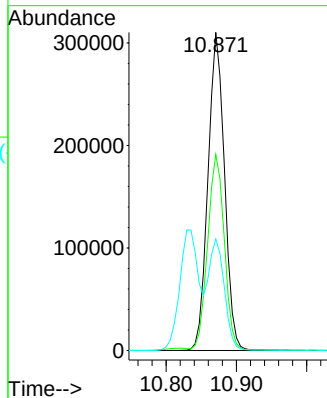
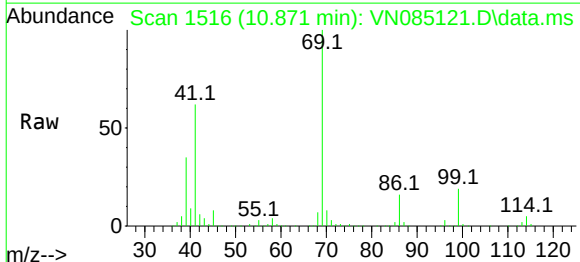
#51
Ethyl methacrylate
Concen: 169.495 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:	69	Resp:	506274
Ion	Ratio	Lower	Upper
69	100		
41	61.4	32.1	96.3
39	35.0	18.8	56.4

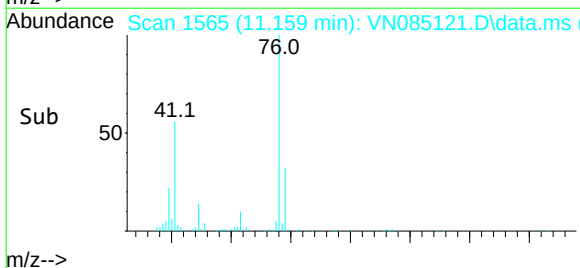
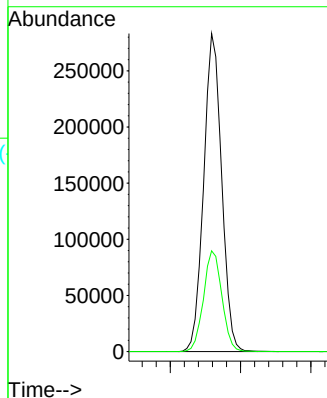
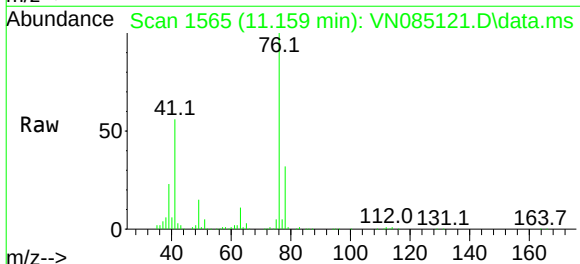
Manual Integrations
APPROVED

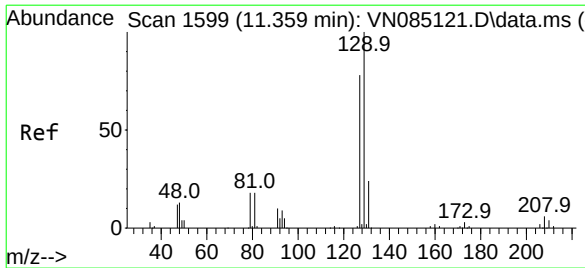
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#52
1,3-Dichloropropane
Concen: 152.638 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:	76	Resp:	501665
Ion	Ratio	Lower	Upper
76	100		
78	32.5	0.0	65.6





#53

Dibromochloromethane

Concen: 151.395 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:129 Resp: 362326

Ion Ratio Lower Upper

129 100

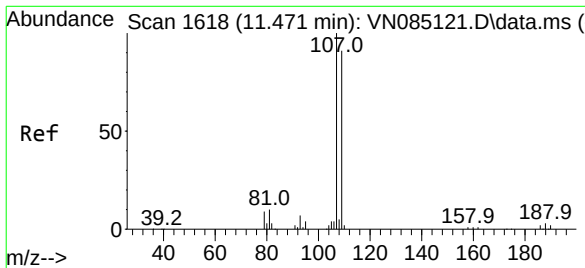
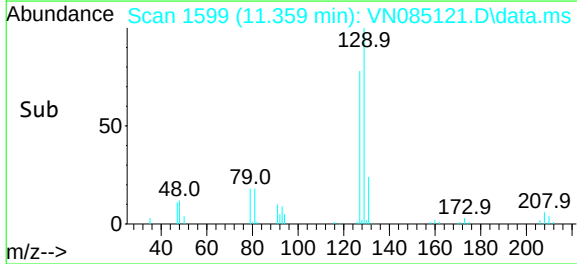
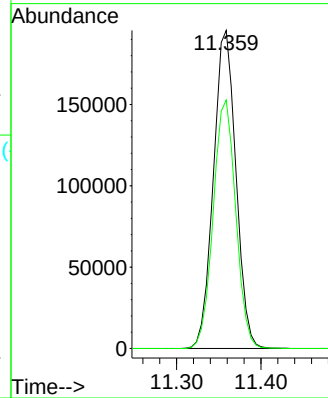
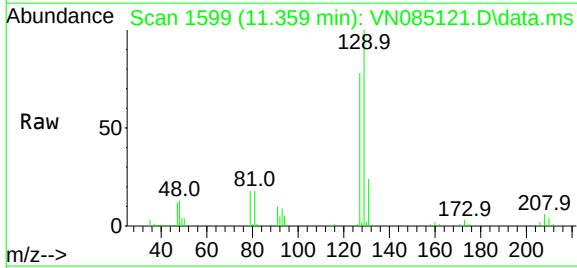
127 78.1 37.3 111.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#54

1,2-Dibromoethane

Concen: 154.261 ug/l

RT: 11.471 min Scan# 1618

Delta R.T. 0.006 min

Lab File: VN085121.D

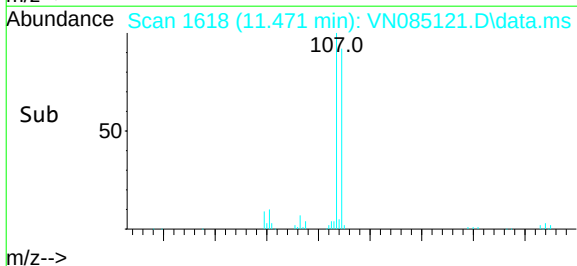
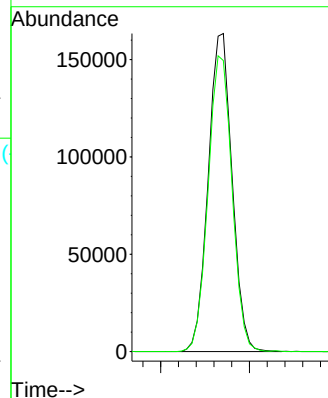
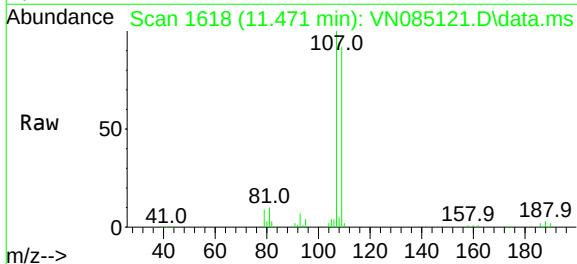
Acq: 06 Dec 2024 11:37

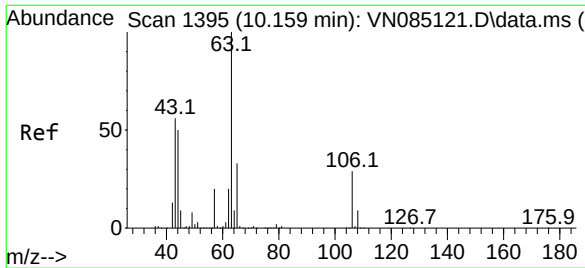
Tgt Ion:107 Resp: 305232

Ion Ratio Lower Upper

107 100

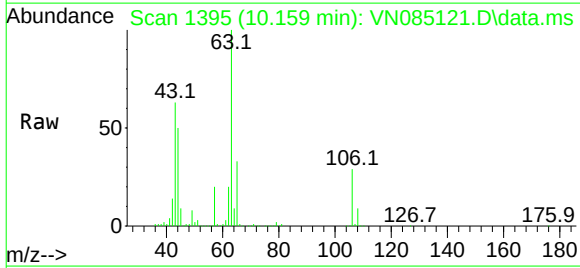
109 93.3 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 801.795 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

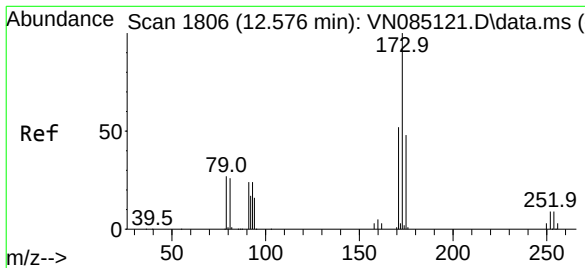
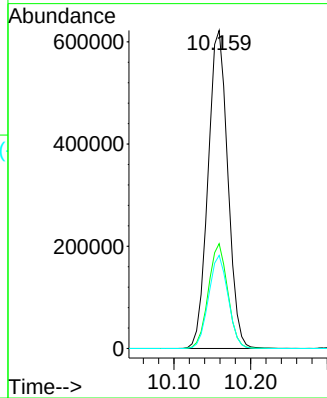
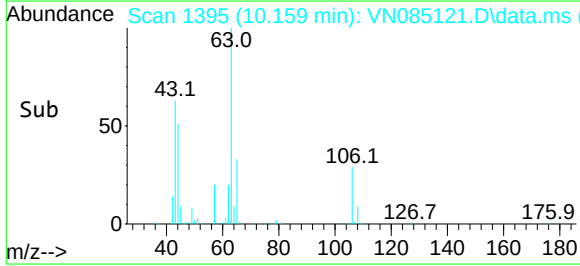
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



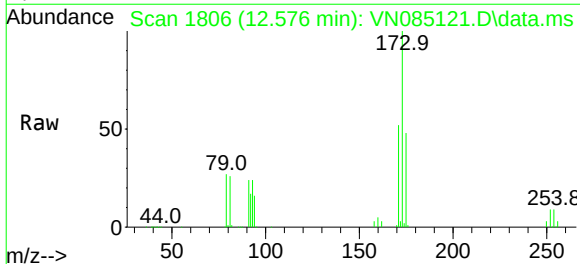
Tgt Ion: 63 Resp: 1112538
Ion Ratio Lower Upper
63 100
65 32.2 25.9 38.9
106 28.9 23.5 35.3

Manual Integrations
APPROVED

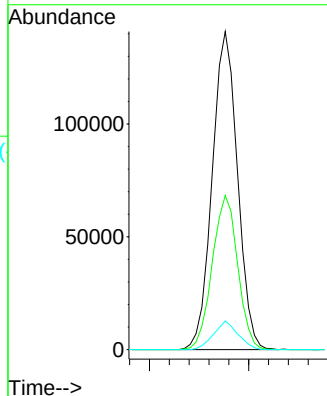
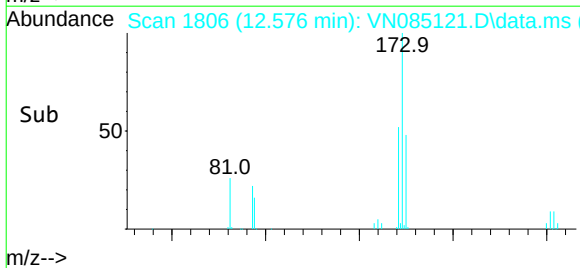
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

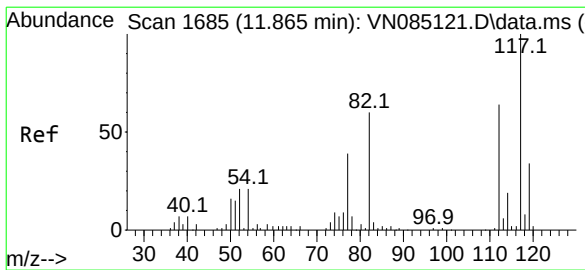


#56
Bromoform
Concen: 155.551 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37



Tgt Ion:173 Resp: 249601
Ion Ratio Lower Upper
173 100
175 48.6 40.2 60.2
254 8.7 6.2 9.4





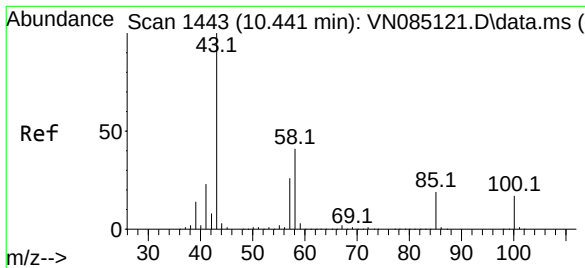
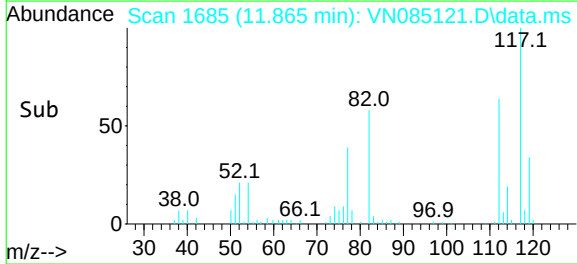
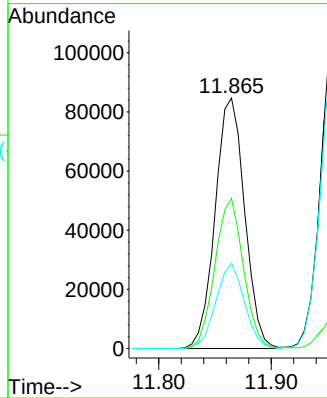
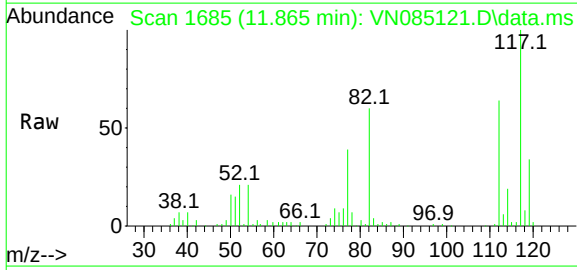
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:117 Resp: 154258
Ion Ratio Lower Upper
117 100
82 57.8 44.2 66.4
119 32.7 25.4 38.2

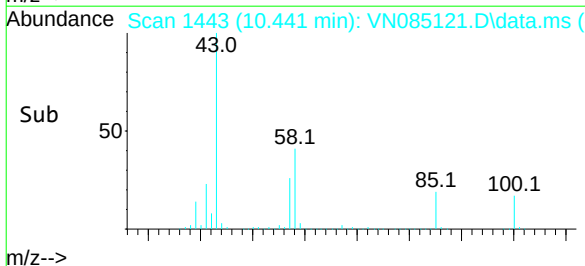
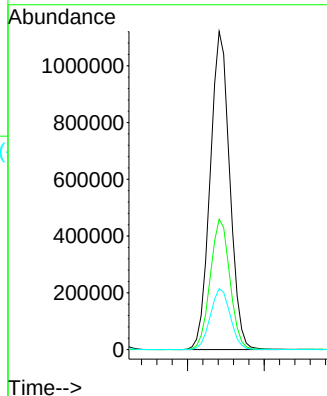
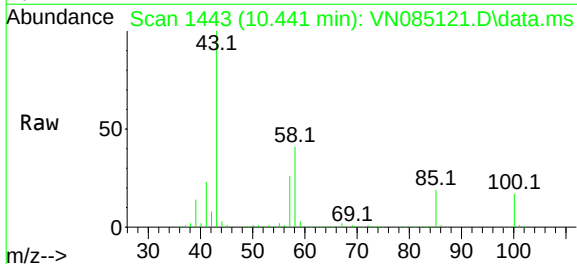
Manual Integrations
APPROVED

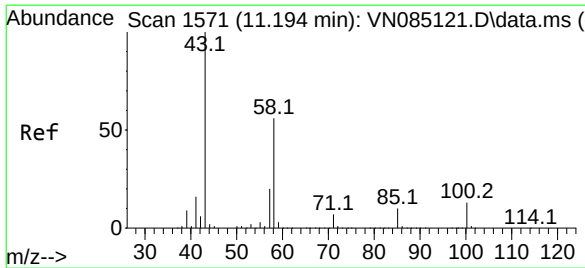
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#58
4-Methyl-2-Pentanone
Concen: 789.691 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

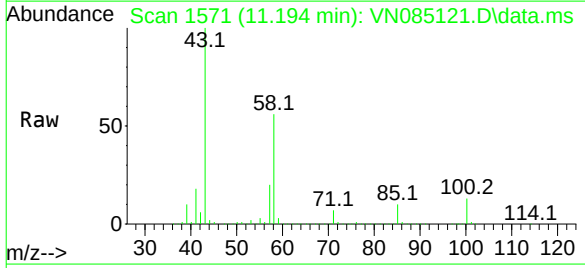
Tgt Ion: 43 Resp: 1988082
Ion Ratio Lower Upper
43 100
58 41.2 31.6 47.4
85 19.5 15.0 22.6





#59
2-Hexanone
Concen: 790.966 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

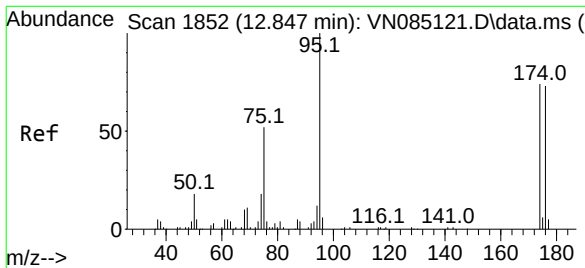
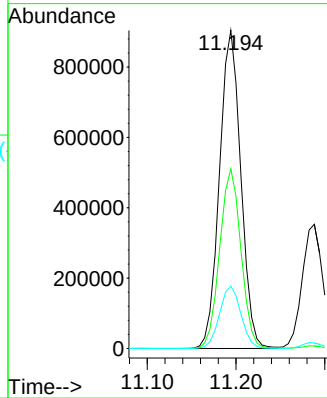
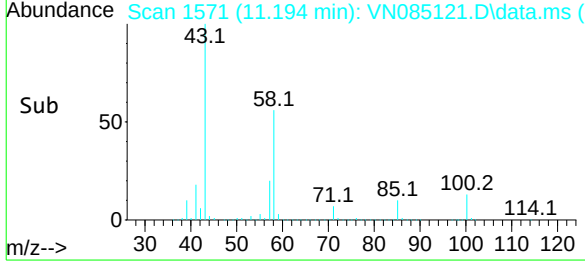
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



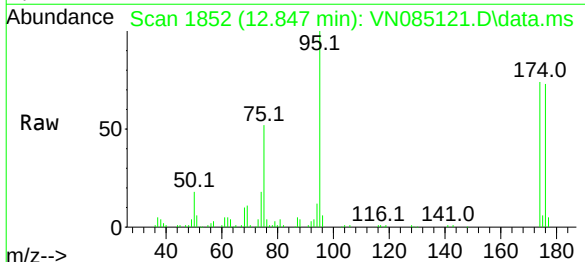
Tgt Ion: 43 Resp: 1508817
Ion Ratio Lower Upper
43 100
58 56.3 43.6 65.4
57 19.7 15.4 23.0

Manual Integrations
APPROVED

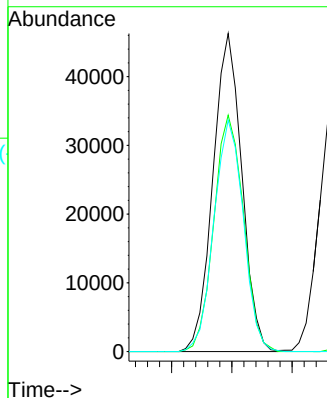
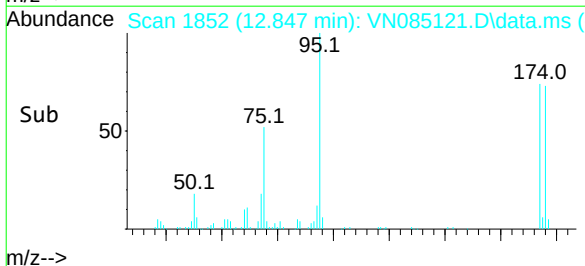
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

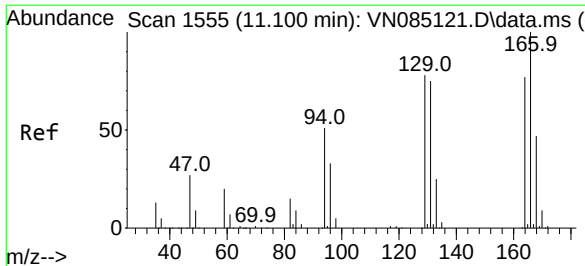


#60
4-Bromofluorobenzene
Concen: 30.183 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37



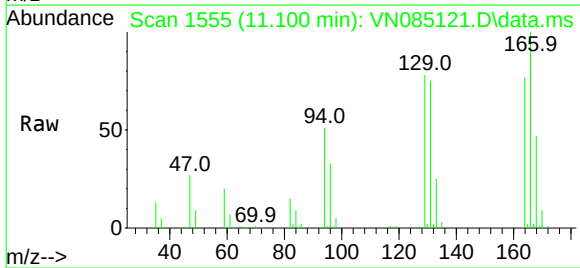
Tgt Ion: 95 Resp: 77038
Ion Ratio Lower Upper
95 100
174 76.4 60.3 90.5
176 74.3 57.4 86.0





#61
Tetrachloroethene
Concen: 144.976 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

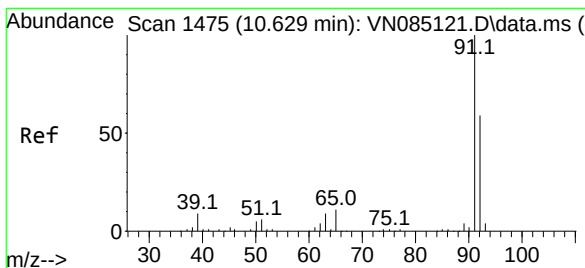
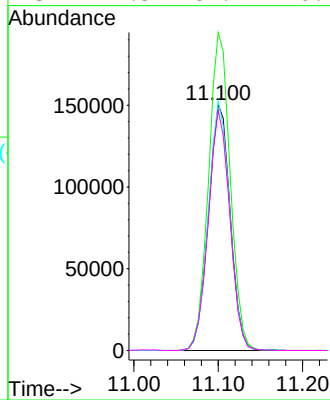
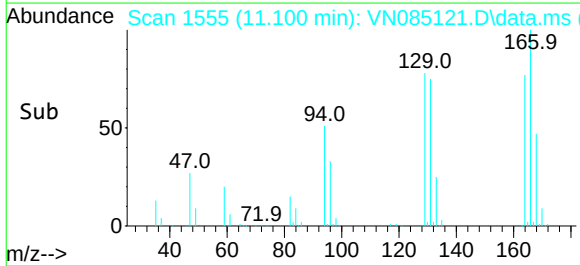
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion:164 Resp: 270825
Ion Ratio Lower Upper
164 100
166 129.3 103.8 155.8
129 101.3 84.2 126.4
131 97.5 84.1 126.1

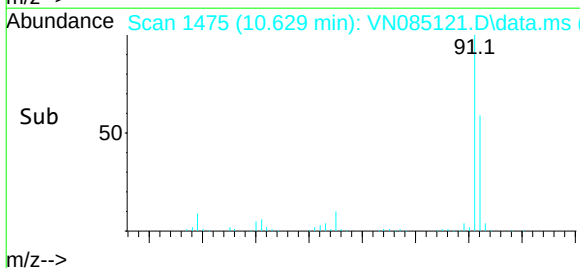
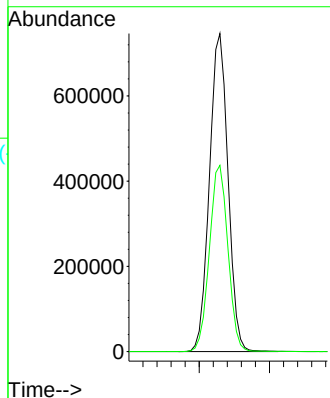
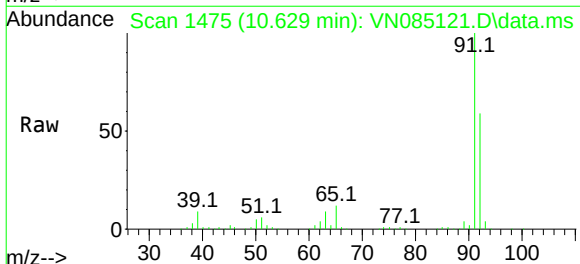
Manual Integrations
APPROVED

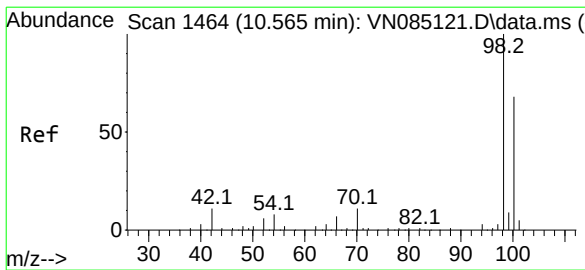
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#62
Toluene
Concen: 152.311 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 91 Resp: 1370241
Ion Ratio Lower Upper
91 100
92 58.5 46.5 69.7





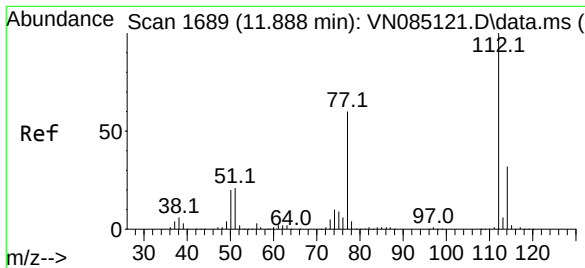
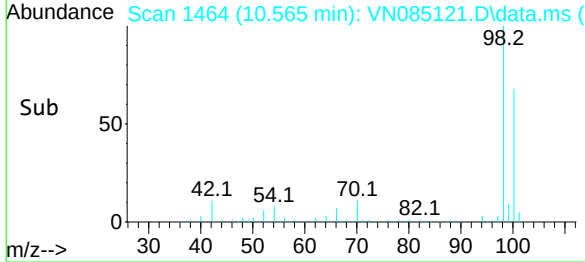
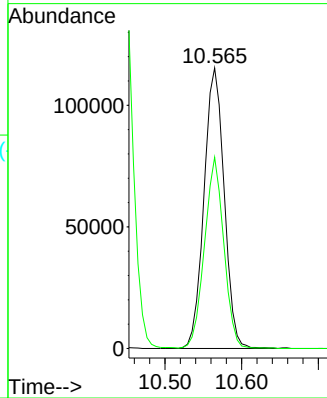
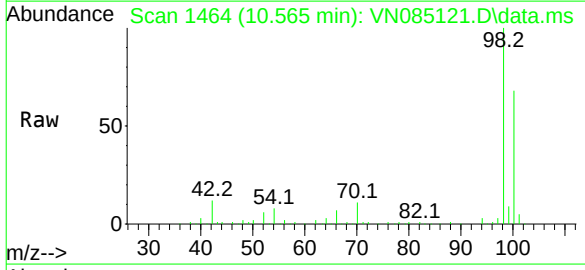
#63
Toluene-d8
Concen: 29.150 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 98 Resp: 210929
Ion Ratio Lower Upper
98 100
100 65.2 52.0 78.0

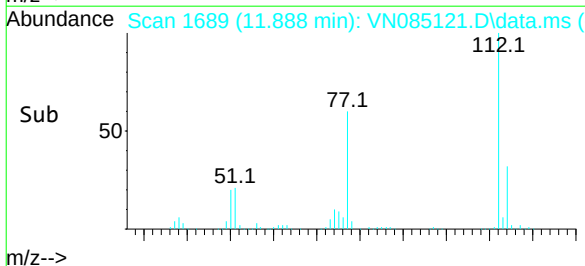
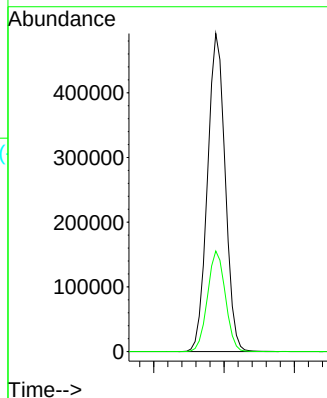
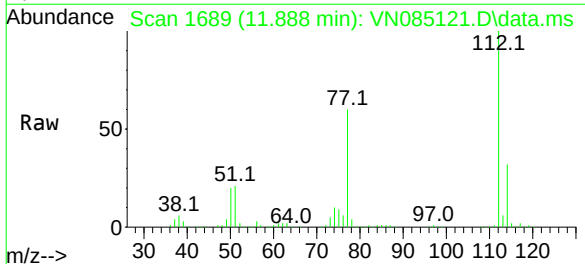
Manual Integrations
APPROVED

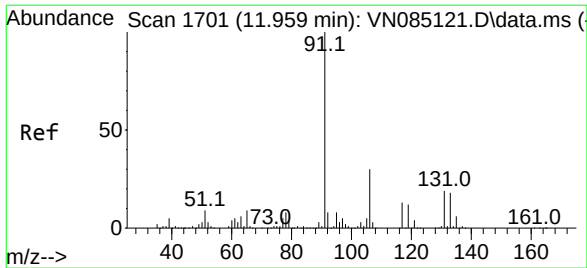
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#64
Chlorobenzene
Concen: 154.562 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

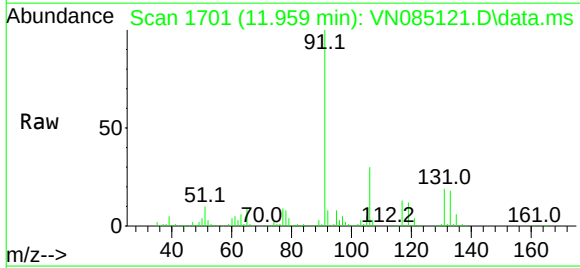
Tgt Ion:112 Resp: 858494
Ion Ratio Lower Upper
112 100
114 31.6 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 150.134 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

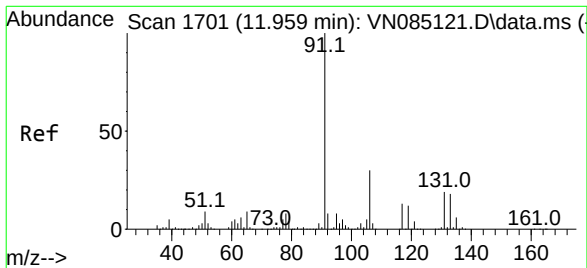
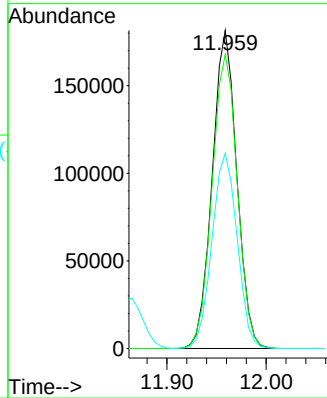
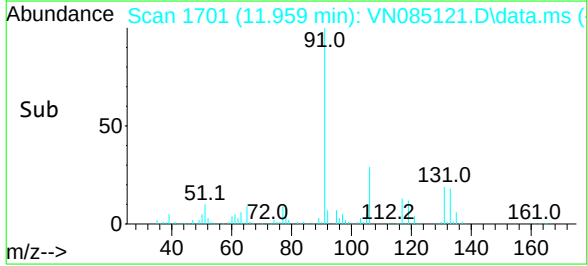
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion:131 Resp: 311301
Ion Ratio Lower Upper
131 100
133 95.3 0.0 194.0
119 63.1 0.0 131.8

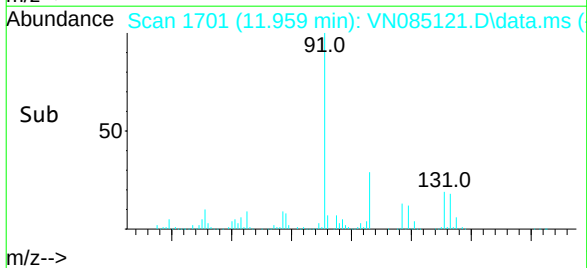
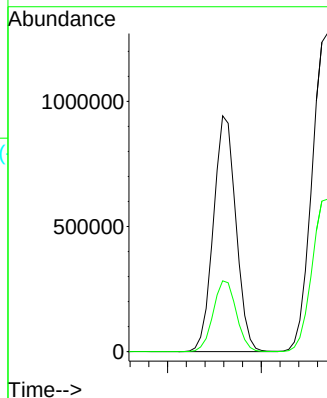
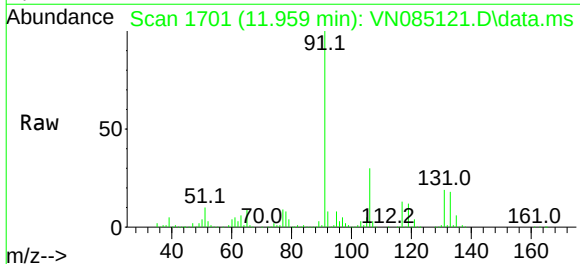
Manual Integrations
APPROVED

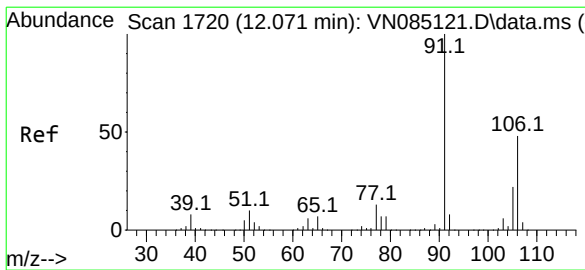
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#66
Ethyl Benzene
Concen: 164.874 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 91 Resp: 1573924
Ion Ratio Lower Upper
91 100
106 30.0 23.1 34.7





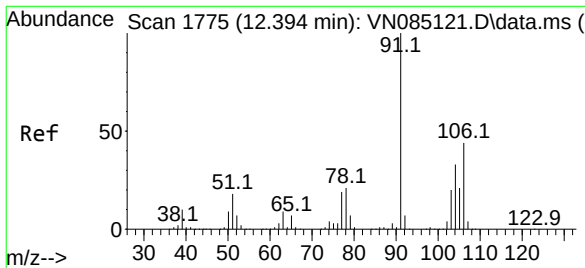
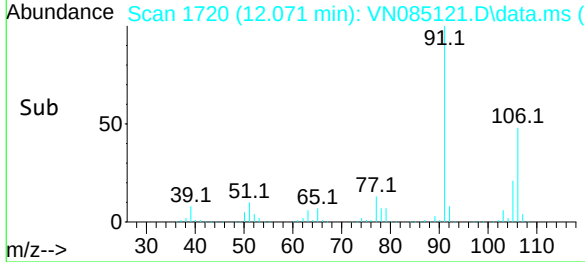
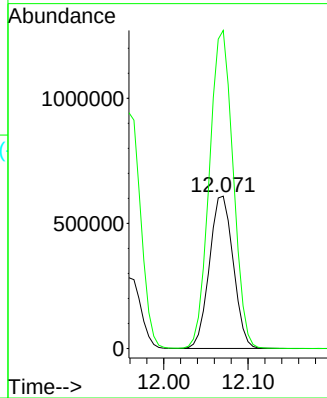
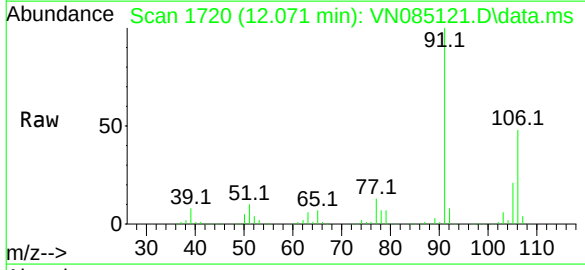
#67
m/p-Xylenes
Concen: 325.683 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 1195807
Ion Ratio Lower Upper
106 100
91 208.3 165.0 247.4

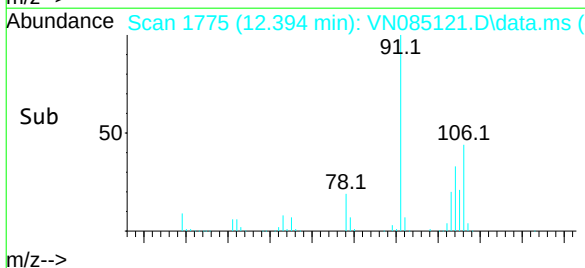
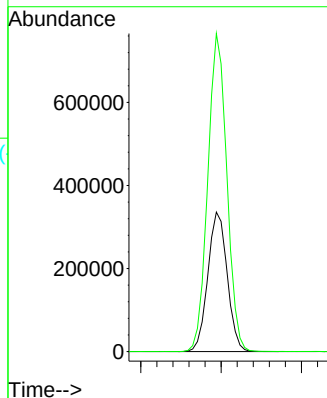
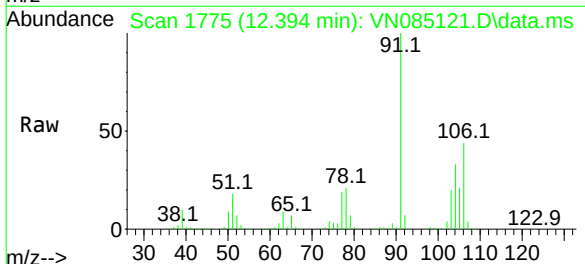
Manual Integrations
APPROVED

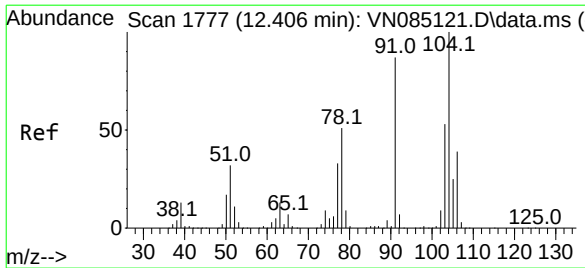
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#68
o-Xylene
Concen: 163.091 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:106 Resp: 562377
Ion Ratio Lower Upper
106 100
91 224.1 112.1 336.4





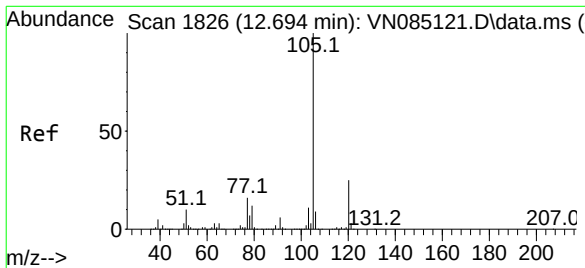
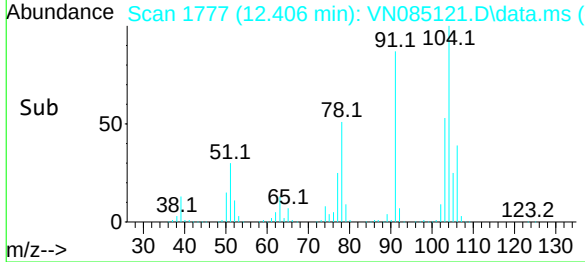
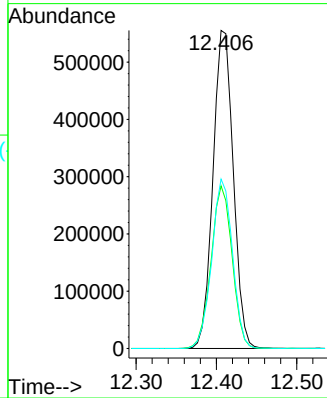
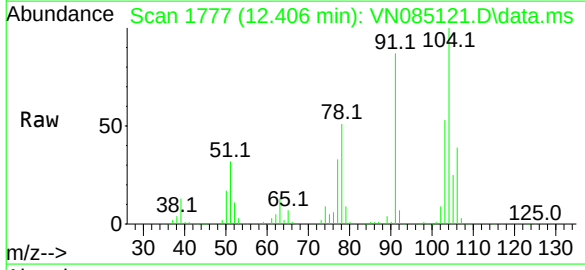
#69
Styrene
Concen: 166.883 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:104 Resp: 976478
Ion Ratio Lower Upper
104 100
78 53.0 42.3 63.5
103 54.4 44.4 66.6

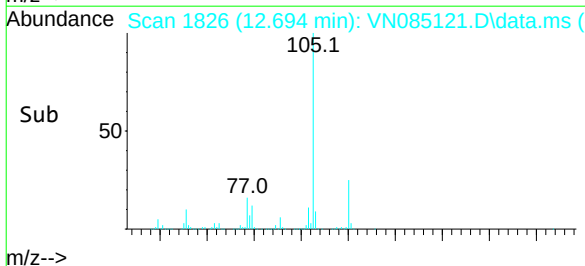
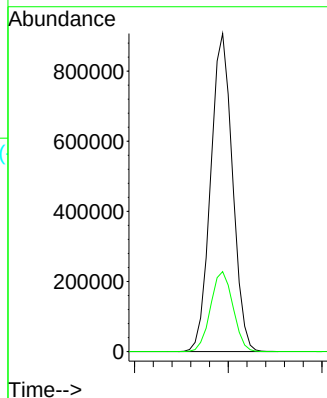
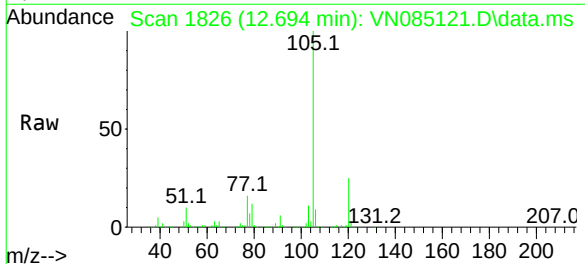
Manual Integrations
APPROVED

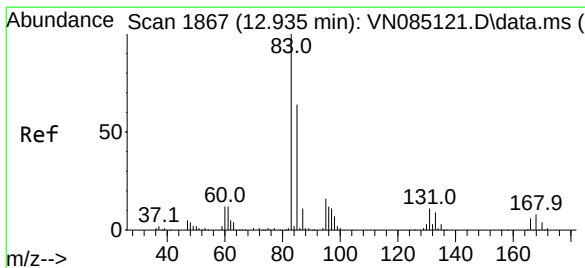
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#70
Isopropylbenzene
Concen: 165.057 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:105 Resp: 1467994
Ion Ratio Lower Upper
105 100
120 25.8 18.3 33.9





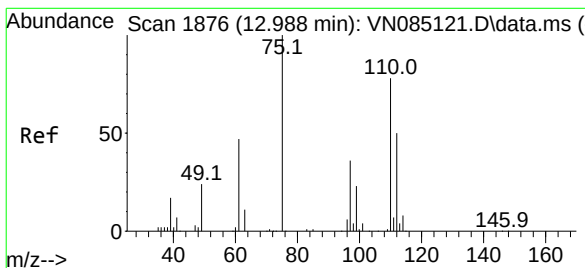
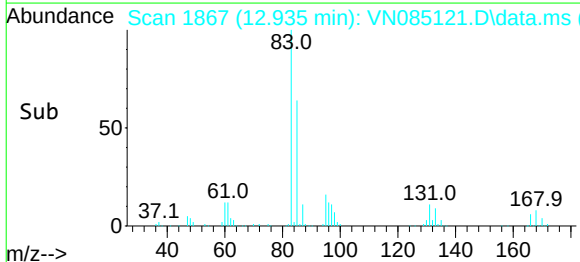
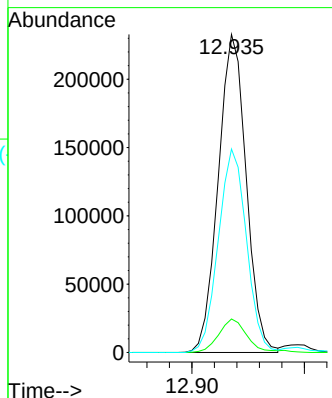
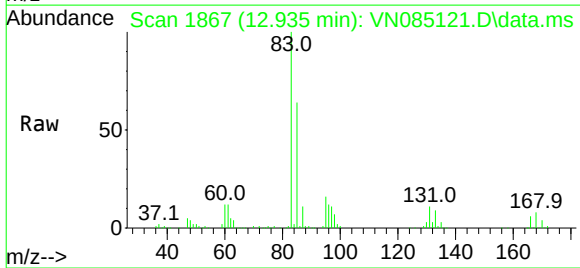
#71
1,1,2,2-Tetrachloroethane
Concen: 148.393 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:	83	Resp:	401707
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.3
85	64.4	31.1	93.5

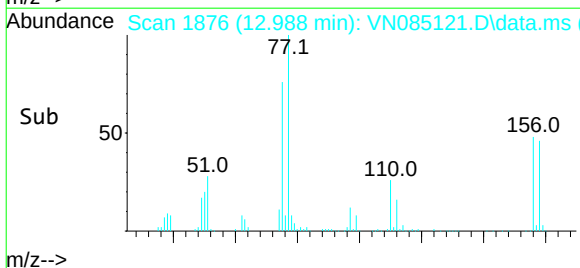
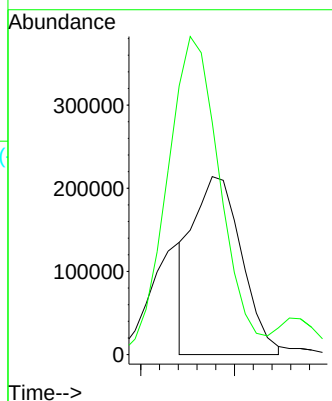
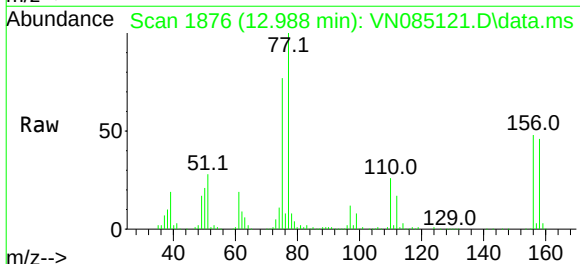
Manual Integrations
APPROVED

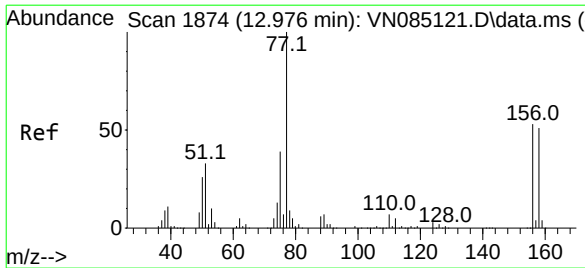
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#72
1,2,3-Trichloropropane
Concen: 144.654 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:	75	Resp:	386819
Ion	Ratio	Lower	Upper
75	100		
77	196.0	0.0	339.0





#73

Bromobenzene

Concen: 156.185 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

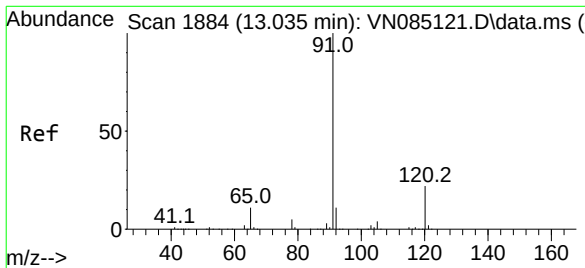
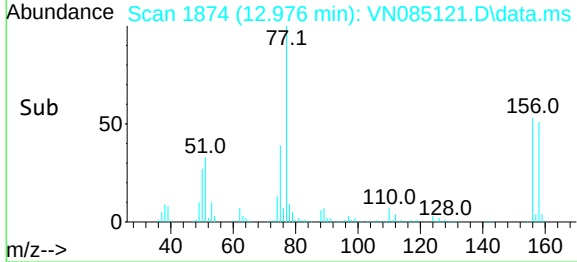
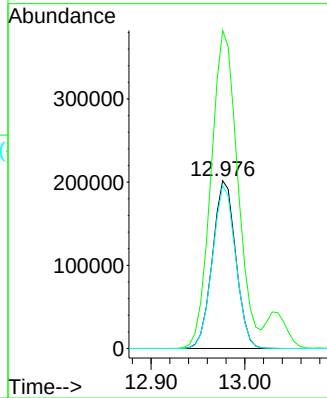
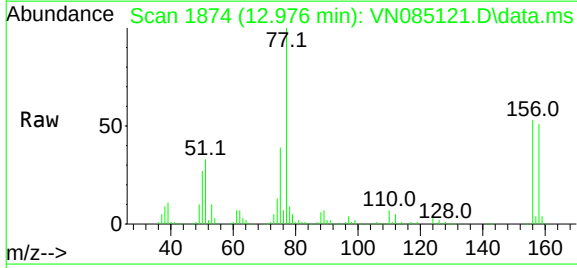
VSTDIC150

Tgt Ion:	156	Resp:	347939
Ion Ratio	Lower	Upper	
156	100		
77	217.9	0.0	430.4
158	97.0	0.0	195.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#74

n-propylbenzene

Concen: 163.317 ug/l

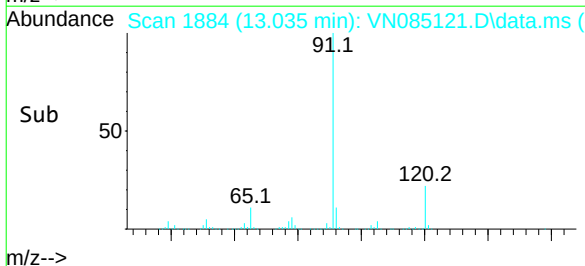
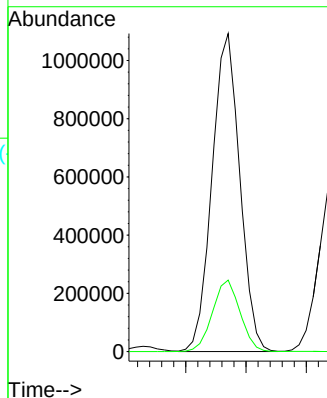
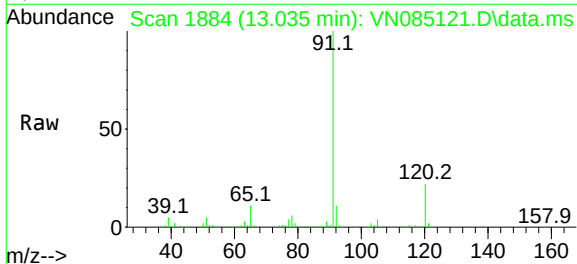
RT: 13.035 min Scan# 1884

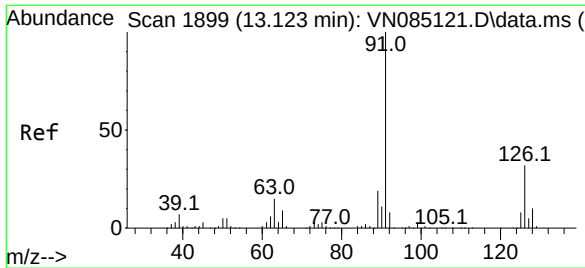
Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Tgt Ion:	91	Resp:	1746230
Ion Ratio	Lower	Upper	
91	100		
120	22.3	0.0	44.0





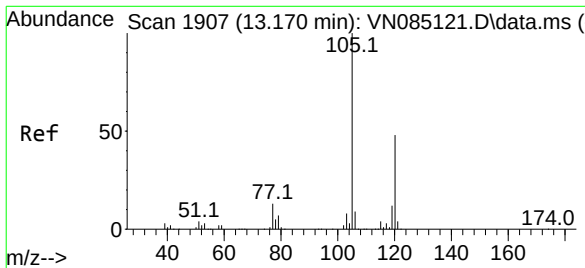
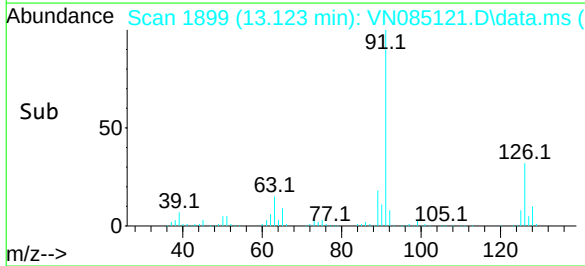
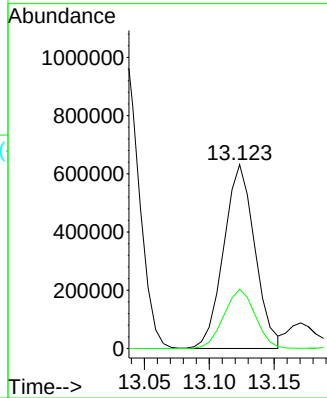
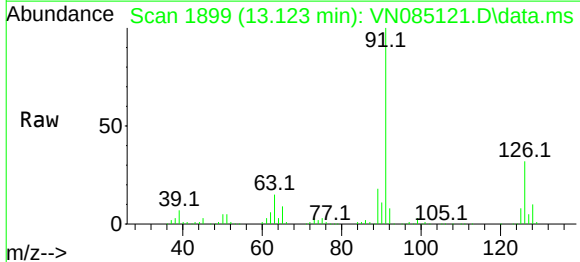
#75
2-Chlorotoluene
Concen: 159.945 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1057392
Ion Ratio Lower Upper
91 100
126 32.3 0.0 64.2

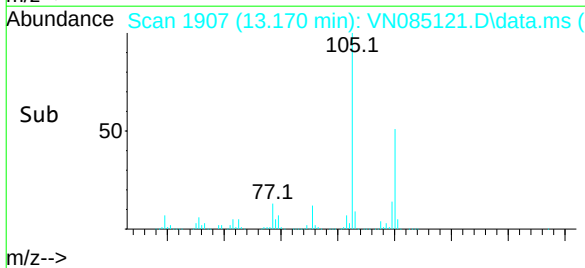
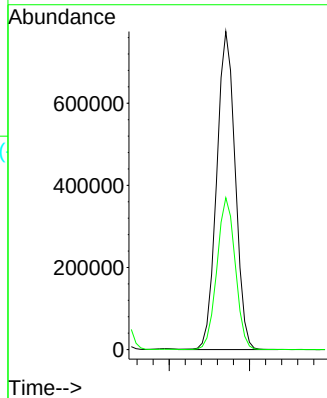
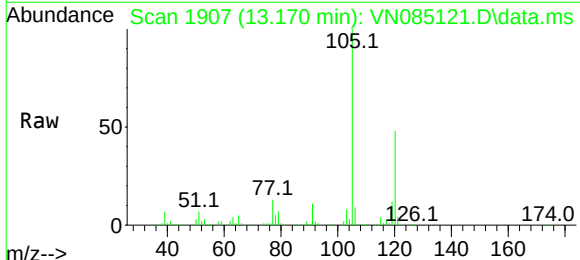
Manual Integrations
APPROVED

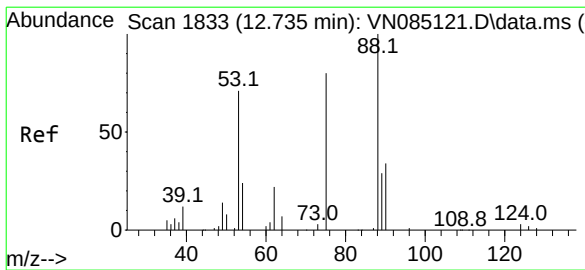
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#76
1,3,5-Trimethylbenzene
Concen: 162.904 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:105 Resp: 1241282
Ion Ratio Lower Upper
105 100
120 47.2 0.0 94.4





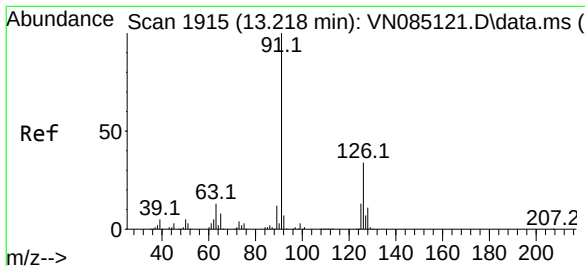
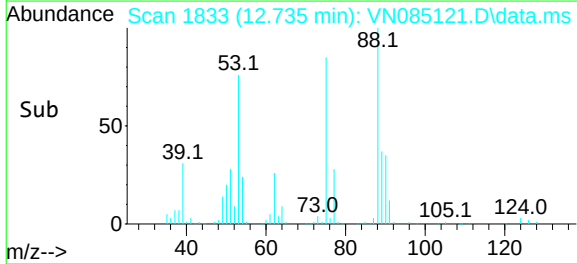
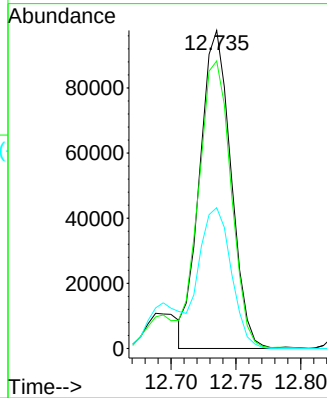
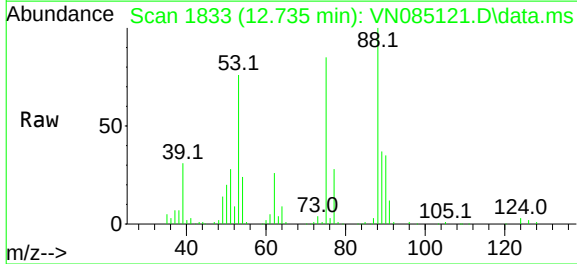
#77
t-1,4-Dichloro-2-butene
Concen: 168.075 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 75 Resp: 163318
Ion Ratio Lower Upper
75 100
53 90.2 49.1 147.3
89 44.4 22.9 68.5

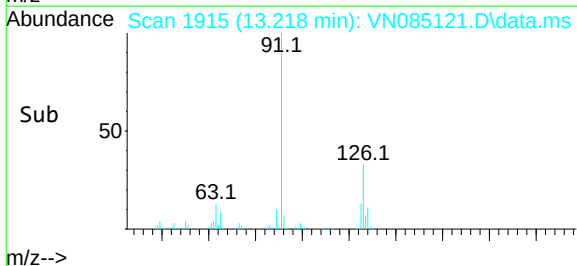
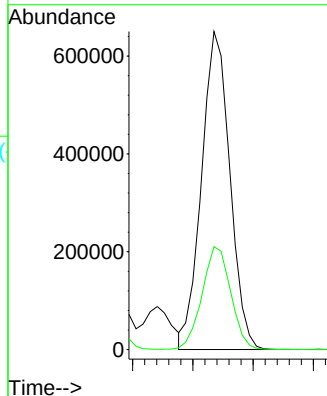
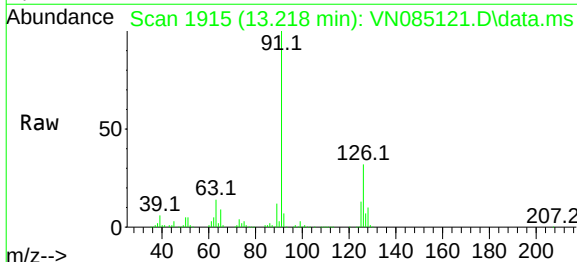
Manual Integrations
APPROVED

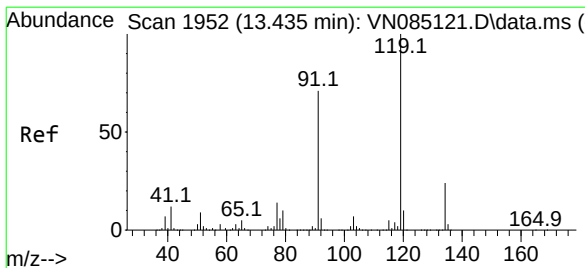
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#78
4-Chlorotoluene
Concen: 158.383 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 91 Resp: 1062762
Ion Ratio Lower Upper
91 100
126 32.7 0.0 64.4





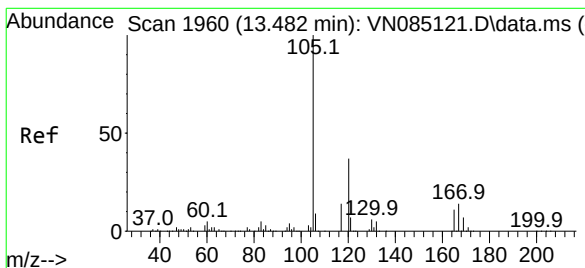
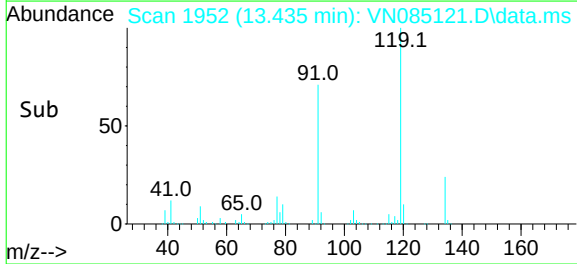
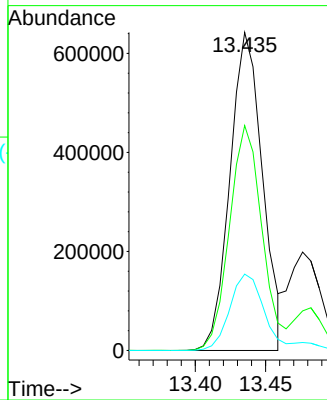
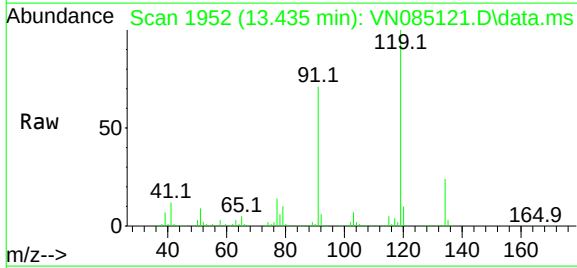
#79
tert-butylbenzene
Concen: 165.137 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1033507
Ion Ratio Lower Upper
119 100
91 71.2 0.0 139.2
134 24.9 0.0 48.0

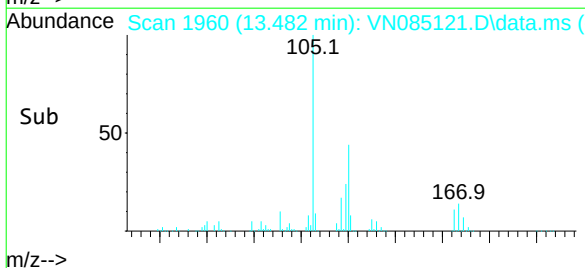
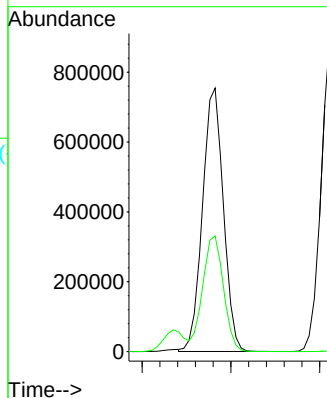
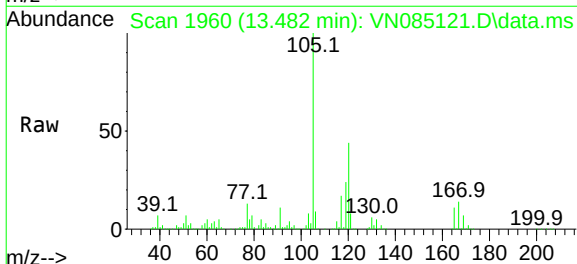
Manual Integrations
APPROVED

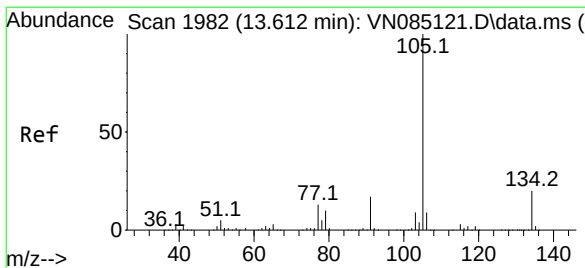
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#80
1,2,4-Trimethylbenzene
Concen: 163.500 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:105 Resp: 1230594
Ion Ratio Lower Upper
105 100
120 43.7 0.0 87.4





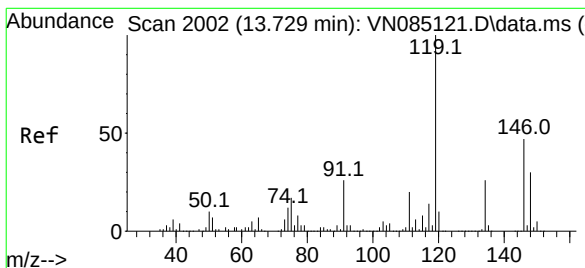
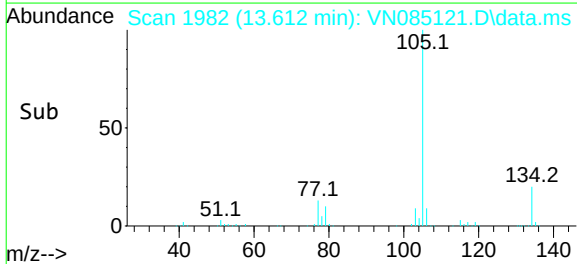
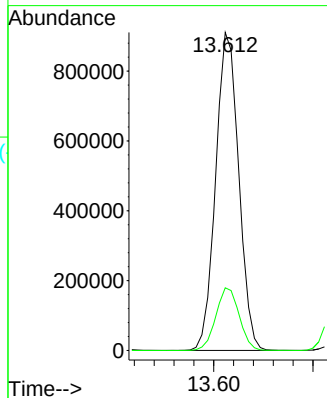
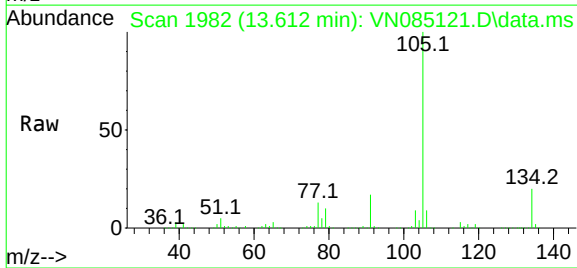
#81
sec-Butylbenzene
Concen: 164.927 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1466428
Ion Ratio Lower Upper
105 100
134 20.0 0.0 38.0

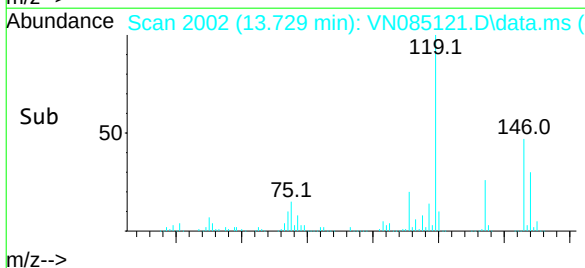
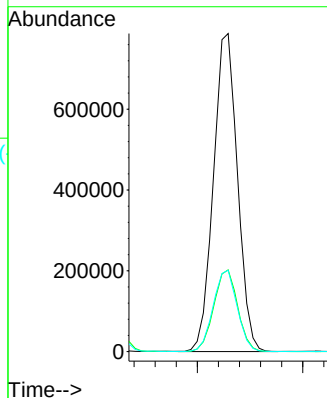
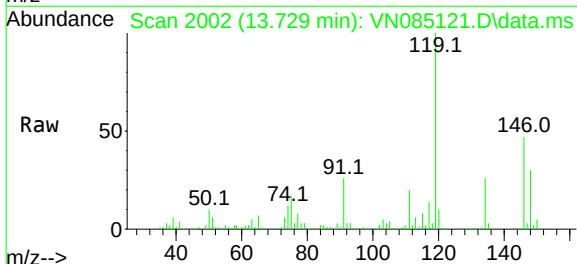
Manual Integrations
APPROVED

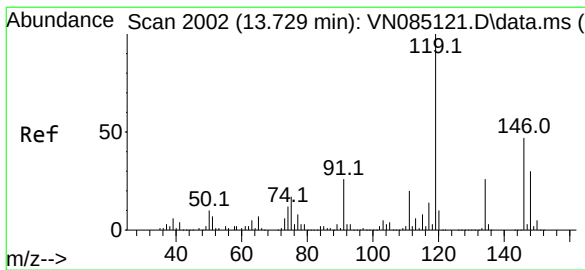
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#82
p-Isopropyltoluene
Concen: 169.455 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:119 Resp: 1249133
Ion Ratio Lower Upper
119 100
134 25.5 0.0 51.6
91 25.5 0.0 50.4





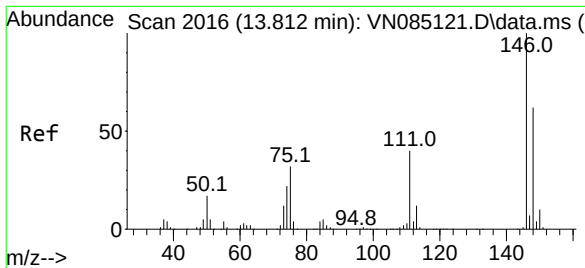
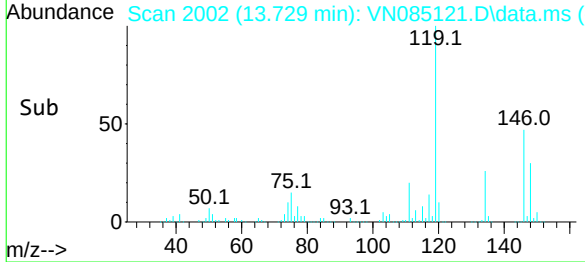
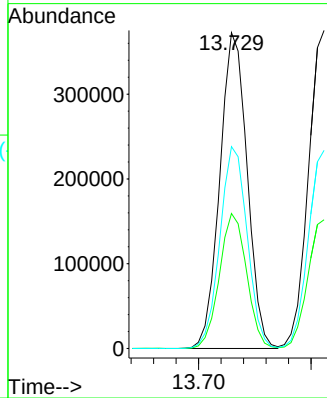
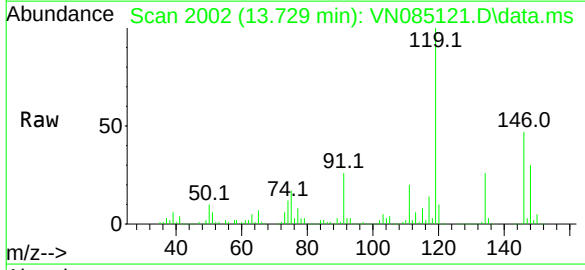
#83
1,3-Dichlorobenzene
Concen: 153.943 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:	146	Resp:	629183
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.1	63.3
148	63.9	31.8	95.3

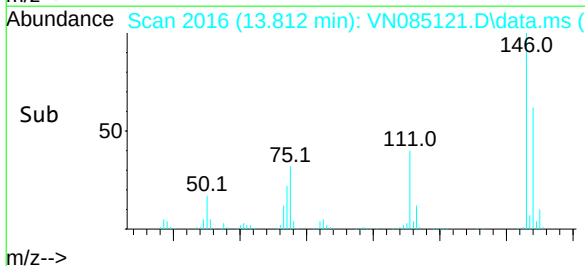
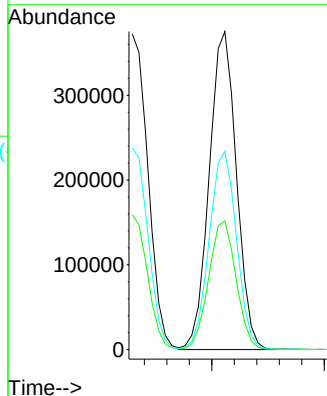
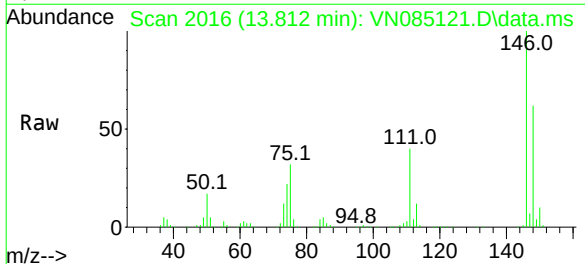
Manual Integrations
APPROVED

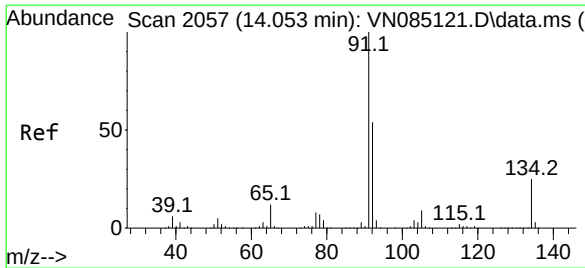
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#84
1,4-Dichlorobenzene
Concen: 158.368 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:	146	Resp:	630821
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.1	60.3
148	62.6	31.6	94.7





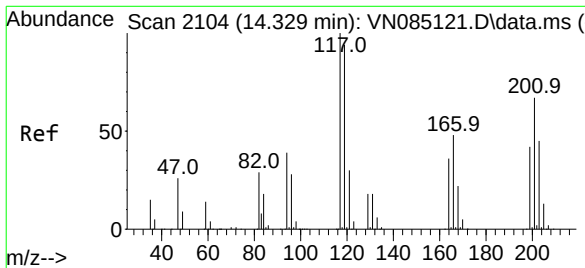
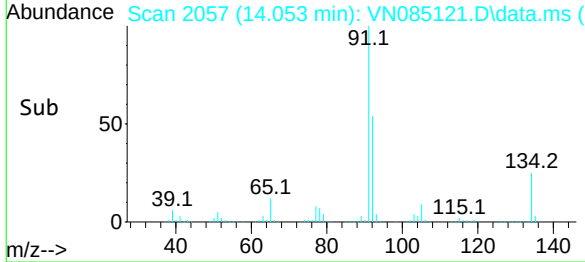
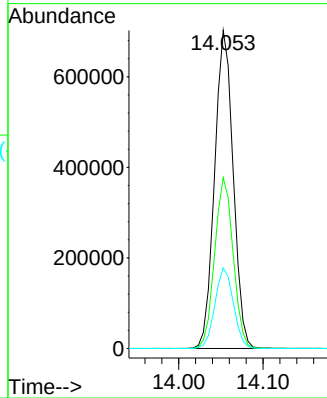
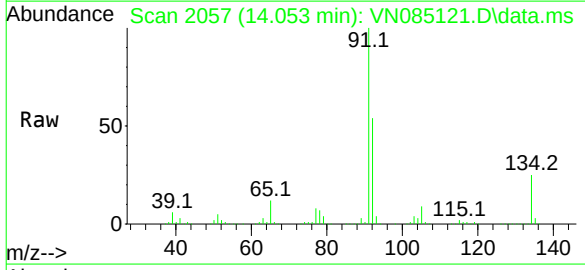
#85
n-Butylbenzene
Concen: 174.069 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1076317
Ion Ratio Lower Upper
91 100
92 53.4 0.0 104.0
134 25.1 0.0 49.2

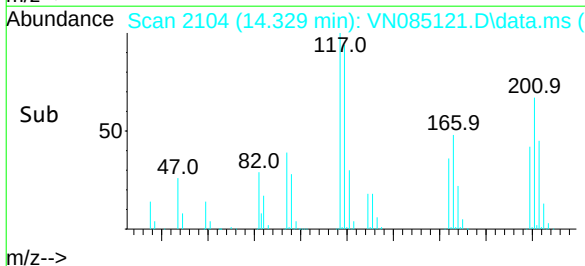
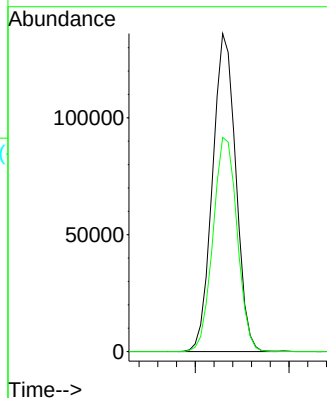
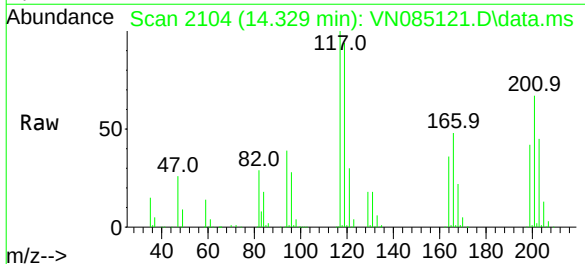
Manual Integrations
APPROVED

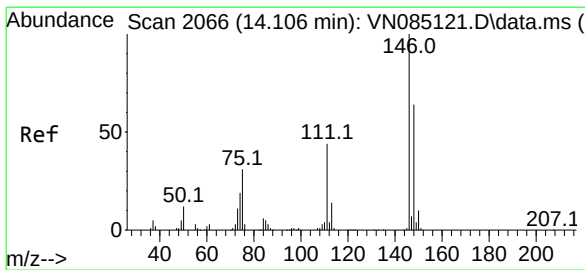
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#86
Hexachloroethane
Concen: 160.002 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:117 Resp: 234799
Ion Ratio Lower Upper
117 100
201 69.7 34.1 102.3





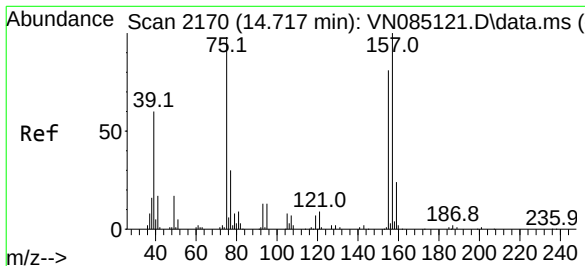
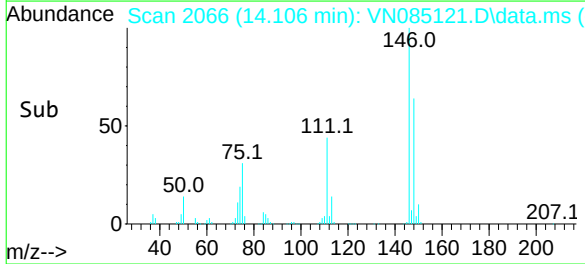
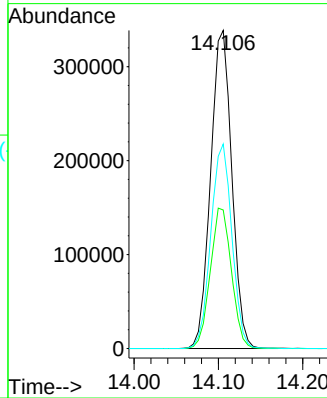
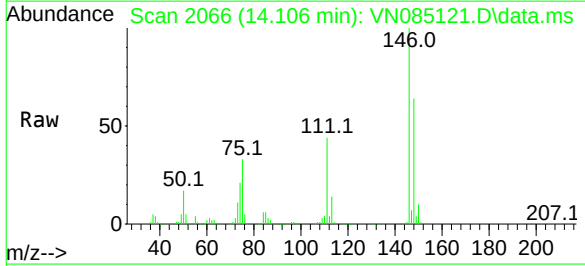
#87
1,2-Dichlorobenzene
Concen: 153.379 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:	146	Resp:	591716
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.9	65.7
148	64.0	32.4	97.0

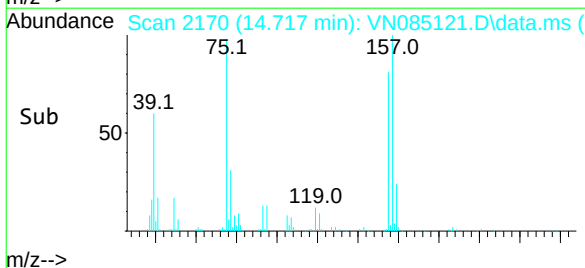
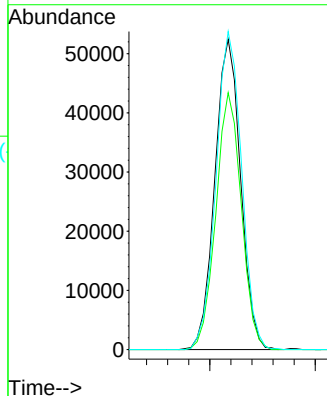
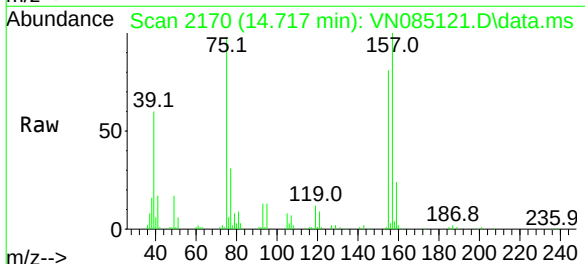
Manual Integrations
APPROVED

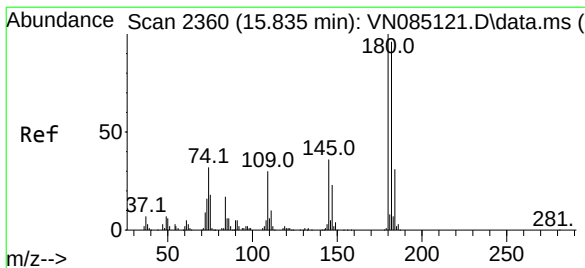
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 164.781 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:	75	Resp:	89112
Ion	Ratio	Lower	Upper
75	100		
155	81.7	62.1	93.1
157	101.9	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 175.876 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 332292

Ion Ratio Lower Upper

180 100

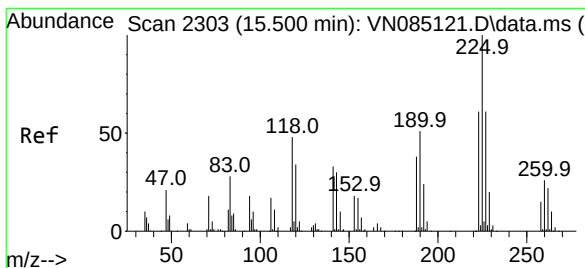
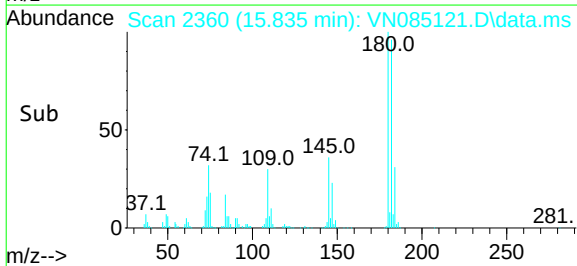
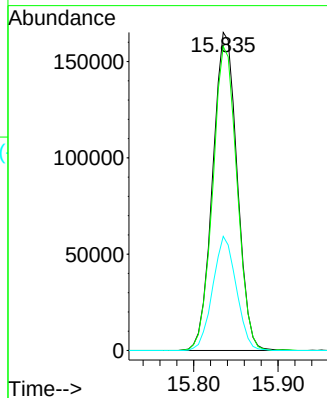
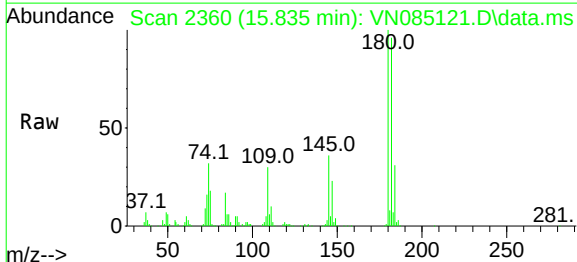
182 94.7 74.0 111.0

145 34.7 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#90

Hexachlorobutadiene

Concen: 153.643 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

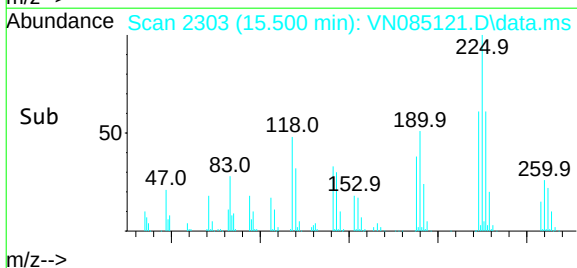
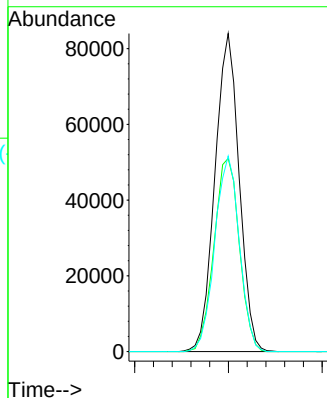
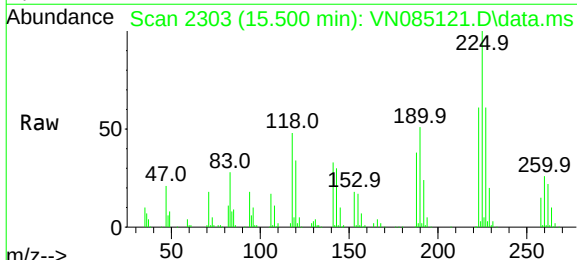
Tgt Ion:225 Resp: 150844

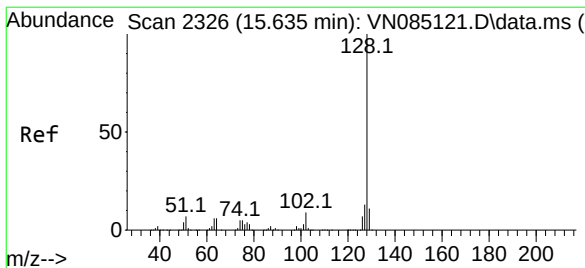
Ion Ratio Lower Upper

225 100

223 63.5 0.0 121.8

227 62.3 0.0 126.8





#91

Naphthalene

Concen: 190.174 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:128 Resp: 1116289

Ion Ratio Lower Upper

128 100

127 12.8 11.0 16.4

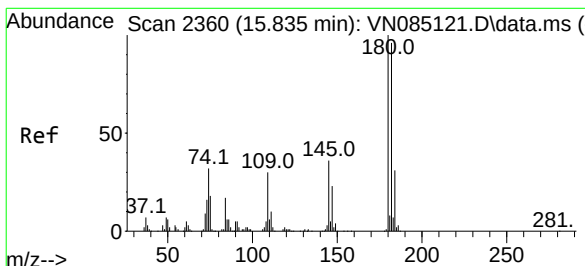
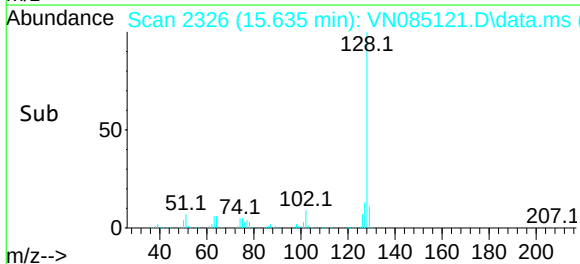
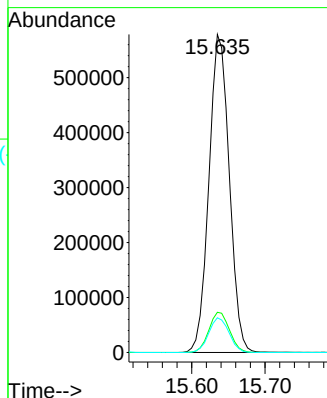
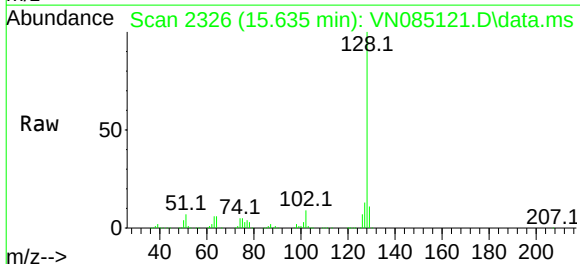
129 10.9 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 175.876 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

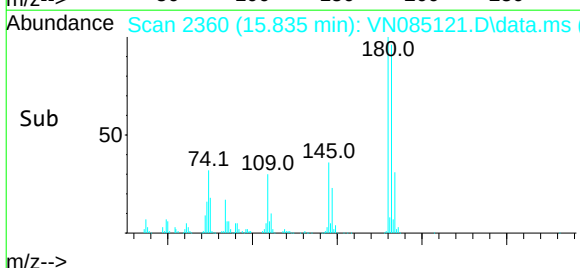
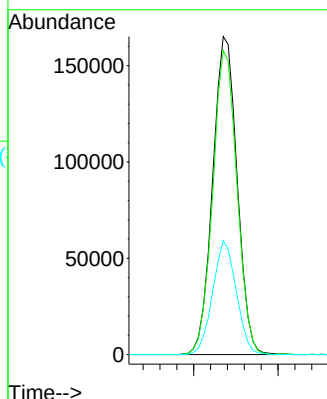
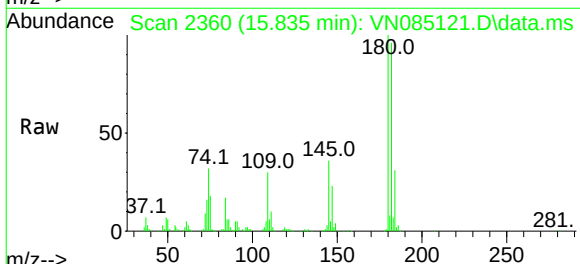
Tgt Ion:180 Resp: 332292

Ion Ratio Lower Upper

180 100

182 94.7 0.0 185.0

145 34.7 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085123.D
 Acq On : 06 Dec 2024 12:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

Quant Time: Dec 06 23:06:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

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

Internal Standards						
1) Bromochloromethane	7.818	128	34320	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185717	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	167596	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80315	29.493	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.300%		
60) 4-Bromofluorobenzene	12.847	95	85871	30.966	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.233%		
63) Toluene-d8	10.565	98	238389	30.323	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.067%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	60791	22.140	ug/l	99
3) Chloromethane	2.359	50	54189	22.297	ug/l	94
4) Vinyl Chloride	2.512	62	53524	21.532	ug/l	96
5) Bromomethane	2.965	94	37678	23.874	ug/l	100
6) Chloroethane	3.124	64	34096	22.326	ug/l	96
7) Trichlorofluoromethane	3.500	101	88313	21.704	ug/l	97
8) Diethyl Ether	3.959	74	28800	22.346	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	50308	22.109	ug/l	97
10) 1,1-Dichloroethene	4.342	96	45812	21.919	ug/l	98
11) Methyl Iodide	4.589	142	63446	21.887	ug/l	96
12) Methyl Acetate	5.018	43	53958	21.883	ug/l	91
13) Acrolein	4.177	56	29807	83.185	ug/l	97
14) Acrylonitrile	5.718	53	111980	109.372	ug/l	96
15) Acetone	4.424	58	29118	104.948	ug/l	97
16) Carbon Disulfide	4.712	76	137866	22.068	ug/l	97
17) Allyl chloride	5.024	41	65461	21.888	ug/l	94
18) Methylene Chloride	5.283	84	49652	20.936	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	47495	21.862	ug/l	96
20) Diisopropyl ether	6.665	45	143427	21.853	ug/l	98
21) 1,1-Dichloroethane	6.565	63	88356	21.811	ug/l #	97
22) cis-1,2-Dichloroethene	7.488	96	56787	22.742	ug/l	98
23) tert-Butyl Alcohol	5.512	59	41094	111.884	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	145319	22.254	ug/l #	76
25) Chloroform	7.965	83	91959	21.669	ug/l	96
26) Cyclohexane	8.259	56	75227	22.553	ug/l	97
29) 1,1-Dichloropropene	8.371	75	65505	21.858	ug/l	99
30) 2-Butanone	7.483	43	147216	107.048	ug/l	98
31) 2,2-Dichloropropane	7.488	77	82584	21.490	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	86299	21.275	ug/l	99
33) Carbon Tetrachloride	8.359	117	76333	20.855	ug/l	95
34) Benzene	8.606	78	199228	21.162	ug/l	94
35) Methacrylonitrile	7.771	41	34766	22.464	ug/l	97
36) 1,2-Dichloroethane	8.665	62	68920	21.505	ug/l	100
37) Trichloroethene	9.347	130	48331	21.558	ug/l	92
38) Methylcyclohexane	9.600	83	71750	22.020	ug/l	95
39) 1,2-Dichloropropane	9.618	63	47583	20.867	ug/l	94
40) Dibromomethane	9.712	93	34556	21.127	ug/l	98
41) Bromodichloromethane	9.888	83	73839	21.117	ug/l	94
42) Vinyl Acetate	6.600	43	554646	115.256	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085123.D
 Acq On : 06 Dec 2024 12:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

Quant Time: Dec 06 23:06:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	62407	22.807	ug/l	93
44) Isopropyl Acetate	8.682	43	103521	21.770	ug/l	100
45) 1,4-Dioxane	9.694	88	17346	437.438	ug/l	96
46) Methyl methacrylate	9.677	41	47854	21.989	ug/l	96
47) n-amyl Acetate	12.488	43	87700	21.920	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	72633	21.161	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	79711	21.333	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	47258	21.441	ug/l	95
51) Ethyl methacrylate	10.871	69	74129	22.113	ug/l	97
52) 1,3-Dichloropropane	11.159	76	79252	21.486	ug/l	99
53) Dibromochloromethane	11.353	129	55601	20.701	ug/l	93
54) 1,2-Dibromoethane	11.465	107	47513	21.396	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	120953	77.670	ug/l	99
56) Bromoform	12.576	173	37077	20.588	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	305762	111.787	ug/l	99
59) 2-Hexanone	11.194	43	233377	112.607	ug/l	98
61) Tetrachloroethene	11.100	164	45248	22.294	ug/l	95
62) Toluene	10.629	91	214790	21.975	ug/l	99
64) Chlorobenzene	11.888	112	133437	22.112	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	48941	21.725	ug/l	98
66) Ethyl Benzene	11.965	91	231289	22.300	ug/l	96
67) m/p-Xylenes	12.070	106	182990	45.872	ug/l	99
68) o-Xylene	12.394	106	84266	22.492	ug/l	99
69) Styrene	12.412	104	145082	22.822	ug/l	99
70) Isopropylbenzene	12.694	105	217804	22.540	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	65321	22.210	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	68116m	23.445	ug/l	
73) Bromobenzene	12.976	156	53832	22.241	ug/l	99
74) n-propylbenzene	13.035	91	261027	22.470	ug/l	99
75) 2-Chlorotoluene	13.123	91	161221	22.446	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	189105	22.843	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22735	21.535	ug/l	99
78) 4-Chlorotoluene	13.217	91	163711	22.456	ug/l	100
79) tert-butylbenzene	13.435	119	152793	22.471	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	188016	22.992	ug/l	100
81) sec-Butylbenzene	13.612	105	221463	22.925	ug/l	99
82) p-Isopropyltoluene	13.729	119	181815	22.702	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	96640	21.763	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	98028	22.651	ug/l	99
85) n-Butylbenzene	14.053	91	148587	22.118	ug/l	98
86) Hexachloroethane	14.329	117	34505	21.642	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	92278	22.016	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12928	22.003	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	47265	23.026	ug/l	97
90) Hexachlorobutadiene	15.500	225	24662	23.121	ug/l	98
91) Naphthalene	15.641	128	145950	22.886	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	47265	23.026	ug/l	97

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

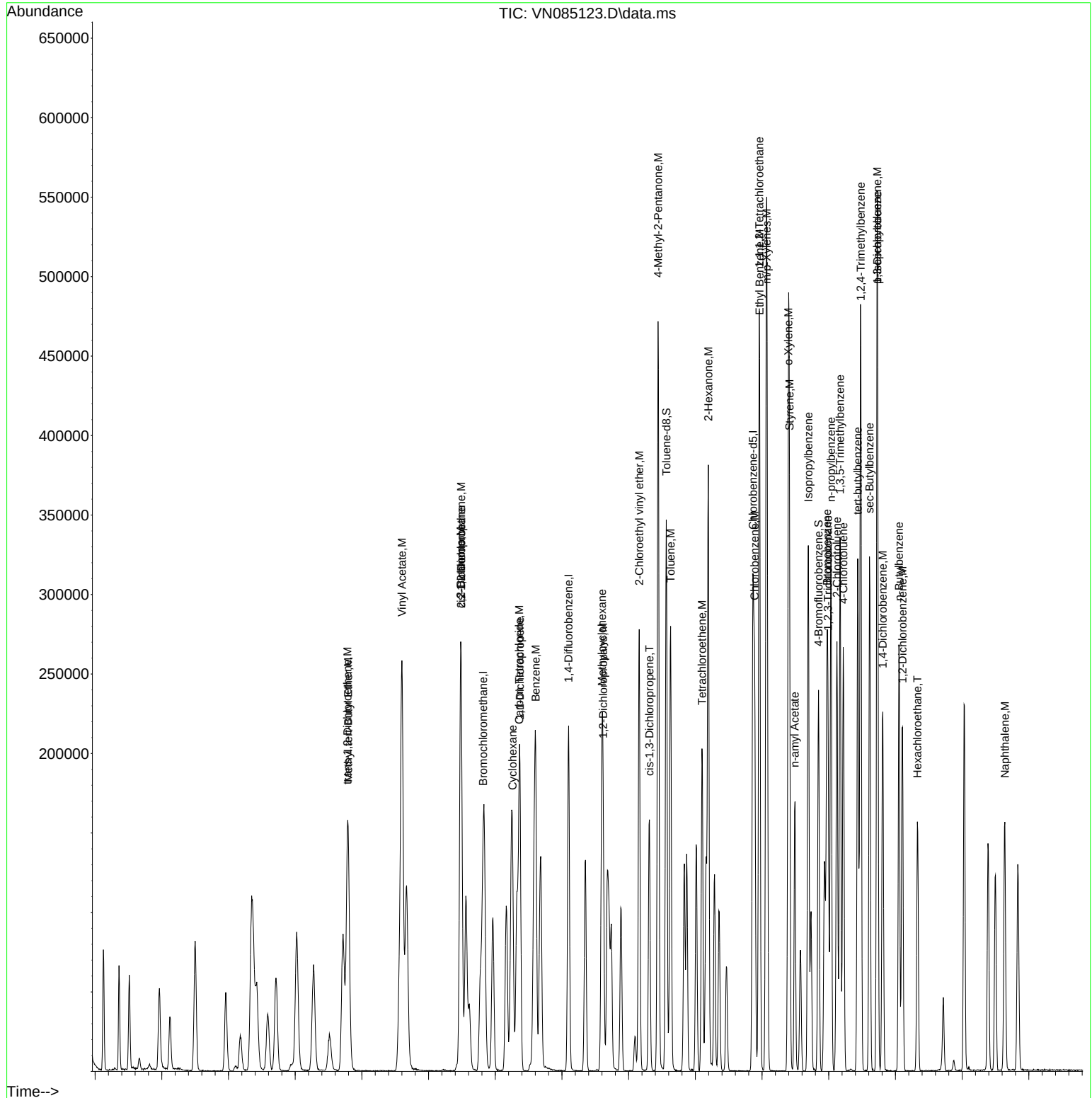
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
Data File : VN085123.D
Acq On : 06 Dec 2024 12:28
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

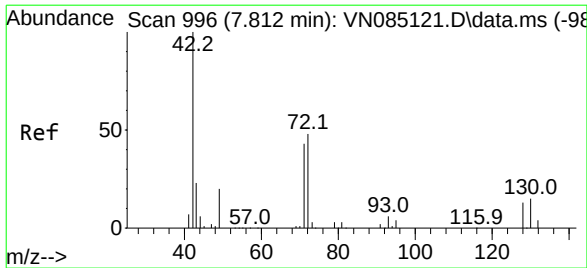
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

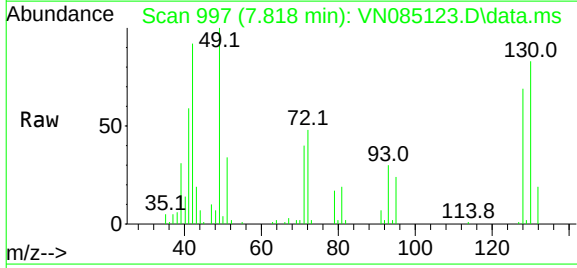
Quant Time: Dec 06 23:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

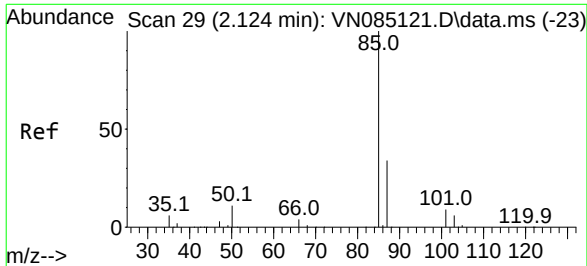
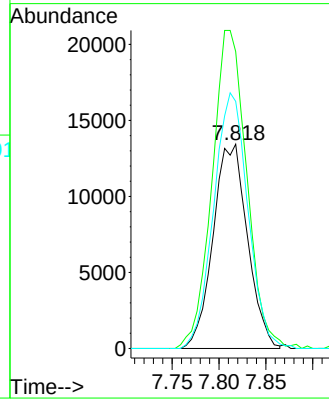
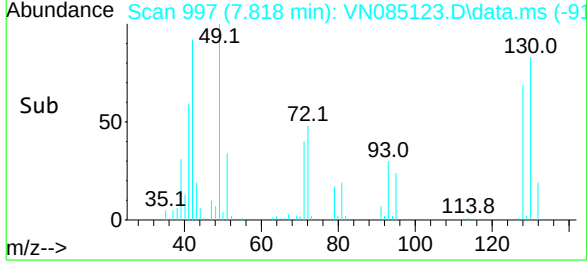
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 128 Resp: 34320
Ion Ratio Lower Upper
128 100
49 156.1 0.0 394.5
130 124.9 0.0 316.5

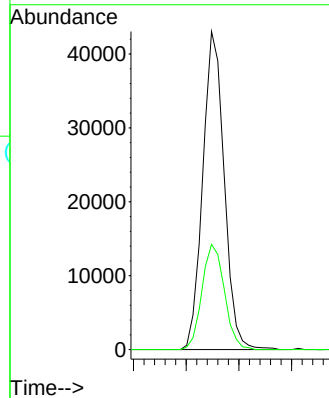
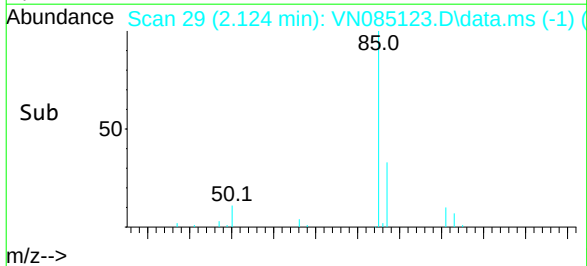
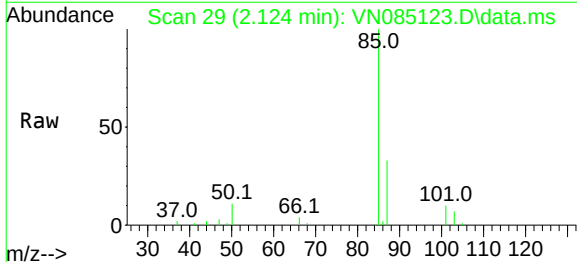
Manual Integrations
APPROVED

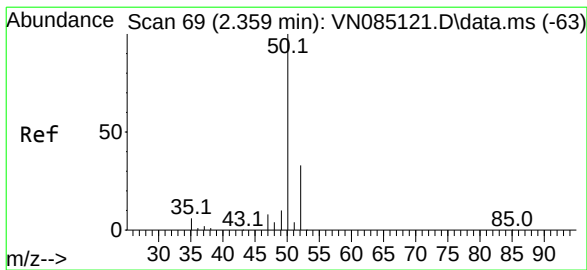
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#2
Dichlorodifluoromethane
Concen: 22.140 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

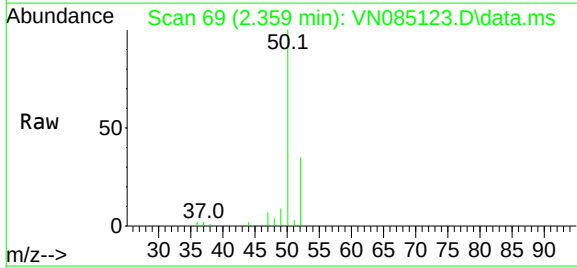
Tgt Ion: 85 Resp: 60791
Ion Ratio Lower Upper
85 100
87 33.1 16.8 50.3





#3
Chloromethane
Concen: 22.297 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

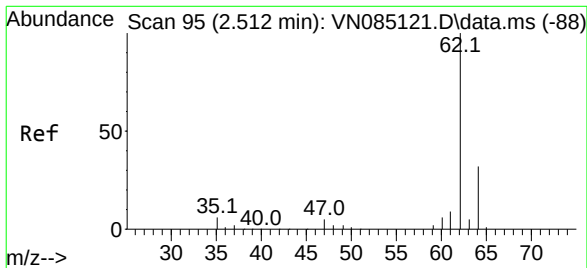
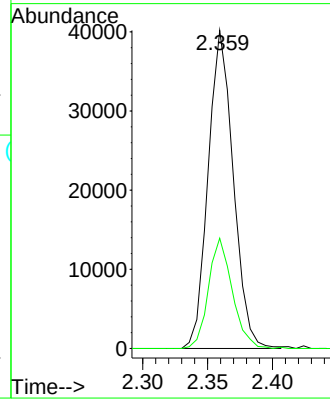
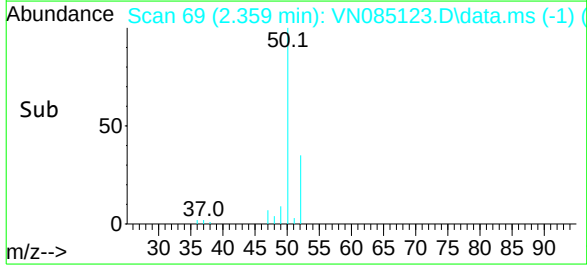
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 50 Resp: 54189
Ion Ratio Lower Upper
50 100
52 34.7 25.0 37.4

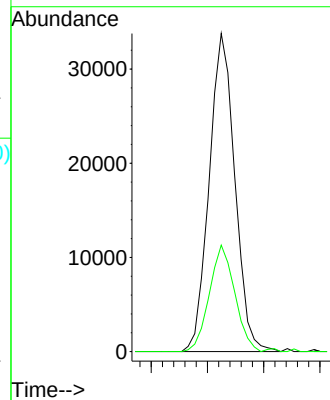
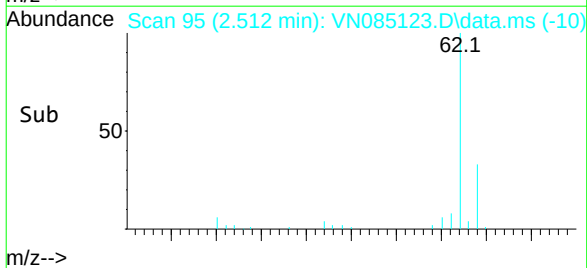
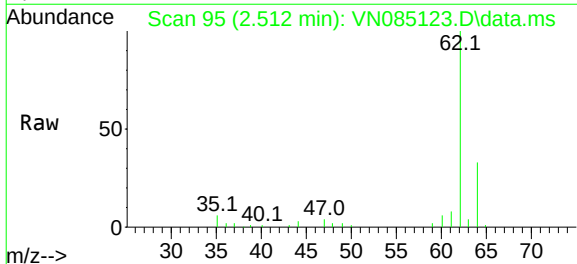
Manual Integrations
APPROVED

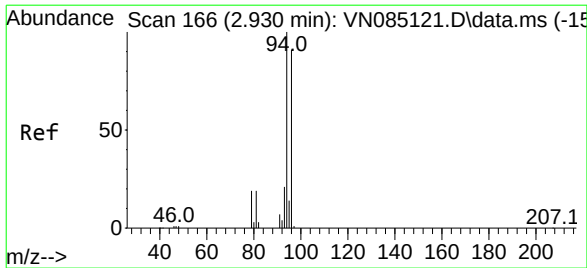
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#4
Vinyl Chloride
Concen: 21.532 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

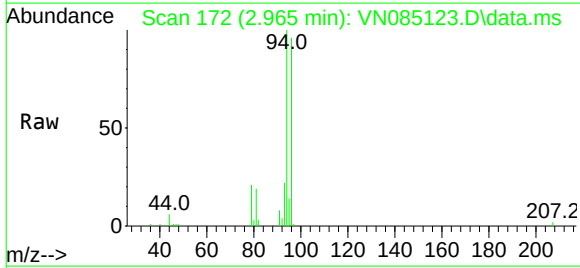
Tgt Ion: 62 Resp: 53524
Ion Ratio Lower Upper
62 100
64 33.5 24.9 37.3





#5
Bromomethane
Concen: 23.874 ug/l
RT: 2.965 min Scan# 171
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

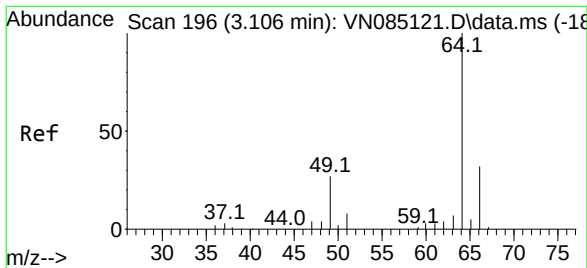
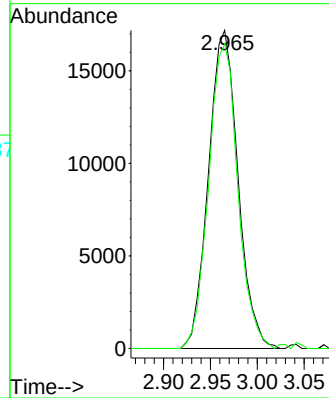
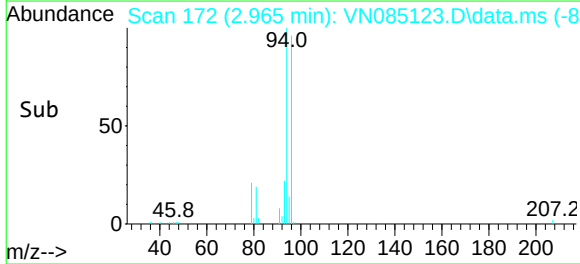
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 94 Resp: 37678
Ion Ratio Lower Upper
94 100
96 95.7 76.2 114.4

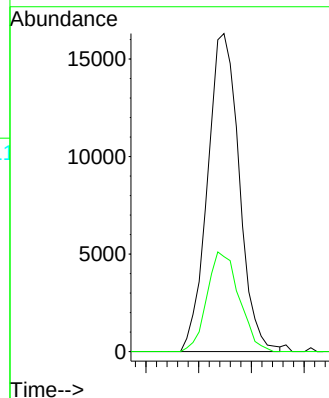
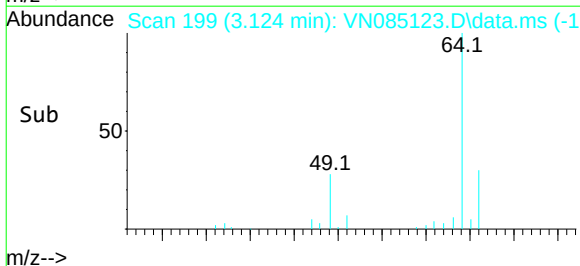
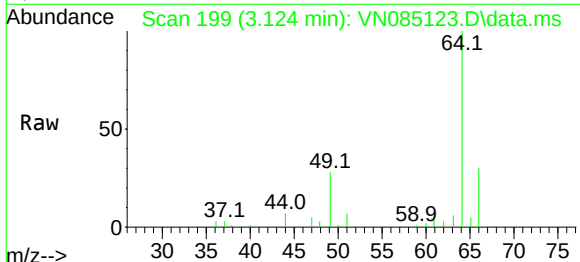
Manual Integrations
APPROVED

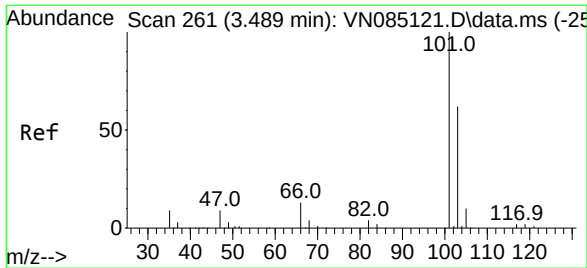
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#6
Chloroethane
Concen: 22.326 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

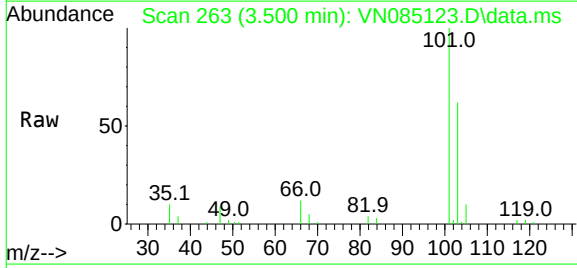
Tgt Ion: 64 Resp: 34096
Ion Ratio Lower Upper
64 100
66 29.9 25.5 38.3





#7
 Trichlorofluoromethane
 Concen: 21.704 ug/l
 RT: 3.500 min Scan# 261
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

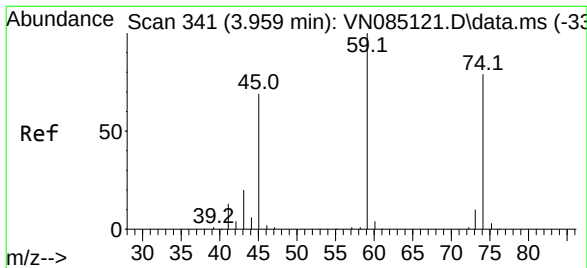
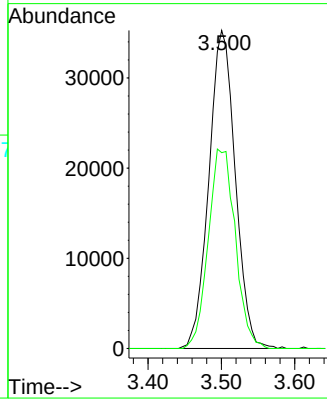
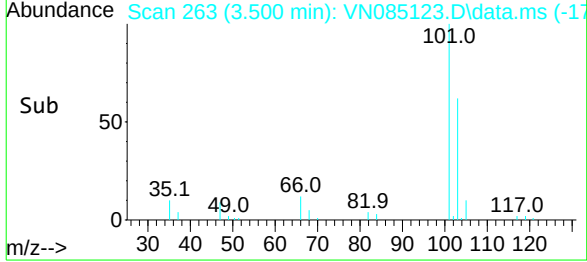
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624



Tgt Ion: 101 Resp: 88313
 Ion Ratio Lower Upper
 101 100
 103 61.6 51.3 76.9

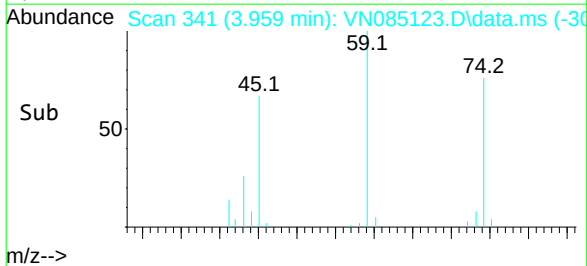
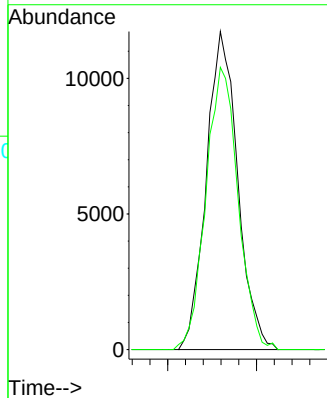
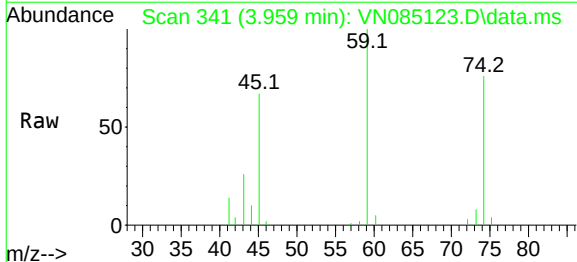
Manual Integrations
 APPROVED

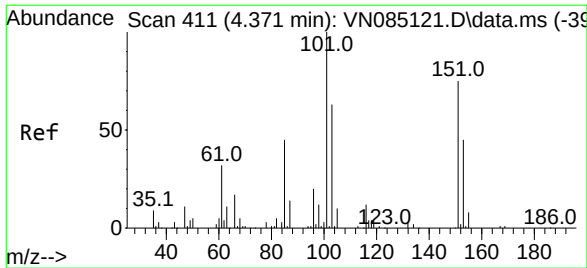
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#8
 Diethyl Ether
 Concen: 22.346 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

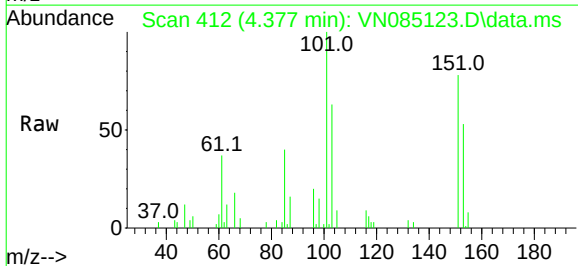
Tgt Ion: 74 Resp: 28800
 Ion Ratio Lower Upper
 74 100
 45 90.7 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.109 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

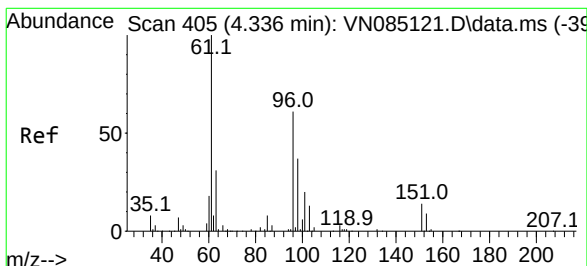
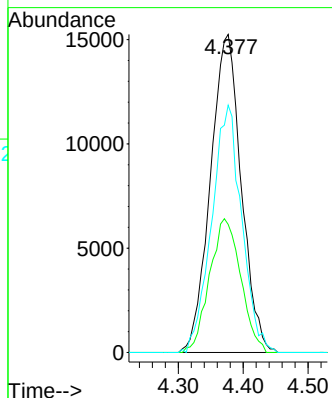
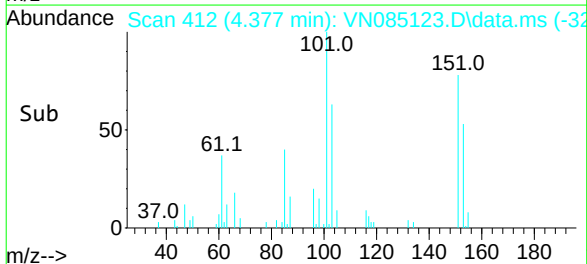
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



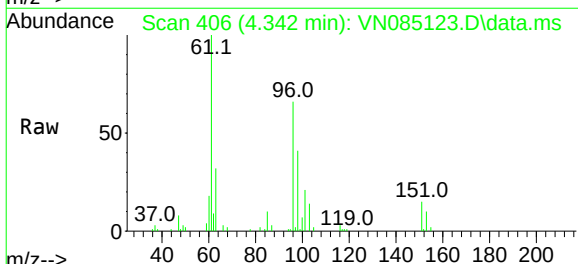
Tgt Ion: 101 Resp: 50308
Ion Ratio Lower Upper
101 100
85 42.5 0.0 88.6
151 75.8 0.0 155.8

Manual Integrations
APPROVED

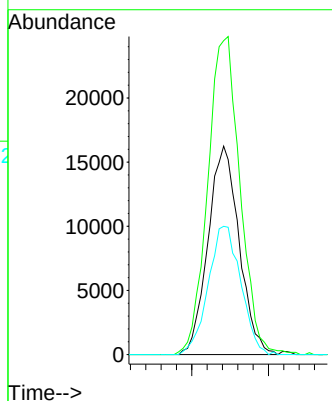
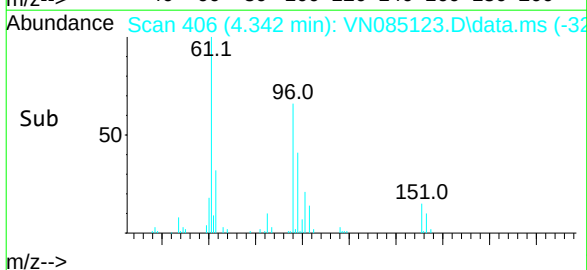
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

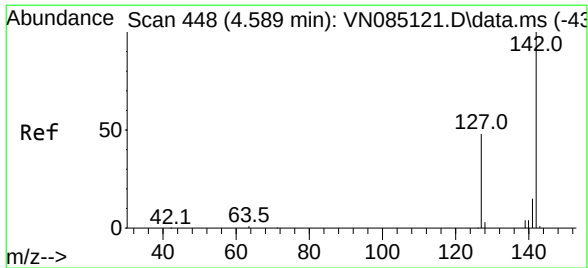


#10
1,1-Dichloroethene
Concen: 21.919 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28



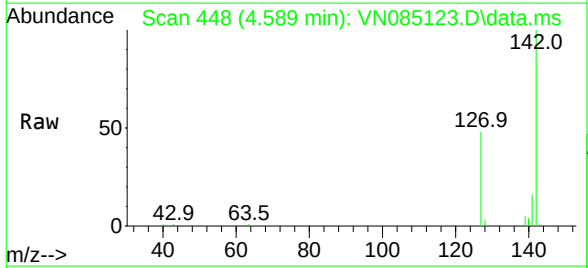
Tgt Ion: 96 Resp: 45812
Ion Ratio Lower Upper
96 100
61 149.4 123.0 184.4
98 61.5 49.1 73.7





#11
Methyl Iodide
Concen: 21.887 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

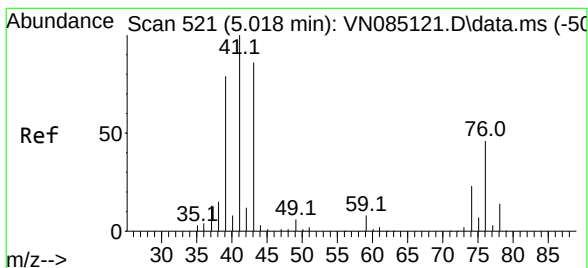
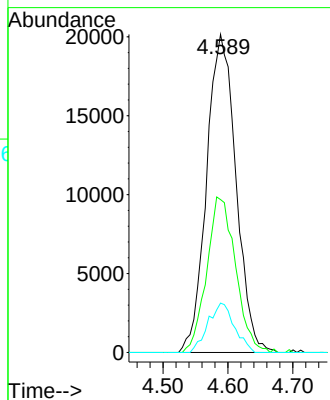
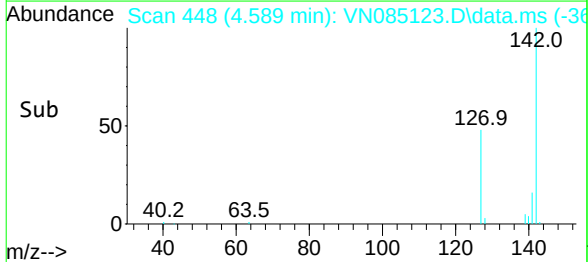
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 142 Resp: 63446
Ion Ratio Lower Upper
142 100
127 48.1 22.5 67.5
141 15.5 8.3 24.9

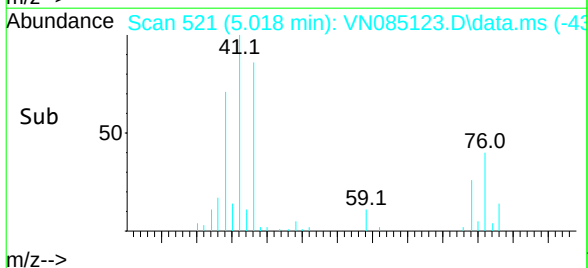
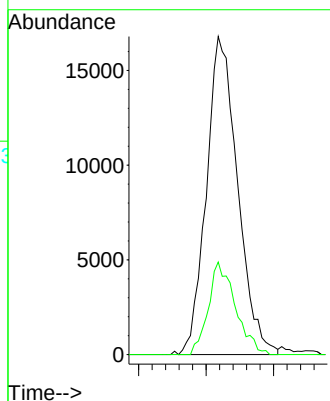
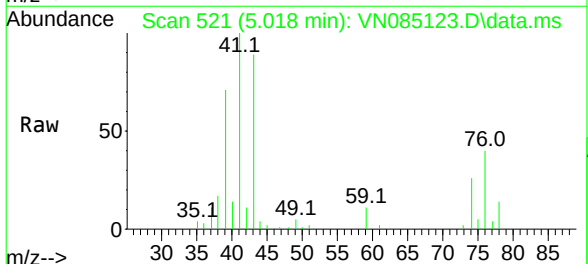
Manual Integrations
APPROVED

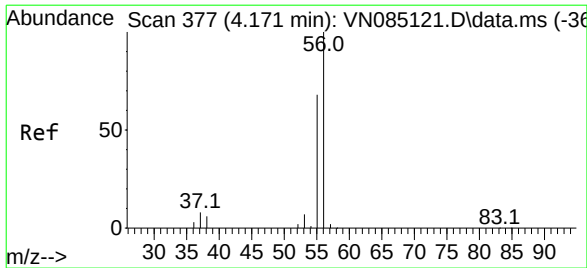
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#12
Methyl Acetate
Concen: 21.883 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 43 Resp: 53958
Ion Ratio Lower Upper
43 100
74 29.3 19.8 29.6





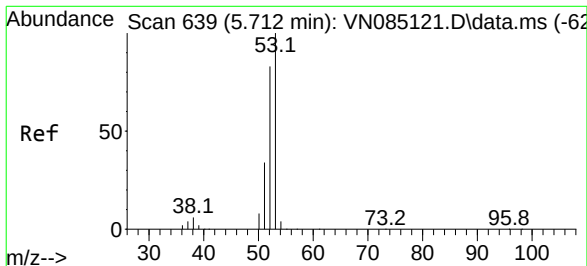
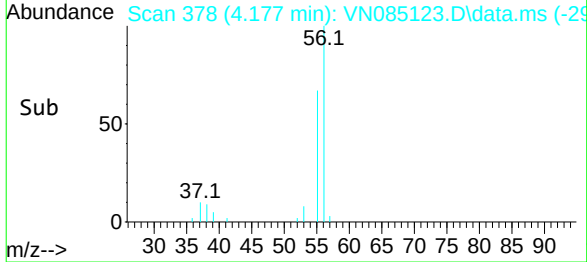
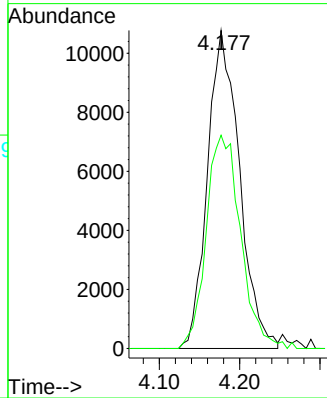
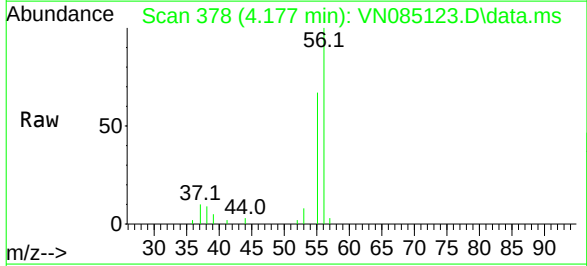
#13
Acrolein
Concen: 83.185 ug/l
RT: 4.177 min Scan# 371
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion: 56 Resp: 29807
Ion Ratio Lower Upper
56 100
55 71.6 59.4 89.0

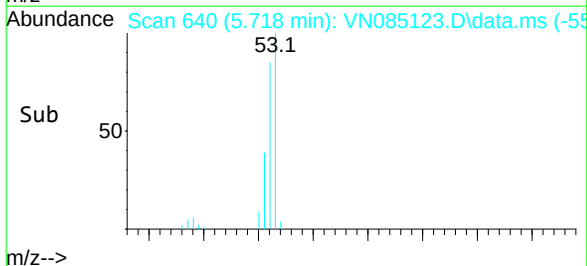
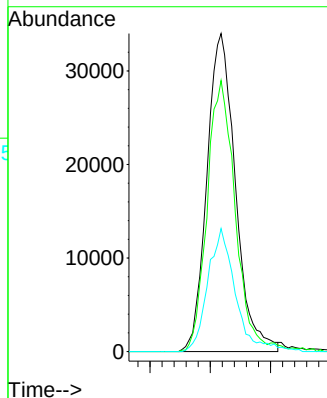
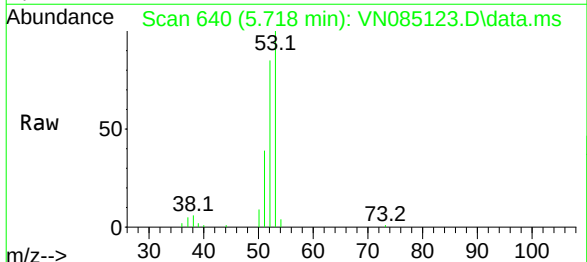
Manual Integrations
APPROVED

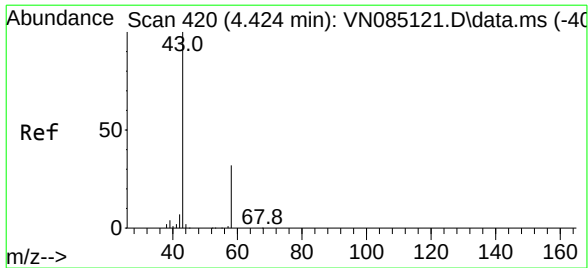
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#14
Acrylonitrile
Concen: 109.372 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 53 Resp: 111980
Ion Ratio Lower Upper
53 100
52 82.8 42.9 128.5
51 37.5 17.2 51.5





#15

Acetone

Concen: 104.948 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

Tgt Ion: 58 Resp: 29118

Ion Ratio Lower Upper

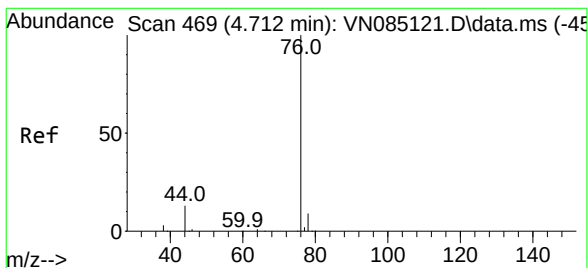
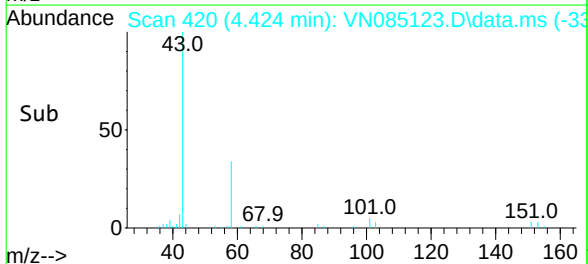
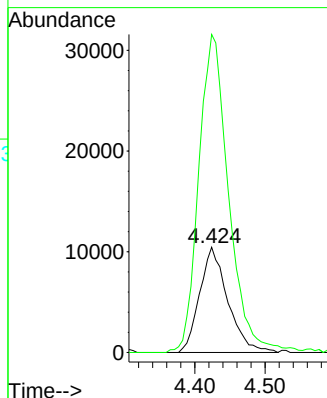
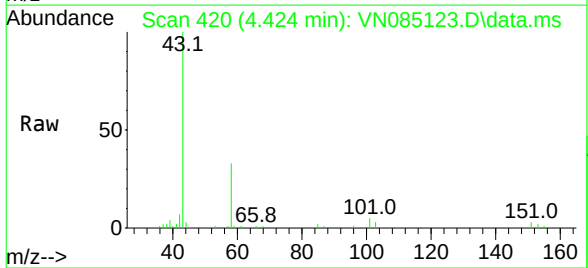
58 100

43 296.9 242.3 363.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#16

Carbon Disulfide

Concen: 22.068 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085123.D

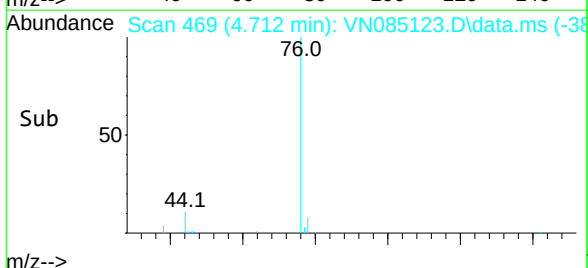
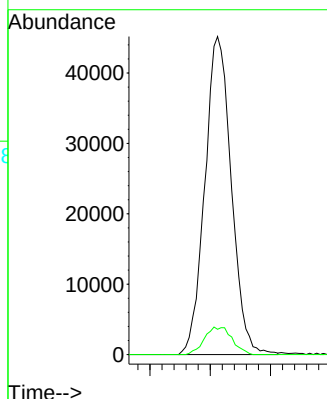
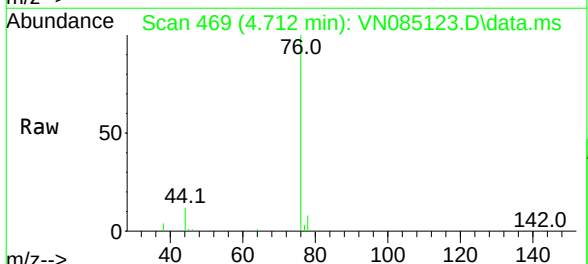
Acq: 06 Dec 2024 12:28

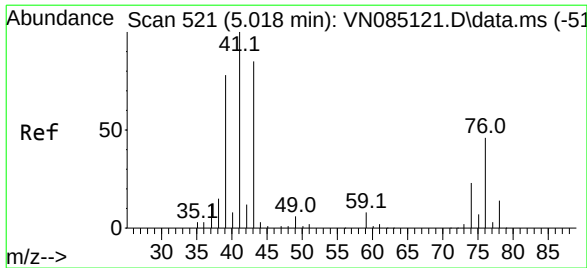
Tgt Ion: 76 Resp: 137866

Ion Ratio Lower Upper

76 100

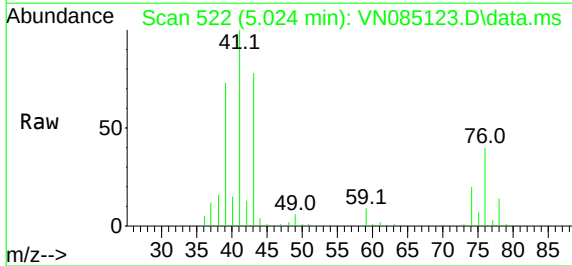
78 7.9 7.1 10.7





#17
Allyl chloride
Concen: 21.888 ug/l
RT: 5.024 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

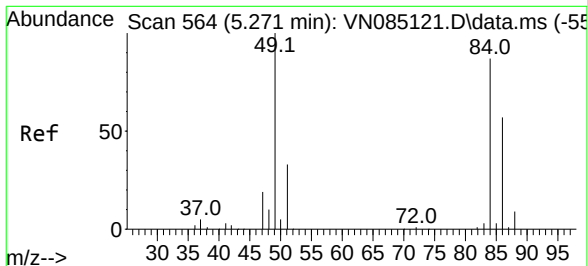
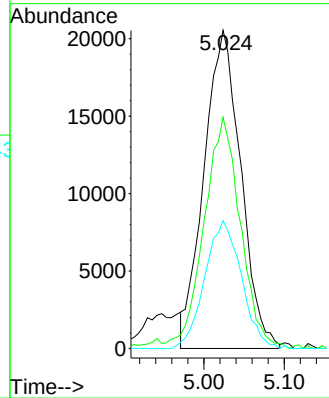
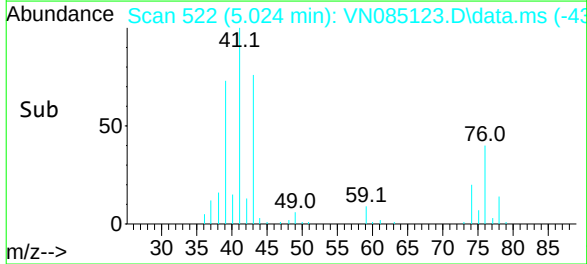
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



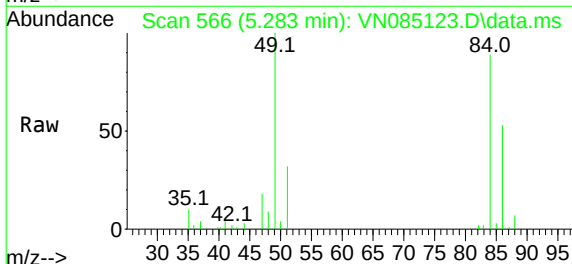
Tgt Ion: 41 Resp: 65461
Ion Ratio Lower Upper
41 100
39 71.9 32.0 96.2
76 40.6 20.2 60.5

Manual Integrations
APPROVED

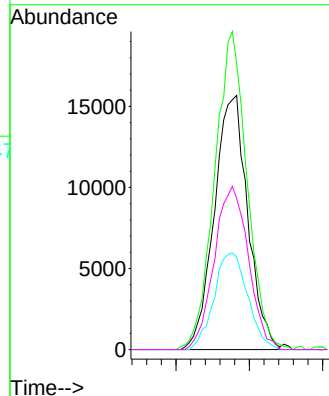
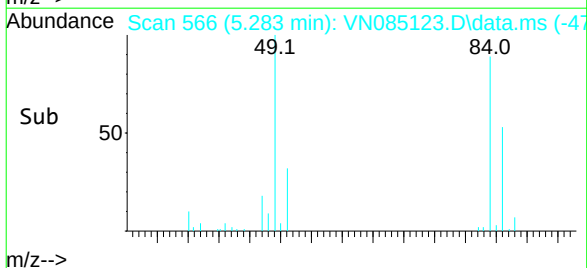
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

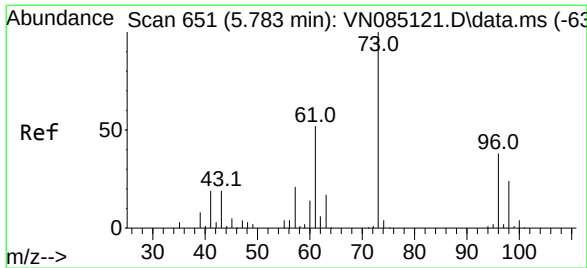


#18
Methylene Chloride
Concen: 20.936 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28



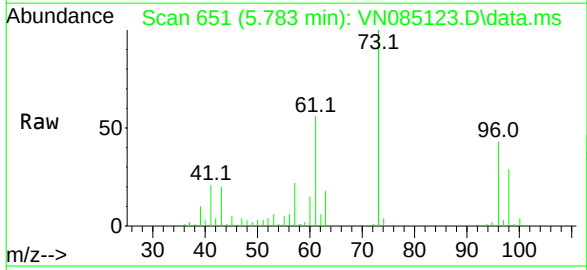
Tgt Ion: 84 Resp: 49652
Ion Ratio Lower Upper
84 100
49 111.4 95.1 142.7
51 36.4 27.4 41.0
86 59.5 50.9 76.3





#19
trans-1,2-Dichloroethene
Concen: 21.862 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

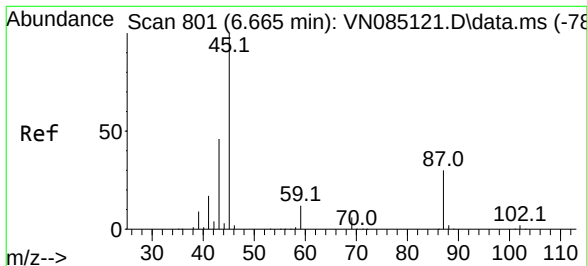
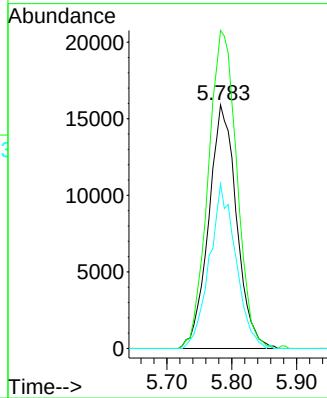
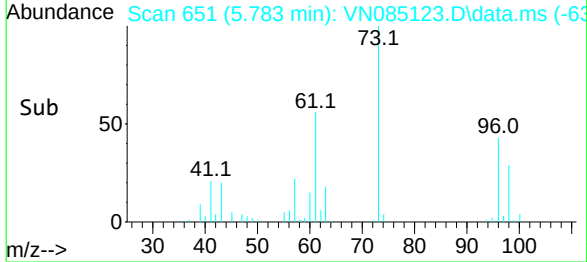
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 96 Resp: 47495
Ion Ratio Lower Upper
96 100
61 130.6 100.4 150.6
98 67.5 52.6 79.0

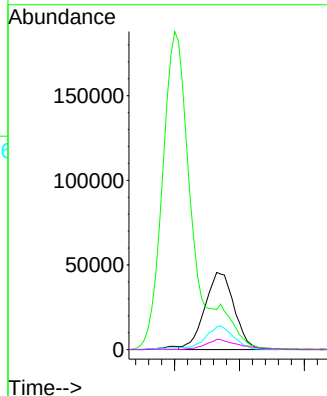
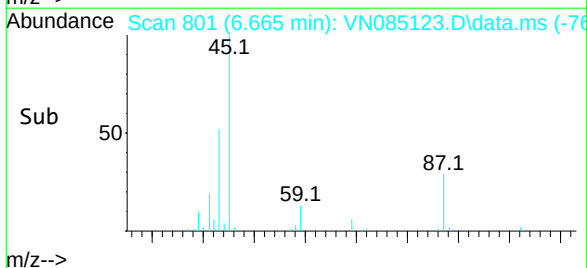
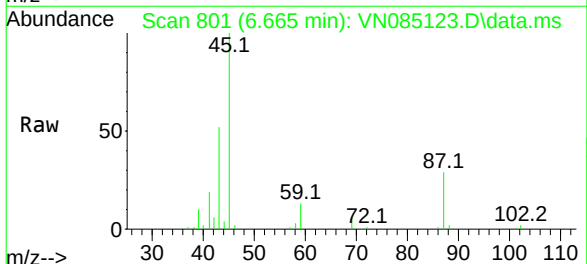
Manual Integrations
APPROVED

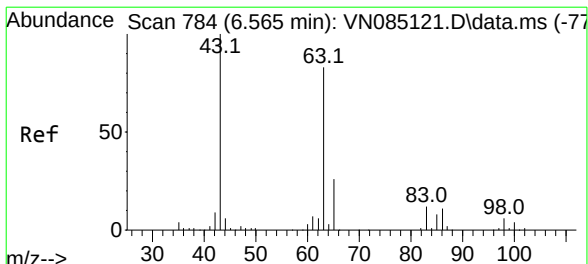
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#20
Diisopropyl ether
Concen: 21.853 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

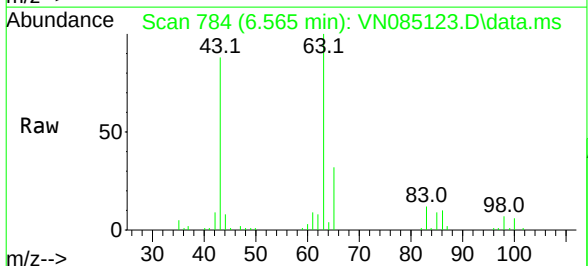
Tgt Ion: 45 Resp: 143427
Ion Ratio Lower Upper
45 100
43 50.6 41.9 62.9
87 29.5 24.1 36.1
59 13.3 10.0 15.0





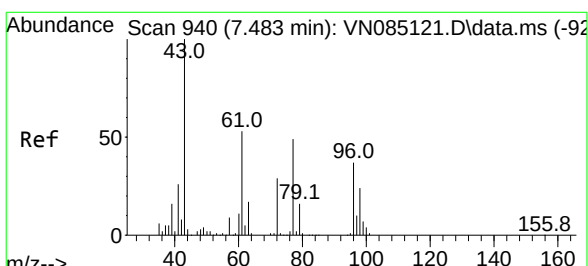
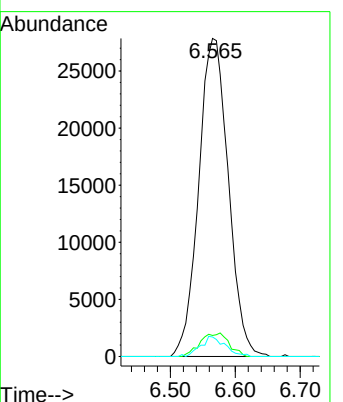
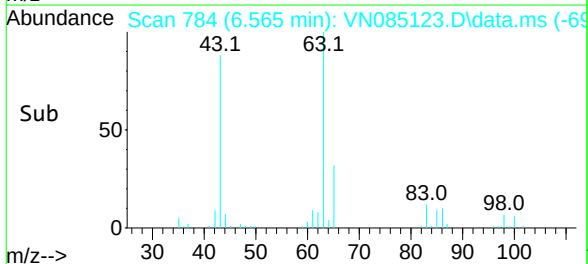
#21
 1,1-Dichloroethane
 Concen: 21.811 ug/l
 RT: 6.565 min Scan# 78
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

Instrument : MSVOA_N
 ClientSampleId : ICVVN120624

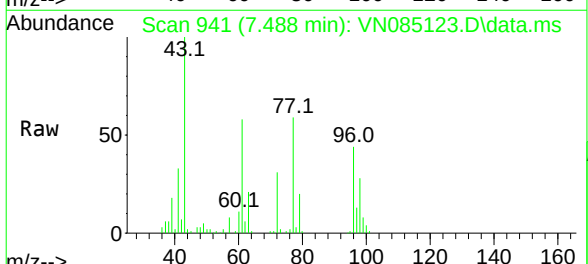


Tgt Ion:	63	Resp:	88356
Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.4
100	6.1	1.6	4.8

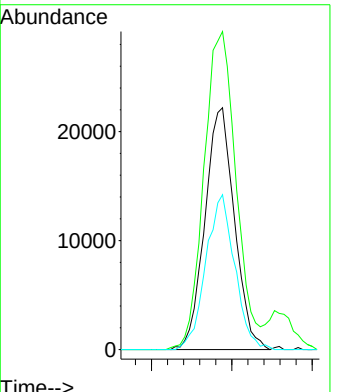
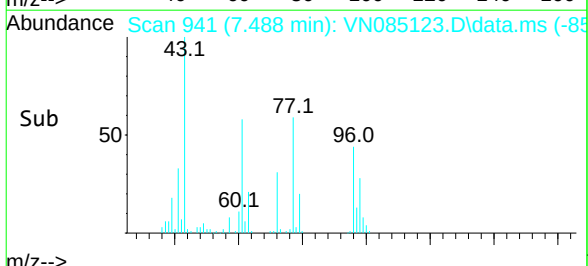
Manual Integrations
APPROVED
 Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

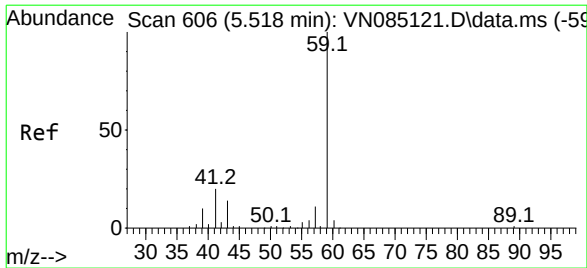


#22
 cis-1,2-Dichloroethene
 Concen: 22.742 ug/l
 RT: 7.488 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28



Tgt Ion:	96	Resp:	56787
Ion	Ratio	Lower	Upper
96	100		
61	142.2	115.9	173.9
98	62.3	51.8	77.8





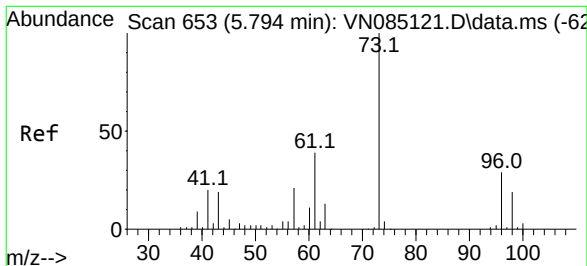
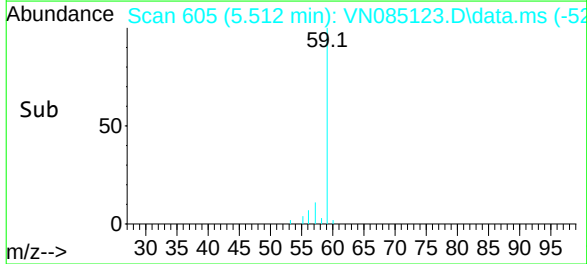
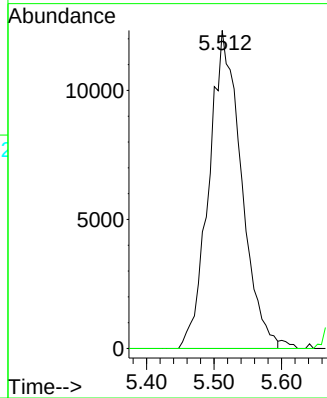
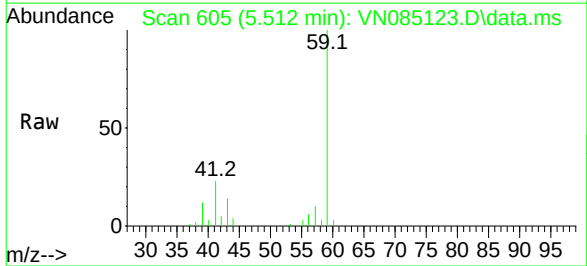
#23
tert-Butyl Alcohol
Concen: 111.884 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion: 59 Resp: 41094
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

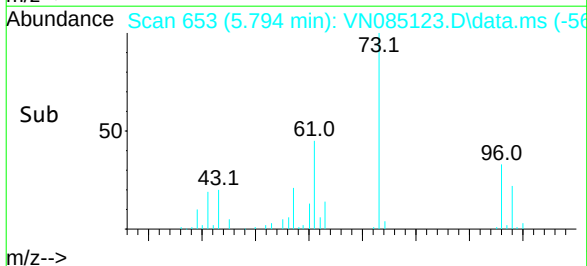
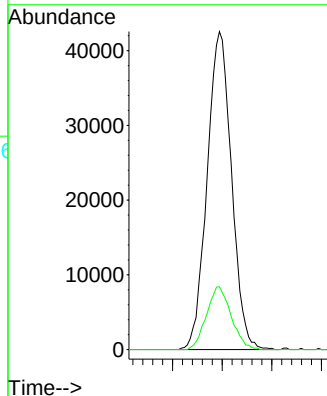
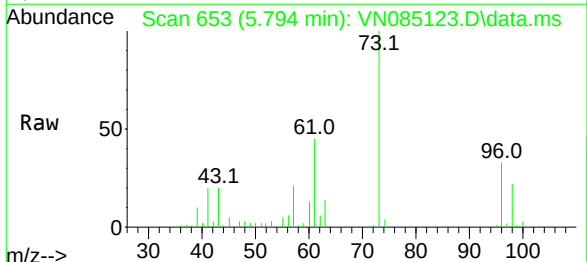
Manual Integrations
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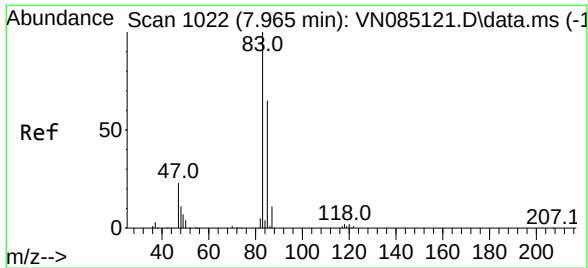
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#24
Methyl tert-Butyl Ether
Concen: 22.254 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 73 Resp: 145319
Ion Ratio Lower Upper
73 100
43 20.0 8.7 13.1#





#25

Chloroform

Concen: 21.669 ug/l

RT: 7.965 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

Tgt Ion: 83 Resp: 91959

Ion Ratio Lower Upper

83 100

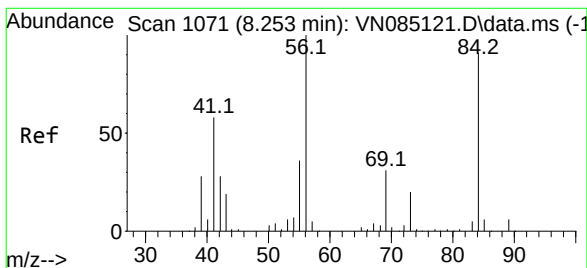
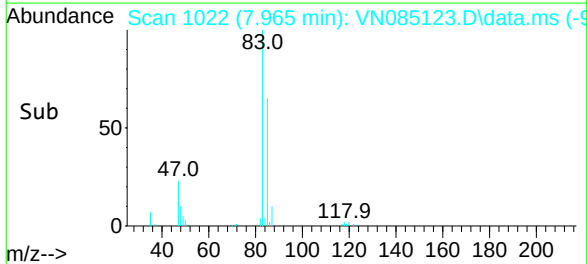
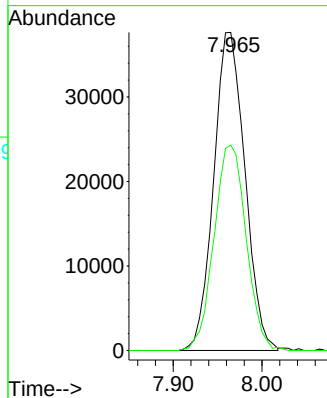
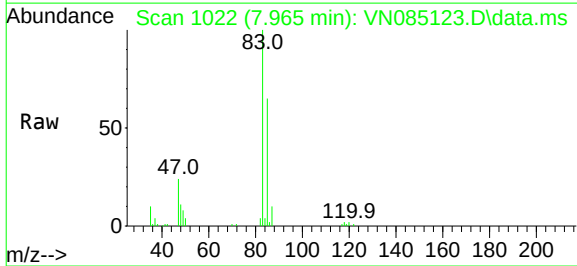
85 64.6 49.4 74.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#26

Cyclohexane

Concen: 22.553 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

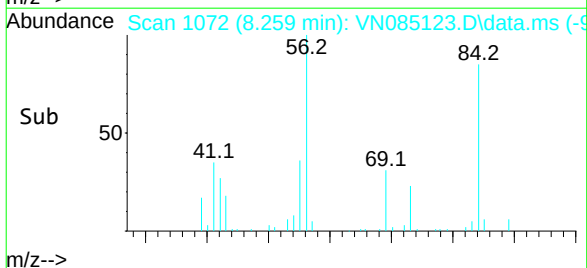
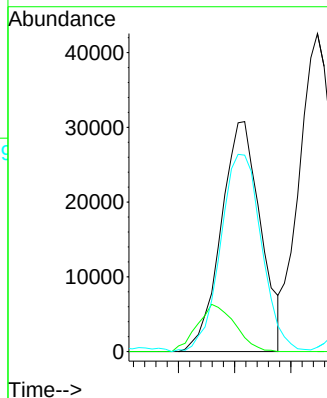
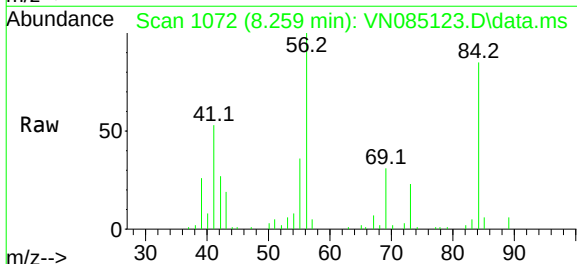
Tgt Ion: 56 Resp: 75227

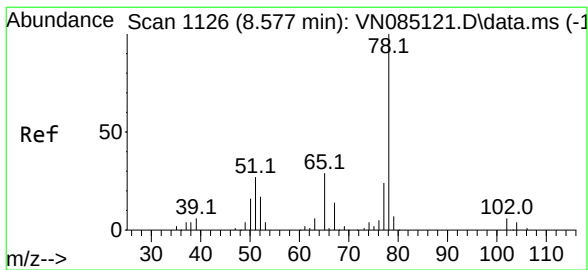
Ion Ratio Lower Upper

56 100

89 19.7 19.5 29.3

84 89.0 70.6 105.8





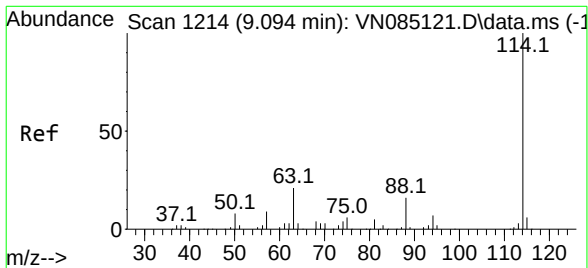
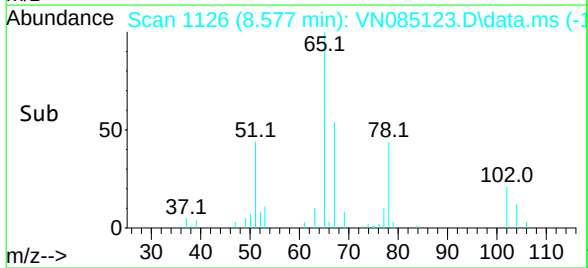
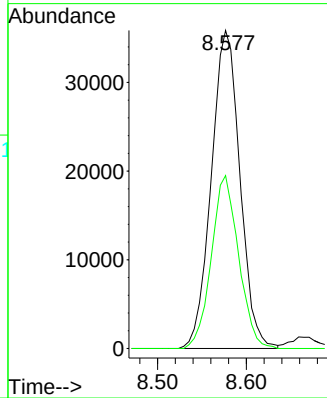
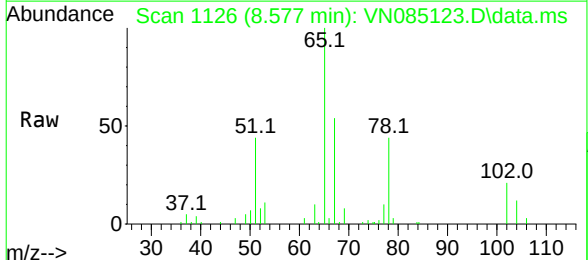
#27
1,2-Dichloroethane-d4
Concen: 29.493 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion: 65 Resp: 80315
Ion Ratio Lower Upper
65 100
67 51.7 39.9 59.9

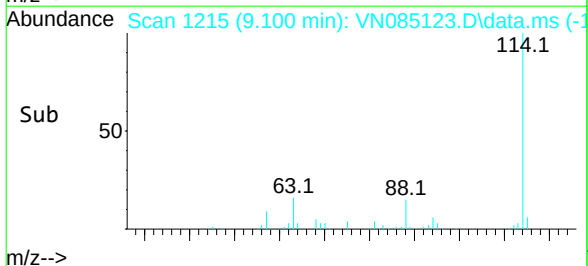
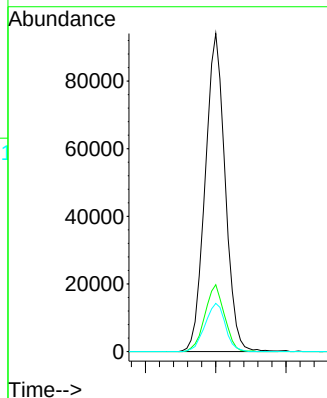
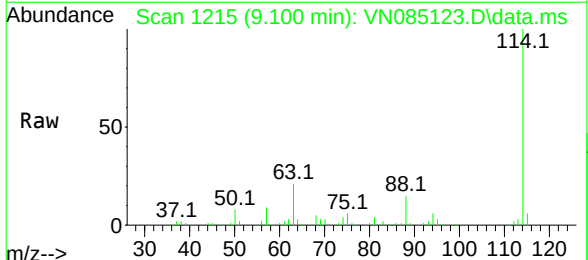
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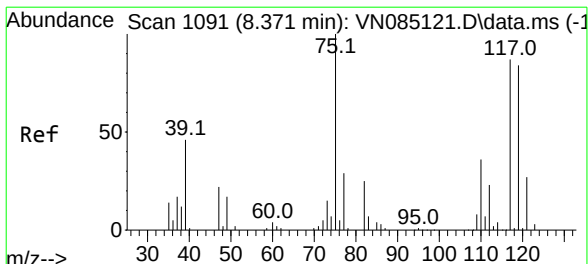
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

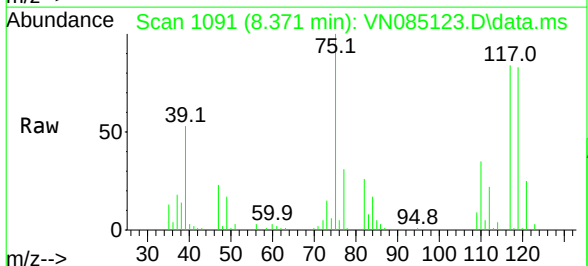
Tgt Ion:114 Resp: 185717
Ion Ratio Lower Upper
114 100
63 20.5 16.2 24.2
88 15.5 12.5 18.7





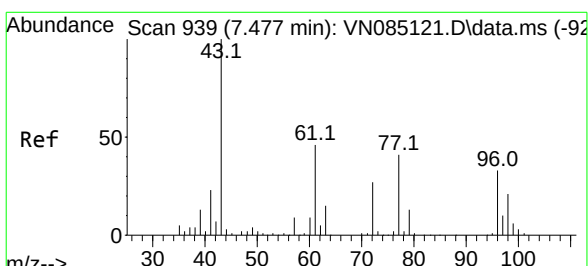
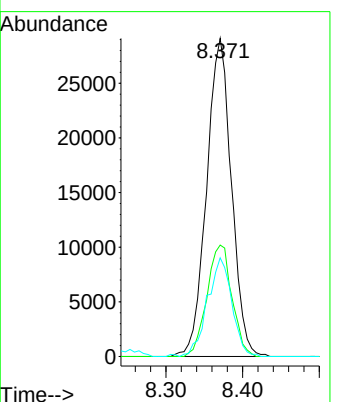
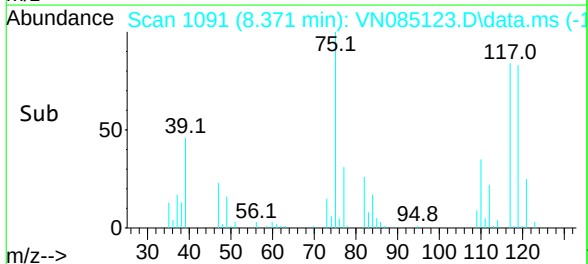
#29
 1,1-Dichloropropene
 Concen: 21.858 ug/l
 RT: 8.371 min Scan# 1091
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

Instrument : MSVOA_N
 ClientSampleId : ICVVN120624

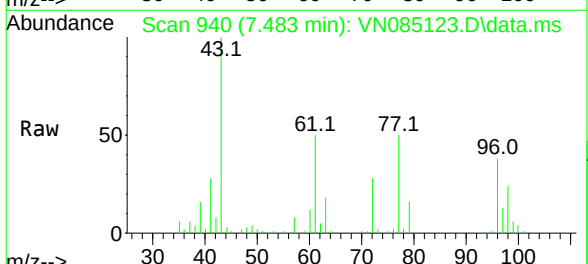


Tgt Ion:	75	Resp:	65505
Ion	Ratio	Lower	Upper
75	100		
110	35.2	0.0	71.6
77	30.4	0.0	62.2

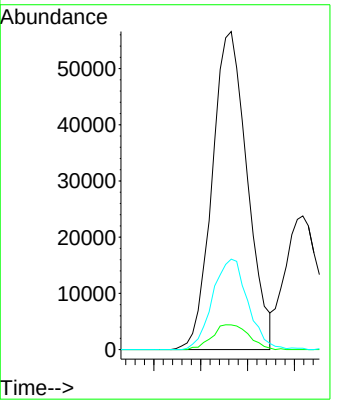
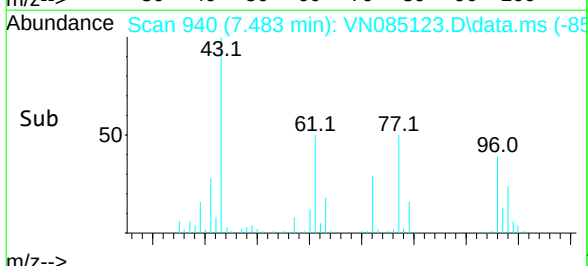
Manual Integrations
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 Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

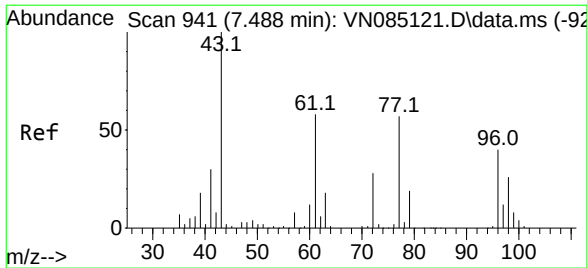


#30
 2-Butanone
 Concen: 107.048 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28



Tgt Ion:	43	Resp:	147216
Ion	Ratio	Lower	Upper
43	100		
57	8.1	6.9	10.3
72	28.5	21.8	32.8





#31

2,2-Dichloropropane

Concen: 21.490 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

Tgt Ion: 77 Resp: 82584

Ion Ratio Lower Upper

77 100

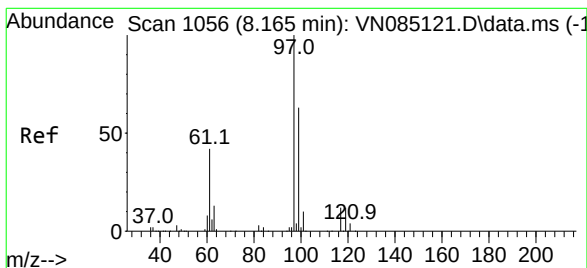
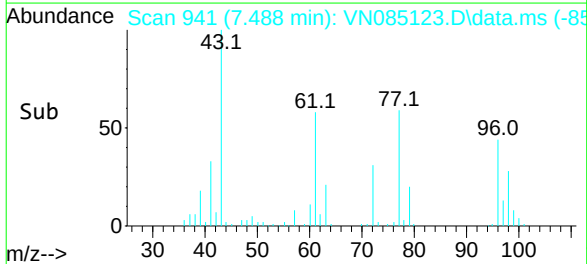
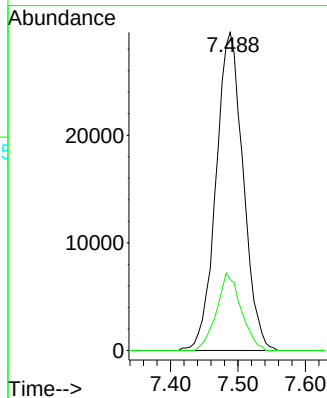
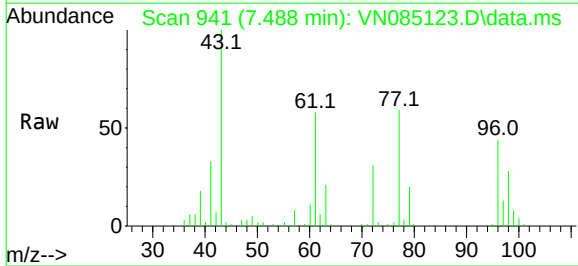
97 22.0 0.0 0.0#

Manual Integrations

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Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#32

1,1,1-Trichloroethane

Concen: 21.275 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

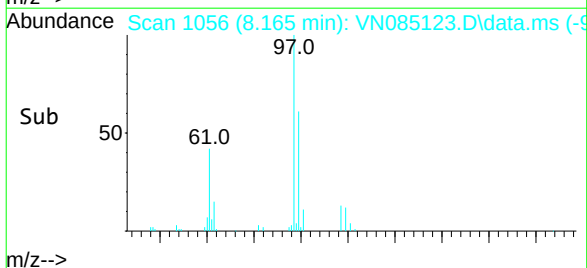
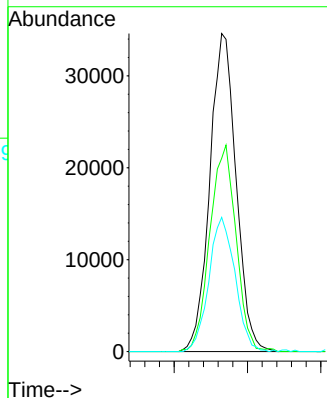
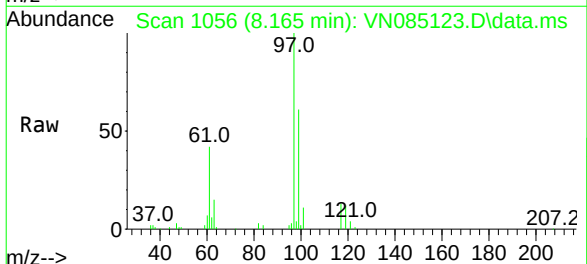
Tgt Ion: 97 Resp: 86299

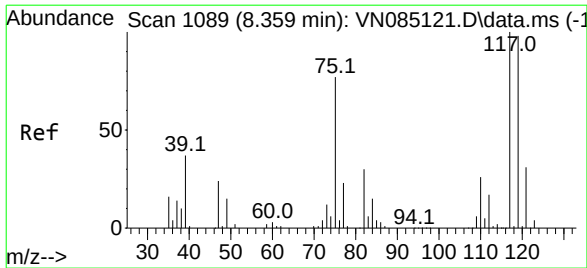
Ion Ratio Lower Upper

97 100

99 64.3 50.8 76.2

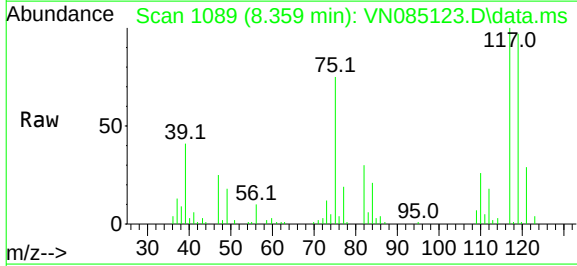
61 42.0 32.7 49.1





#33
Carbon Tetrachloride
Concen: 20.855 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

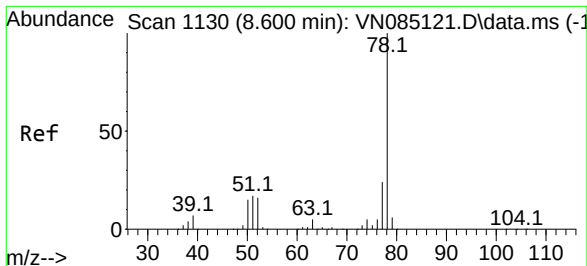
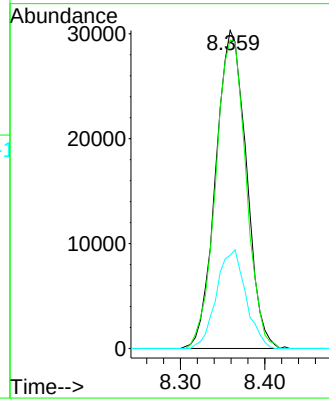
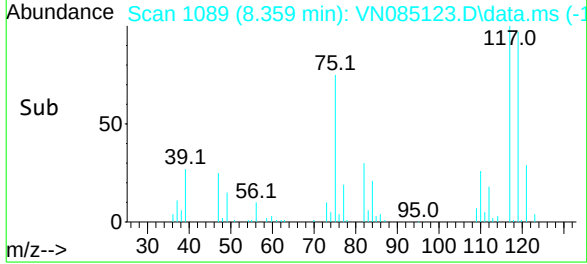
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



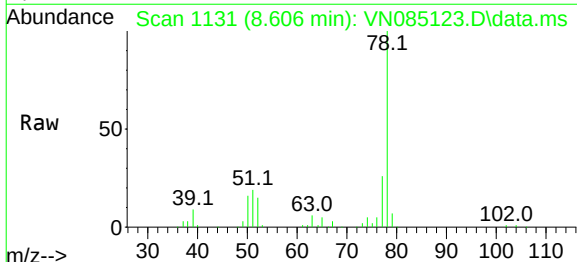
Tgt Ion: 117 Resp: 76333
Ion Ratio Lower Upper
117 100
119 97.0 81.6 122.4
121 29.3 26.5 39.7

Manual Integrations
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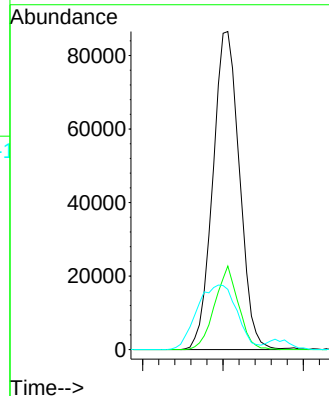
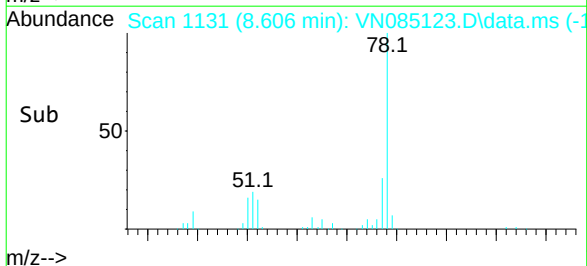
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

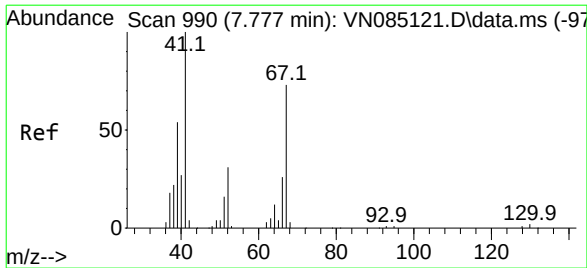


#34
Benzene
Concen: 21.162 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28



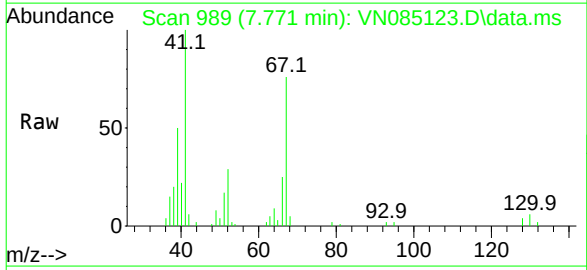
Tgt Ion: 78 Resp: 199228
Ion Ratio Lower Upper
78 100
77 26.3 18.0 27.0
51 17.3 12.4 18.6





#35
Methacrylonitrile
Concen: 22.464 ug/l
RT: 7.771 min Scan# 989
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

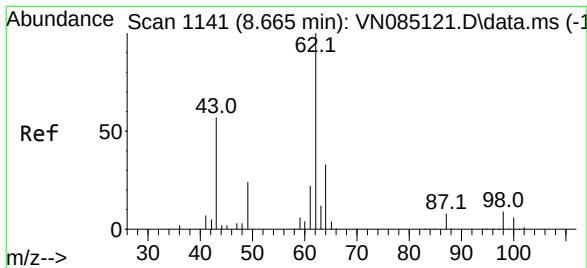
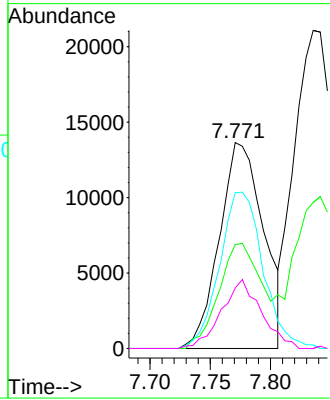
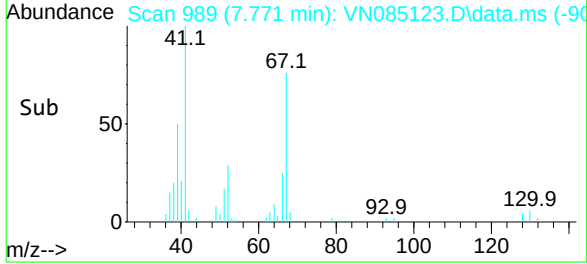
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion:	41	Resp:	34766
Ion	Ratio	Lower	Upper
41	100		
39	50.4	24.4	73.2
67	75.7	37.0	110.9
52	29.3	12.4	37.2

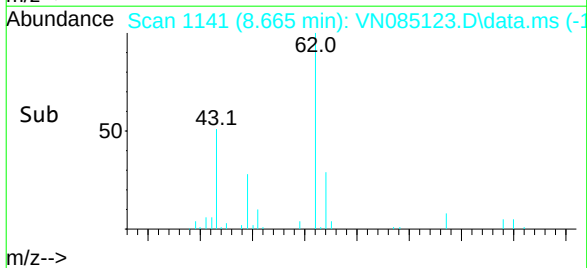
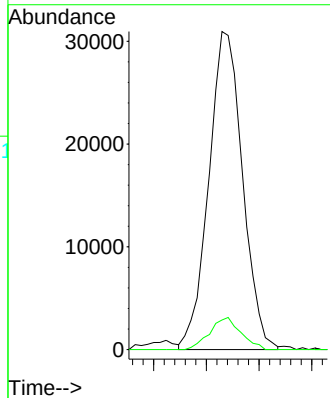
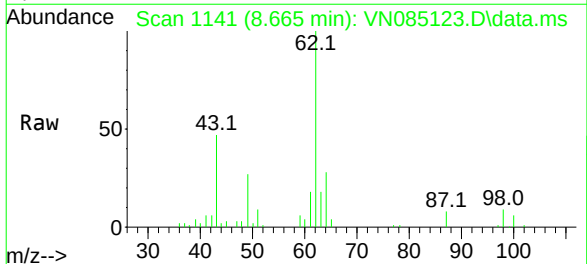
Manual Integrations
APPROVED

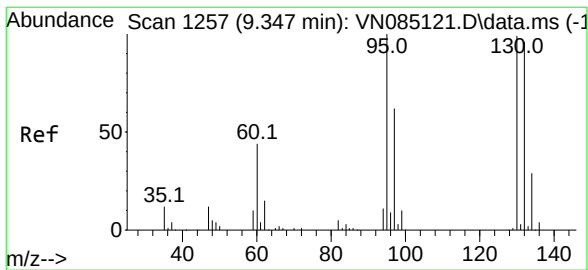
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#36
1,2-Dichloroethane
Concen: 21.505 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:	62	Resp:	68920
Ion	Ratio	Lower	Upper
62	100		
98	9.3	7.3	10.9





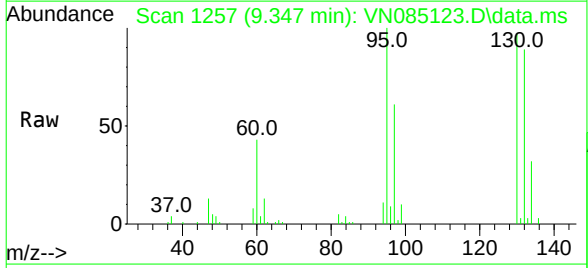
#37
 Trichloroethene
 Concen: 21.558 ug/l
 RT: 9.347 min Scan# 1257
 Delta R.T. -0.006 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

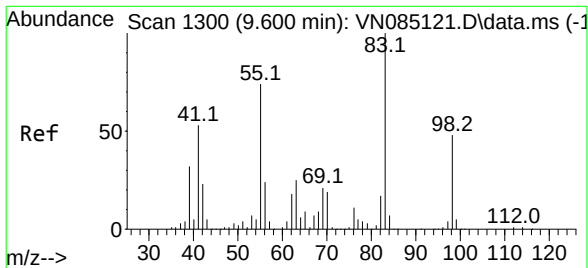
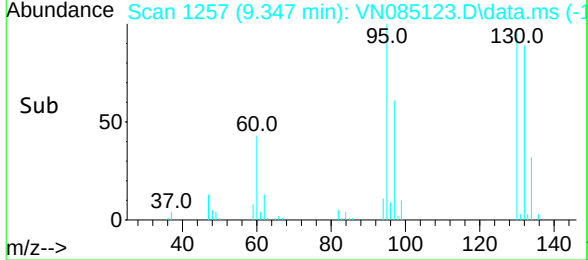
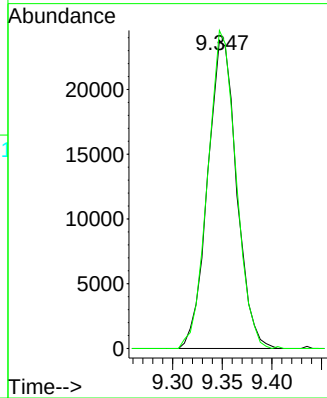


Tgt Ion: 130 Resp: 48331
 Ion Ratio Lower Upper
 130 100
 95 103.2 76.2 114.4

Manual Integrations

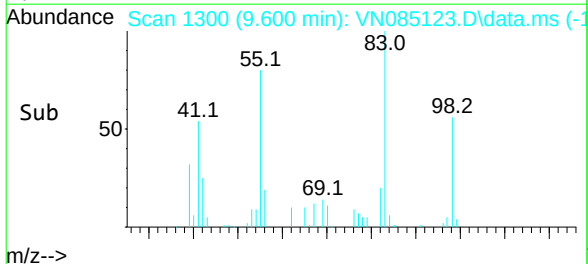
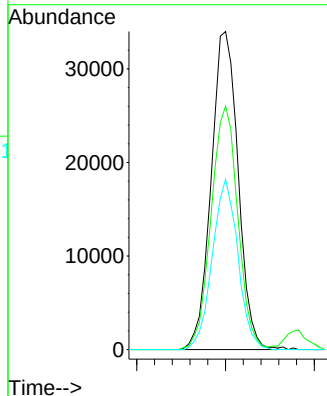
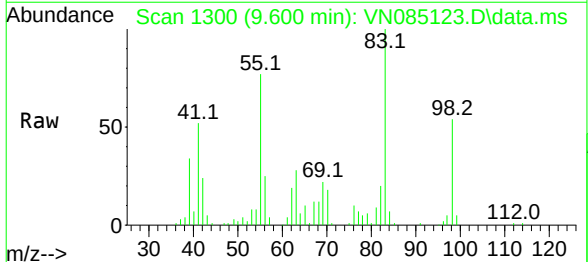
APPROVED

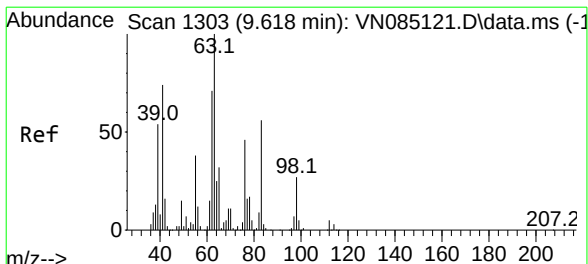
Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024



#38
 Methylcyclohexane
 Concen: 22.020 ug/l
 RT: 9.600 min Scan# 1300
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

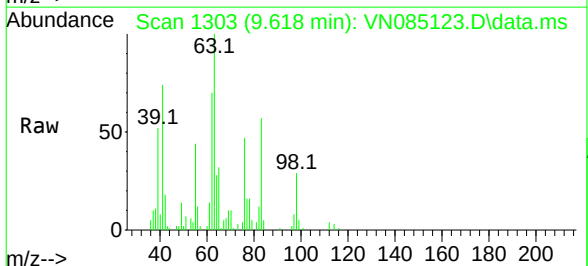
Tgt Ion: 83 Resp: 71750
 Ion Ratio Lower Upper
 83 100
 55 76.0 41.4 124.4
 98 50.9 25.7 77.1





#39
 1,2-Dichloropropane
 Concen: 20.867 ug/l
 RT: 9.618 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

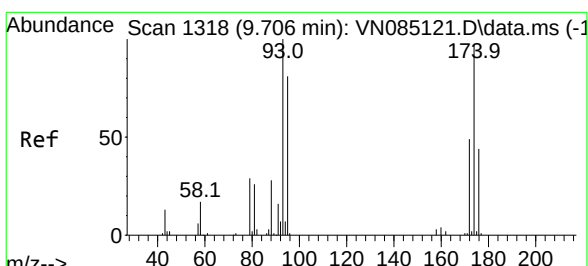
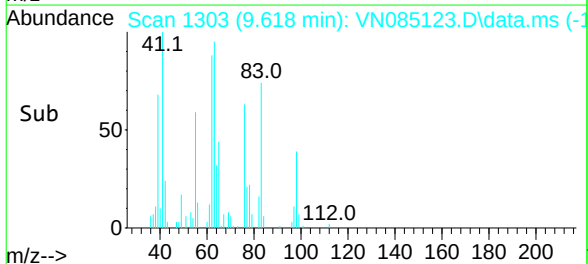
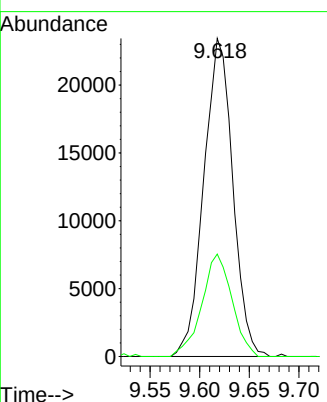
Instrument : MSVOA_N
 ClientSampleId : ICVVN120624



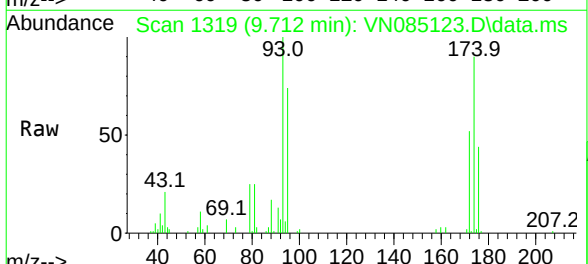
Tgt Ion: 63 Resp: 47583

Ion	Ratio	Lower	Upper
63	100		
65	32.2	23.4	35.0

Manual Integrations
APPROVED
 Reviewed By :Mahesh Dadoda 12/09/2024
 Supervised By :Semsettin Yesilyurt 12/09/2024

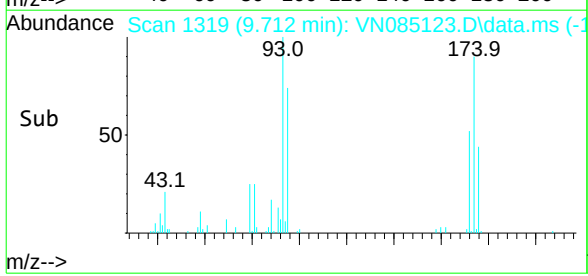
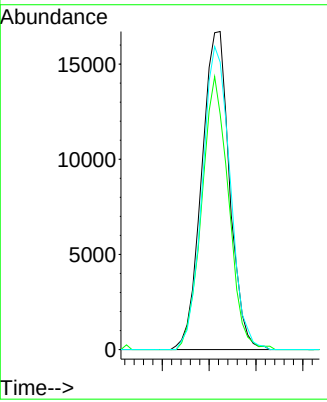


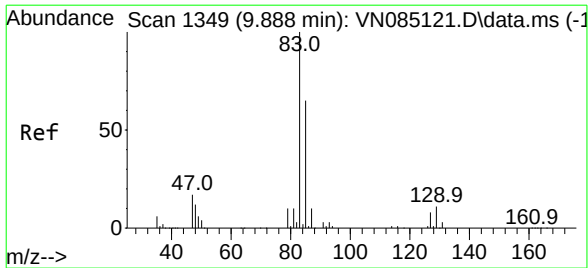
#40
 Dibromomethane
 Concen: 21.127 ug/l
 RT: 9.712 min Scan# 1319
 Delta R.T. 0.006 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28



Tgt Ion: 93 Resp: 34556

Ion	Ratio	Lower	Upper
93	100		
95	81.6	0.0	169.4
174	95.0	0.0	189.8





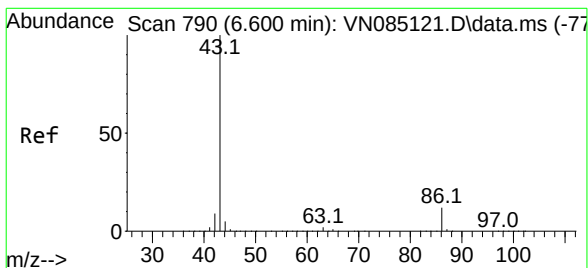
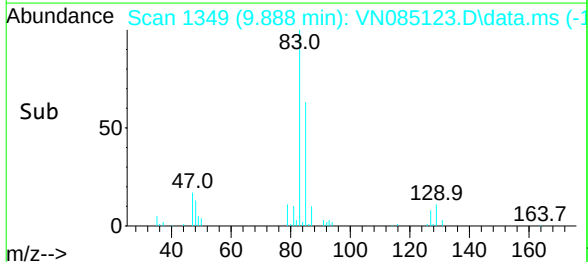
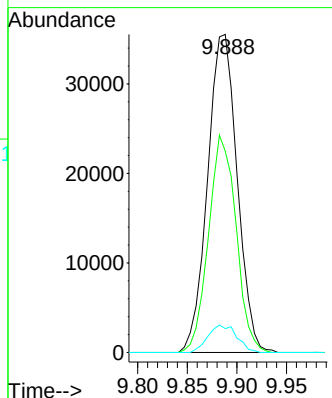
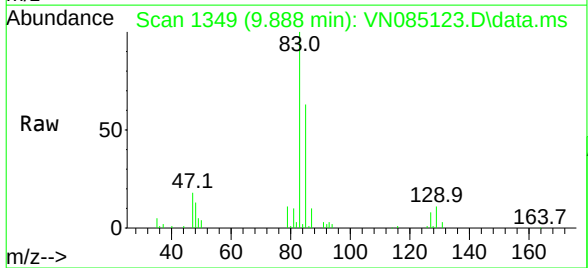
#41
Bromodichloromethane
Concen: 21.117 ug/l
RT: 9.888 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion: 83	Resp: 73839
Ion Ratio	Lower Upper
83 100	
85 63.3	54.6 81.8
127 7.5	7.0 10.6

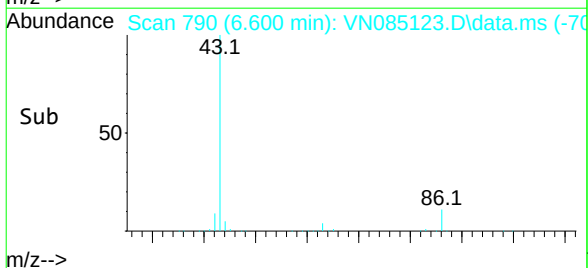
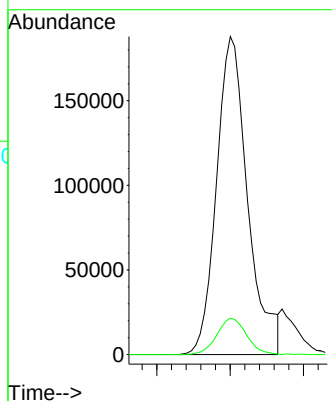
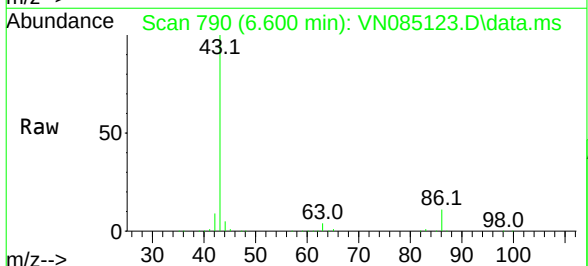
Manual Integrations
APPROVED

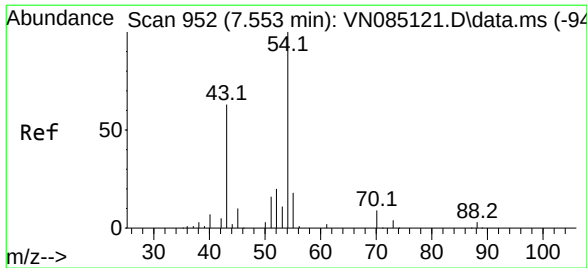
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#42
Vinyl Acetate
Concen: 115.256 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 43	Resp: 554646
Ion Ratio	Lower Upper
43 100	
86 10.9	9.2 13.8





#43

Ethyl Acetate

Concen: 22.807 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

Tgt Ion: 43 Resp: 62407

Ion Ratio Lower Upper

43 100

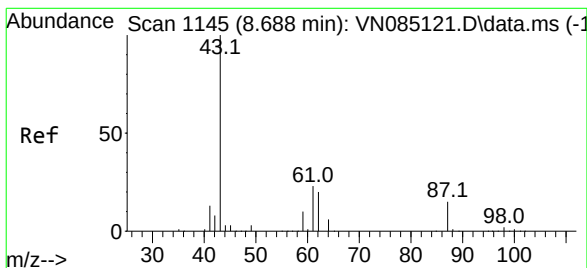
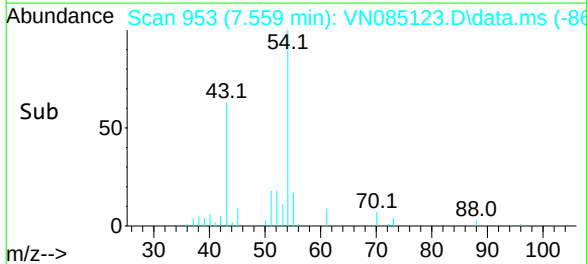
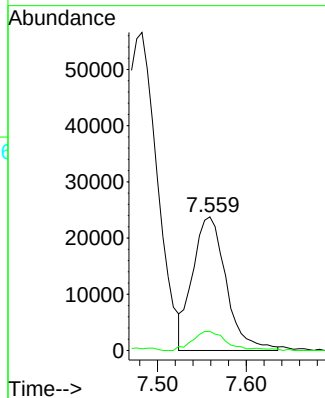
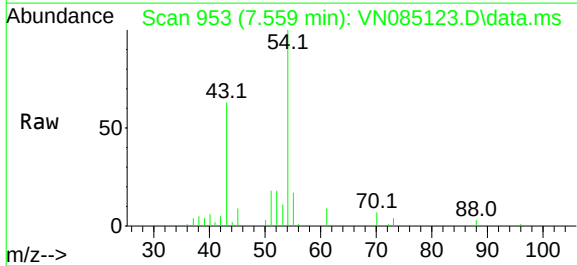
45 13.7 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#44

Isopropyl Acetate

Concen: 21.770 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN085123.D

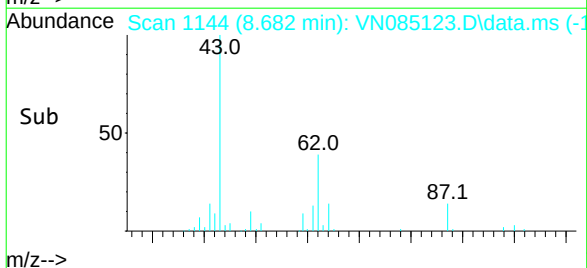
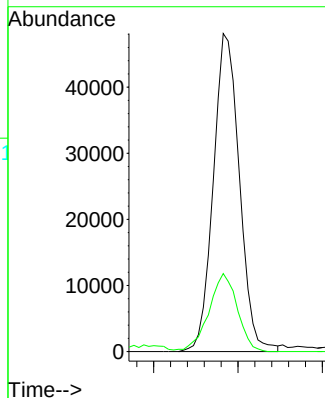
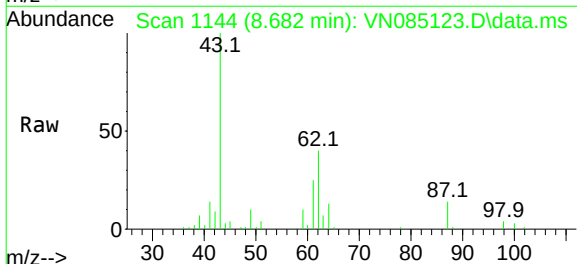
Acq: 06 Dec 2024 12:28

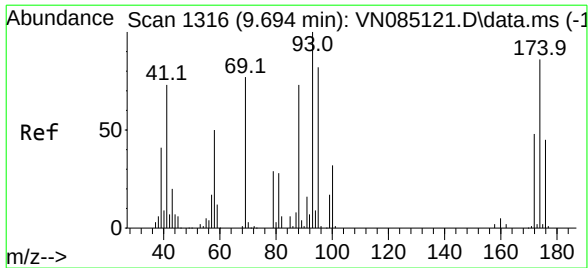
Tgt Ion: 43 Resp: 103521

Ion Ratio Lower Upper

43 100

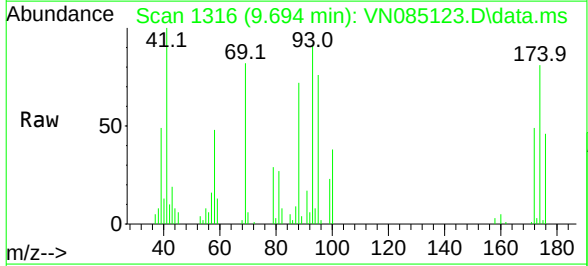
61 26.8 21.5 32.3





#45
1,4-Dioxane
Concen: 437.438 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

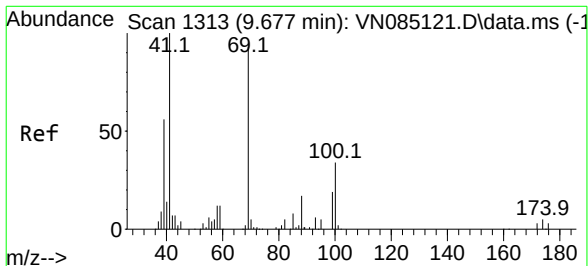
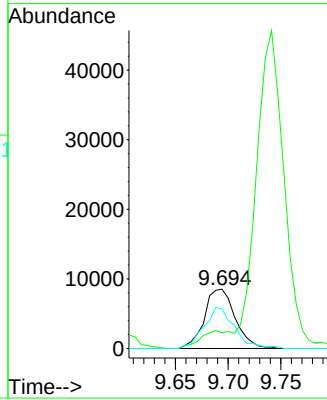
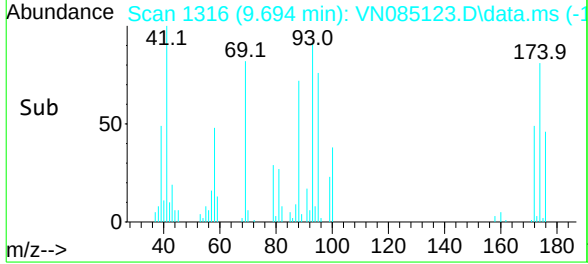
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 88 Resp: 17346
Ion Ratio Lower Upper
88 100
43 31.7 21.7 32.5
58 67.5 52.6 79.0

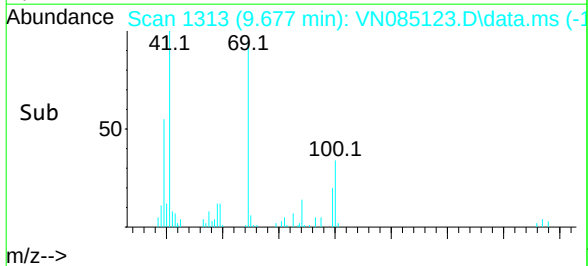
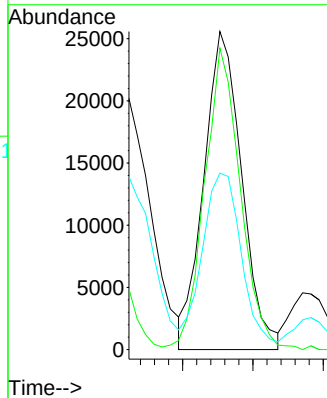
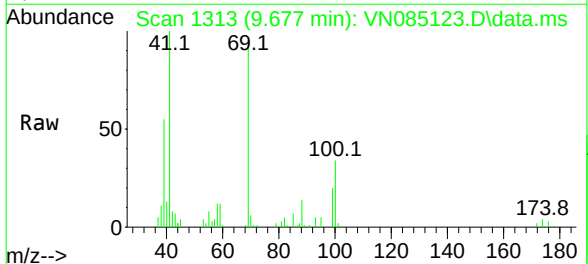
Manual Integrations
APPROVED

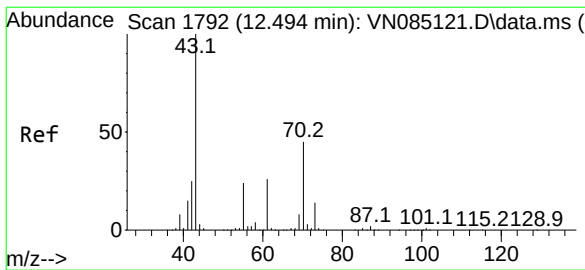
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#46
Methyl methacrylate
Concen: 21.989 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 41 Resp: 47854
Ion Ratio Lower Upper
41 100
69 98.5 46.7 140.0
39 56.0 28.5 85.5





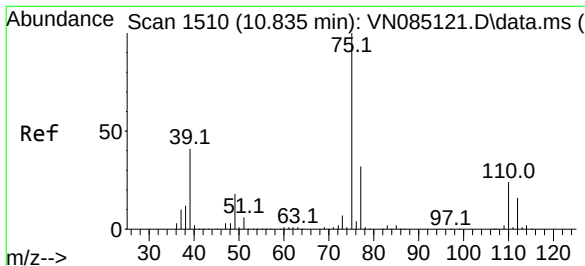
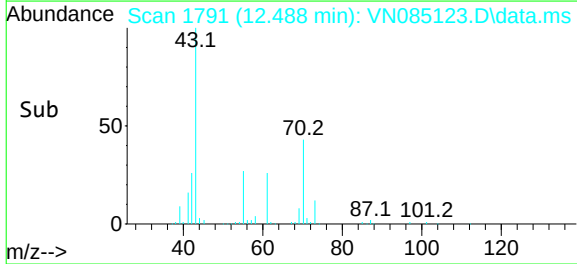
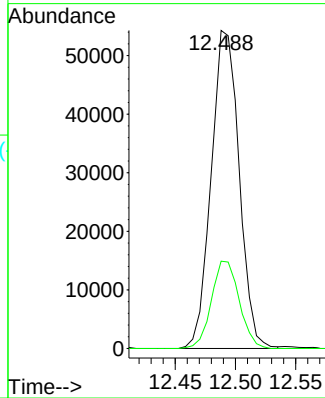
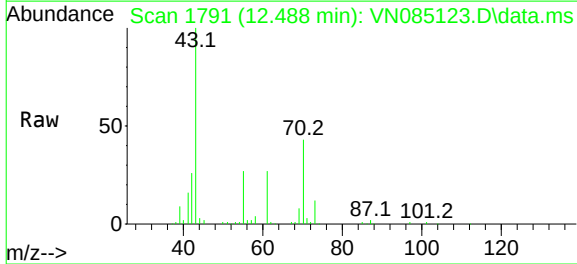
#47
n-amy1 Acetate
Concen: 21.920 ug/l
RT: 12.488 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument : MSVOA_N
ClientSampleId : ICVVN120624

Tgt Ion: 43 Resp: 87700
Ion Ratio Lower Upper
43 100
55 27.3 23.3 34.9

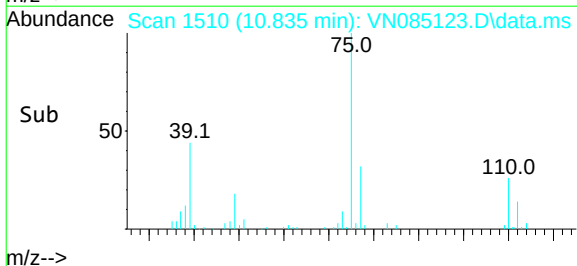
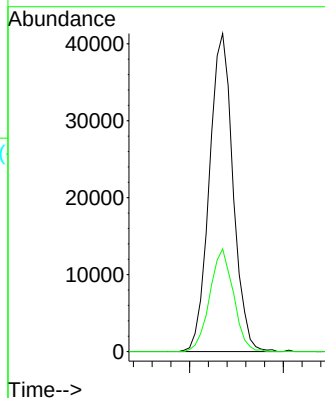
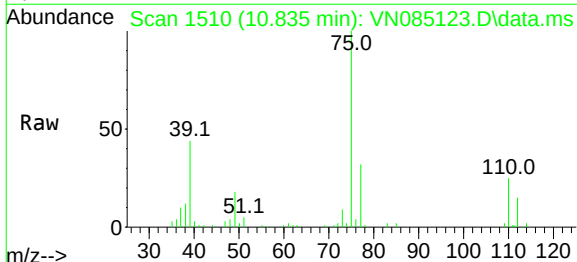
Manual Integrations
APPROVED

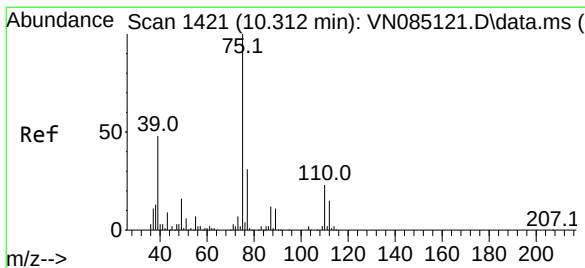
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#48
t-1,3-Dichloropropene
Concen: 21.161 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 75 Resp: 72633
Ion Ratio Lower Upper
75 100
77 32.3 25.5 38.3





#49

cis-1,3-Dichloropropene

Concen: 21.333 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

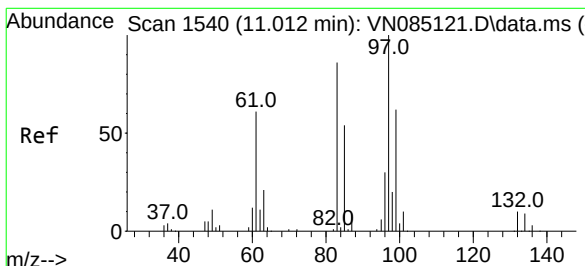
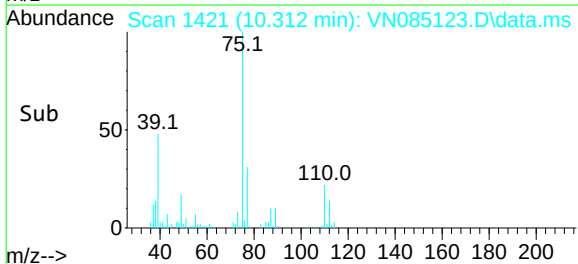
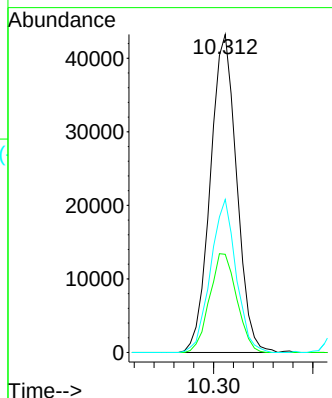
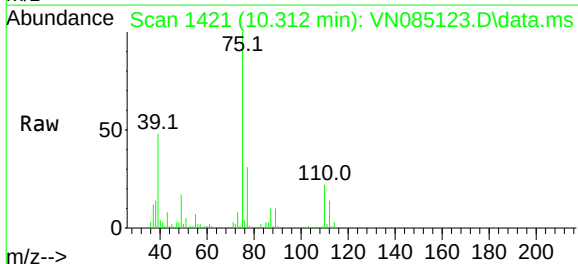
ClientSampleId :

ICVVN120624

Tgt Ion: 75	Resp: 79711
Ion Ratio	Lower Upper
75 100	
77 30.9	23.8 35.6
39 48.1	37.3 55.9

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#50

1,1,2-Trichloroethane

Concen: 21.441 ug/l

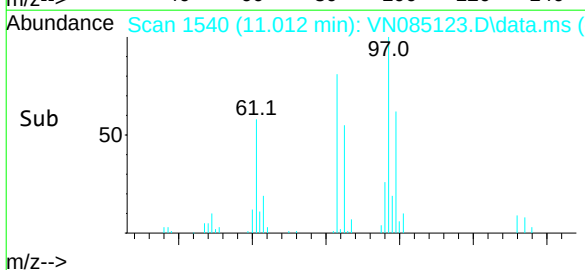
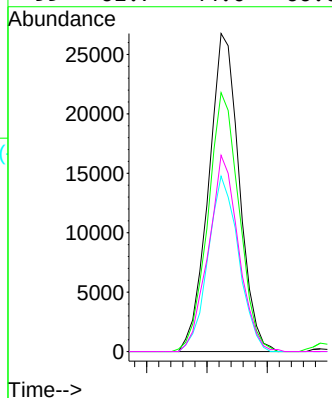
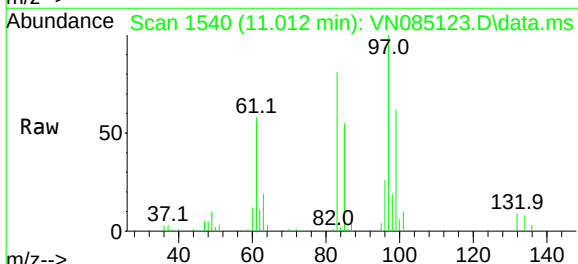
RT: 11.012 min Scan# 1540

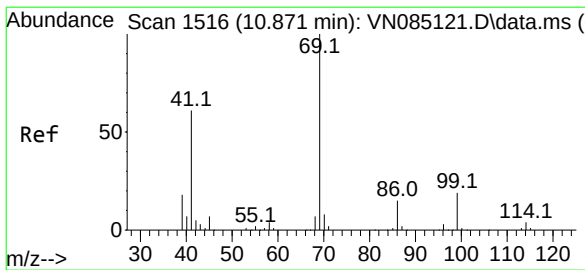
Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Tgt Ion: 97	Resp: 47258
Ion Ratio	Lower Upper
97 100	
83 81.4	65.8 98.8
85 55.1	40.8 61.2
99 61.7	44.0 66.0





#51
Ethyl methacrylate
Concen: 22.113 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

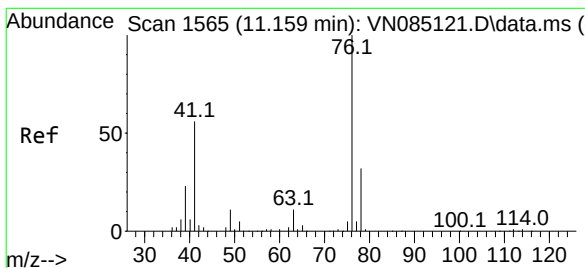
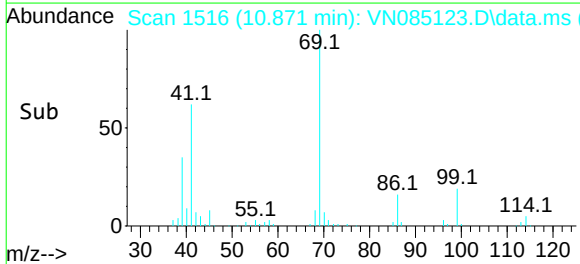
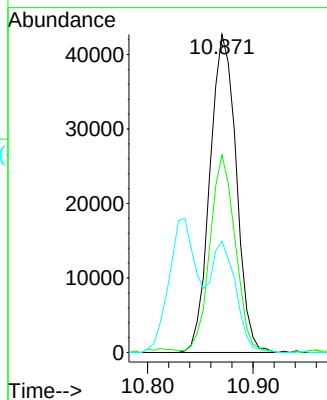
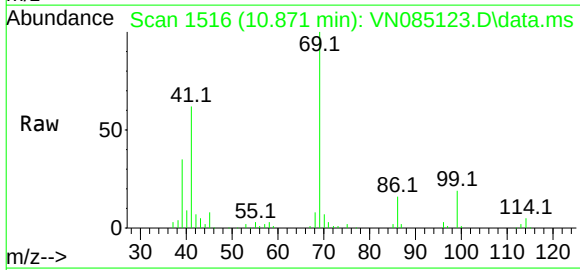
ClientSampleId :

ICVVN120624

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.0	32.1	96.3
39	35.0	18.8	56.4

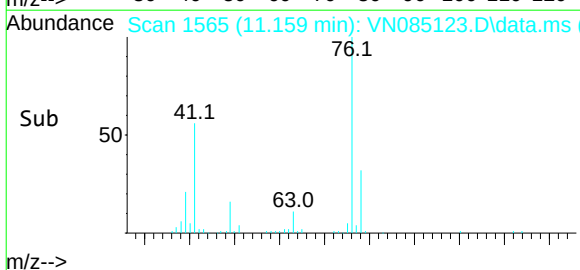
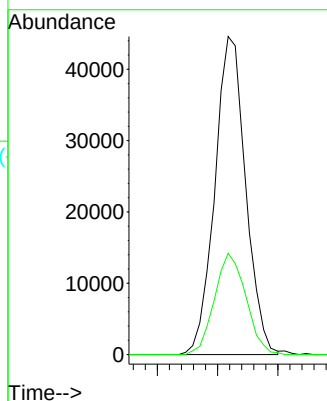
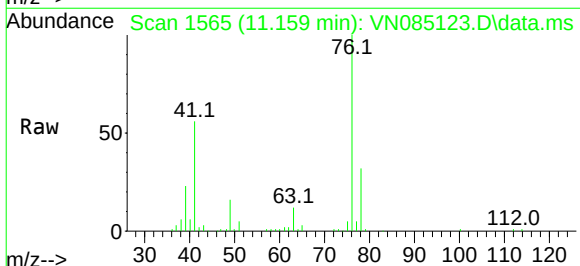
Manual Integrations
APPROVED

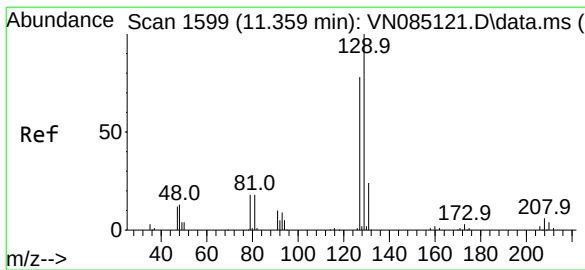
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#52
1,3-Dichloropropane
Concen: 21.486 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.5	0.0	65.6





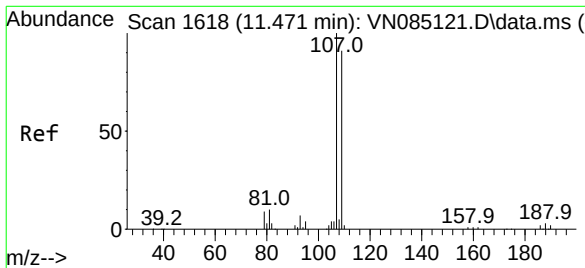
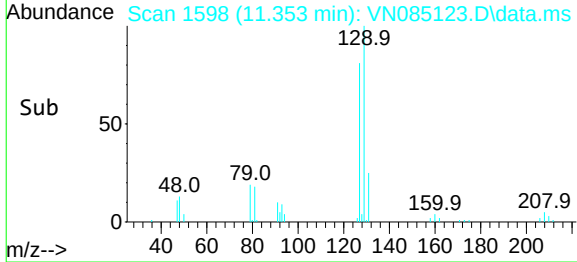
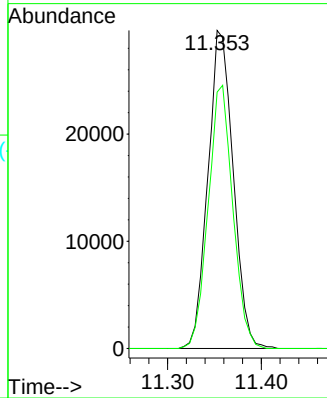
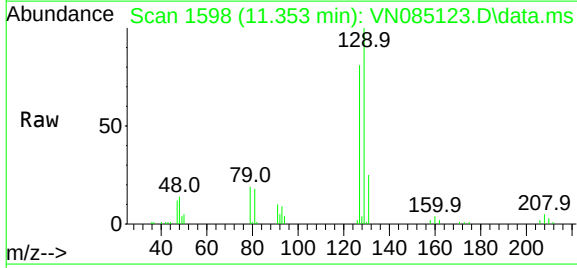
#53
Dibromochloromethane
Concen: 20.701 ug/l
RT: 11.353 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion:129 Resp: 55601
Ion Ratio Lower Upper
129 100
127 80.6 37.3 111.9

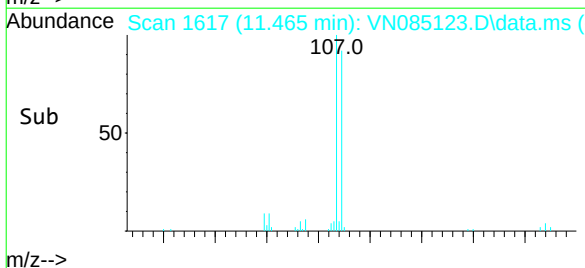
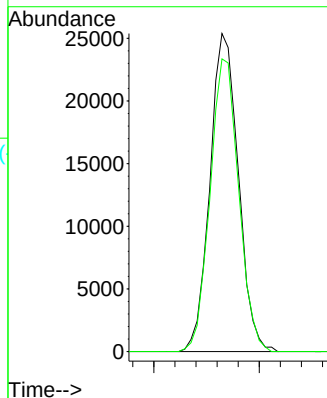
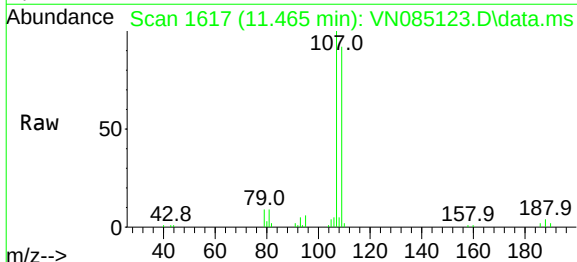
Manual Integrations
APPROVED

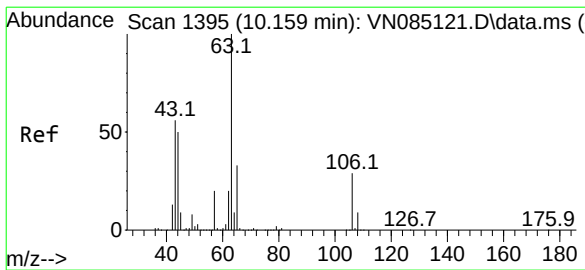
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#54
1,2-Dibromoethane
Concen: 21.396 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

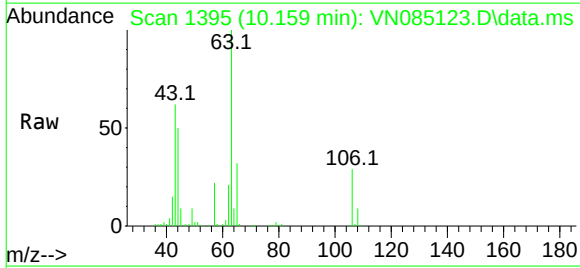
Tgt Ion:107 Resp: 47513
Ion Ratio Lower Upper
107 100
109 92.7 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 77.670 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

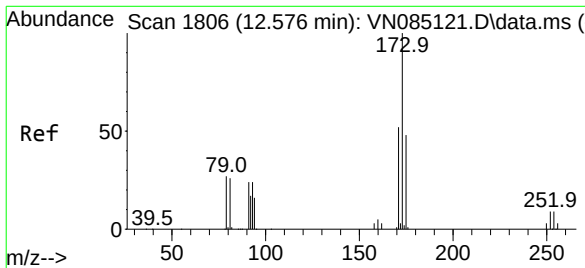
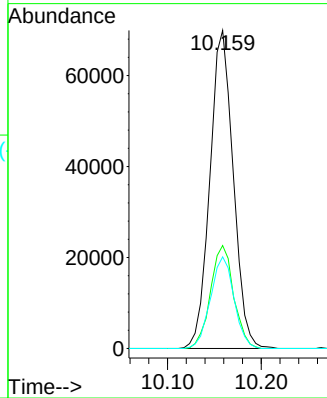
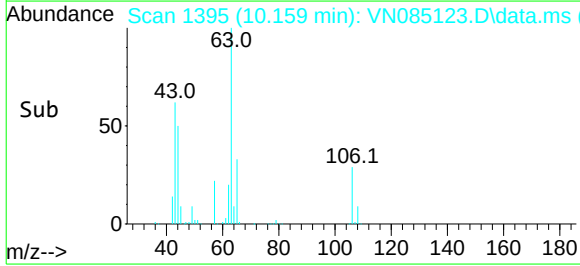
Instrument : MSVOA_N
ClientSampleId : ICVVN120624



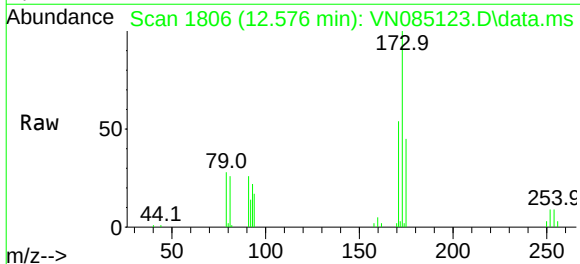
Tgt Ion: 63 Resp: 120953
Ion Ratio Lower Upper
63 100
65 32.2 25.9 38.9
106 29.1 23.5 35.3

Manual Integrations
APPROVED

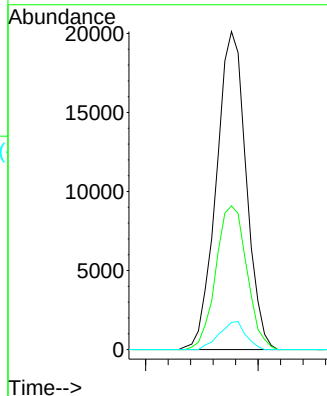
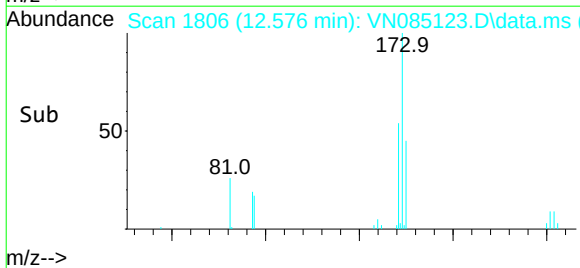
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

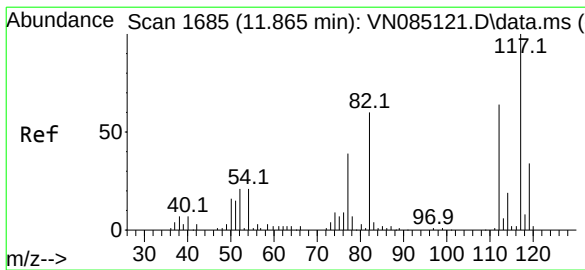


#56
Bromoform
Concen: 20.588 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28



Tgt Ion:173 Resp: 37077
Ion Ratio Lower Upper
173 100
175 46.8 40.2 60.2
254 7.8 6.2 9.4





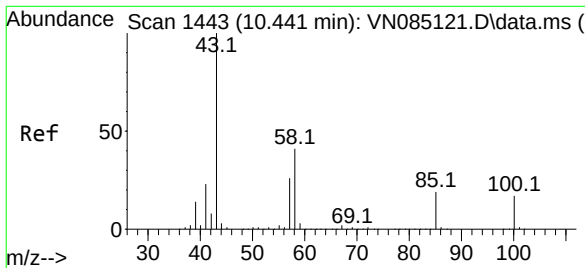
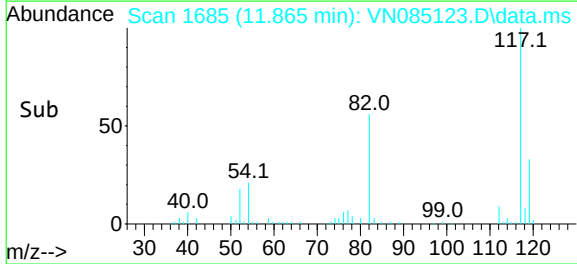
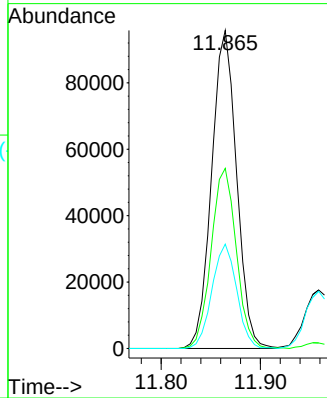
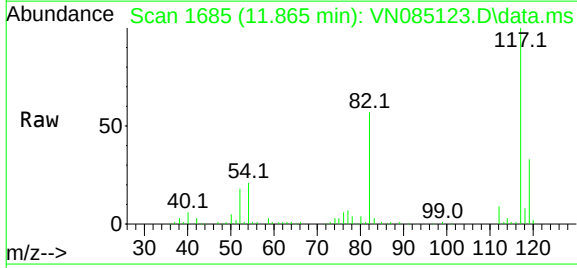
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion:117 Resp: 167596
Ion Ratio Lower Upper
117 100
82 57.1 44.2 66.4
119 32.4 25.4 38.2

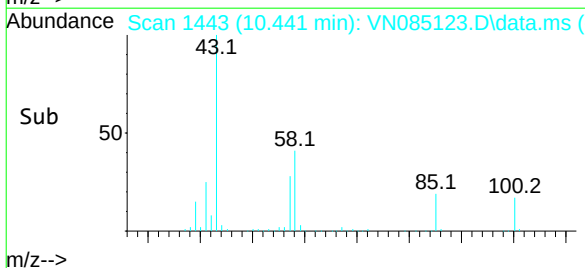
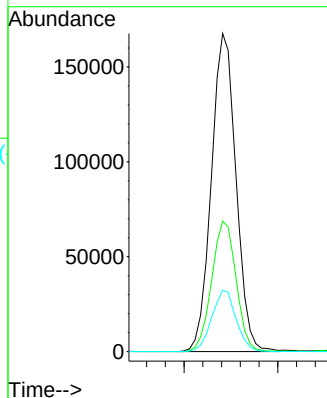
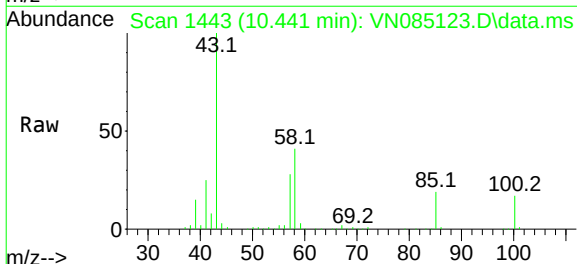
Manual Integrations
APPROVED

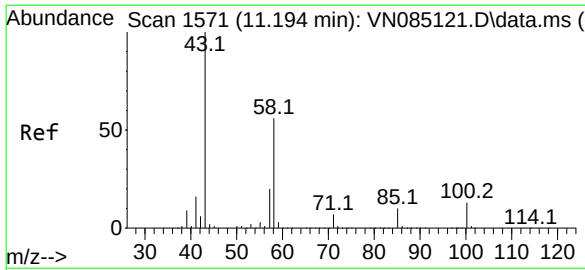
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#58
4-Methyl-2-Pentanone
Concen: 111.787 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

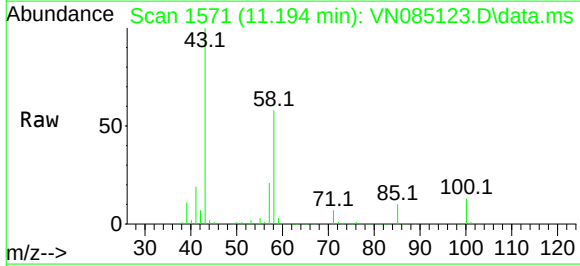
Tgt Ion: 43 Resp: 305762
Ion Ratio Lower Upper
43 100
58 40.7 31.6 47.4
85 19.0 15.0 22.6





#59
2-Hexanone
Concen: 112.607 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

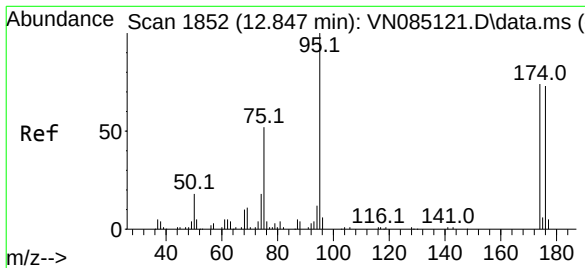
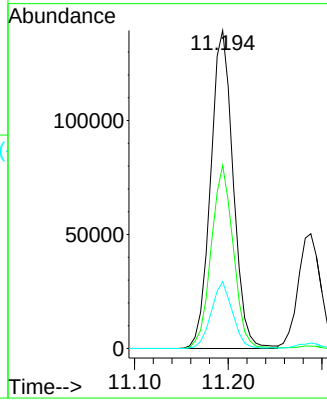
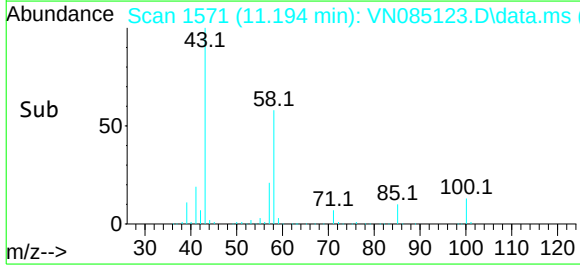
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN120624



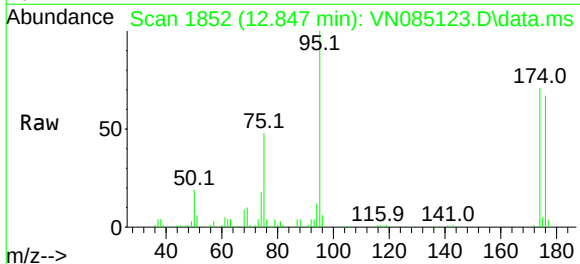
Tgt Ion: 43 Resp: 233377
Ion Ratio Lower Upper
43 100
58 56.1 43.6 65.4
57 19.8 15.4 23.0

Manual Integrations
APPROVED

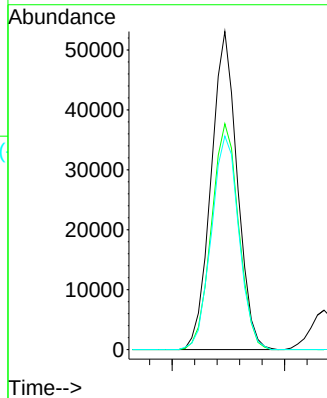
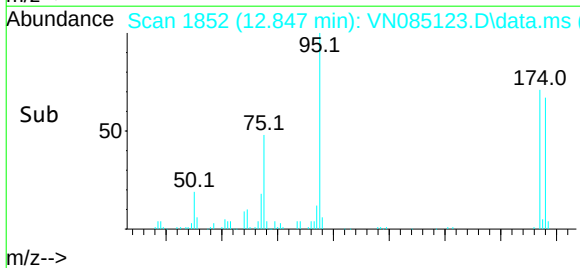
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

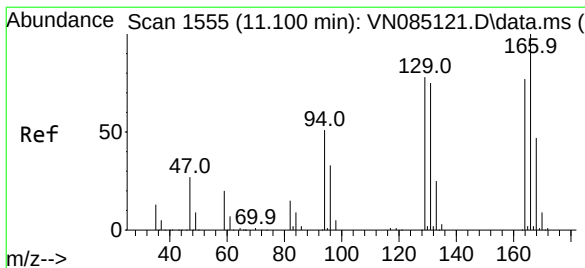


#60
4-Bromofluorobenzene
Concen: 30.966 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28



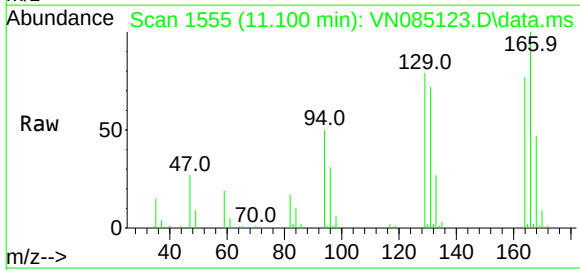
Tgt Ion: 95 Resp: 85871
Ion Ratio Lower Upper
95 100
174 73.6 60.3 90.5
176 70.5 57.4 86.0





#61
Tetrachloroethene
Concen: 22.294 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

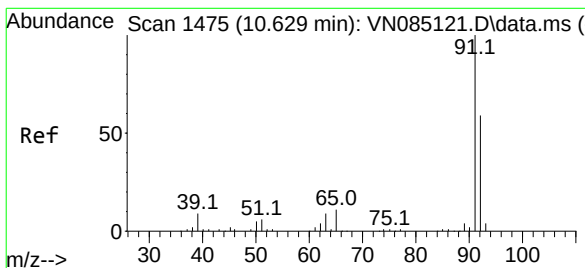
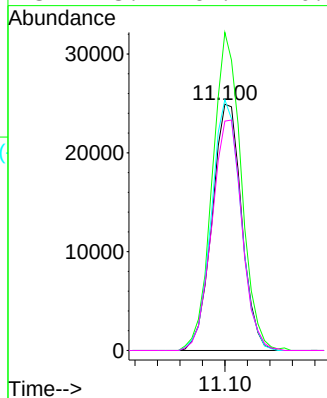
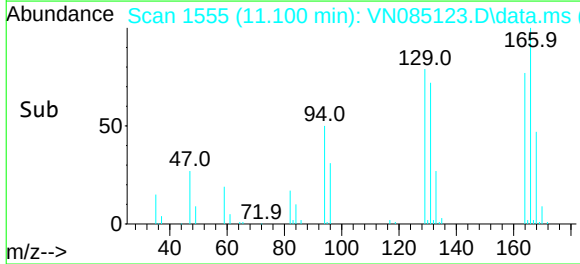
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 164 Resp: 45248
Ion Ratio Lower Upper
164 100
166 129.1 103.8 155.8
129 101.8 84.2 126.4
131 93.1 84.1 126.1

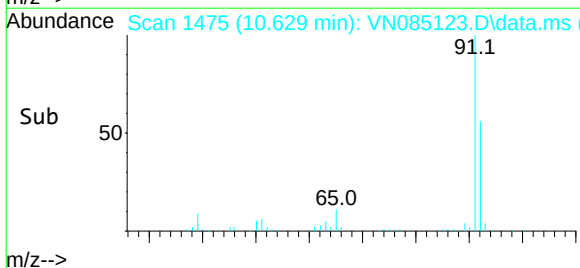
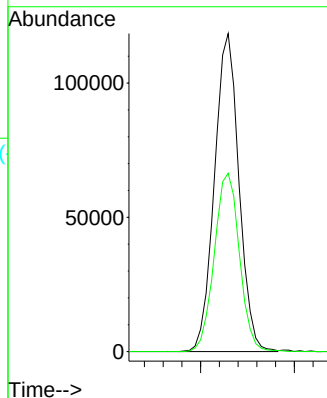
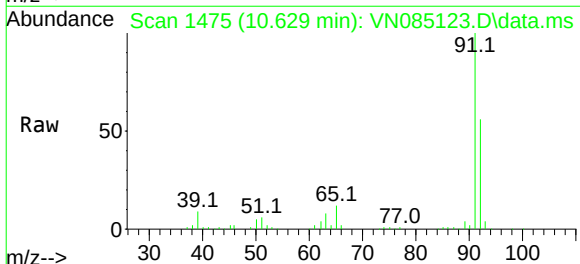
Manual Integrations
APPROVED

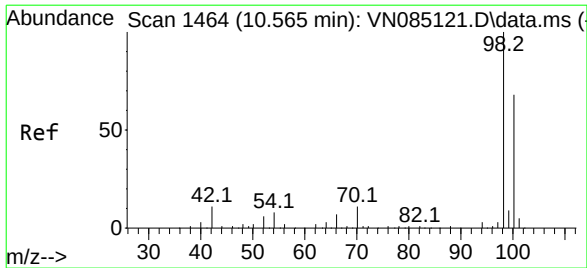
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#62
Toluene
Concen: 21.975 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 91 Resp: 214790
Ion Ratio Lower Upper
91 100
92 57.5 46.5 69.7





#63

Toluene-d8

Concen: 30.323 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

Tgt Ion: 98 Resp: 238389

Ion Ratio Lower Upper

98 100

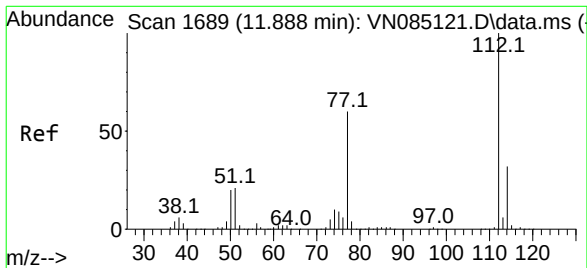
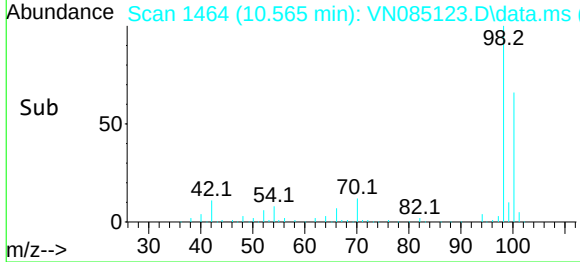
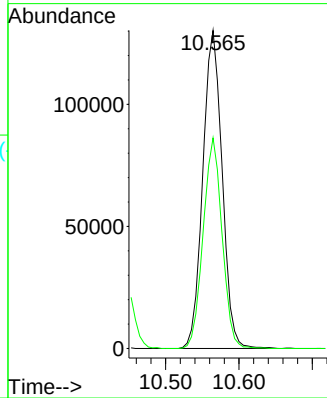
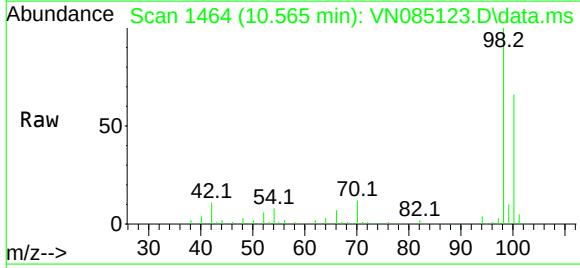
100 64.8 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#64

Chlorobenzene

Concen: 22.112 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085123.D

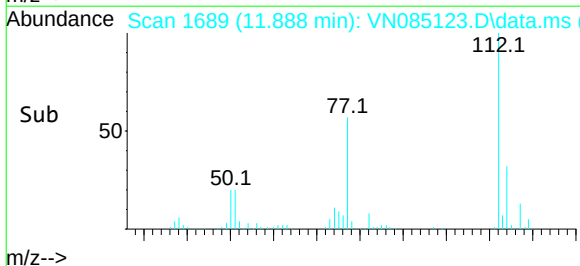
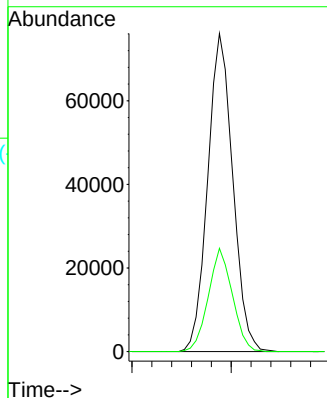
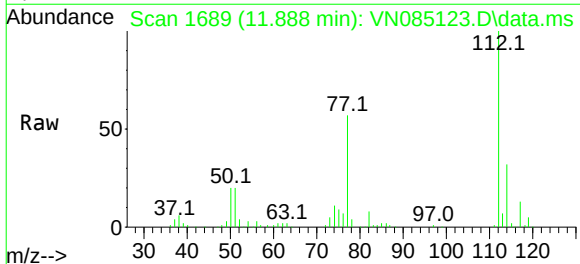
Acq: 06 Dec 2024 12:28

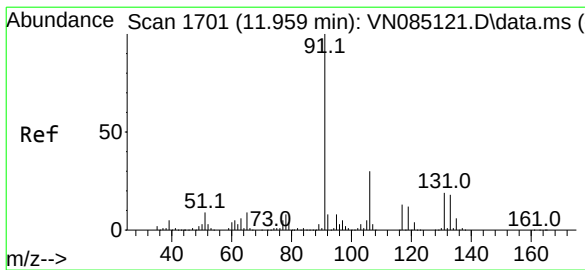
Tgt Ion:112 Resp: 133437

Ion Ratio Lower Upper

112 100

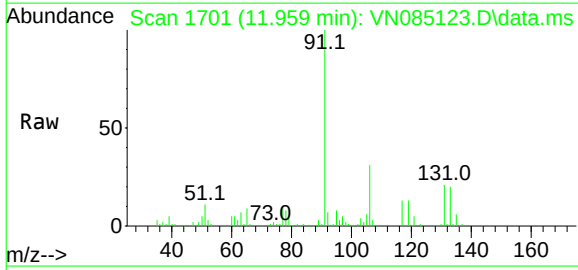
114 32.5 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 21.725 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

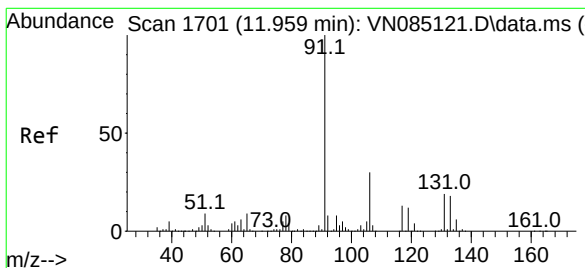
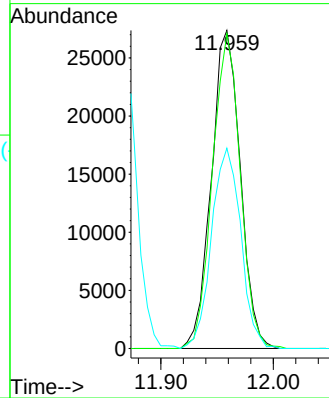
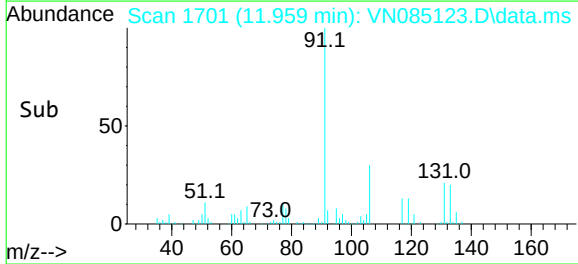
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 131 Resp: 48941
Ion Ratio Lower Upper
131 100
133 95.2 0.0 194.0
119 63.6 0.0 131.8

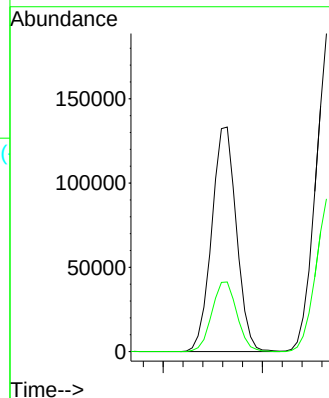
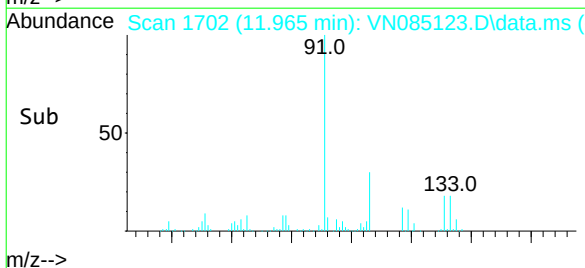
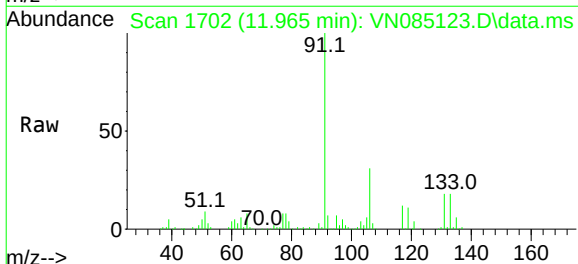
Manual Integrations
APPROVED

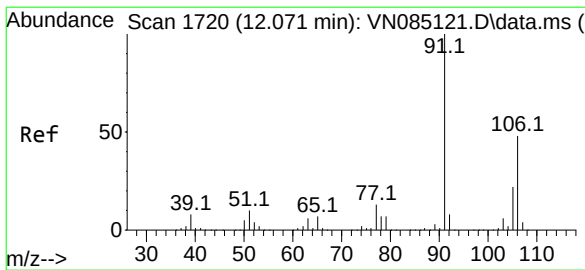
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#66
Ethyl Benzene
Concen: 22.300 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 91 Resp: 231289
Ion Ratio Lower Upper
91 100
106 31.0 23.1 34.7





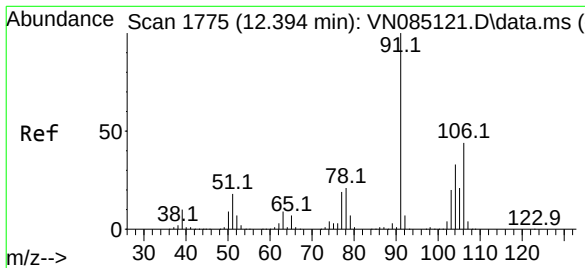
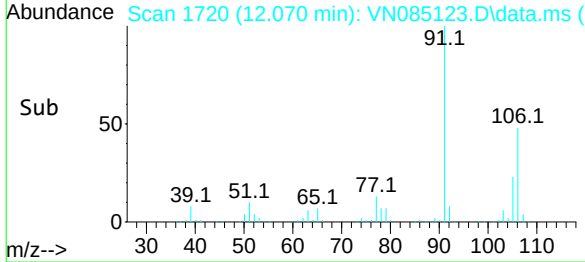
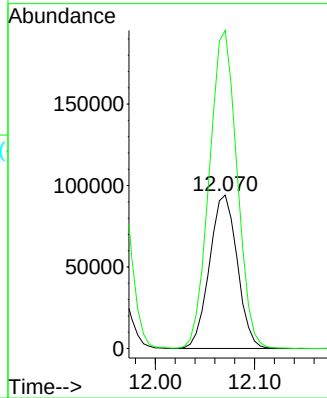
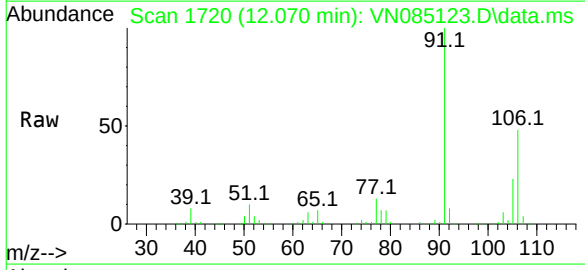
#67
m/p-Xylenes
Concen: 45.872 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion:106 Resp: 182990
Ion Ratio Lower Upper
106 100
91 207.4 165.0 247.4

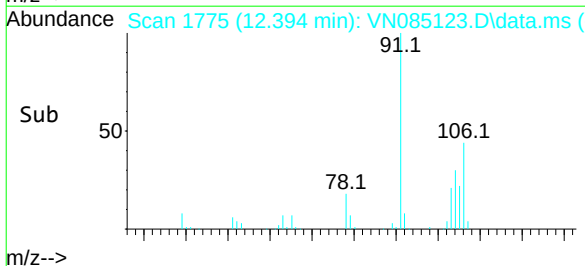
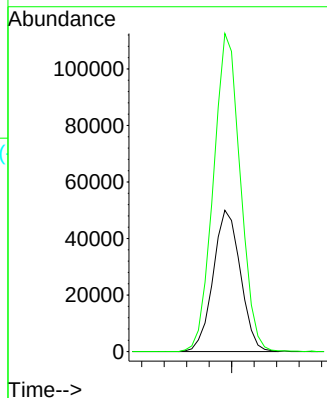
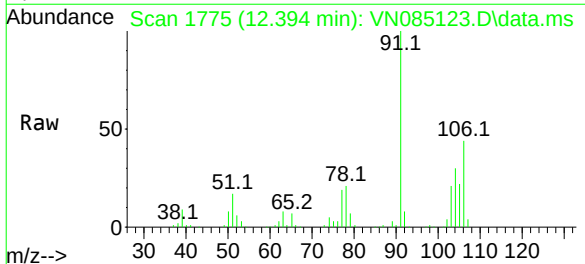
Manual Integrations
APPROVED

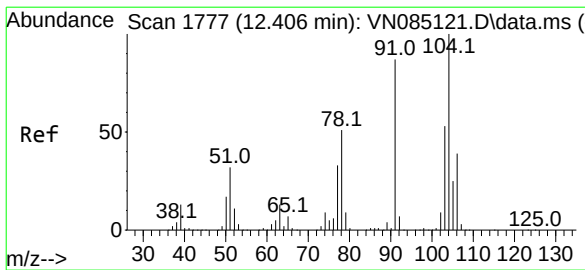
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#68
o-Xylene
Concen: 22.492 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:106 Resp: 84266
Ion Ratio Lower Upper
106 100
91 222.2 112.1 336.4





#69

Styrene

Concen: 22.822 ug/l

RT: 12.412 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

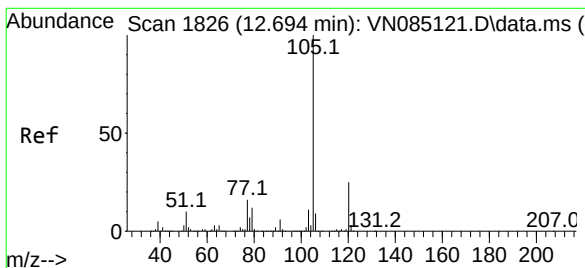
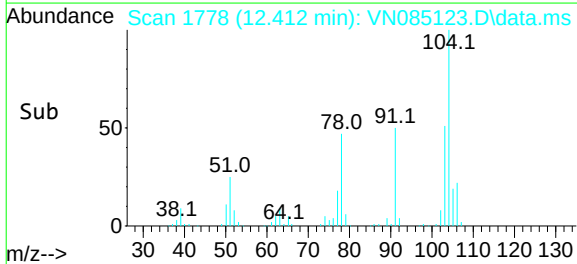
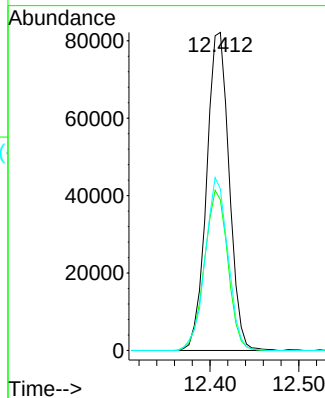
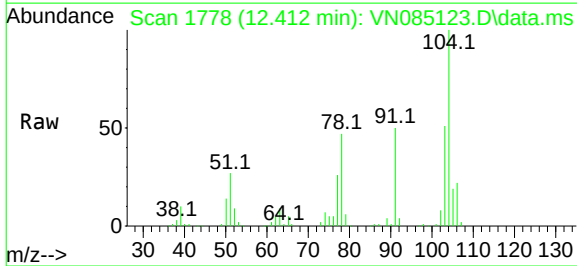
ICVVN120624

Tgt Ion	Ratio	Lower	Upper
104	100		
78	52.2	42.3	63.5
103	55.1	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#70

Isopropylbenzene

Concen: 22.540 ug/l

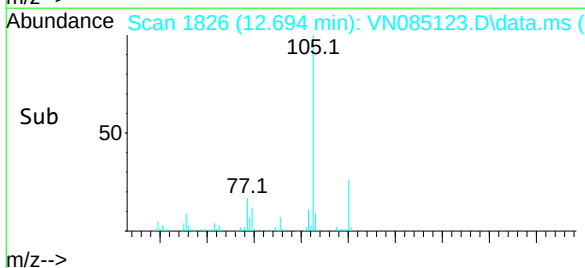
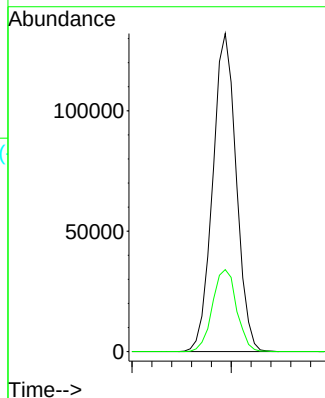
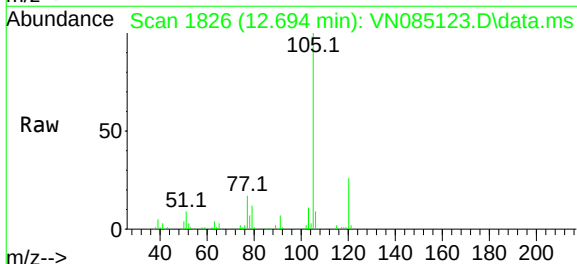
RT: 12.694 min Scan# 1826

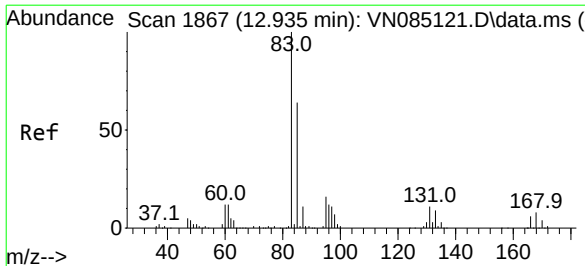
Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

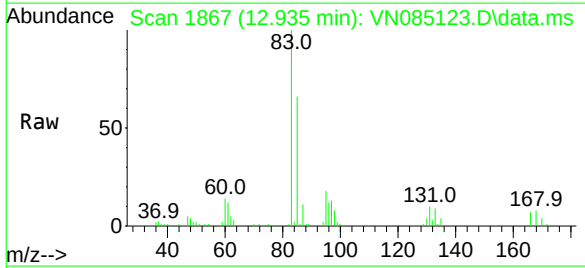
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	18.3	33.9





#71
1,1,2,2-Tetrachloroethane
Concen: 22.210 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

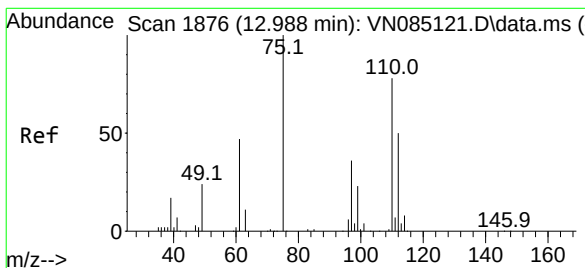
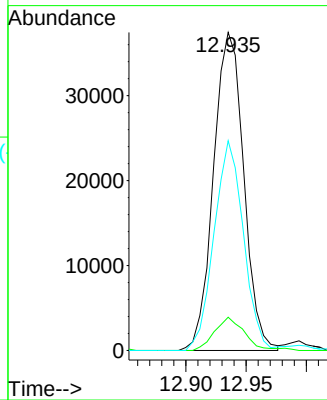
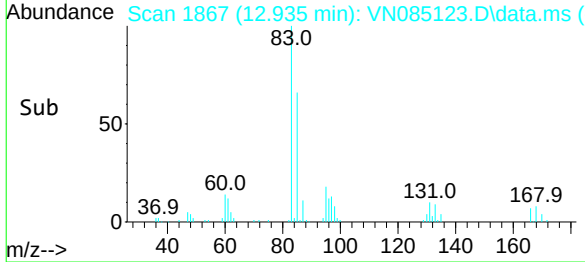
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion:	83	Resp:	65321
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	64.0	31.1	93.5

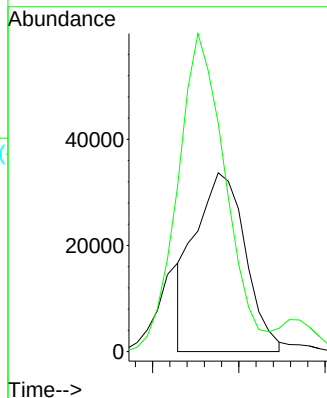
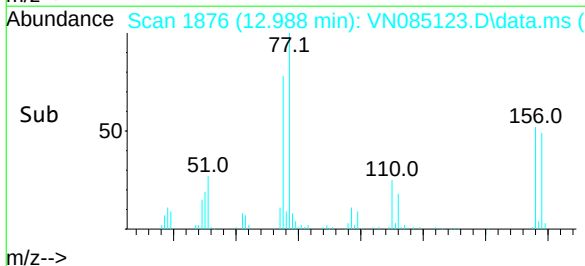
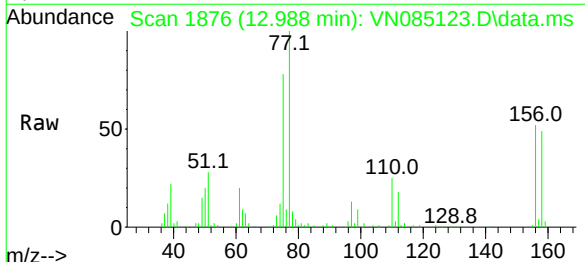
Manual Integrations
APPROVED

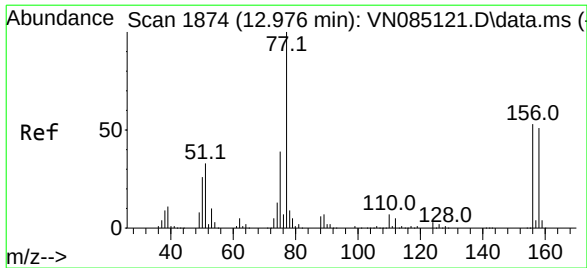
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#72
1,2,3-Trichloropropane
Concen: 23.445 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:	75	Resp:	68116
Ion	Ratio	Lower	Upper
75	100		
77	169.9	0.0	339.0





#73

Bromobenzene

Concen: 22.241 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

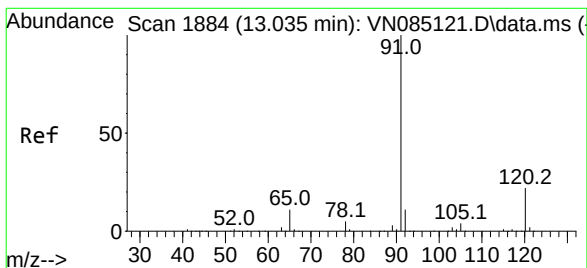
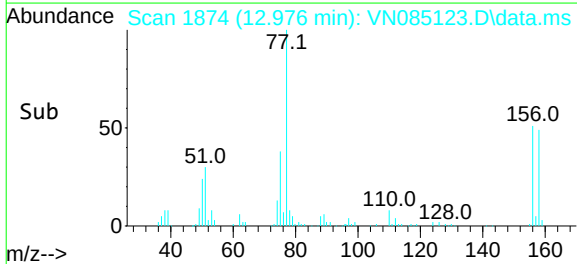
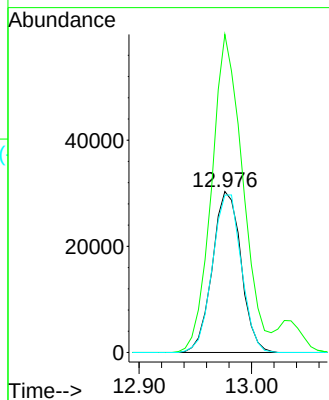
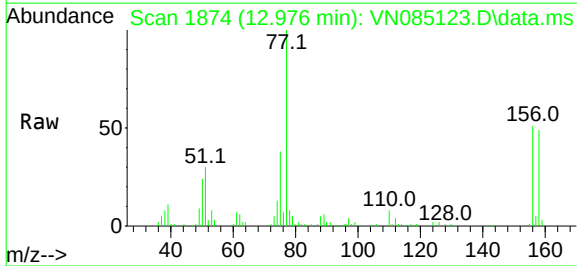
ICVVN120624

Tgt Ion:	156	Resp:	53832
Ion Ratio	Lower	Upper	
156	100		
77	215.0	0.0	430.4
158	99.0	0.0	195.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#74

n-propylbenzene

Concen: 22.470 ug/l

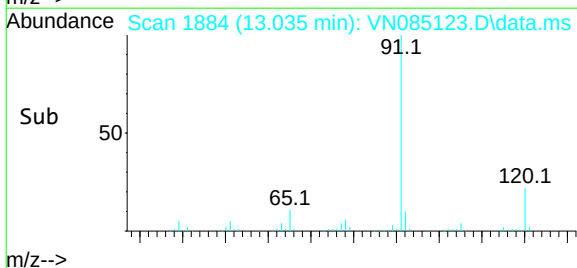
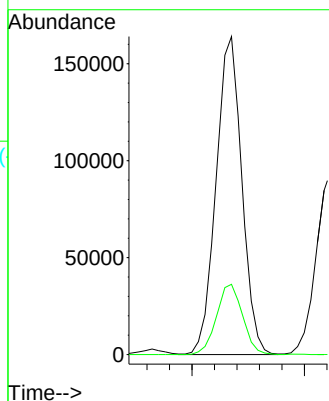
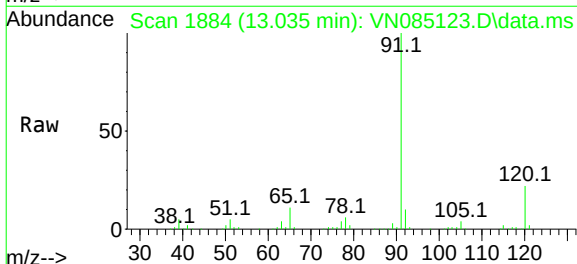
RT: 13.035 min Scan# 1884

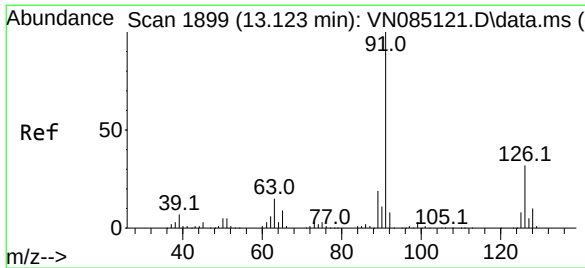
Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Tgt Ion:	91	Resp:	261027
Ion Ratio	Lower	Upper	
91	100		
120	22.3	0.0	44.0





#75

2-Chlorotoluene

Concen: 22.446 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

Tgt Ion: 91 Resp: 161221

Ion Ratio Lower Upper

91 100

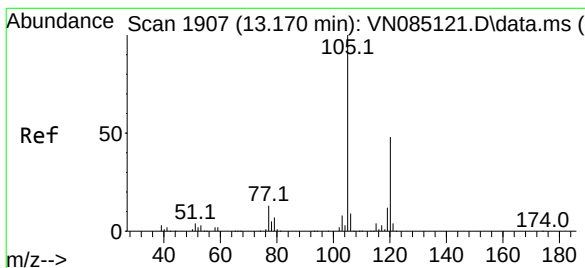
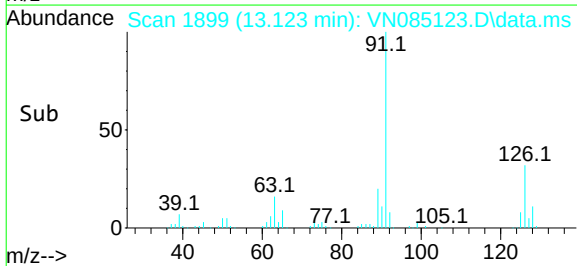
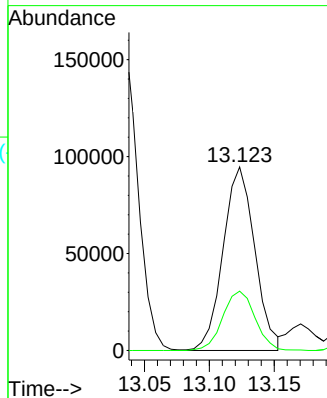
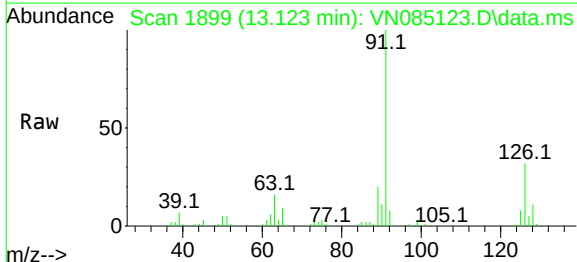
126 32.9 0.0 64.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024

Supervised By :Semsettin Yesilyurt 12/09/2024



#76

1,3,5-Trimethylbenzene

Concen: 22.843 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085123.D

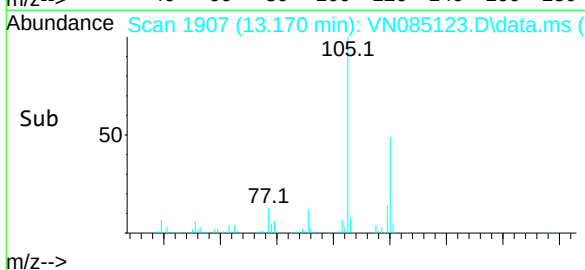
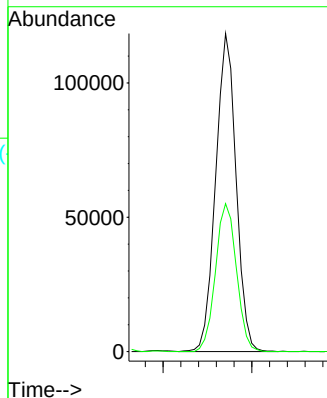
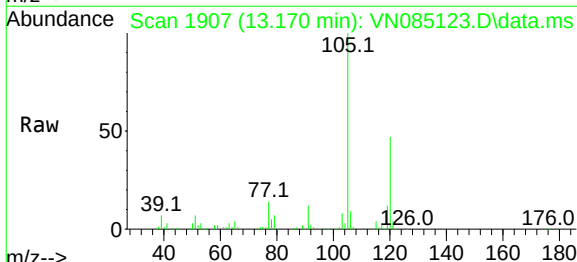
Acq: 06 Dec 2024 12:28

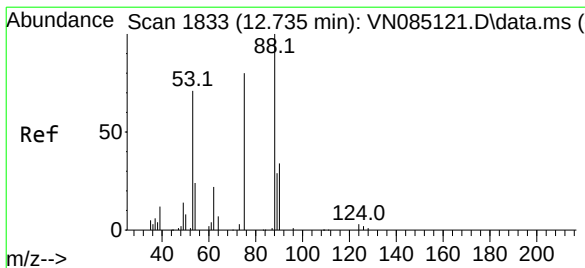
Tgt Ion:105 Resp: 189105

Ion Ratio Lower Upper

105 100

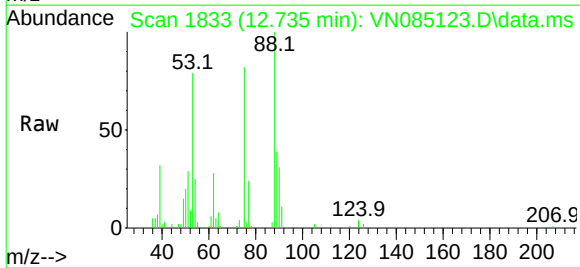
120 47.7 0.0 94.4





#77
t-1,4-Dichloro-2-butene
Concen: 21.535 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

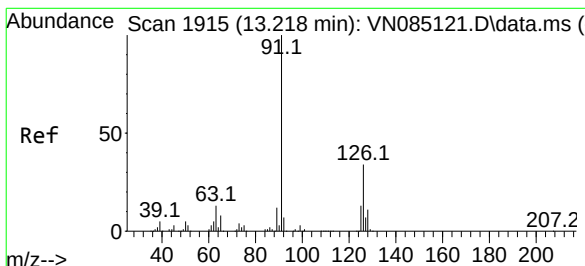
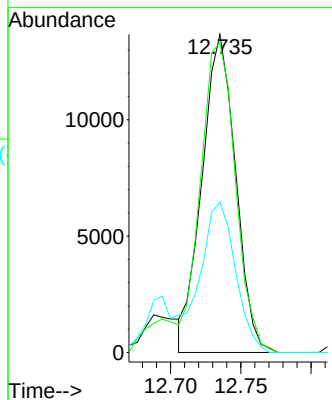
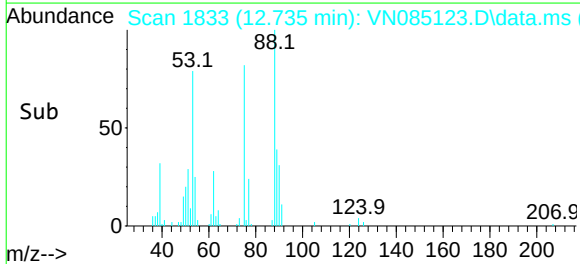
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



Tgt Ion: 75 Resp: 22735
Ion Ratio Lower Upper
75 100
53 97.4 49.1 147.3
89 47.2 22.9 68.5

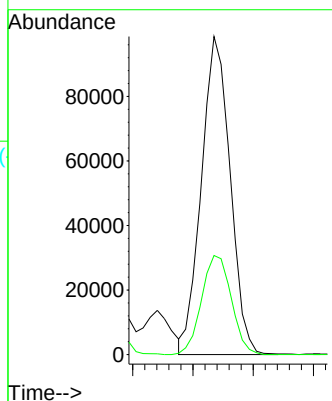
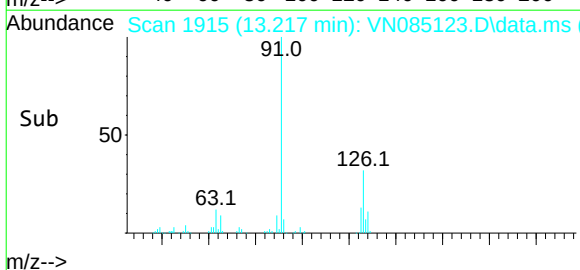
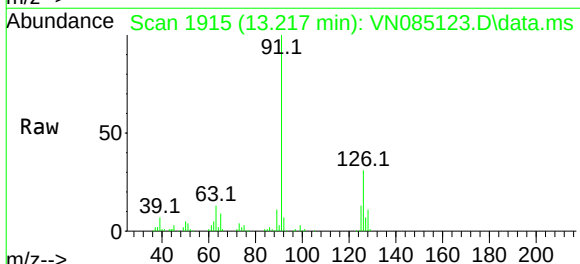
Manual Integrations
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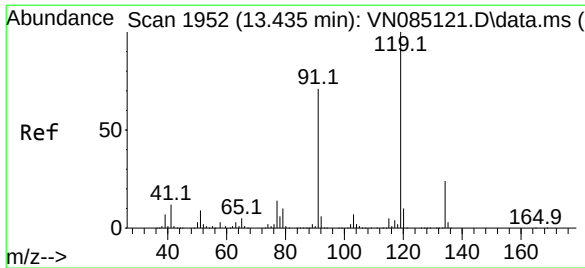
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#78
4-Chlorotoluene
Concen: 22.456 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 91 Resp: 163711
Ion Ratio Lower Upper
91 100
126 32.1 0.0 64.4





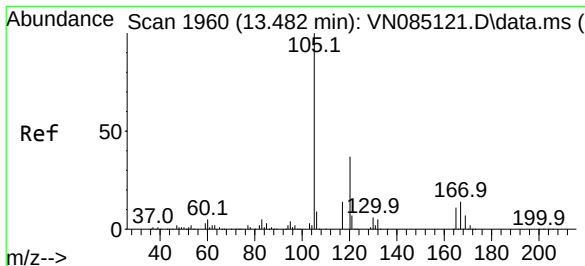
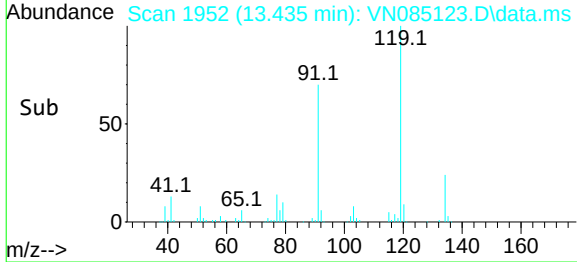
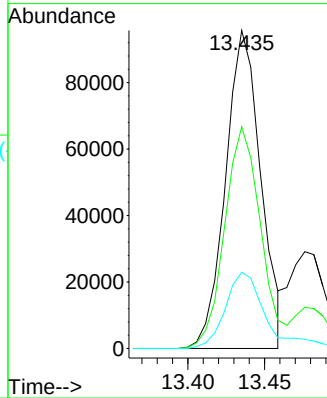
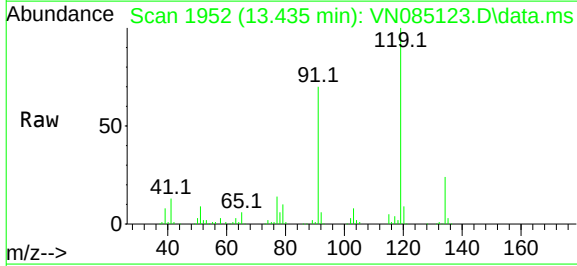
#79
tert-butylbenzene
Concen: 22.471 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion:119 Resp: 152793
Ion Ratio Lower Upper
119 100
91 71.6 0.0 139.2
134 25.0 0.0 48.0

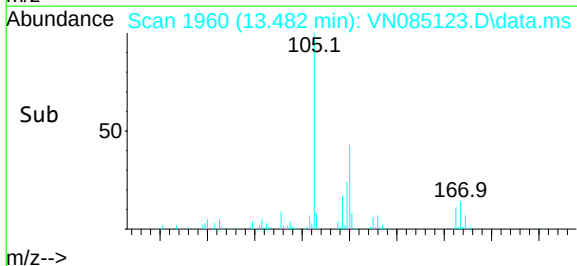
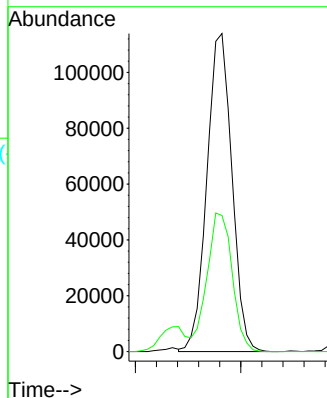
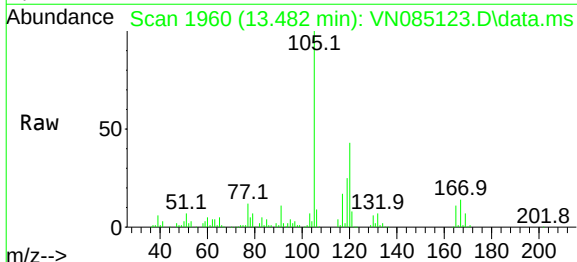
Manual Integrations
APPROVED

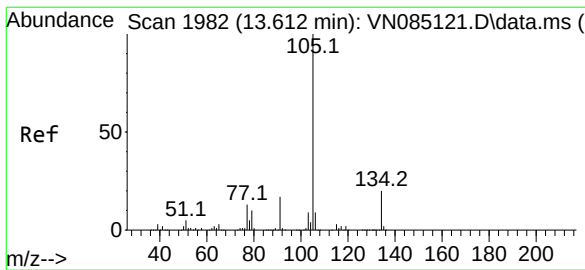
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#80
1,2,4-Trimethylbenzene
Concen: 22.992 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

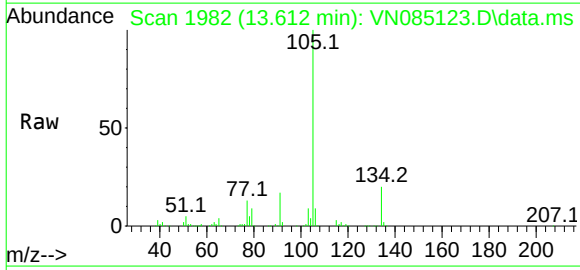
Tgt Ion:105 Resp: 188016
Ion Ratio Lower Upper
105 100
120 43.7 0.0 87.4





#81
sec-Butylbenzene
Concen: 22.925 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

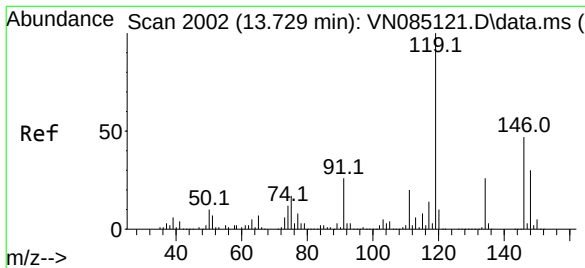
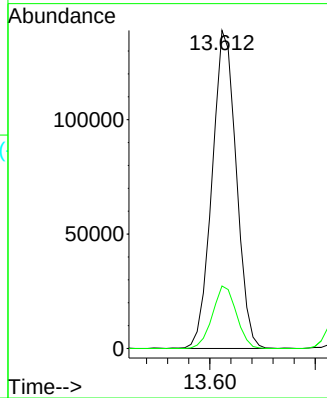
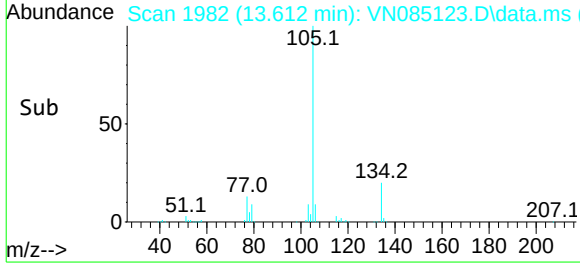
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624



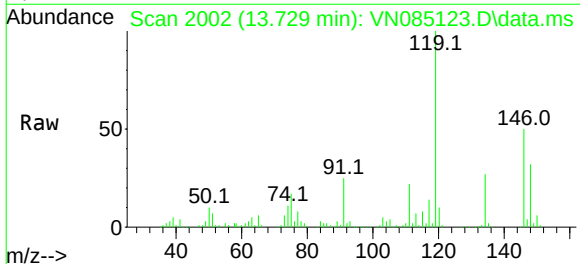
Tgt Ion:105 Resp: 221463
Ion Ratio Lower Upper
105 100
134 19.4 0.0 38.0

Manual Integrations
APPROVED

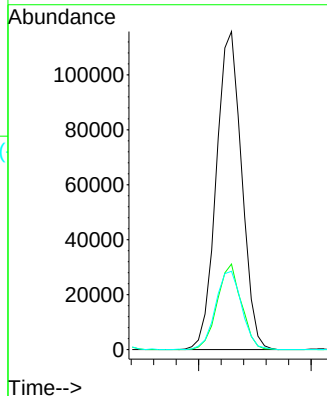
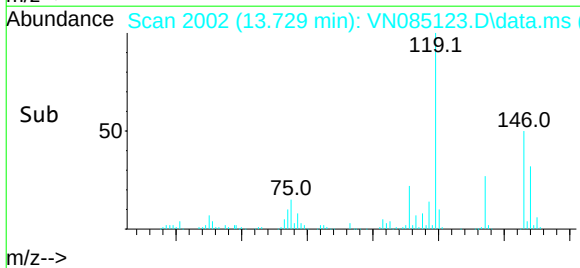
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024

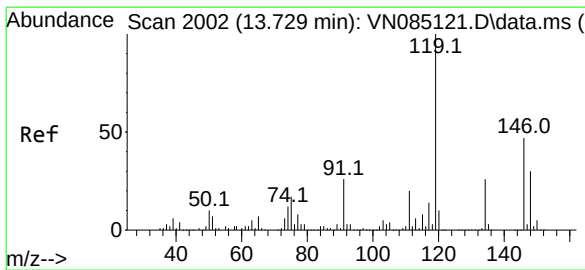


#82
p-Isopropyltoluene
Concen: 22.702 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28



Tgt Ion:119 Resp: 181815
Ion Ratio Lower Upper
119 100
134 25.6 0.0 51.6
91 25.5 0.0 50.4





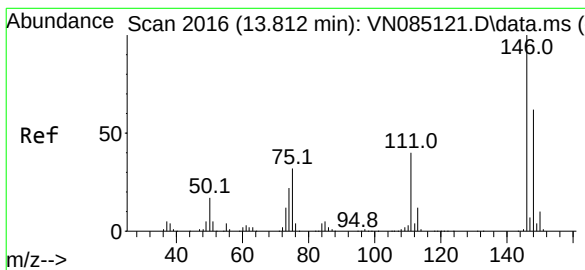
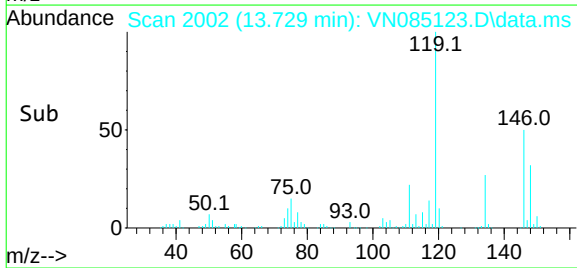
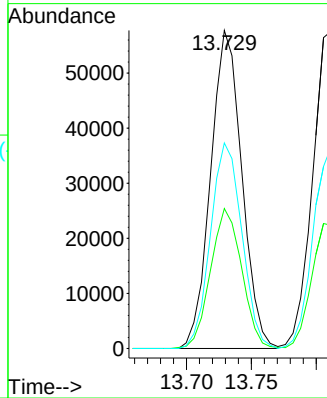
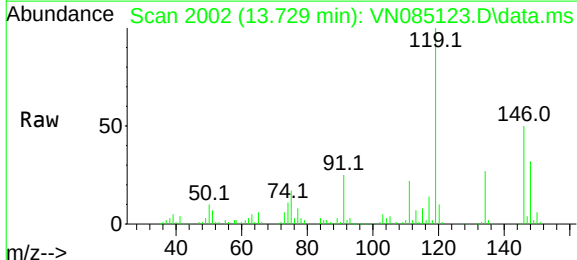
#83
1,3-Dichlorobenzene
Concen: 21.763 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion:146 Resp: 96640
Ion Ratio Lower Upper
146 100
111 44.0 21.1 63.3
148 64.8 31.8 95.3

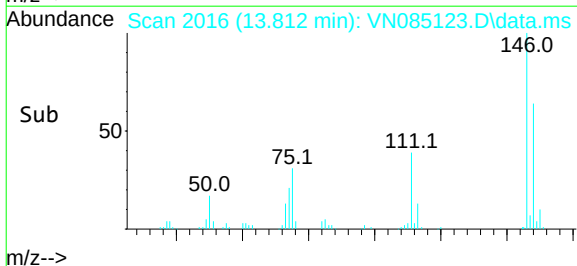
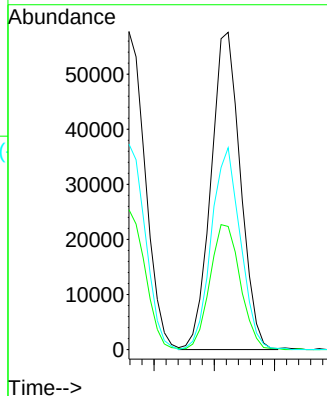
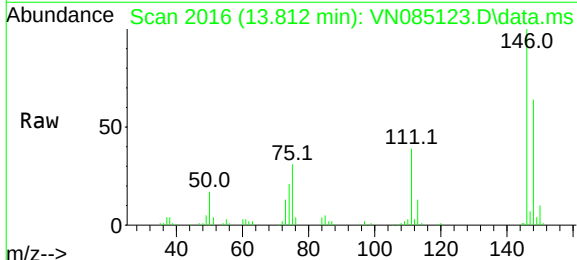
Manual Integrations
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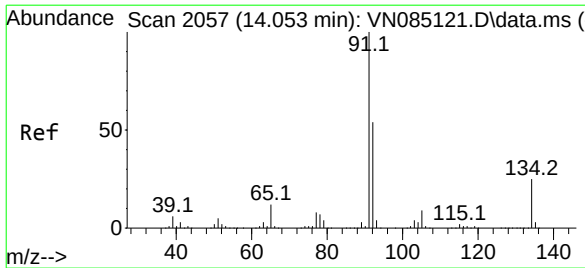
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#84
1,4-Dichlorobenzene
Concen: 22.651 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:146 Resp: 98028
Ion Ratio Lower Upper
146 100
111 39.8 20.1 60.3
148 62.6 31.6 94.7





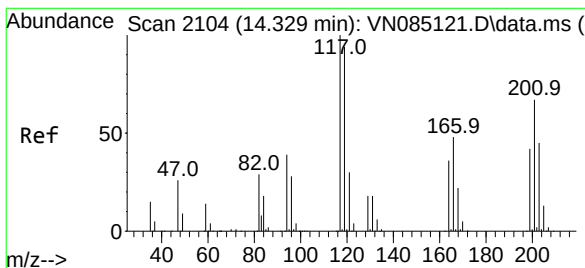
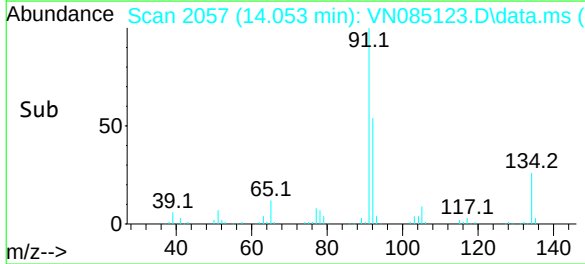
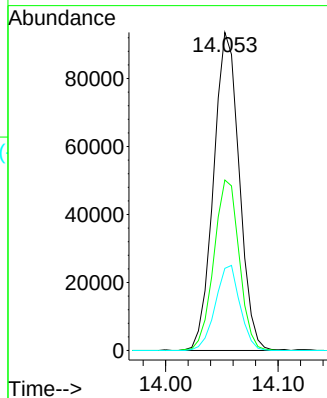
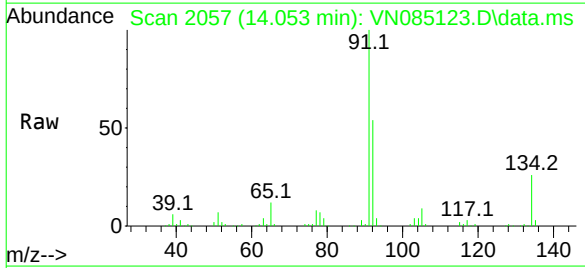
#85
n-Butylbenzene
Concen: 22.118 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion: 91 Resp: 148587
Ion Ratio Lower Upper
91 100
92 52.9 0.0 104.0
134 25.6 0.0 49.2

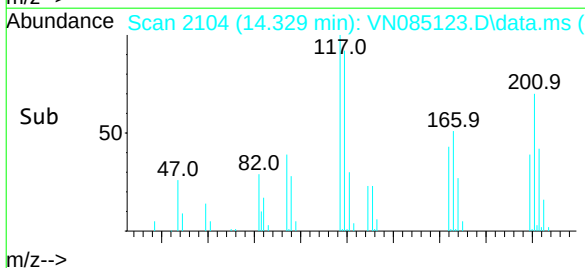
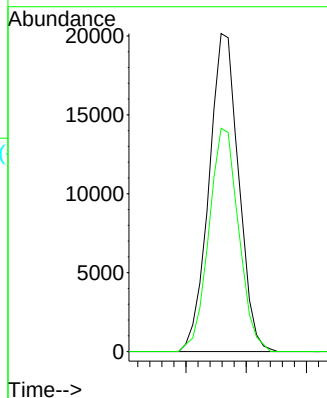
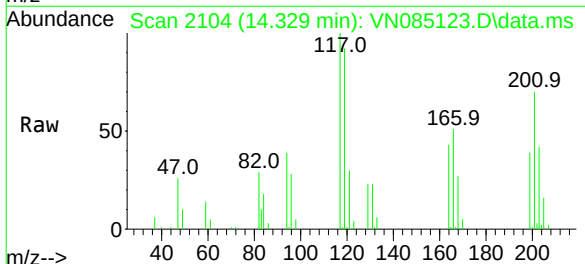
Manual Integrations
APPROVED

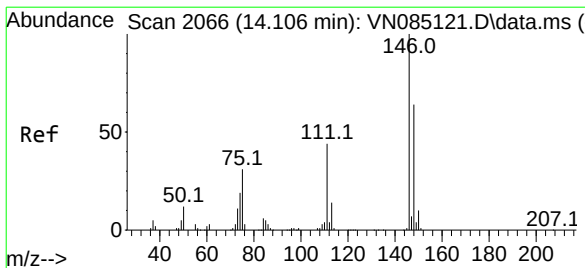
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#86
Hexachloroethane
Concen: 21.642 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:117 Resp: 34505
Ion Ratio Lower Upper
117 100
201 70.3 34.1 102.3





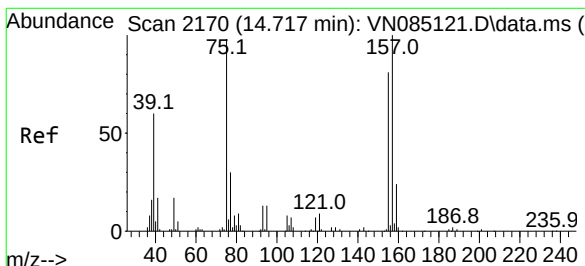
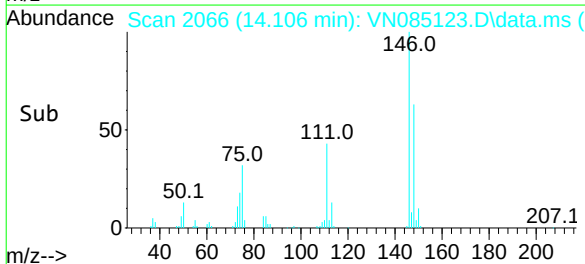
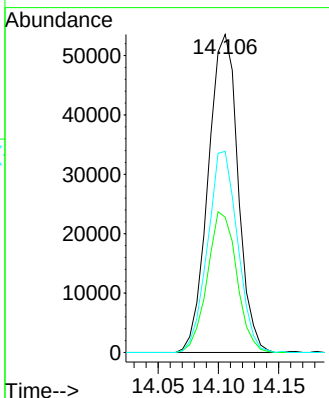
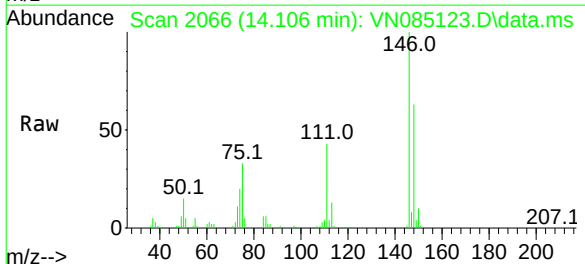
#87
1,2-Dichlorobenzene
Concen: 22.016 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.9	65.7
148	63.5	32.4	97.0

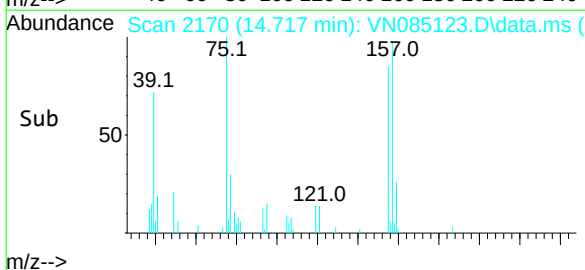
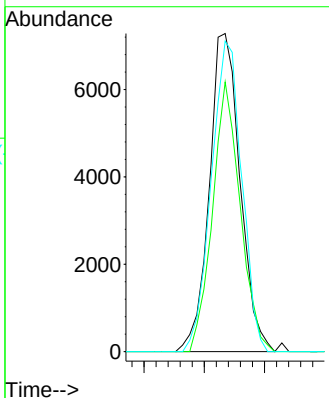
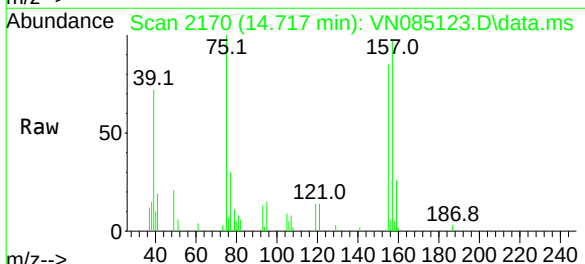
Manual Integrations
APPROVED

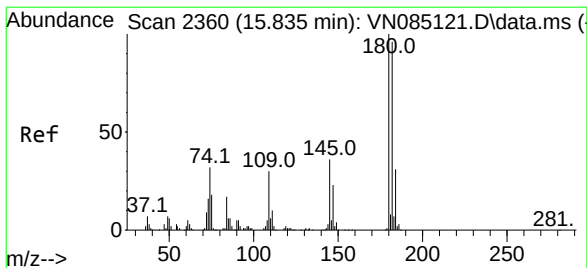
Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 22.003 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.2	62.1	93.1
157	96.4	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 23.026 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

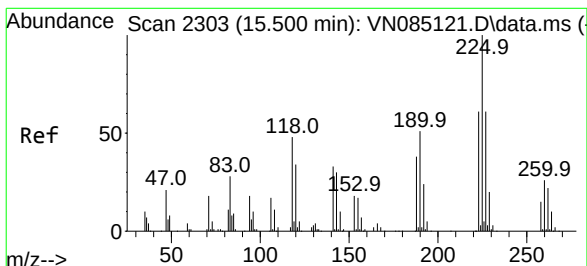
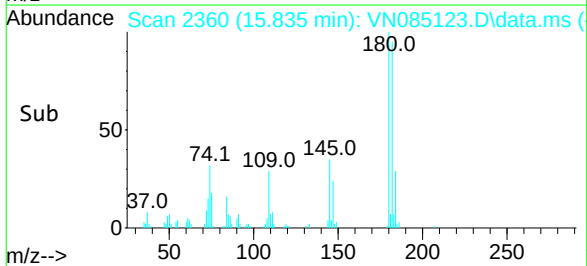
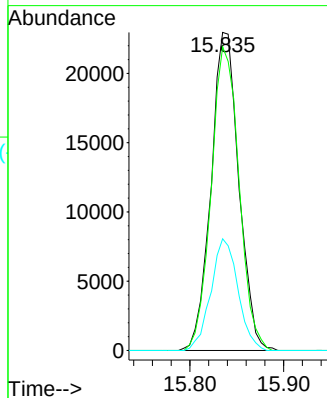
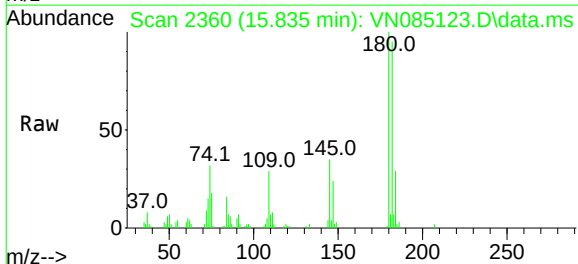
ICVVN120624

Tgt Ion:	180	Resp:	47265
Ion Ratio	Lower	Upper	
180	100		
182	95.7	74.0	111.0
145	34.2	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#90

Hexachlorobutadiene

Concen: 23.121 ug/l

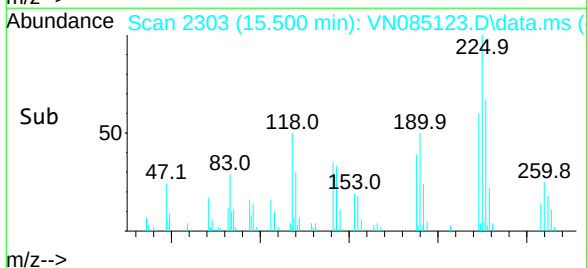
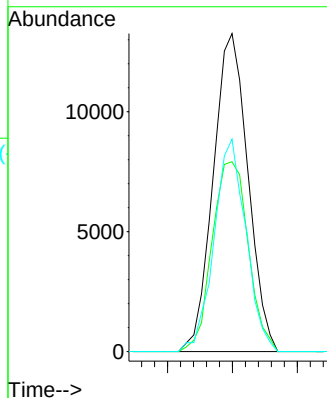
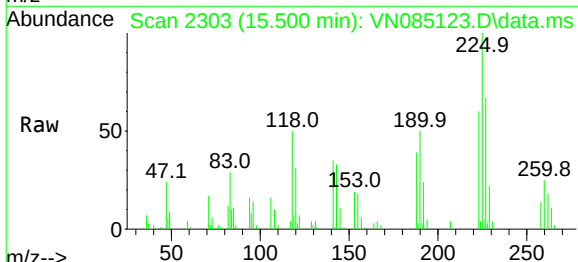
RT: 15.500 min Scan# 2303

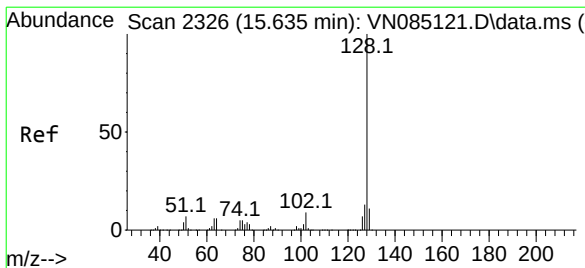
Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Tgt Ion:	225	Resp:	24662
Ion Ratio	Lower	Upper	
225	100		
223	62.1	0.0	121.8
227	61.4	0.0	126.8





#91

Naphthalene

Concen: 22.886 ug/l

RT: 15.641 min Scan# 23

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

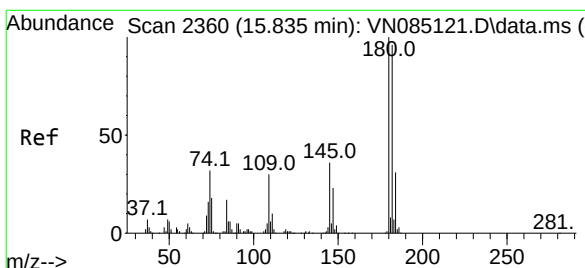
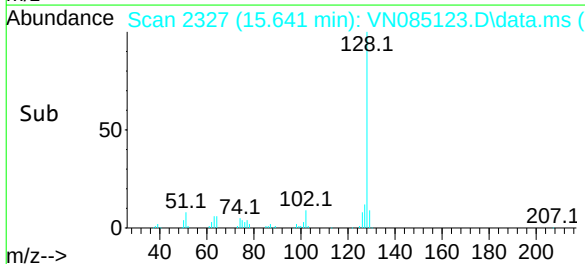
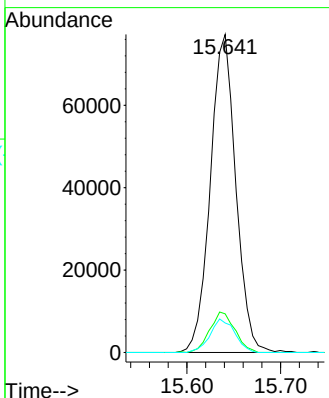
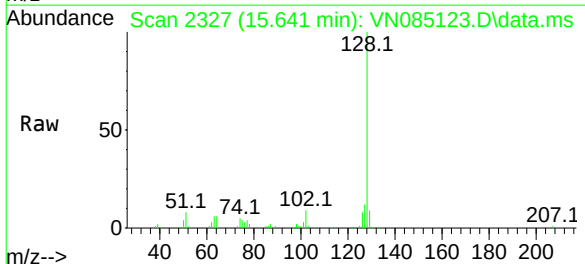
ClientSampleId :

ICVVN120624

Tgt Ion:	128	Resp:	145950
Ion	Ratio	Lower	Upper
128	100		
127	12.6	11.0	16.4
129	10.3	8.7	13.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/09/2024
Supervised By :Semsettin Yesilyurt 12/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 23.026 ug/l

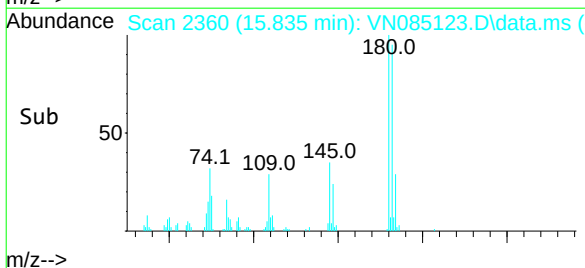
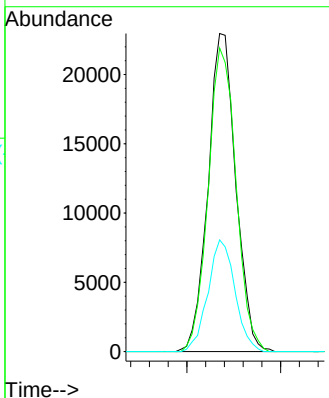
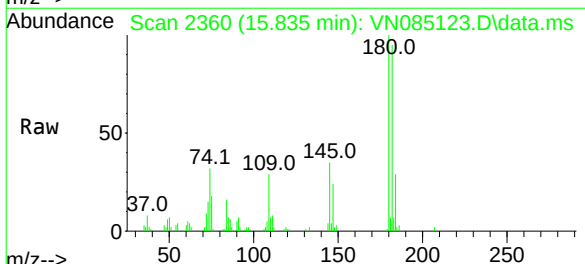
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Tgt Ion:	180	Resp:	47265
Ion	Ratio	Lower	Upper
180	100		
182	95.7	0.0	185.0
145	34.2	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085123.D
 Acq On : 06 Dec 2024 12:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

Quant Time: Dec 06 23:06:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	110	0.00
2 M	Dichlorodifluoromethane	2.400	2.657	-10.7	118	0.00
3 M	Chloromethane	2.124	2.368	-11.5	124	0.00
4 M	Vinyl Chloride	2.173	2.339	-7.6	120	0.00
5 M	Bromomethane	1.380	1.647	-19.3	136	0.00
6 M	Chloroethane	1.335	1.490	-11.6	126	0.00
7 M	Trichlorofluoromethane	3.557	3.860	-8.5	122	0.00
8 T	Diethyl Ether	1.127	1.259	-11.7	132	0.00
9	1,1,2-Trichlorotrifluoroeth	1.989	2.199	-10.6	125	0.00
10 M	1,1-Dichloroethene	1.827	2.002	-9.6	125	0.00
11	Methyl Iodide	2.534	2.773	-9.4	130	0.00
12	Methyl Acetate	2.155	2.358	-9.4	126	0.00
13 M	Acrolein	0.313	0.261	16.6	112	0.00
14 M	Acrylonitrile	0.895	0.979	-9.4	128	0.00
15 M	Acetone	0.243	0.255	-4.9	122	0.00
16 M	Carbon Disulfide	5.461	6.026	-10.3	123	0.00
17	Allyl chloride	2.614	2.861	-9.4	131	0.00
18 M	Methylene Chloride	2.073	2.170	-4.7	118	0.01
19 M	trans-1,2-Dichloroethene	1.899	2.076	-9.3	127	0.00
20 T	Diisopropyl ether	5.737	6.269	-9.3	121	0.00
21 M	1,1-Dichloroethane	3.541	3.862	-9.1	124	0.00
22 M	cis-1,2-Dichloroethene	2.183	2.482	-13.7	128	0.00
23 M	tert-Butyl Alcohol	0.321	0.359	-11.8	134	0.00
24 M	Methyl tert-Butyl Ether	5.708	6.351	-11.3	128	0.00
25 M	Chloroform	3.710	4.019	-8.3	121	0.00
26	Cyclohexane	2.916	3.288	-12.8	123	0.00
27 s	1,2-Dichloroethane-d4	2.380	2.340	1.7	107	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	114	0.00
29	1,1-Dichloropropene	0.484	0.529	-9.3	125	0.00
30 M	2-Butanone	0.222	0.238	-7.2	125	0.00
31	2,2-Dichloropropane	0.621	0.667	-7.4	126	0.00
32 M	1,1,1-Trichloroethane	0.655	0.697	-6.4	120	0.00
33 M	Carbon Tetrachloride	0.591	0.617	-4.4	120	0.00
34 M	Benzene	1.521	1.609	-5.8	123	0.00
35	Methacrylonitrile	0.250	0.281	-12.4	128	0.00
36 M	1,2-Dichloroethane	0.518	0.557	-7.5	126	0.00
37 M	Trichloroethene	0.362	0.390	-7.7	125	0.00
38	Methylcyclohexane	0.526	0.580	-10.3	138	0.00
39 M	1,2-Dichloropropane	0.368	0.384	-4.3	119	0.00
40	Dibromomethane	0.264	0.279	-5.7	120	0.00
41 M	Bromodichloromethane	0.565	0.596	-5.5	123	0.00
42 M	Vinyl Acetate	0.777	0.896	-15.3	137	0.00
43	Ethyl Acetate	0.442	0.504	-14.0	143	0.00
44	Isopropyl Acetate	0.768	0.836	-8.9	128	0.00
45 T	1,4-Dioxane	0.006	0.007	-16.7	124	0.00
46	Methyl methacrylate	0.352	0.387	-9.9	129	0.00
47	n-amyl Acetate	0.646	0.708	-9.6	131	0.00
48 M	t-1,3-Dichloropropene	0.554	0.587	-6.0	130	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085123.D
 Acq On : 06 Dec 2024 12:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

Quant Time: Dec 06 23:06:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.604	0.644	-6.6	125	0.00
50 M	1,1,2-Trichloroethane	0.356	0.382	-7.3	123	0.00
51	Ethyl methacrylate	0.542	0.599	-10.5	135	0.00
52	1,3-Dichloropropane	0.596	0.640	-7.4	125	0.00
53 M	Dibromochloromethane	0.434	0.449	-3.5	121	0.00
54 M	1,2-Dibromoethane	0.359	0.384	-7.0	126	0.00
55 M	2-Chloroethyl vinyl ether	0.252	0.195	22.6	90	0.00
56 M	Bromoform	0.291	0.299	-2.7	125	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00
58 M	4-Methyl-2-Pentanone	0.490	0.547	-11.6	122	0.00
59 M	2-Hexanone	0.371	0.418	-12.7	123	0.00
60 S	4-Bromofluorobenzene	0.496	0.512	-3.2	114	0.00
61 M	Tetrachloroethene	0.363	0.405	-11.6	125	0.00
62 M	Toluene	1.750	1.922	-9.8	124	0.00
63 S	Toluene-d8	1.407	1.422	-1.1	109	0.00
64 M	Chlorobenzene	1.080	1.194	-10.6	125	0.00
65	1,1,1,2-Tetrachloroethane	0.403	0.438	-8.7	126	0.00
66 M	Ethyl Benzene	1.857	2.070	-11.5	131	0.00
67 M	m/p-Xylenes	0.714	0.819	-14.7	127	0.00
68 M	o-Xylene	0.671	0.754	-12.4	129	0.00
69 M	Styrene	1.138	1.298	-14.1	131	0.00
70	Isopropylbenzene	1.730	1.949	-12.7	130	0.00
71 M	1,1,2,2-Tetrachloroethane	0.526	0.585	-11.2	121	0.00
72	1,2,3-Trichloropropane	0.520	0.610	-17.3	126	0.00
73	Bromobenzene	0.433	0.482	-11.3	127	0.00
74	n-propylbenzene	2.079	2.336	-12.4	128	0.00
75	2-Chlorotoluene	1.286	1.443	-12.2	125	0.00
76	1,3,5-Trimethylbenzene	1.482	1.693	-14.2	130	0.00
77	t-1,4-Dichloro-2-butene	0.189	0.203	-7.4	126	0.00
78	4-Chlorotoluene	1.305	1.465	-12.3	128	0.00
79	tert-butylbenzene	1.217	1.368	-12.4	129	0.00
80	1,2,4-Trimethylbenzene	1.464	1.683	-15.0	130	0.00
81	sec-Butylbenzene	1.729	1.982	-14.6	131	0.00
82	p-Isopropyltoluene	1.434	1.627	-13.5	131	0.00
83 M	1,3-Dichlorobenzene	0.795	0.865	-8.8	125	0.00
84 M	1,4-Dichlorobenzene	0.775	0.877	-13.2	131	0.00
85	n-Butylbenzene	1.203	1.330	-10.6	135	0.00
86 T	Hexachloroethane	0.285	0.309	-8.4	124	0.00
87 M	1,2-Dichlorobenzene	0.750	0.826	-10.1	126	0.00
88	1,2-Dibromo-3-Chloropropane	0.105	0.116	-10.5	124	0.00
89	1,2,4-Trichlorobenzene	0.367	0.423	-15.3	137	0.00
90	Hexachlorobutadiene	0.191	0.221	-15.7	133	0.00
91 M	Naphthalene	1.142	1.306	-14.4	149	0.00
92	1,2,3-Trichlorobenzene	0.367	0.423	-15.3	137	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085123.D
 Acq On : 06 Dec 2024 12:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN120624

Quant Time: Dec 06 23:06:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	110	0.00
2 M	Dichlorodifluoromethane	20.000	22.140	-10.7	118	0.00
3 M	Chloromethane	20.000	22.297	-11.5	124	0.00
4 M	Vinyl Chloride	20.000	21.532	-7.7	120	0.00
5 M	Bromomethane	20.000	23.874	-19.4	136	0.00
6 M	Chloroethane	20.000	22.326	-11.6	126	0.00
7 M	Trichlorofluoromethane	20.000	21.704	-8.5	122	0.00
8 T	Diethyl Ether	20.000	22.346	-11.7	132	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	22.109	-10.5	125	0.00
10 M	1,1-Dichloroethene	20.000	21.919	-9.6	125	0.00
11	Methyl Iodide	20.000	21.887	-9.4	130	0.00
12	Methyl Acetate	20.000	21.883	-9.4	126	0.00
13 M	Acrolein	100.000	83.185	16.8	112	0.00
14 M	Acrylonitrile	100.000	109.372	-9.4	128	0.00
15 M	Acetone	100.000	104.948	-4.9	122	0.00
16 M	Carbon Disulfide	20.000	22.068	-10.3	123	0.00
17	Allyl chloride	20.000	21.888	-9.4	131	0.00
18 M	Methylene Chloride	20.000	20.936	-4.7	118	0.01
19 M	trans-1,2-Dichloroethene	20.000	21.862	-9.3	127	0.00
20 T	Diisopropyl ether	20.000	21.853	-9.3	121	0.00
21 M	1,1-Dichloroethane	20.000	21.811	-9.1	124	0.00
22 M	cis-1,2-Dichloroethene	20.000	22.742	-13.7	128	0.00
23 M	tert-Butyl Alcohol	100.000	111.884	-11.9	134	0.00
24 M	Methyl tert-Butyl Ether	20.000	22.254	-11.3	128	0.00
25 M	Chloroform	20.000	21.669	-8.3	121	0.00
26	Cyclohexane	20.000	22.553	-12.8	123	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.493	1.7	107	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	114	0.00
29	1,1-Dichloropropene	20.000	21.858	-9.3	125	0.00
30 M	2-Butanone	100.000	107.048	-7.0	125	0.00
31	2,2-Dichloropropane	20.000	21.490	-7.4	126	0.00
32 M	1,1,1-Trichloroethane	20.000	21.275	-6.4	120	0.00
33 M	Carbon Tetrachloride	20.000	20.855	-4.3	120	0.00
34 M	Benzene	20.000	21.162	-5.8	123	0.00
35	Methacrylonitrile	20.000	22.464	-12.3	128	0.00
36 M	1,2-Dichloroethane	20.000	21.505	-7.5	126	0.00
37 M	Trichloroethene	20.000	21.558	-7.8	125	0.00
38	Methylcyclohexane	20.000	22.020	-10.1	138	0.00
39 M	1,2-Dichloropropane	20.000	20.867	-4.3	119	0.00
40	Dibromomethane	20.000	21.127	-5.6	120	0.00
41 M	Bromodichloromethane	20.000	21.117	-5.6	123	0.00
42 M	Vinyl Acetate	100.000	115.256	-15.3	137	0.00
43	Ethyl Acetate	20.000	22.807	-14.0	143	0.00
44	Isopropyl Acetate	20.000	21.770	-8.8	128	0.00
45 T	1,4-Dioxane	400.000	437.438	-9.4	124	0.00
46	Methyl methacrylate	20.000	21.989	-9.9	129	0.00
47	n-amyl Acetate	20.000	21.920	-9.6	131	0.00
48 M	t-1,3-Dichloropropene	20.000	21.161	-5.8	130	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085123.D
 Acq On : 06 Dec 2024 12:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

Quant Time: Dec 06 23:06:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	21.333	-6.7	125	0.00
50 M	1,1,2-Trichloroethane	20.000	21.441	-7.2	123	0.00
51	Ethyl methacrylate	20.000	22.113	-10.6	135	0.00
52	1,3-Dichloropropane	20.000	21.486	-7.4	125	0.00
53 M	Dibromochloromethane	20.000	20.701	-3.5	121	0.00
54 M	1,2-Dibromoethane	20.000	21.396	-7.0	126	0.00
55 M	2-Chloroethyl vinyl ether	100.000	77.670	22.3	90	0.00
56 M	Bromoform	20.000	20.588	-2.9	125	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	110	0.00
58 M	4-Methyl-2-Pentanone	100.000	111.787	-11.8	122	0.00
59 M	2-Hexanone	100.000	112.607	-12.6	123	0.00
60 S	4-Bromofluorobenzene	30.000	30.966	-3.2	114	0.00
61 M	Tetrachloroethene	20.000	22.294	-11.5	125	0.00
62 M	Toluene	20.000	21.975	-9.9	124	0.00
63 S	Toluene-d8	30.000	30.323	-1.1	109	0.00
64 M	Chlorobenzene	20.000	22.112	-10.6	125	0.00
65	1,1,1,2-Tetrachloroethane	20.000	21.725	-8.6	126	0.00
66 M	Ethyl Benzene	20.000	22.300	-11.5	131	0.00
67 M	m/p-Xylenes	40.000	45.872	-14.7	127	0.00
68 M	o-Xylene	20.000	22.492	-12.5	129	0.00
69 M	Styrene	20.000	22.822	-14.1	131	0.00
70	Isopropylbenzene	20.000	22.540	-12.7	130	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	22.210	-11.1	121	0.00
72	1,2,3-Trichloropropane	20.000	23.445	-17.2	126	0.00
73	Bromobenzene	20.000	22.241	-11.2	127	0.00
74	n-propylbenzene	20.000	22.470	-12.3	128	0.00
75	2-Chlorotoluene	20.000	22.446	-12.2	125	0.00
76	1,3,5-Trimethylbenzene	20.000	22.843	-14.2	130	0.00
77	t-1,4-Dichloro-2-butene	20.000	21.535	-7.7	126	0.00
78	4-Chlorotoluene	20.000	22.456	-12.3	128	0.00
79	tert-butylbenzene	20.000	22.471	-12.4	129	0.00
80	1,2,4-Trimethylbenzene	20.000	22.992	-15.0	130	0.00
81	sec-Butylbenzene	20.000	22.925	-14.6	131	0.00
82	p-Isopropyltoluene	20.000	22.702	-13.5	131	0.00
83 M	1,3-Dichlorobenzene	20.000	21.763	-8.8	125	0.00
84 M	1,4-Dichlorobenzene	20.000	22.651	-13.3	131	0.00
85	n-Butylbenzene	20.000	22.118	-10.6	135	0.00
86 T	Hexachloroethane	20.000	21.642	-8.2	124	0.00
87 M	1,2-Dichlorobenzene	20.000	22.016	-10.1	126	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	22.003	-10.0	124	0.00
89	1,2,4-Trichlorobenzene	20.000	23.026	-15.1	137	0.00
90	Hexachlorobutadiene	20.000	23.121	-15.6	133	0.00
91 M	Naphthalene	20.000	22.886	-14.4	149	0.00
92	1,2,3-Trichlorobenzene	20.000	23.026	-15.1	137	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date/Time: 12/16/2024 09:42

Lab File ID: VN085207.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.400	2.526		5.25	
Chloromethane	2.124	2.227		4.85	
Vinyl Chloride	2.173	2.251	0.1	3.59	
Bromomethane	1.380	1.402	0.1	1.59	
Chloroethane	1.335	1.437		7.64	
Trichlorofluoromethane	3.557	3.724		4.7	
1,1,2-Trichlorotrifluoroethane	1.989	2.005		0.8	
1,1-Dichloroethene	1.827	1.847	0.1	1.1	
Acrolein	0.313	0.235		-24.92	
Acrylonitrile	0.895	0.853		-4.69	
Acetone	0.243	0.258		6.17	
Carbon Disulfide	5.461	5.505		0.81	
Methyl tert-Butyl Ether	5.708	5.845		2.4	
Methyl Acetate	2.155	2.103		-2.41	
Methylene Chloride	2.073	2.023		-2.41	
trans-1,2-Dichloroethene	1.899	1.907		0.42	
1,1-Dichloroethane	3.541	3.578	0.2	1.04	
Cyclohexane	0.552	0.526		-4.71	
2-Butanone	0.222	0.210		-5.41	
Carbon Tetrachloride	0.591	0.558	0.1	-5.58	
2,2-Dichloropropane	0.621	0.615		-0.97	
cis-1,2-Dichloroethene	2.183	2.239		2.57	
Chloroform	3.710	3.808	0.2	2.64	
1,1,1-Trichloroethane	0.655	0.631	0.1	-3.66	
Methylcyclohexane	0.526	0.500		-4.94	
1,1-Dichloropropene	0.484	0.466		-3.72	
Benzene	1.521	1.463	0.5	-3.81	
1,2-Dichloroethane	0.518	0.501	0.1	-3.28	
Trichloroethene	0.362	0.361	0.3	-0.28	
1,2-Dichloropropane	0.368	0.353		-4.08	
Dibromomethane	0.264	0.255		-3.41	
Bromodichloromethane	0.565	0.546	0.2	-3.36	
4-Methyl-2-Pentanone	0.490	0.448		-8.57	
Toluene	1.750	1.703	0.4	-2.69	
t-1,3-Dichloropropene	0.554	0.532	0.1	-3.97	
cis-1,3-Dichloropropene	0.604	0.590	0.2	-2.32	
1,1,2-Trichloroethane	0.356	0.344	0.1	-3.37	
1,3-Dichloropropane	0.596	0.572		-4.03	

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date/Time: 12/16/2024 09:42

Lab File ID: VN085207.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.371	0.350		-5.66	
Dibromochloromethane	0.434	0.412	0.1	-5.07	
1,2-Dibromoethane	0.359	0.343		-4.46	
Tetrachloroethene	0.363	0.361	0.2	-0.55	
Chlorobenzene	1.080	1.049	0.5	-2.87	
1,1,1,2-Tetrachloroethane	0.403	0.391		-2.98	
Hexachloroethane	0.285	0.275		-3.51	
Ethyl Benzene	1.857	1.831	0.1	-1.4	
m/p-Xylenes	0.714	0.703	0.3	-1.54	
o-Xylene	0.671	0.678	0.3	1.04	
Styrene	1.138	1.138	0.3	0	
Bromoform	0.291	0.271	0.1	-6.87	
Isopropylbenzene	1.730	1.731		0.06	
1,1,2,2-Tetrachloroethane	0.526	0.495	0.3	-5.89	
1,2,3-Trichloropropane	0.520	0.399		-23.27	
Bromobenzene	0.433	0.425		-1.85	
n-propylbenzene	2.079	2.023		-2.69	
2-Chlorotoluene	1.286	1.262		-1.87	
1,3,5-Trimethylbenzene	1.482	1.477		-0.34	
4-Chlorotoluene	1.305	1.276		-2.22	
tert-butylbenzene	1.217	1.210		-0.57	
1,2,4-Trimethylbenzene	1.464	1.478		0.96	
sec-Butylbenzene	1.729	1.683		-2.66	
p-Isopropyltoluene	1.434	1.422		-0.84	
1,3-Dichlorobenzene	0.795	0.761	0.2	-4.28	
1,4-Dichlorobenzene	0.775	0.751	0.2	-3.1	
n-Butylbenzene	1.203	1.164		-3.24	
1,2-Dichlorobenzene	0.750	0.725	0.2	-3.33	
1,2-Dibromo-3-Chloropropane	0.105	0.090		-14.29	
1,2,4-Trichlorobenzene	0.367	0.353	0.2	-3.82	
Hexachlorobutadiene	0.191	0.191		0	
Naphthalene	1.142	1.062		-7.01	
1,2,3-Trichlorobenzene	0.367	0.353		-3.82	
1,2-Dichloroethane-d4	2.380	2.398	0.01	0.76	
Toluene-d8	1.407	1.384	0.01	-1.63	
4-Bromofluorobenzene	0.496	0.487	0.2	-1.82	
Methyl Iodide	2.534	2.157		-14.88	
Methyl methacrylate	0.352	0.327		-7.1	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33412	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	185962	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	170233	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80133	30.226	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.767%			
60) 4-Bromofluorobenzene	12.847	95	82875	29.423	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.067%			
63) Toluene-d8	10.565	98	235545	29.497	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.333%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	56261	21.047	ug/l	99
3) Chloromethane	2.359	50	49600	20.963	ug/l	97
4) Vinyl Chloride	2.512	62	50136	20.717	ug/l	97
5) Bromomethane	2.965	94	31223	20.321	ug/l	96
6) Chloroethane	3.124	64	32014	21.532	ug/l	92
7) Trichlorofluoromethane	3.506	101	82951	20.940	ug/l	100
8) Diethyl Ether	3.959	74	25301	20.165	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	44657	20.159	ug/l	99
10) 1,1-Dichloroethene	4.342	96	41142	20.219	ug/l	99
11) Methyl Iodide	4.595	142	48050	17.027	ug/l	96
12) Methyl Acetate	5.018	43	46842	19.513	ug/l	98
13) Acrolein	4.177	56	26169	75.017	ug/l	96
14) Acrylonitrile	5.712	53	94996	95.305	ug/l	98
15) Acetone	4.424	58	28736	106.386	ug/l	96
16) Carbon Disulfide	4.706	76	122618	20.161	ug/l	99
17) Allyl chloride	5.024	41	59479	20.428	ug/l	91
18) Methylene Chloride	5.277	84	45057	19.515	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	42471	20.081	ug/l	92
20) Diisopropyl ether	6.665	45	131789	20.625	ug/l	96
21) 1,1-Dichloroethane	6.565	63	79692	20.207	ug/l #	96
22) cis-1,2-Dichloroethene	7.477	96	49862	20.511	ug/l	99
23) tert-Butyl Alcohol	5.518	59	32619	91.223	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	130198	20.480	ug/l #	75
25) Chloroform	7.959	83	84820	20.530	ug/l	93
26) Cyclohexane	8.253	56	65168	20.069	ug/l #	95
29) 1,1-Dichloropropene	8.365	75	57776	19.254	ug/l	99
30) 2-Butanone	7.477	43	130116	94.489	ug/l	98
31) 2,2-Dichloropropane	7.488	77	76289	19.826	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	78244	19.264	ug/l	98
33) Carbon Tetrachloride	8.359	117	69225	18.888	ug/l	99
34) Benzene	8.600	78	181426	19.246	ug/l #	94
35) Methacrylonitrile	7.771	41	28129	18.152	ug/l	96
36) 1,2-Dichloroethane	8.665	62	62153	19.368	ug/l	99
37) Trichloroethene	9.347	130	44782	19.949	ug/l	89
38) Methylcyclohexane	9.600	83	61994	19.000	ug/l	97
39) 1,2-Dichloropropane	9.618	63	43708	19.143	ug/l	98
40) Dibromomethane	9.706	93	31562	19.271	ug/l	98
41) Bromodichloromethane	9.882	83	67723	19.343	ug/l	97
42) Vinyl Acetate	6.600	43	471771	97.906	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	49499	18.066	ug/l	96
44) Isopropyl Acetate	8.682	43	89011	18.694	ug/l	100
45) 1,4-Dioxane	9.688	88	15602	392.939	ug/l	95
46) Methyl methacrylate	9.677	41	40601	18.632	ug/l	97
47) n-amyl Acetate	12.494	43	73556	18.361	ug/l	96
48) t-1,3-Dichloropropene	10.829	75	65995	19.202	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	73124	19.544	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	42618	19.311	ug/l	96
51) Ethyl methacrylate	10.871	69	62332	18.569	ug/l	96
52) 1,3-Dichloropropane	11.159	76	70887	19.192	ug/l	99
53) Dibromochloromethane	11.359	129	51019	18.970	ug/l	97
54) 1,2-Dibromoethane	11.465	107	42506	19.116	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	122170	78.348	ug/l	99
56) Bromoform	12.570	173	33630	18.650	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	254378	91.560	ug/l	97
59) 2-Hexanone	11.194	43	198443	94.267	ug/l	98
61) Tetrachloroethene	11.100	164	40993	19.885	ug/l	89
62) Toluene	10.624	91	193265	19.467	ug/l	99
64) Chlorobenzene	11.888	112	119028	19.419	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	44343	19.379	ug/l	99
66) Ethyl Benzene	11.959	91	207827	19.728	ug/l	97
67) m/p-Xylenes	12.071	106	159560	39.379	ug/l	96
68) o-Xylene	12.394	106	76900	20.208	ug/l	97
69) Styrene	12.406	104	129131	19.998	ug/l	100
70) Isopropylbenzene	12.694	105	196429	20.013	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	56150	18.796	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	45287m	15.346	ug/l	
73) Bromobenzene	12.976	156	48280	19.638	ug/l	98
74) n-propylbenzene	13.029	91	229571	19.456	ug/l	99
75) 2-Chlorotoluene	13.123	91	143192	19.627	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	167597	19.931	ug/l	99
77) t-1,4-Dichloro-2-butene	12.729	75	20254	18.888	ug/l	90
78) 4-Chlorotoluene	13.217	91	144822	19.557	ug/l	99
79) tert-butylbenzene	13.435	119	137376	19.890	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	167722	20.193	ug/l	98
81) sec-Butylbenzene	13.612	105	191002	19.466	ug/l	98
82) p-Isopropyltoluene	13.723	119	161402	19.841	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	86373	19.150	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	85216	19.386	ug/l	99
85) n-Butylbenzene	14.053	91	132097	19.359	ug/l	98
86) Hexachloroethane	14.335	117	31250	19.297	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	82331	19.338	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10161	17.026	ug/l	95
89) 1,2,4-Trichlorobenzene	15.835	180	40011	19.190	ug/l	96
90) Hexachlorobutadiene	15.494	225	21664	19.995	ug/l	99
91) Naphthalene	15.635	128	120498	18.602	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	40011	19.190	ug/l	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
Data File : VN085207.D
Acq On : 16 Dec 2024 09:42
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

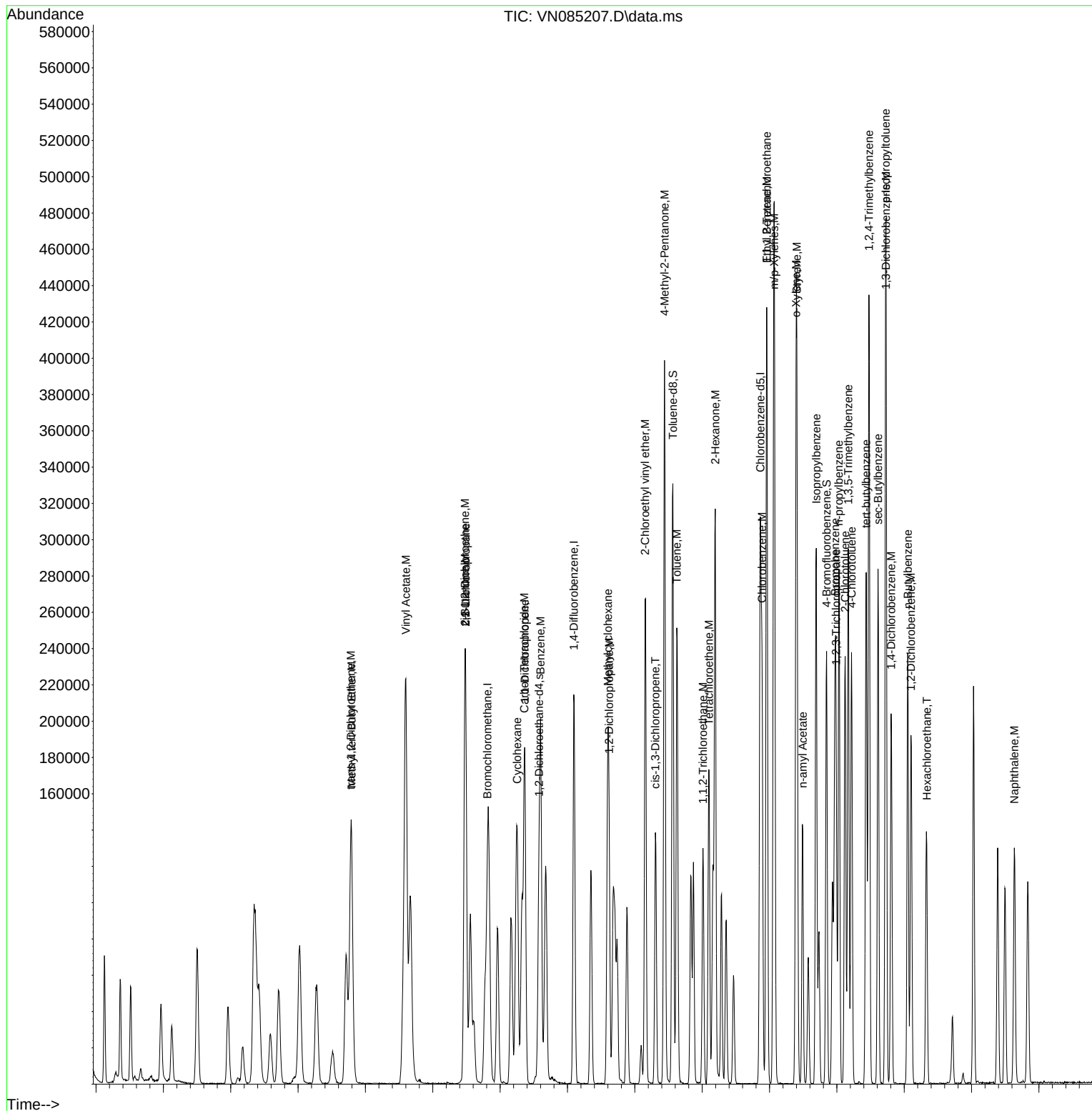
Manual Integrations

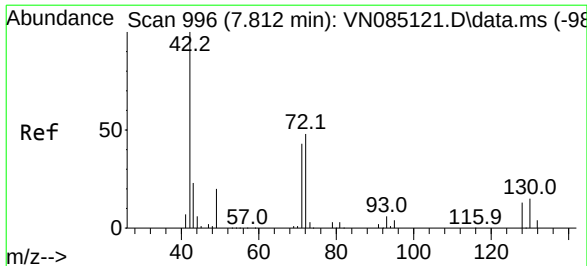
APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024

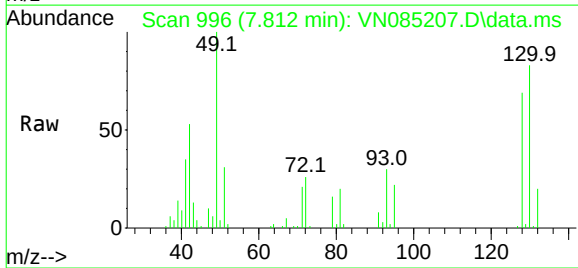
Quant Time: Dec 16 12:21:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

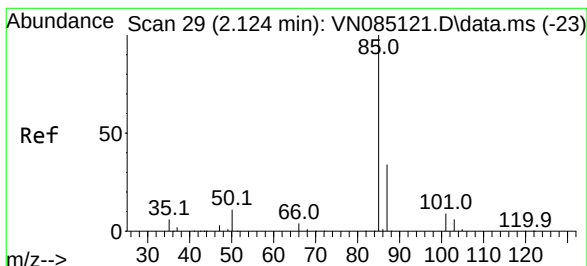
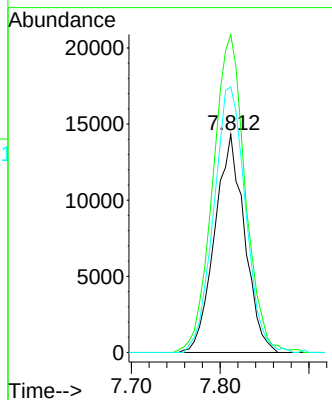
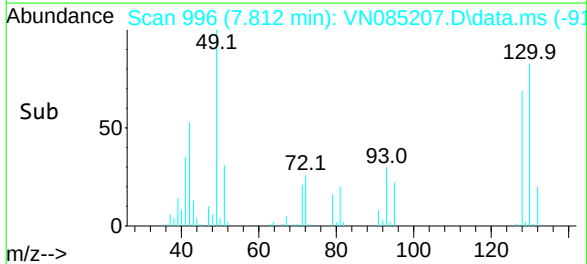
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 128 Resp: 33412
Ion Ratio Lower Upper
128 100
49 157.6 0.0 394.5
130 129.2 0.0 316.5

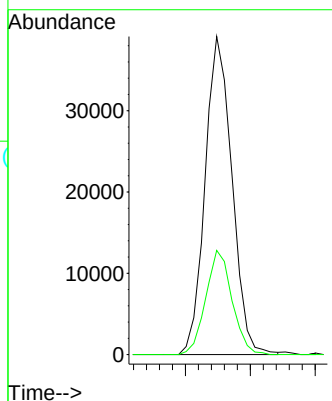
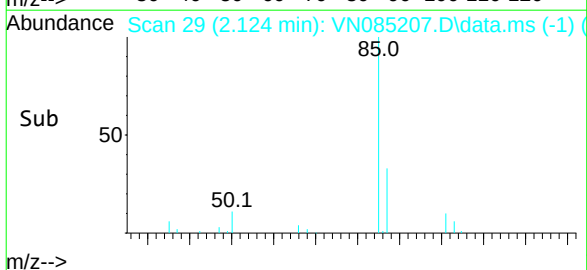
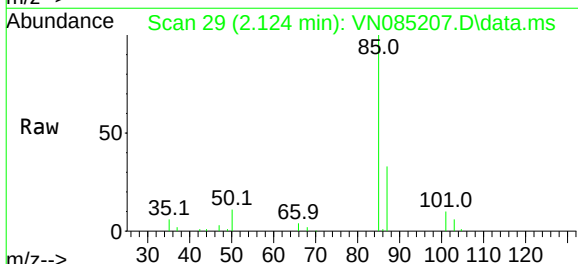
Manual Integrations
APPROVED

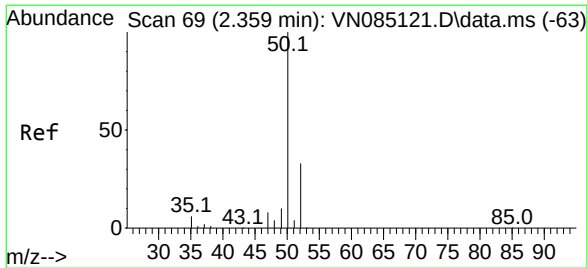
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024



#2
Dichlorodifluoromethane
Concen: 21.047 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 85 Resp: 56261
Ion Ratio Lower Upper
85 100
87 32.8 16.8 50.3





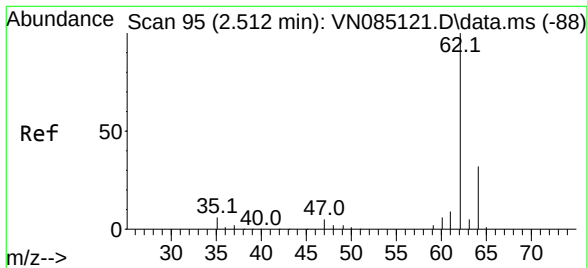
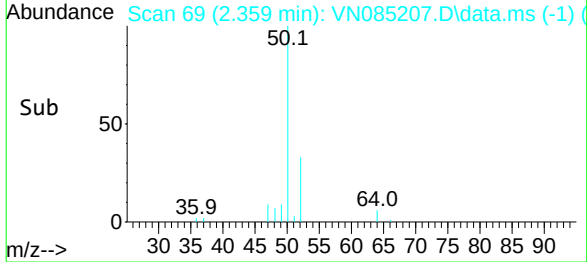
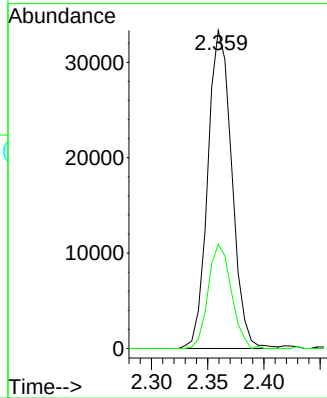
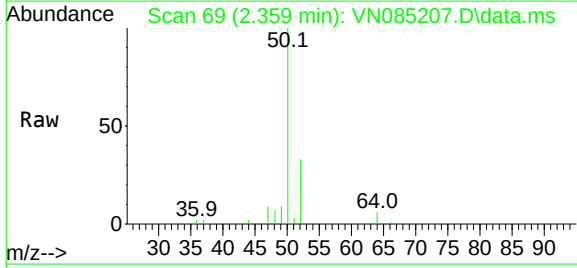
#3
Chloromethane
Concen: 20.963 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 50 Resp: 49600
Ion Ratio Lower Upper
50 100
52 32.8 25.0 37.4

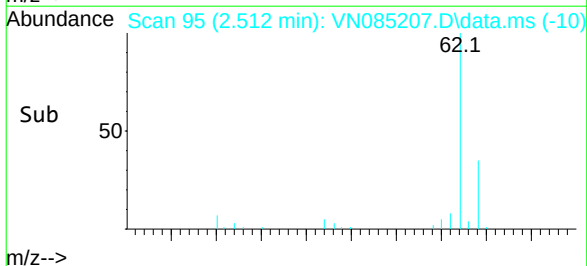
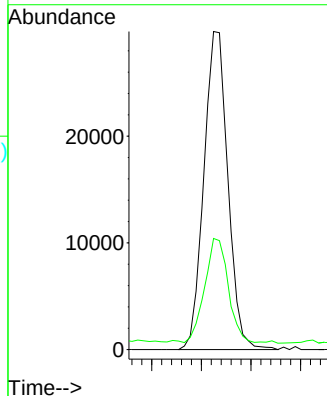
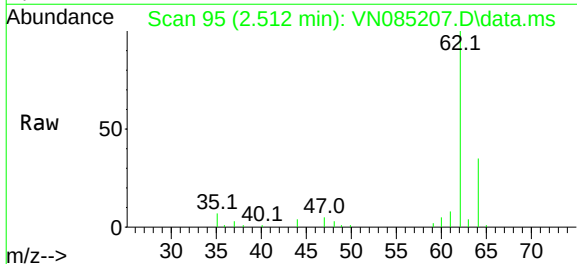
Manual Integrations
APPROVED

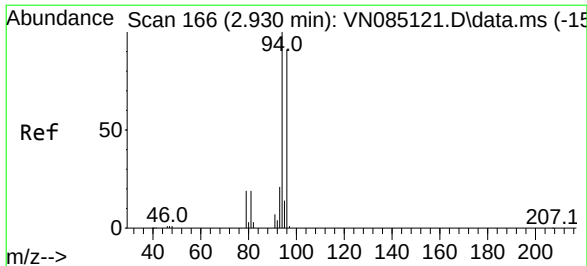
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#4
Vinyl Chloride
Concen: 20.717 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

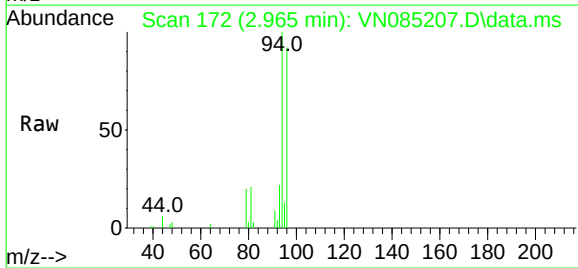
Tgt Ion: 62 Resp: 50136
Ion Ratio Lower Upper
62 100
64 32.9 24.9 37.3





#5
Bromomethane
Concen: 20.321 ug/l
RT: 2.965 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

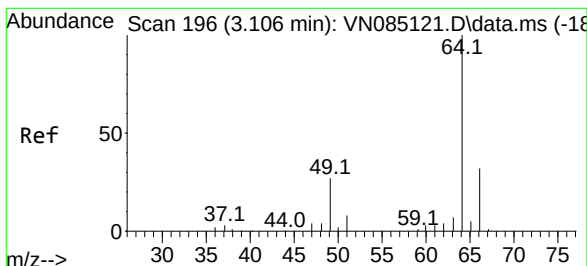
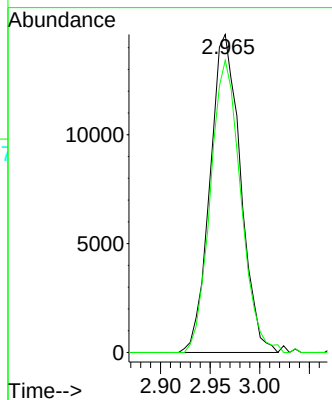
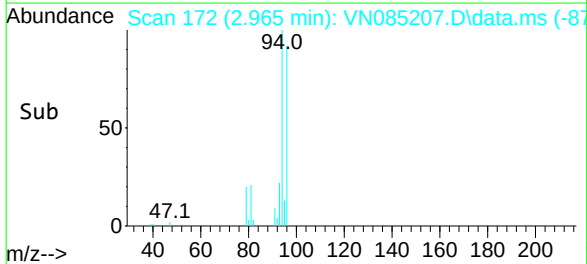
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 94 Resp: 31223
Ion Ratio Lower Upper
94 100
96 91.9 76.2 114.4

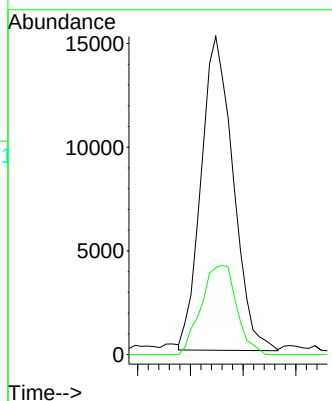
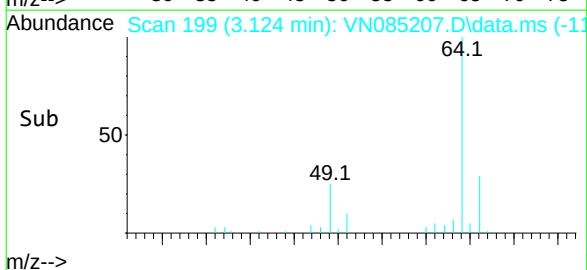
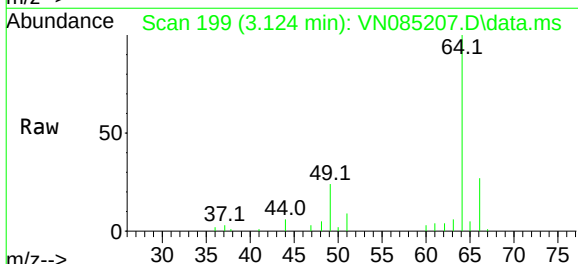
Manual Integrations
APPROVED

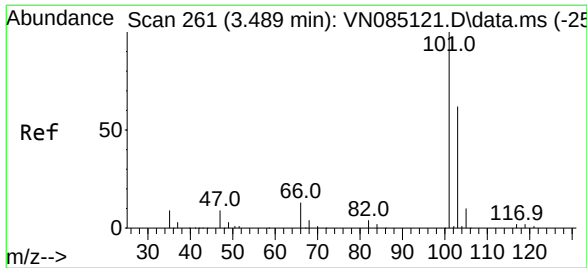
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#6
Chloroethane
Concen: 21.532 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

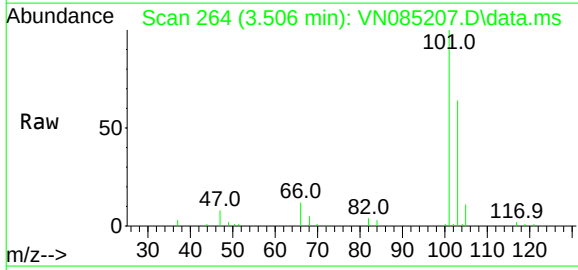
Tgt Ion: 64 Resp: 32014
Ion Ratio Lower Upper
64 100
66 27.7 25.5 38.3





#7
Trichlorofluoromethane
Concen: 20.940 ug/l
RT: 3.506 min Scan# 261
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

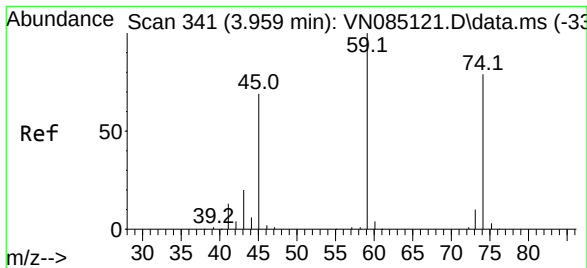
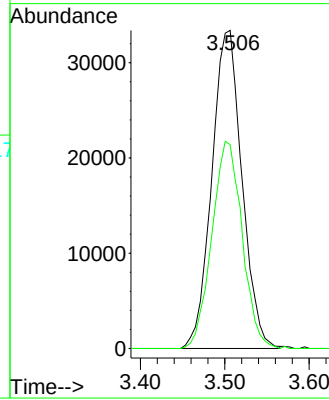
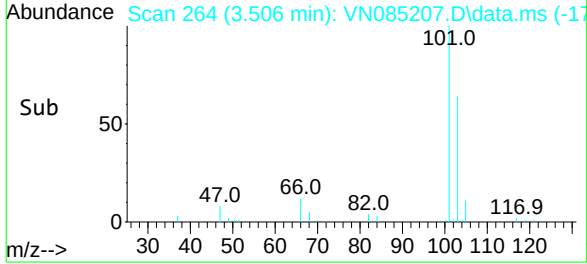
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



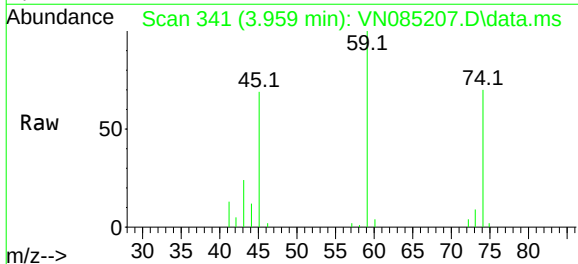
Tgt Ion: 101 Resp: 82951
Ion Ratio Lower Upper
101 100
103 64.1 51.3 76.9

Manual Integrations
APPROVED

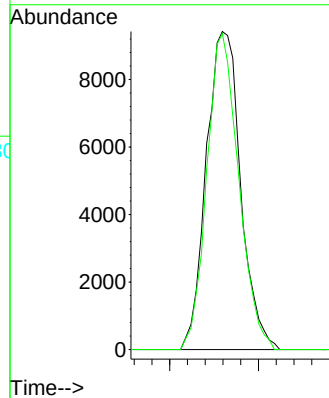
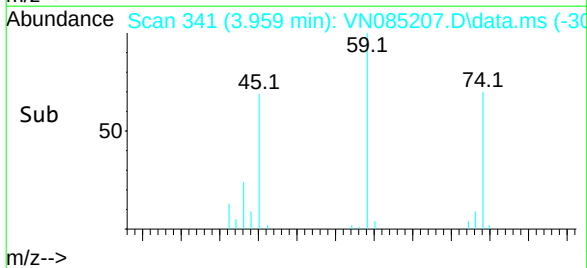
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024

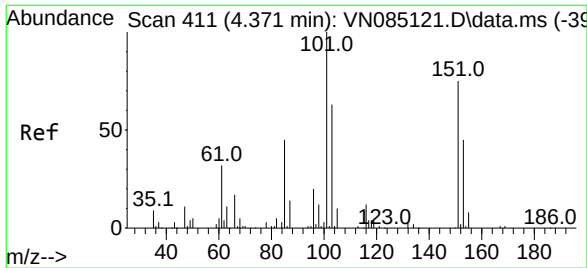


#8
Diethyl Ether
Concen: 20.165 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42



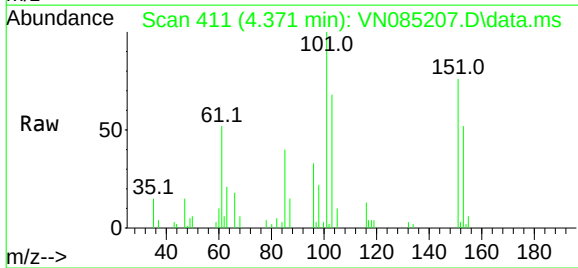
Tgt Ion: 74 Resp: 25301
Ion Ratio Lower Upper
74 100
45 92.2 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.159 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

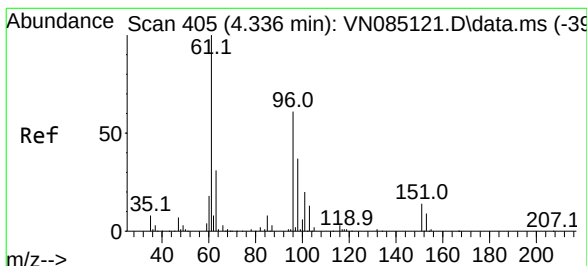
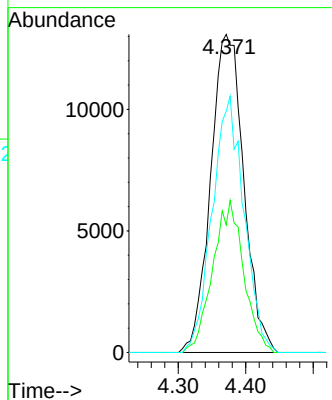
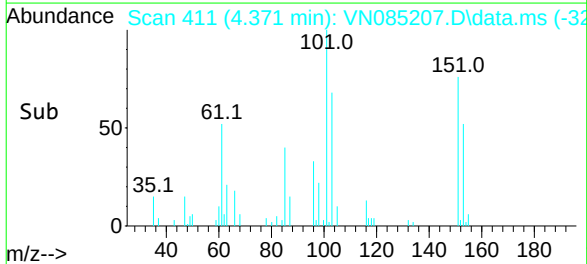
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



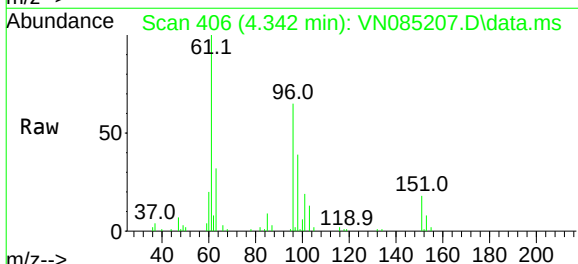
Tgt Ion: 101 Resp: 44657
Ion Ratio Lower Upper
101 100
85 44.5 0.0 88.6
151 77.2 0.0 155.8

Manual Integrations
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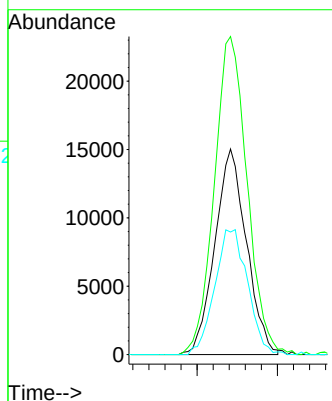
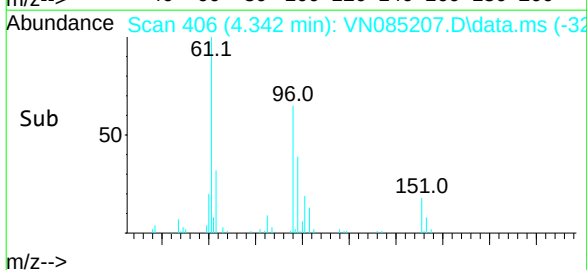
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024

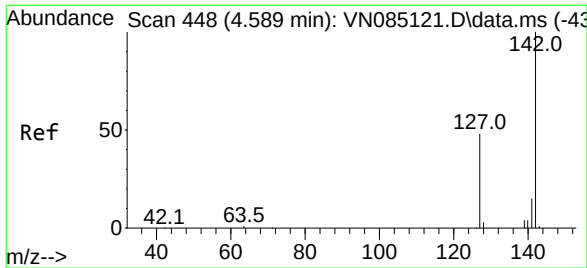


#10
1,1-Dichloroethene
Concen: 20.219 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42



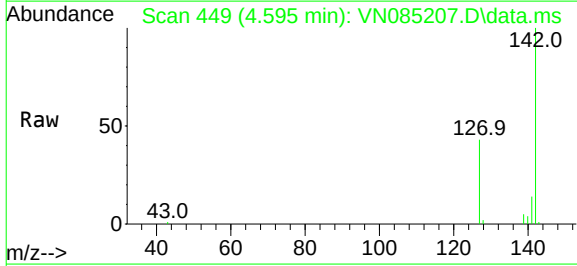
Tgt Ion: 96 Resp: 41142
Ion Ratio Lower Upper
96 100
61 154.7 123.0 184.4
98 59.6 49.1 73.7





#11
Methyl Iodide
Concen: 17.027 ug/l
RT: 4.595 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

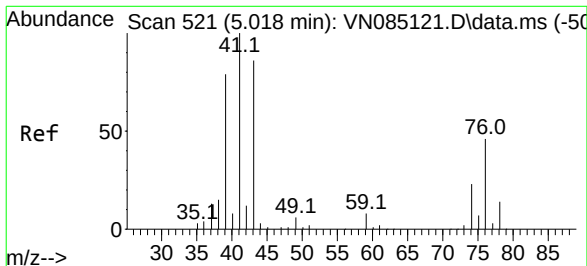
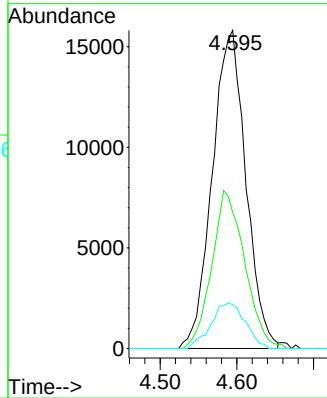
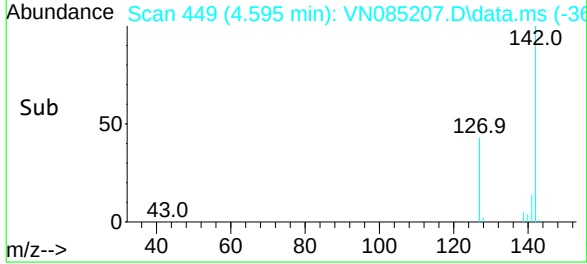
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 142 Resp: 48050
Ion Ratio Lower Upper
142 100
127 42.6 22.5 67.5
141 13.9 8.3 24.9

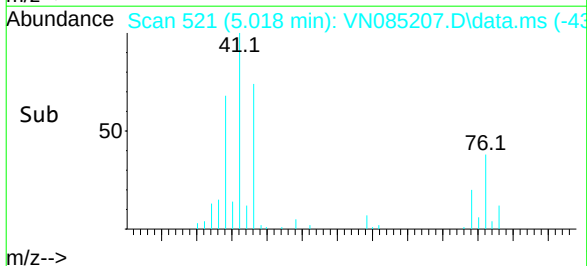
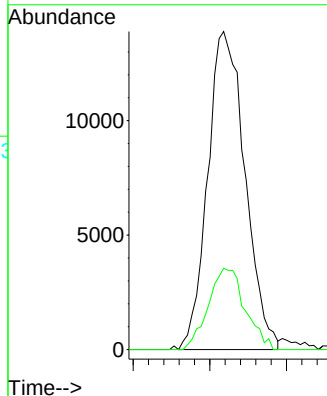
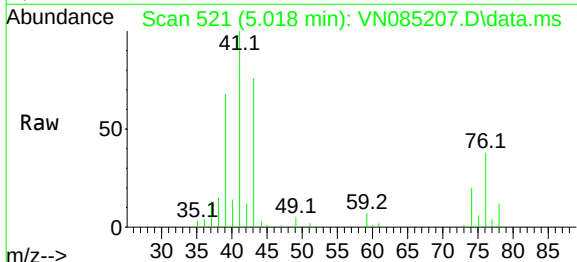
Manual Integrations
APPROVED

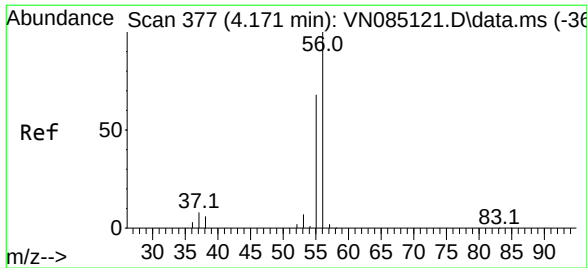
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#12
Methyl Acetate
Concen: 19.513 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

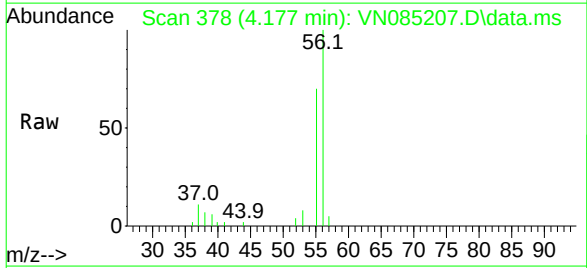
Tgt Ion: 43 Resp: 46842
Ion Ratio Lower Upper
43 100
74 25.9 19.8 29.6





#13
Acrolein
Concen: 75.017 ug/l
RT: 4.177 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

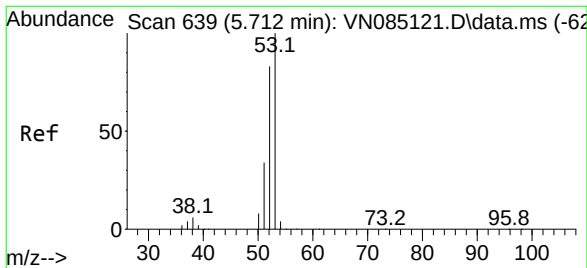
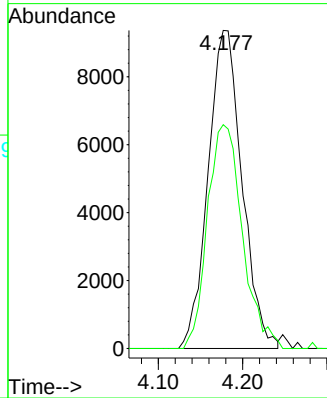
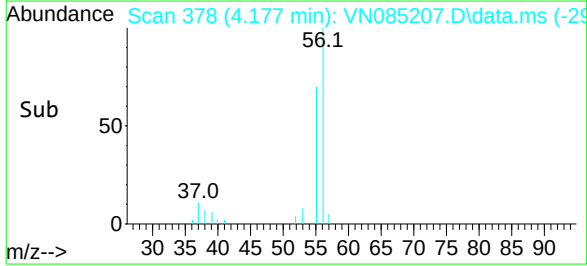
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



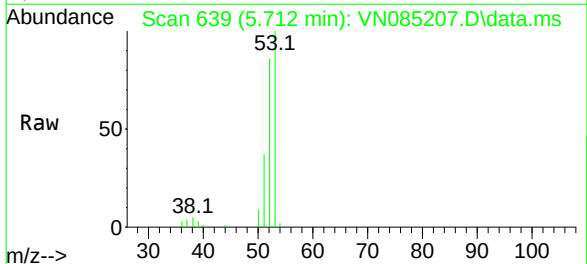
Tgt Ion: 56 Resp: 26169
Ion Ratio Lower Upper
56 100
55 70.7 59.4 89.0

Manual Integrations
APPROVED

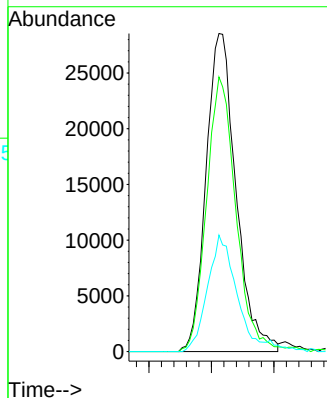
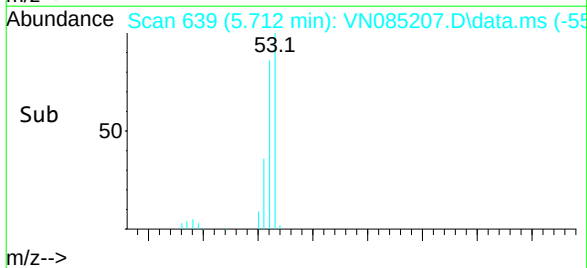
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

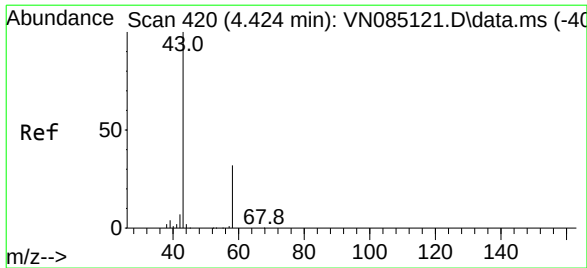


#14
Acrylonitrile
Concen: 95.305 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42



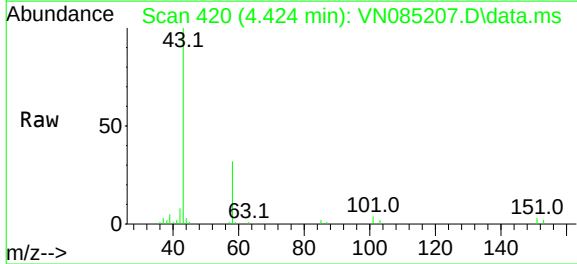
Tgt Ion: 53 Resp: 94996
Ion Ratio Lower Upper
53 100
52 83.9 42.9 128.5
51 35.1 17.2 51.5





#15
Acetone
Concen: 106.386 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

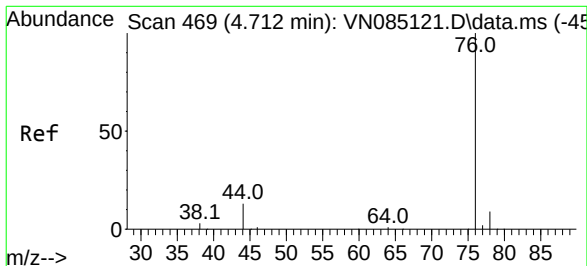
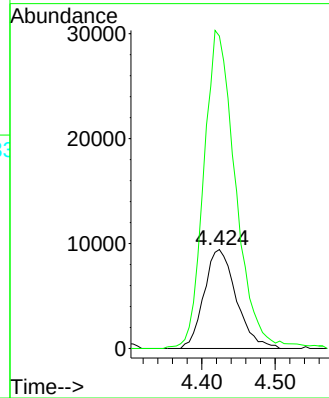
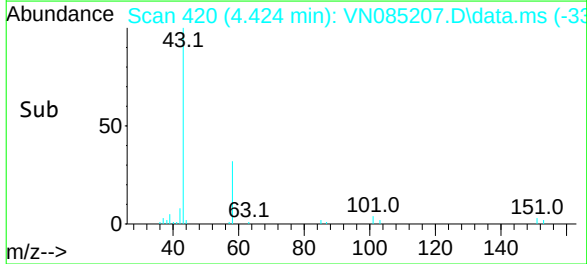
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 58 Resp: 28736
Ion Ratio Lower Upper
58 100
43 311.0 242.3 363.5

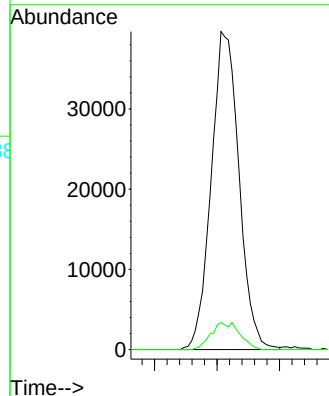
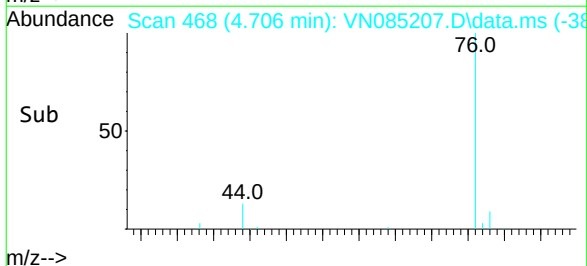
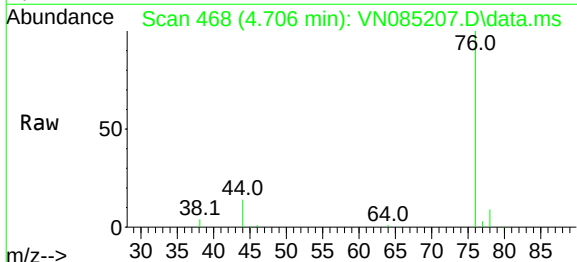
Manual Integrations
APPROVED

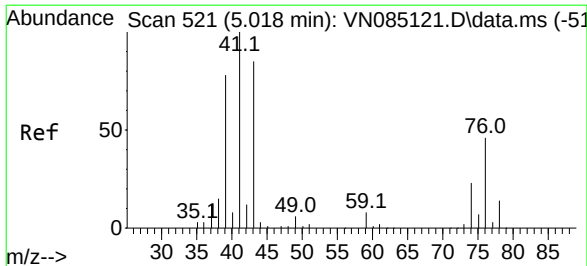
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#16
Carbon Disulfide
Concen: 20.161 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 76 Resp: 122618
Ion Ratio Lower Upper
76 100
78 8.5 7.1 10.7





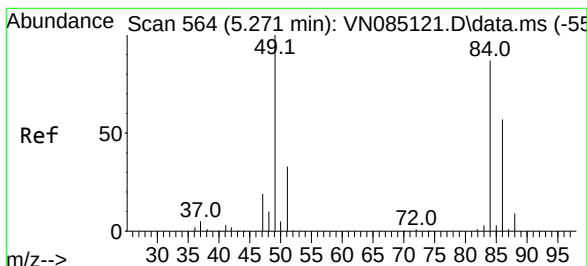
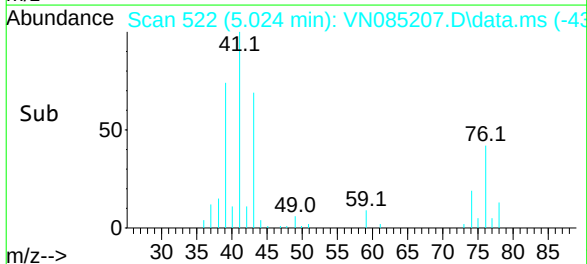
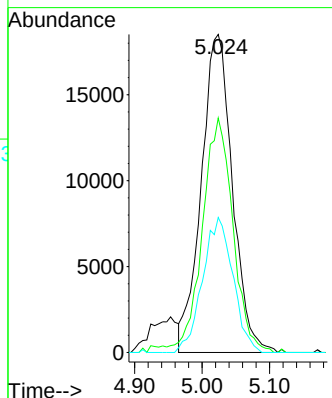
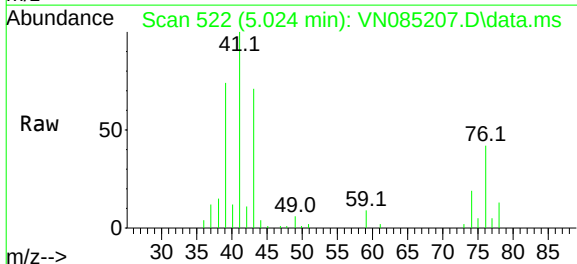
#17
Allyl chloride
Concen: 20.428 ug/l
RT: 5.024 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:	41	Resp:	59479
Ion	Ratio	Lower	Upper
41	100		
39	73.7	32.0	96.2
76	42.4	20.2	60.5

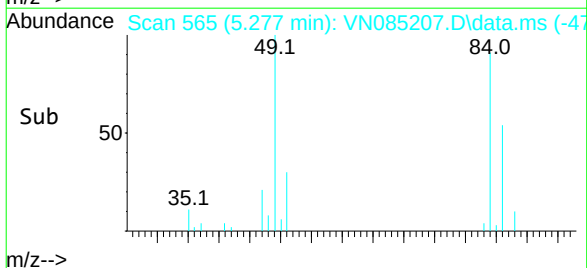
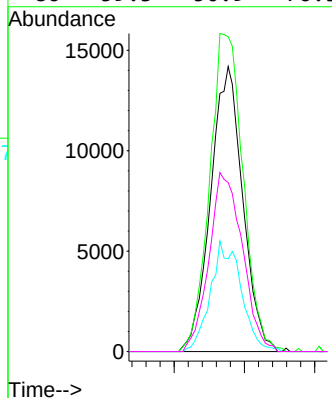
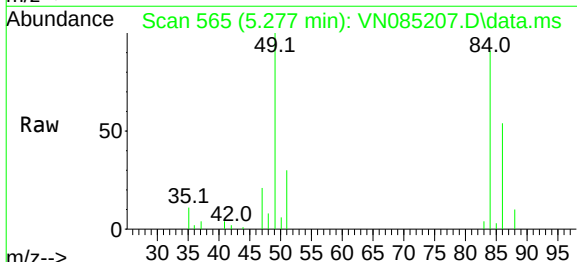
Manual Integrations
APPROVED

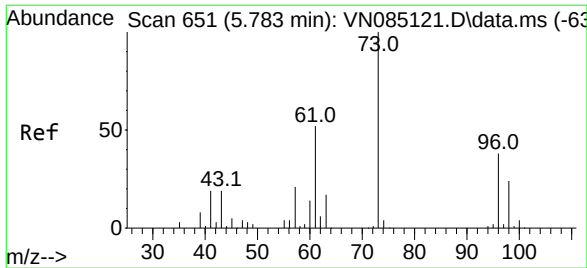
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#18
Methylene Chloride
Concen: 19.515 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

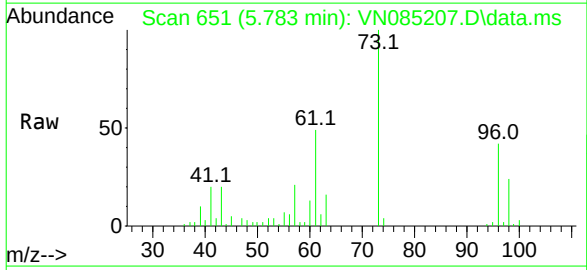
Tgt Ion:	84	Resp:	45057
Ion	Ratio	Lower	Upper
84	100		
49	110.5	95.1	142.7
51	32.6	27.4	41.0
86	59.3	50.9	76.3





#19
trans-1,2-Dichloroethene
Concen: 20.081 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

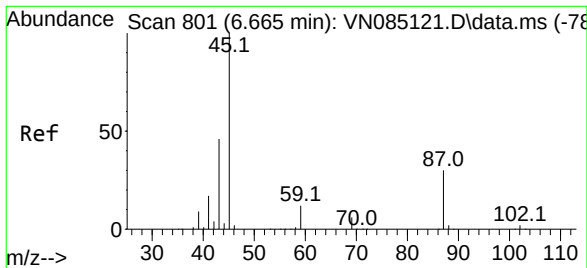
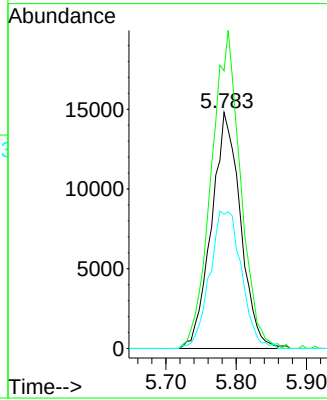
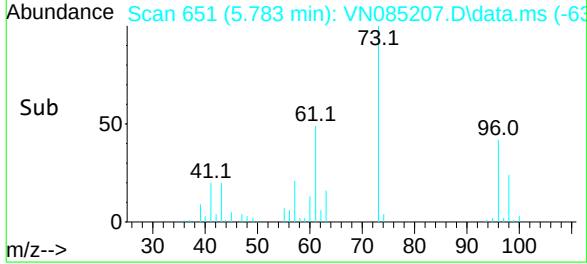
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



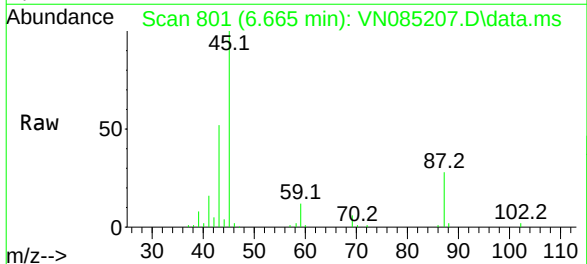
Tgt Ion: 96 Resp: 42471
Ion Ratio Lower Upper
96 100
61 117.7 100.4 150.6
98 56.9 52.6 79.0

Manual Integrations
APPROVED

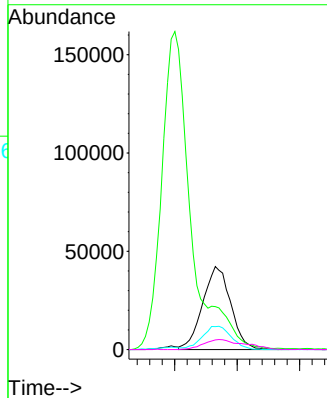
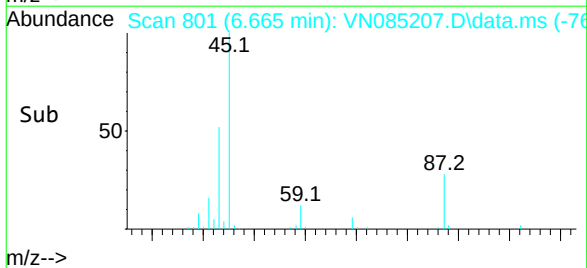
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

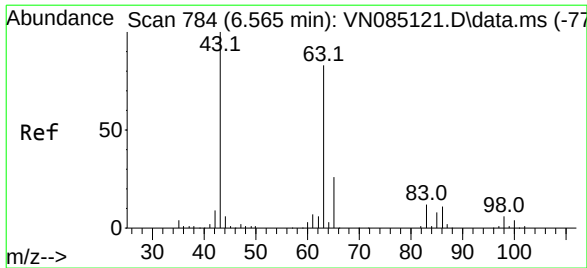


#20
Diisopropyl ether
Concen: 20.625 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42



Tgt Ion: 45 Resp: 131789
Ion Ratio Lower Upper
45 100
43 50.1 41.9 62.9
87 27.7 24.1 36.1
59 11.6 10.0 15.0





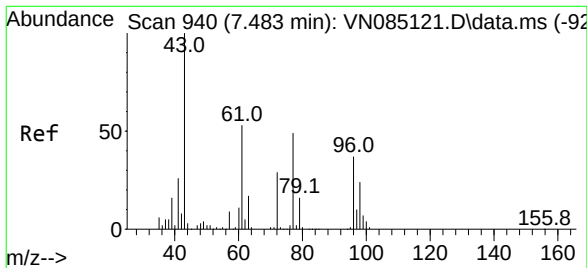
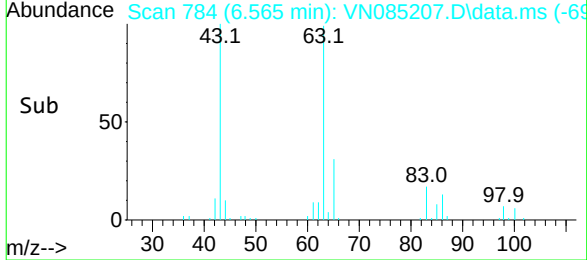
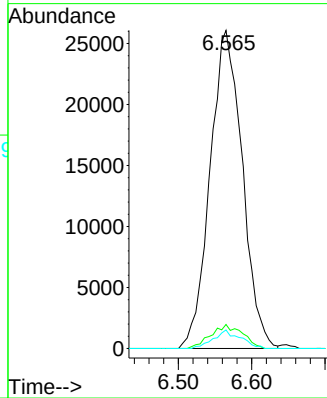
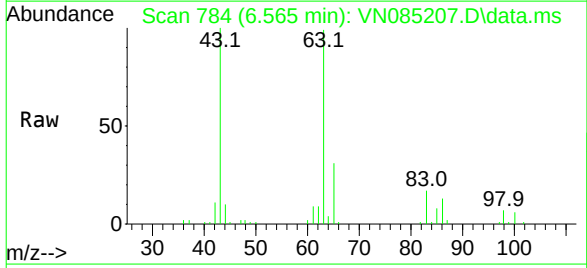
#21
1,1-Dichloroethane
Concen: 20.207 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 63 Resp: 79692
Ion Ratio Lower Upper
63 100
98 7.5 3.5 10.4
100 5.8 1.6 4.8#

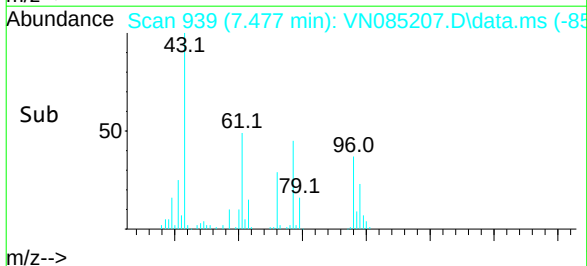
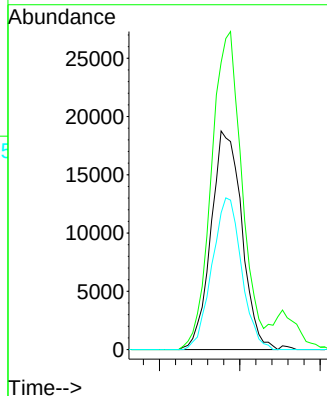
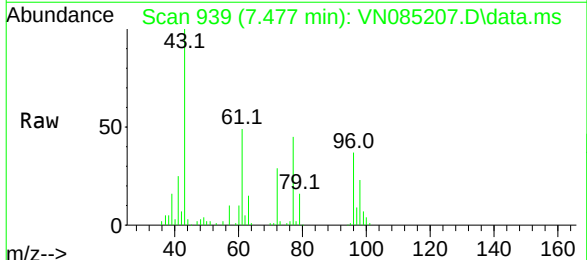
Manual Integrations
APPROVED

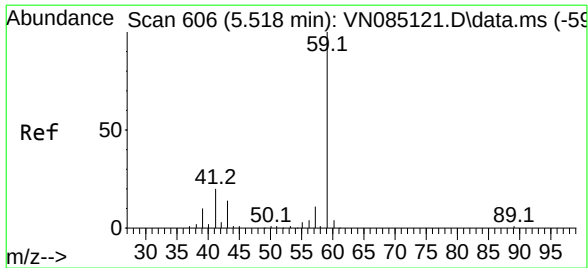
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#22
cis-1,2-Dichloroethene
Concen: 20.511 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.012 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 96 Resp: 49862
Ion Ratio Lower Upper
96 100
61 143.7 115.9 173.9
98 66.7 51.8 77.8





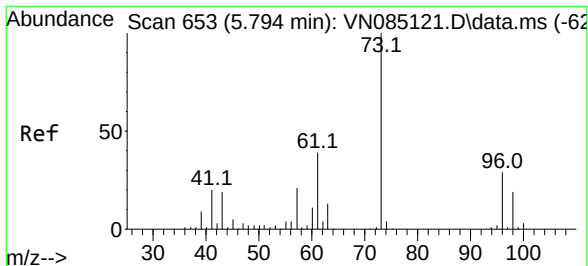
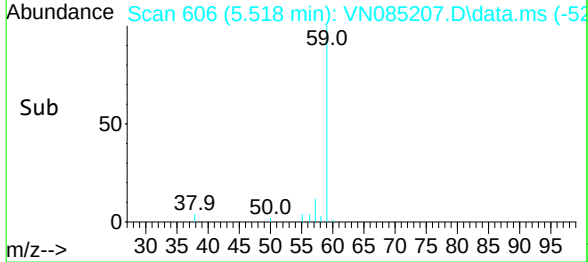
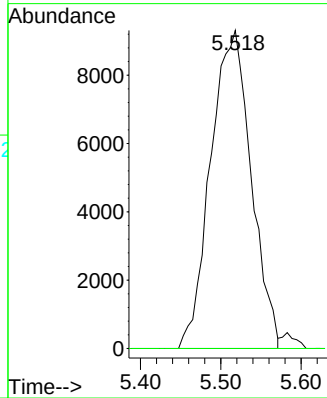
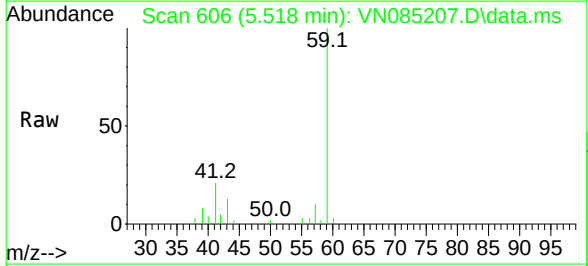
#23
tert-Butyl Alcohol
Concen: 91.223 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 59 Resp: 32619
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

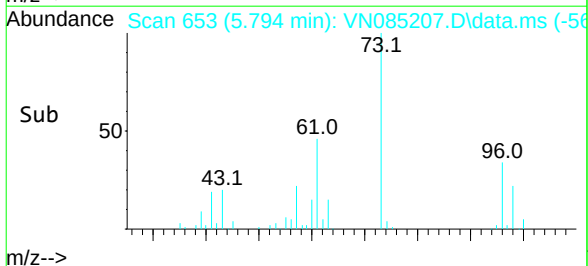
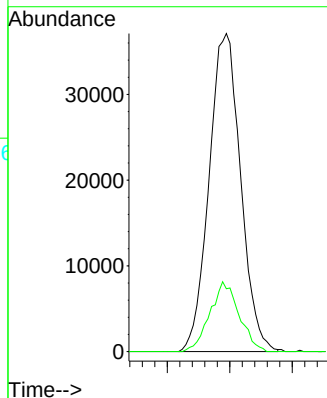
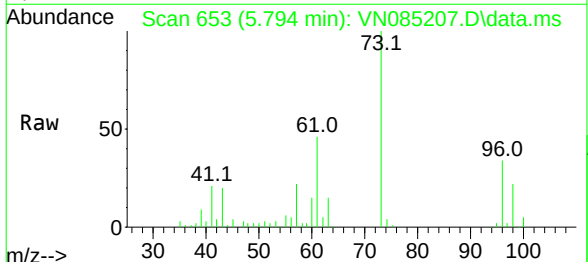
Manual Integrations
APPROVED

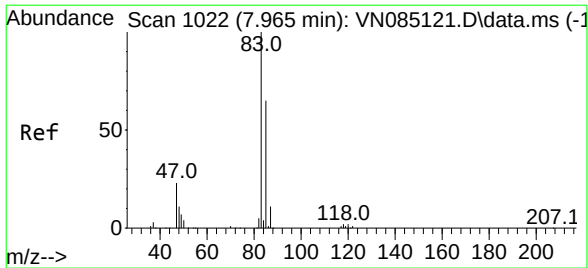
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#24
Methyl tert-Butyl Ether
Concen: 20.480 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 73 Resp: 130198
Ion Ratio Lower Upper
73 100
43 20.3 8.7 13.1#





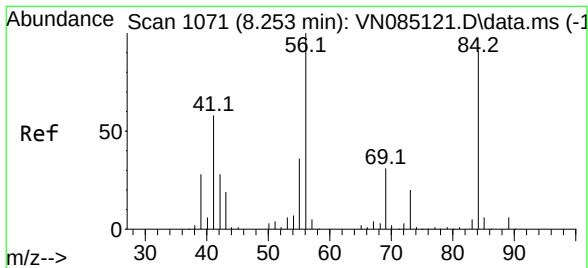
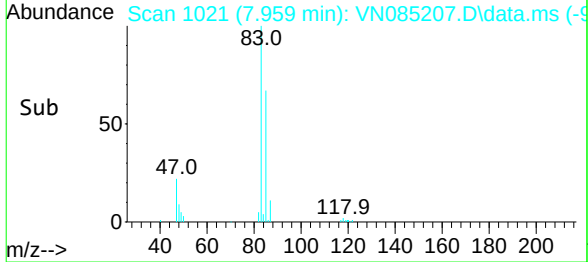
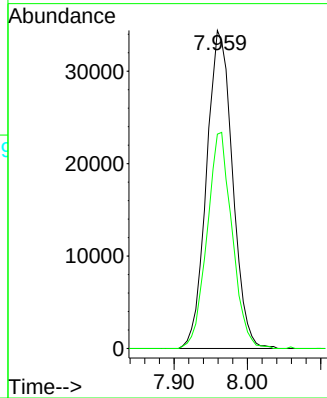
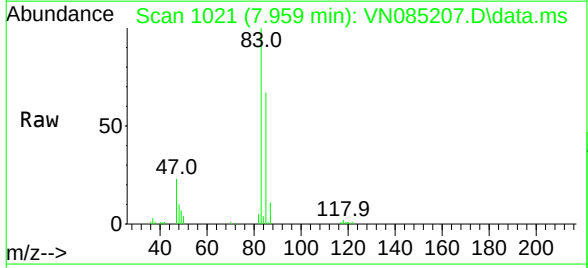
#25
Chloroform
Concen: 20.530 ug/l
RT: 7.959 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 83 Resp: 84820
Ion Ratio Lower Upper
83 100
85 67.4 49.4 74.0

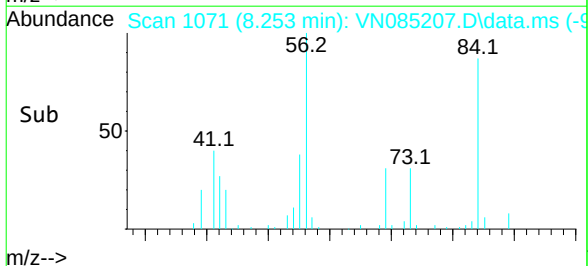
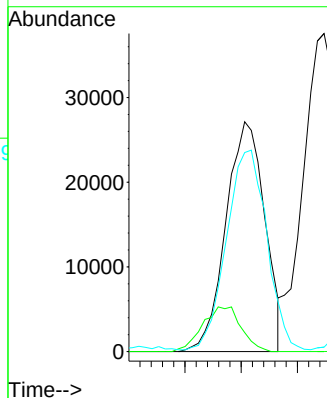
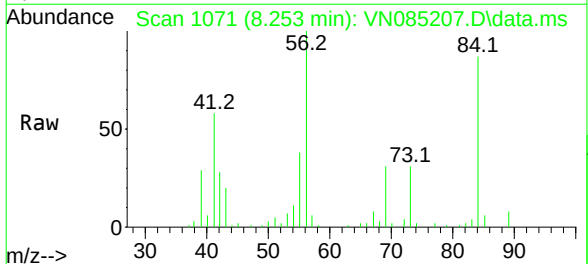
Manual Integrations
APPROVED

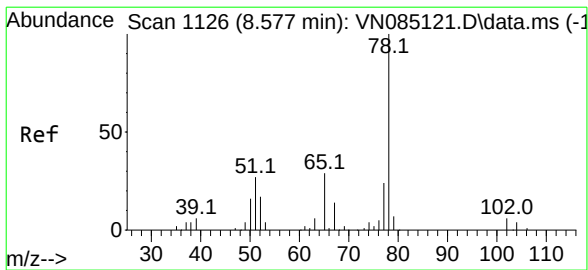
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#26
Cyclohexane
Concen: 20.069 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 56 Resp: 65168
Ion Ratio Lower Upper
56 100
89 19.4 19.5 29.3#
84 92.1 70.6 105.8





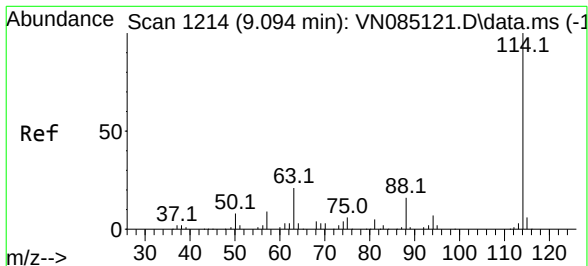
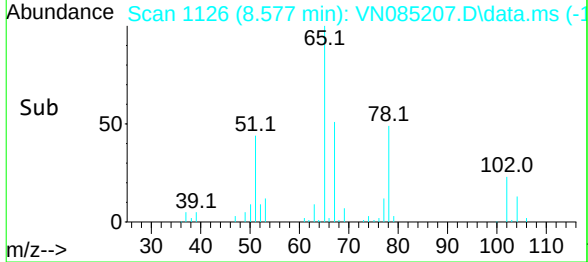
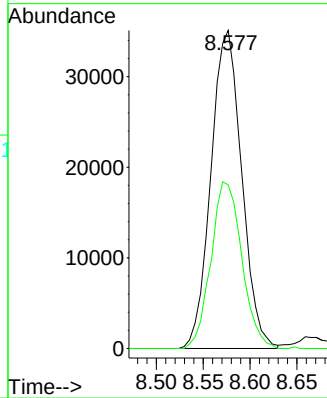
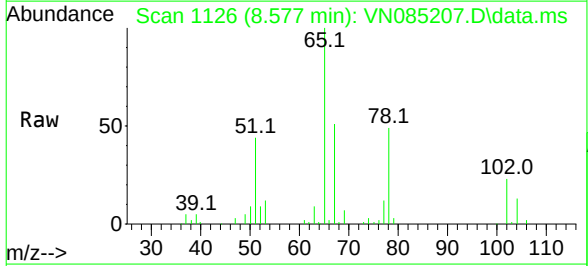
#27
1,2-Dichloroethane-d4
Concen: 30.226 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 65 Resp: 80133
Ion Ratio Lower Upper
65 100
67 52.4 39.9 59.9

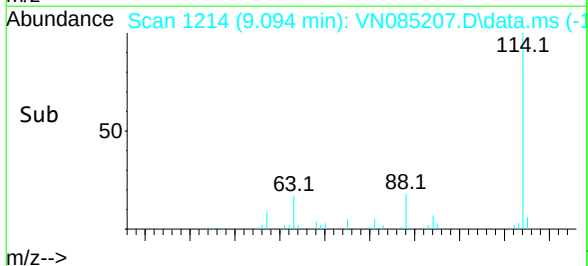
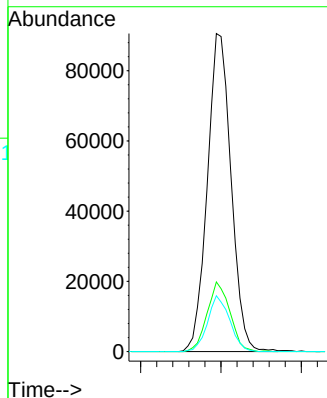
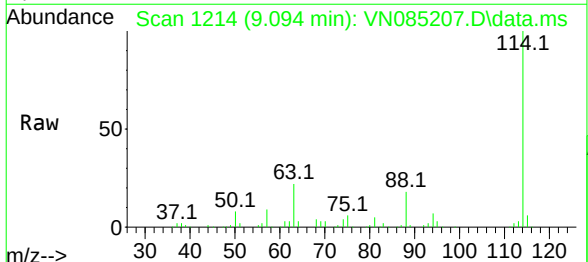
Manual Integrations
APPROVED

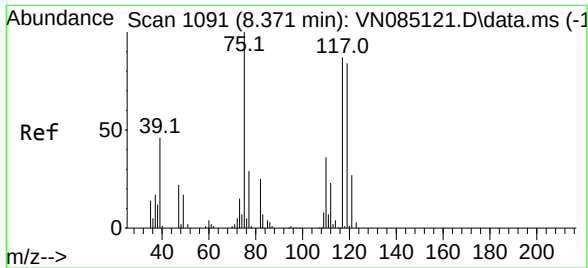
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:114 Resp: 185962
Ion Ratio Lower Upper
114 100
63 21.0 16.2 24.2
88 16.4 12.5 18.7





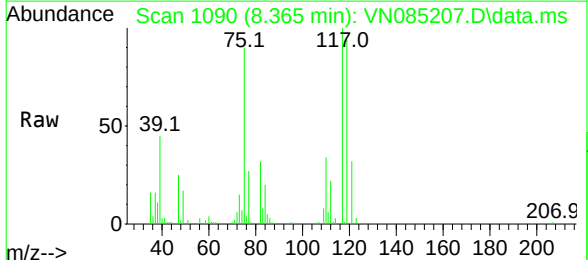
#29
1,1-Dichloropropene
Concen: 19.254 ug/l
RT: 8.365 min Scan# 1091
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

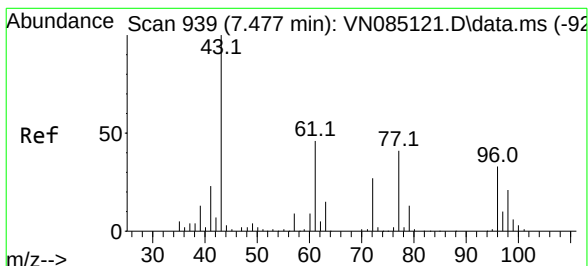
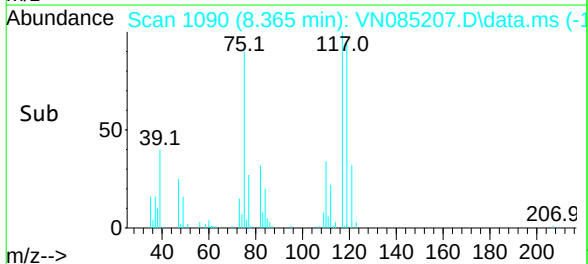
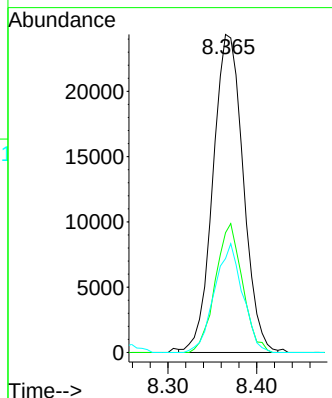
VSTDCCC020



Tgt Ion:	75	Resp:	57776
Ion	Ratio	Lower	Upper
75	100		
110	36.1	0.0	71.6
77	31.6	0.0	62.2

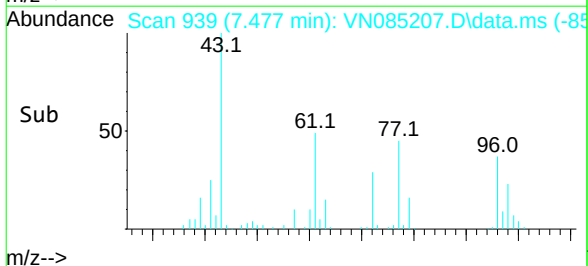
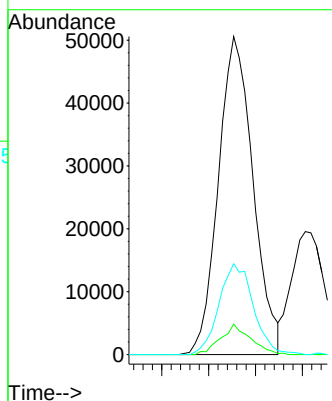
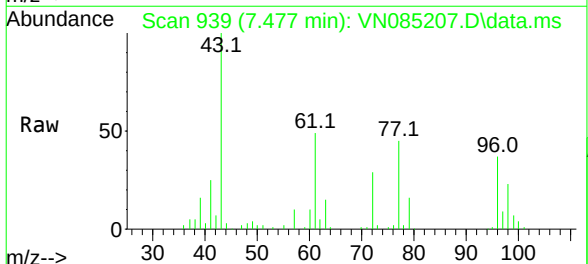
Manual Integrations
APPROVED

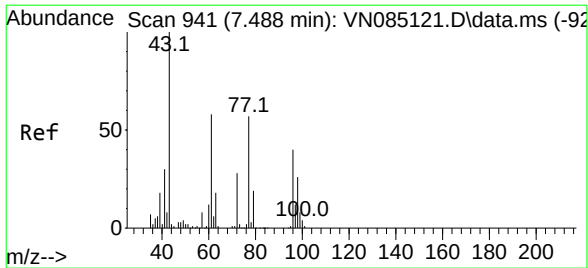
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#30
2-Butanone
Concen: 94.489 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:	43	Resp:	130116
Ion	Ratio	Lower	Upper
43	100		
57	8.2	6.9	10.3
72	28.2	21.8	32.8





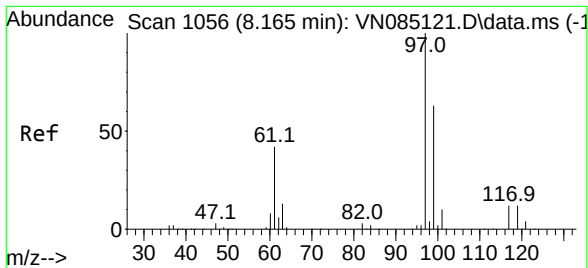
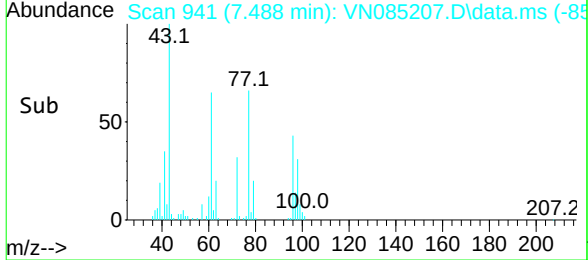
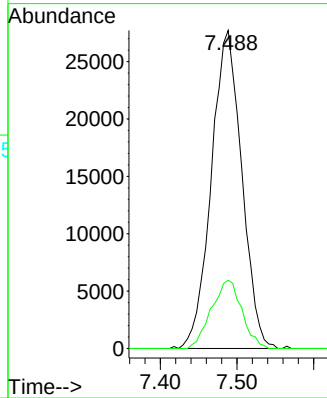
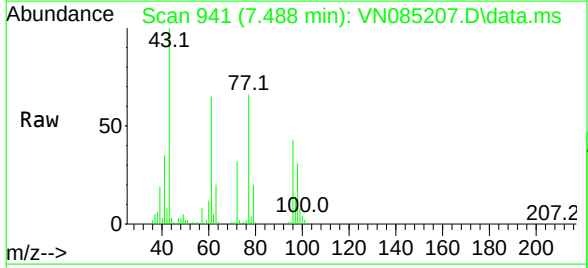
#31
2,2-Dichloropropane
Concen: 19.826 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 77 Resp: 76289
Ion Ratio Lower Upper
77 100
97 21.5 0.0 0.0#

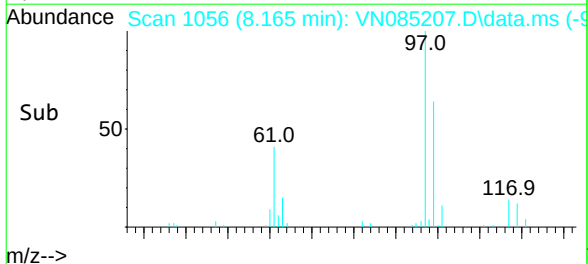
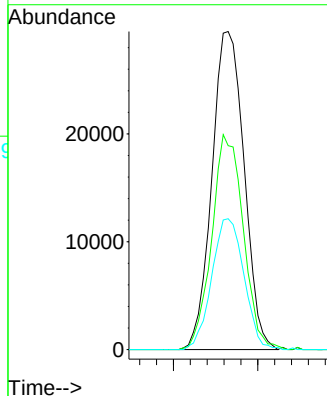
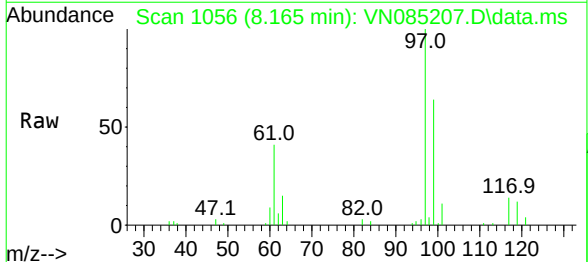
Manual Integrations
APPROVED

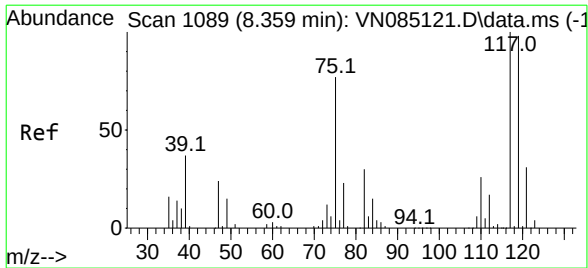
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#32
1,1,1-Trichloroethane
Concen: 19.264 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

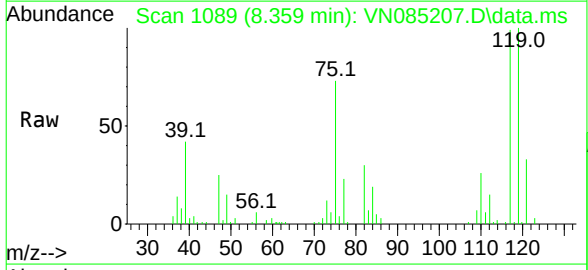
Tgt Ion: 97 Resp: 78244
Ion Ratio Lower Upper
97 100
99 65.9 50.8 76.2
61 41.2 32.7 49.1





#33
Carbon Tetrachloride
Concen: 18.888 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

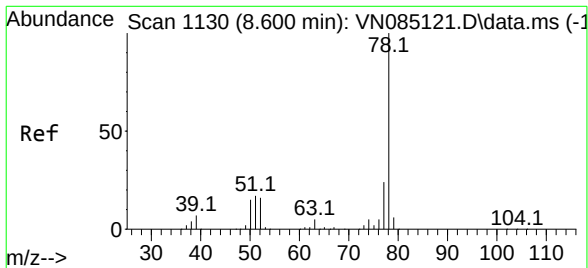
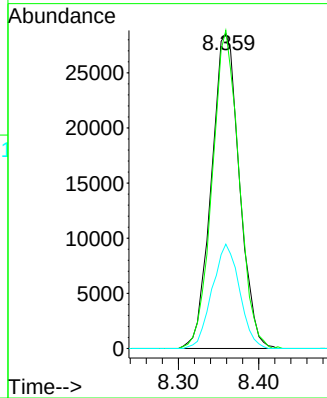
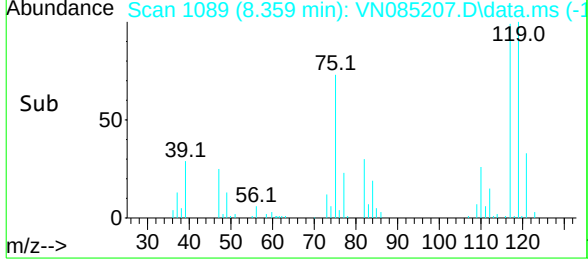
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



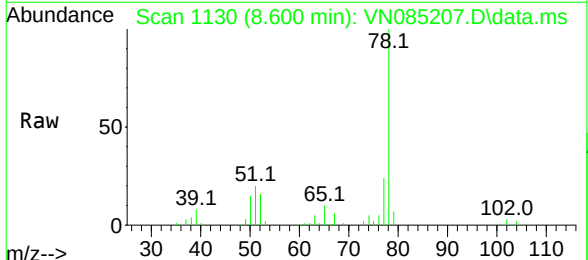
Tgt Ion: 117 Resp: 69225
Ion Ratio Lower Upper
117 100
119 101.0 81.6 122.4
121 33.1 26.5 39.7

Manual Integrations
APPROVED

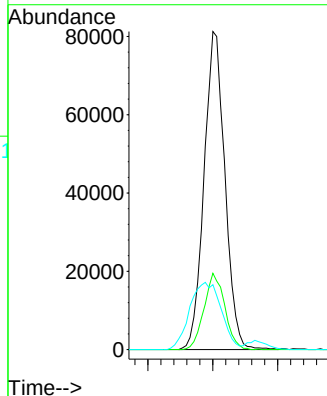
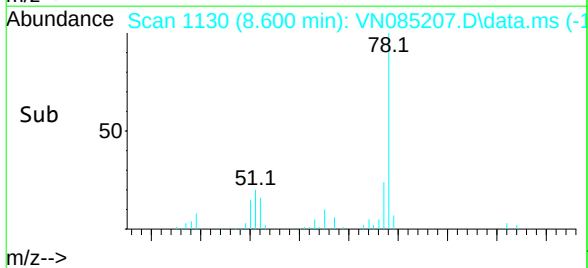
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024

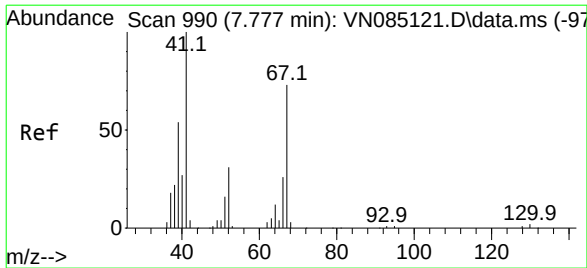


#34
Benzene
Concen: 19.246 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42



Tgt Ion: 78 Resp: 181426
Ion Ratio Lower Upper
78 100
77 24.0 18.0 27.0
51 20.0 12.4 18.6#





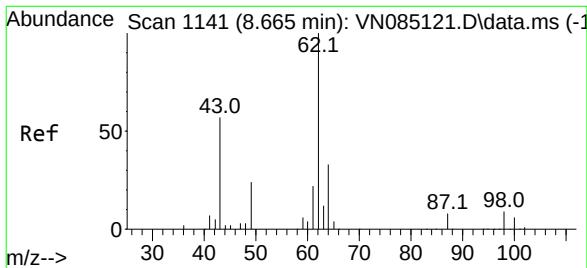
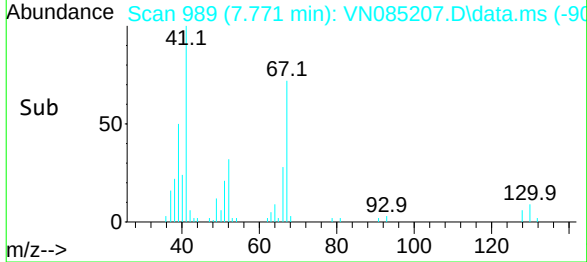
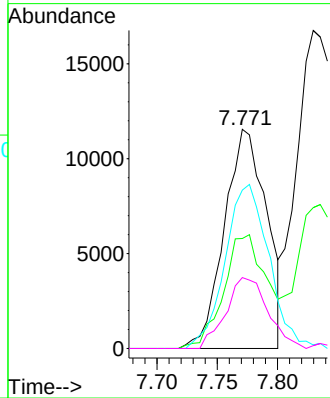
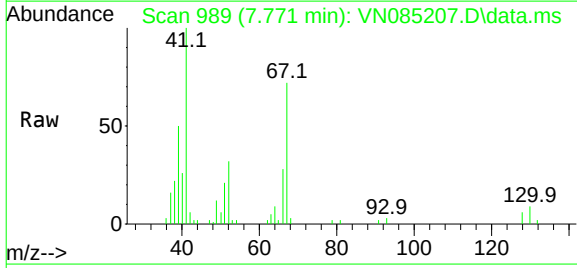
#35
Methacrylonitrile
Concen: 18.152 ug/l
RT: 7.771 min Scan# 989
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:	41	Resp:	28129
Ion	Ratio	Lower	Upper
41	100		
39	50.2	24.4	73.2
67	72.3	37.0	110.9
52	32.3	12.4	37.2

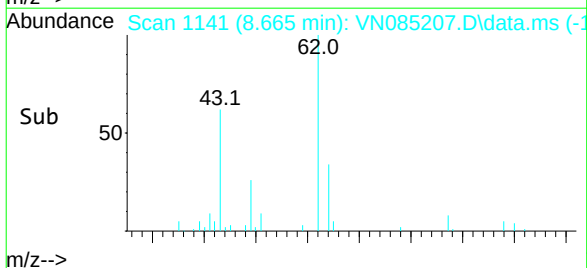
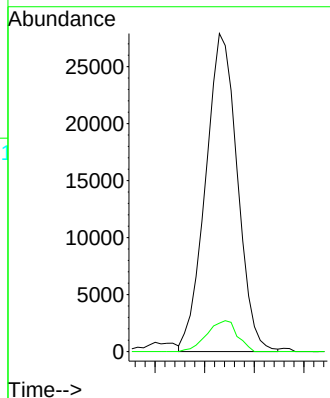
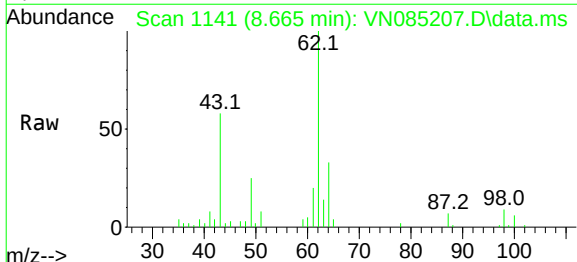
Manual Integrations
APPROVED

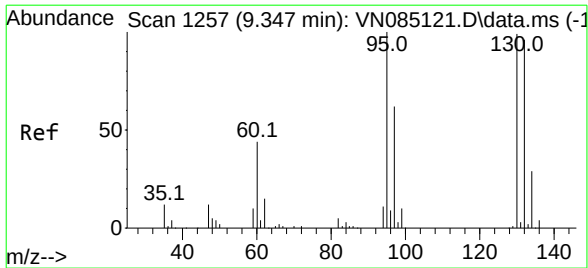
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#36
1,2-Dichloroethane
Concen: 19.368 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:	62	Resp:	62153
Ion	Ratio	Lower	Upper
62	100		
98	9.3	7.3	10.9





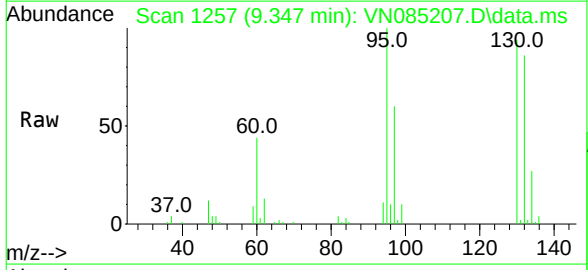
#37
 Trichloroethene
 Concen: 19.949 ug/l
 RT: 9.347 min Scan# 1257
 Delta R.T. -0.006 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

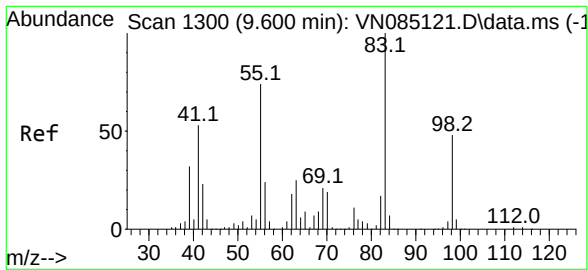
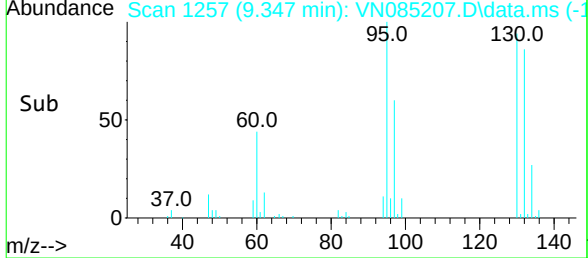
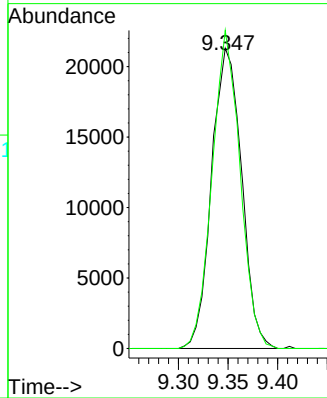


Tgt Ion:130 Resp: 44782
 Ion Ratio Lower Upper
 130 100
 95 105.9 76.2 114.4

Manual Integrations

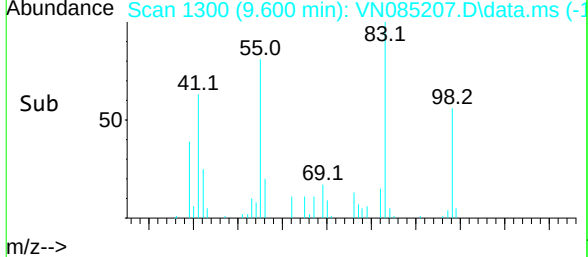
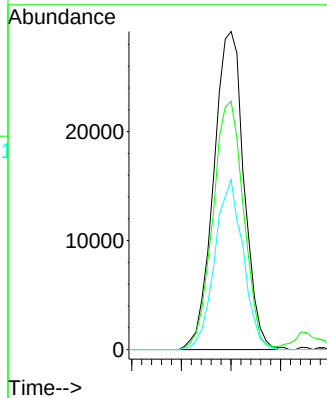
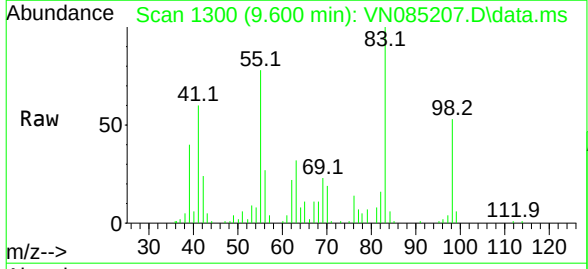
APPROVED

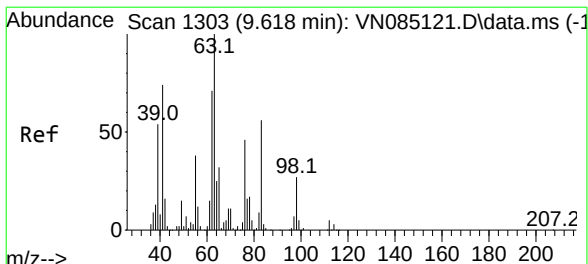
Reviewed By :John Carlone 12/16/2024
 Supervised By :Mahesh Dadoda 12/17/2024



#38
 Methylcyclohexane
 Concen: 19.000 ug/l
 RT: 9.600 min Scan# 1300
 Delta R.T. 0.000 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

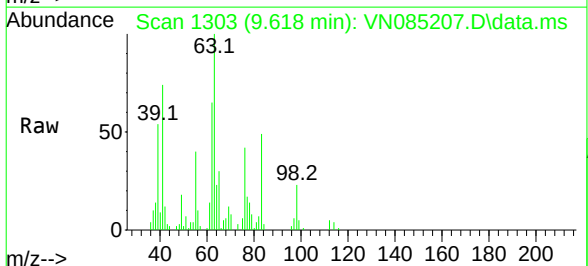
Tgt Ion: 83 Resp: 61994
 Ion Ratio Lower Upper
 83 100
 55 79.1 41.4 124.4
 98 49.9 25.7 77.1





#39
 1,2-Dichloropropane
 Concen: 19.143 ug/l
 RT: 9.618 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

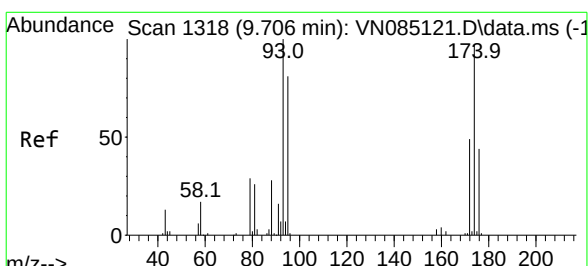
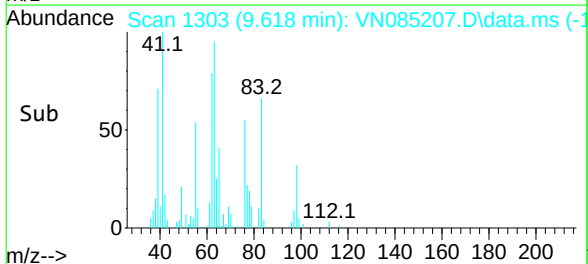
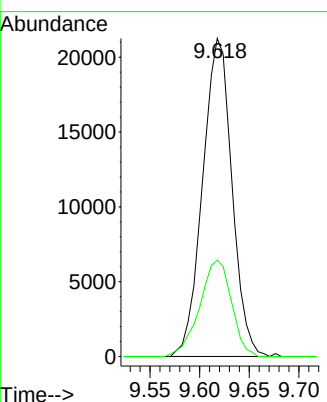
Instrument : MSVOA_N
 ClientSampleId : VSTDCCC020



Tgt Ion: 63 Resp: 43708

Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.4	35.0

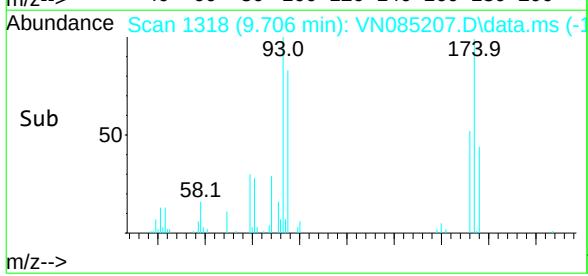
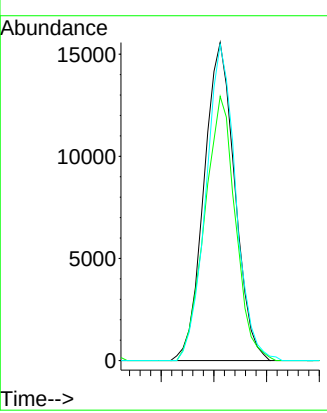
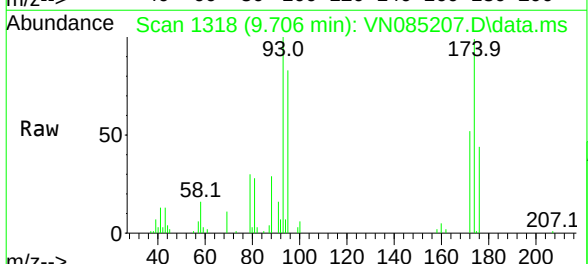
Manual Integrations
APPROVED
 Reviewed By :John Carlone 12/16/2024
 Supervised By :Mahesh Dadoda 12/17/2024

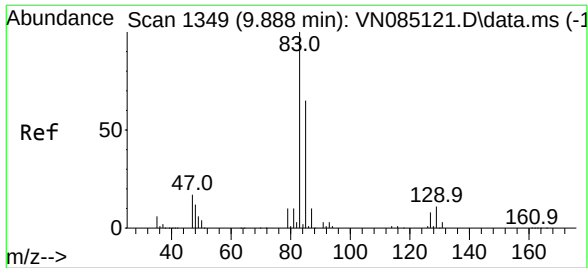


#40
 Dibromomethane
 Concen: 19.271 ug/l
 RT: 9.706 min Scan# 1318
 Delta R.T. 0.000 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

Tgt Ion: 93 Resp: 31562

Ion	Ratio	Lower	Upper
93	100		
95	82.7	0.0	169.4
174	96.3	0.0	189.8





#41
Bromodichloromethane
Concen: 19.343 ug/l
RT: 9.882 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

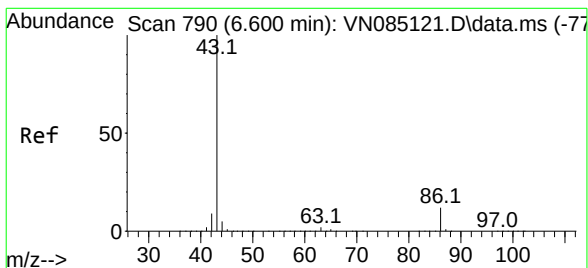
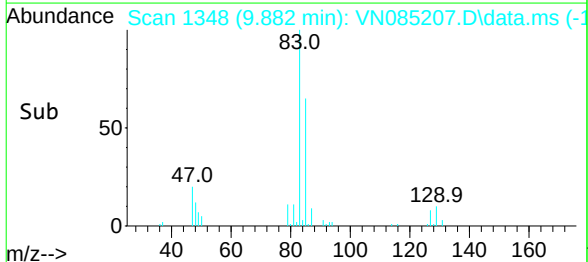
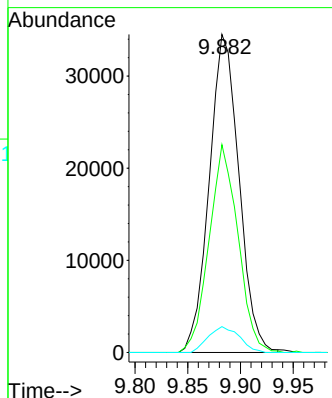
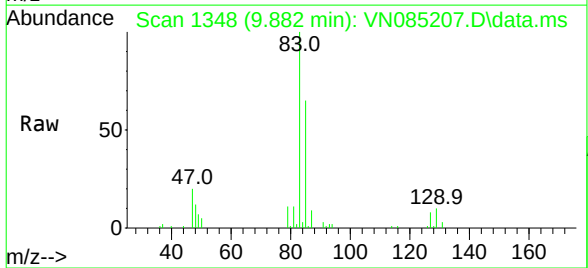
ClientSampleId :

VSTDCCC020

Tgt Ion:	83	Resp:	67723
Ion	Ratio	Lower	Upper
83	100		
85	65.3	54.6	81.8
127	8.1	7.0	10.6

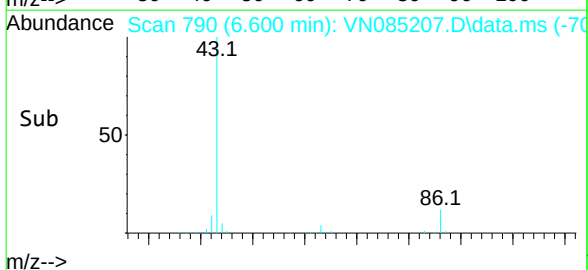
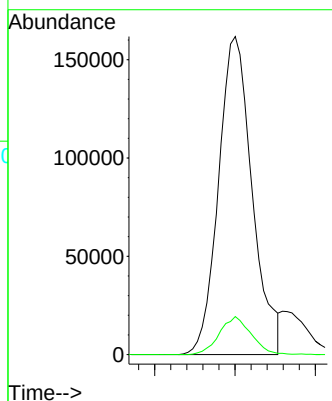
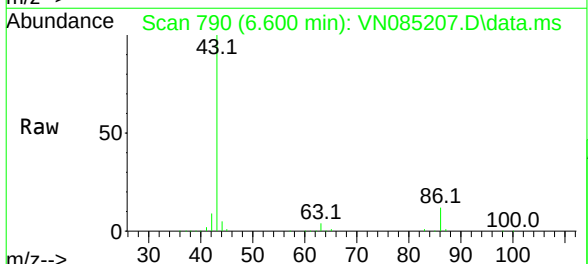
Manual Integrations
APPROVED

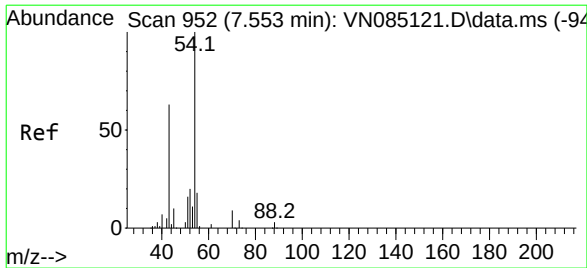
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#42
Vinyl Acetate
Concen: 97.906 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

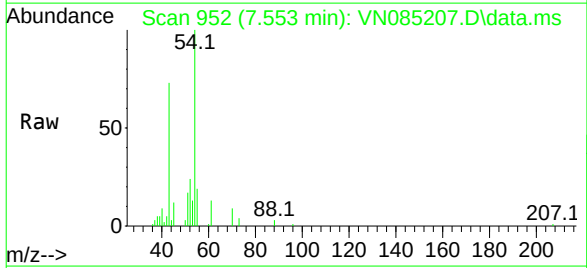
Tgt Ion:	43	Resp:	471771
Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.2	13.8





#43
Ethyl Acetate
Concen: 18.066 ug/l
RT: 7.553 min Scan# 952
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

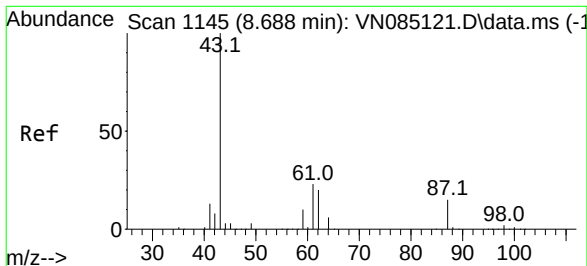
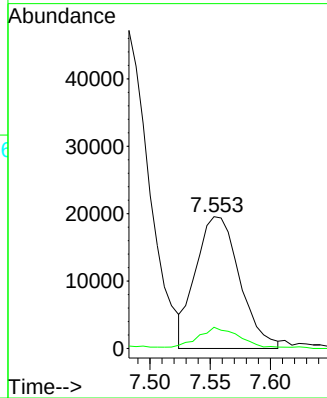
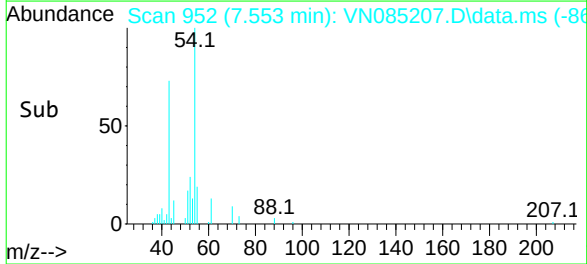
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 43 Resp: 49499
Ion Ratio Lower Upper
43 100
45 14.9 13.3 19.9

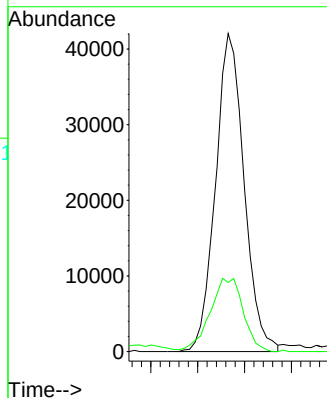
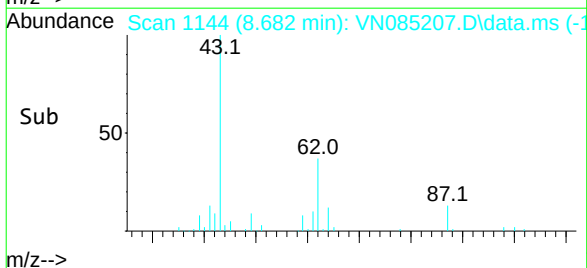
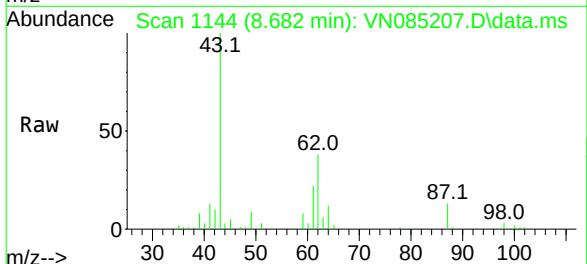
Manual Integrations
APPROVED

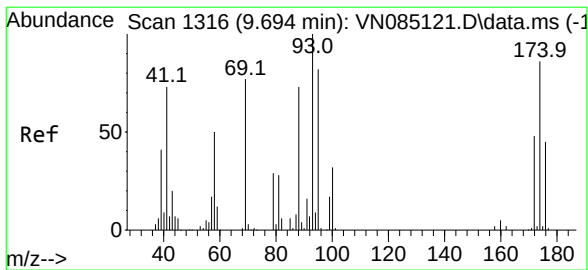
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#44
Isopropyl Acetate
Concen: 18.694 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

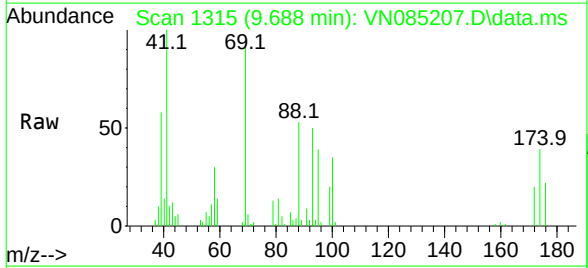
Tgt Ion: 43 Resp: 89011
Ion Ratio Lower Upper
43 100
61 26.7 21.5 32.3





#45
1,4-Dioxane
Concen: 392.939 ug/l
RT: 9.688 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

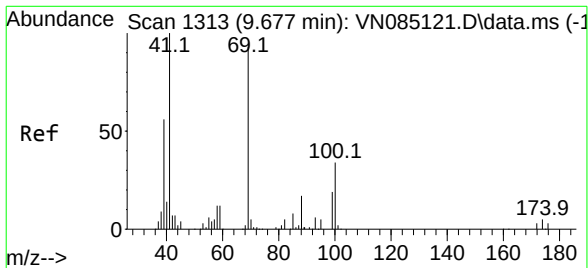
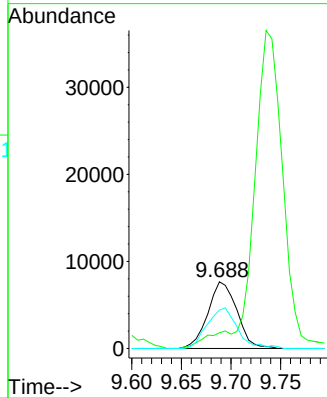
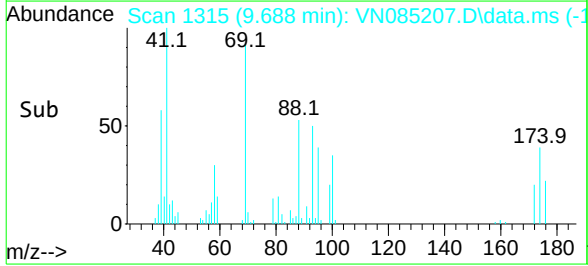
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



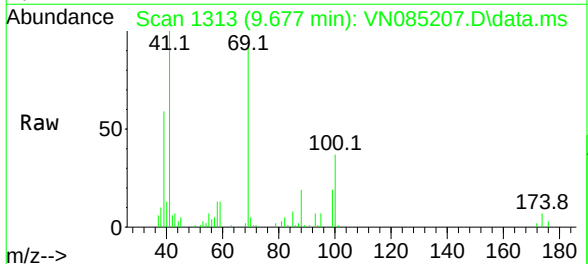
Tgt Ion: 88 Resp: 15602
Ion Ratio Lower Upper
88 100
43 24.2 21.7 32.5
58 62.3 52.6 79.0

Manual Integrations
APPROVED

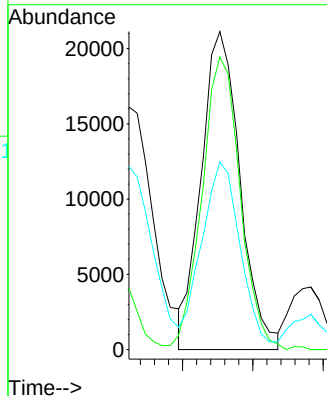
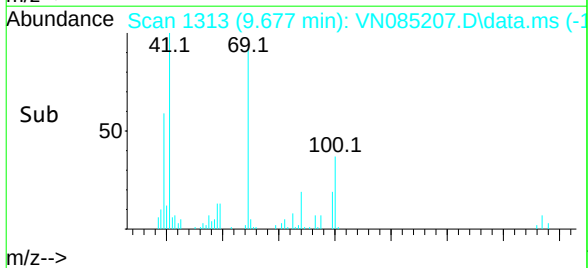
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

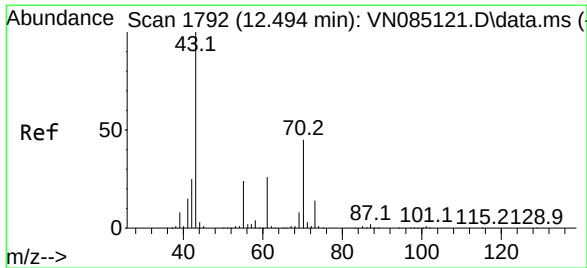


#46
Methyl methacrylate
Concen: 18.632 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42



Tgt Ion: 41 Resp: 40601
Ion Ratio Lower Upper
41 100
69 95.2 46.7 140.0
39 59.6 28.5 85.5





#47

n-amy1 Acetate

Concen: 18.361 ug/l

RT: 12.494 min Scan# 17

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 43 Resp: 73556

Ion Ratio Lower Upper

43 100

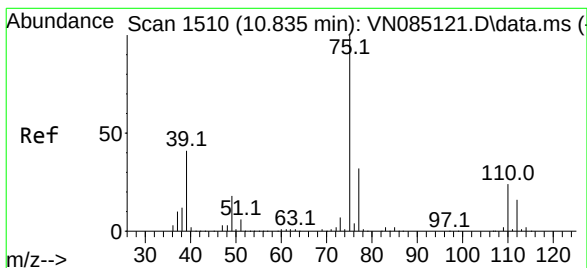
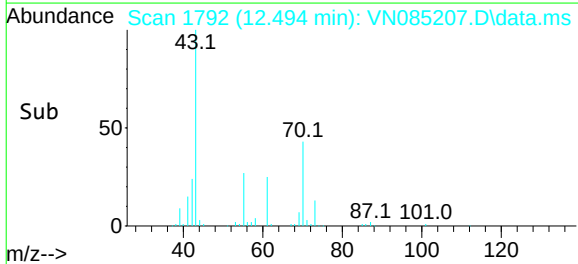
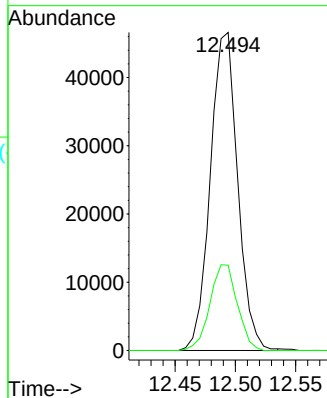
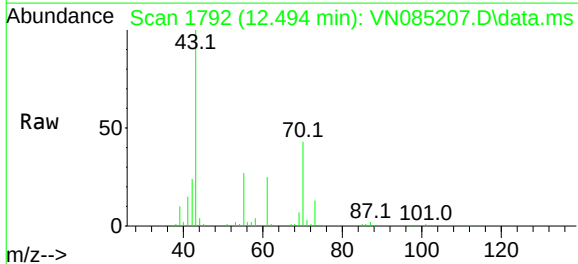
55 27.0 23.3 34.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#48

t-1,3-Dichloropropene

Concen: 19.202 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VN085207.D

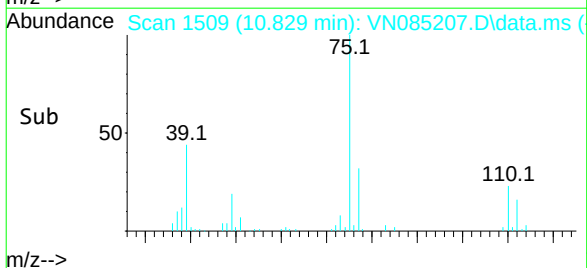
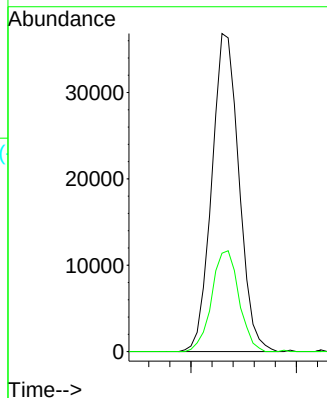
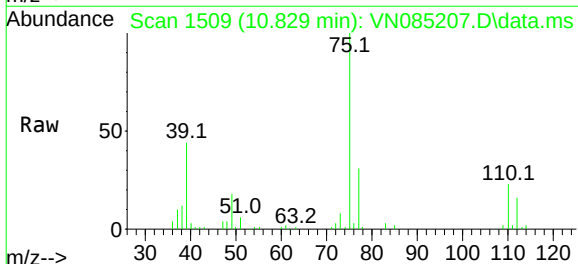
Acq: 16 Dec 2024 09:42

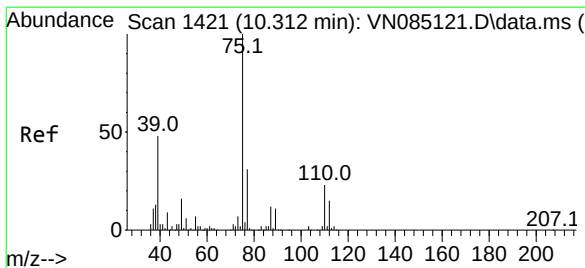
Tgt Ion: 75 Resp: 65995

Ion Ratio Lower Upper

75 100

77 30.9 25.5 38.3





#49

cis-1,3-Dichloropropene

Concen: 19.544 ug/l

RT: 10.306 min Scan# 1421

Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

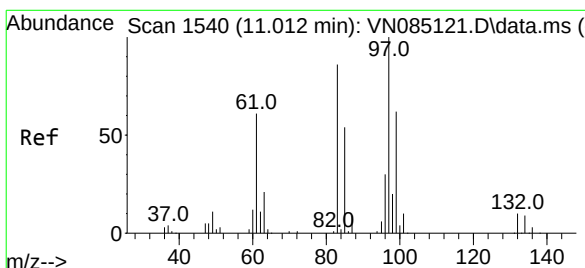
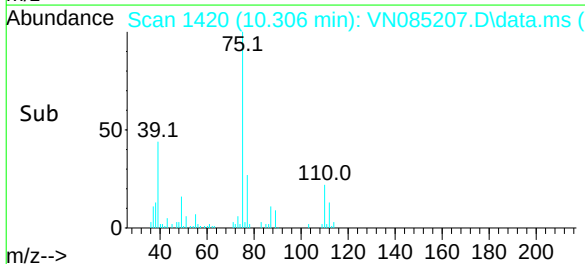
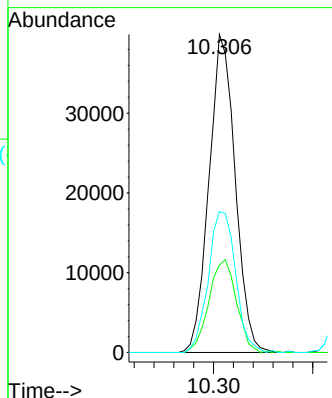
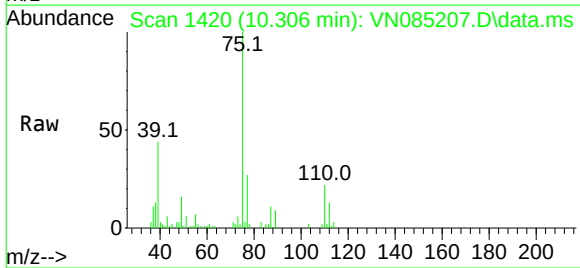
Tgt Ion: 75	Resp: 73124
Ion Ratio	Lower Upper
75 100	
77 27.5	23.8 35.6
39 44.3	37.3 55.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#50

1,1,2-Trichloroethane

Concen: 19.311 ug/l

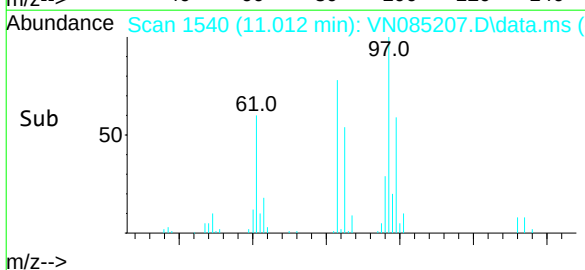
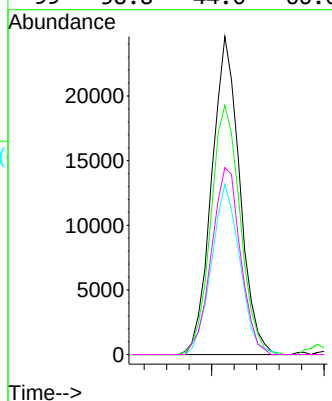
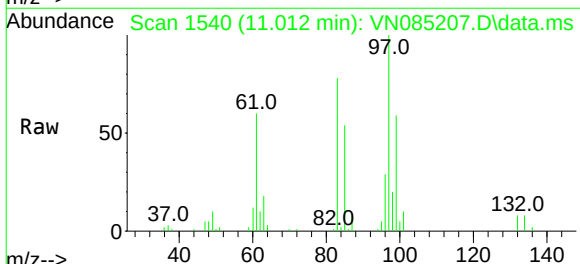
RT: 11.012 min Scan# 1540

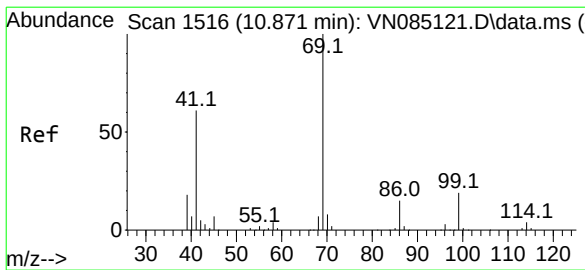
Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Tgt Ion: 97	Resp: 42618
Ion Ratio	Lower Upper
97 100	
83 78.4	65.8 98.8
85 53.5	40.8 61.2
99 58.8	44.0 66.0





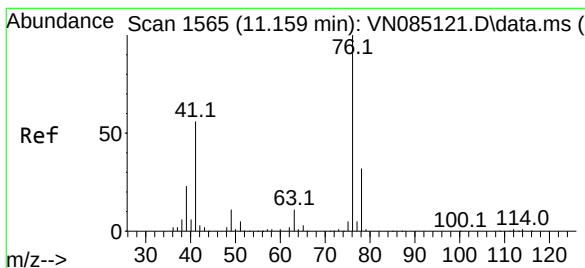
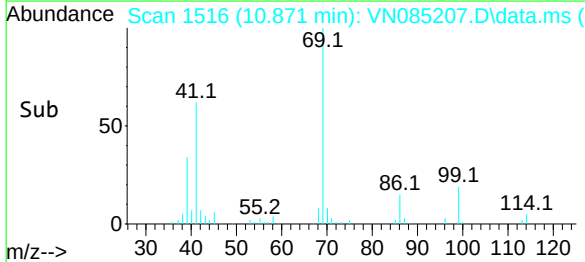
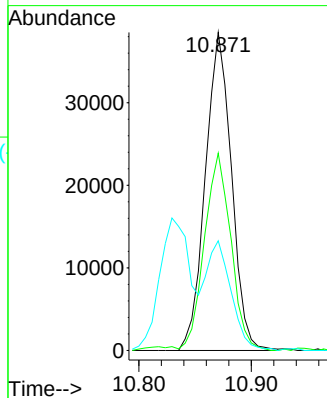
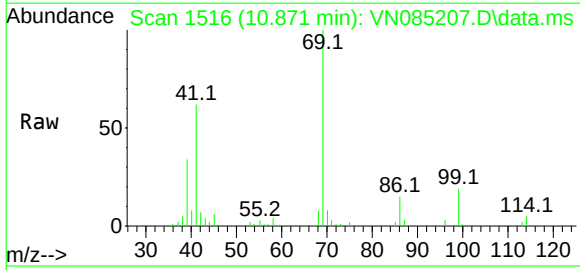
#51
Ethyl methacrylate
Concen: 18.569 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.0	32.1	96.3
39	34.5	18.8	56.4

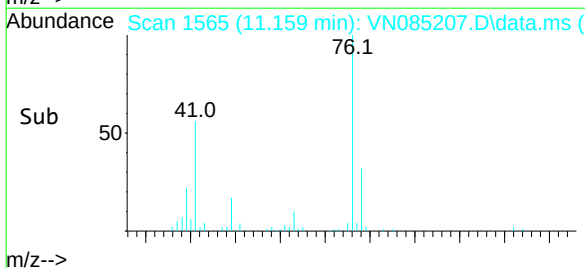
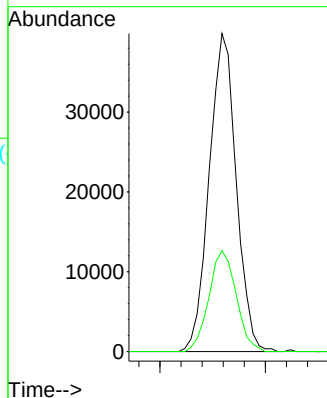
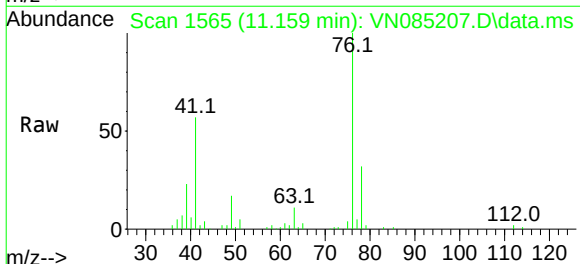
Manual Integrations
APPROVED

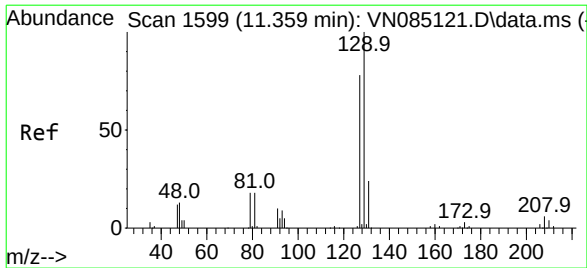
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#52
1,3-Dichloropropane
Concen: 19.192 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.1	0.0	65.6





#53

Dibromochloromethane

Concen: 18.970 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion:129 Resp: 51019

Ion Ratio Lower Upper

129 100

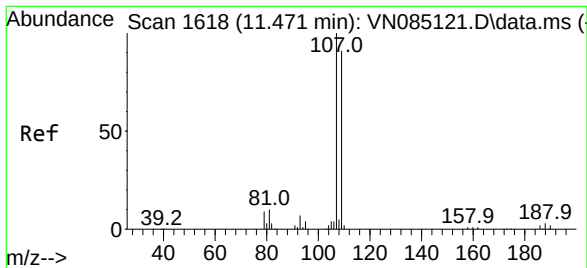
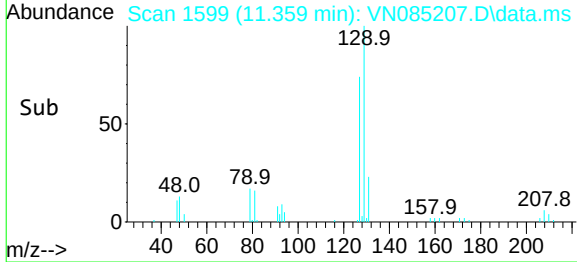
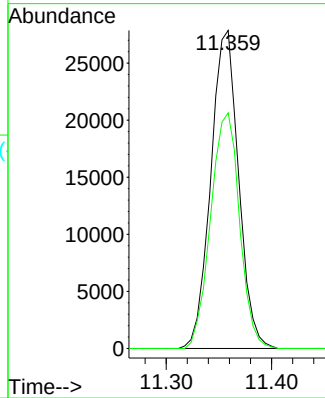
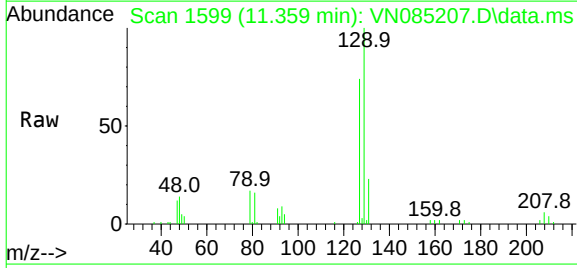
127 76.8 37.3 111.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#54

1,2-Dibromoethane

Concen: 19.116 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. 0.000 min

Lab File: VN085207.D

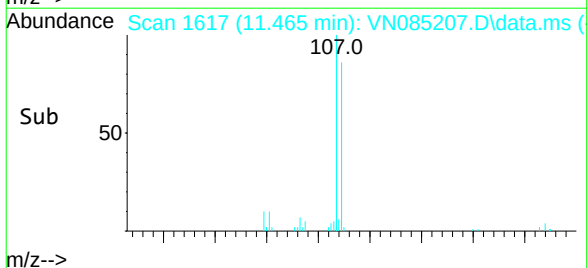
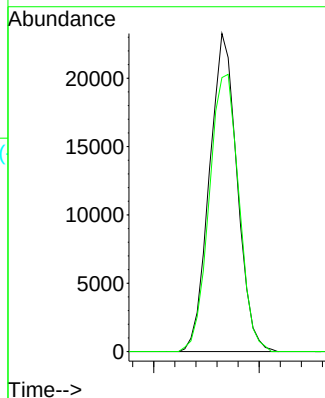
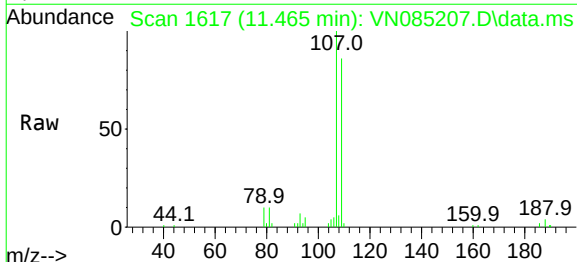
Acq: 16 Dec 2024 09:42

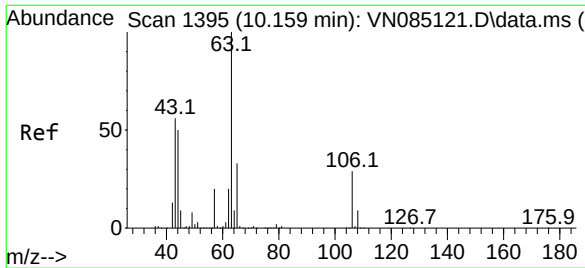
Tgt Ion:107 Resp: 42506

Ion Ratio Lower Upper

107 100

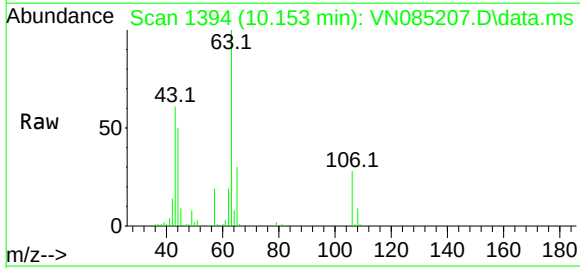
109 93.2 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 78.348 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

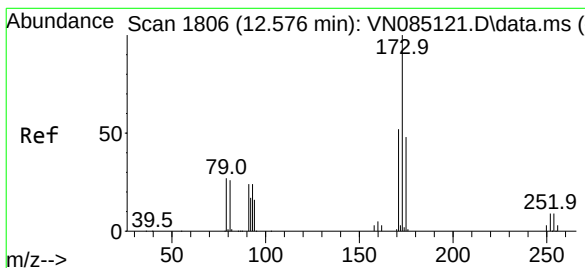
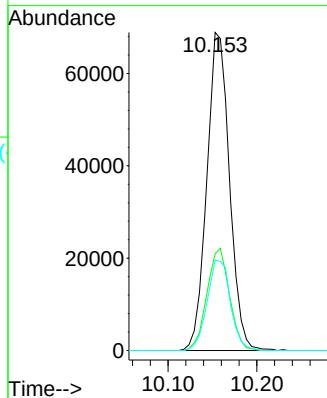
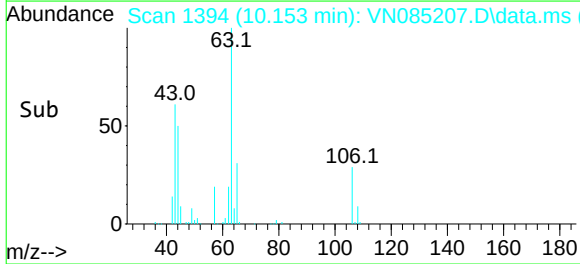
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 63 Resp: 122170
Ion Ratio Lower Upper
63 100
65 31.9 25.9 38.9
106 29.2 23.5 35.3

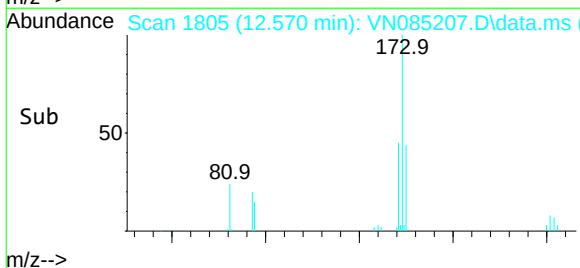
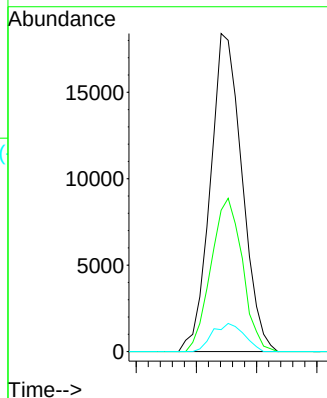
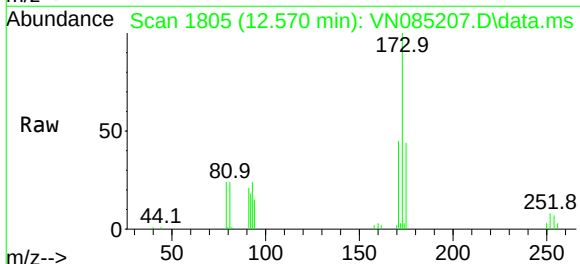
Manual Integrations
APPROVED

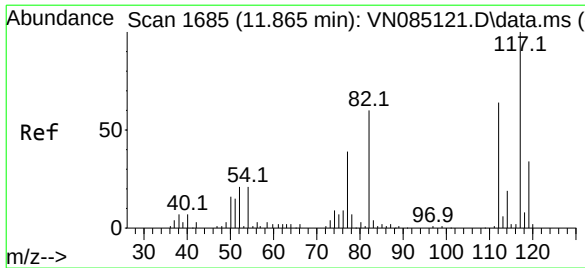
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#56
Bromoform
Concen: 18.650 ug/l
RT: 12.570 min Scan# 1805
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:173 Resp: 33630
Ion Ratio Lower Upper
173 100
175 47.7 40.2 60.2
254 8.9 6.2 9.4





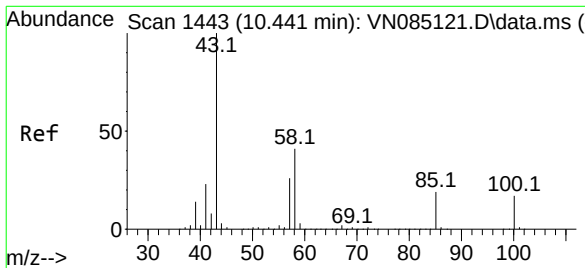
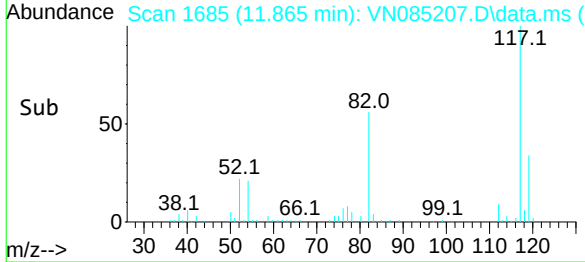
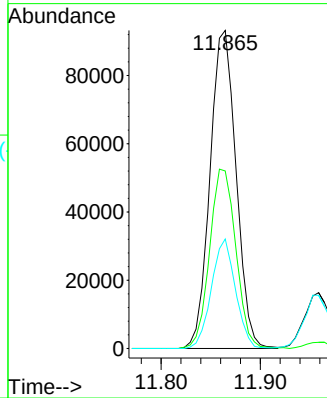
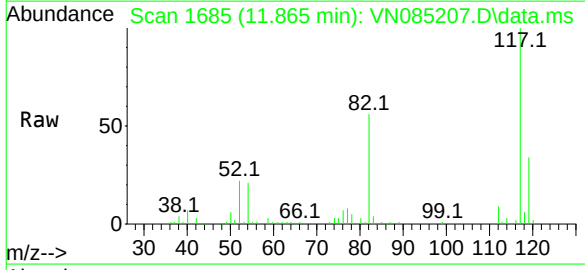
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:	117	Resp:	170233
Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.2	66.4
119	31.8	25.4	38.2

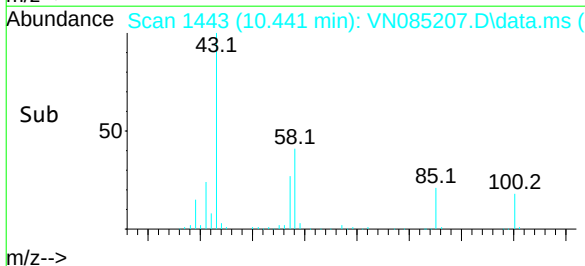
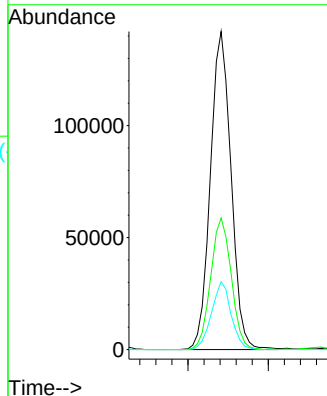
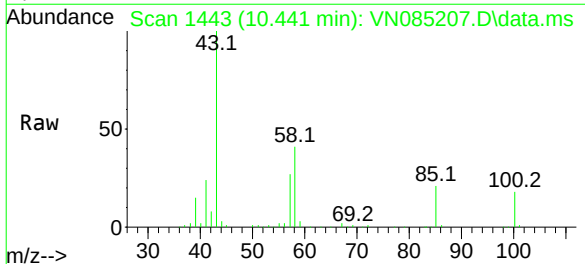
Manual Integrations
APPROVED

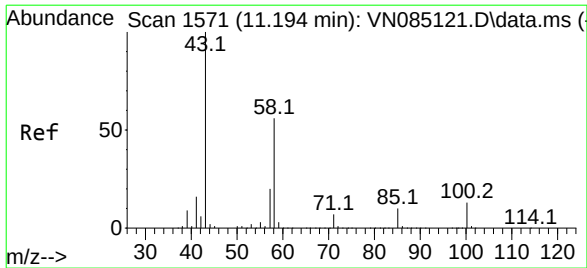
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#58
4-Methyl-2-Pentanone
Concen: 91.560 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

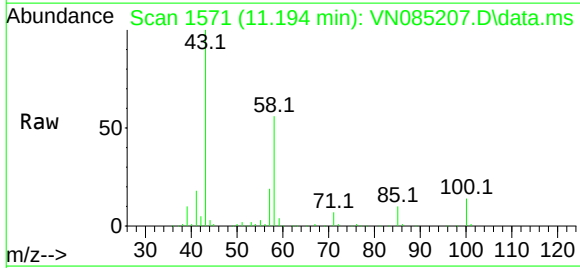
Tgt Ion:	43	Resp:	254378
Ion	Ratio	Lower	Upper
43	100		
58	41.1	31.6	47.4
85	20.2	15.0	22.6





#59
2-Hexanone
Concen: 94.267 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

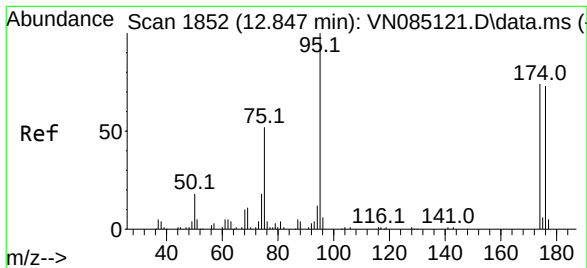
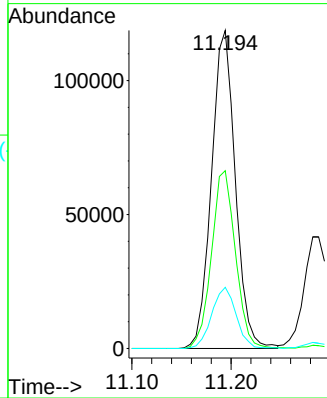
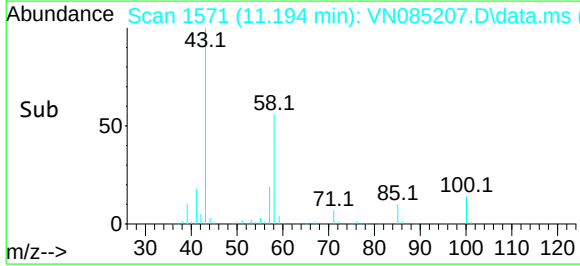
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



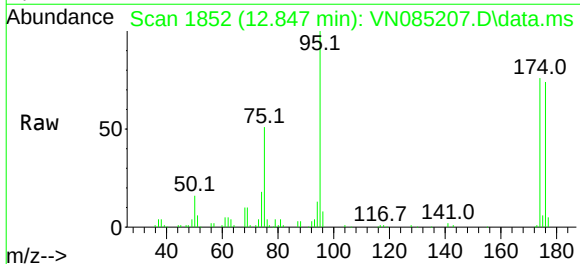
Tgt Ion: 43 Resp: 198443
Ion Ratio Lower Upper
43 100
58 56.2 43.6 65.4
57 19.6 15.4 23.0

Manual Integrations
APPROVED

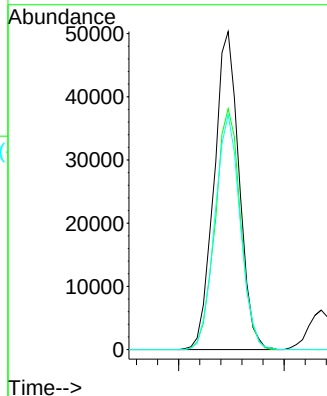
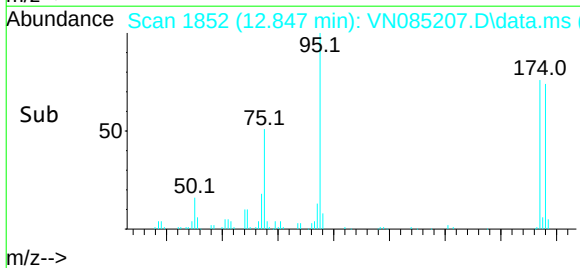
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

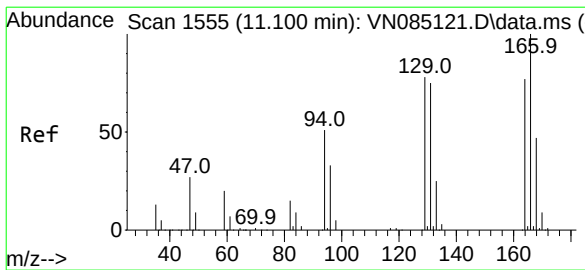


#60
4-Bromofluorobenzene
Concen: 29.423 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42



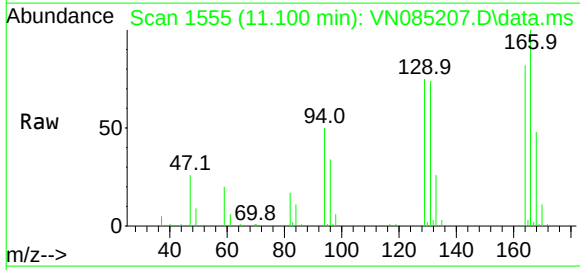
Tgt Ion: 95 Resp: 82875
Ion Ratio Lower Upper
95 100
174 76.4 60.3 90.5
176 74.9 57.4 86.0





#61
Tetrachloroethene
Concen: 19.885 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

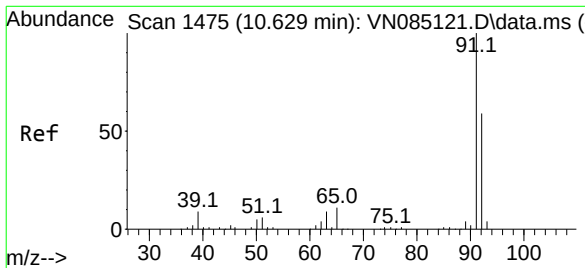
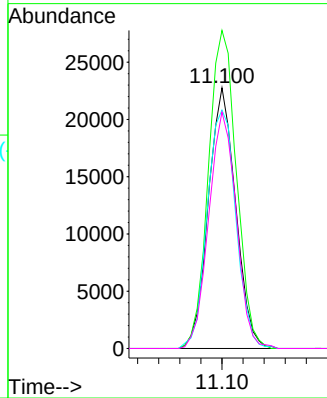
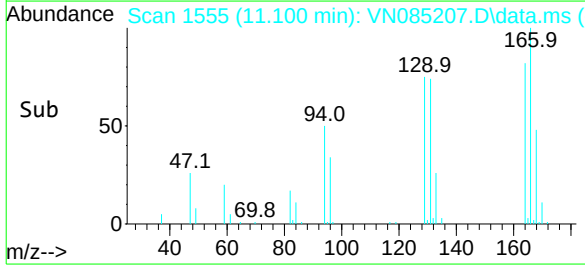
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 164 Resp: 40993
Ion Ratio Lower Upper
164 100
166 122.0 103.8 155.8
129 91.5 84.2 126.4
131 90.7 84.1 126.1

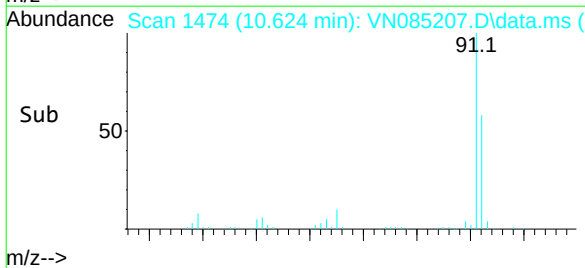
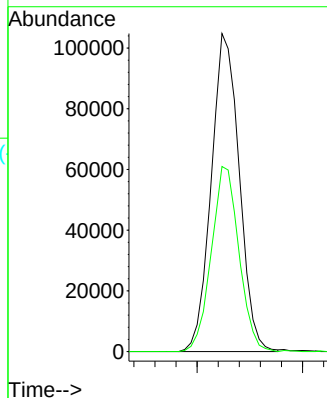
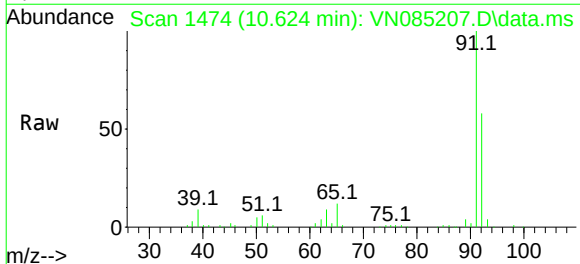
Manual Integrations
APPROVED

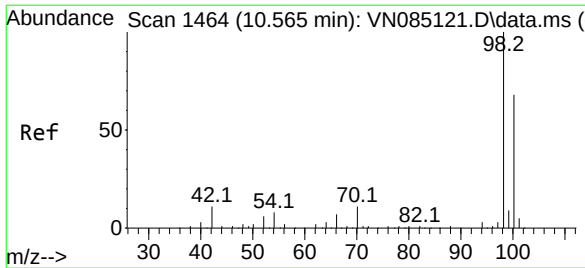
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#62
Toluene
Concen: 19.467 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 91 Resp: 193265
Ion Ratio Lower Upper
91 100
92 57.4 46.5 69.7





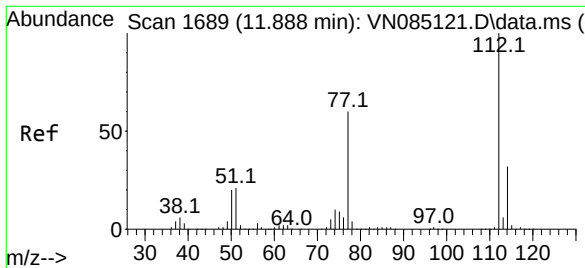
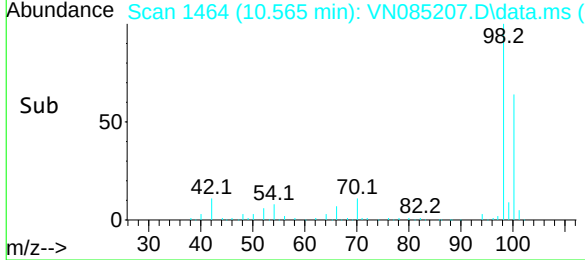
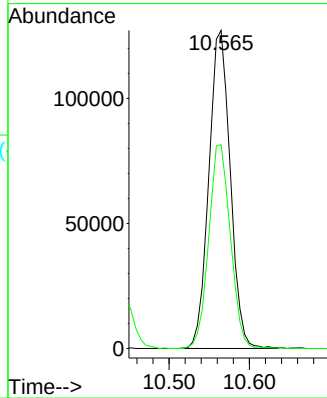
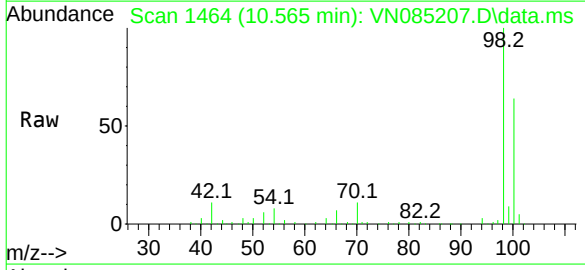
#63
Toluene-d8
Concen: 29.497 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 98 Resp: 235545
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0

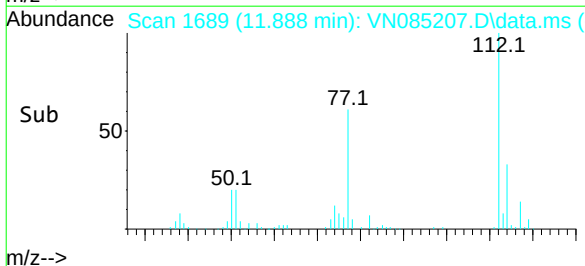
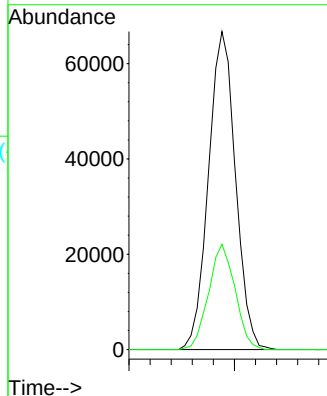
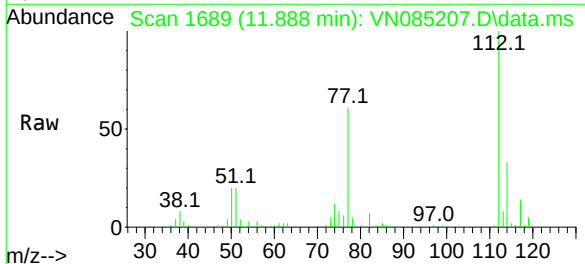
Manual Integrations
APPROVED

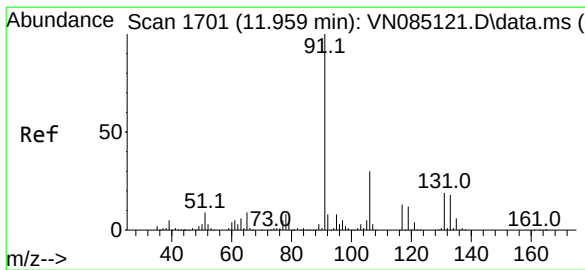
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#64
Chlorobenzene
Concen: 19.419 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

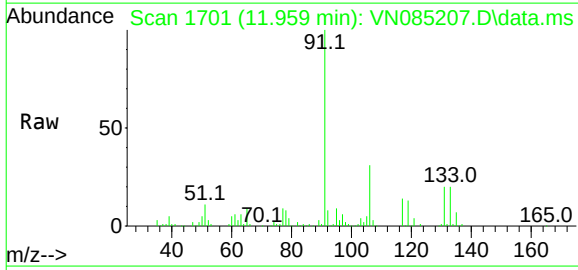
Tgt Ion:112 Resp: 119028
Ion Ratio Lower Upper
112 100
114 33.1 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 19.379 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

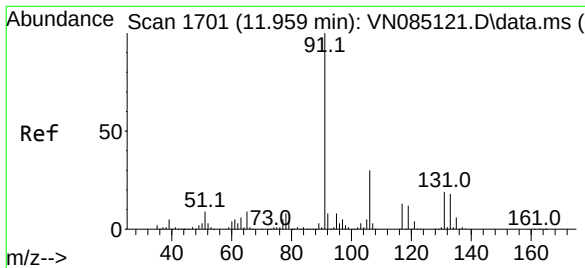
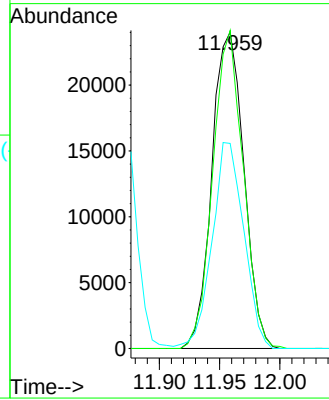
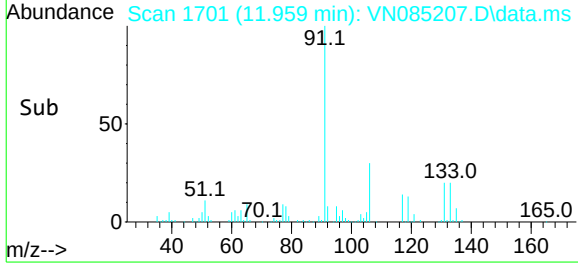
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 131 Resp: 44343
Ion Ratio Lower Upper
131 100
133 95.8 0.0 194.0
119 64.6 0.0 131.8

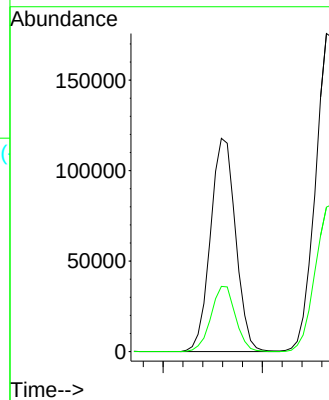
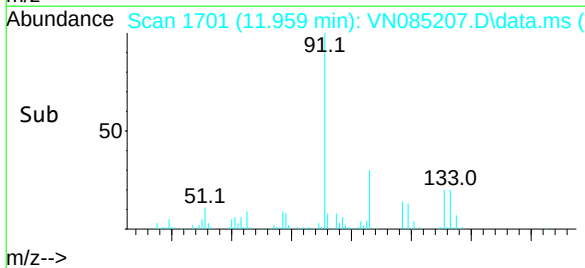
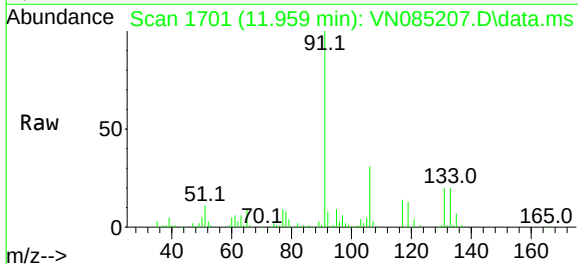
Manual Integrations
APPROVED

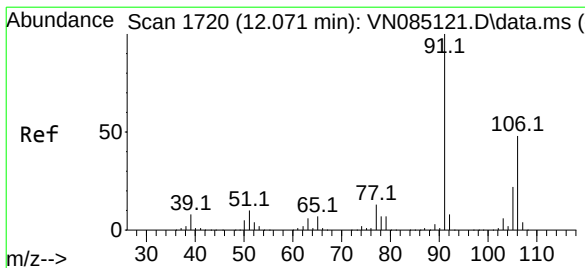
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#66
Ethyl Benzene
Concen: 19.728 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 91 Resp: 207827
Ion Ratio Lower Upper
91 100
106 30.6 23.1 34.7





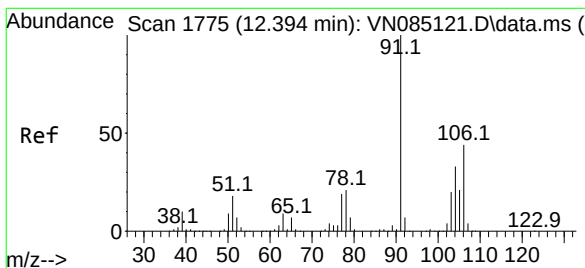
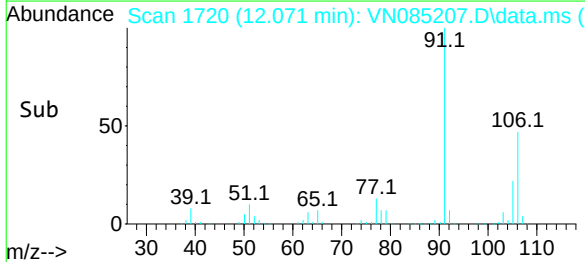
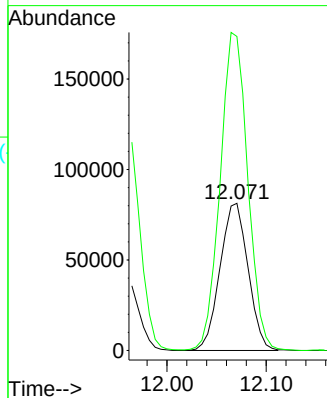
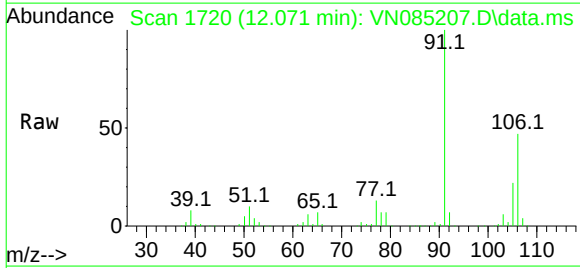
#67
m/p-Xylenes
Concen: 39.379 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:106 Resp: 159560
Ion Ratio Lower Upper
106 100
91 212.7 165.0 247.4

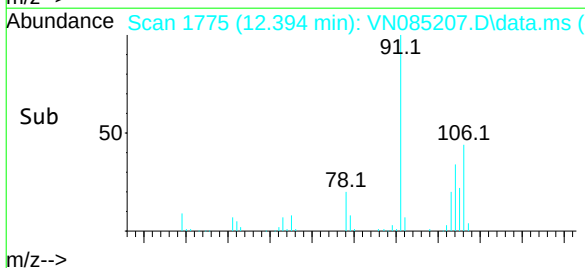
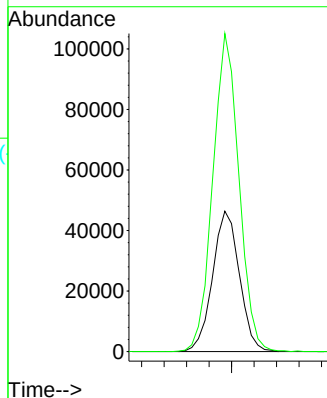
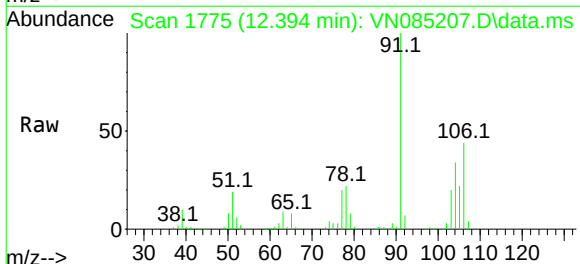
Manual Integrations
APPROVED

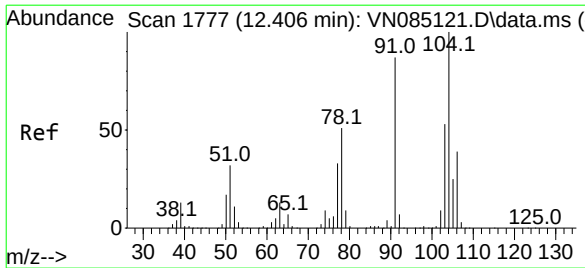
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#68
o-Xylene
Concen: 20.208 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:106 Resp: 76900
Ion Ratio Lower Upper
106 100
91 220.1 112.1 336.4





#69

Styrene

Concen: 19.998 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

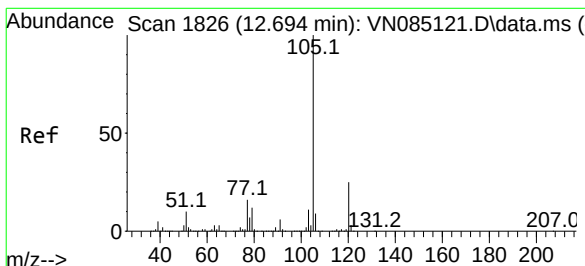
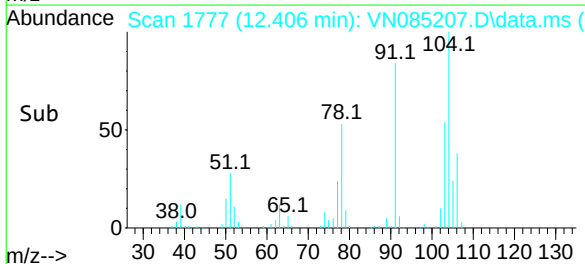
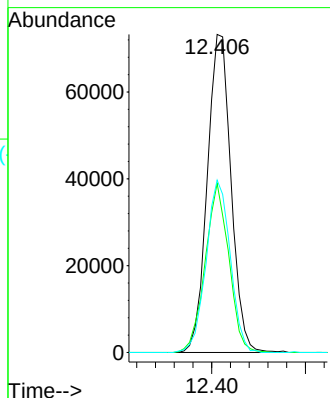
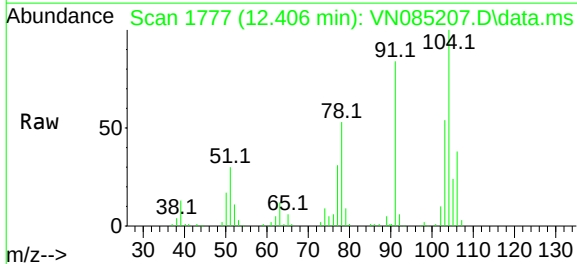
Tgt Ion:	104	Resp:	129131
Ion Ratio	Lower	Upper	
104	100		
78	52.8	42.3	63.5
103	55.1	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#70

Isopropylbenzene

Concen: 20.013 ug/l

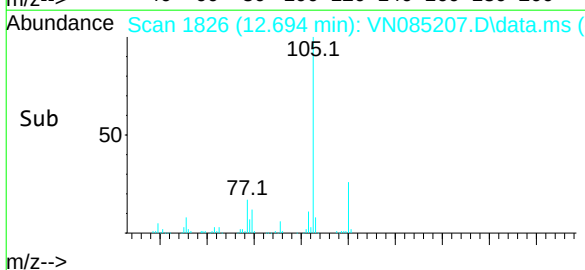
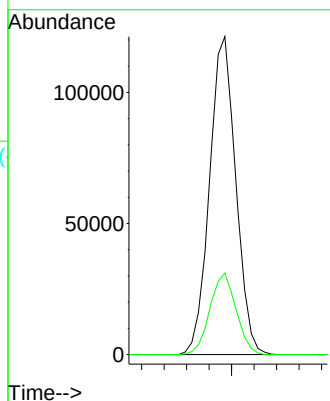
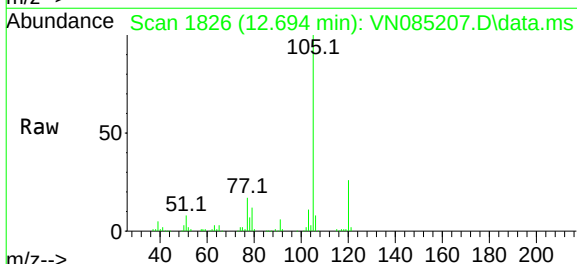
RT: 12.694 min Scan# 1826

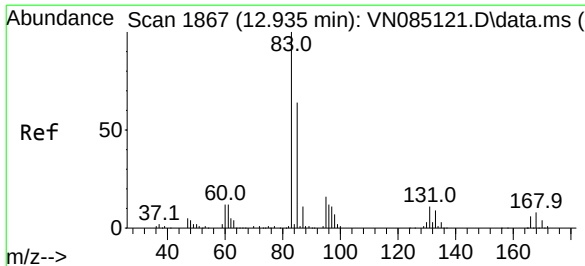
Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Tgt Ion:	105	Resp:	196429
Ion Ratio	Lower	Upper	
105	100		
120	25.5	18.3	33.9





#71

1,1,2,2-Tetrachloroethane

Concen: 18.796 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

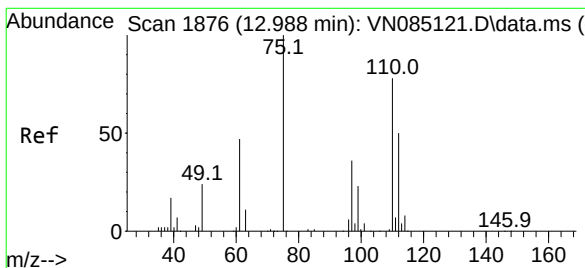
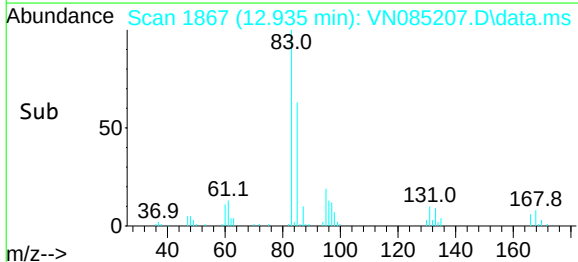
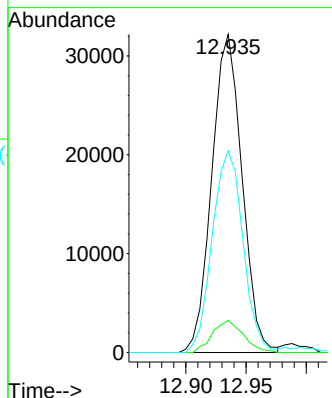
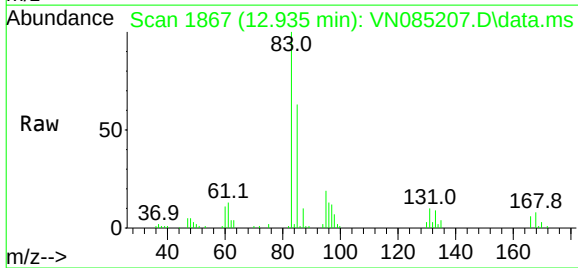
Tgt Ion:	83	Resp:	56150
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	64.2	31.1	93.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#72

1,2,3-Trichloropropane

Concen: 15.346 ug/l m

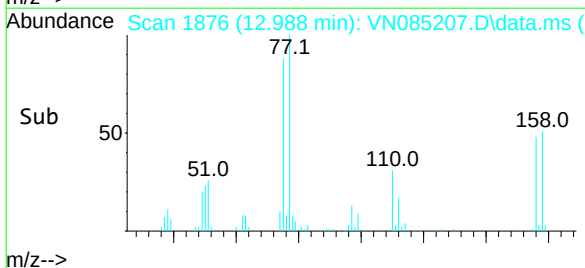
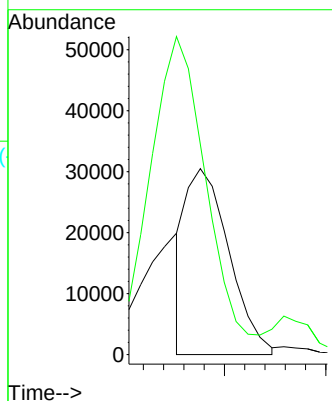
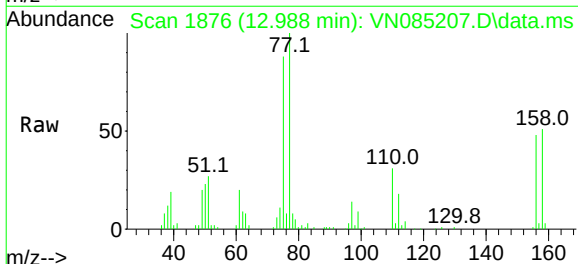
RT: 12.988 min Scan# 1876

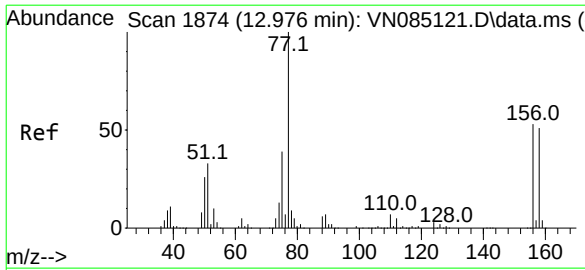
Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Tgt Ion:	75	Resp:	45287
Ion	Ratio	Lower	Upper
75	100		
77	225.6	0.0	339.0





#73

Bromobenzene

Concen: 19.638 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

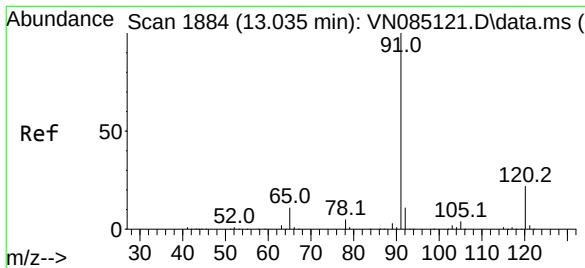
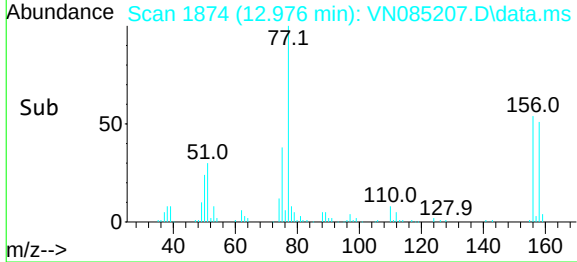
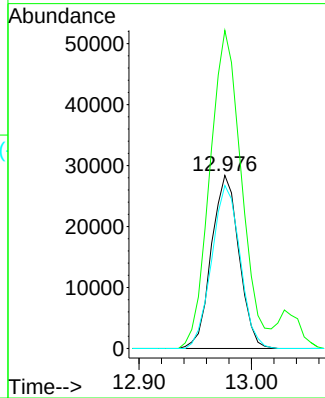
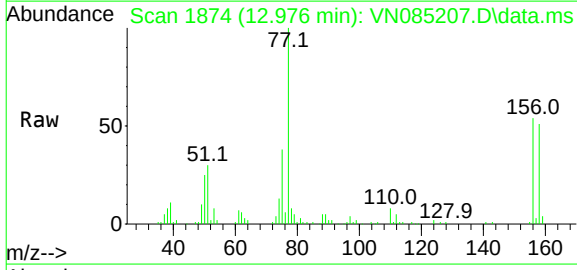
Tgt Ion:	156	Resp:	48280
Ion Ratio	Lower	Upper	
156	100		
77	211.6	0.0	430.4
158	97.0	0.0	195.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#74

n-propylbenzene

Concen: 19.456 ug/l

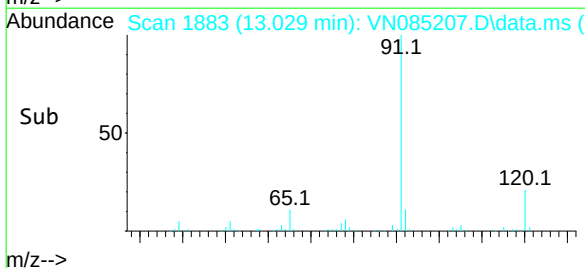
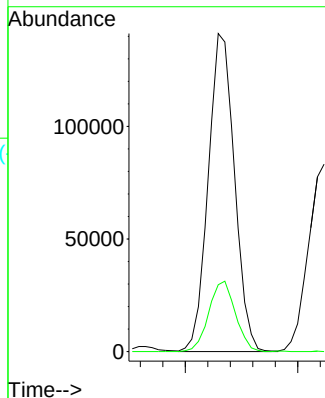
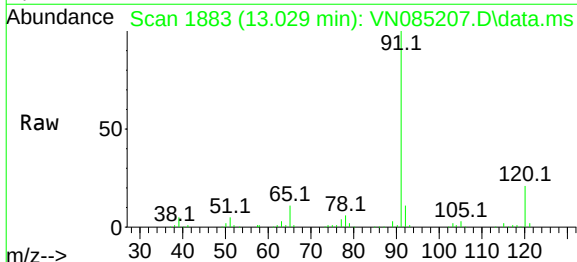
RT: 13.029 min Scan# 1883

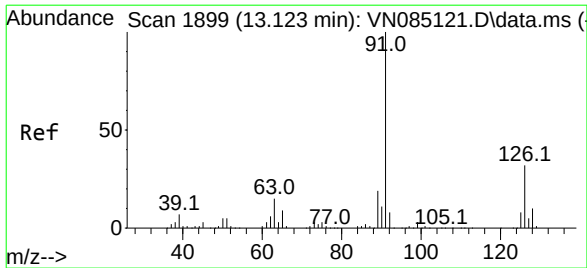
Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Tgt Ion:	91	Resp:	229571
Ion Ratio	Lower	Upper	
91	100		
120	22.3	0.0	44.0





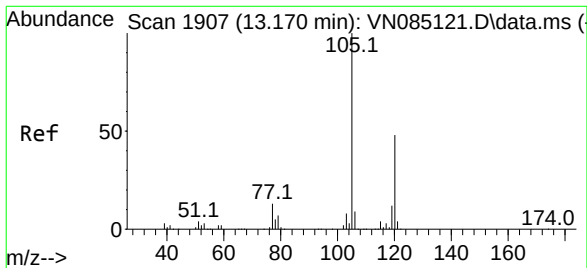
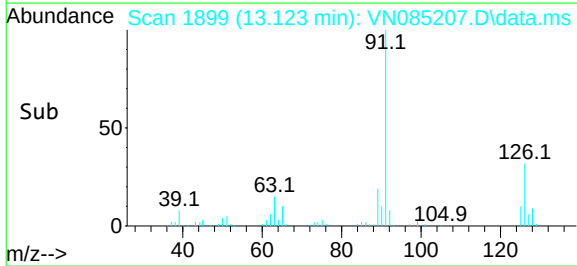
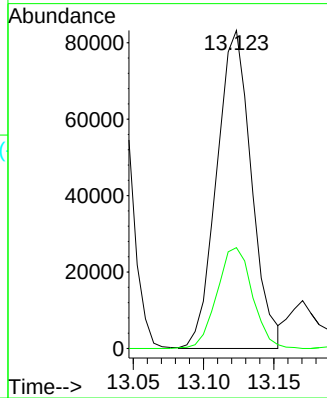
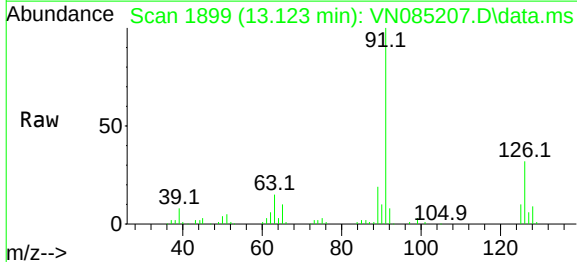
#75
2-Chlorotoluene
Concen: 19.627 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 143192
Ion Ratio Lower Upper
91 100
126 32.3 0.0 64.2

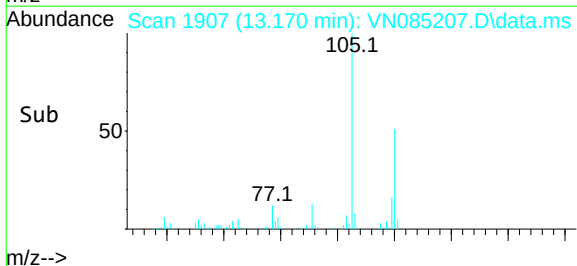
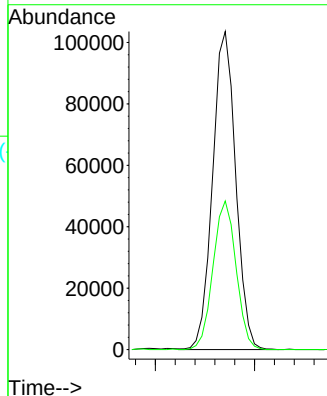
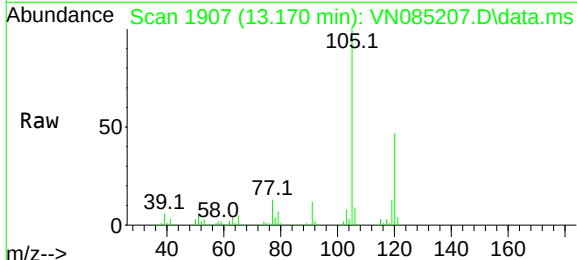
Manual Integrations
APPROVED

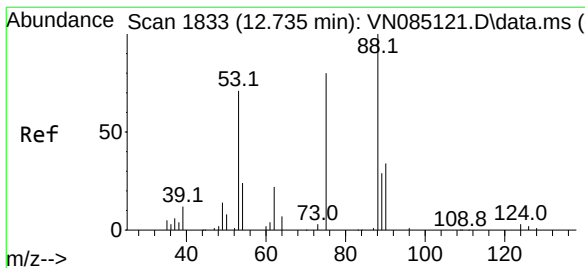
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#76
1,3,5-Trimethylbenzene
Concen: 19.931 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

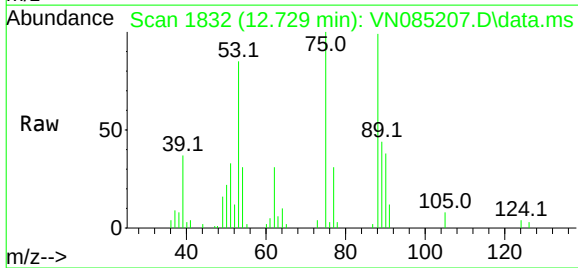
Tgt Ion:105 Resp: 167597
Ion Ratio Lower Upper
105 100
120 46.5 0.0 94.4





#77
t-1,4-Dichloro-2-butene
Concen: 18.888 ug/l
RT: 12.729 min Scan# 1833
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

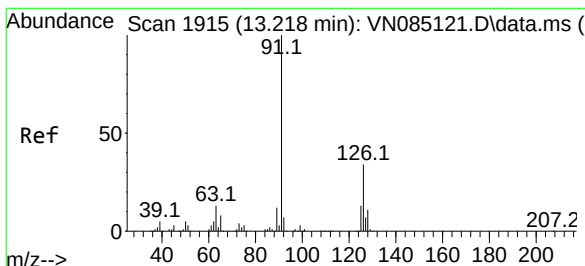
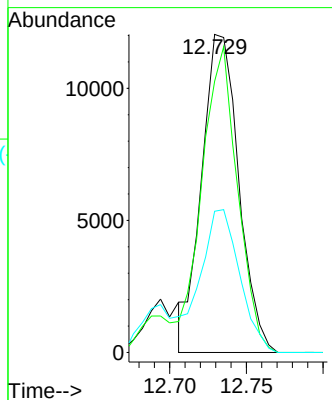
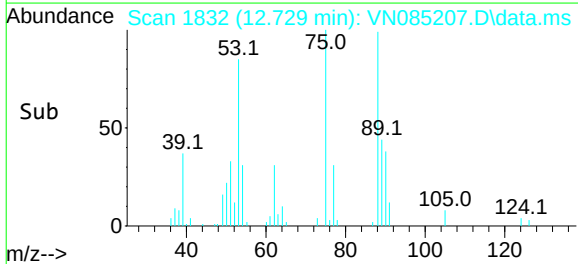
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 75 Resp: 20254
Ion Ratio Lower Upper
75 100
53 85.3 49.1 147.3
89 44.4 22.9 68.5

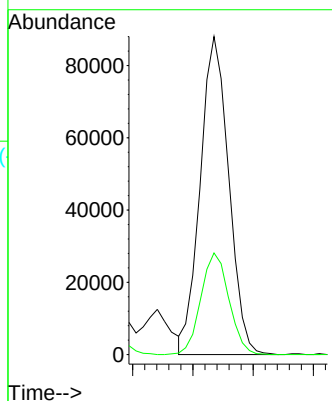
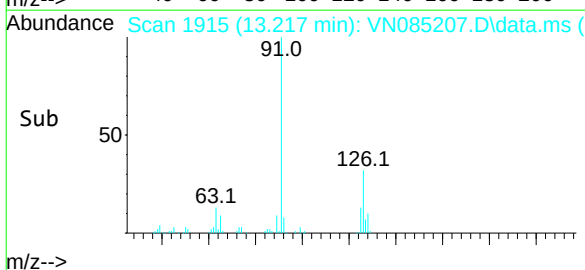
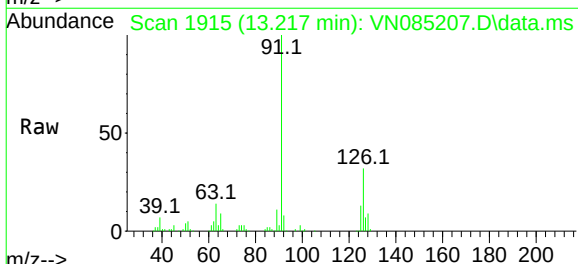
Manual Integrations
APPROVED

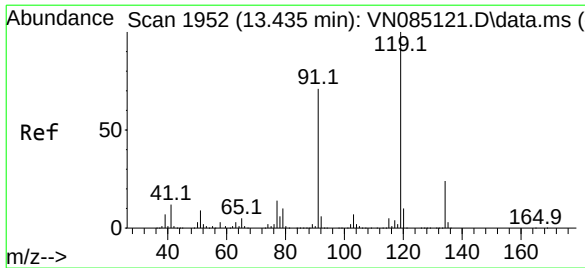
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#78
4-Chlorotoluene
Concen: 19.557 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 91 Resp: 144822
Ion Ratio Lower Upper
91 100
126 31.4 0.0 64.4





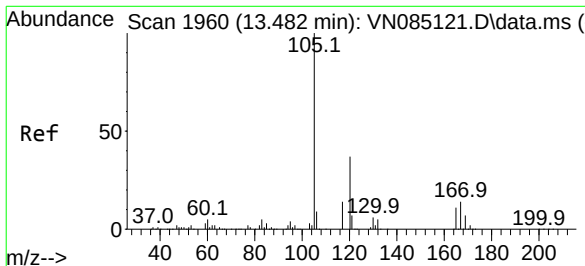
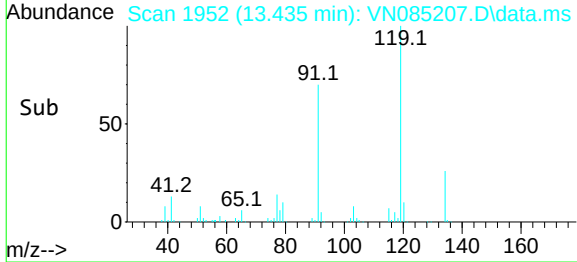
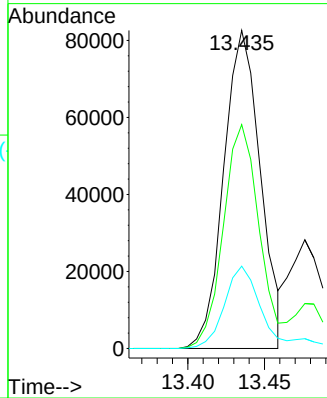
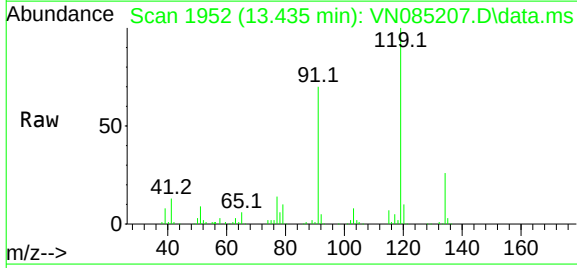
#79
tert-butylbenzene
Concen: 19.890 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:119 Resp: 137376
Ion Ratio Lower Upper
119 100
91 68.0 0.0 139.2
134 24.8 0.0 48.0

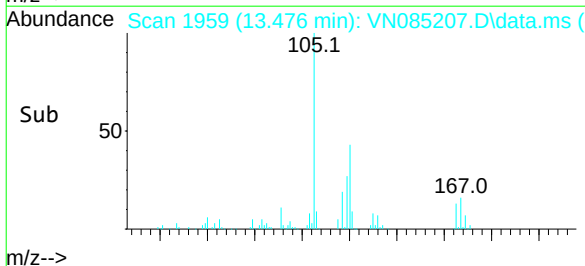
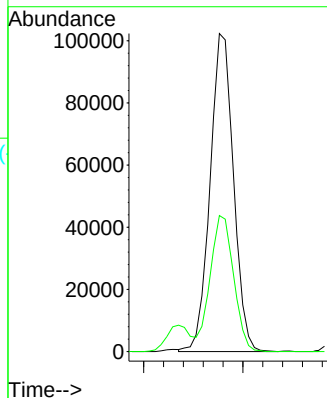
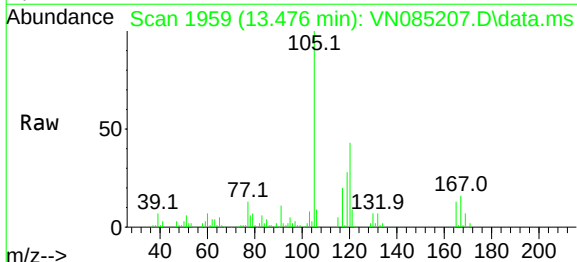
Manual Integrations
APPROVED

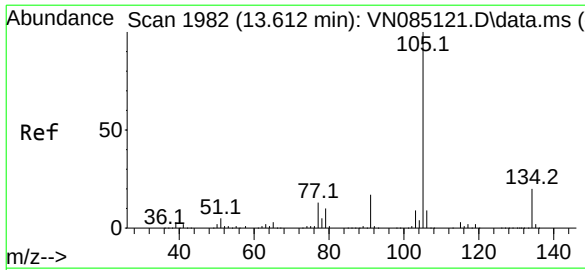
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#80
1,2,4-Trimethylbenzene
Concen: 20.193 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:105 Resp: 167722
Ion Ratio Lower Upper
105 100
120 42.7 0.0 87.4





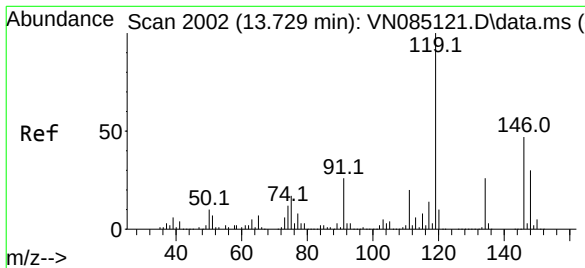
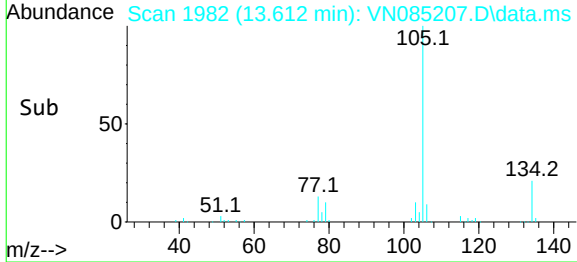
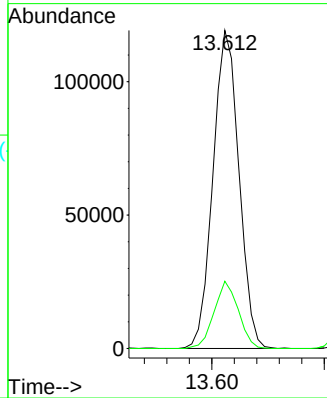
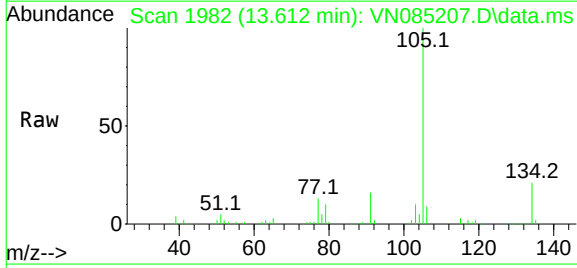
#81
sec-Butylbenzene
Concen: 19.466 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:105 Resp: 191002
Ion Ratio Lower Upper
105 100
134 19.8 0.0 38.0

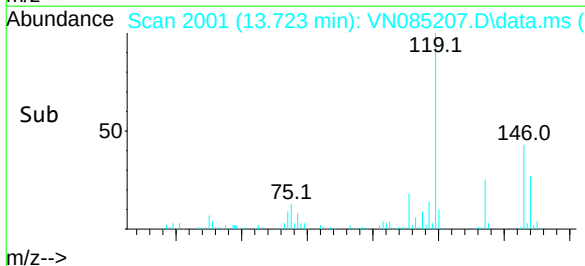
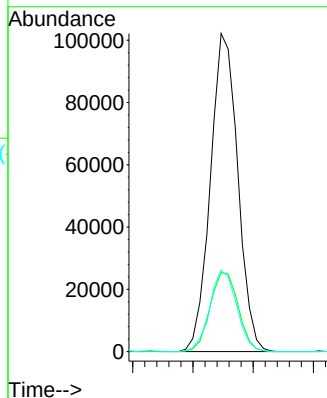
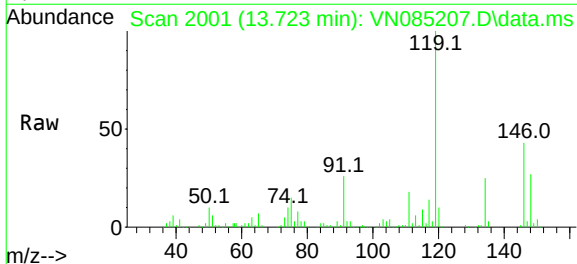
Manual Integrations
APPROVED

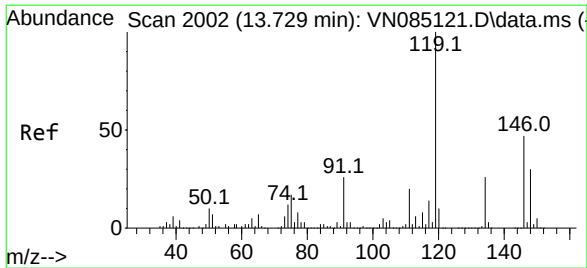
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#82
p-Isopropyltoluene
Concen: 19.841 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:119 Resp: 161402
Ion Ratio Lower Upper
119 100
134 25.6 0.0 51.6
91 25.1 0.0 50.4





#83

1,3-Dichlorobenzene

Concen: 19.150 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

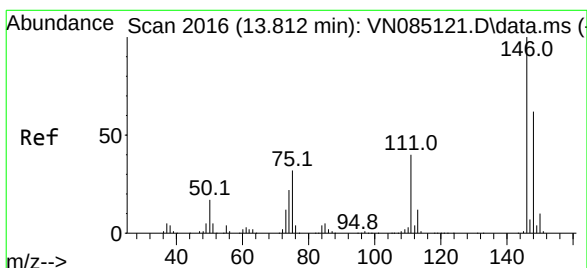
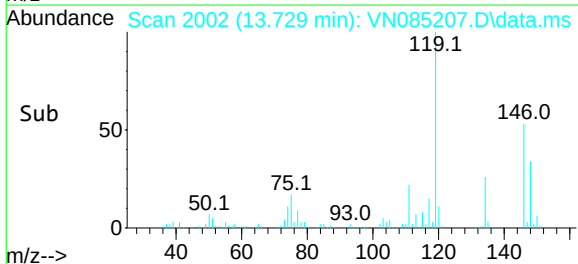
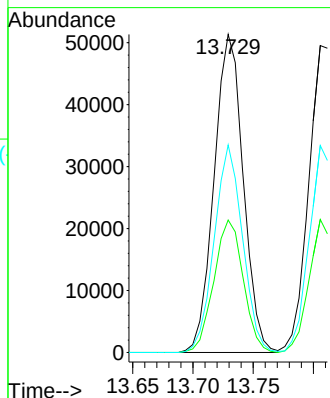
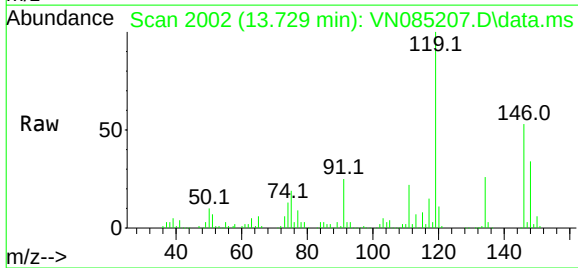
ClientSampleId :

VSTDCCC020

Tgt Ion:	146	Resp:	86373
Ion Ratio	Lower	Upper	
146	100		
111	41.9	21.1	63.3
148	63.3	31.8	95.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#84

1,4-Dichlorobenzene

Concen: 19.386 ug/l

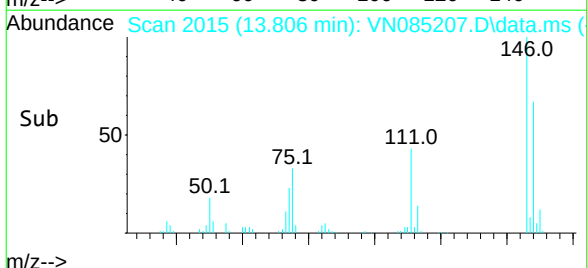
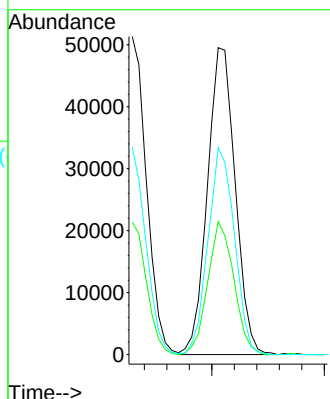
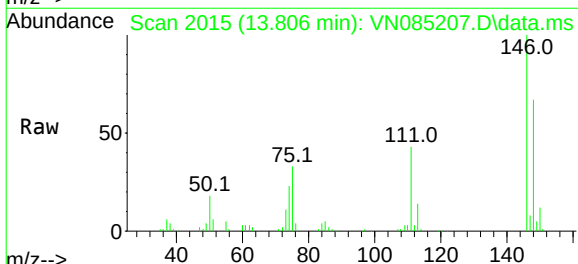
RT: 13.806 min Scan# 2015

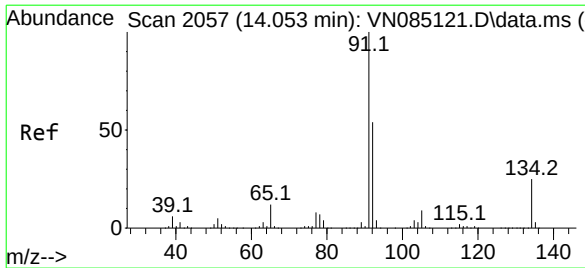
Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Tgt Ion:	146	Resp:	85216
Ion Ratio	Lower	Upper	
146	100		
111	40.6	20.1	60.3
148	64.3	31.6	94.7





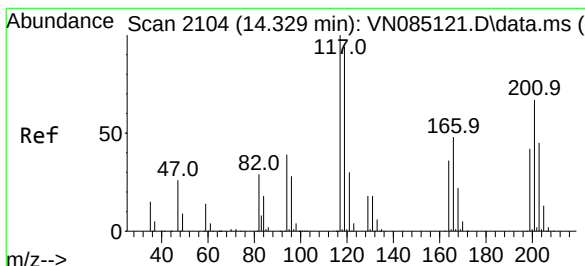
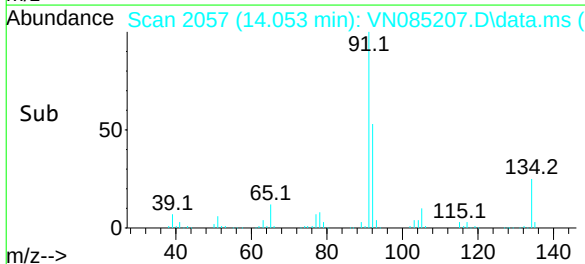
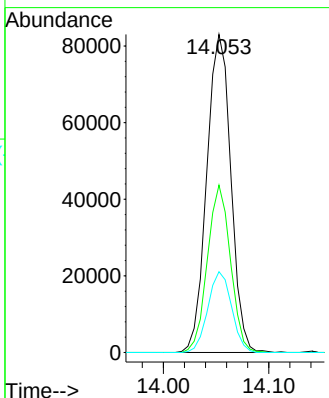
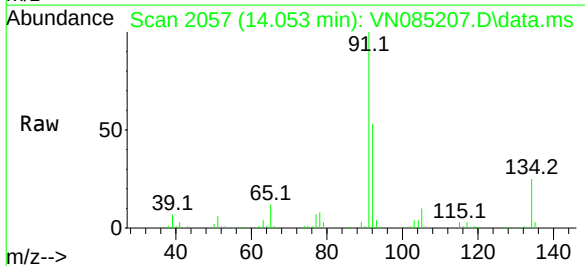
#85
n-Butylbenzene
Concen: 19.359 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 132097
Ion Ratio Lower Upper
91 100
92 50.3 0.0 104.0
134 24.9 0.0 49.2

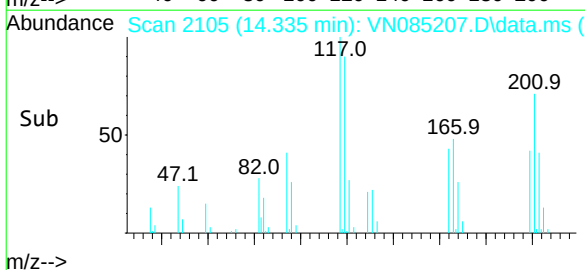
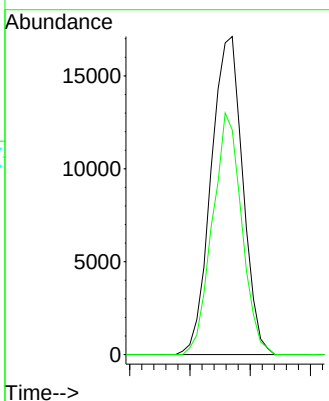
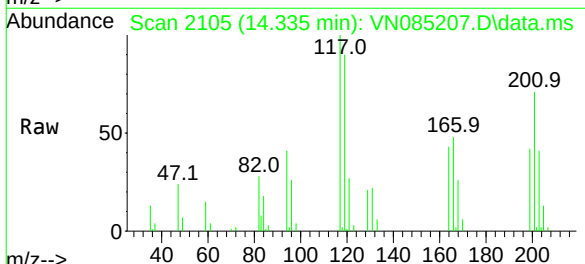
Manual Integrations
APPROVED

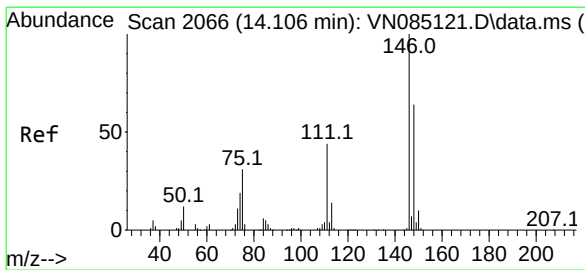
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#86
Hexachloroethane
Concen: 19.297 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:117 Resp: 31250
Ion Ratio Lower Upper
117 100
201 70.2 34.1 102.3





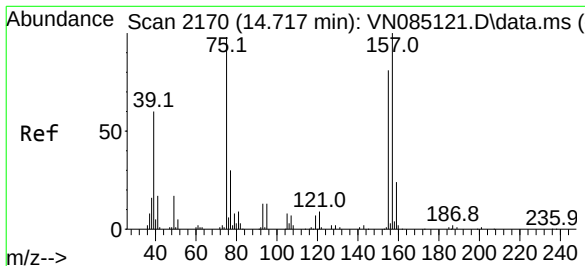
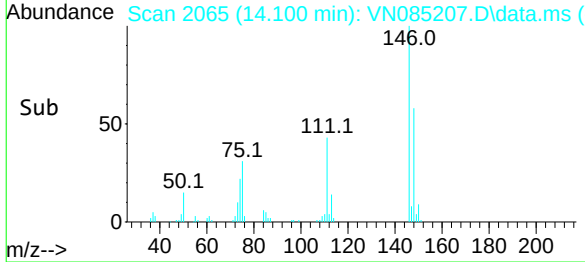
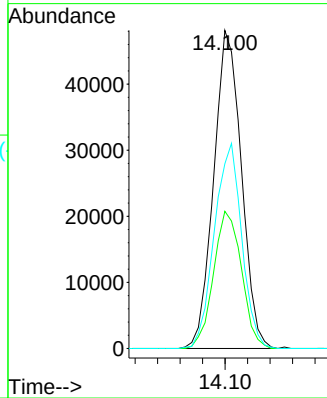
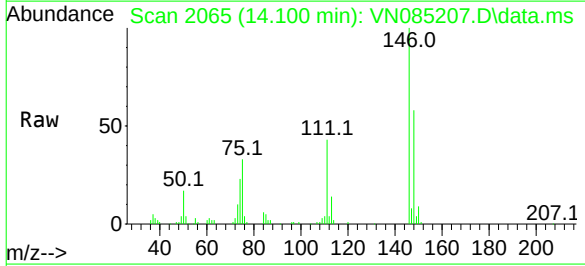
#87
1,2-Dichlorobenzene
Concen: 19.338 ug/l
RT: 14.100 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.9	65.7
148	63.8	32.4	97.0

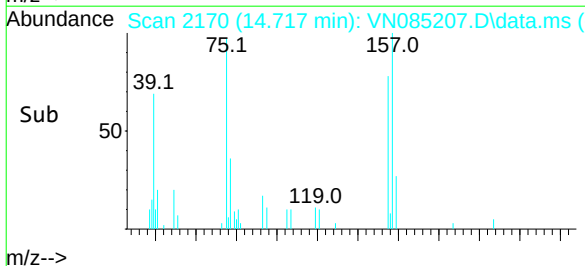
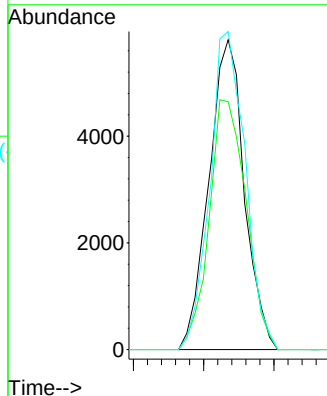
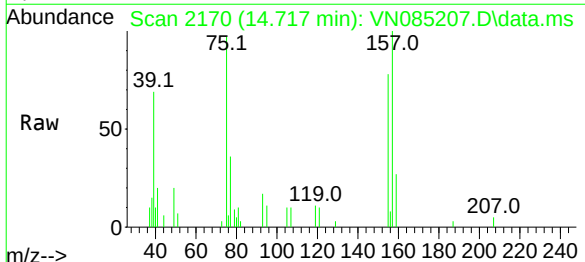
Manual Integrations
APPROVED

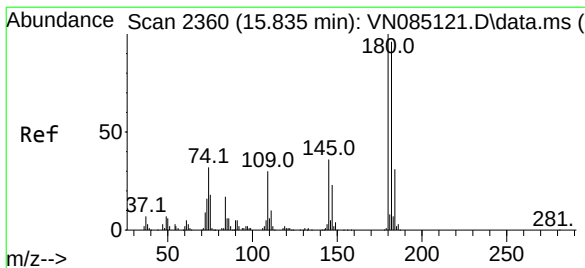
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 17.026 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.2	62.1	93.1
157	102.2	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 19.190 ug/l

RT: 15.835 min Scan# 23

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

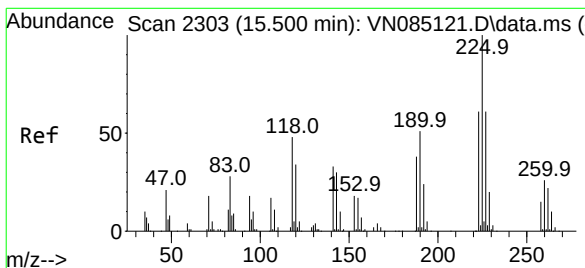
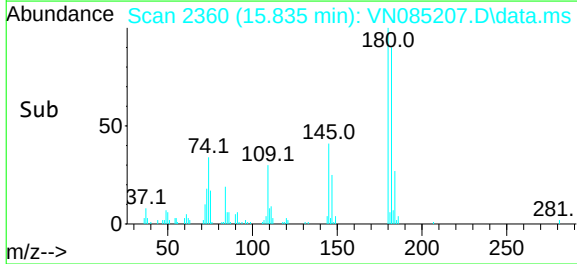
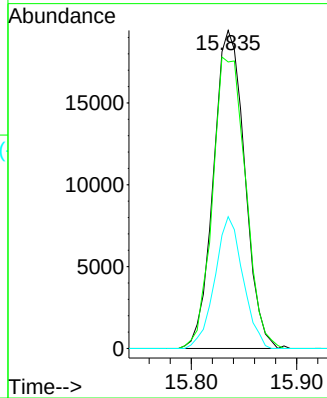
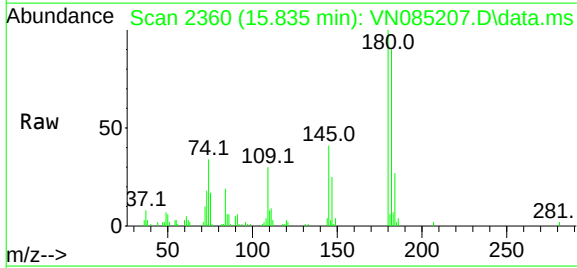
Tgt Ion:	180	Resp:	40011
Ion Ratio	Lower	Upper	
180	100		
182	96.5	74.0	111.0
145	37.4	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#90

Hexachlorobutadiene

Concen: 19.995 ug/l

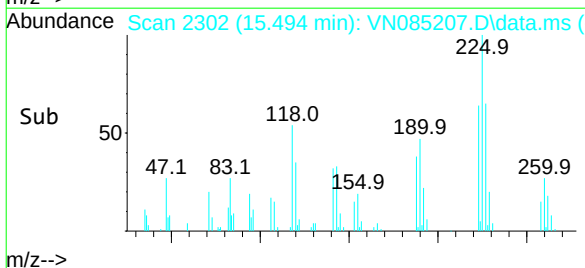
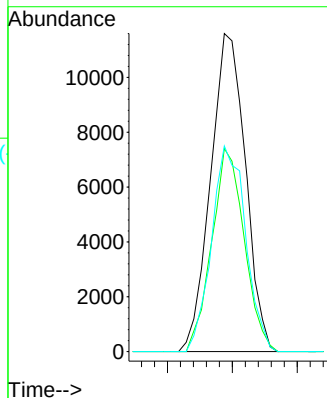
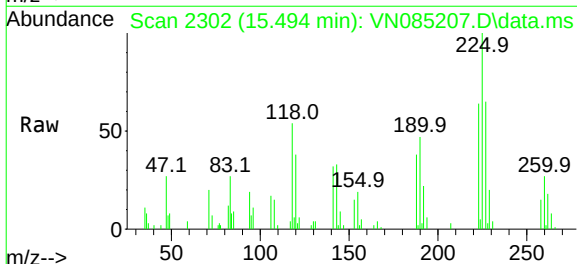
RT: 15.494 min Scan# 2302

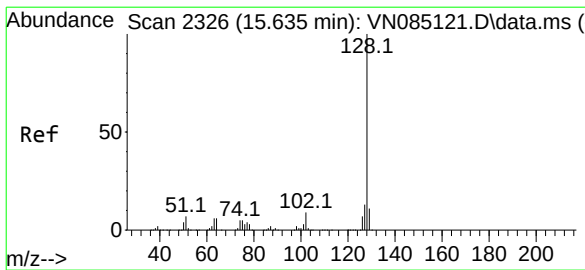
Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Tgt Ion:	225	Resp:	21664
Ion Ratio	Lower	Upper	
225	100		
223	59.5	0.0	121.8
227	63.0	0.0	126.8





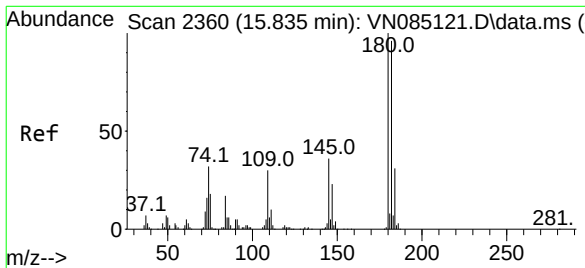
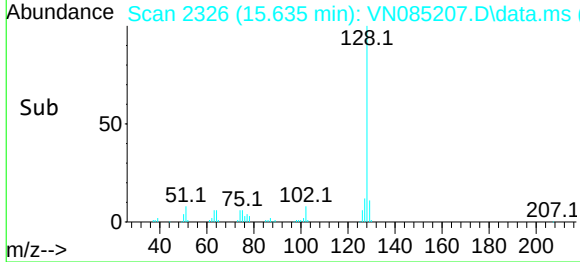
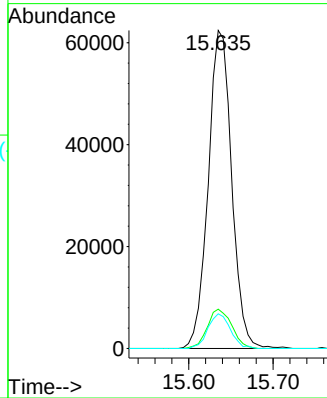
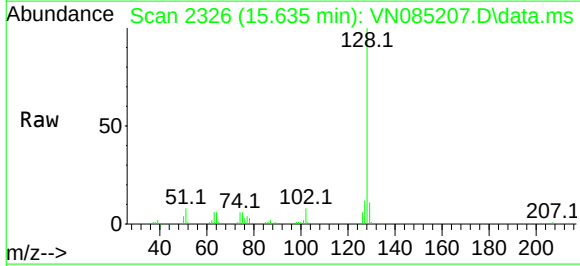
#91
Naphthalene
Concen: 18.602 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:	128	Resp:	120498
Ion Ratio	Lower	Upper	
128	100		
127	12.9	11.0	16.4
129	10.5	8.7	13.1

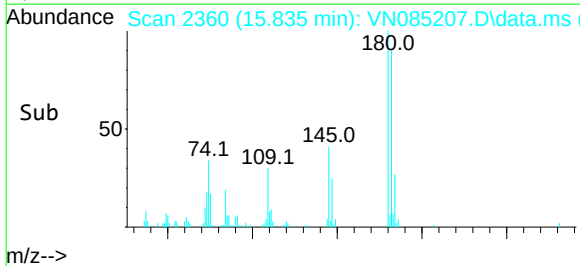
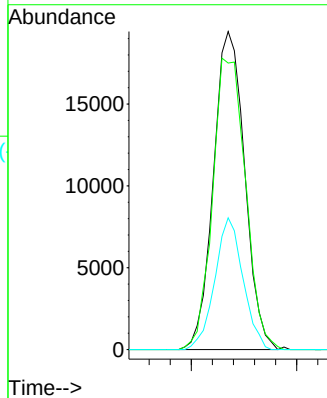
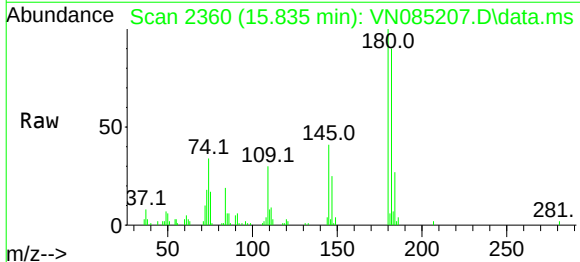
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#92
1,2,3-Trichlorobenzene
Concen: 19.190 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:	180	Resp:	40011
Ion Ratio	Lower	Upper	
180	100		
182	96.5	0.0	185.0
145	37.4	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	107	0.00
2 M	Dichlorodifluoromethane	2.400	2.526	-5.2	109	0.00
3 M	Chloromethane	2.124	2.227	-4.8	114	0.00
4 M	Vinyl Chloride	2.173	2.251	-3.6	112	0.00
5 M	Bromomethane	1.380	1.402	-1.6	112	0.00
6 M	Chloroethane	1.335	1.437	-7.6	118	0.00
7 M	Trichlorofluoromethane	3.557	3.724	-4.7	115	0.00
8 T	Diethyl Ether	1.127	1.136	-0.8	116	0.00
9	1,1,2-Trichlorotrifluoroeth	1.989	2.005	-0.8	111	0.00
10 M	1,1-Dichloroethene	1.827	1.847	-1.1	113	0.00
11	Methyl Iodide	2.534	2.157	14.9	98	0.00
12	Methyl Acetate	2.155	2.103	2.4	109	0.00
13 M	Acrolein	0.313	0.235	24.9	98	0.00
14 M	Acrylonitrile	0.895	0.853	4.7	109	0.00
15 M	Acetone	0.243	0.258	-6.2	121	0.00
16 M	Carbon Disulfide	5.461	5.505	-0.8	110	0.00
17	Allyl chloride	2.614	2.670	-2.1	119	0.00
18 M	Methylene Chloride	2.073	2.023	2.4	107	0.00
19 M	trans-1,2-Dichloroethene	1.899	1.907	-0.4	113	0.00
20 T	Diisopropyl ether	5.737	5.917	-3.1	111	0.00
21 M	1,1-Dichloroethane	3.541	3.578	-1.0	112	0.00
22 M	cis-1,2-Dichloroethene	2.183	2.239	-2.6	113	-0.01
23 M	tert-Butyl Alcohol	0.321	0.293	8.7	107	0.00
24 M	Methyl tert-Butyl Ether	5.708	5.845	-2.4	115	0.00
25 M	Chloroform	3.710	3.808	-2.6	112	0.00
26	Cyclohexane	2.916	2.926	-0.3	107	0.00
27 s	1,2-Dichloroethane-d4	2.380	2.398	-0.8	107	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	115	0.00
29	1,1-Dichloropropene	0.484	0.466	3.7	111	0.00
30 M	2-Butanone	0.222	0.210	5.4	111	0.00
31	2,2-Dichloropropane	0.621	0.615	1.0	116	0.00
32 M	1,1,1-Trichloroethane	0.655	0.631	3.7	109	0.00
33 M	Carbon Tetrachloride	0.591	0.558	5.6	109	0.00
34 M	Benzene	1.521	1.463	3.8	112	0.00
35	Methacrylonitrile	0.250	0.227	9.2	104	0.00
36 M	1,2-Dichloroethane	0.518	0.501	3.3	114	0.00
37 M	Trichloroethene	0.362	0.361	0.3	116	0.00
38	Methylcyclohexane	0.526	0.500	4.9	119	0.00
39 M	1,2-Dichloropropane	0.368	0.353	4.1	109	0.00
40	Dibromomethane	0.264	0.255	3.4	110	0.00
41 M	Bromodichloromethane	0.565	0.546	3.4	113	0.00
42 M	Vinyl Acetate	0.777	0.761	2.1	117	0.00
43	Ethyl Acetate	0.442	0.399	9.7	113	0.00
44	Isopropyl Acetate	0.768	0.718	6.5	110	0.00
45 T	1,4-Dioxane	0.006	0.006	0.0	112	0.00
46	Methyl methacrylate	0.352	0.327	7.1	109	0.00
47	n-amyl Acetate	0.646	0.593	8.2	110	0.00
48 M	t-1,3-Dichloropropene	0.554	0.532	4.0	118	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.604	0.590	2.3	115	0.00
50 M	1,1,2-Trichloroethane	0.356	0.344	3.4	111	0.00
51	Ethyl methacrylate	0.542	0.503	7.2	114	0.00
52	1,3-Dichloropropane	0.596	0.572	4.0	112	0.00
53 M	Dibromochloromethane	0.434	0.412	5.1	111	0.00
54 M	1,2-Dibromoethane	0.359	0.343	4.5	113	0.00
55 M	2-Chloroethyl vinyl ether	0.252	0.197	21.8	91	0.00
56 M	Bromoform	0.291	0.271	6.9	113	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
58 M	4-Methyl-2-Pentanone	0.490	0.448	8.6	102	0.00
59 M	2-Hexanone	0.371	0.350	5.7	104	0.00
60 S	4-Bromofluorobenzene	0.496	0.487	1.8	110	0.00
61 M	Tetrachloroethene	0.363	0.361	0.6	113	0.00
62 M	Toluene	1.750	1.703	2.7	111	0.00
63 S	Toluene-d8	1.407	1.384	1.6	108	0.00
64 M	Chlorobenzene	1.080	1.049	2.9	111	0.00
65	1,1,1,2-Tetrachloroethane	0.403	0.391	3.0	114	0.00
66 M	Ethyl Benzene	1.857	1.831	1.4	118	0.00
67 M	m/p-Xylenes	0.714	0.703	1.5	111	0.00
68 M	o-Xylene	0.671	0.678	-1.0	117	0.00
69 M	Styrene	1.138	1.138	0.0	116	0.00
70	Isopropylbenzene	1.730	1.731	-0.1	117	0.00
71 M	1,1,2,2-Tetrachloroethane	0.526	0.495	5.9	104	0.00
72	1,2,3-Trichloropropane	0.520	0.399	23.3	84	0.00
73	Bromobenzene	0.433	0.425	1.8	114	0.00
74	n-propylbenzene	2.079	2.023	2.7	112	0.00
75	2-Chlorotoluene	1.286	1.262	1.9	111	0.00
76	1,3,5-Trimethylbenzene	1.482	1.477	0.3	115	0.00
77	t-1,4-Dichloro-2-butene	0.189	0.178	5.8	112	0.00
78	4-Chlorotoluene	1.305	1.276	2.2	113	0.00
79	tert-butylbenzene	1.217	1.210	0.6	116	0.00
80	1,2,4-Trimethylbenzene	1.464	1.478	-1.0	116	0.00
81	sec-Butylbenzene	1.729	1.683	2.7	113	0.00
82	p-Isopropyltoluene	1.434	1.422	0.8	116	0.00
83 M	1,3-Dichlorobenzene	0.795	0.761	4.3	112	0.00
84 M	1,4-Dichlorobenzene	0.775	0.751	3.1	113	0.00
85	n-Butylbenzene	1.203	1.164	3.2	120	0.00
86 T	Hexachloroethane	0.285	0.275	3.5	112	0.00
87 M	1,2-Dichlorobenzene	0.750	0.725	3.3	113	0.00
88	1,2-Dibromo-3-Chloropropane	0.105	0.090	14.3	97	0.00
89	1,2,4-Trichlorobenzene	0.367	0.353	3.8	116	0.00
90	Hexachlorobutadiene	0.191	0.191	0.0	117	0.00
91 M	Naphthalene	1.142	1.062	7.0	123	0.00
92	1,2,3-Trichlorobenzene	0.367	0.353	3.8	116	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	107	0.00
2 M	Dichlorodifluoromethane	20.000	21.047	-5.2	109	0.00
3 M	Chloromethane	20.000	20.963	-4.8	114	0.00
4 M	Vinyl Chloride	20.000	20.717	-3.6	112	0.00
5 M	Bromomethane	20.000	20.321	-1.6	112	0.00
6 M	Chloroethane	20.000	21.532	-7.7	118	0.00
7 M	Trichlorofluoromethane	20.000	20.940	-4.7	115	0.00
8 T	Diethyl Ether	20.000	20.165	-0.8	116	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.159	-0.8	111	0.00
10 M	1,1-Dichloroethene	20.000	20.219	-1.1	113	0.00
11	Methyl Iodide	20.000	17.027	14.9	98	0.00
12	Methyl Acetate	20.000	19.513	2.4	109	0.00
13 M	Acrolein	100.000	75.017	25.0	98	0.00
14 M	Acrylonitrile	100.000	95.305	4.7	109	0.00
15 M	Acetone	100.000	106.386	-6.4	121	0.00
16 M	Carbon Disulfide	20.000	20.161	-0.8	110	0.00
17	Allyl chloride	20.000	20.428	-2.1	119	0.00
18 M	Methylene Chloride	20.000	19.515	2.4	107	0.00
19 M	trans-1,2-Dichloroethene	20.000	20.081	-0.4	113	0.00
20 T	Diisopropyl ether	20.000	20.625	-3.1	111	0.00
21 M	1,1-Dichloroethane	20.000	20.207	-1.0	112	0.00
22 M	cis-1,2-Dichloroethene	20.000	20.511	-2.6	113	-0.01
23 M	tert-Butyl Alcohol	100.000	91.223	8.8	107	0.00
24 M	Methyl tert-Butyl Ether	20.000	20.480	-2.4	115	0.00
25 M	Chloroform	20.000	20.530	-2.7	112	0.00
26	Cyclohexane	20.000	20.069	-0.3	107	0.00
27 s	1,2-Dichloroethane-d4	30.000	30.226	-0.8	107	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	115	0.00
29	1,1-Dichloropropene	20.000	19.254	3.7	111	0.00
30 M	2-Butanone	100.000	94.489	5.5	111	0.00
31	2,2-Dichloropropane	20.000	19.826	0.9	116	0.00
32 M	1,1,1-Trichloroethane	20.000	19.264	3.7	109	0.00
33 M	Carbon Tetrachloride	20.000	18.888	5.6	109	0.00
34 M	Benzene	20.000	19.246	3.8	112	0.00
35	Methacrylonitrile	20.000	18.152	9.2	104	0.00
36 M	1,2-Dichloroethane	20.000	19.368	3.2	114	0.00
37 M	Trichloroethene	20.000	19.949	0.3	116	0.00
38	Methylcyclohexane	20.000	19.000	5.0	119	0.00
39 M	1,2-Dichloropropane	20.000	19.143	4.3	109	0.00
40	Dibromomethane	20.000	19.271	3.6	110	0.00
41 M	Bromodichloromethane	20.000	19.343	3.3	113	0.00
42 M	Vinyl Acetate	100.000	97.906	2.1	117	0.00
43	Ethyl Acetate	20.000	18.066	9.7	113	0.00
44	Isopropyl Acetate	20.000	18.694	6.5	110	0.00
45 T	1,4-Dioxane	400.000	392.939	1.8	112	0.00
46	Methyl methacrylate	20.000	18.632	6.8	109	0.00
47	n-amyl Acetate	20.000	18.361	8.2	110	0.00
48 M	t-1,3-Dichloropropene	20.000	19.202	4.0	118	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	19.544	2.3	115	0.00
50 M	1,1,2-Trichloroethane	20.000	19.311	3.4	111	0.00
51	Ethyl methacrylate	20.000	18.569	7.2	114	0.00
52	1,3-Dichloropropane	20.000	19.192	4.0	112	0.00
53 M	Dibromochloromethane	20.000	18.970	5.2	111	0.00
54 M	1,2-Dibromoethane	20.000	19.116	4.4	113	0.00
55 M	2-Chloroethyl vinyl ether	100.000	78.348	21.7	91	0.00
56 M	Bromoform	20.000	18.650	6.8	113	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	112	0.00
58 M	4-Methyl-2-Pentanone	100.000	91.560	8.4	102	0.00
59 M	2-Hexanone	100.000	94.267	5.7	104	0.00
60 S	4-Bromofluorobenzene	30.000	29.423	1.9	110	0.00
61 M	Tetrachloroethene	20.000	19.885	0.6	113	0.00
62 M	Toluene	20.000	19.467	2.7	111	0.00
63 S	Toluene-d8	30.000	29.497	1.7	108	0.00
64 M	Chlorobenzene	20.000	19.419	2.9	111	0.00
65	1,1,1,2-Tetrachloroethane	20.000	19.379	3.1	114	0.00
66 M	Ethyl Benzene	20.000	19.728	1.4	118	0.00
67 M	m/p-Xylenes	40.000	39.379	1.6	111	0.00
68 M	o-Xylene	20.000	20.208	-1.0	117	0.00
69 M	Styrene	20.000	19.998	0.0	116	0.00
70	Isopropylbenzene	20.000	20.013	-0.1	117	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	18.796	6.0	104	0.00
72	1,2,3-Trichloropropane	20.000	15.346	23.3	84	0.00
73	Bromobenzene	20.000	19.638	1.8	114	0.00
74	n-propylbenzene	20.000	19.456	2.7	112	0.00
75	2-Chlorotoluene	20.000	19.627	1.9	111	0.00
76	1,3,5-Trimethylbenzene	20.000	19.931	0.3	115	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.888	5.6	112	0.00
78	4-Chlorotoluene	20.000	19.557	2.2	113	0.00
79	tert-butylbenzene	20.000	19.890	0.5	116	0.00
80	1,2,4-Trimethylbenzene	20.000	20.193	-1.0	116	0.00
81	sec-Butylbenzene	20.000	19.466	2.7	113	0.00
82	p-Isopropyltoluene	20.000	19.841	0.8	116	0.00
83 M	1,3-Dichlorobenzene	20.000	19.150	4.3	112	0.00
84 M	1,4-Dichlorobenzene	20.000	19.386	3.1	113	0.00
85	n-Butylbenzene	20.000	19.359	3.2	120	0.00
86 T	Hexachloroethane	20.000	19.297	3.5	112	0.00
87 M	1,2-Dichlorobenzene	20.000	19.338	3.3	113	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	17.026	14.9	97	0.00
89	1,2,4-Trichlorobenzene	20.000	19.190	4.0	116	0.00
90	Hexachlorobutadiene	20.000	19.995	0.0	117	0.00
91 M	Naphthalene	20.000	18.602	7.0	123	0.00
92	1,2,3-Trichlorobenzene	20.000	19.190	4.0	116	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date/Time: 12/16/2024 16:33

Lab File ID: VN085216.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.400	2.542		5.92	50
Chloromethane	2.124	2.194		3.3	50
Vinyl Chloride	2.173	2.299	0.1	5.8	50
Bromomethane	1.380	1.295	0.1	-6.16	50
Chloroethane	1.335	1.435		7.49	50
Trichlorofluoromethane	3.557	3.621		1.8	50
1,1,2-Trichlorotrifluoroethane	1.989	2.079		4.53	50
1,1-Dichloroethene	1.827	1.851	0.1	1.31	50
Acrolein	0.313	0.345		10.22	50
Acrylonitrile	0.895	0.922		3.02	50
Acetone	0.243	0.286		17.69	50
Carbon Disulfide	5.461	5.430		-0.57	50
Methyl tert-Butyl Ether	5.708	5.892		3.22	50
Methyl Acetate	2.155	2.321		7.7	50
Methylene Chloride	2.073	1.985		-4.24	50
trans-1,2-Dichloroethene	1.899	1.907		0.42	50
1,1-Dichloroethane	3.541	3.573	0.2	0.9	50
Cyclohexane	0.552	0.527		-4.53	50
2-Butanone	0.222	0.233		4.95	50
Carbon Tetrachloride	0.591	0.590	0.1	-0.17	50
2,2-Dichloropropane	0.621	0.621		0	50
cis-1,2-Dichloroethene	2.183	2.196		0.6	50
Chloroform	3.710	3.818	0.2	2.91	50
1,1,1-Trichloroethane	0.655	0.667	0.1	1.83	50
Methylcyclohexane	0.526	0.503		-4.37	50
1,1-Dichloropropene	0.484	0.483		-0.21	50
Benzene	1.521	1.495	0.5	-1.71	50
1,2-Dichloroethane	0.518	0.508	0.1	-1.93	50
Trichloroethene	0.362	0.357	0.3	-1.38	50
1,2-Dichloropropane	0.368	0.358		-2.72	50
Dibromomethane	0.264	0.267		1.14	50
Bromodichloromethane	0.565	0.559	0.2	-1.06	50
4-Methyl-2-Pentanone	0.490	0.496		1.22	50
Toluene	1.750	1.715	0.4	-2	50
t-1,3-Dichloropropene	0.554	0.539	0.1	-2.71	50
cis-1,3-Dichloropropene	0.604	0.579	0.2	-4.14	50
1,1,2-Trichloroethane	0.356	0.358	0.1	0.56	50
1,3-Dichloropropane	0.596	0.598		0.34	50

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date/Time: 12/16/2024 16:33

Lab File ID: VN085216.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.371	0.371		0	50
Dibromochloromethane	0.434	0.437	0.1	0.69	50
1,2-Dibromoethane	0.359	0.359		0	50
Tetrachloroethene	0.363	0.364	0.2	0.28	50
Chlorobenzene	1.080	1.100	0.5	1.85	50
1,1,1,2-Tetrachloroethane	0.403	0.400		-0.74	50
Hexachloroethane	0.285	0.297		4.21	50
Ethyl Benzene	1.857	1.856	0.1	-0.05	50
m/p-Xylenes	0.714	0.728	0.3	1.96	50
o-Xylene	0.671	0.684	0.3	1.94	50
Styrene	1.138	1.149	0.3	0.97	50
Bromoform	0.291	0.286	0.1	-1.72	50
Isopropylbenzene	1.730	1.742		0.69	50
1,1,2,2-Tetrachloroethane	0.526	0.537	0.3	2.09	50
1,2,3-Trichloropropane	0.520	0.497		-4.42	50
Bromobenzene	0.433	0.445		2.77	50
n-propylbenzene	2.079	2.096		0.82	50
2-Chlorotoluene	1.286	1.290		0.31	50
1,3,5-Trimethylbenzene	1.482	1.515		2.23	50
4-Chlorotoluene	1.305	1.313		0.61	50
tert-butylbenzene	1.217	1.212		-0.41	50
1,2,4-Trimethylbenzene	1.464	1.522		3.96	50
sec-Butylbenzene	1.729	1.739		0.58	50
p-Isopropyltoluene	1.434	1.465		2.16	50
1,3-Dichlorobenzene	0.795	0.800	0.2	0.63	50
1,4-Dichlorobenzene	0.775	0.796	0.2	2.71	50
n-Butylbenzene	1.203	1.189		-1.16	50
1,2-Dichlorobenzene	0.750	0.765	0.2	2	50
1,2-Dibromo-3-Chloropropane	0.105	0.105		0	50
1,2,4-Trichlorobenzene	0.367	0.358	0.2	-2.45	50
Hexachlorobutadiene	0.191	0.187		-2.09	50
Naphthalene	1.142	1.106		-3.15	50
1,2,3-Trichlorobenzene	0.367	0.358		-2.45	50
1,2-Dichloroethane-d4	2.380	2.419	0.01	1.64	50
Toluene-d8	1.407	1.395	0.01	-0.85	50
4-Bromofluorobenzene	0.496	0.502	0.2	1.21	50
Methyl Iodide	2.534	2.053		-18.98	50
Methyl methacrylate	0.352	0.365		3.69	50

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085216.D
 Acq On : 16 Dec 2024 16:33
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Dec 17 02:01:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024
 Supervised By :Semsettin Yesilyurt 12/17/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	29360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	158547	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146162	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71020	30.486	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.633%			
60) 4-Bromofluorobenzene	12.847	95	73363	30.335	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.133%			
63) Toluene-d8	10.565	98	203918	29.742	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.133%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	49748	21.179	ug/l	93
3) Chloromethane	2.359	50	42949	20.658	ug/l	99
4) Vinyl Chloride	2.512	62	44990	21.156	ug/l	97
5) Bromomethane	2.959	94	25352	18.777	ug/l	93
6) Chloroethane	3.118	64	28088	21.499	ug/l	100
7) Trichlorofluoromethane	3.501	101	70874	20.361	ug/l	99
8) Diethyl Ether	3.959	74	22341	20.263	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	40686	20.901	ug/l	98
10) 1,1-Dichloroethene	4.336	96	36236	20.266	ug/l	94
11) Methyl Iodide	4.583	142	40185	16.205	ug/l	92
12) Methyl Acetate	5.024	43	45420	21.532	ug/l	94
13) Acrolein	4.177	56	33787	110.222	ug/l	93
14) Acrylonitrile	5.718	53	90277	103.071	ug/l	99
15) Acetone	4.424	58	28037	118.123	ug/l	98
16) Carbon Disulfide	4.706	76	106280	19.886	ug/l	97
17) Allyl chloride	5.024	41	49851	19.485	ug/l	93
18) Methylene Chloride	5.271	84	38850	19.149	ug/l	96
19) trans-1,2-Dichloroethene	5.777	96	37332	20.087	ug/l	98
20) Diisopropyl ether	6.671	45	112534	20.042	ug/l	98
21) 1,1-Dichloroethane	6.565	63	69939	20.181	ug/l #	95
22) cis-1,2-Dichloroethene	7.489	96	42975	20.118	ug/l	99
23) tert-Butyl Alcohol	5.512	59	31217	99.351	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	115332	20.646	ug/l #	76
25) Chloroform	7.965	83	74737	20.586	ug/l	94
26) Cyclohexane	8.253	56	55678	19.513	ug/l #	90
29) 1,1-Dichloropropene	8.365	75	51044	19.952	ug/l	98
30) 2-Butanone	7.483	43	122922	104.700	ug/l	99
31) 2,2-Dichloropropane	7.483	77	65668	20.016	ug/l #	100
32) 1,1,1-Trichloroethane	8.171	97	70477	20.352	ug/l	98
33) Carbon Tetrachloride	8.359	117	62403	19.971	ug/l	92
34) Benzene	8.600	78	158070	19.668	ug/l	98
35) Methacrylonitrile	7.771	41	24639	18.649	ug/l	88
36) 1,2-Dichloroethane	8.665	62	53647	19.608	ug/l	100
37) Trichloroethene	9.347	130	37732	19.715	ug/l	89
38) Methylcyclohexane	9.600	83	53143	19.104	ug/l	95
39) 1,2-Dichloropropane	9.618	63	37813	19.424	ug/l	96
40) Dibromomethane	9.706	93	28271	20.246	ug/l	99
41) Bromodichloromethane	9.883	83	59043	19.780	ug/l	95
42) Vinyl Acetate	6.600	43	421239	102.535	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085216.D
 Acq On : 16 Dec 2024 16:33
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024
 Supervised By :Semsettin Yesilyurt 12/17/2024

Quant Time: Dec 17 02:01:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	47420	20.300	ug/l	96
44) Isopropyl Acetate	8.683	43	83434	20.553	ug/l	100
45) 1,4-Dioxane	9.694	88	13913	410.991	ug/l	96
46) Methyl methacrylate	9.677	41	38564	20.757	ug/l	89
47) n-amyl Acetate	12.488	43	68064	19.928	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	56984	19.447	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	61200	19.185	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	37831	20.106	ug/l	97
51) Ethyl methacrylate	10.871	69	56637	19.790	ug/l	96
52) 1,3-Dichloropropane	11.159	76	63193	20.068	ug/l	99
53) Dibromochloromethane	11.359	129	46186	20.142	ug/l	97
54) 1,2-Dibromoethane	11.465	107	37912	19.998	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	127137	95.632	ug/l	98
56) Bromoform	12.576	173	30230	19.663	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	241784	101.359	ug/l	98
59) 2-Hexanone	11.194	43	180597	99.918	ug/l	98
61) Tetrachloroethene	11.100	164	35484	20.047	ug/l	88
62) Toluene	10.630	91	167102	19.603	ug/l	99
64) Chlorobenzene	11.888	112	107226	20.374	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	38942	19.821	ug/l	99
66) Ethyl Benzene	11.959	91	180830	19.992	ug/l	94
67) m/p-Xylenes	12.071	106	141848	40.773	ug/l	99
68) o-Xylene	12.394	106	66647	20.398	ug/l	97
69) Styrene	12.412	104	111932	20.189	ug/l	99
70) Isopropylbenzene	12.694	105	169768	20.146	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	52367	20.416	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	48416m	19.108	ug/l	
73) Bromobenzene	12.982	156	43360	20.542	ug/l	97
74) n-propylbenzene	13.035	91	204268	20.162	ug/l	99
75) 2-Chlorotoluene	13.123	91	125691	20.066	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	147652	20.451	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	17306	18.797	ug/l	98
78) 4-Chlorotoluene	13.218	91	127980	20.129	ug/l	100
79) tert-butylbenzene	13.435	119	118141	19.923	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	148267	20.790	ug/l	99
81) sec-Butylbenzene	13.612	105	169428	20.111	ug/l	98
82) p-Isopropyltoluene	13.729	119	142796	20.444	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	77972	20.134	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	77546	20.546	ug/l	99
85) n-Butylbenzene	14.053	91	115848	19.773	ug/l	99
86) Hexachloroethane	14.329	117	28941	20.814	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	74498	20.380	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10280	20.062	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	34875	19.481	ug/l	96
90) Hexachlorobutadiene	15.500	225	18191	19.555	ug/l	96
91) Naphthalene	15.641	128	107788	19.380	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	34875	19.481	ug/l	96

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

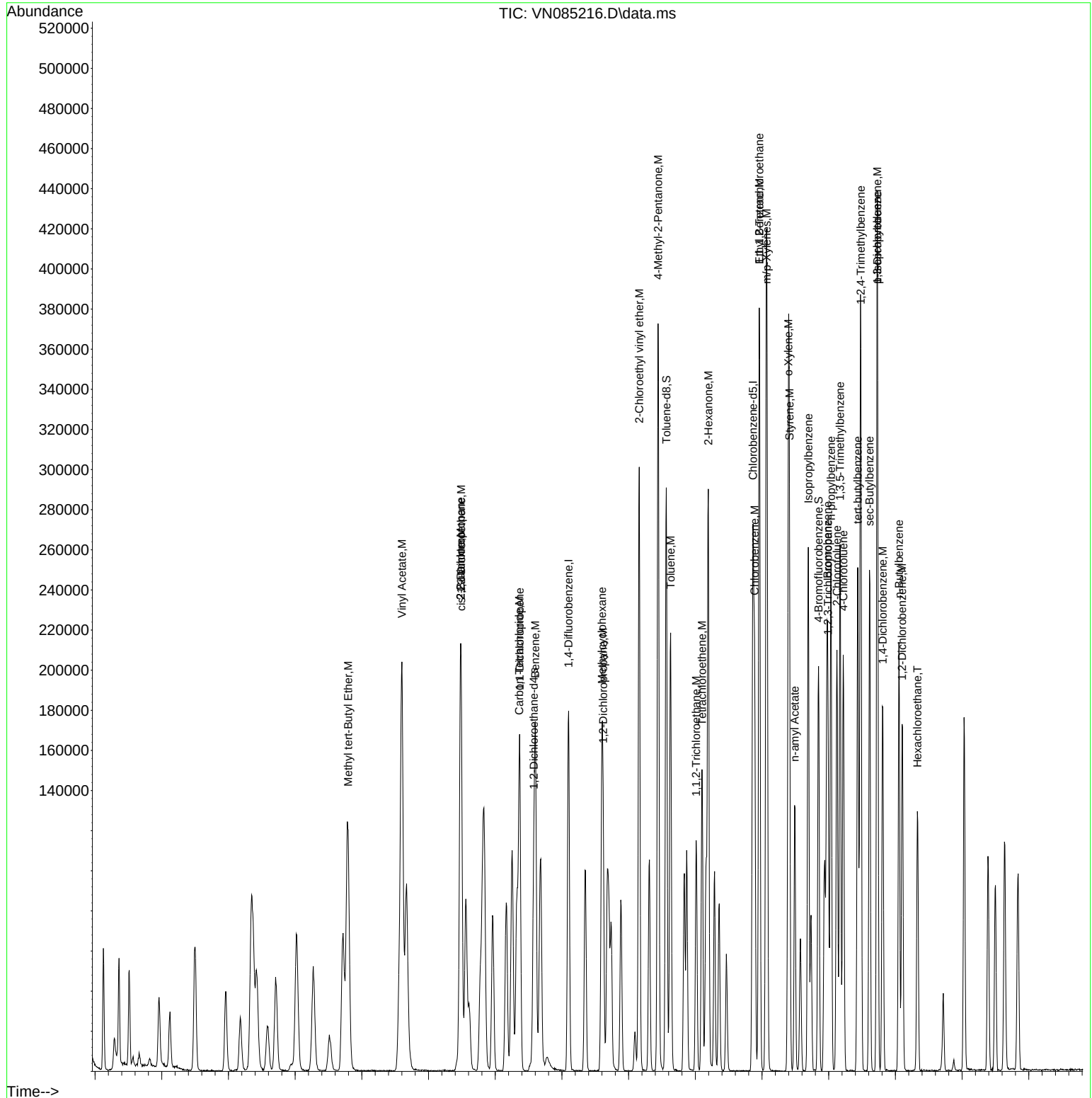
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Data File : VN085216.D
Acq On : 16 Dec 2024 16:33
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

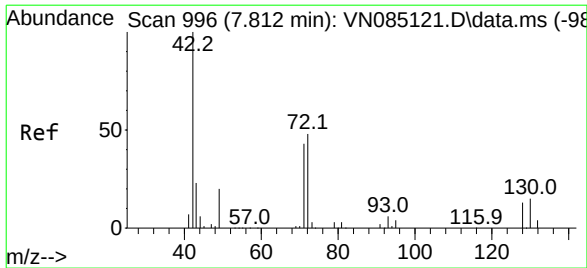
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Quant Time: Dec 17 02:01:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

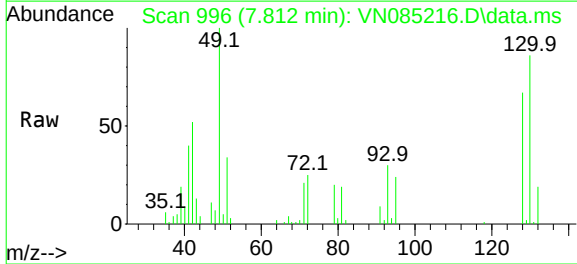
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

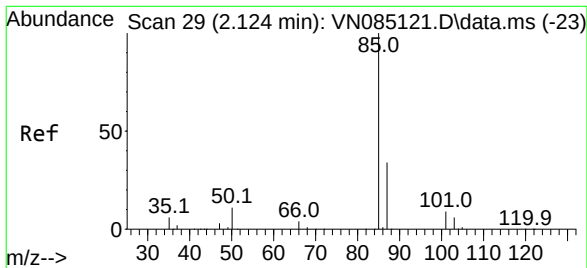
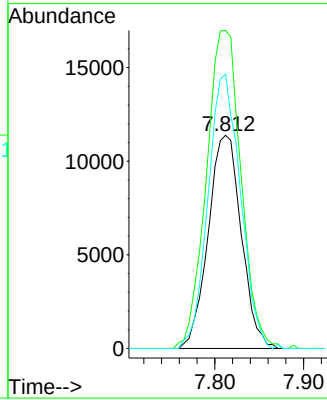
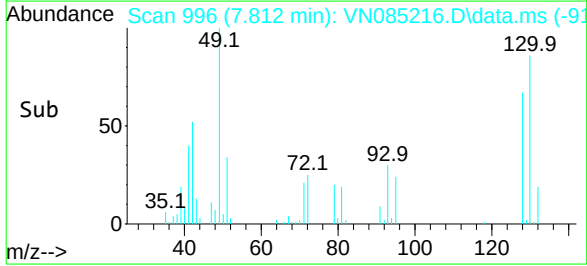
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 128 Resp: 29360
Ion Ratio Lower Upper
128 100
49 156.7 0.0 394.5
130 126.4 0.0 316.5

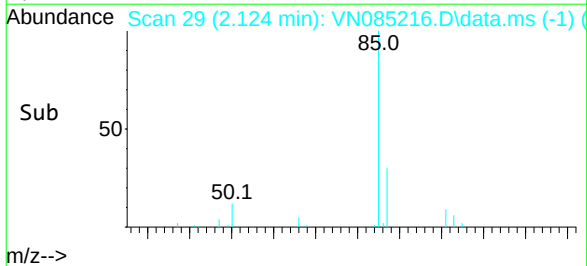
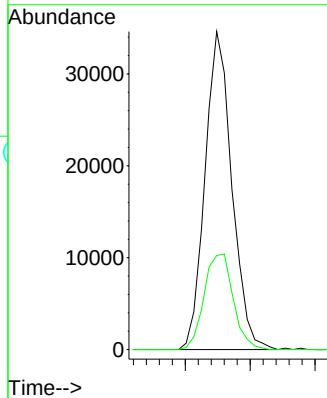
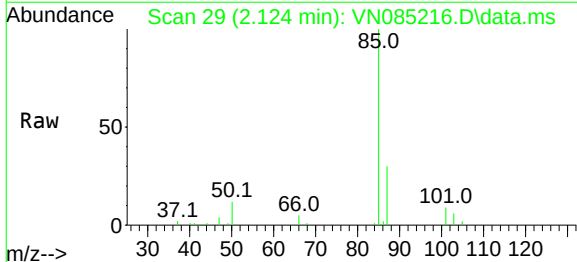
Manual Integrations
APPROVED

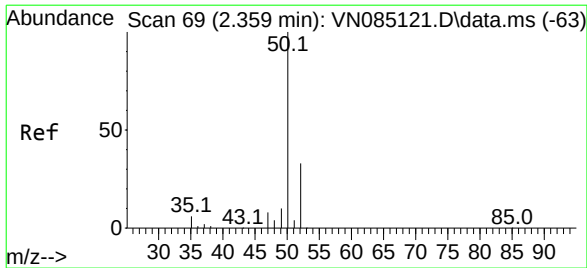
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#2
Dichlorodifluoromethane
Concen: 21.179 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 85 Resp: 49748
Ion Ratio Lower Upper
85 100
87 29.6 16.8 50.3





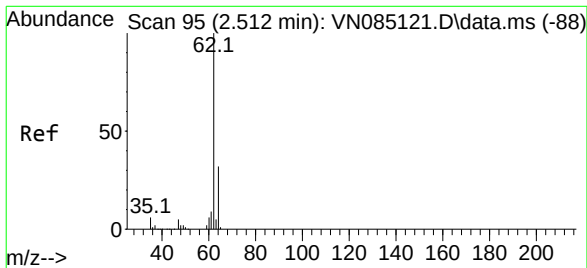
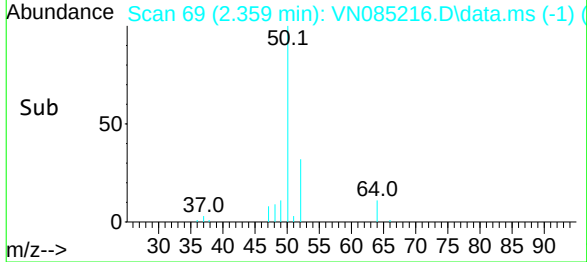
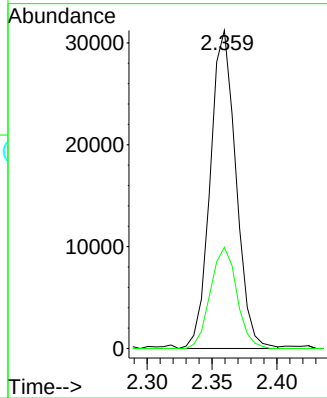
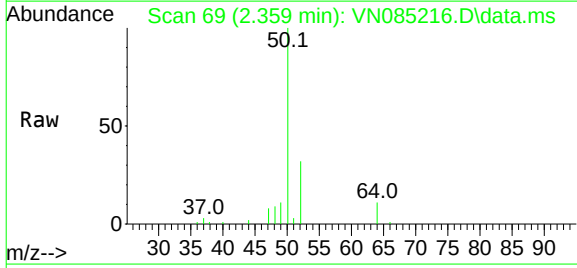
#3
Chloromethane
Concen: 20.658 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 50 Resp: 42949
Ion Ratio Lower Upper
50 100
52 31.8 25.0 37.4

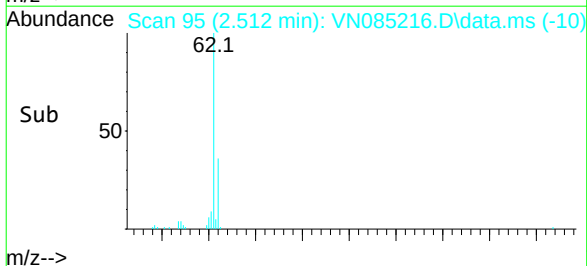
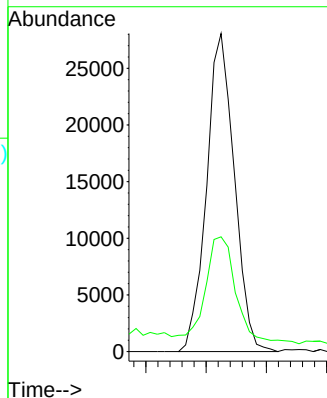
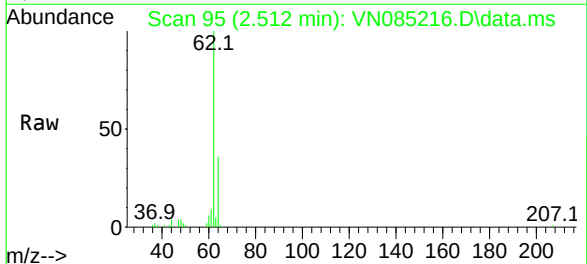
Manual Integrations
APPROVED

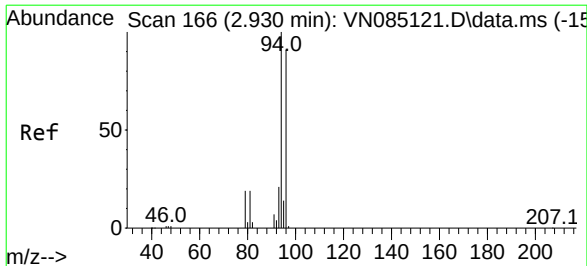
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#4
Vinyl Chloride
Concen: 21.156 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

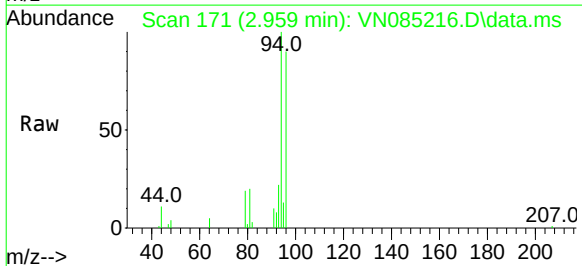
Tgt Ion: 62 Resp: 44990
Ion Ratio Lower Upper
62 100
64 32.5 24.9 37.3





#5
Bromomethane
Concen: 18.777 ug/l
RT: 2.959 min Scan# 171
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

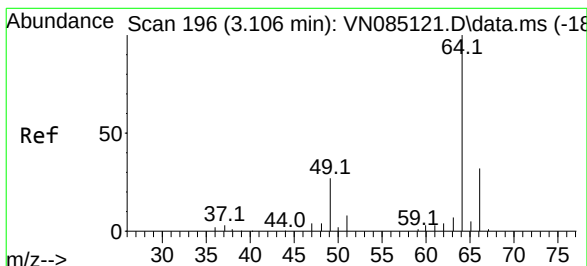
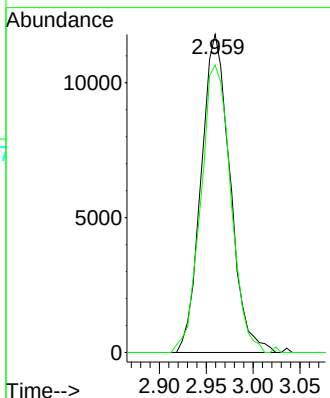
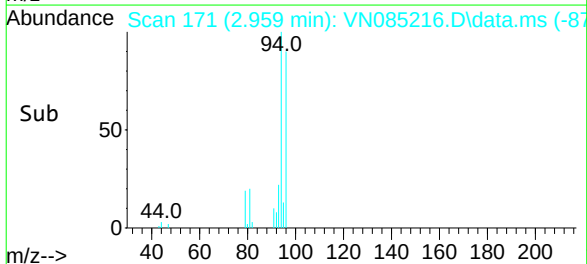
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 94 Resp: 25352
Ion Ratio Lower Upper
94 100
96 88.5 76.2 114.4

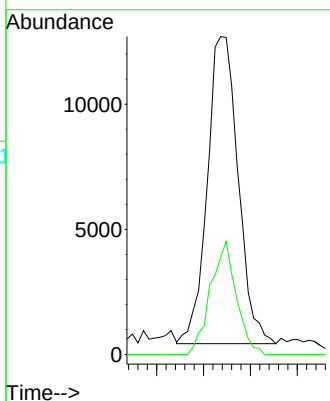
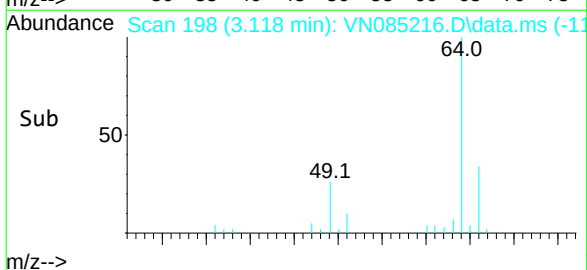
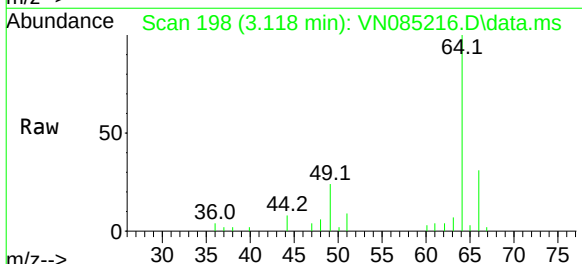
Manual Integrations
APPROVED

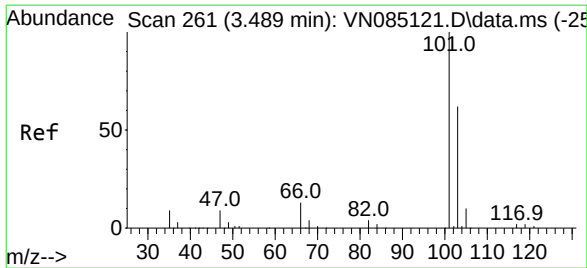
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#6
Chloroethane
Concen: 21.499 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

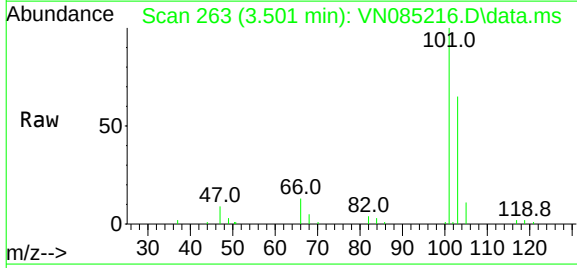
Tgt Ion: 64 Resp: 28088
Ion Ratio Lower Upper
64 100
66 31.7 25.5 38.3





#7
 Trichlorofluoromethane
 Concen: 20.361 ug/l
 RT: 3.501 min Scan# 261
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

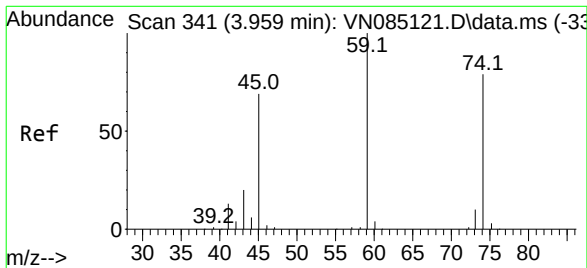
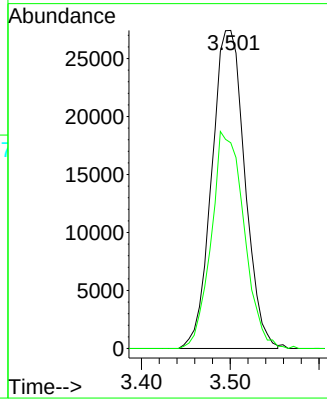
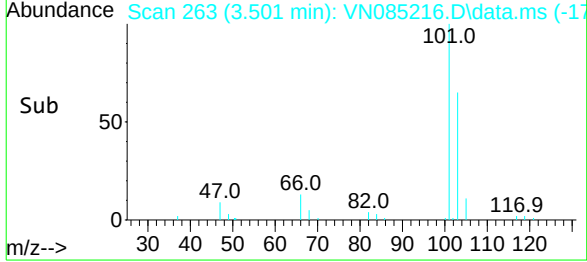
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC



Tgt Ion: 101 Resp: 70874
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.3 76.9

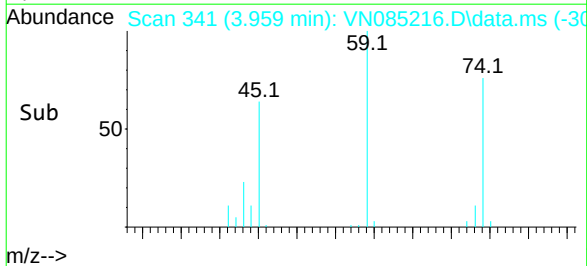
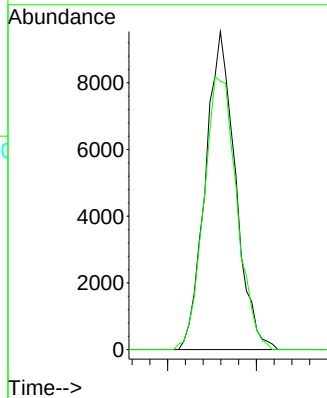
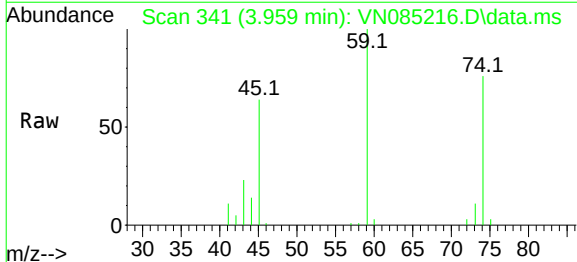
Manual Integrations
 APPROVED

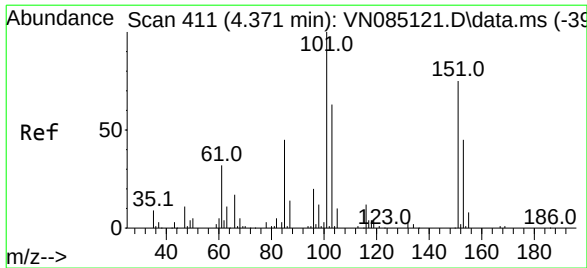
Reviewed By :Mahesh Dadoda 12/17/2024
 Supervised By :Semsettin Yesilyurt 12/17/2024



#8
 Diethyl Ether
 Concen: 20.263 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

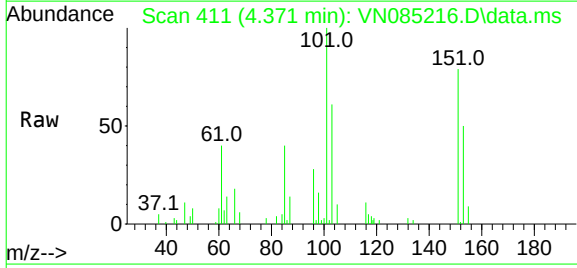
Tgt Ion: 74 Resp: 22341
 Ion Ratio Lower Upper
 74 100
 45 94.3 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.901 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

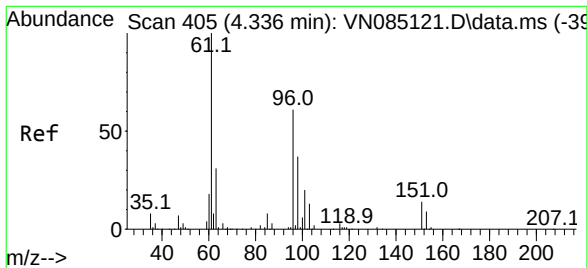
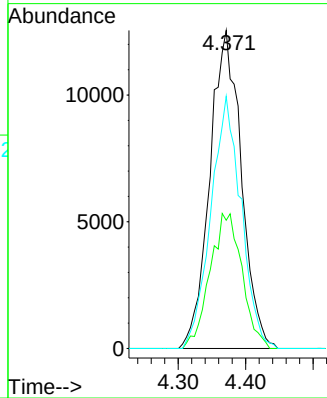
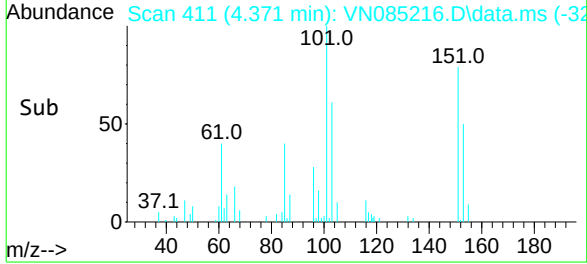
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



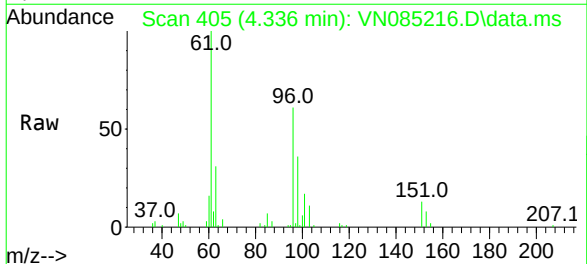
Tgt Ion:101 Resp: 40686
Ion Ratio Lower Upper
101 100
85 43.3 0.0 88.6
151 76.1 0.0 155.8

Manual Integrations
APPROVED

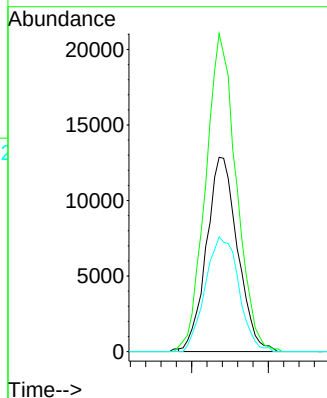
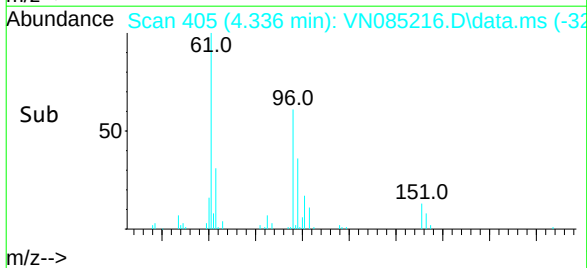
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024

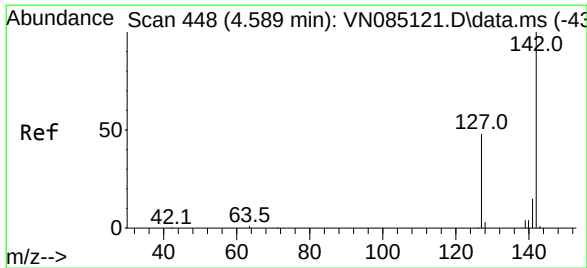


#10
1,1-Dichloroethene
Concen: 20.266 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33



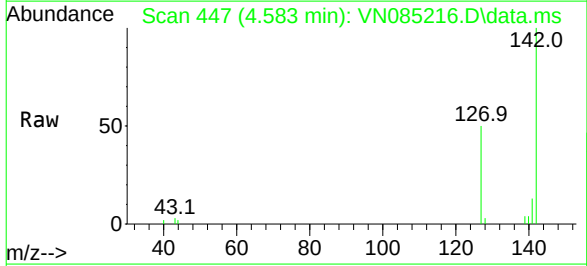
Tgt Ion: 96 Resp: 36236
Ion Ratio Lower Upper
96 100
61 162.2 123.0 184.4
98 59.0 49.1 73.7





#11
Methyl Iodide
Concen: 16.205 ug/l
RT: 4.583 min Scan# 44
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

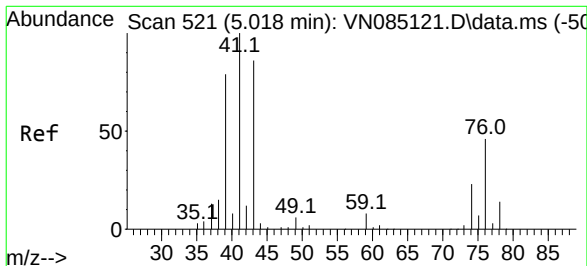
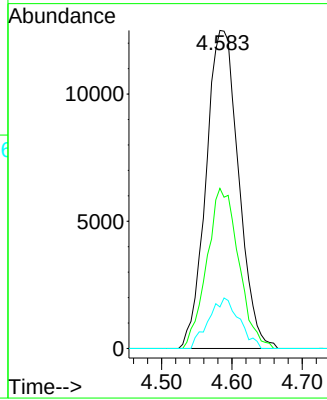
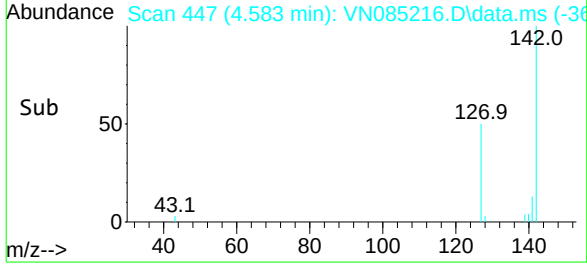
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 142 Resp: 40185
Ion Ratio Lower Upper
142 100
127 50.3 22.5 67.5
141 13.1 8.3 24.9

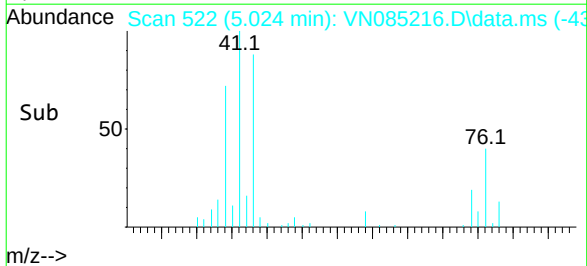
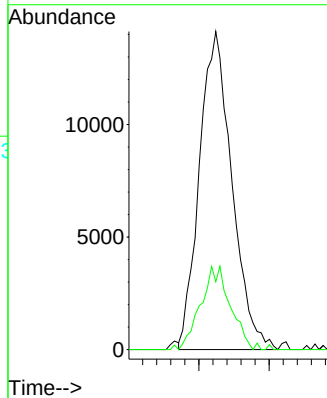
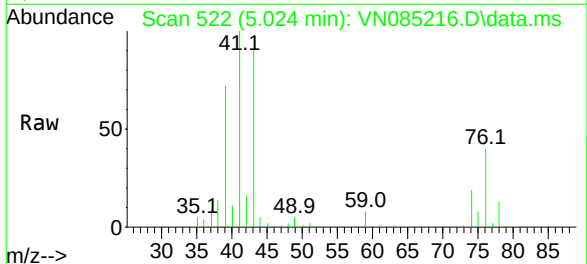
Manual Integrations
APPROVED

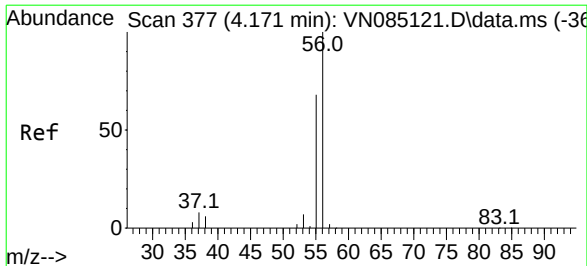
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#12
Methyl Acetate
Concen: 21.532 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 43 Resp: 45420
Ion Ratio Lower Upper
43 100
74 21.6 19.8 29.6





#13

Acrolein

Concen: 110.222 ug/l

RT: 4.177 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 56 Resp: 33787

Ion Ratio Lower Upper

56 100

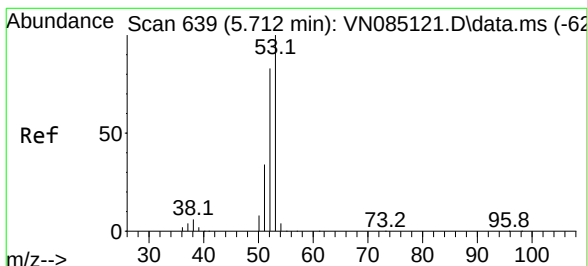
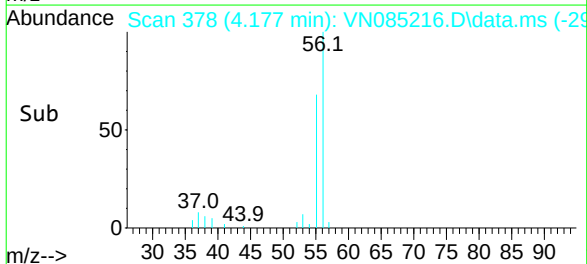
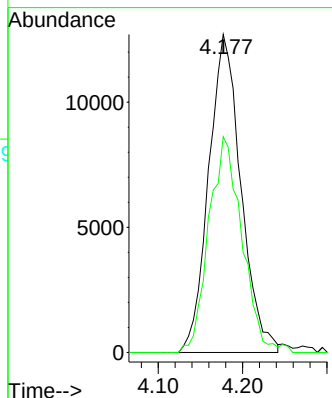
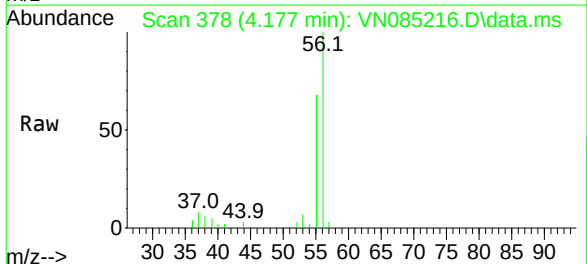
55 68.5 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024

Supervised By :Semsettin Yesilyurt 12/17/2024



#14

Acrylonitrile

Concen: 103.071 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

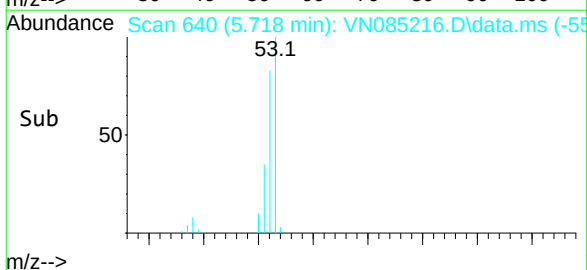
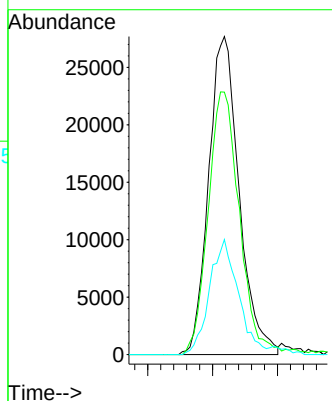
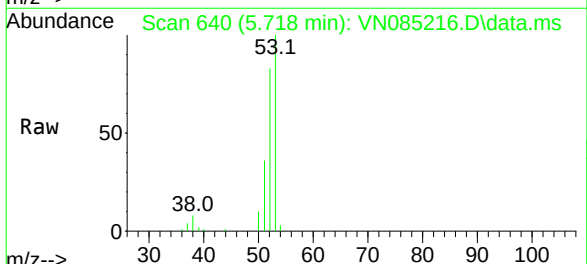
Tgt Ion: 53 Resp: 90277

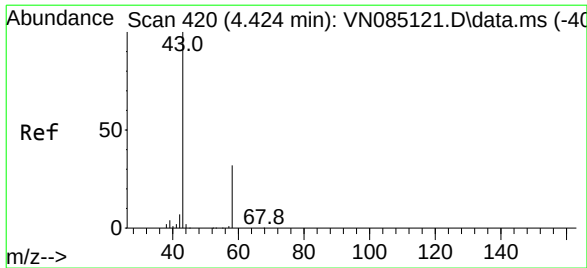
Ion Ratio Lower Upper

53 100

52 84.4 42.9 128.5

51 34.1 17.2 51.5





#15

Acetone

Concen: 118.123 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 58 Resp: 28037

Ion Ratio Lower Upper

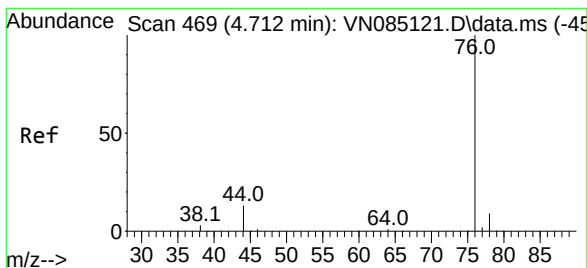
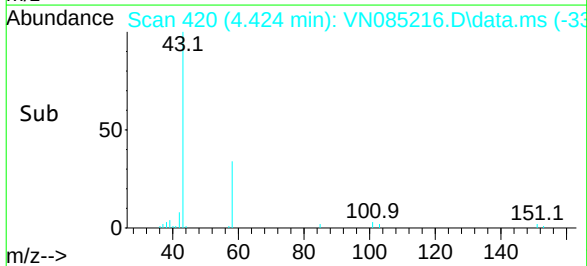
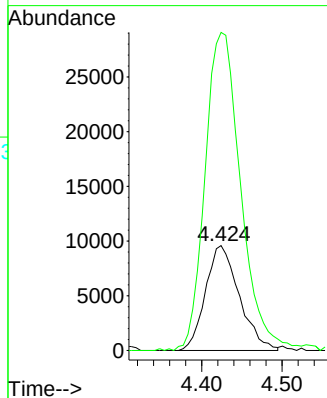
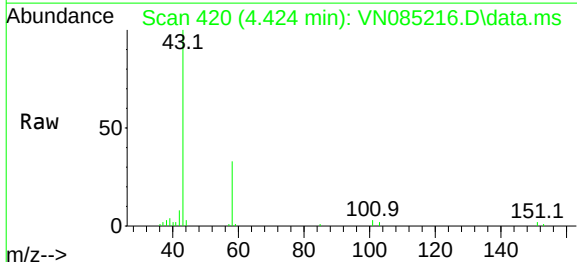
58 100

43 299.4 242.3 363.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#16

Carbon Disulfide

Concen: 19.886 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN085216.D

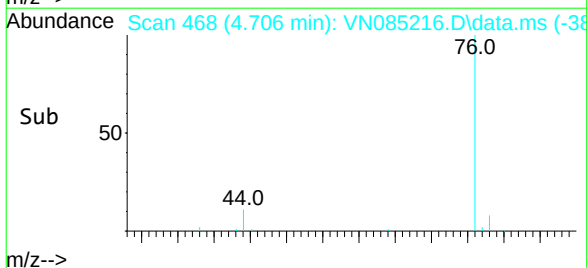
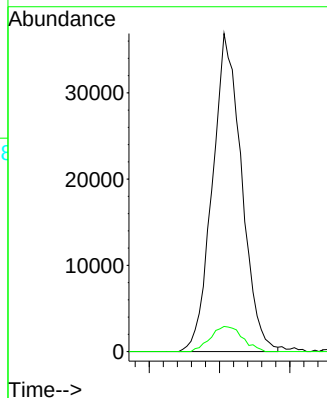
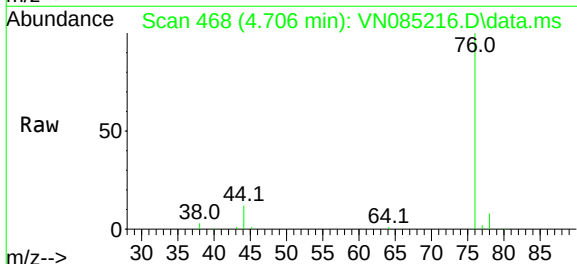
Acq: 16 Dec 2024 16:33

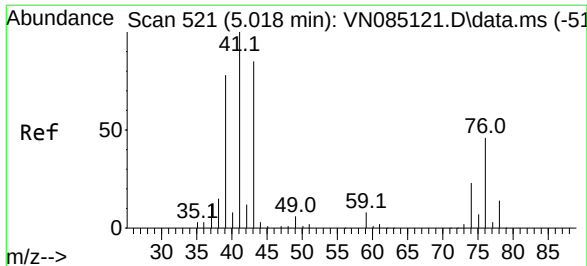
Tgt Ion: 76 Resp: 106280

Ion Ratio Lower Upper

76 100

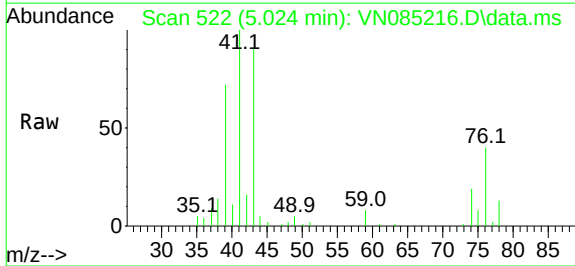
78 7.9 7.1 10.7





#17
 Allyl chloride
 Concen: 19.485 ug/l
 RT: 5.024 min Scan# 521
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

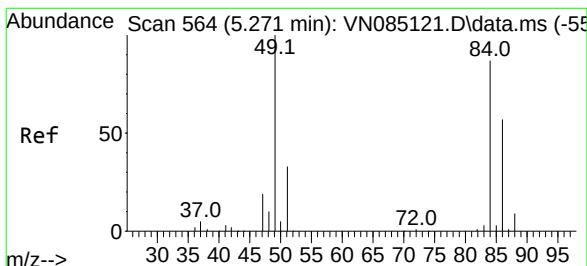
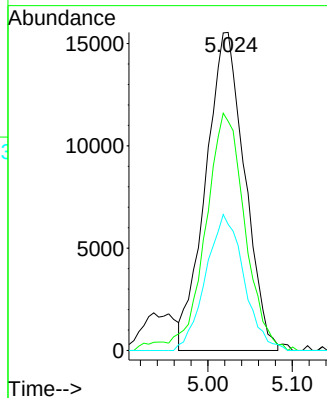
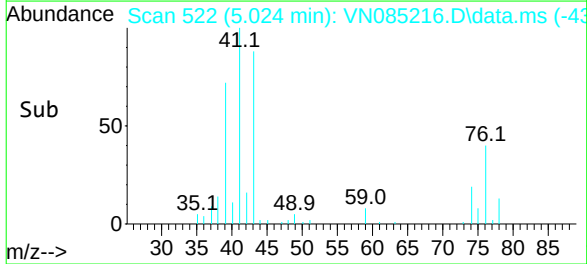
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC



Tgt Ion	Ratio	Lower	Upper
41	100		
39	71.4	32.0	96.2
76	38.5	20.2	60.5

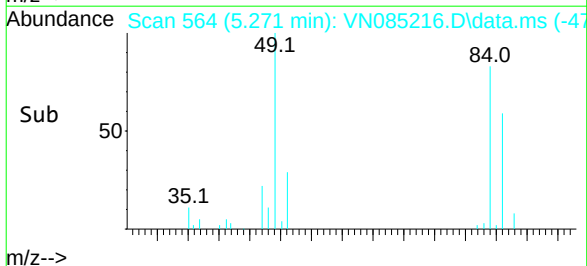
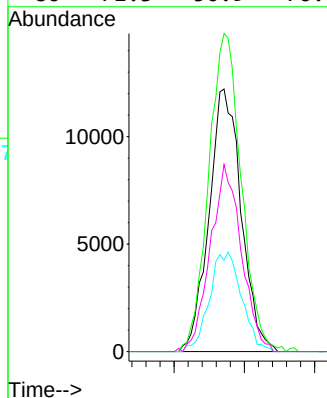
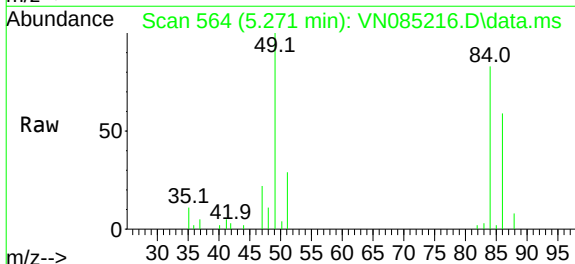
Manual Integrations
 APPROVED

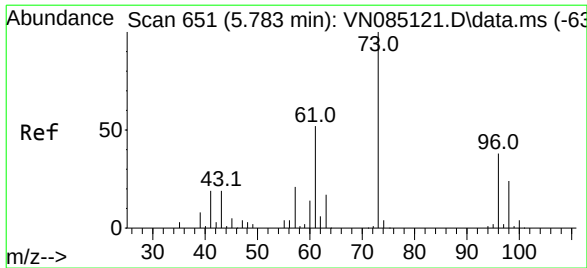
Reviewed By :Mahesh Dadoda 12/17/2024
 Supervised By :Semsettin Yesilyurt 12/17/2024



#18
 Methylene Chloride
 Concen: 19.149 ug/l
 RT: 5.271 min Scan# 564
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

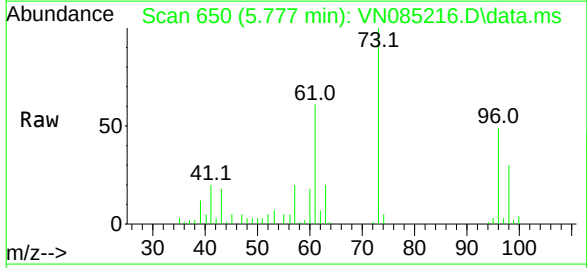
Tgt Ion	Ratio	Lower	Upper
84	100		
49	121.1	95.1	142.7
51	34.8	27.4	41.0
86	71.3	50.9	76.3





#19
trans-1,2-Dichloroethene
Concen: 20.087 ug/l
RT: 5.777 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

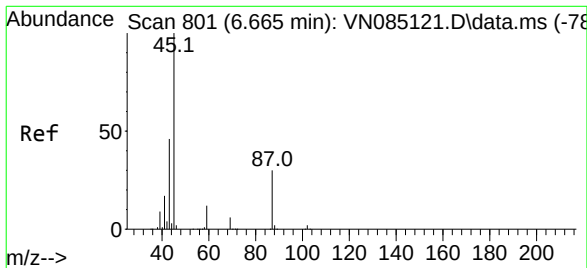
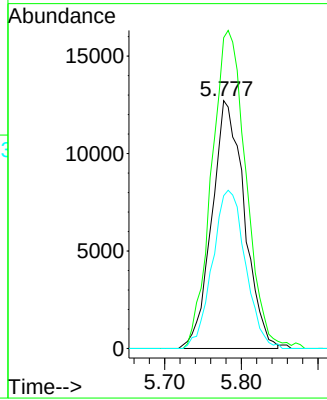
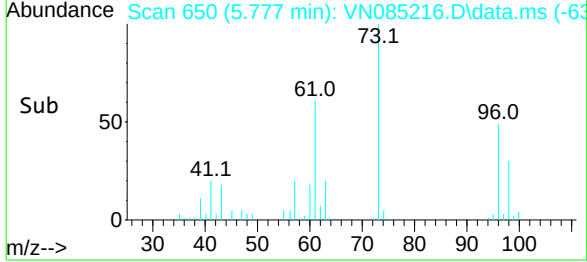
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



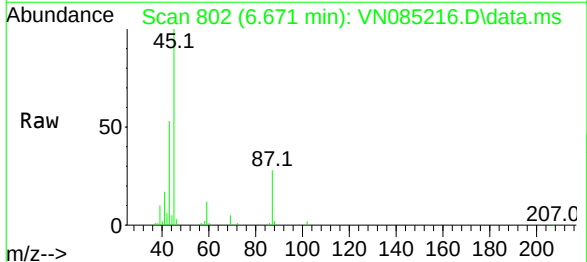
Tgt Ion: 96 Resp: 37332
Ion Ratio Lower Upper
96 100
61 125.4 100.4 150.6
98 61.6 52.6 79.0

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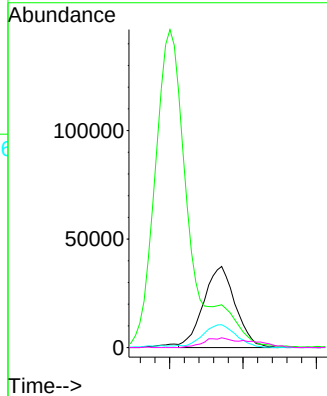
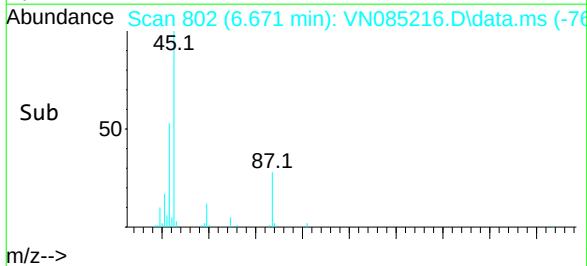
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024

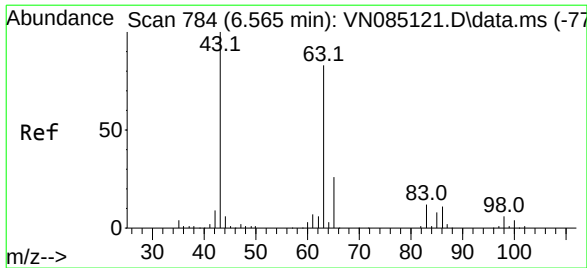


#20
Diisopropyl ether
Concen: 20.042 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33



Tgt Ion: 45 Resp: 112534
Ion Ratio Lower Upper
45 100
43 51.2 41.9 62.9
87 28.2 24.1 36.1
59 12.1 10.0 15.0





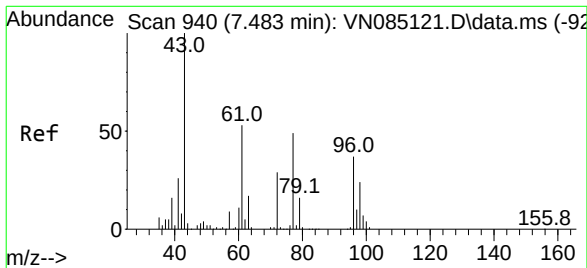
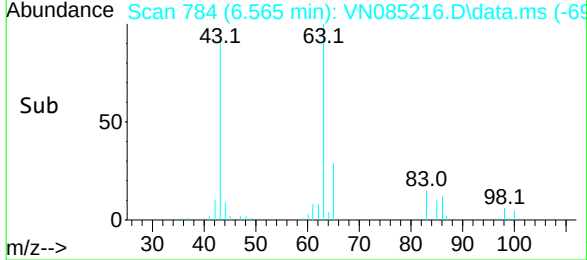
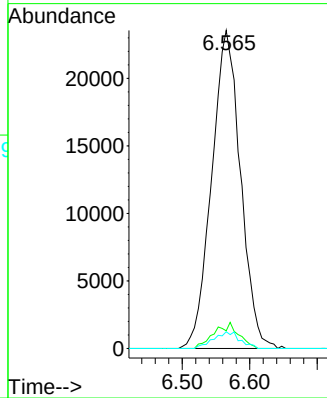
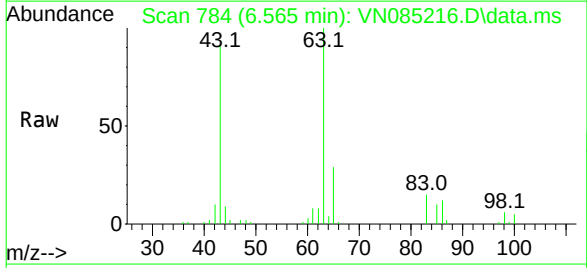
#21
1,1-Dichloroethane
Concen: 20.181 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 63	Resp: 69939
Ion Ratio Lower Upper	
63 100	
98 5.5 3.5 10.4	
100 5.3 1.6 4.8	

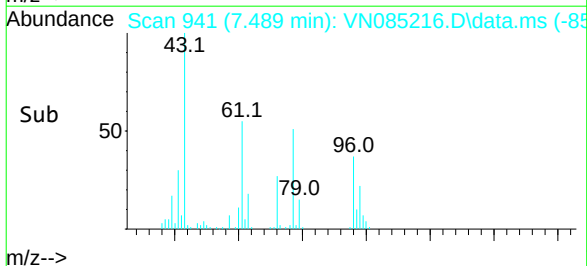
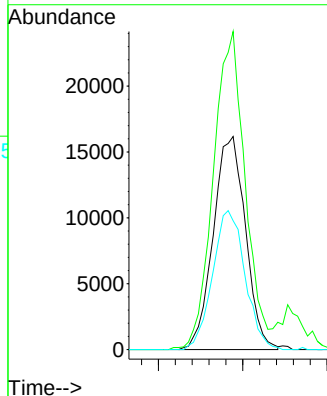
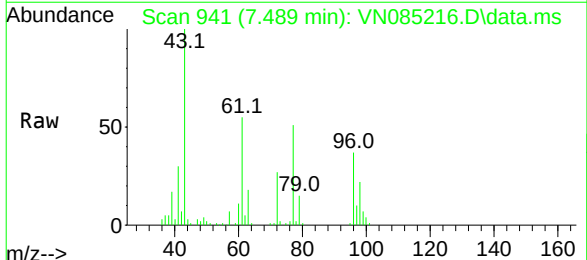
Manual Integrations
APPROVED

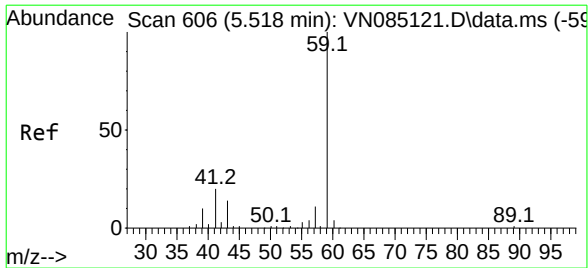
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#22
cis-1,2-Dichloroethene
Concen: 20.118 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 96	Resp: 42975
Ion Ratio Lower Upper	
96 100	
61 146.1 115.9 173.9	
98 65.5 51.8 77.8	





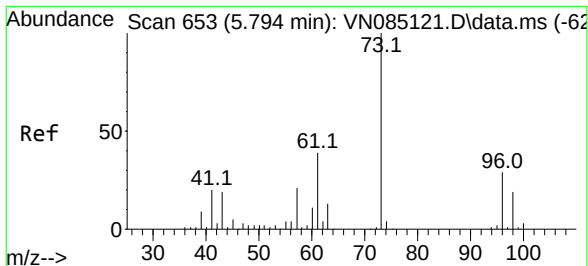
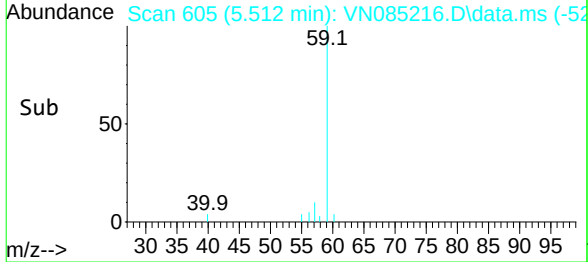
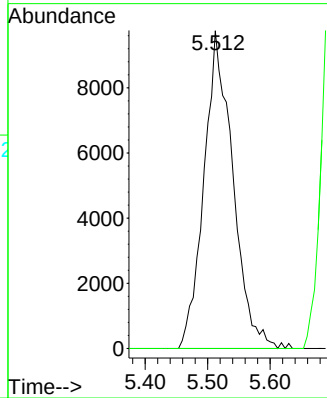
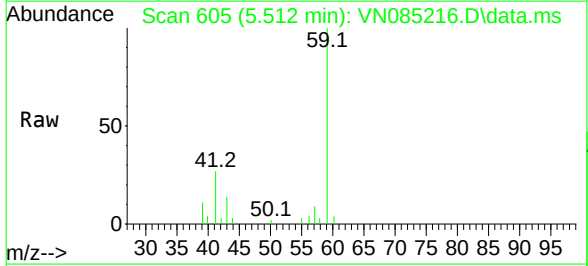
#23
tert-Butyl Alcohol
Concen: 99.351 ug/l
RT: 5.512 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 59 Resp: 31217
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

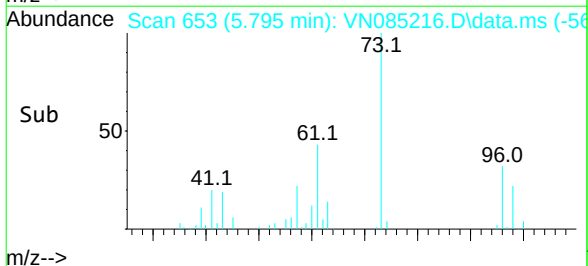
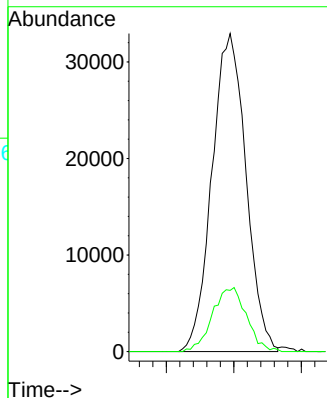
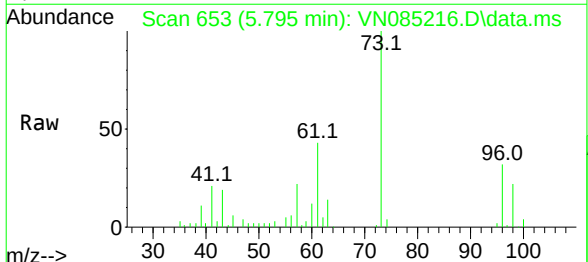
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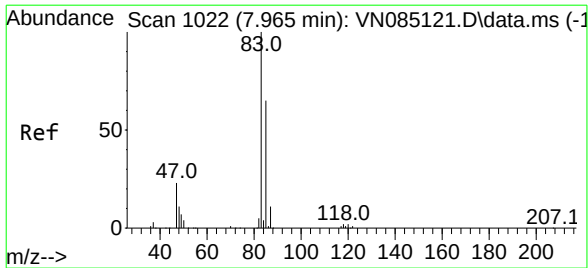
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#24
Methyl tert-Butyl Ether
Concen: 20.646 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

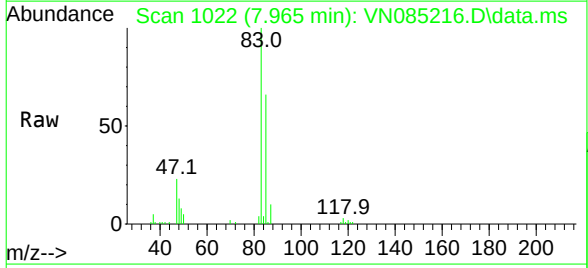
Tgt Ion: 73 Resp: 115332
Ion Ratio Lower Upper
73 100
43 20.0 8.7 13.1#





#25
Chloroform
Concen: 20.586 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

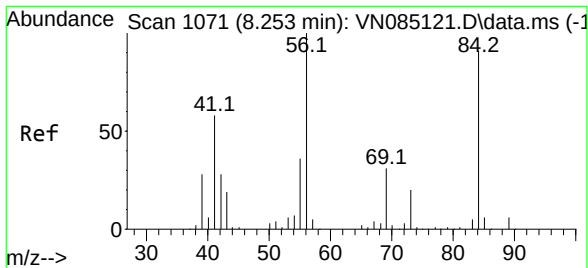
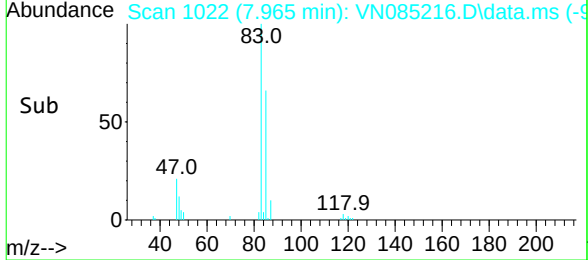
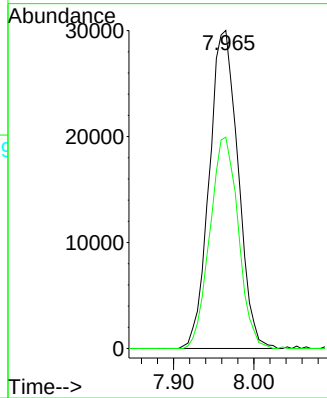
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 83 Resp: 74737
Ion Ratio Lower Upper
83 100
85 66.4 49.4 74.0

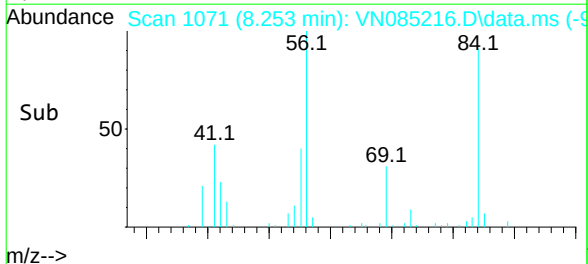
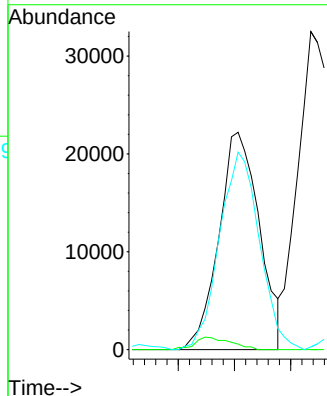
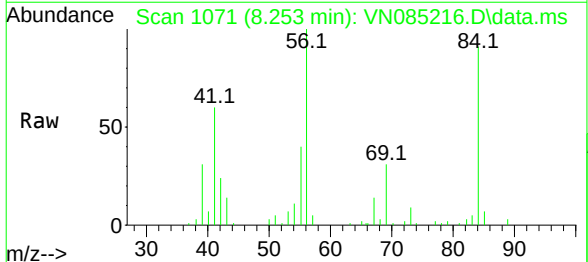
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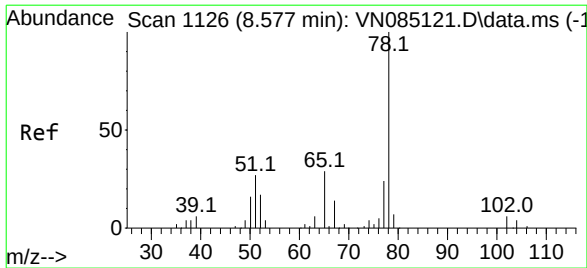
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#26
Cyclohexane
Concen: 19.513 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 56 Resp: 55678
Ion Ratio Lower Upper
56 100
89 4.8 19.5 29.3#
84 89.5 70.6 105.8





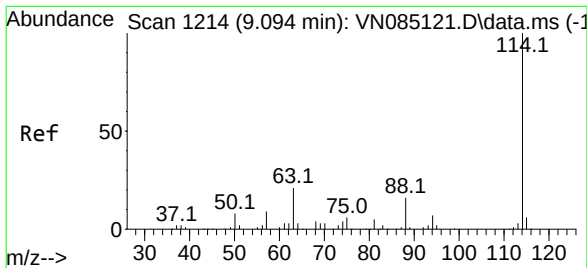
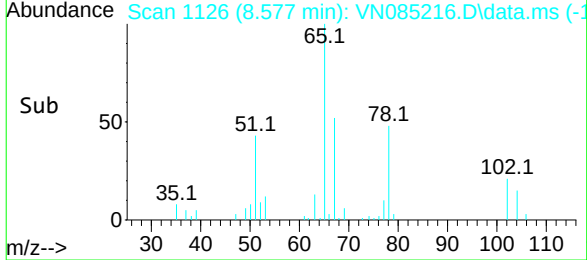
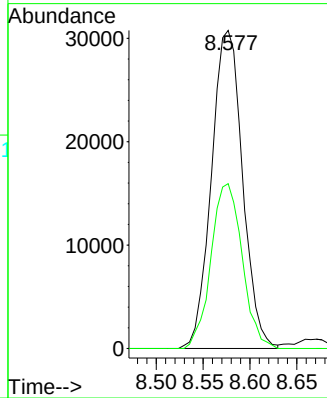
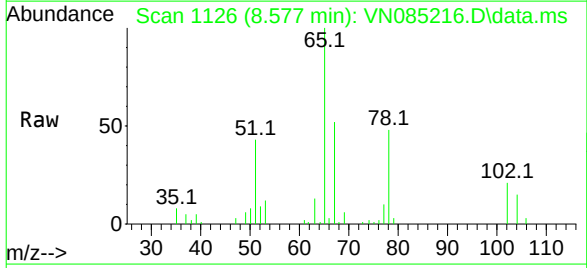
#27
1,2-Dichloroethane-d4
Concen: 30.486 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 65 Resp: 71020
Ion Ratio Lower Upper
65 100
67 51.9 39.9 59.9

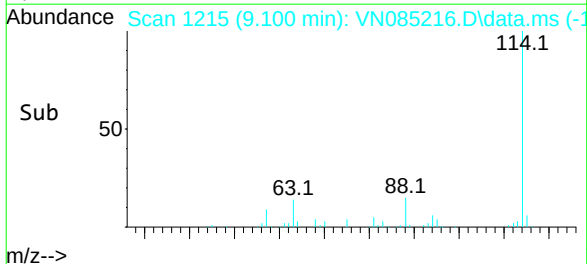
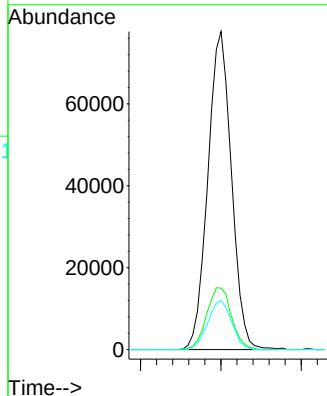
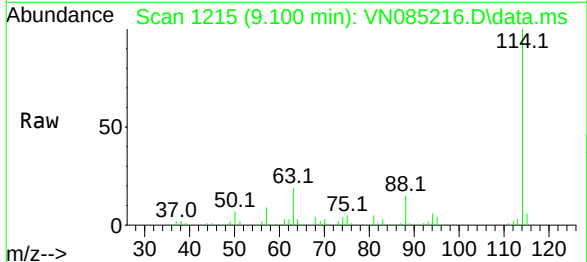
Manual Integrations
APPROVED

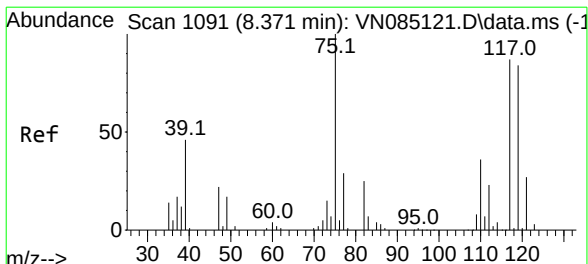
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

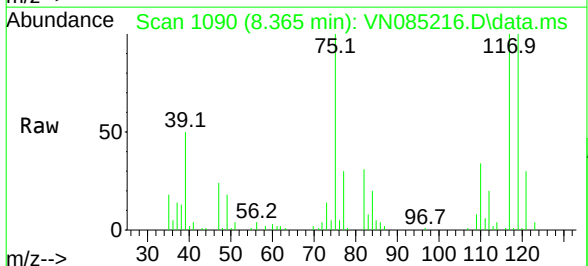
Tgt Ion:114 Resp: 158547
Ion Ratio Lower Upper
114 100
63 20.4 16.2 24.2
88 15.6 12.5 18.7





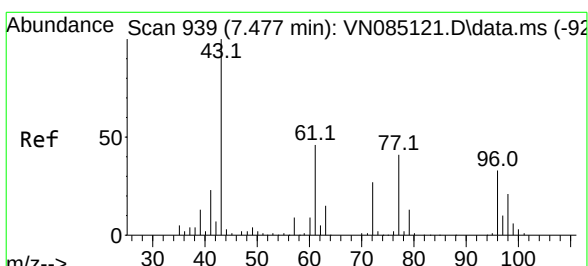
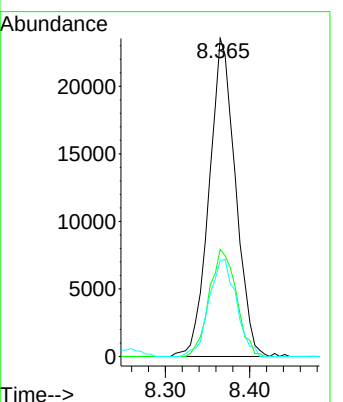
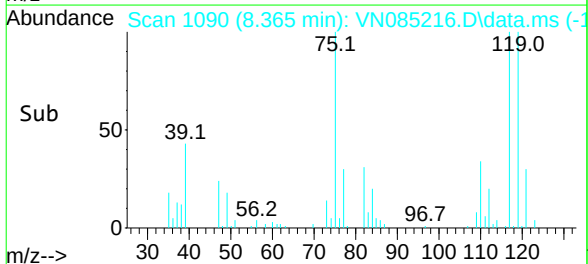
#29
 1,1-Dichloropropene
 Concen: 19.952 ug/l
 RT: 8.365 min Scan# 10
 Delta R.T. -0.006 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

Instrument : MSVOA_N
 ClientSampleId : VSTDCCC020EC

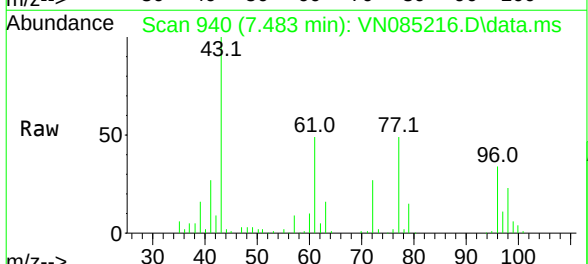


Tgt Ion:	75	Resp:	51044
Ion	Ratio	Lower	Upper
75	100		
110	34.7	0.0	71.6
77	31.7	0.0	62.2

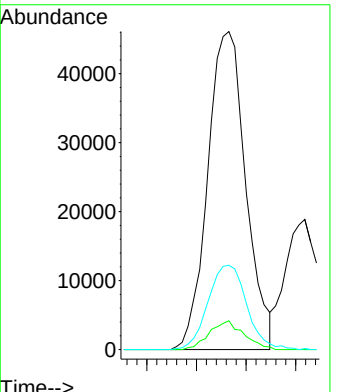
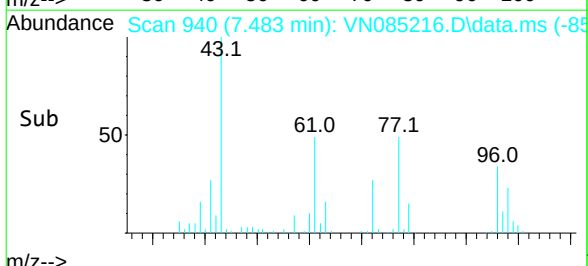
Manual Integrations
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 Reviewed By :Mahesh Dadoda 12/17/2024
 Supervised By :Semsettin Yesilyurt 12/17/2024

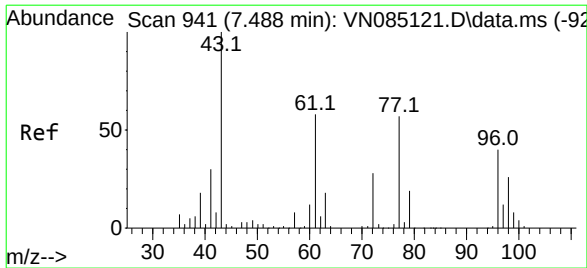


#30
 2-Butanone
 Concen: 104.700 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33



Tgt Ion:	43	Resp:	122922
Ion	Ratio	Lower	Upper
43	100		
57	8.2	6.9	10.3
72	26.9	21.8	32.8





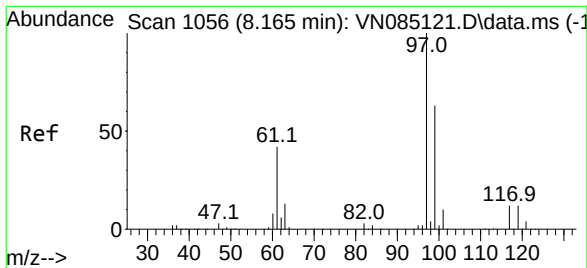
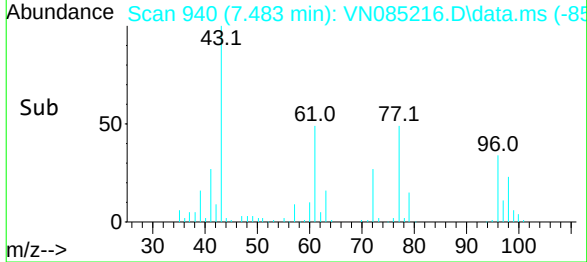
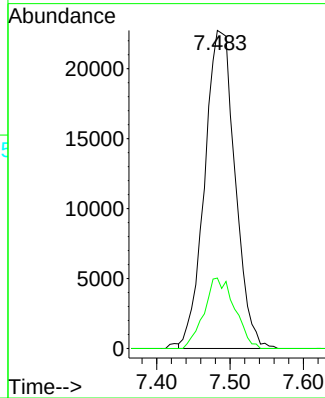
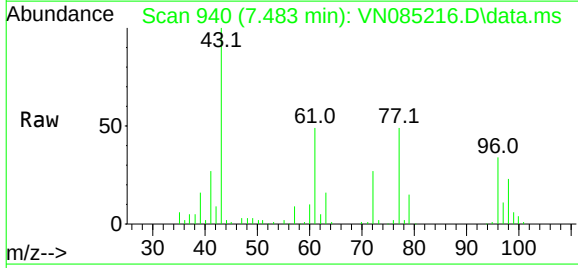
#31
2,2-Dichloropropane
Concen: 20.016 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 77 Resp: 65668
Ion Ratio Lower Upper
77 100
97 22.2 0.0 0.0#

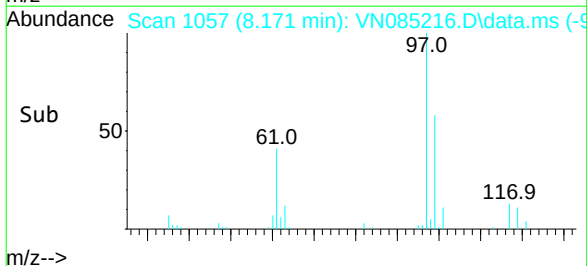
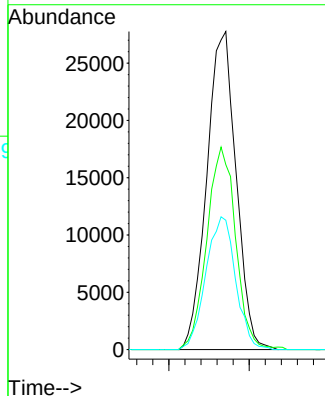
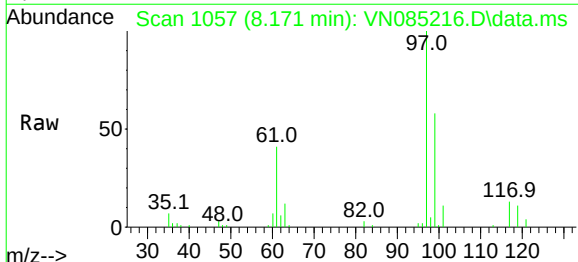
Manual Integrations
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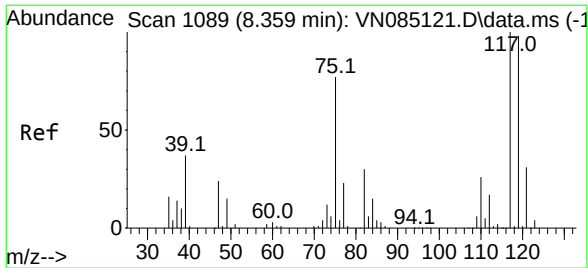
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#32
1,1,1-Trichloroethane
Concen: 20.352 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

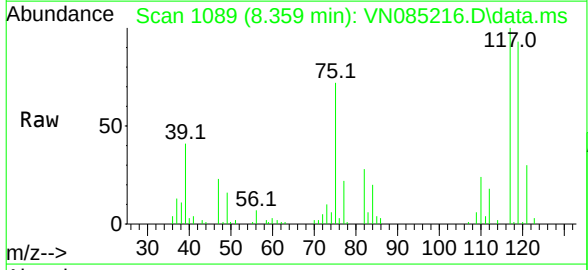
Tgt Ion: 97 Resp: 70477
Ion Ratio Lower Upper
97 100
99 62.4 50.8 76.2
61 42.3 32.7 49.1





#33
Carbon Tetrachloride
Concen: 19.971 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

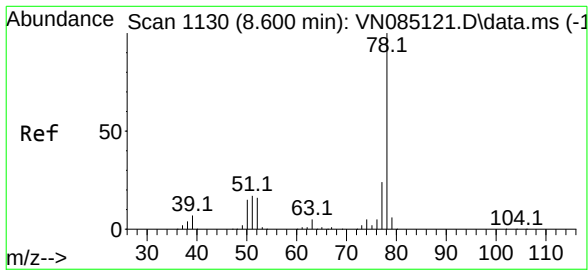
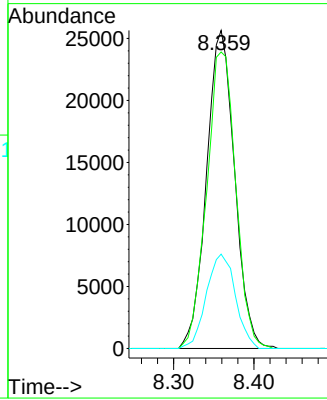
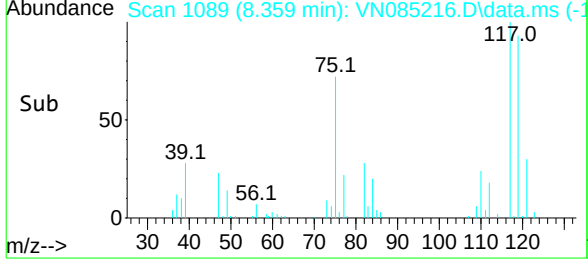
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



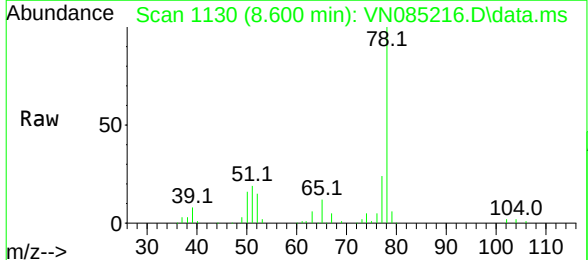
Tgt Ion: 117 Resp: 62403
Ion Ratio Lower Upper
117 100
119 93.2 81.6 122.4
121 29.7 26.5 39.7

Manual Integrations
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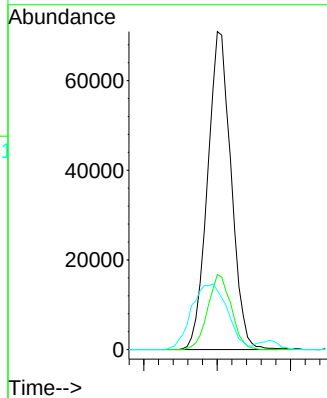
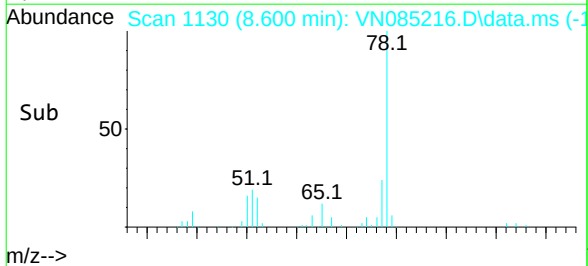
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024

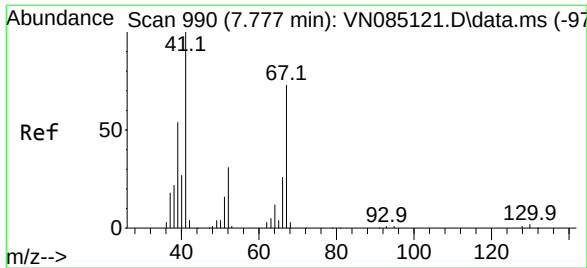


#34
Benzene
Concen: 19.668 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33



Tgt Ion: 78 Resp: 158070
Ion Ratio Lower Upper
78 100
77 23.6 18.0 27.0
51 16.7 12.4 18.6





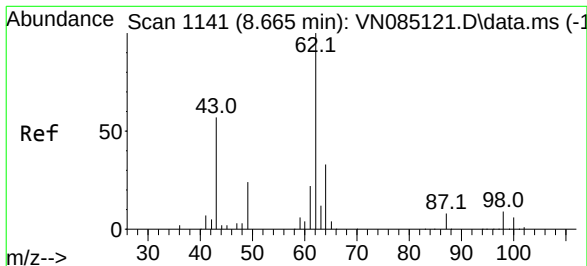
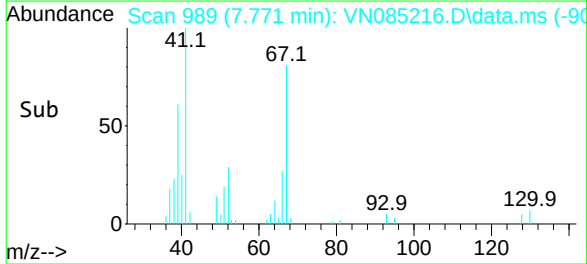
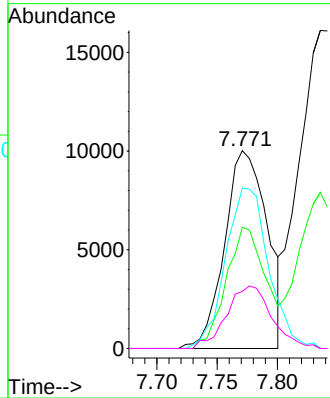
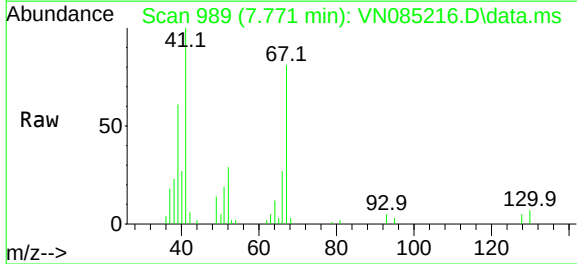
#35
Methacrylonitrile
Concen: 18.649 ug/l
RT: 7.771 min Scan# 98
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:	41	Resp:	24639
Ion	Ratio	Lower	Upper
41	100		
39	61.3	24.4	73.2
67	81.1	37.0	110.9
52	28.8	12.4	37.2

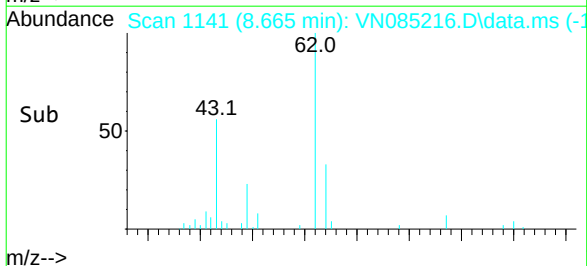
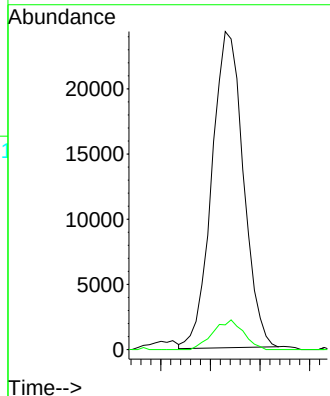
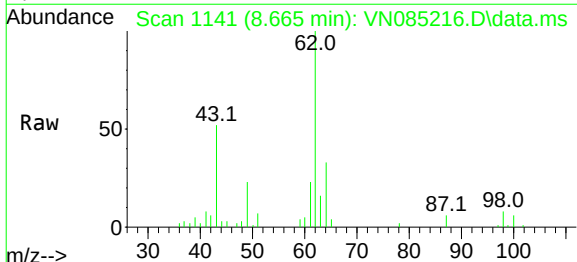
Manual Integrations
APPROVED

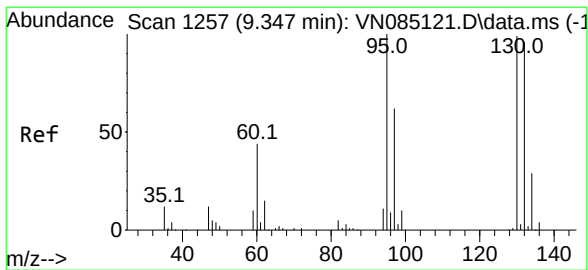
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#36
1,2-Dichloroethane
Concen: 19.608 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:	62	Resp:	53647
Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.3	10.9





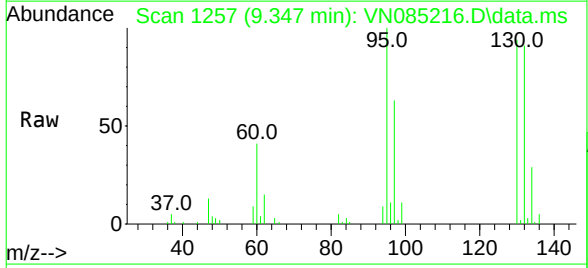
#37
 Trichloroethene
 Concen: 19.715 ug/l
 RT: 9.347 min Scan# 1257
 Delta R.T. -0.006 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

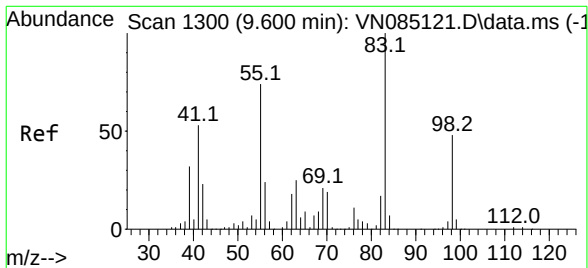
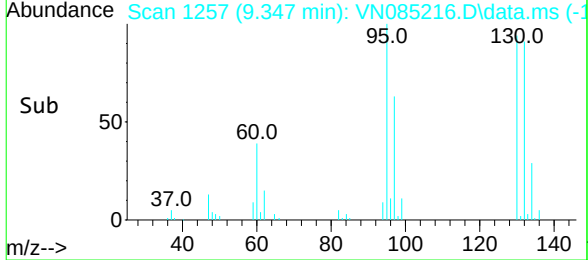
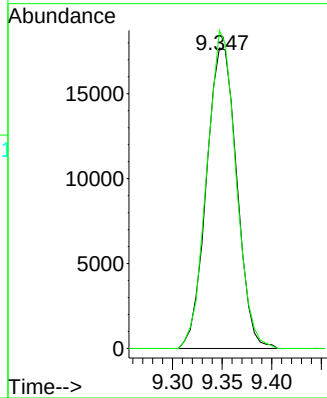


Tgt Ion: 130 Resp: 37732
 Ion Ratio Lower Upper
 130 100
 95 105.8 76.2 114.4

Manual Integrations

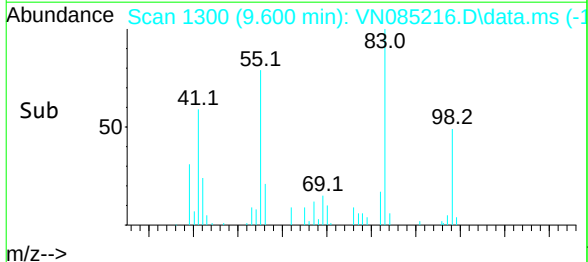
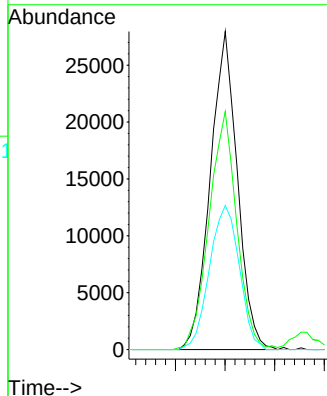
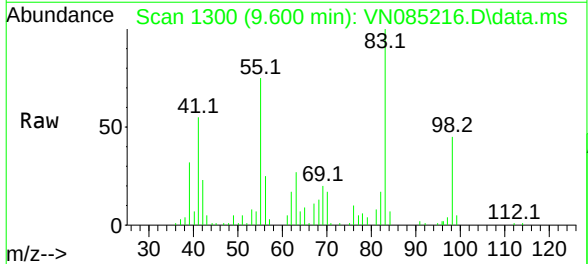
APPROVED

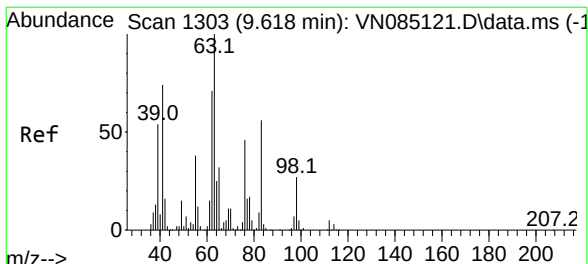
Reviewed By :Mahesh Dadoda 12/17/2024
 Supervised By :Semsettin Yesilyurt 12/17/2024



#38
 Methylcyclohexane
 Concen: 19.104 ug/l
 RT: 9.600 min Scan# 1300
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

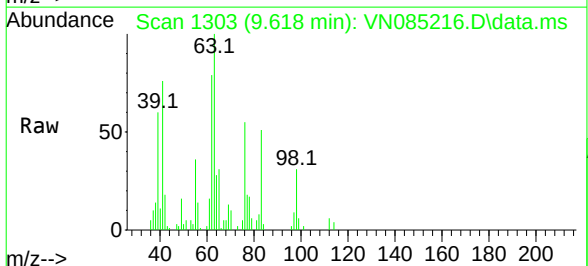
Tgt Ion: 83 Resp: 53143
 Ion Ratio Lower Upper
 83 100
 55 76.7 41.4 124.4
 98 49.8 25.7 77.1





#39
 1,2-Dichloropropane
 Concen: 19.424 ug/l
 RT: 9.618 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

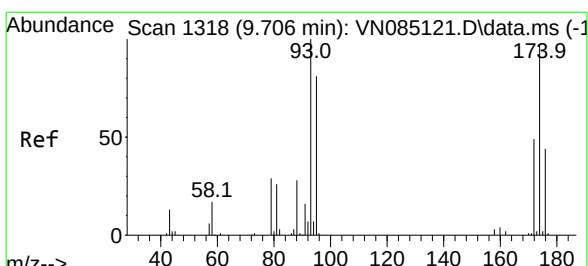
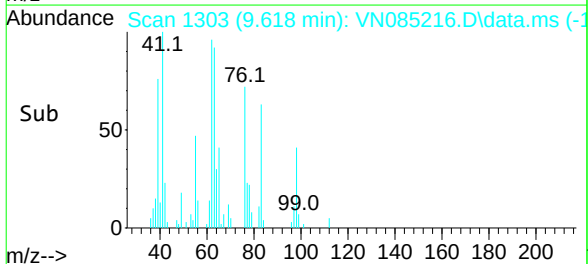
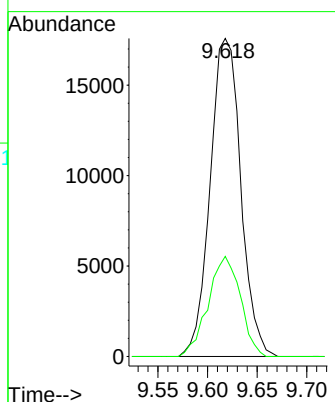
Instrument : MSVOA_N
 ClientSampleId : VSTDCCC020EC



Tgt Ion: 63 Resp: 37813

Ion	Ratio	Lower	Upper
63	100		
65	31.5	23.4	35.0

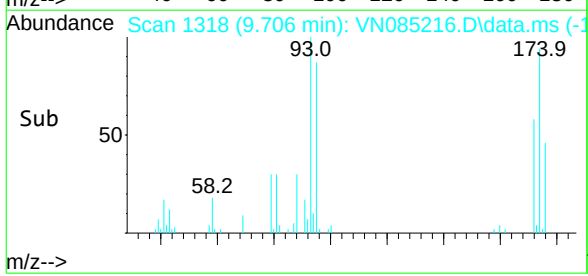
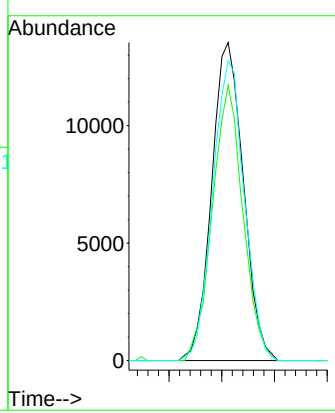
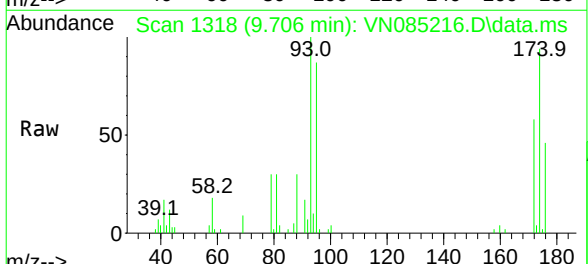
Manual Integrations
APPROVED
 Reviewed By :Mahesh Dadoda 12/17/2024
 Supervised By :Semsettin Yesilyurt 12/17/2024

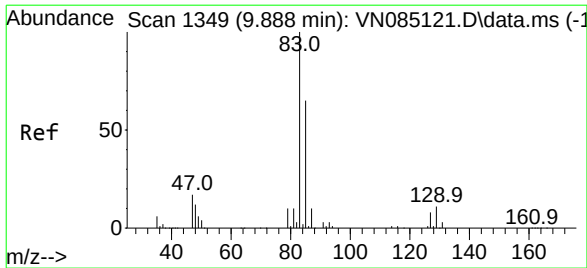


#40
 Dibromomethane
 Concen: 20.246 ug/l
 RT: 9.706 min Scan# 1318
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

Tgt Ion: 93 Resp: 28271

Ion	Ratio	Lower	Upper
93	100		
95	83.3	0.0	169.4
174	94.1	0.0	189.8





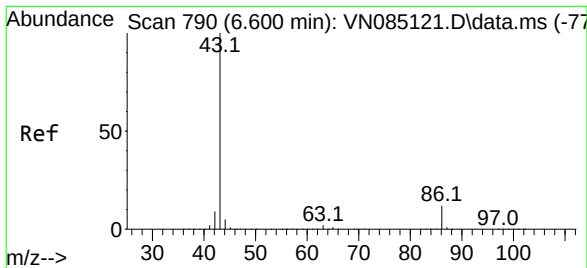
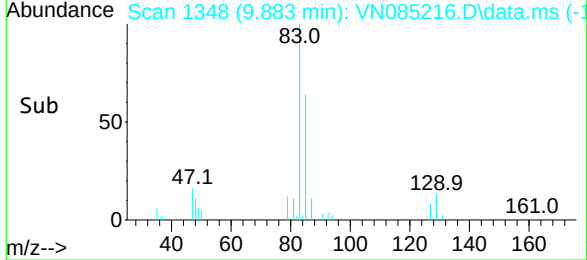
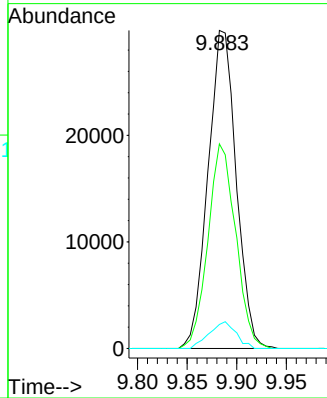
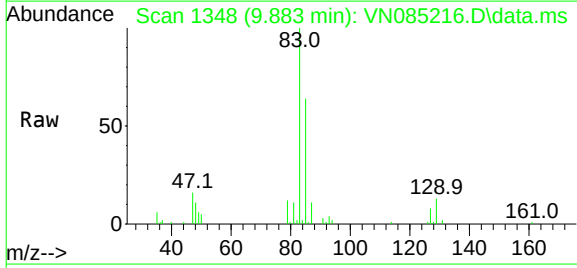
#41
Bromodichloromethane
Concen: 19.780 ug/l
RT: 9.883 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	54.6	81.8
127	7.5	7.0	10.6

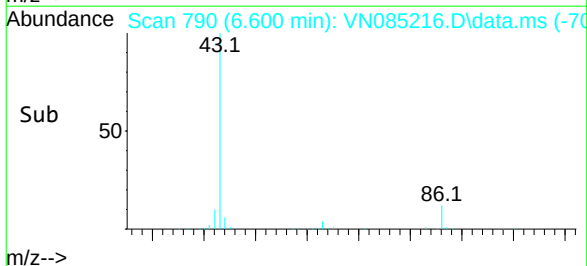
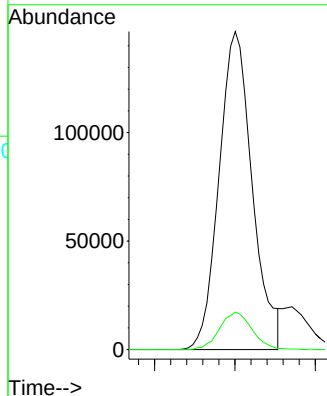
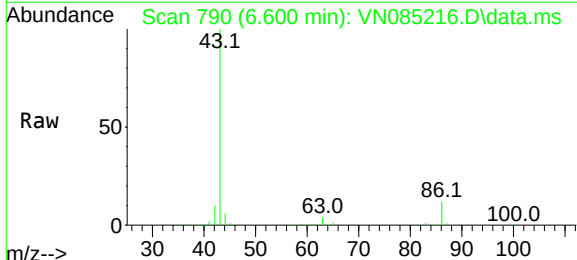
Manual Integrations
APPROVED

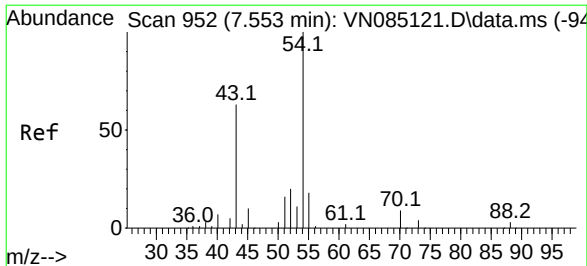
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#42
Vinyl Acetate
Concen: 102.535 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion	Ratio	Lower	Upper
43	100		
86	11.5	9.2	13.8





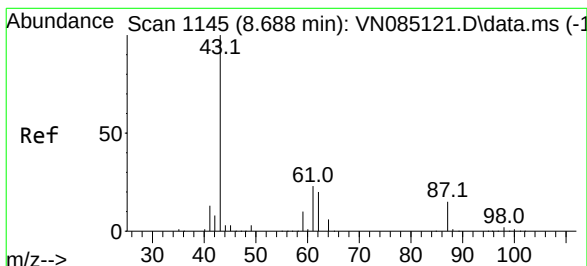
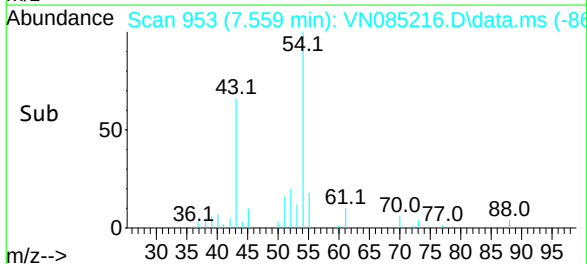
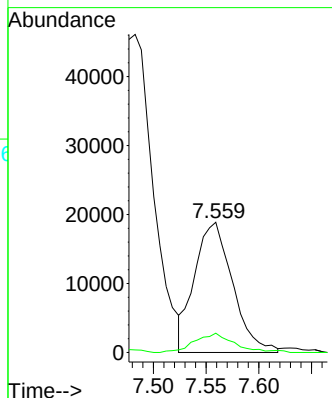
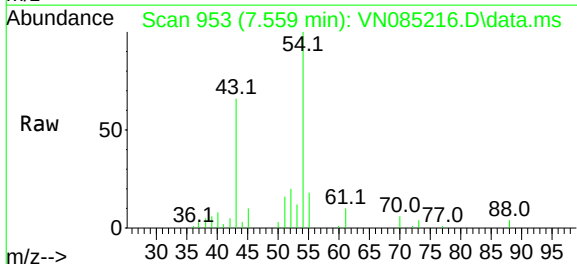
#43
Ethyl Acetate
Concen: 20.300 ug/l
RT: 7.559 min Scan# 952
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 43 Resp: 47420
Ion Ratio Lower Upper
43 100
45 14.9 13.3 19.9

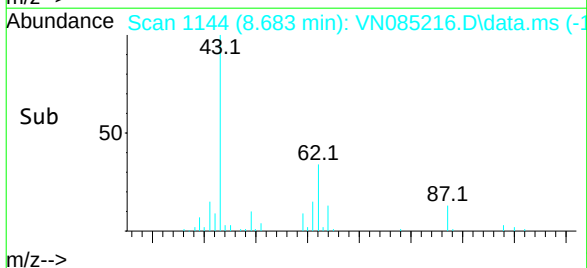
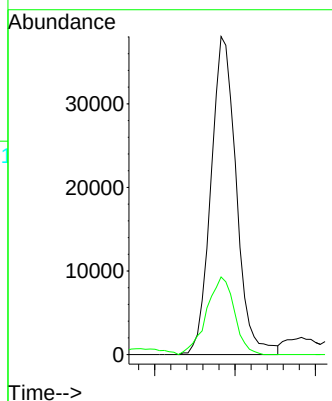
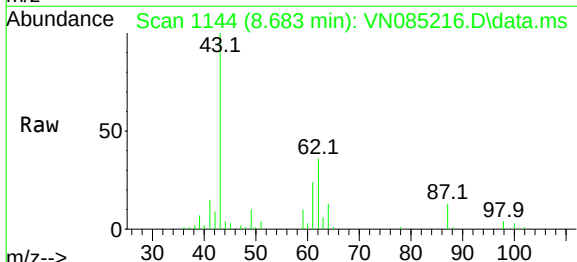
Manual Integrations
APPROVED

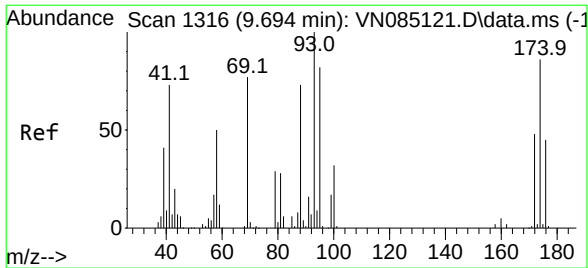
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#44
Isopropyl Acetate
Concen: 20.553 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

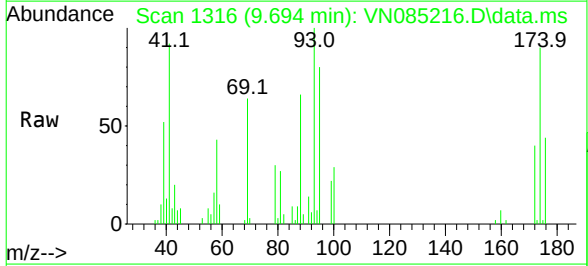
Tgt Ion: 43 Resp: 83434
Ion Ratio Lower Upper
43 100
61 26.7 21.5 32.3





#45
1,4-Dioxane
Concen: 410.991 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

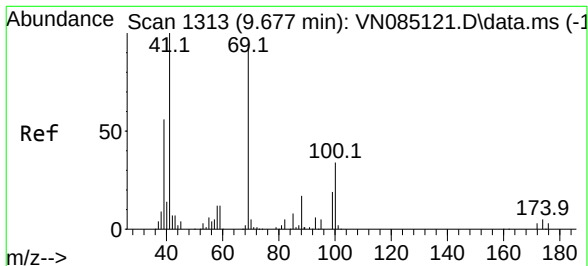
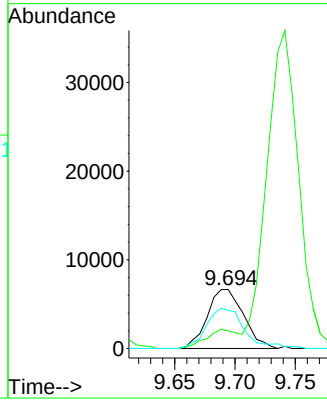
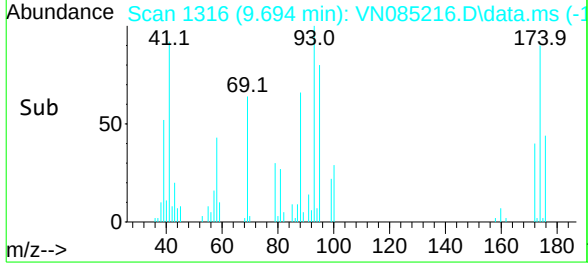
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



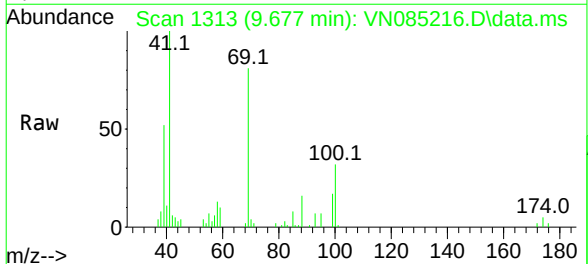
Tgt Ion: 88 Resp: 13913
Ion Ratio Lower Upper
88 100
43 30.1 21.7 32.5
58 68.9 52.6 79.0

Manual Integrations
APPROVED

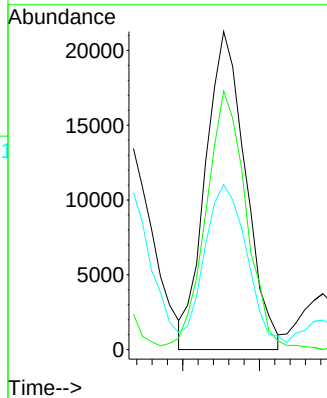
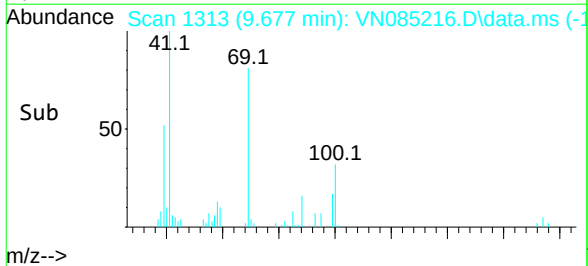
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024

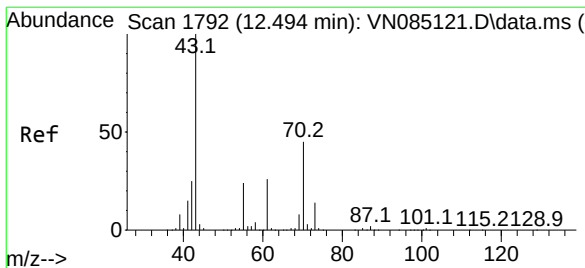


#46
Methyl methacrylate
Concen: 20.757 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33



Tgt Ion: 41 Resp: 38564
Ion Ratio Lower Upper
41 100
69 82.4 46.7 140.0
39 49.9 28.5 85.5





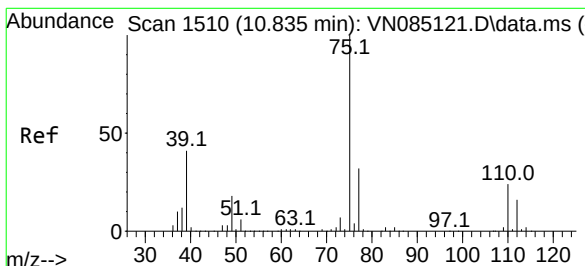
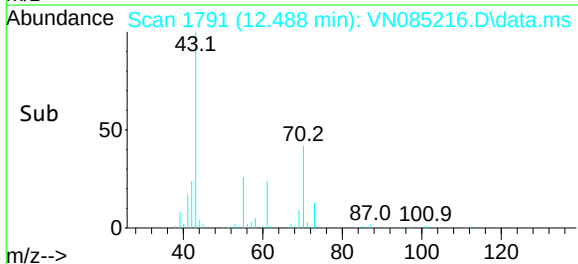
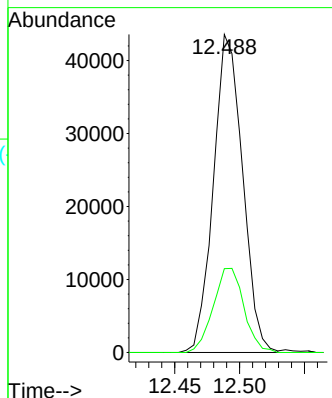
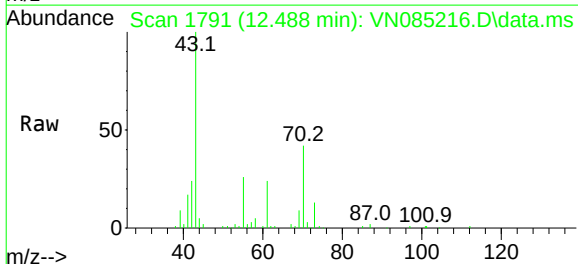
#47
n-amyl Acetate
Concen: 19.928 ug/l
RT: 12.488 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 43 Resp: 68064
Ion Ratio Lower Upper
43 100
55 27.8 23.3 34.9

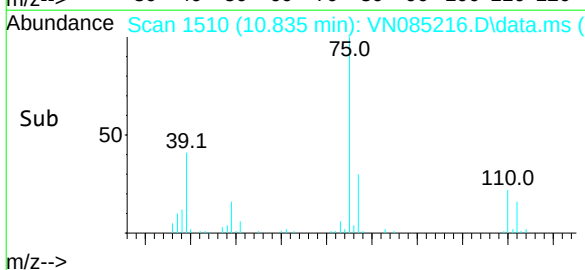
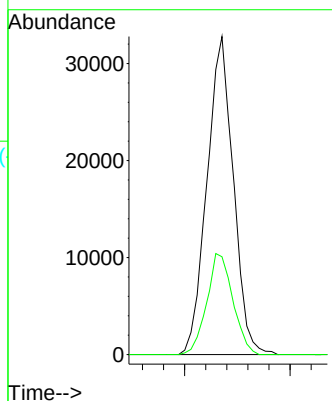
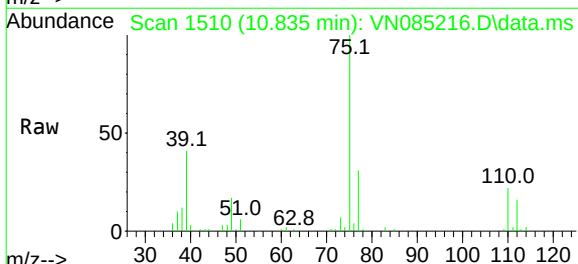
Manual Integrations
APPROVED

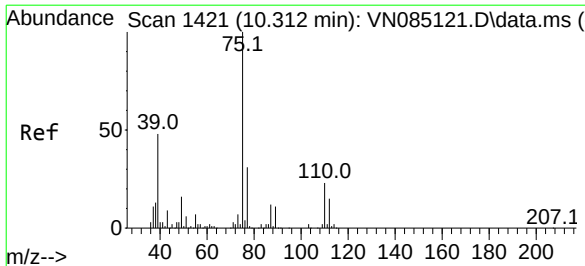
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#48
t-1,3-Dichloropropene
Concen: 19.447 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 75 Resp: 56984
Ion Ratio Lower Upper
75 100
77 30.8 25.5 38.3





#49

cis-1,3-Dichloropropene

Concen: 19.185 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

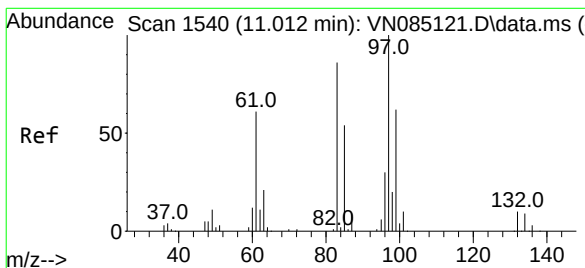
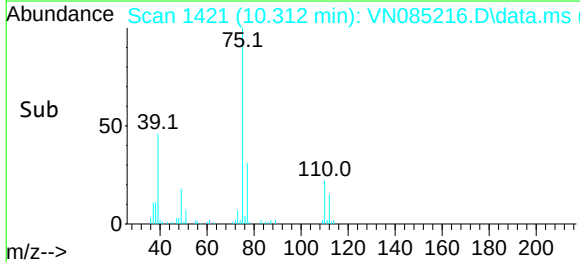
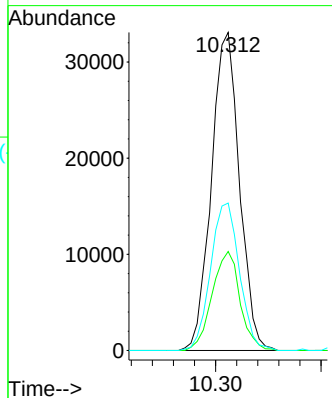
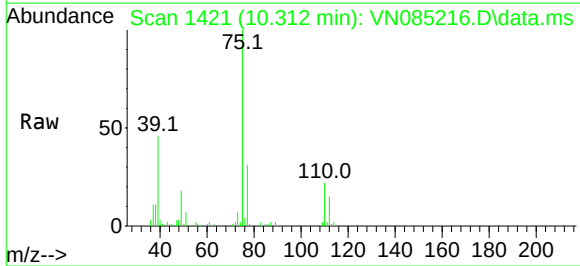
VSTDCCC020EC

Tgt Ion: 75	Resp: 61200
Ion Ratio	Lower Upper
75 100	
77 31.1	23.8 35.6
39 46.4	37.3 55.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#50

1,1,2-Trichloroethane

Concen: 20.106 ug/l

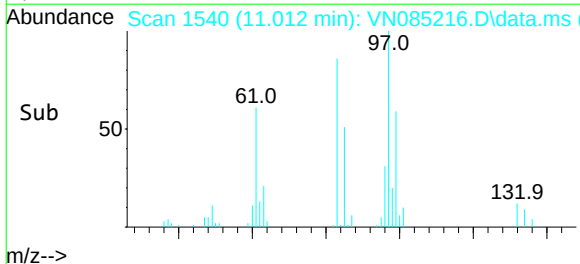
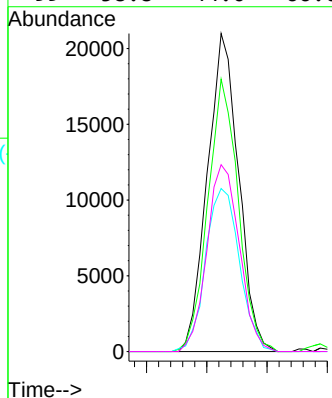
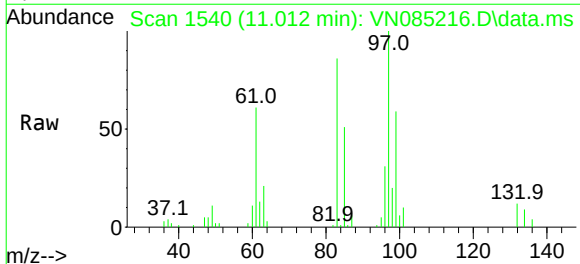
RT: 11.012 min Scan# 1540

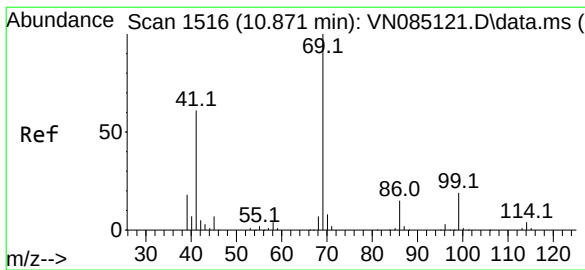
Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Tgt Ion: 97	Resp: 37831
Ion Ratio	Lower Upper
97 100	
83 85.7	65.8 98.8
85 51.3	40.8 61.2
99 58.8	44.0 66.0





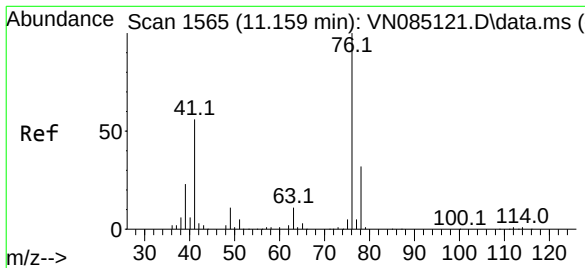
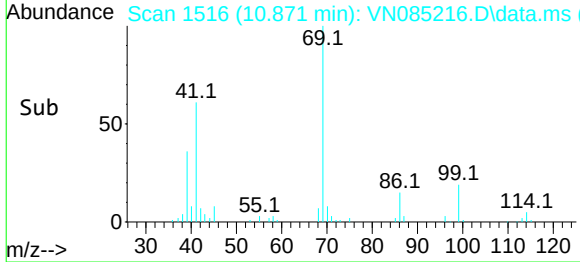
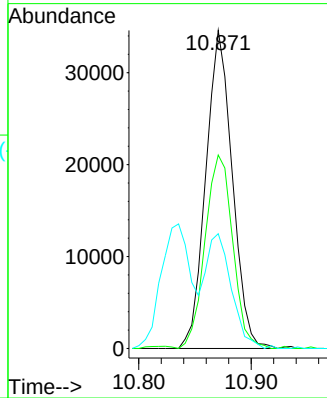
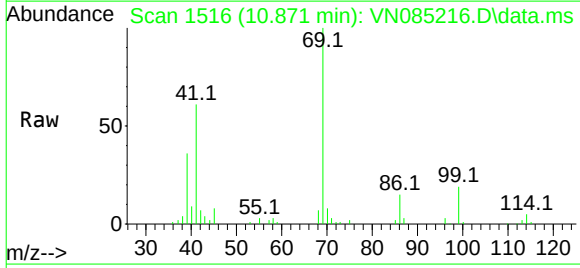
#51
Ethyl methacrylate
Concen: 19.790 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
69	100		
41	60.8	32.1	96.3
39	36.1	18.8	56.4

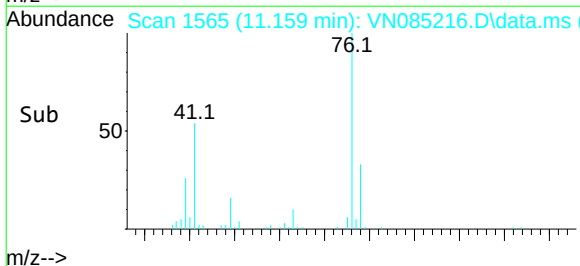
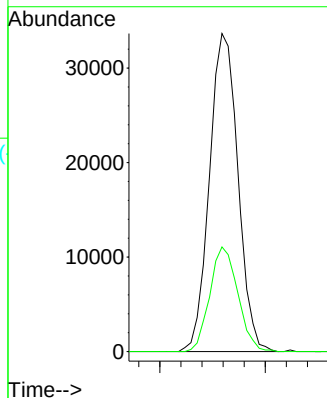
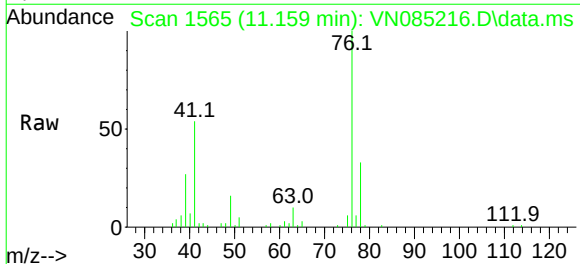
Manual Integrations
APPROVED

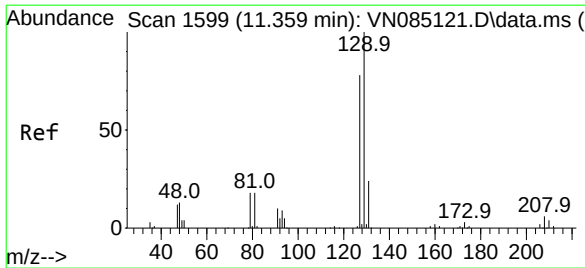
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#52
1,3-Dichloropropane
Concen: 20.068 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	65.6





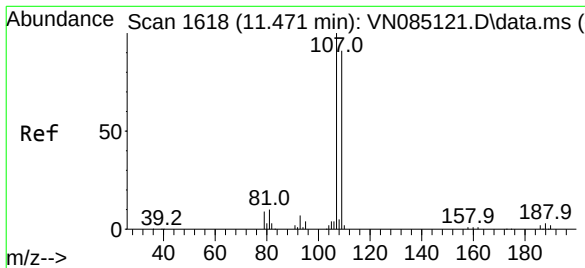
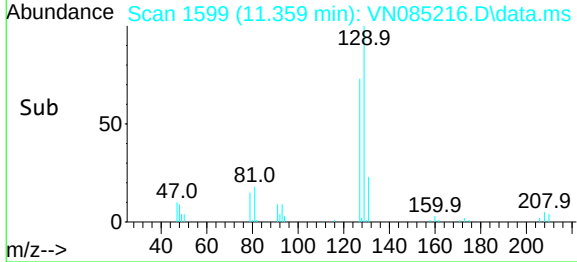
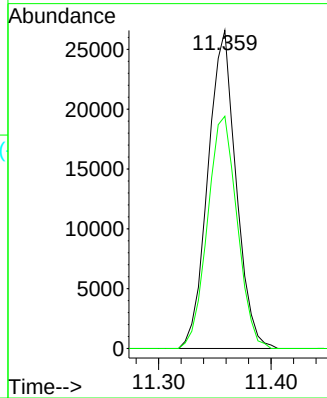
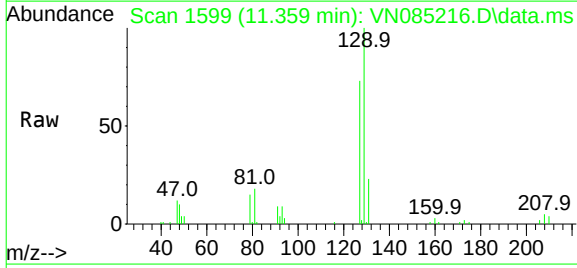
#53
Dibromochloromethane
Concen: 20.142 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:129 Resp: 46186
Ion Ratio Lower Upper
129 100
127 76.9 37.3 111.9

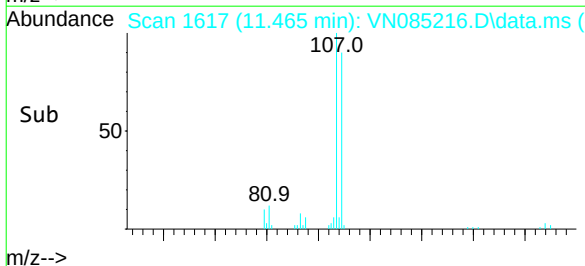
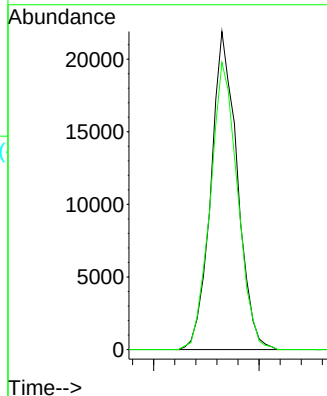
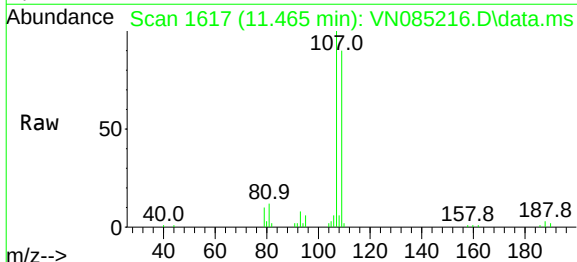
Manual Integrations
APPROVED

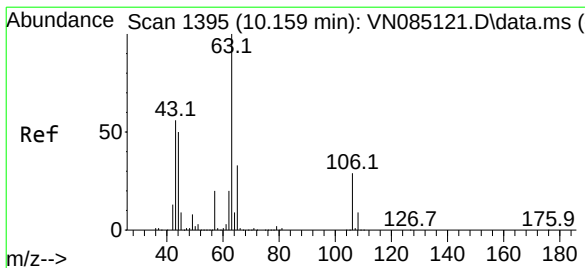
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#54
1,2-Dibromoethane
Concen: 19.998 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

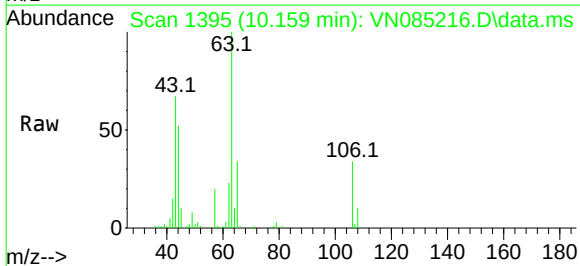
Tgt Ion:107 Resp: 37912
Ion Ratio Lower Upper
107 100
109 93.8 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 95.632 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

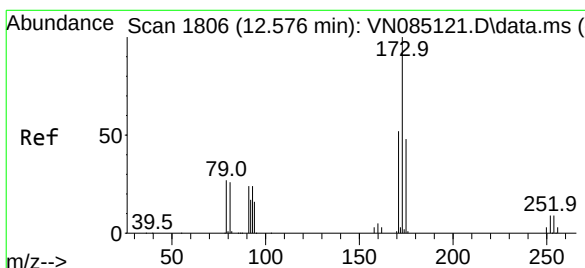
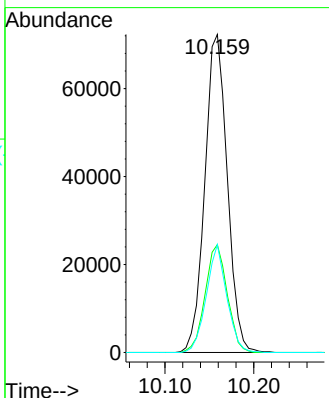
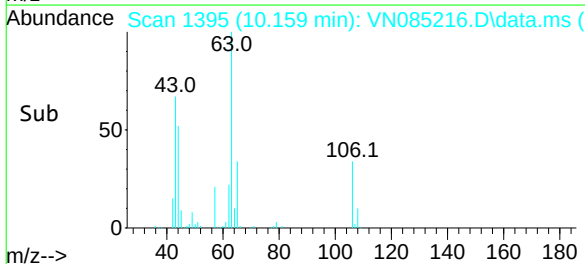
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



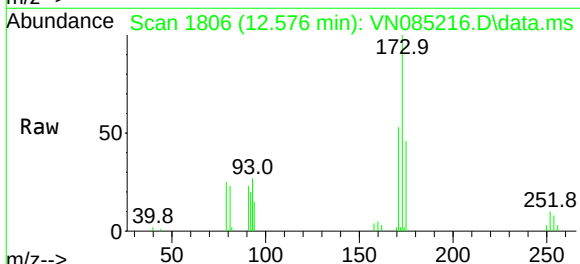
Tgt Ion: 63 Resp: 127137
Ion Ratio Lower Upper
63 100
65 33.3 25.9 38.9
106 30.8 23.5 35.3

Manual Integrations
APPROVED

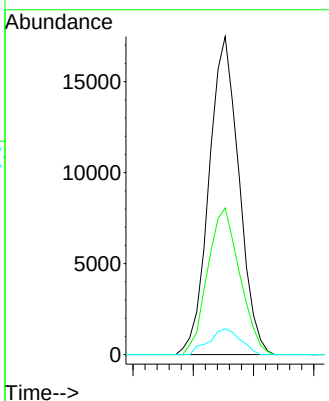
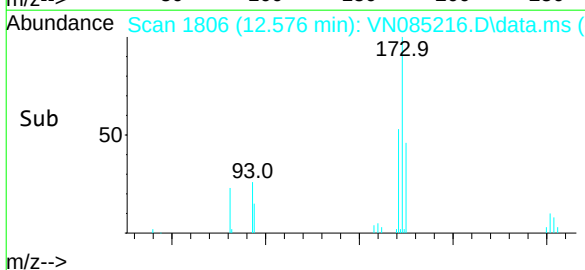
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024

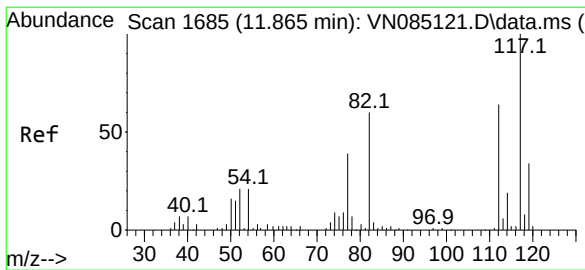


#56
Bromoform
Concen: 19.663 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33



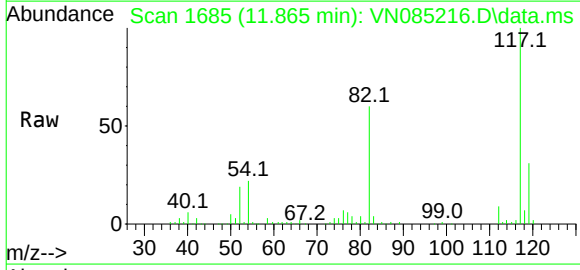
Tgt Ion:173 Resp: 30230
Ion Ratio Lower Upper
173 100
175 49.5 40.2 60.2
254 8.5 6.2 9.4





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

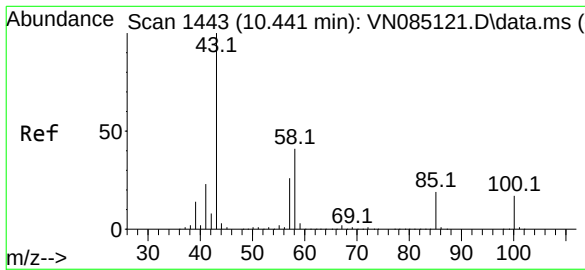
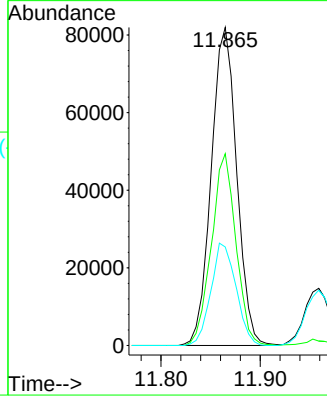
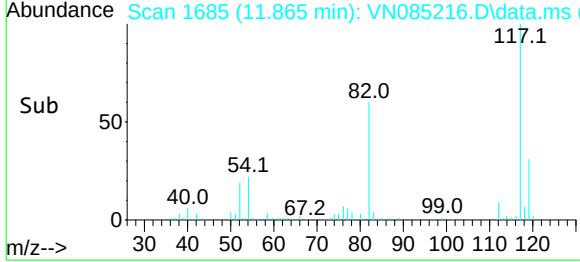
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 117 Resp: 146162
Ion Ratio Lower Upper
117 100
82 57.9 44.2 66.4
119 31.7 25.4 38.2

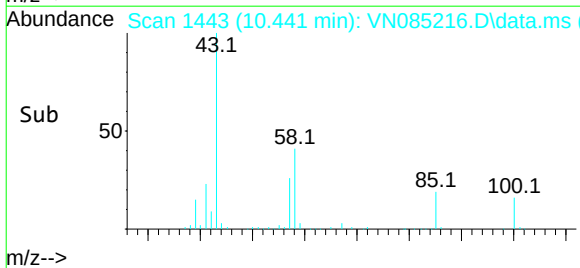
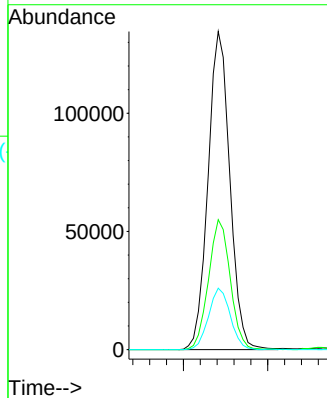
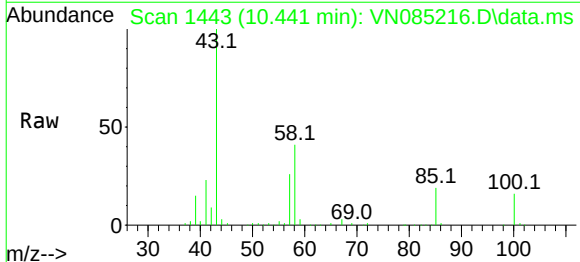
Manual Integrations
APPROVED

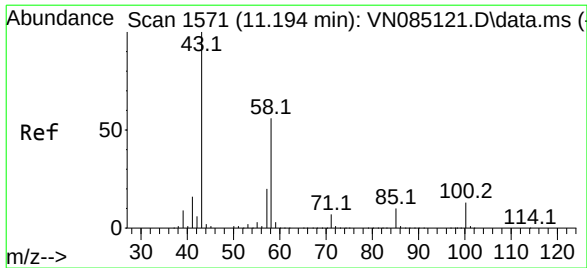
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#58
4-Methyl-2-Pentanone
Concen: 101.359 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

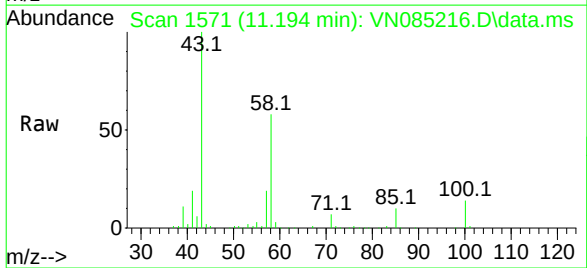
Tgt Ion: 43 Resp: 241784
Ion Ratio Lower Upper
43 100
58 40.7 31.6 47.4
85 19.2 15.0 22.6





#59
2-Hexanone
Concen: 99.918 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

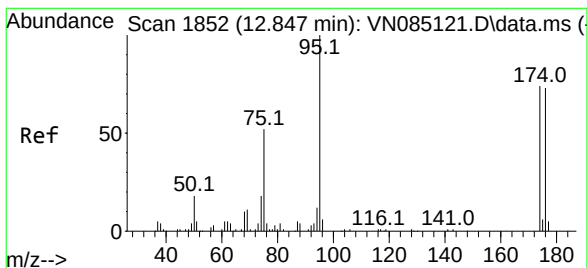
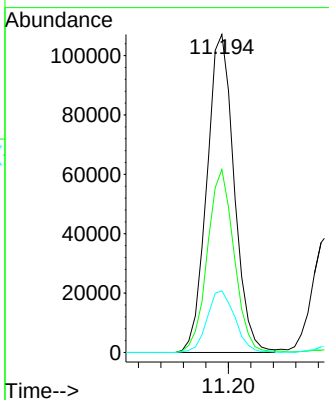
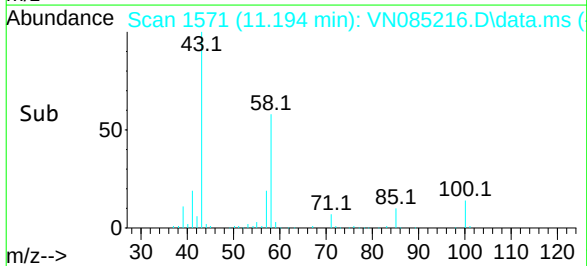
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



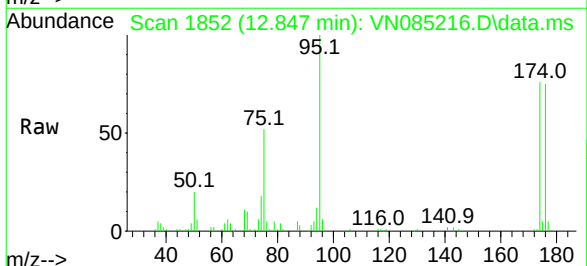
Tgt Ion: 43 Resp: 180597
Ion Ratio Lower Upper
43 100
58 56.1 43.6 65.4
57 19.7 15.4 23.0

Manual Integrations
APPROVED

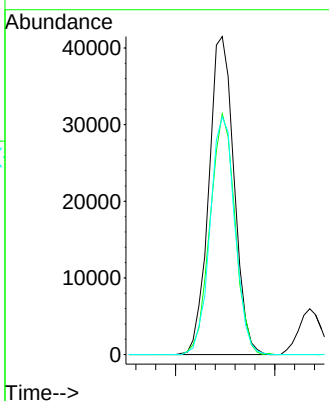
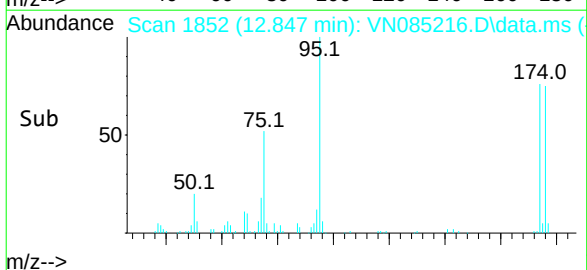
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024

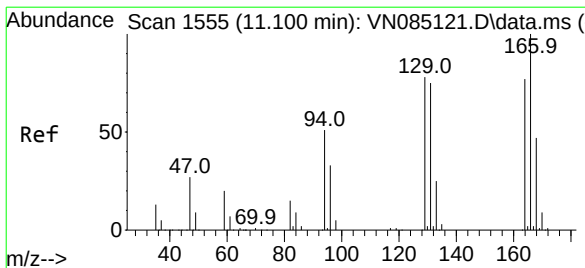


#60
4-Bromofluorobenzene
Concen: 30.335 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33



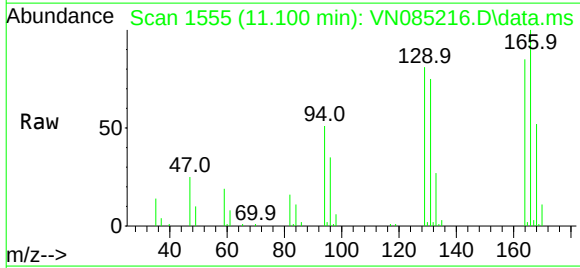
Tgt Ion: 95 Resp: 73363
Ion Ratio Lower Upper
95 100
174 74.4 60.3 90.5
176 73.4 57.4 86.0





#61
Tetrachloroethene
Concen: 20.047 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

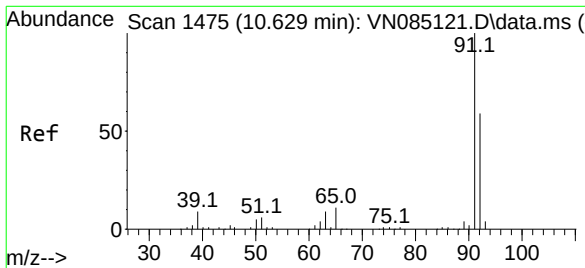
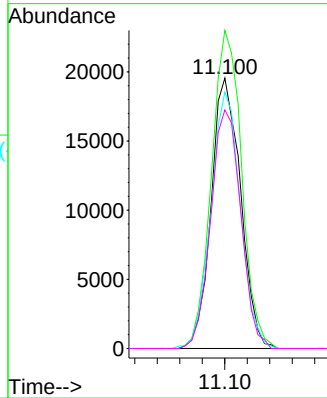
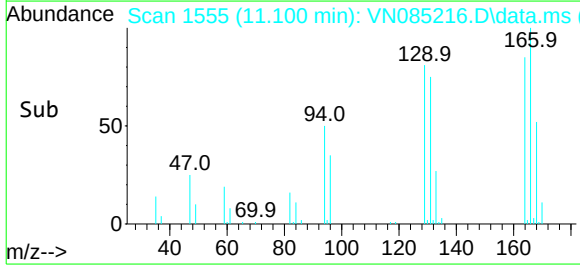
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:164 Resp: 35484
Ion Ratio Lower Upper
164 100
166 117.6 103.8 155.8
129 94.8 84.2 126.4
131 88.2 84.1 126.1

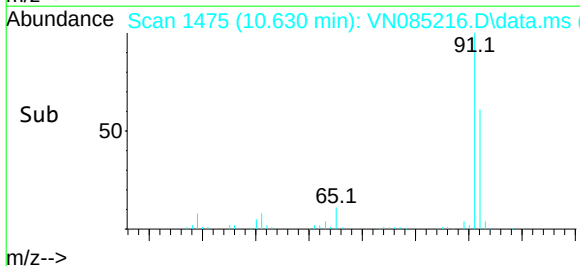
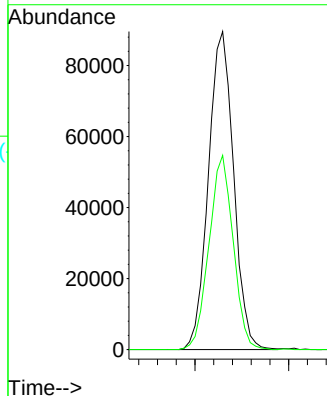
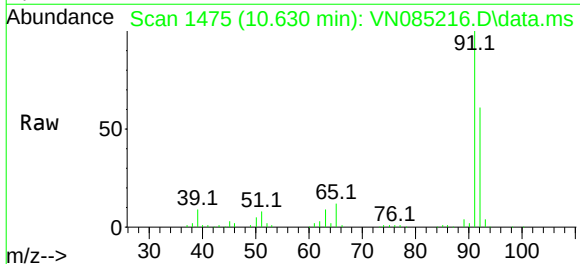
Manual Integrations
APPROVED

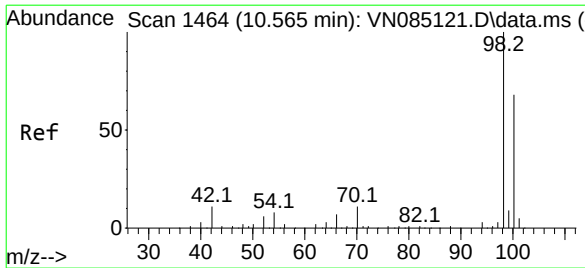
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#62
Toluene
Concen: 19.603 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 91 Resp: 167102
Ion Ratio Lower Upper
91 100
92 58.7 46.5 69.7





#63

Toluene-d8

Concen: 29.742 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 98 Resp: 203918

Ion Ratio Lower Upper

98 100

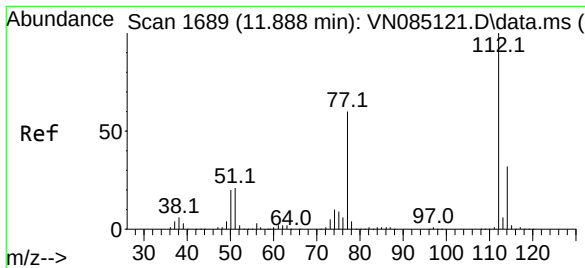
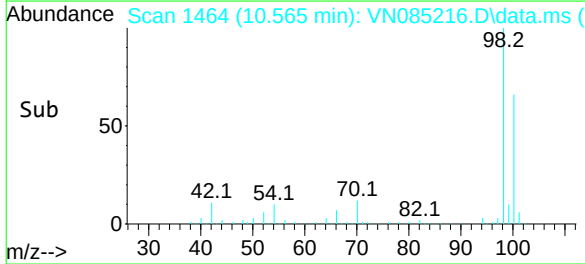
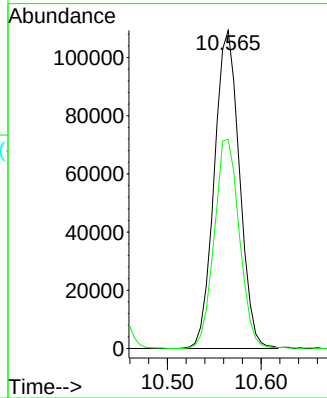
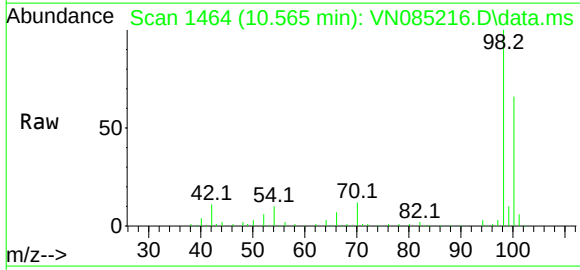
100 65.7 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024

Supervised By :Semsettin Yesilyurt 12/17/2024



#64

Chlorobenzene

Concen: 20.374 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085216.D

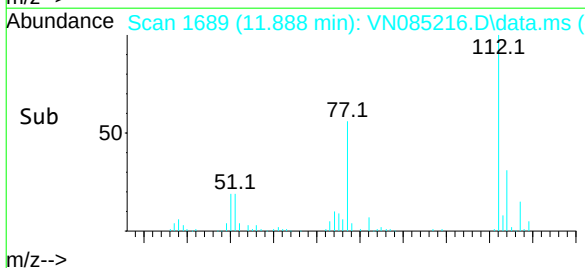
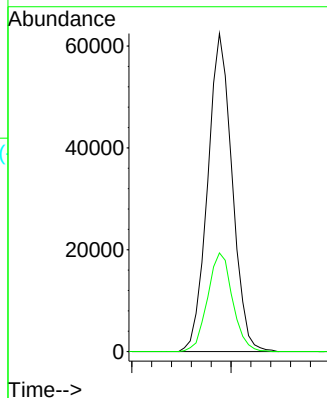
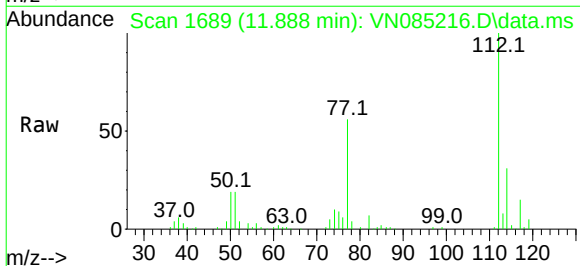
Acq: 16 Dec 2024 16:33

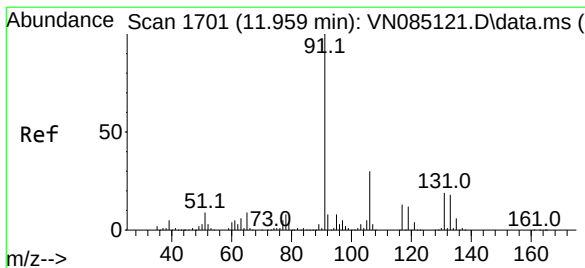
Tgt Ion:112 Resp: 107226

Ion Ratio Lower Upper

112 100

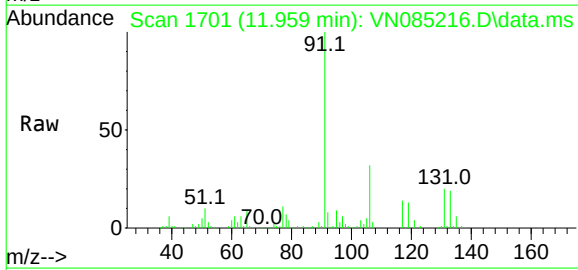
114 31.0 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 19.821 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

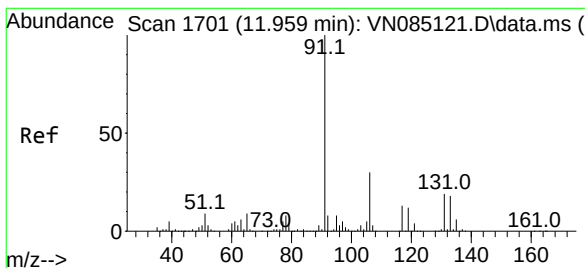
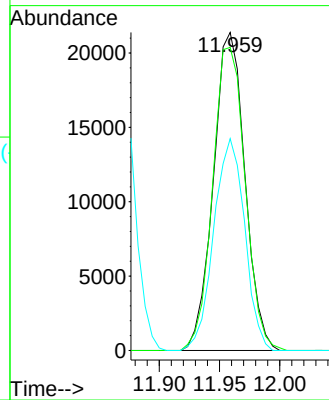
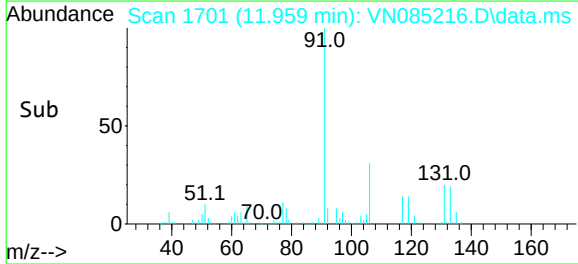
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



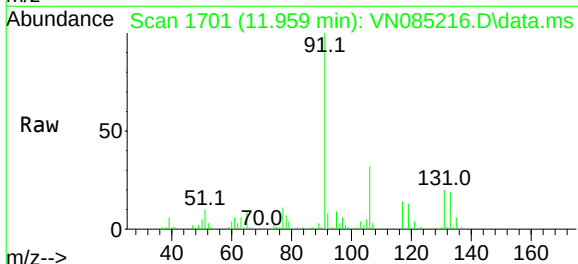
Tgt Ion: 131 Resp: 38942
Ion Ratio Lower Upper
131 100
133 98.1 0.0 194.0
119 65.3 0.0 131.8

Manual Integrations
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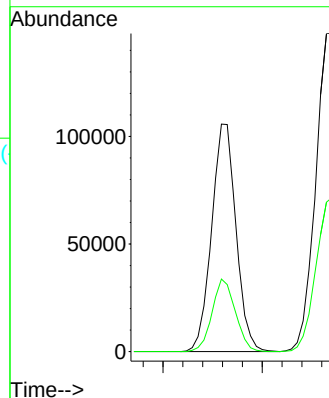
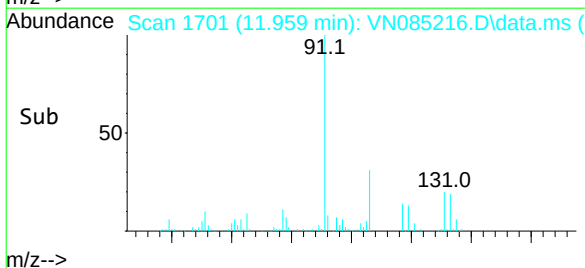
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024

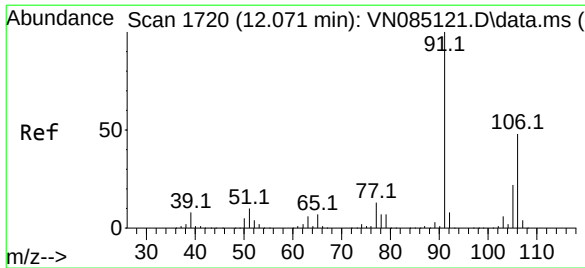


#66
Ethyl Benzene
Concen: 19.992 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33



Tgt Ion: 91 Resp: 180830
Ion Ratio Lower Upper
91 100
106 31.9 23.1 34.7





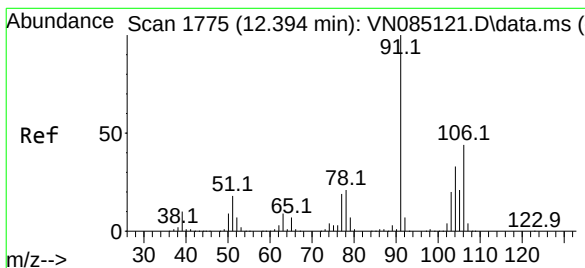
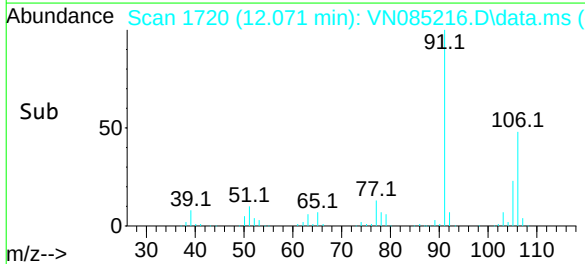
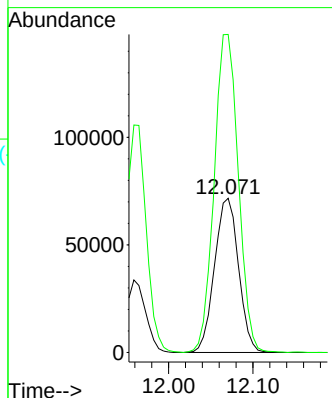
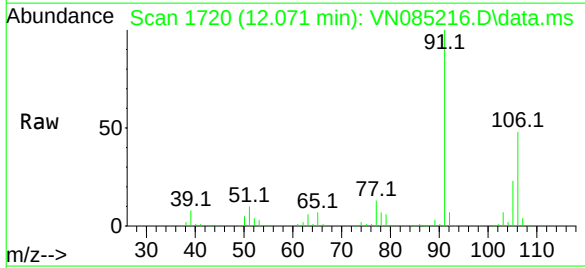
#67
m/p-Xylenes
Concen: 40.773 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:106 Resp: 141848
Ion Ratio Lower Upper
106 100
91 207.4 165.0 247.4

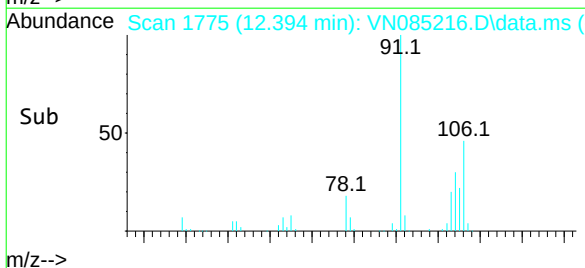
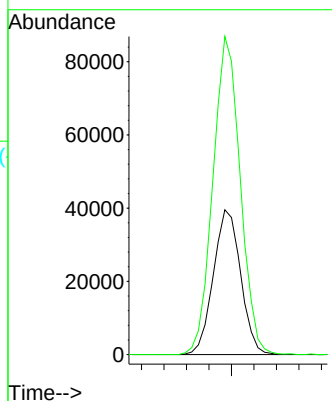
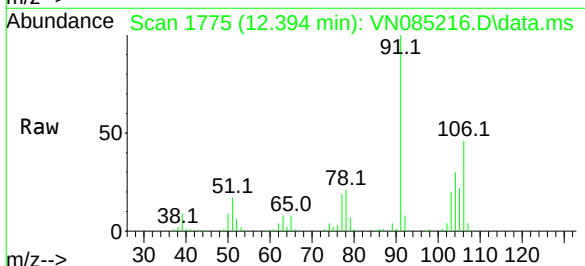
Manual Integrations
APPROVED

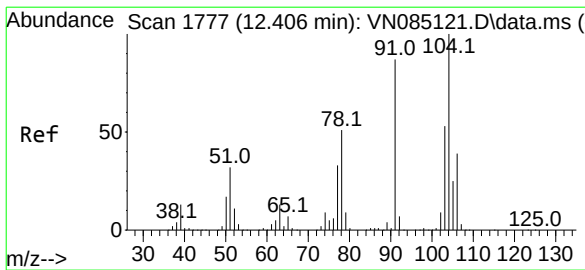
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#68
o-Xylene
Concen: 20.398 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:106 Resp: 66647
Ion Ratio Lower Upper
106 100
91 220.1 112.1 336.4





#69

Styrene

Concen: 20.189 ug/l

RT: 12.412 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

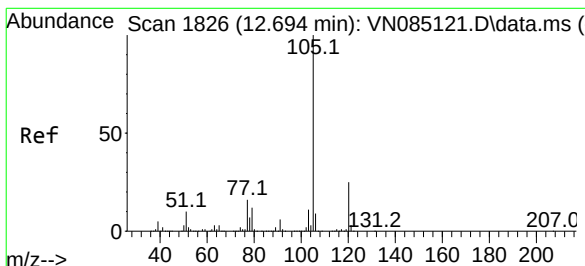
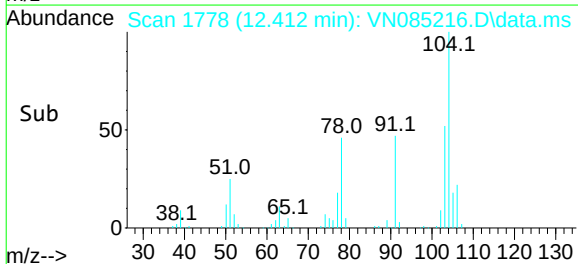
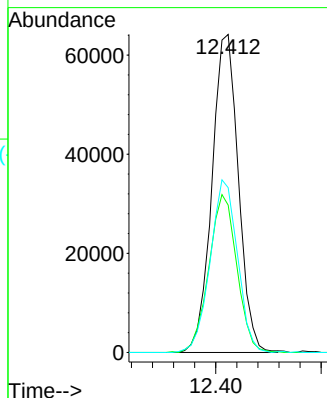
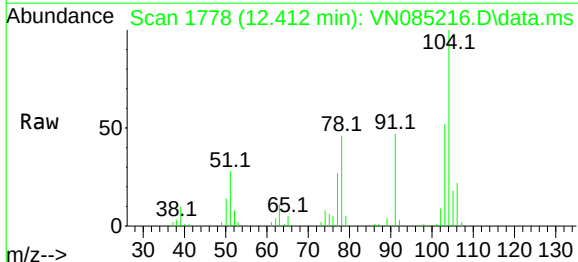
VSTDCCC020EC

Tgt	Ion:104	Resp:	111932
Ion	Ratio	Lower	Upper
104	100		
78	52.4	42.3	63.5
103	56.0	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#70

Isopropylbenzene

Concen: 20.146 ug/l

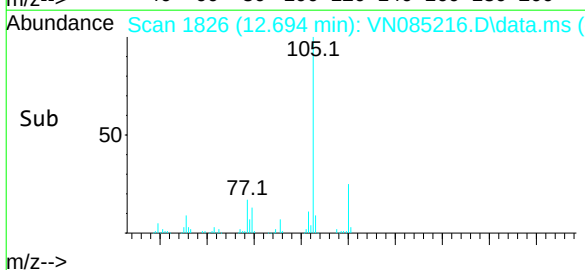
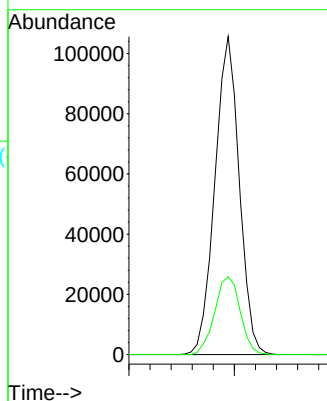
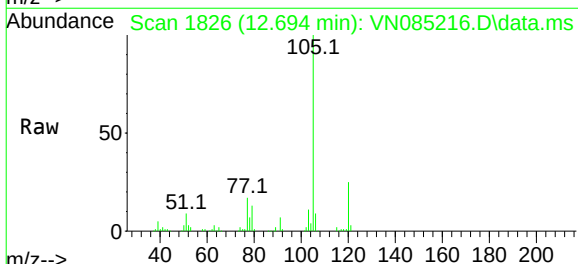
RT: 12.694 min Scan# 1826

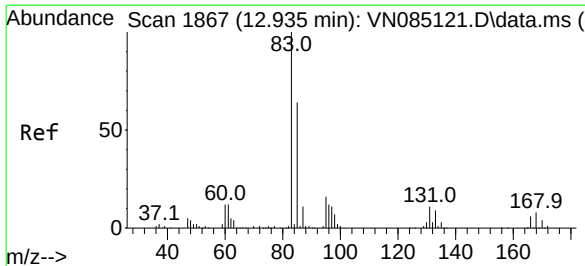
Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Tgt	Ion:105	Resp:	169768
Ion	Ratio	Lower	Upper
105	100		
120	25.6	18.3	33.9





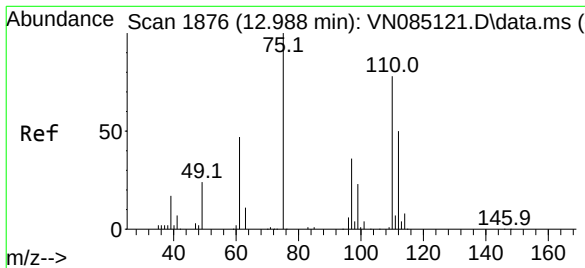
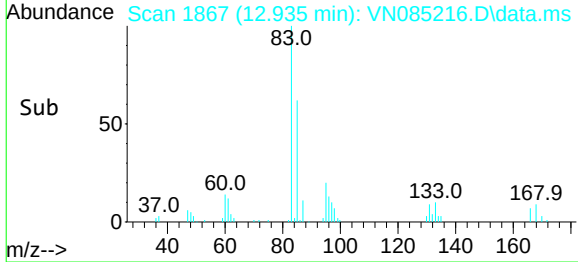
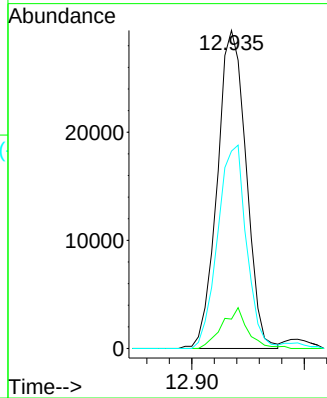
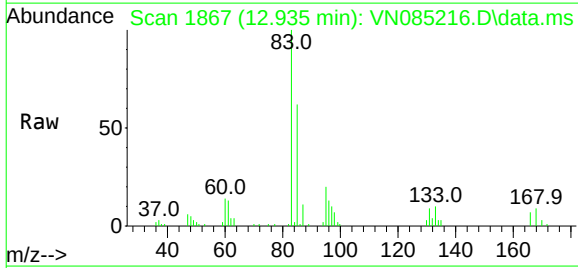
#71
1,1,2,2-Tetrachloroethane
Concen: 20.416 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	83	Resp	52367
Ion	Ratio	Lower	Upper
83	100		
131	11.3	5.1	15.3
85	63.6	31.1	93.5

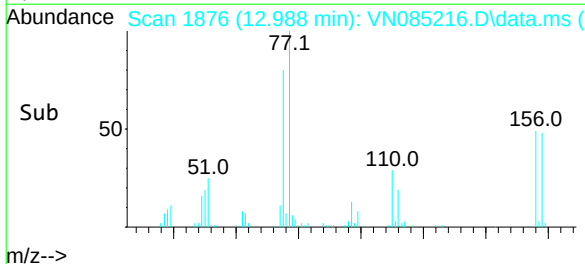
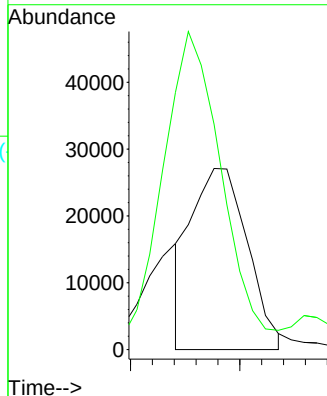
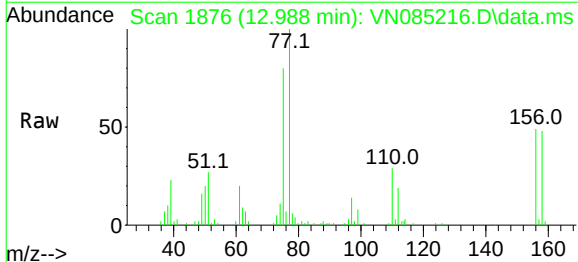
Manual Integrations
APPROVED

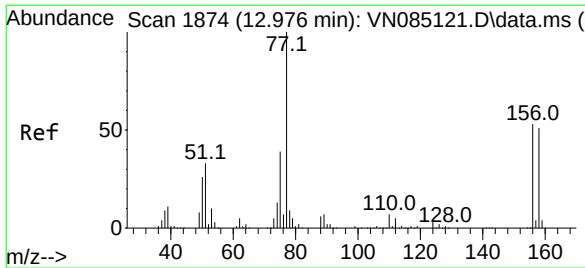
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#72
1,2,3-Trichloropropane
Concen: 19.108 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion	75	Resp	48416
Ion	Ratio	Lower	Upper
75	100		
77	188.0	0.0	339.0





#73

Bromobenzene

Concen: 20.542 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

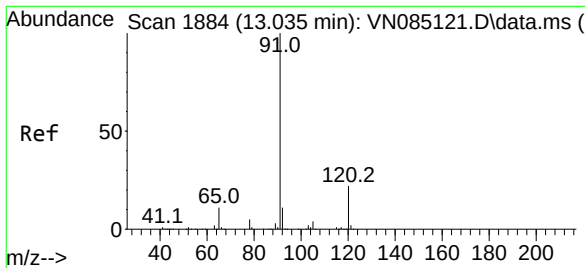
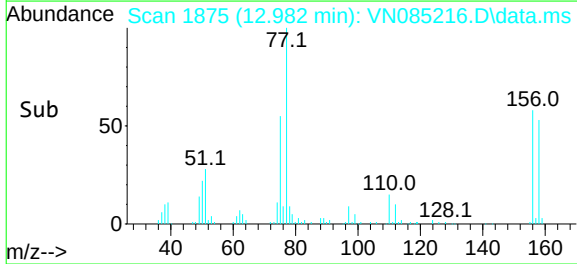
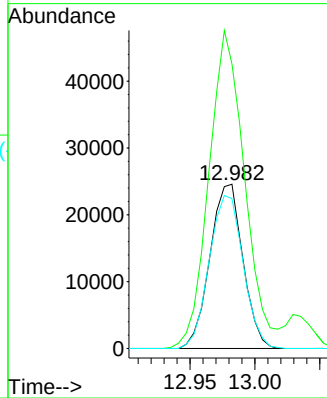
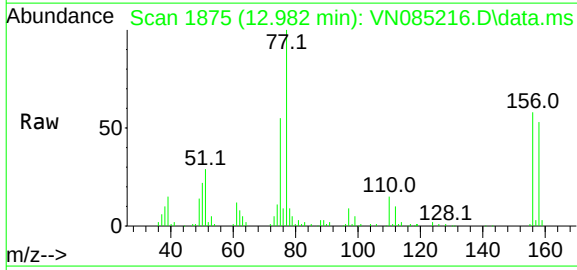
VSTDCCC020EC

Tgt Ion:	156	Resp:	43360
Ion Ratio	Lower	Upper	
156	100		
77	210.0	0.0	430.4
158	96.3	0.0	195.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#74

n-propylbenzene

Concen: 20.162 ug/l

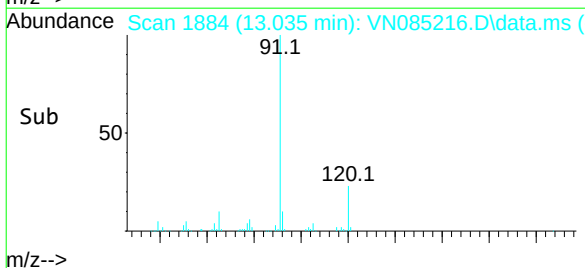
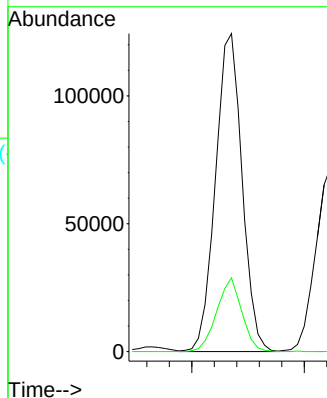
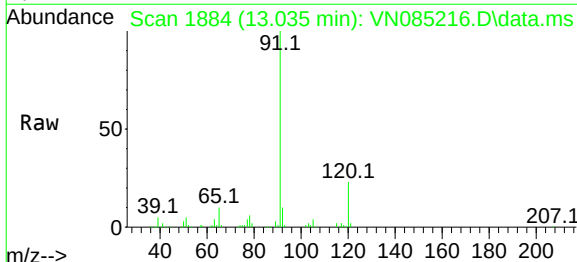
RT: 13.035 min Scan# 1884

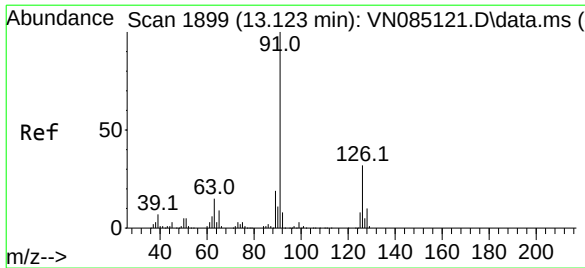
Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Tgt Ion:	91	Resp:	204268
Ion Ratio	Lower	Upper	
91	100		
120	21.7	0.0	44.0





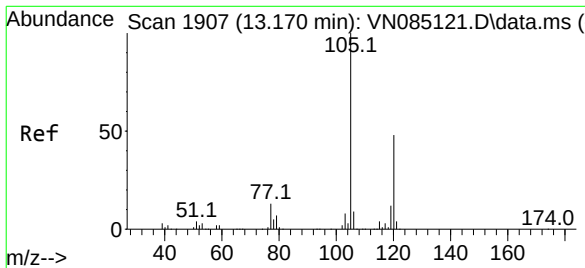
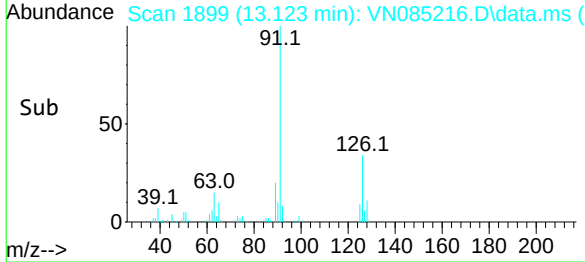
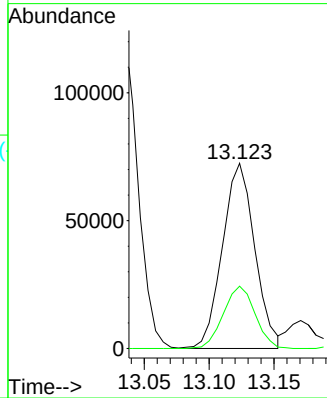
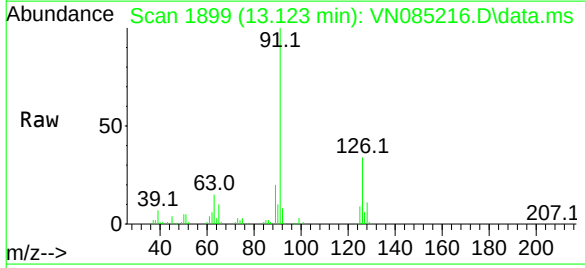
#75
2-Chlorotoluene
Concen: 20.066 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 91 Resp: 125691
Ion Ratio Lower Upper
91 100
126 33.0 0.0 64.2

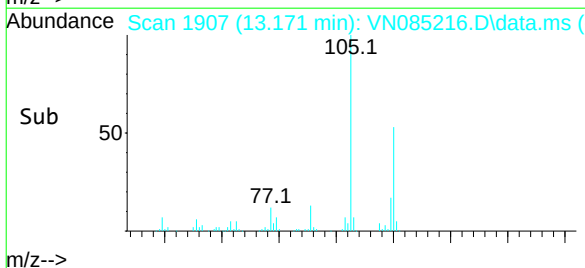
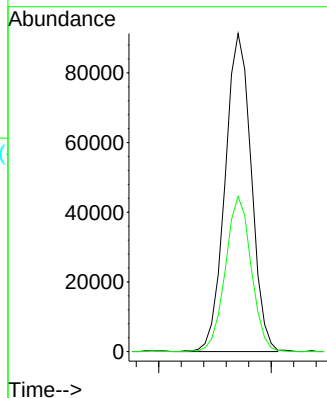
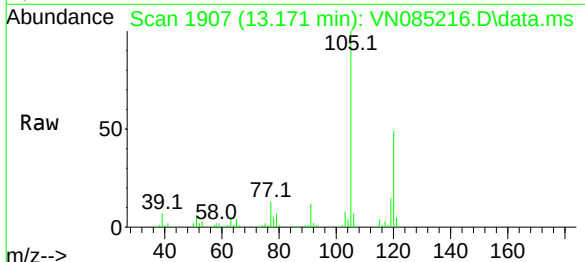
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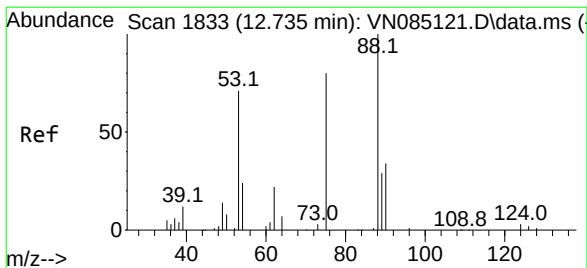
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#76
1,3,5-Trimethylbenzene
Concen: 20.451 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:105 Resp: 147652
Ion Ratio Lower Upper
105 100
120 47.9 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 18.797 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085216.D

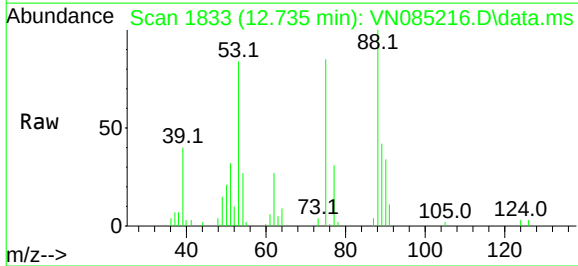
Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC



Tgt Ion: 75 Resp: 17306

Ion Ratio Lower Upper

75 100

53 98.0 49.1 147.3

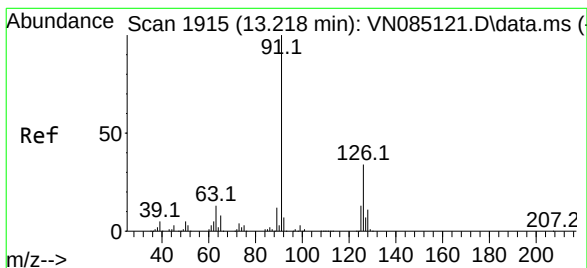
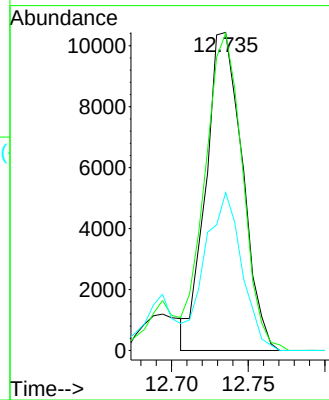
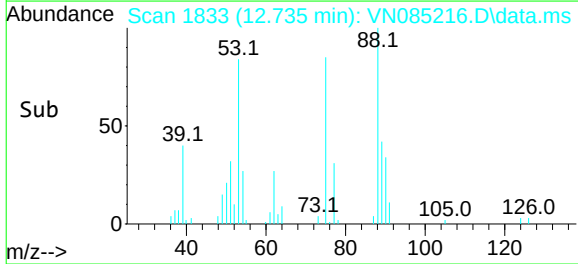
89 49.6 22.9 68.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024

Supervised By :Semsettin Yesilyurt 12/17/2024



#78

4-Chlorotoluene

Concen: 20.129 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN085216.D

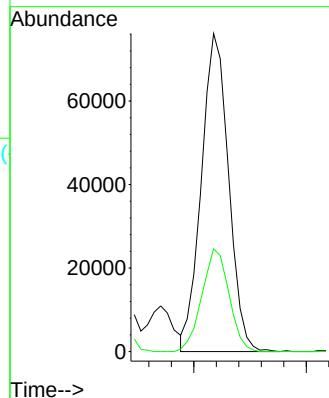
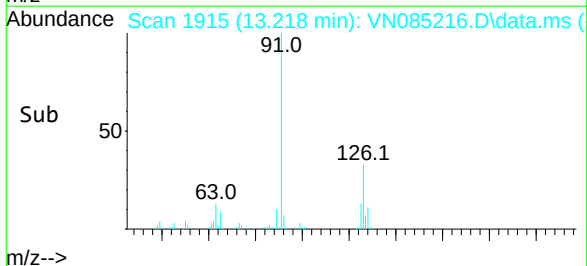
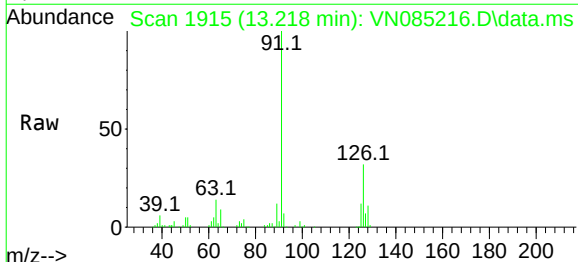
Acq: 16 Dec 2024 16:33

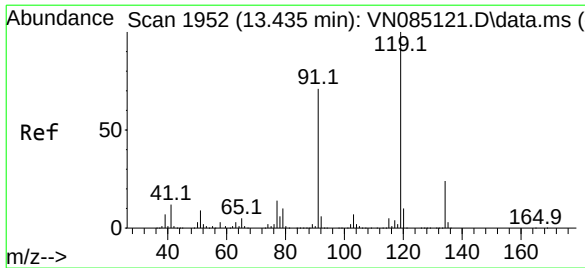
Tgt Ion: 91 Resp: 127980

Ion Ratio Lower Upper

91 100

126 32.2 0.0 64.4





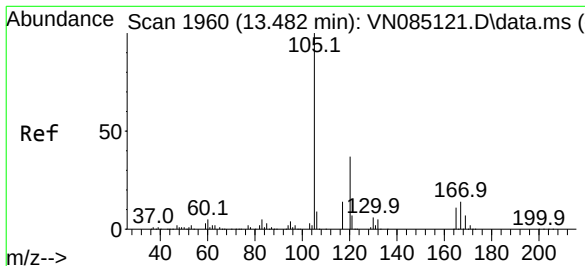
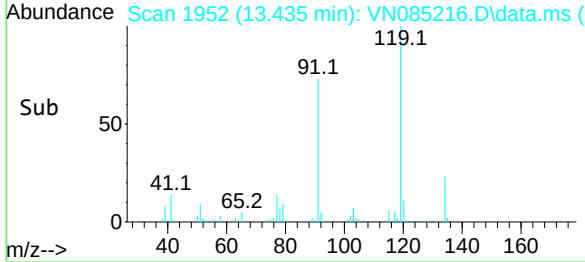
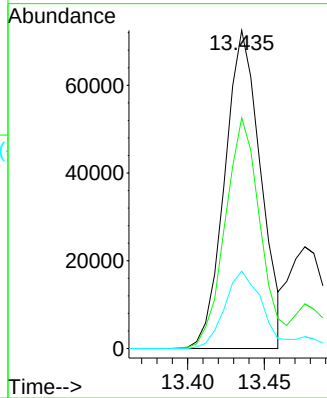
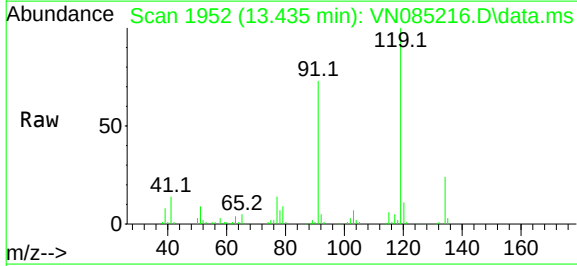
#79
tert-butylbenzene
Concen: 19.923 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:119 Resp: 118141
Ion Ratio Lower Upper
119 100
91 71.4 0.0 139.2
134 25.1 0.0 48.0

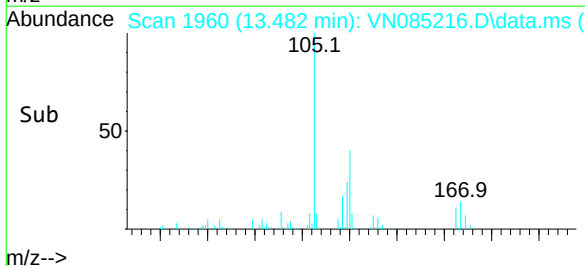
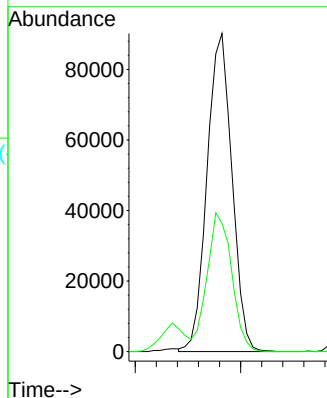
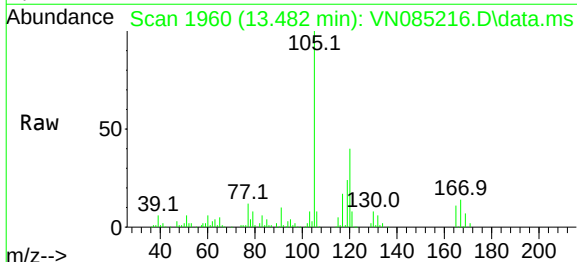
Manual Integrations
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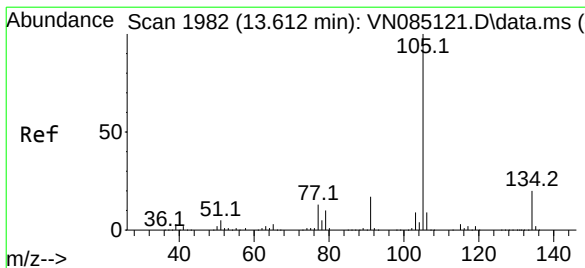
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#80
1,2,4-Trimethylbenzene
Concen: 20.790 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

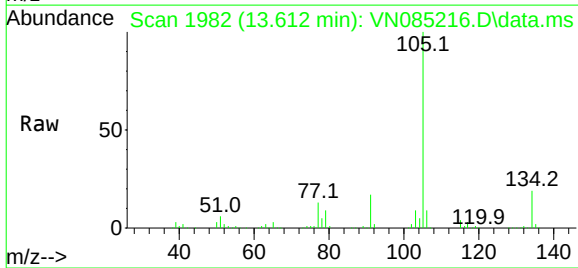
Tgt Ion:105 Resp: 148267
Ion Ratio Lower Upper
105 100
120 43.0 0.0 87.4





#81
sec-Butylbenzene
Concen: 20.111 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

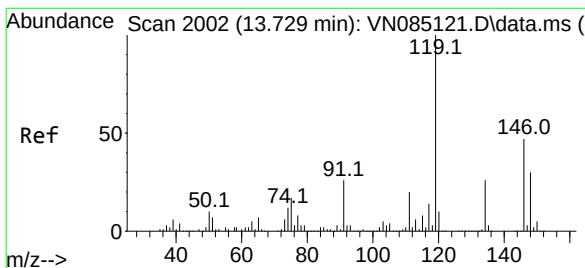
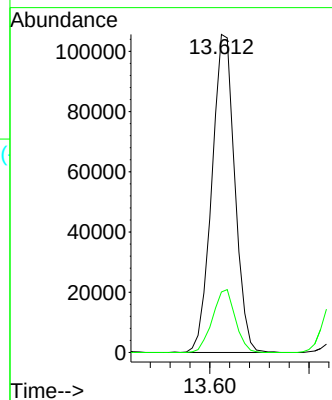
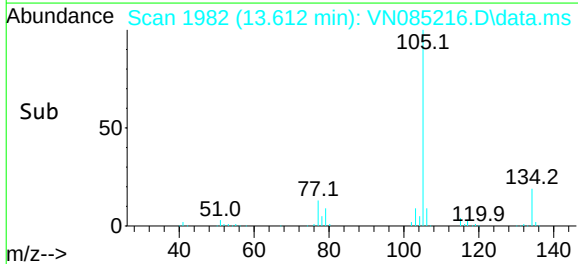
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:105 Resp: 169428
Ion Ratio Lower Upper
105 100
134 19.7 0.0 38.0

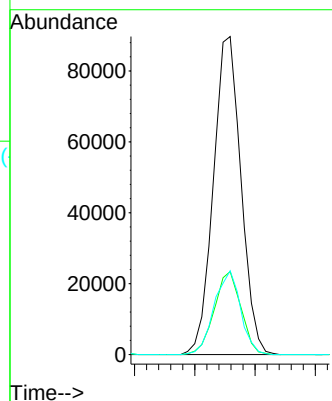
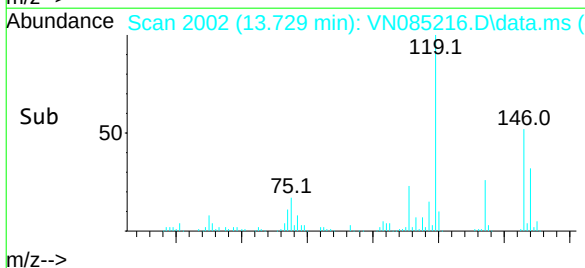
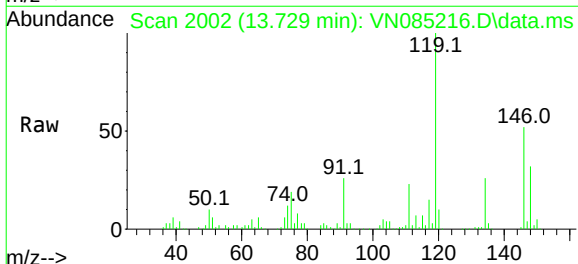
Manual Integrations
APPROVED

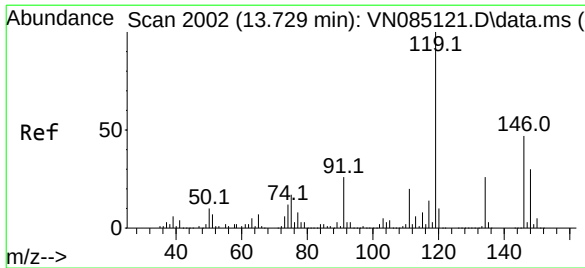
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#82
p-Isopropyltoluene
Concen: 20.444 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:119 Resp: 142796
Ion Ratio Lower Upper
119 100
134 25.3 0.0 51.6
91 25.2 0.0 50.4





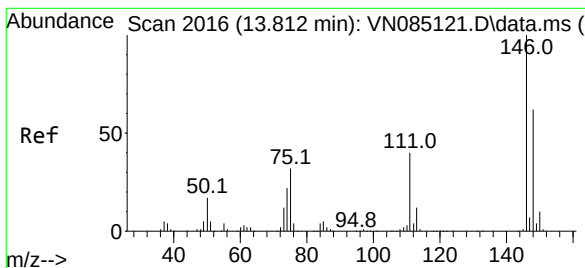
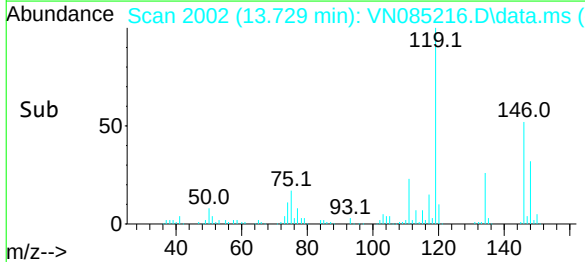
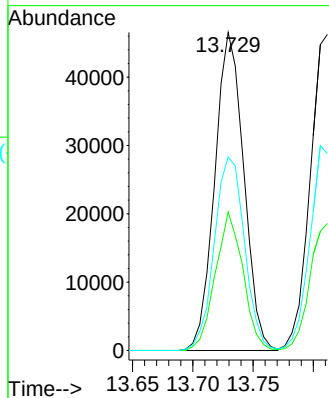
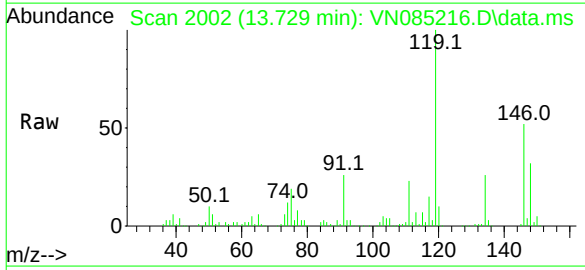
#83
1,3-Dichlorobenzene
Concen: 20.134 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.1	63.3
148	63.4	31.8	95.3

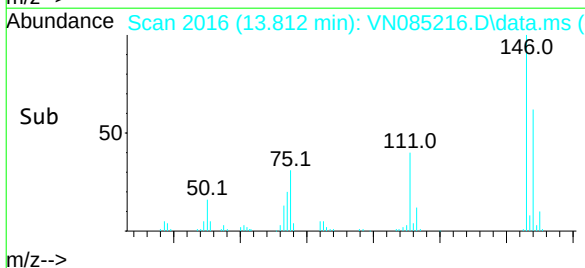
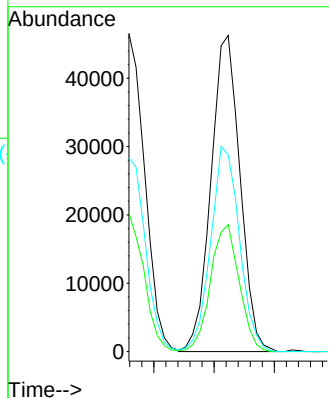
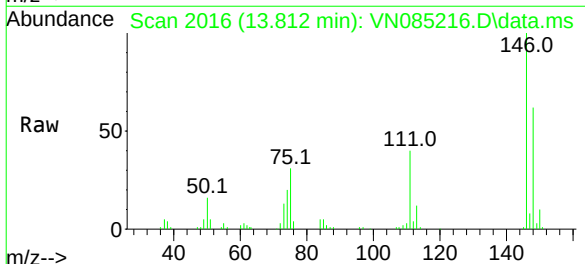
Manual Integrations
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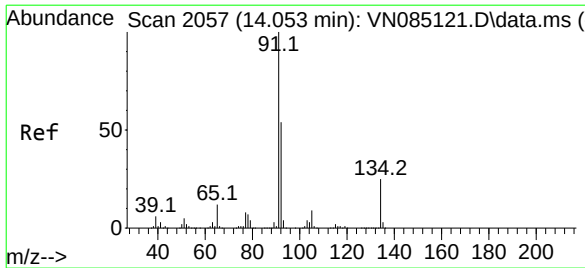
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#84
1,4-Dichlorobenzene
Concen: 20.546 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.1	60.3
148	64.3	31.6	94.7





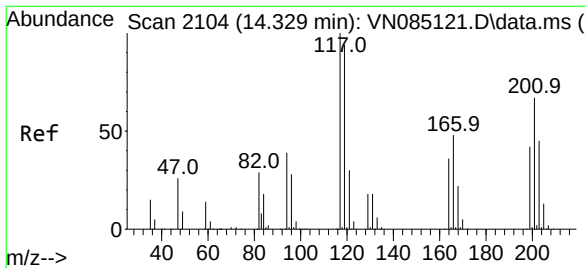
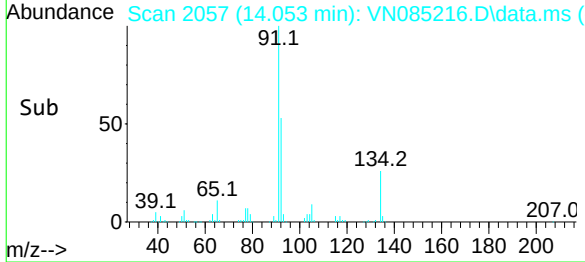
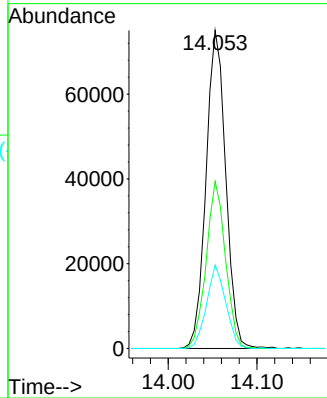
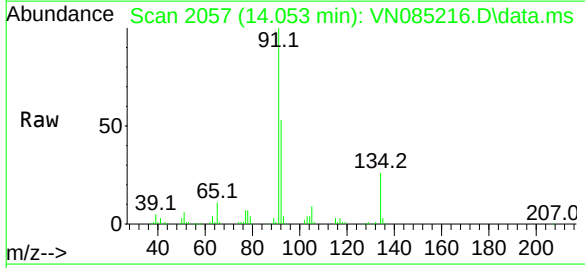
#85
n-Butylbenzene
Concen: 19.773 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:	91	Resp:	115848
Ion	Ratio	Lower	Upper
91	100		
92	51.5	0.0	104.0
134	25.5	0.0	49.2

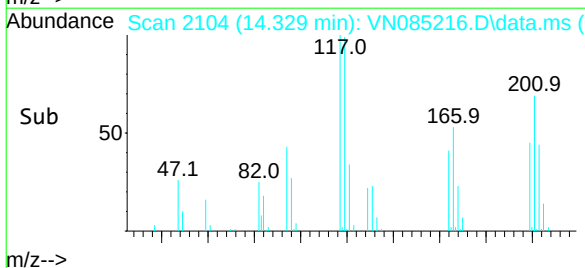
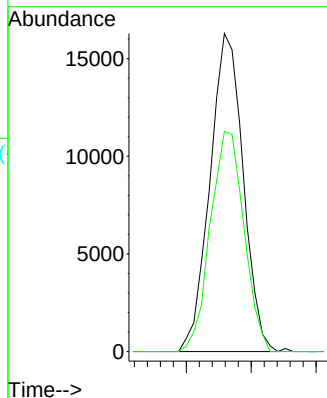
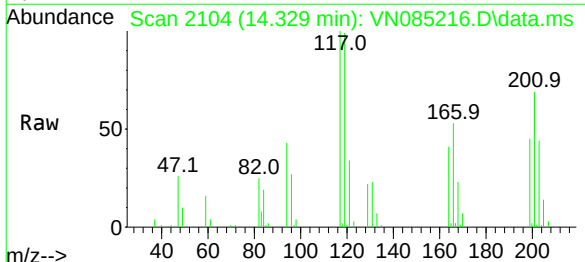
Manual Integrations
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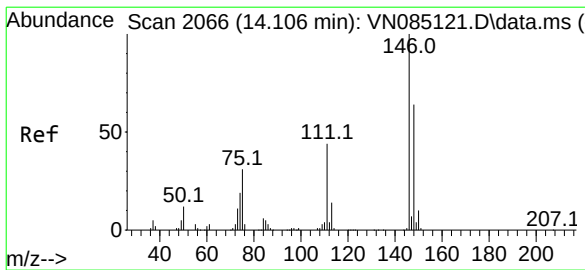
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#86
Hexachloroethane
Concen: 20.814 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:	117	Resp:	28941
Ion	Ratio	Lower	Upper
117	100		
201	70.2	34.1	102.3





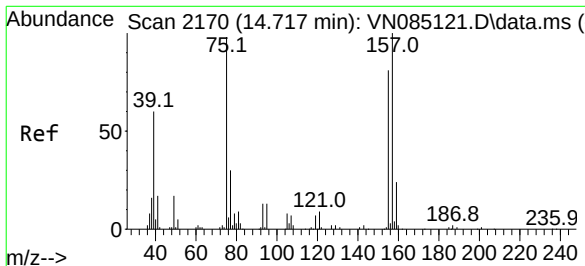
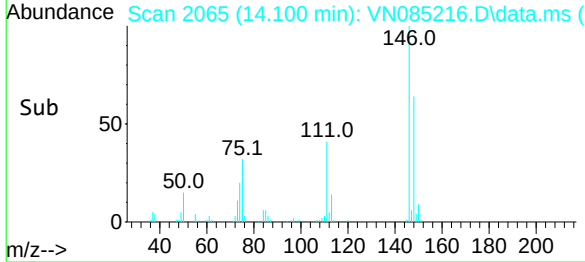
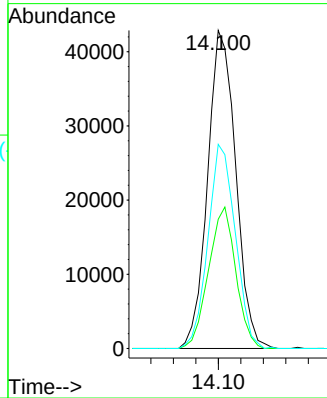
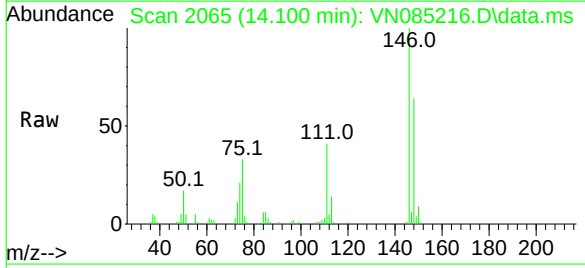
#87
1,2-Dichlorobenzene
Concen: 20.380 ug/l
RT: 14.100 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:146 Resp: 74498
Ion Ratio Lower Upper
146 100
111 43.1 21.9 65.7
148 62.5 32.4 97.0

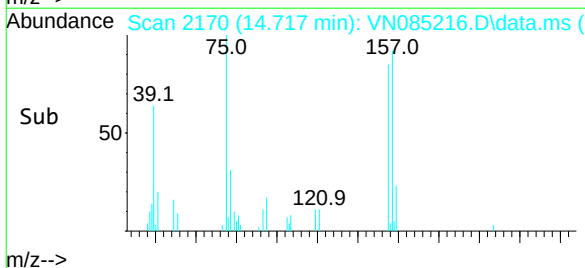
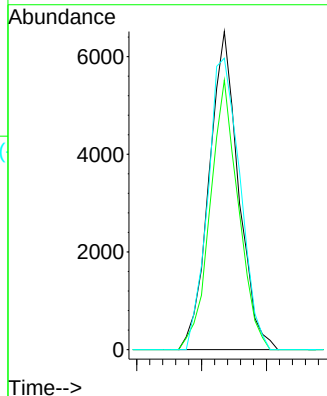
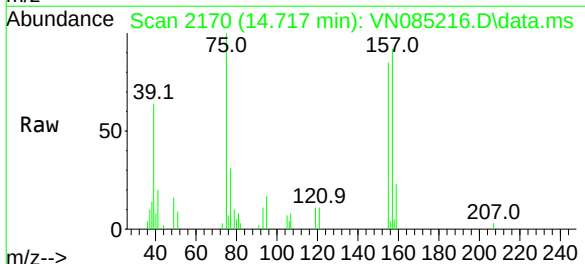
Manual Integrations
APPROVED

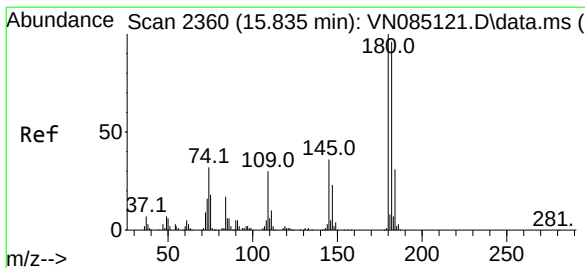
Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 20.062 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 75 Resp: 10280
Ion Ratio Lower Upper
75 100
155 81.4 62.1 93.1
157 100.1 79.3 118.9





#89

1,2,4-Trichlorobenzene

Concen: 19.481 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

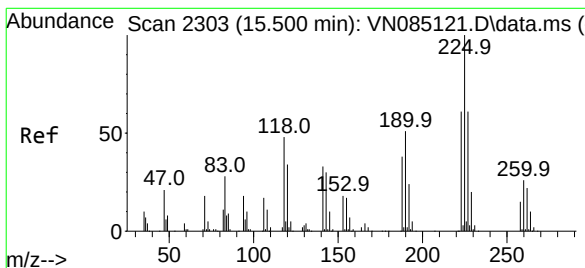
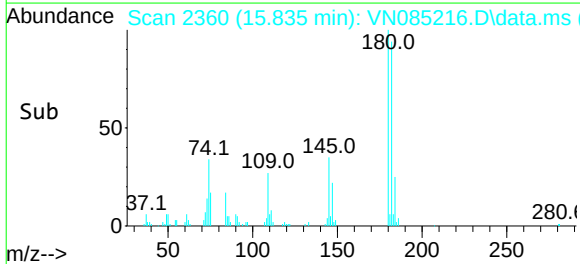
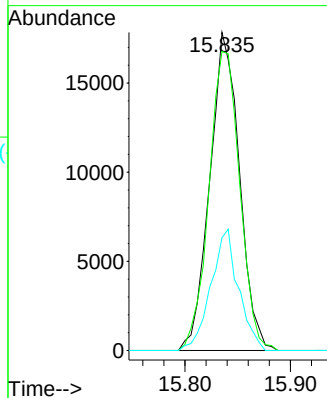
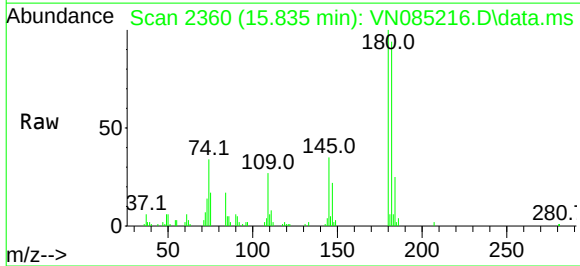
VSTDCCC020EC

Tgt Ion:	180	Resp:	34875
Ion Ratio	Lower	Upper	
180	100		
182	97.6	74.0	111.0
145	35.5	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#90

Hexachlorobutadiene

Concen: 19.555 ug/l

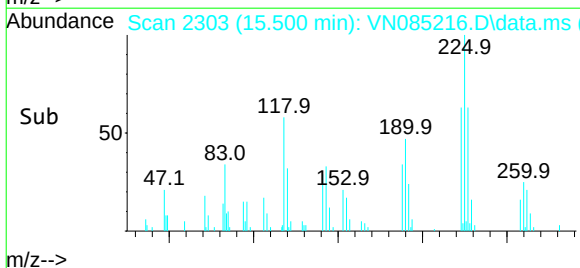
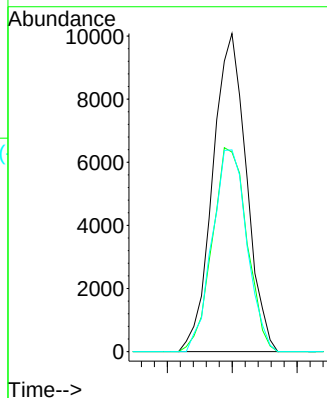
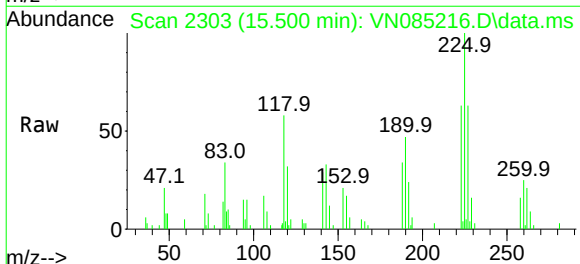
RT: 15.500 min Scan# 2303

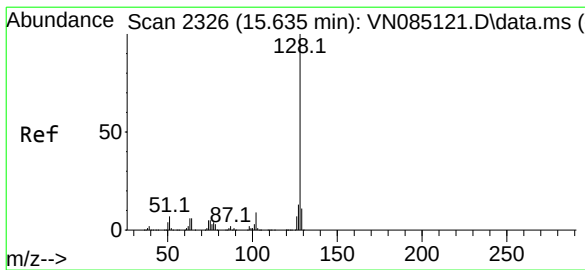
Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Tgt Ion:	225	Resp:	18191
Ion Ratio	Lower	Upper	
225	100		
223	65.8	0.0	121.8
227	65.3	0.0	126.8





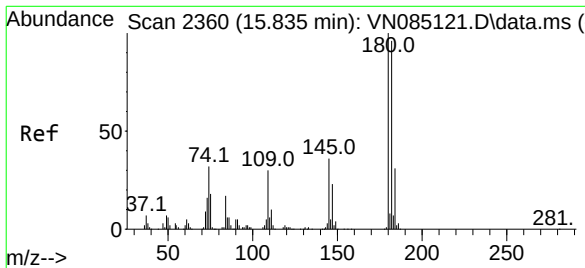
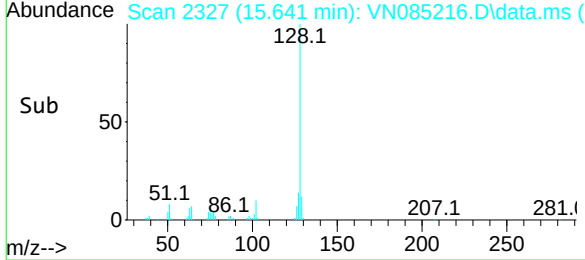
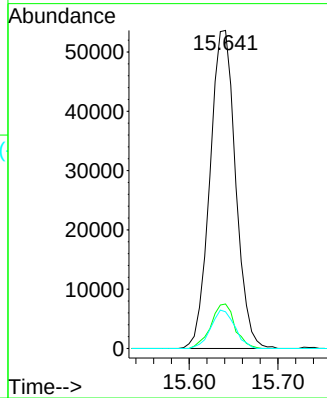
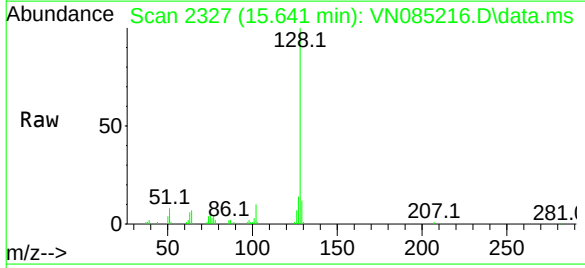
#91
Naphthalene
Concen: 19.380 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:128 Resp: 107788
Ion Ratio Lower Upper
128 100
127 13.1 11.0 16.4
129 11.3 8.7 13.1

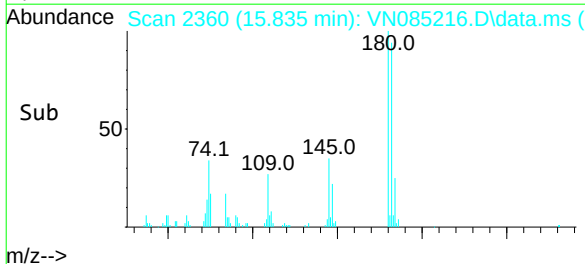
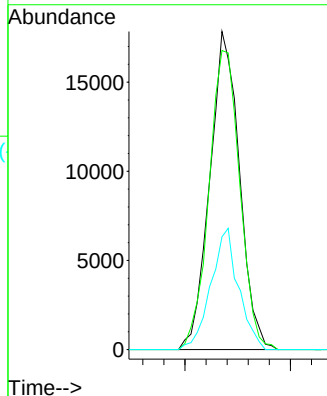
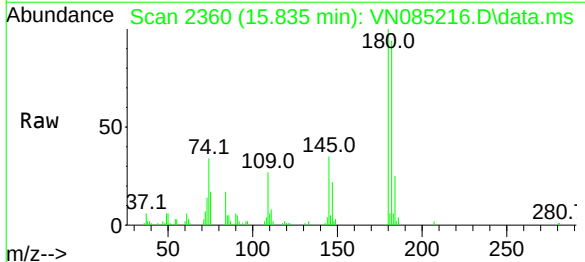
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/17/2024
Supervised By :Semsettin Yesilyurt 12/17/2024



#92
1,2,3-Trichlorobenzene
Concen: 19.481 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:180 Resp: 34875
Ion Ratio Lower Upper
180 100
182 97.6 0.0 185.0
145 35.5 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085216.D
 Acq On : 16 Dec 2024 16:33
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Dec 17 02:01:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	94	0.00
2 M	Dichlorodifluoromethane	2.400	2.542	-5.9	97	0.00
3 M	Chloromethane	2.124	2.194	-3.3	98	0.00
4 M	Vinyl Chloride	2.173	2.299	-5.8	101	0.00
5 M	Bromomethane	1.380	1.295	6.2	91	0.00
6 M	Chloroethane	1.335	1.435	-7.5	104	0.00
7 M	Trichlorofluoromethane	3.557	3.621	-1.8	98	0.00
8 T	Diethyl Ether	1.127	1.141	-1.2	102	0.00
9	1,1,2-Trichlorotrifluoroeth	1.989	2.079	-4.5	101	0.00
10 M	1,1-Dichloroethene	1.827	1.851	-1.3	99	0.00
11	Methyl Iodide	2.534	2.053	19.0	82	0.00
12	Methyl Acetate	2.155	2.321	-7.7	106	0.00
13 M	Acrolein	0.313	0.345	-10.2	127	0.00
14 M	Acrylonitrile	0.895	0.922	-3.0	104	0.00
15 M	Acetone	0.243	0.286	-17.7	118	0.00
16 M	Carbon Disulfide	5.461	5.430	0.6	95	0.00
17	Allyl chloride	2.614	2.547	2.6	100	0.00
18 M	Methylene Chloride	2.073	1.985	4.2	93	0.00
19 M	trans-1,2-Dichloroethene	1.899	1.907	-0.4	100	0.00
20 T	Diisopropyl ether	5.737	5.749	-0.2	95	0.00
21 M	1,1-Dichloroethane	3.541	3.573	-0.9	98	0.00
22 M	cis-1,2-Dichloroethene	2.183	2.196	-0.6	97	0.00
23 M	tert-Butyl Alcohol	0.321	0.319	0.6	102	0.00
24 M	Methyl tert-Butyl Ether	5.708	5.892	-3.2	101	0.00
25 M	Chloroform	3.710	3.818	-2.9	99	0.00
26	Cyclohexane	2.916	2.845	2.4	91	0.00
27 s	1,2-Dichloroethane-d4	2.380	2.419	-1.6	95	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
29	1,1-Dichloropropene	0.484	0.483	0.2	98	0.00
30 M	2-Butanone	0.222	0.233	-5.0	105	0.00
31	2,2-Dichloropropane	0.621	0.621	0.0	100	0.00
32 M	1,1,1-Trichloroethane	0.655	0.667	-1.8	98	0.00
33 M	Carbon Tetrachloride	0.591	0.590	0.2	98	0.00
34 M	Benzene	1.521	1.495	1.7	97	0.00
35	Methacrylonitrile	0.250	0.233	6.8	91	0.00
36 M	1,2-Dichloroethane	0.518	0.508	1.9	98	0.00
37 M	Trichloroethene	0.362	0.357	1.4	98	0.00
38	Methylcyclohexane	0.526	0.503	4.4	102	0.00
39 M	1,2-Dichloropropane	0.368	0.358	2.7	95	0.00
40	Dibromomethane	0.264	0.267	-1.1	98	0.00
41 M	Bromodichloromethane	0.565	0.559	1.1	98	0.00
42 M	Vinyl Acetate	0.777	0.797	-2.6	104	0.00
43	Ethyl Acetate	0.442	0.449	-1.6	108	0.00
44	Isopropyl Acetate	0.768	0.789	-2.7	103	0.00
45 T	1,4-Dioxane	0.006	0.007	-16.7	99	0.00
46	Methyl methacrylate	0.352	0.365	-3.7	104	0.00
47	n-amyl Acetate	0.646	0.644	0.3	102	0.00
48 M	t-1,3-Dichloropropene	0.554	0.539	2.7	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085216.D
 Acq On : 16 Dec 2024 16:33
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Dec 17 02:01:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.604	0.579	4.1	96	0.00
50 M	1,1,2-Trichloroethane	0.356	0.358	-0.6	98	0.00
51	Ethyl methacrylate	0.542	0.536	1.1	103	0.00
52	1,3-Dichloropropane	0.596	0.598	-0.3	100	0.00
53 M	Dibromochloromethane	0.434	0.437	-0.7	100	0.00
54 M	1,2-Dibromoethane	0.359	0.359	0.0	101	0.00
55 M	2-Chloroethyl vinyl ether	0.252	0.241	4.4	95	0.00
56 M	Bromoform	0.291	0.286	1.7	102	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
58 M	4-Methyl-2-Pentanone	0.490	0.496	-1.2	97	0.00
59 M	2-Hexanone	0.371	0.371	0.0	95	0.00
60 S	4-Bromofluorobenzene	0.496	0.502	-1.2	98	0.00
61 M	Tetrachloroethene	0.363	0.364	-0.3	98	0.00
62 M	Toluene	1.750	1.715	2.0	96	0.00
63 S	Toluene-d8	1.407	1.395	0.9	93	0.00
64 M	Chlorobenzene	1.080	1.100	-1.9	100	0.00
65	1,1,1,2-Tetrachloroethane	0.403	0.400	0.7	100	0.00
66 M	Ethyl Benzene	1.857	1.856	0.1	103	0.00
67 M	m/p-Xylenes	0.714	0.728	-2.0	98	0.00
68 M	o-Xylene	0.671	0.684	-1.9	102	0.00
69 M	Styrene	1.138	1.149	-1.0	101	0.00
70	Isopropylbenzene	1.730	1.742	-0.7	101	0.00
71 M	1,1,2,2-Tetrachloroethane	0.526	0.537	-2.1	97	0.00
72	1,2,3-Trichloropropane	0.520	0.497	4.4	90	0.00
73	Bromobenzene	0.433	0.445	-2.8	102	0.00
74	n-propylbenzene	2.079	2.096	-0.8	100	0.00
75	2-Chlorotoluene	1.286	1.290	-0.3	98	0.00
76	1,3,5-Trimethylbenzene	1.482	1.515	-2.2	101	0.00
77	t-1,4-Dichloro-2-butene	0.189	0.178	5.8	96	0.00
78	4-Chlorotoluene	1.305	1.313	-0.6	100	0.00
79	tert-butylbenzene	1.217	1.212	0.4	99	0.00
80	1,2,4-Trimethylbenzene	1.464	1.522	-4.0	103	0.00
81	sec-Butylbenzene	1.729	1.739	-0.6	100	0.00
82	p-Isopropyltoluene	1.434	1.465	-2.2	103	0.00
83 M	1,3-Dichlorobenzene	0.795	0.800	-0.6	101	0.00
84 M	1,4-Dichlorobenzene	0.775	0.796	-2.7	103	0.00
85	n-Butylbenzene	1.203	1.189	1.2	105	0.00
86 T	Hexachloroethane	0.285	0.297	-4.2	104	0.00
87 M	1,2-Dichlorobenzene	0.750	0.765	-2.0	102	0.00
88	1,2-Dibromo-3-Chloropropane	0.105	0.105	0.0	98	0.00
89	1,2,4-Trichlorobenzene	0.367	0.358	2.5	101	0.00
90	Hexachlorobutadiene	0.191	0.187	2.1	98	0.00
91 M	Naphthalene	1.142	1.106	3.2	110	0.00
92	1,2,3-Trichlorobenzene	0.367	0.358	2.5	101	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085216.D
 Acq On : 16 Dec 2024 16:33
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Dec 17 02:01:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	94	0.00
2 M	Dichlorodifluoromethane	20.000	21.179	-5.9	97	0.00
3 M	Chloromethane	20.000	20.658	-3.3	98	0.00
4 M	Vinyl Chloride	20.000	21.156	-5.8	101	0.00
5 M	Bromomethane	20.000	18.777	6.1	91	0.00
6 M	Chloroethane	20.000	21.499	-7.5	104	0.00
7 M	Trichlorofluoromethane	20.000	20.361	-1.8	98	0.00
8 T	Diethyl Ether	20.000	20.263	-1.3	102	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.901	-4.5	101	0.00
10 M	1,1-Dichloroethene	20.000	20.266	-1.3	99	0.00
11	Methyl Iodide	20.000	16.205	19.0	82	0.00
12	Methyl Acetate	20.000	21.532	-7.7	106	0.00
13 M	Acrolein	100.000	110.222	-10.2	127	0.00
14 M	Acrylonitrile	100.000	103.071	-3.1	104	0.00
15 M	Acetone	100.000	118.123	-18.1	118	0.00
16 M	Carbon Disulfide	20.000	19.886	0.6	95	0.00
17	Allyl chloride	20.000	19.485	2.6	100	0.00
18 M	Methylene Chloride	20.000	19.149	4.3	93	0.00
19 M	trans-1,2-Dichloroethene	20.000	20.087	-0.4	100	0.00
20 T	Diisopropyl ether	20.000	20.042	-0.2	95	0.00
21 M	1,1-Dichloroethane	20.000	20.181	-0.9	98	0.00
22 M	cis-1,2-Dichloroethene	20.000	20.118	-0.6	97	0.00
23 M	tert-Butyl Alcohol	100.000	99.351	0.6	102	0.00
24 M	Methyl tert-Butyl Ether	20.000	20.646	-3.2	101	0.00
25 M	Chloroform	20.000	20.586	-2.9	99	0.00
26	Cyclohexane	20.000	19.513	2.4	91	0.00
27 s	1,2-Dichloroethane-d4	30.000	30.486	-1.6	95	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	98	0.00
29	1,1-Dichloropropene	20.000	19.952	0.2	98	0.00
30 M	2-Butanone	100.000	104.700	-4.7	105	0.00
31	2,2-Dichloropropane	20.000	20.016	-0.1	100	0.00
32 M	1,1,1-Trichloroethane	20.000	20.352	-1.8	98	0.00
33 M	Carbon Tetrachloride	20.000	19.971	0.1	98	0.00
34 M	Benzene	20.000	19.668	1.7	97	0.00
35	Methacrylonitrile	20.000	18.649	6.8	91	0.00
36 M	1,2-Dichloroethane	20.000	19.608	2.0	98	0.00
37 M	Trichloroethene	20.000	19.715	1.4	98	0.00
38	Methylcyclohexane	20.000	19.104	4.5	102	0.00
39 M	1,2-Dichloropropane	20.000	19.424	2.9	95	0.00
40	Dibromomethane	20.000	20.246	-1.2	98	0.00
41 M	Bromodichloromethane	20.000	19.780	1.1	98	0.00
42 M	Vinyl Acetate	100.000	102.535	-2.5	104	0.00
43	Ethyl Acetate	20.000	20.300	-1.5	108	0.00
44	Isopropyl Acetate	20.000	20.553	-2.8	103	0.00
45 T	1,4-Dioxane	400.000	410.991	-2.7	99	0.00
46	Methyl methacrylate	20.000	20.757	-3.8	104	0.00
47	n-amyl Acetate	20.000	19.928	0.4	102	0.00
48 M	t-1,3-Dichloropropene	20.000	19.447	2.8	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085216.D
 Acq On : 16 Dec 2024 16:33
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Dec 17 02:01:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	19.185	4.1	96	0.00
50 M	1,1,2-Trichloroethane	20.000	20.106	-0.5	98	0.00
51	Ethyl methacrylate	20.000	19.790	1.1	103	0.00
52	1,3-Dichloropropane	20.000	20.068	-0.3	100	0.00
53 M	Dibromochloromethane	20.000	20.142	-0.7	100	0.00
54 M	1,2-Dibromoethane	20.000	19.998	0.0	101	0.00
55 M	2-Chloroethyl vinyl ether	100.000	95.632	4.4	95	0.00
56 M	Bromoform	20.000	19.663	1.7	102	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	96	0.00
58 M	4-Methyl-2-Pentanone	100.000	101.359	-1.4	97	0.00
59 M	2-Hexanone	100.000	99.918	0.1	95	0.00
60 S	4-Bromofluorobenzene	30.000	30.335	-1.1	98	0.00
61 M	Tetrachloroethene	20.000	20.047	-0.2	98	0.00
62 M	Toluene	20.000	19.603	2.0	96	0.00
63 S	Toluene-d8	30.000	29.742	0.9	93	0.00
64 M	Chlorobenzene	20.000	20.374	-1.9	100	0.00
65	1,1,1,2-Tetrachloroethane	20.000	19.821	0.9	100	0.00
66 M	Ethyl Benzene	20.000	19.992	0.0	103	0.00
67 M	m/p-Xylenes	40.000	40.773	-1.9	98	0.00
68 M	o-Xylene	20.000	20.398	-2.0	102	0.00
69 M	Styrene	20.000	20.189	-0.9	101	0.00
70	Isopropylbenzene	20.000	20.146	-0.7	101	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	20.416	-2.1	97	0.00
72	1,2,3-Trichloropropane	20.000	19.108	4.5	90	0.00
73	Bromobenzene	20.000	20.542	-2.7	102	0.00
74	n-propylbenzene	20.000	20.162	-0.8	100	0.00
75	2-Chlorotoluene	20.000	20.066	-0.3	98	0.00
76	1,3,5-Trimethylbenzene	20.000	20.451	-2.3	101	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.797	6.0	96	0.00
78	4-Chlorotoluene	20.000	20.129	-0.6	100	0.00
79	tert-butylbenzene	20.000	19.923	0.4	99	0.00
80	1,2,4-Trimethylbenzene	20.000	20.790	-3.9	103	0.00
81	sec-Butylbenzene	20.000	20.111	-0.6	100	0.00
82	p-Isopropyltoluene	20.000	20.444	-2.2	103	0.00
83 M	1,3-Dichlorobenzene	20.000	20.134	-0.7	101	0.00
84 M	1,4-Dichlorobenzene	20.000	20.546	-2.7	103	0.00
85	n-Butylbenzene	20.000	19.773	1.1	105	0.00
86 T	Hexachloroethane	20.000	20.814	-4.1	104	0.00
87 M	1,2-Dichlorobenzene	20.000	20.380	-1.9	102	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	20.062	-0.3	98	0.00
89	1,2,4-Trichlorobenzene	20.000	19.481	2.6	101	0.00
90	Hexachlorobutadiene	20.000	19.555	2.2	98	0.00
91 M	Naphthalene	20.000	19.380	3.1	110	0.00
92	1,2,3-Trichlorobenzene	20.000	19.481	2.6	101	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



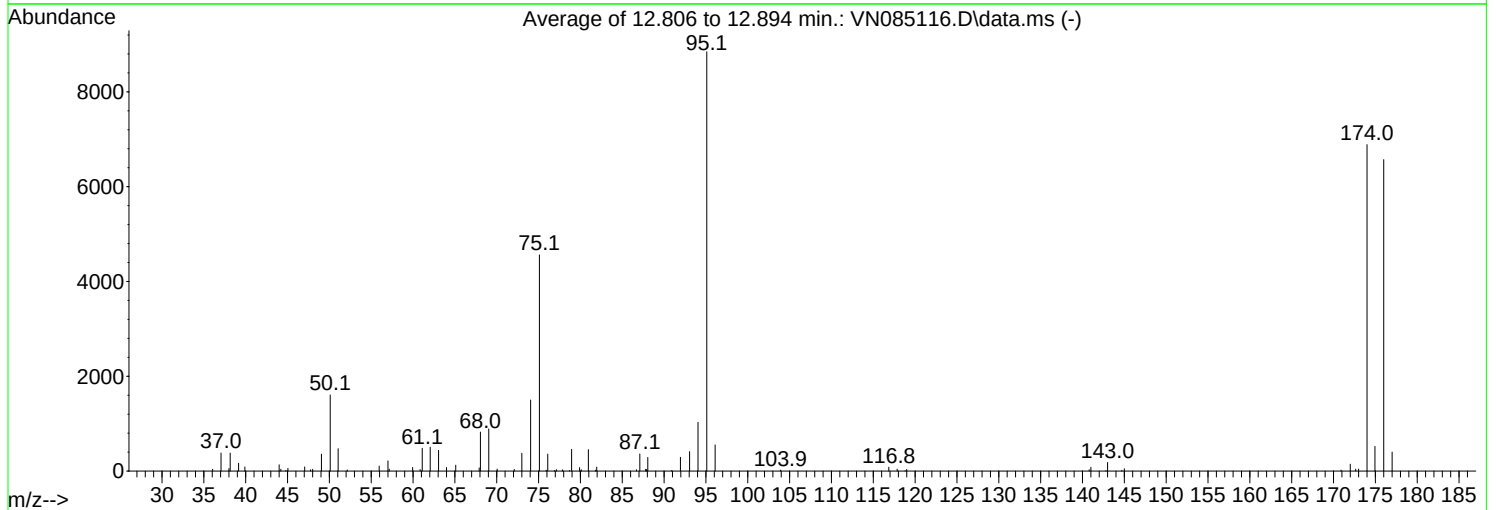
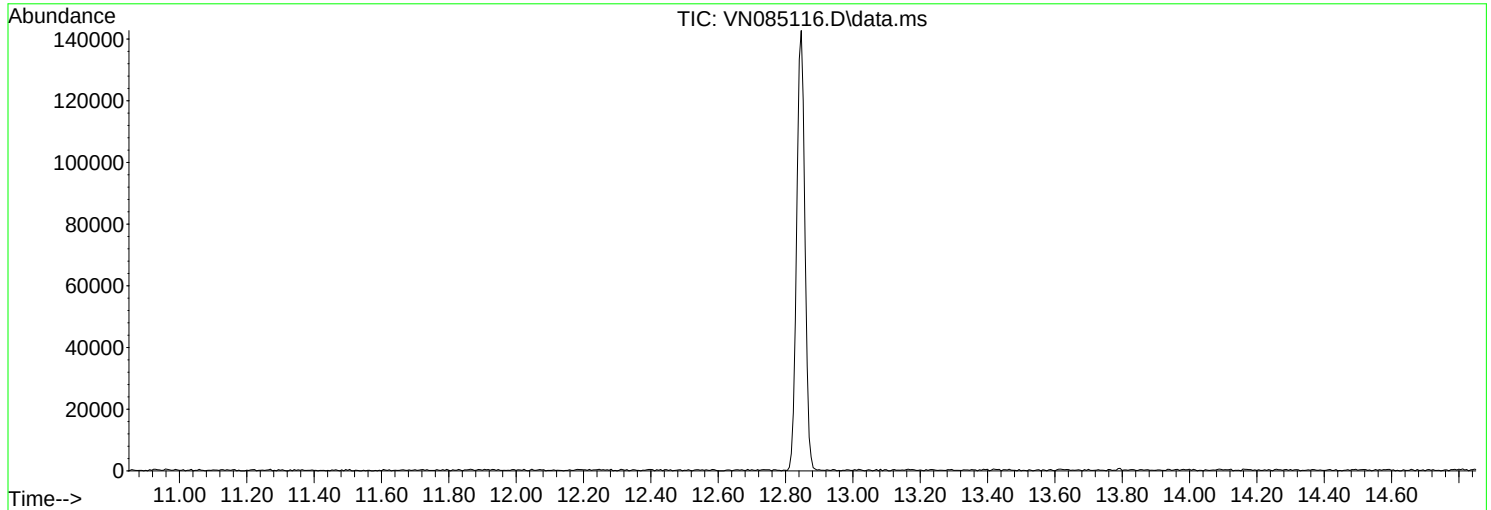
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
Data File : VN085116.D
Acq On : 06 Dec 2024 08:14
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Dec 06 22:50:42 2024



AutoFind: Averaged scan 1845 to 1860; Bkg corrected with scan 1844

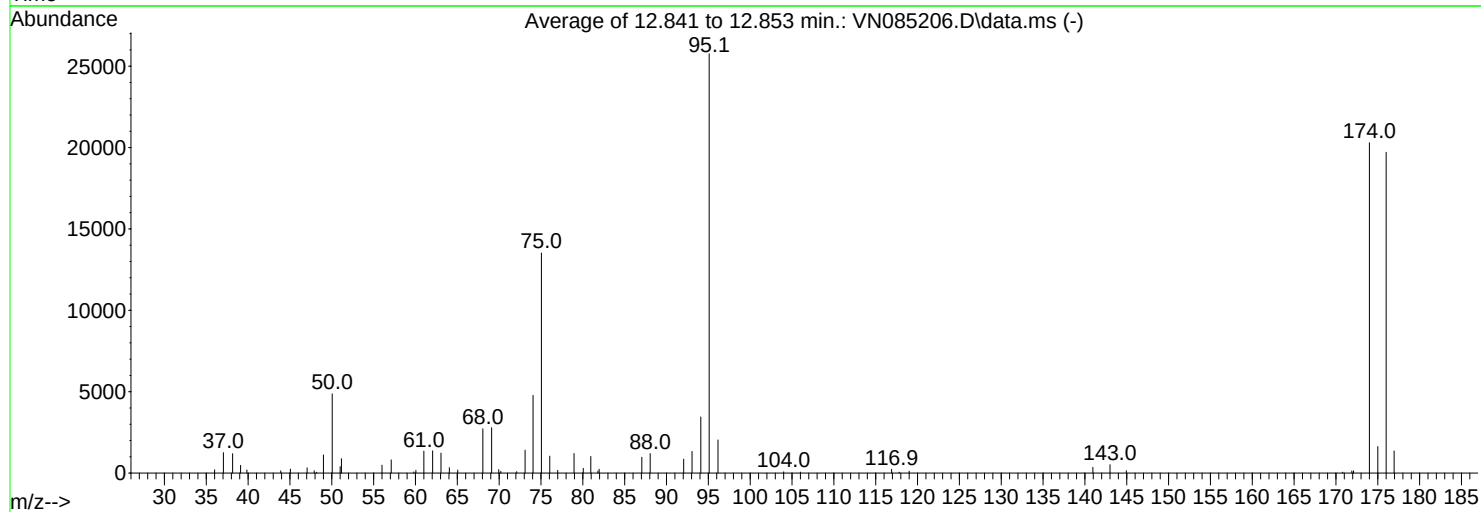
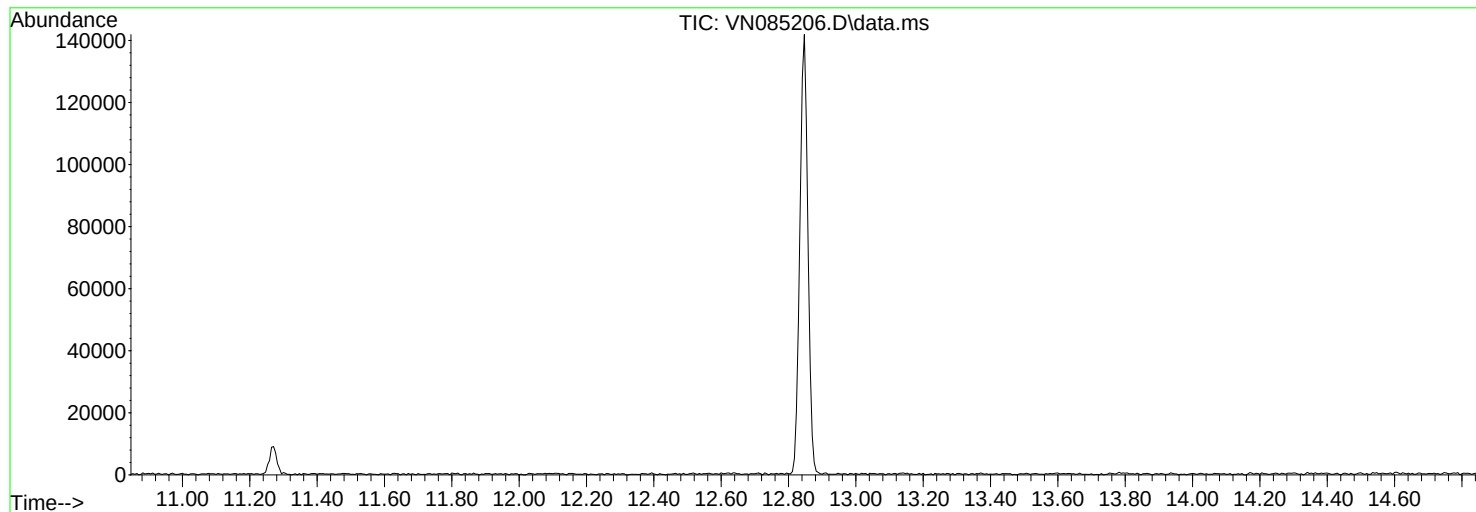
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	1605	PASS
75	95	30	60	51.6	4561	PASS
95	95	100	100	100.0	8847	PASS
96	95	5	9	6.2	552	PASS
173	174	0.00	2	0.6	44	PASS
174	95	50	100	77.9	6888	PASS
175	174	5	9	7.6	521	PASS
176	174	95	101	95.4	6571	PASS
177	176	5	9	6.1	401	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
Data File : VN085206.D
Acq On : 16 Dec 2024 08:58
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Dec 06 22:50:42 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	4870	PASS
75	95	30	60	52.5	13523	PASS
95	95	100	100	100.0	25765	PASS
96	95	5	9	7.9	2038	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.8	20296	PASS
175	174	5	9	8.0	1627	PASS
176	174	95	101	97.1	19712	PASS
177	176	5	9	6.9	1363	PASS

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBL01		SDG No.:	P5283
Lab Sample ID:	VN1216WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085210.D	1		12/16/24 11:21	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.00	ug/L
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/L
75-01-4	Vinyl Chloride	1.20	U	1.20	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	2.90	U	2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.00	ug/L
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
67-64-1	Acetone	4.90	U	4.90	25.0	ug/L
75-15-0	Carbon Disulfide	0.93	U	0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.83	U	0.83	5.00	ug/L
79-20-9	Methyl Acetate	1.20	U	1.20	5.00	ug/L
75-09-2	Methylene Chloride	1.20	U	1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/L
110-82-7	Cyclohexane	1.00	U	1.00	5.00	ug/L
78-93-3	2-Butanone	3.60	U	3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	1.10	U	1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
108-87-2	Methylcyclohexane	0.89	U	0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.75	U	0.75	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.77	U	0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.65	U	0.65	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBL01		SDG No.:	P5283
Lab Sample ID:	VN1216WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085210.D	1		12/16/24 11:21	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.70	U	0.70	5.00	ug/L
75-27-4	Bromodichloromethane	0.81	U	0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	25.0	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.68	U	0.68	5.00	ug/L
591-78-6	2-Hexanone	3.90	U	3.90	25.0	ug/L
124-48-1	Dibromochloromethane	0.72	U	0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.78	U	0.78	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
108-90-7	Chlorobenzene	0.67	U	0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.91	U	0.91	5.00	ug/L
67-72-1	Hexachloroethane	0.91	U	0.91	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
100-42-5	Styrene	0.80	U	0.80	5.00	ug/L
75-25-2	Bromoform	1.00	U	1.00	5.00	ug/L
98-82-8	Isopropylbenzene	0.85	U	0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.70	U	1.70	5.00	ug/L
108-86-1	Bromobenzene	0.69	U	0.69	5.00	ug/L
103-65-1	n-propylbenzene	0.80	U	0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	0.81	U	0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.74	U	0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	0.82	U	0.82	5.00	ug/L
98-06-6	tert-butylbenzene	0.77	U	0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.83	U	0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	0.77	U	0.77	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBL01		SDG No.:	P5283
Lab Sample ID:	VN1216WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085210.D	1		12/16/24 11:21	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.82	U	0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
104-51-8	n-Butylbenzene	0.86	U	0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.10	U	1.10	5.00	ug/L
91-20-3	Naphthalene	1.40	U	1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.40	U	1.40	5.00	ug/L
74-88-4	Methyl Iodide	0.94	U	0.94	5.00	ug/L
80-62-6	Methyl methacrylate	1.00	U	1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.1		91 - 110	104%	SPK: 30
2037-26-5	Toluene-d8	29.2		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.2		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28300	7.818			
540-36-3	1,4-Difluorobenzene	149000	9.1			
3114-55-4	Chlorobenzene-d5	130000	11.865			

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_N\Data\VN121624\
 Data File : VN085210.D
 Acq On : 16 Dec 2024 11:21
 Operator : JC\MD
 Sample : VN1216WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBL01

Quant Time: Dec 16 12:22:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	28325	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	149220	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	129681	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	69798	31.056	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.533%
60) 4-Bromofluorobenzene	12.847	95	54141	25.232	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.100%
63) Toluene-d8	10.565	98	177437	29.169	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.233%

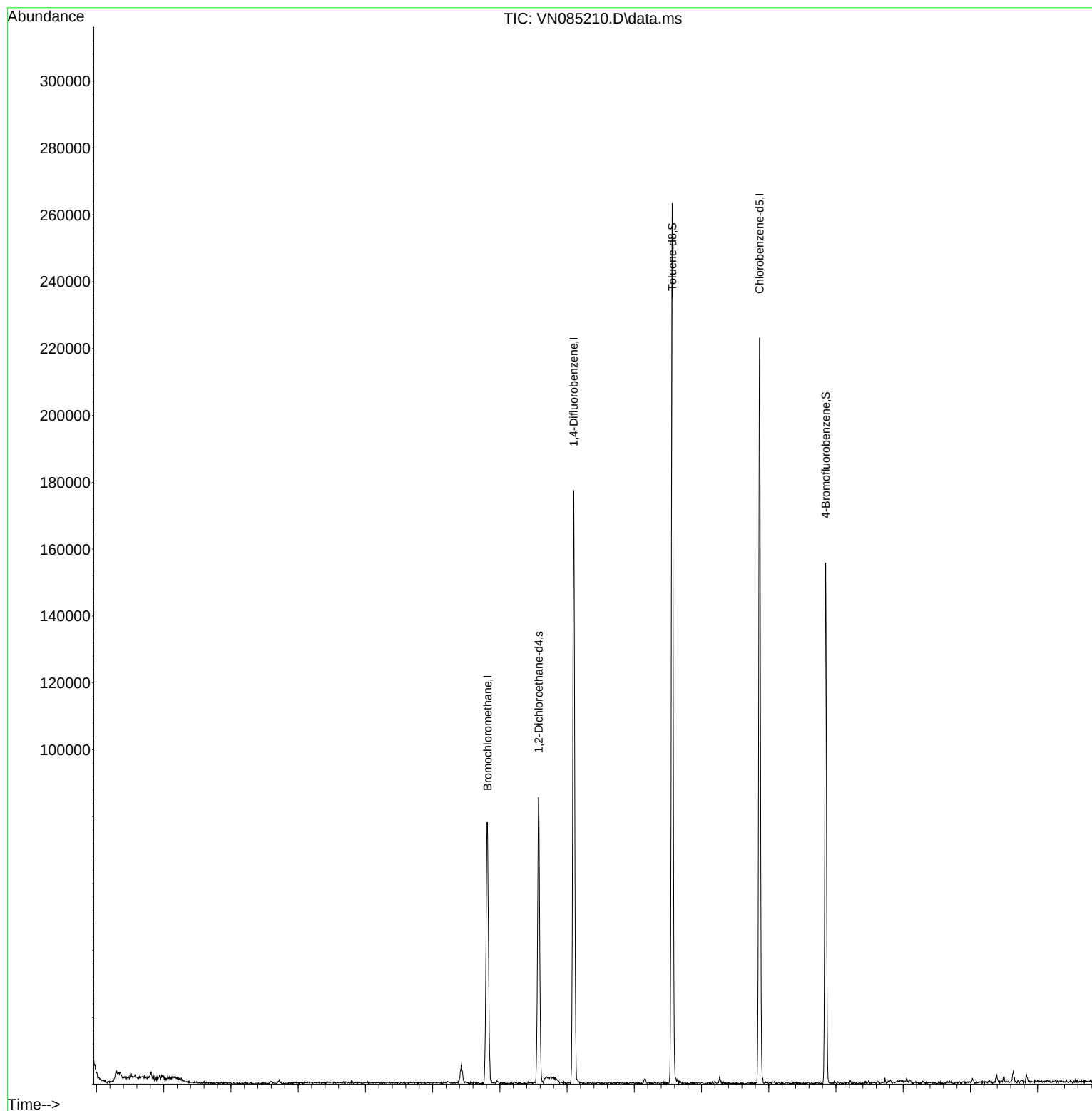
Target Compounds	Qvalue

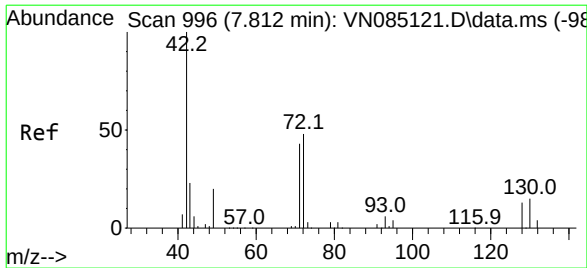
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
Data File : VN085210.D
Acq On : 16 Dec 2024 11:21
Operator : JC\MD
Sample : VN1216WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

Quant Time: Dec 16 12:22:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

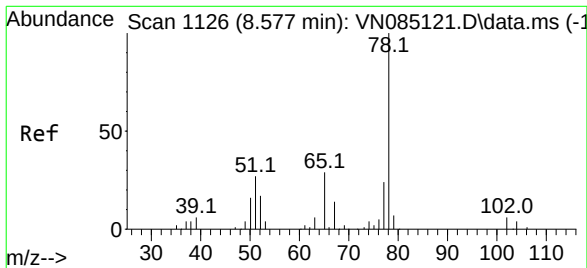
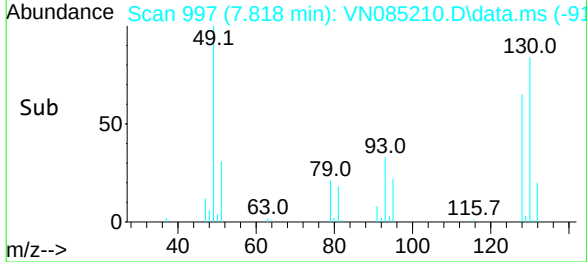
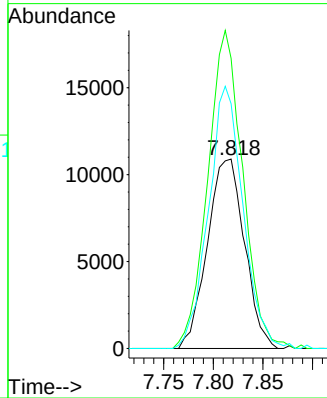
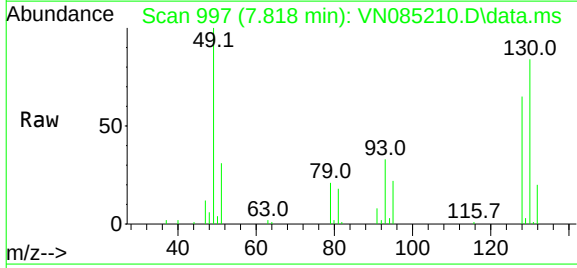




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

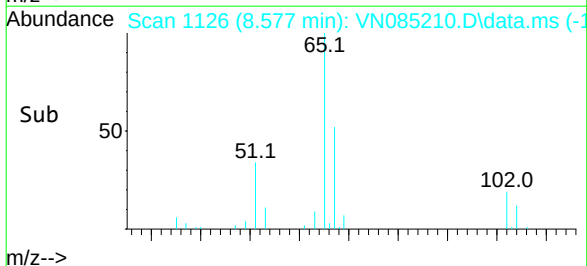
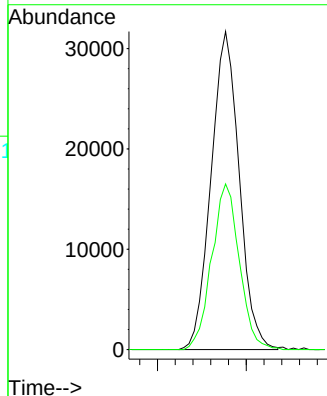
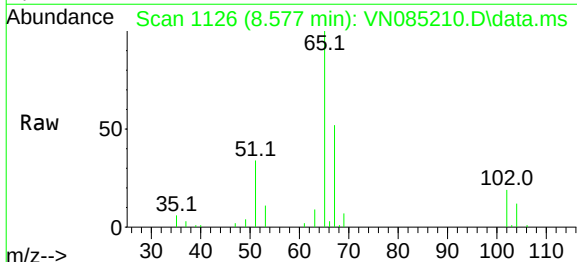
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

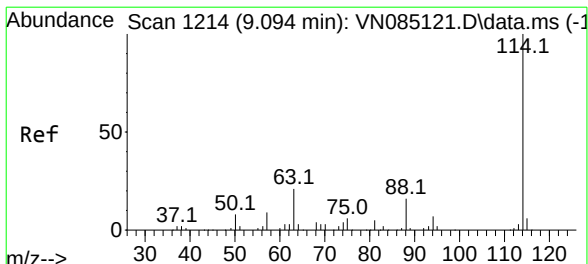
Tgt Ion	Ratio	Lower	Upper
128	100		
49	158.0	0.0	394.5
130	129.1	0.0	316.5



#27
1,2-Dichloroethane-d4
Concen: 31.056 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.1	39.9	59.9

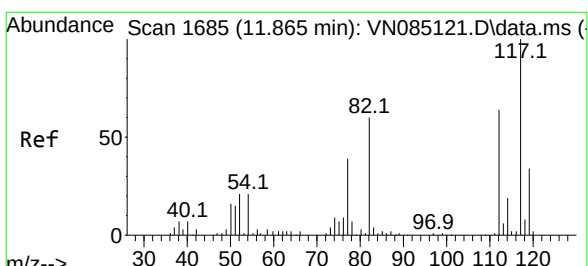
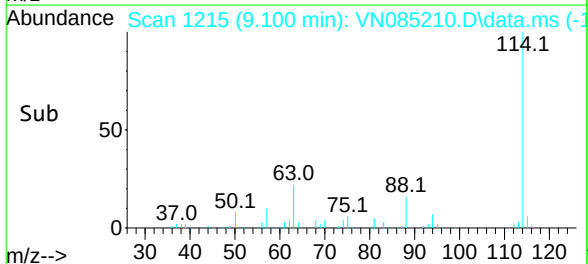
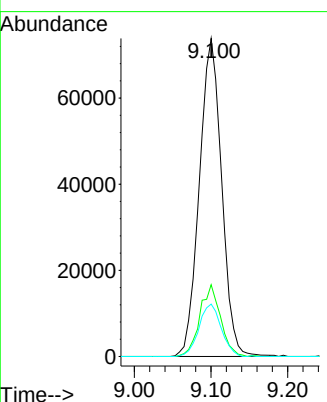
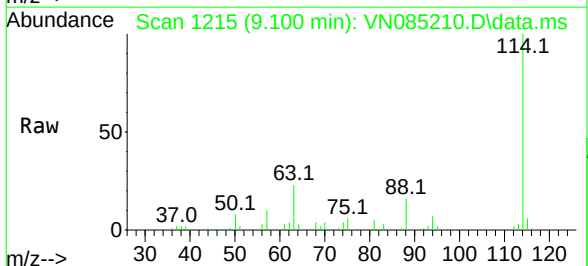




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1214
 Delta R.T. 0.000 min
 Lab File: VN085210.D
 Acq: 16 Dec 2024 11:21

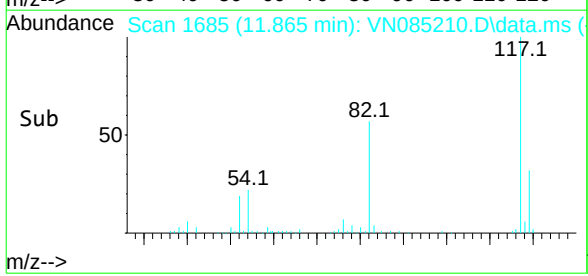
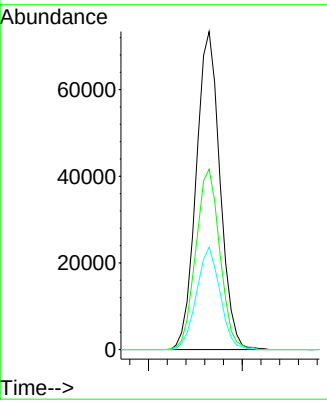
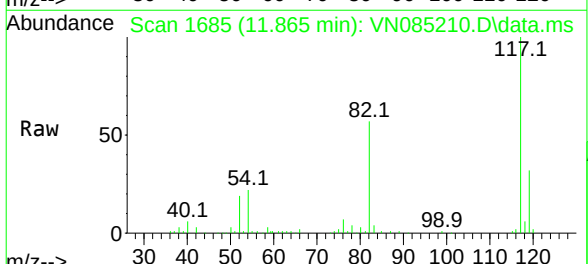
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBL01

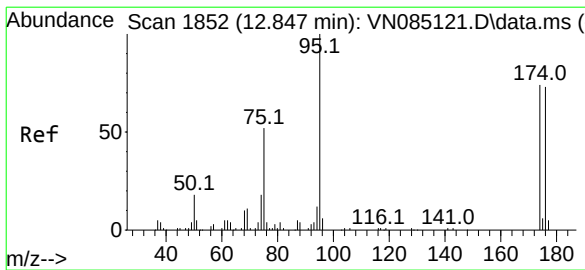
Tgt Ion:	114	Resp:	149220
Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.2	24.2
88	16.4	12.5	18.7



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN085210.D
 Acq: 16 Dec 2024 11:21

Tgt Ion:	117	Resp:	129681
Ion	Ratio	Lower	Upper
117	100		
82	57.3	44.2	66.4
119	31.9	25.4	38.2





#60

4-Bromofluorobenzene

Concen: 25.232 ug/l

RT: 12.847 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN085210.D

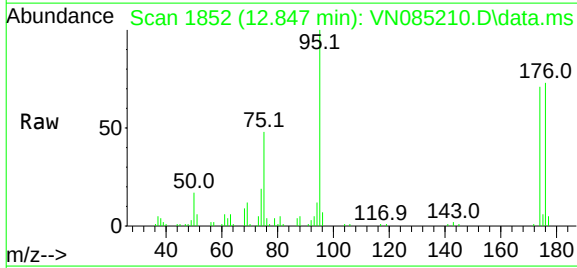
Acq: 16 Dec 2024 11:21

Instrument :

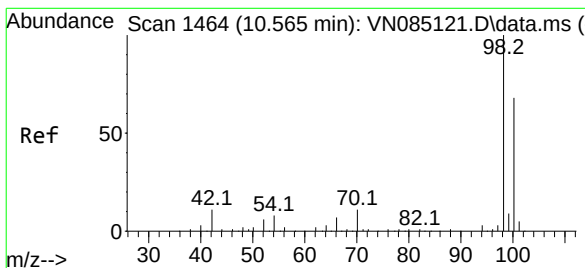
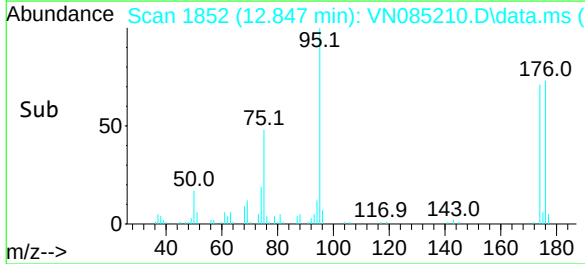
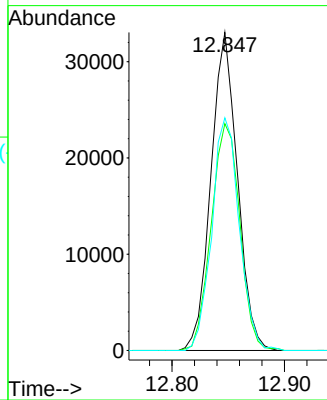
MSVOA_N

ClientSampleId :

VN1216WBL01



Tgt Ion:	95	Resp:	54141
Ion	Ratio	Lower	Upper
95	100		
174	76.7	60.3	90.5
176	75.3	57.4	86.0



#63

Toluene-d8

Concen: 29.169 ug/l

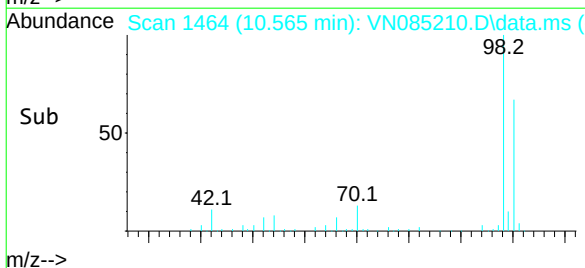
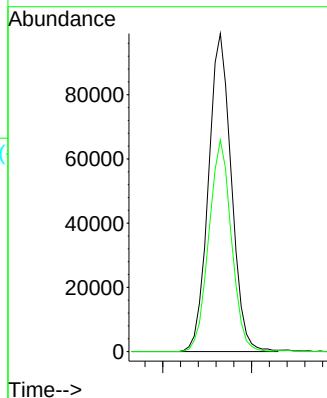
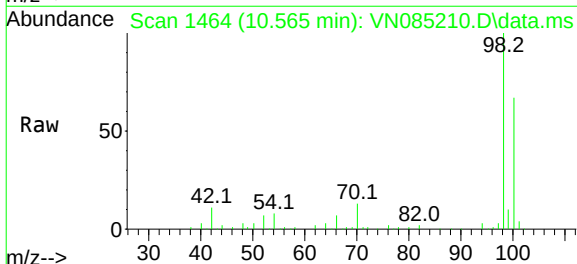
RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085210.D

Acq: 16 Dec 2024 11:21

Tgt Ion:	98	Resp:	177437
Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBS01		SDG No.:	P5283
Lab Sample ID:	VN1216WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085208.D	1		12/16/24 10:19	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.20	5.00	ug/L
74-87-3	Chloromethane	19.6		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	19.3		1.20	5.00	ug/L
74-83-9	Bromomethane	20.0		1.40	5.00	ug/L
75-00-3	Chloroethane	19.9		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.0		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.7		1.10	5.00	ug/L
107-02-8	Acrolein	110		9.30	25.0	ug/L
107-13-1	Acrylonitrile	93.1		3.70	25.0	ug/L
67-64-1	Acetone	100		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	19.1		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	19.9		0.83	5.00	ug/L
79-20-9	Methyl Acetate	19.0		1.20	5.00	ug/L
75-09-2	Methylene Chloride	18.5		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.5		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.81	5.00	ug/L
110-82-7	Cyclohexane	19.3		1.00	5.00	ug/L
78-93-3	2-Butanone	92.6		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	18.7		1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.90	5.00	ug/L
67-66-3	Chloroform	19.8		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	18.4		0.75	5.00	ug/L
71-43-2	Benzene	18.4		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.75	5.00	ug/L
79-01-6	Trichloroethene	18.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	18.5		0.65	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBS01		SDG No.:	P5283
Lab Sample ID:	VN1216WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085208.D	1		12/16/24 10:19	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	18.7		0.70	5.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	90.8		4.20	25.0	ug/L
108-88-3	Toluene	18.9		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.5		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.5		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.0		0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	18.2		0.68	5.00	ug/L
591-78-6	2-Hexanone	89.7		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	18.7		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	18.3		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	19.1		0.94	5.00	ug/L
108-90-7	Chlorobenzene	18.7		0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	18.6		0.91	5.00	ug/L
67-72-1	Hexachloroethane	18.8		0.91	5.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	38.0		1.70	10.0	ug/L
95-47-6	o-Xylene	19.2		0.82	5.00	ug/L
100-42-5	Styrene	18.7		0.80	5.00	ug/L
75-25-2	Bromoform	17.9		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.6		0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	15.3		1.70	5.00	ug/L
108-86-1	Bromobenzene	18.7		0.69	5.00	ug/L
103-65-1	n-propylbenzene	18.6		0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	19.0		0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.3		0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	18.9		0.82	5.00	ug/L
98-06-6	tert-butylbenzene	18.9		0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.5		0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	19.0		0.77	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBS01		SDG No.:	P5283
Lab Sample ID:	VN1216WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085208.D	1		12/16/24 10:19	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	19.3		0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.6		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.95	5.00	ug/L
104-51-8	n-Butylbenzene	19.1		0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.5		1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	20.3		1.10	5.00	ug/L
91-20-3	Naphthalene	18.9		1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.5		1.40	5.00	ug/L
74-88-4	Methyl Iodide	17.6		0.94	5.00	ug/L
80-62-6	Methyl methacrylate	18.1		1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.0		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	29.7		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.7		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	30800	7.806			
540-36-3	1,4-Difluorobenzene	170000	9.1			
3114-55-4	Chlorobenzene-d5	156000	11.865			

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_N\Data\VN121624\
 Data File : VN085208.D
 Acq On : 16 Dec 2024 10:19
 Operator : JC\MD
 Sample : VN1216WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

Quant Time: Dec 16 12:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024

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

Internal Standards						
1) Bromochloromethane	7.806	128	30825	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	169823	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	155663	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	73444	30.028	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.100%			
60) 4-Bromofluorobenzene	12.847	95	76379	29.655	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.833%			
63) Toluene-d8	10.565	98	216652	29.671	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.900%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	49525	20.082	ug/l	96
3) Chloromethane	2.359	50	42692	19.558	ug/l	97
4) Vinyl Chloride	2.518	62	42995	19.257	ug/l	97
5) Bromomethane	2.965	94	28290	19.958	ug/l	99
6) Chloroethane	3.124	64	27287	19.893	ug/l	96
7) Trichlorofluoromethane	3.500	101	72626	19.872	ug/l	94
8) Diethyl Ether	3.959	74	22934	19.812	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	38921	19.044	ug/l	92
10) 1,1-Dichloroethene	4.347	96	36972	19.695	ug/l	96
11) Methyl Iodide	4.589	142	45944	17.647	ug/l	98
12) Methyl Acetate	5.024	43	42168	19.041	ug/l	91
13) Acrolein	4.183	56	34873	108.358	ug/l	94
14) Acrylonitrile	5.718	53	85647	93.137	ug/l	97
15) Acetone	4.430	58	25905	103.954	ug/l	96
16) Carbon Disulfide	4.712	76	106931	19.057	ug/l	99
17) Allyl chloride	5.024	41	53377	19.871	ug/l	94
18) Methylene Chloride	5.277	84	39484	18.537	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	38087	19.519	ug/l	89
20) Diisopropyl ether	6.665	45	115380	19.573	ug/l	97
21) 1,1-Dichloroethane	6.559	63	71315	19.601	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	43904	19.576	ug/l	99
23) tert-Butyl Alcohol	5.506	59	31898	96.694	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	116497	19.863	ug/l #	76
25) Chloroform	7.965	83	75307	19.757	ug/l	94
26) Cyclohexane	8.253	56	57940	19.340	ug/l #	95
29) 1,1-Dichloropropene	8.365	75	50315	18.361	ug/l	99
30) 2-Butanone	7.483	43	116422	92.579	ug/l	99
31) 2,2-Dichloropropane	7.488	77	65751	18.711	ug/l #	100
32) 1,1,1-Trichloroethane	8.171	97	69008	18.605	ug/l	97
33) Carbon Tetrachloride	8.359	117	63544	18.985	ug/l	94
34) Benzene	8.606	78	158668	18.431	ug/l	99
35) Methacrylonitrile	7.777	41	26103	18.445	ug/l	87
36) 1,2-Dichloroethane	8.665	62	53550	18.273	ug/l	100
37) Trichloroethene	9.347	130	37914	18.494	ug/l	95
38) Methylcyclohexane	9.600	83	55860	18.747	ug/l	95
39) 1,2-Dichloropropane	9.618	63	38631	18.527	ug/l	98
40) Dibromomethane	9.706	93	27987	18.712	ug/l	97
41) Bromodichloromethane	9.882	83	58391	18.262	ug/l	96
42) Vinyl Acetate	6.600	43	416125	94.564	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085208.D
 Acq On : 16 Dec 2024 10:19
 Operator : JC\MD
 Sample : VN1216WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024

Quant Time: Dec 16 12:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	46077	18.415	ug/l	92
44) Isopropyl Acetate	8.682	43	79121	18.196	ug/l	100
45) 1,4-Dioxane	9.694	88	13749	379.179	ug/l	98
46) Methyl methacrylate	9.677	41	36110	18.146	ug/l	95
47) n-amyl Acetate	12.488	43	65132	17.803	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	57919	18.453	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	63332	18.535	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	36370	18.046	ug/l	91
51) Ethyl methacrylate	10.871	69	55409	18.076	ug/l	98
52) 1,3-Dichloropropane	11.159	76	61421	18.210	ug/l	99
53) Dibromochloromethane	11.353	129	45949	18.708	ug/l	99
54) 1,2-Dibromoethane	11.465	107	37104	18.272	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	86871	61.005	ug/l	100
56) Bromoform	12.576	173	29455	17.887	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	230551	90.751	ug/l	98
59) 2-Hexanone	11.194	43	172668	89.701	ug/l	97
61) Tetrachloroethene	11.100	164	36077	19.138	ug/l	91
62) Toluene	10.624	91	171579	18.900	ug/l	100
64) Chlorobenzene	11.888	112	105060	18.744	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.953	131	38827	18.556	ug/l	98
66) Ethyl Benzene	11.959	91	180124	18.698	ug/l	96
67) m/p-Xylenes	12.070	106	140933	38.037	ug/l	98
68) o-Xylene	12.394	106	66910	19.229	ug/l	97
69) Styrene	12.406	104	110123	18.651	ug/l	99
70) Isopropylbenzene	12.694	105	172891	19.264	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	50789	18.592	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	41267m	15.293	ug/l	
73) Bromobenzene	12.976	156	41970	18.670	ug/l	99
74) n-propylbenzene	13.029	91	200993	18.628	ug/l	99
75) 2-Chlorotoluene	13.123	91	126691	18.991	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	148740	19.344	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	18403	18.768	ug/l	99
78) 4-Chlorotoluene	13.217	91	127983	18.901	ug/l	99
79) tert-butylbenzene	13.435	119	119374	18.902	ug/l	96
80) 1,2,4-Trimethylbenzene	13.476	105	147735	19.451	ug/l	99
81) sec-Butylbenzene	13.612	105	170821	19.039	ug/l	99
82) p-Isopropyltoluene	13.723	119	143795	19.331	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	76871	18.638	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	76385	19.003	ug/l	99
85) n-Butylbenzene	14.053	91	119073	19.083	ug/l	100
86) Hexachloroethane	14.329	117	27875	18.824	ug/l	93
87) 1,2-Dichlorobenzene	14.100	146	72871	18.718	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	9899	18.139	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	37230	19.527	ug/l	96
90) Hexachlorobutadiene	15.494	225	20120	20.308	ug/l	97
91) Naphthalene	15.635	128	112126	18.930	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	37230	19.527	ug/l	96

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

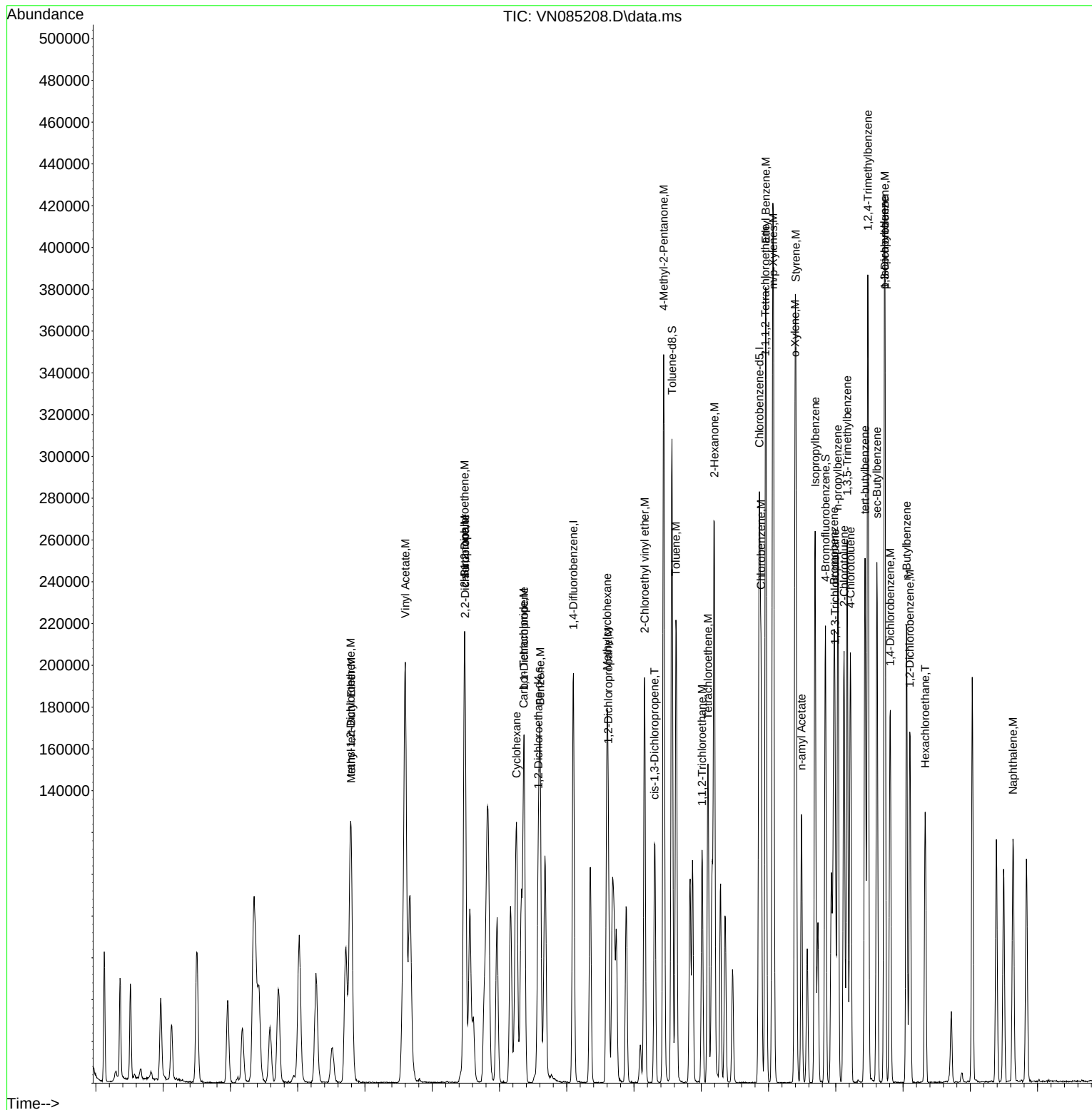
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
Data File : VN085208.D
Acq On : 16 Dec 2024 10:19
Operator : JC\MD
Sample : VN1216WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

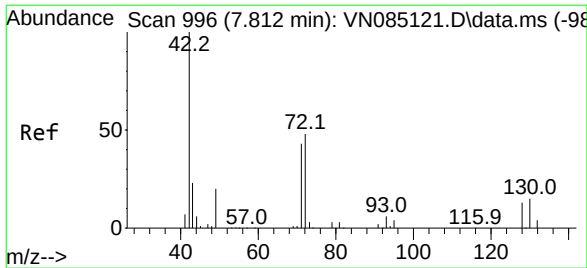
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024

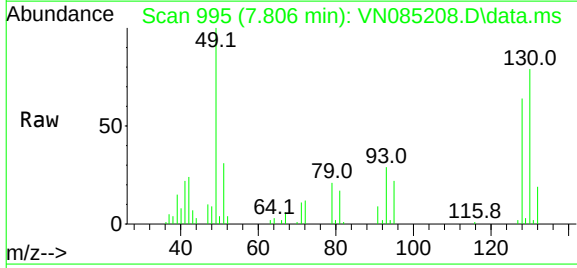
Quant Time: Dec 16 12:21:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

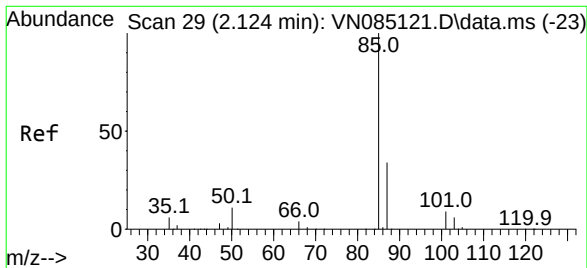
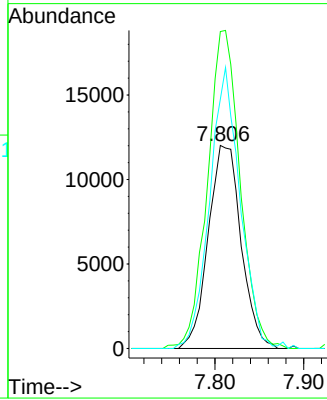
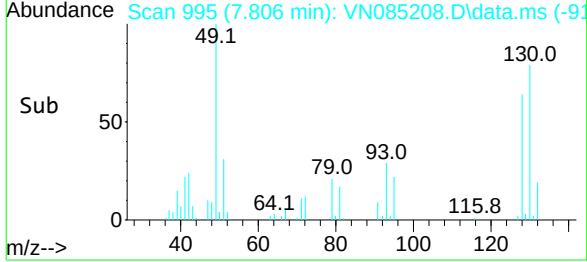
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 128 Resp: 30825
Ion Ratio Lower Upper
128 100
49 156.0 0.0 394.5
130 128.2 0.0 316.5

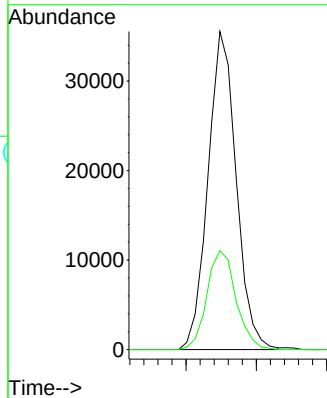
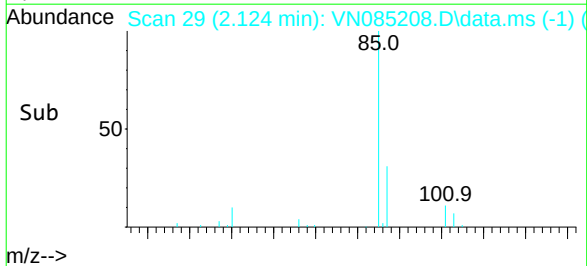
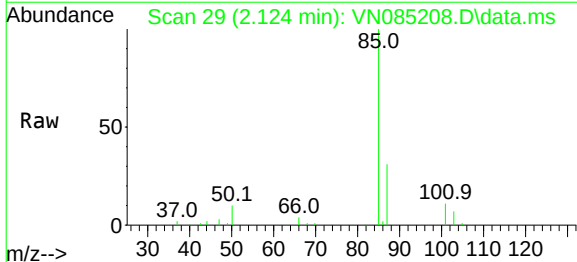
Manual Integrations
APPROVED

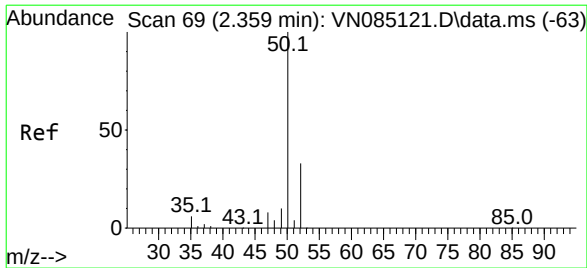
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024



#2
Dichlorodifluoromethane
Concen: 20.082 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

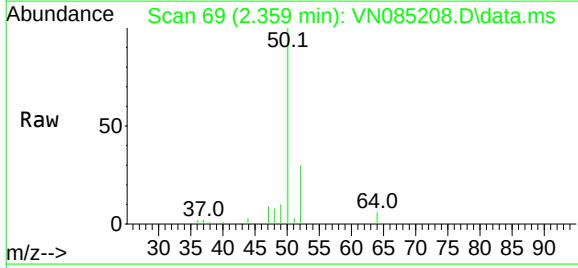
Tgt Ion: 85 Resp: 49525
Ion Ratio Lower Upper
85 100
87 31.1 16.8 50.3





#3
Chloromethane
Concen: 19.558 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

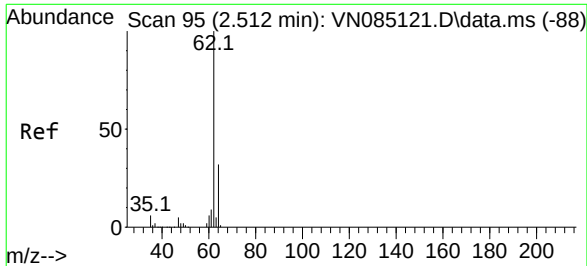
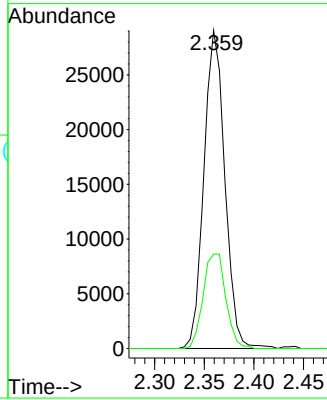
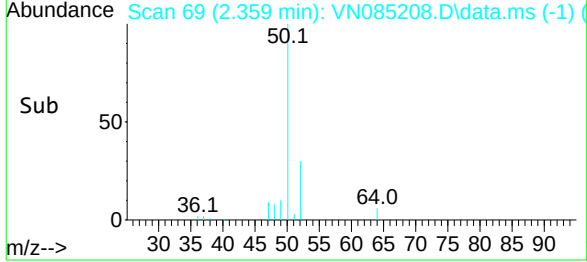
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 50 Resp: 42692
Ion Ratio Lower Upper
50 100
52 29.7 25.0 37.4

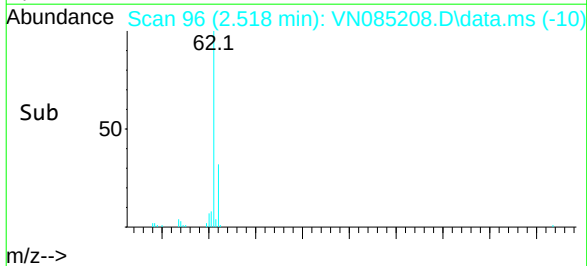
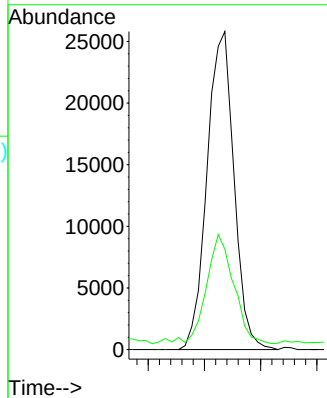
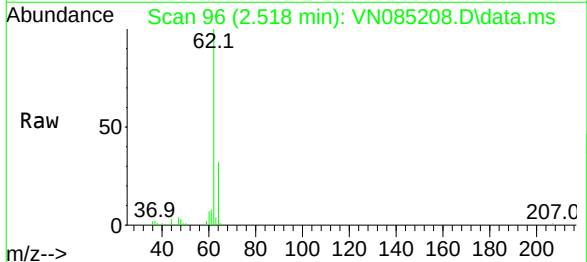
Manual Integrations
APPROVED

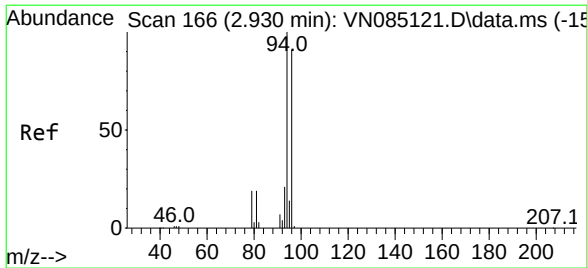
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#4
Vinyl Chloride
Concen: 19.257 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

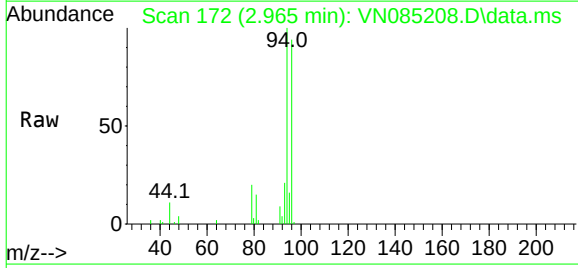
Tgt Ion: 62 Resp: 42995
Ion Ratio Lower Upper
62 100
64 29.6 24.9 37.3





#5
Bromomethane
Concen: 19.958 ug/l
RT: 2.965 min Scan# 171
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

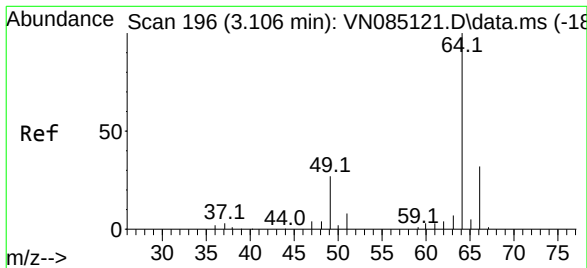
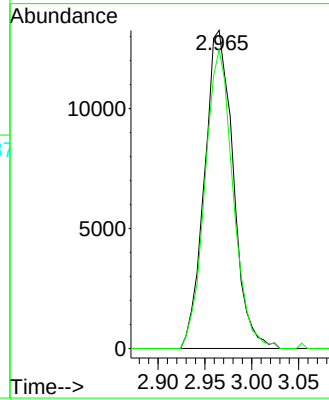
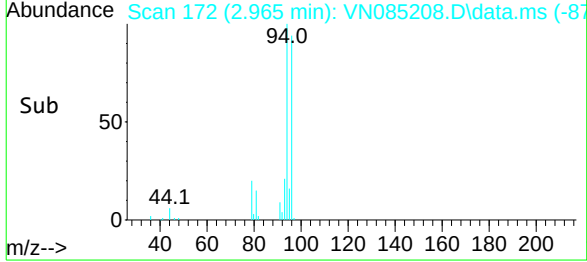
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 94 Resp: 28290
Ion Ratio Lower Upper
94 100
96 93.9 76.2 114.4

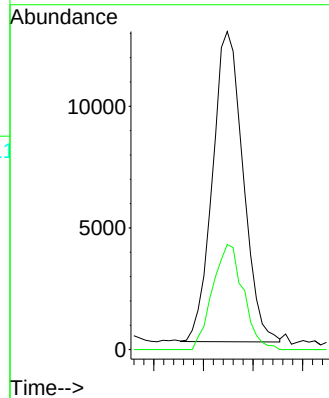
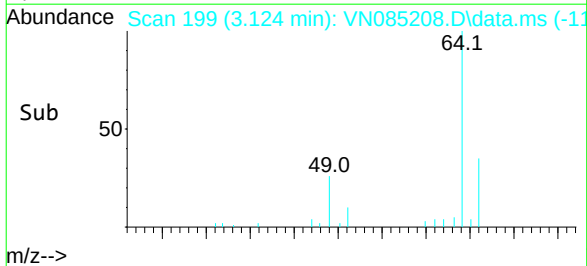
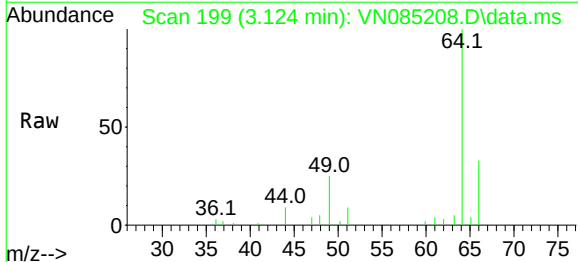
Manual Integrations
APPROVED

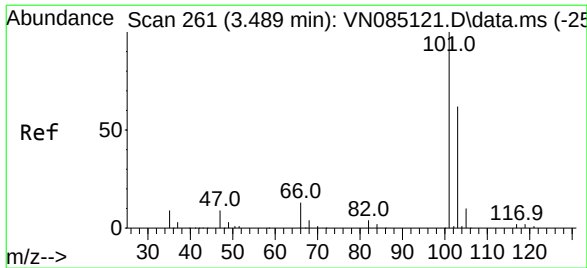
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#6
Chloroethane
Concen: 19.893 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

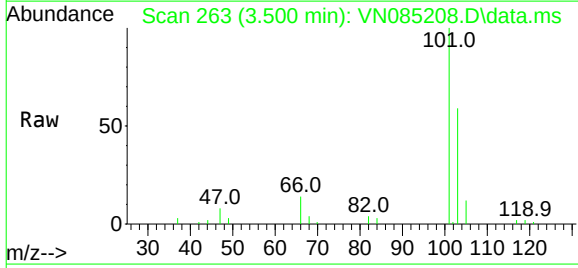
Tgt Ion: 64 Resp: 27287
Ion Ratio Lower Upper
64 100
66 33.9 25.5 38.3





#7
Trichlorofluoromethane
Concen: 19.872 ug/l
RT: 3.500 min Scan# 261
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

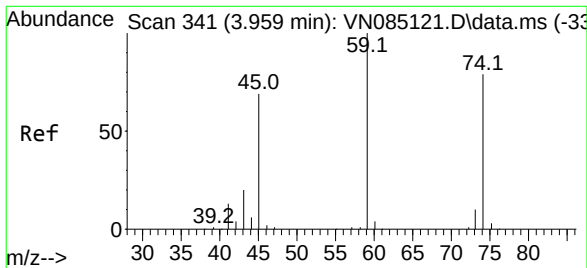
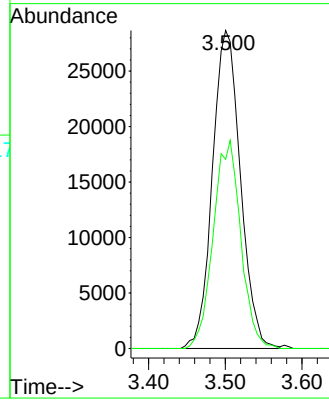
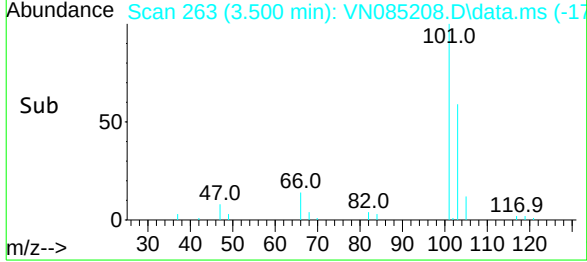
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 101 Resp: 72626
Ion Ratio Lower Upper
101 100
103 59.5 51.3 76.9

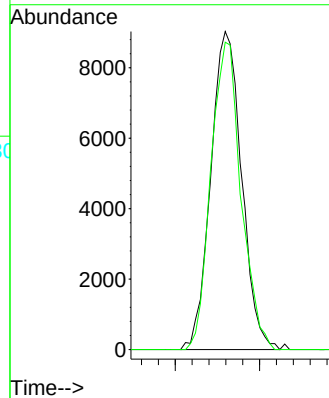
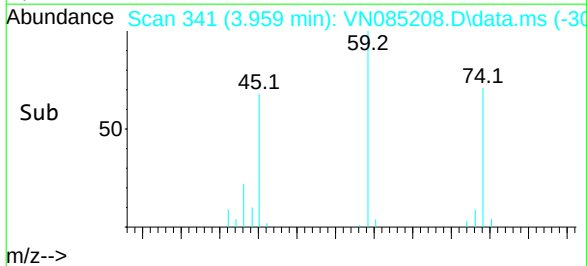
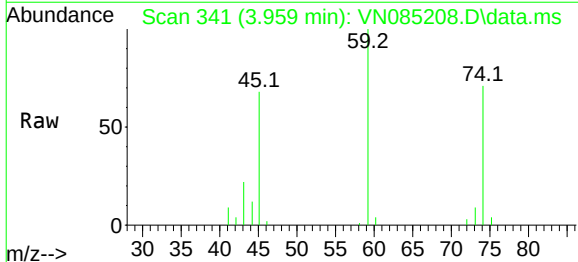
Manual Integrations
APPROVED

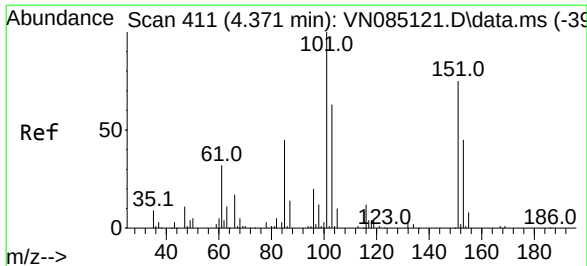
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024



#8
Diethyl Ether
Concen: 19.812 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

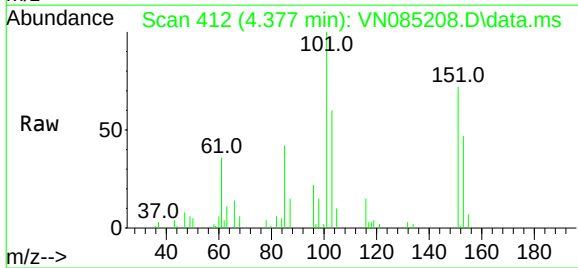
Tgt Ion: 74 Resp: 22934
Ion Ratio Lower Upper
74 100
45 94.4 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.044 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

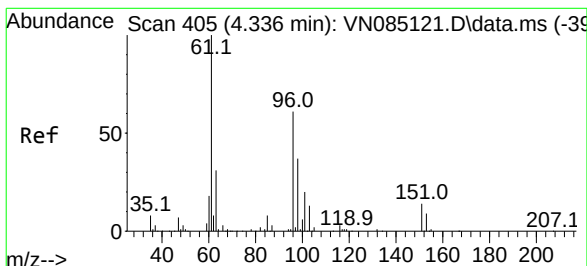
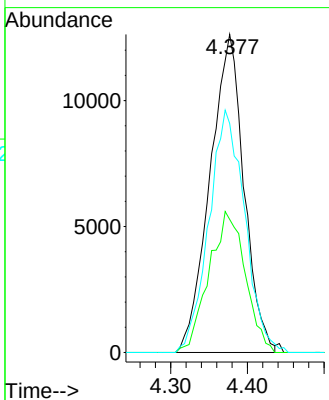
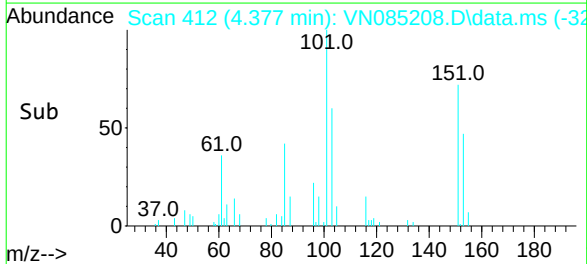
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 101 Resp: 38921
Ion Ratio Lower Upper
101 100
85 32.3 0.0 88.6
151 80.3 0.0 155.8

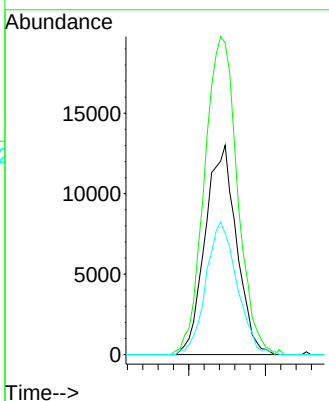
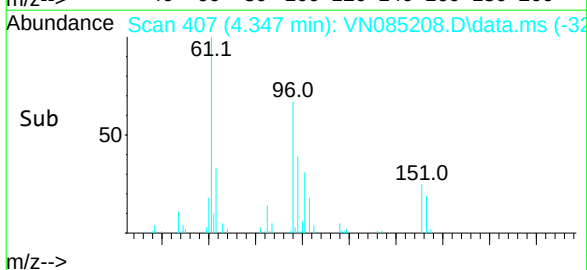
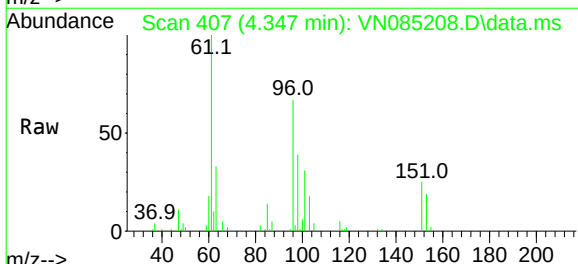
Manual Integrations
APPROVED

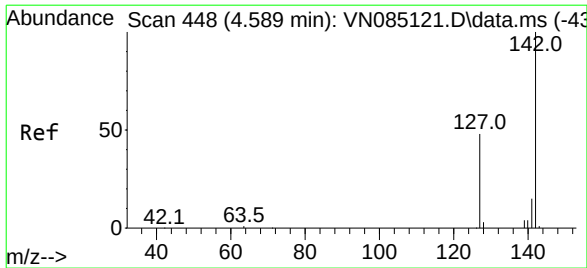
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024



#10
1,1-Dichloroethene
Concen: 19.695 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

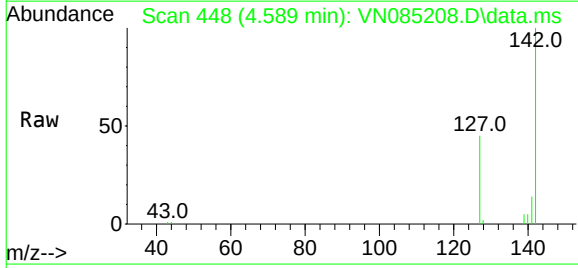
Tgt Ion: 96 Resp: 36972
Ion Ratio Lower Upper
96 100
61 148.9 123.0 184.4
98 57.8 49.1 73.7





#11
Methyl Iodide
Concen: 17.647 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

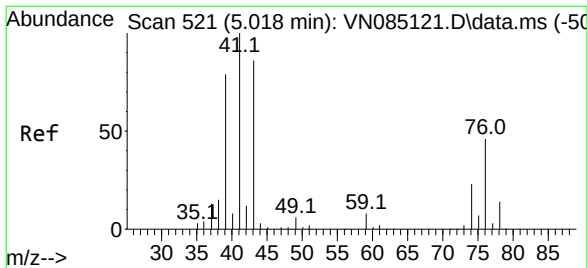
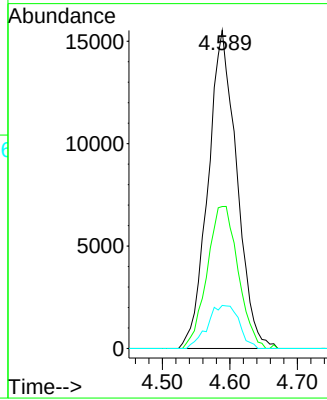
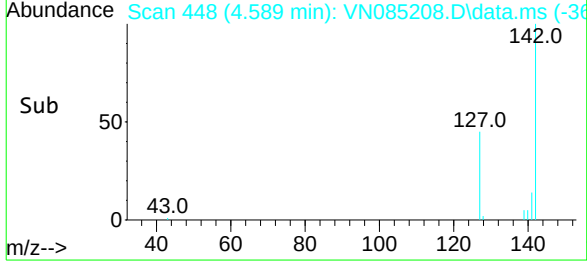
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



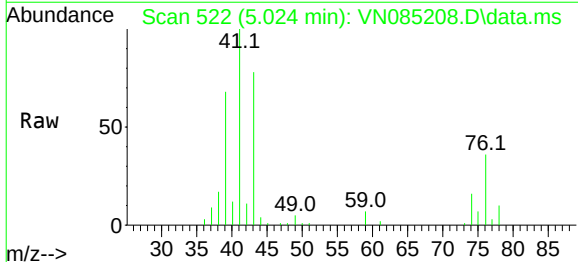
Tgt Ion: 142 Resp: 45944
Ion Ratio Lower Upper
142 100
127 44.6 22.5 67.5
141 13.5 8.3 24.9

Manual Integrations
APPROVED

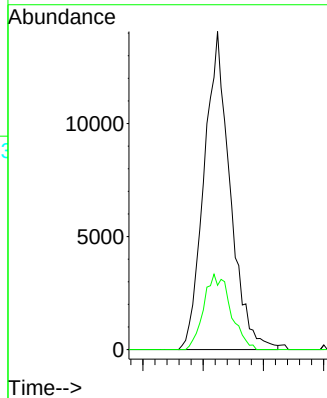
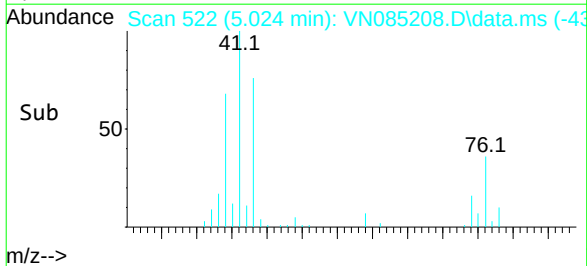
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

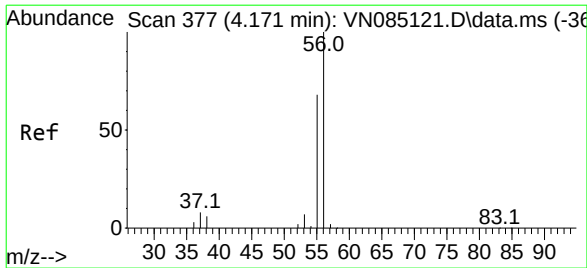


#12
Methyl Acetate
Concen: 19.041 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19



Tgt Ion: 43 Resp: 42168
Ion Ratio Lower Upper
43 100
74 20.3 19.8 29.6





#13

Acrolein

Concen: 108.358 ug/l

RT: 4.183 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

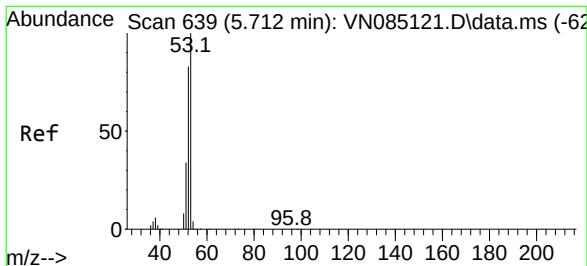
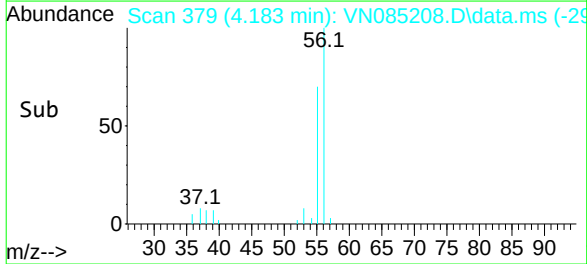
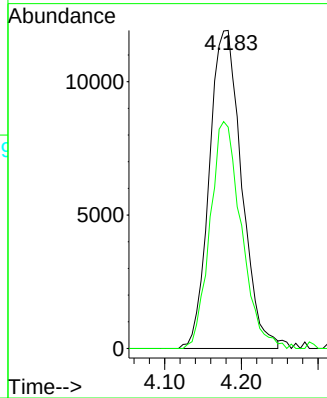
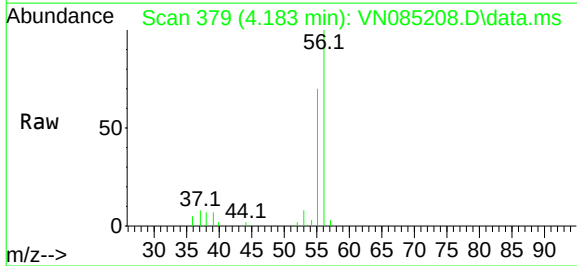
Tgt Ion	Ratio	Lower	Upper
56	100		
55	69.0	59.4	89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#14

Acrylonitrile

Concen: 93.137 ug/l

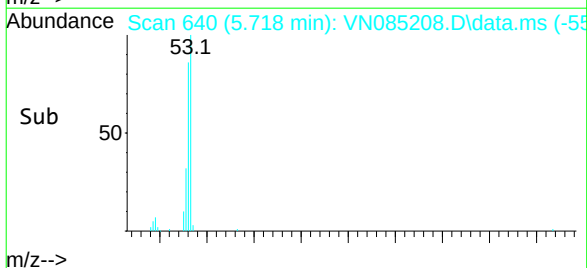
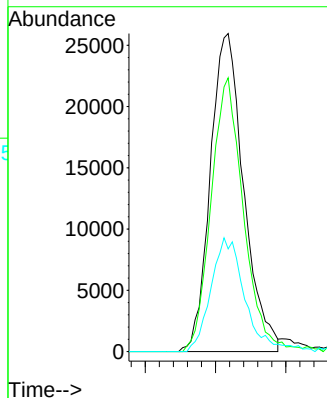
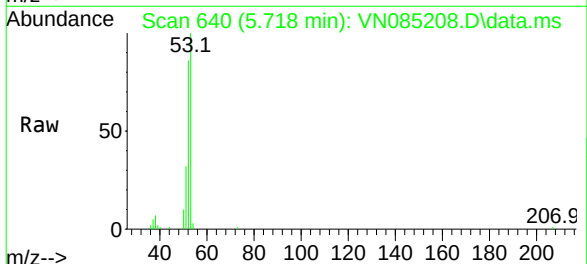
RT: 5.718 min Scan# 640

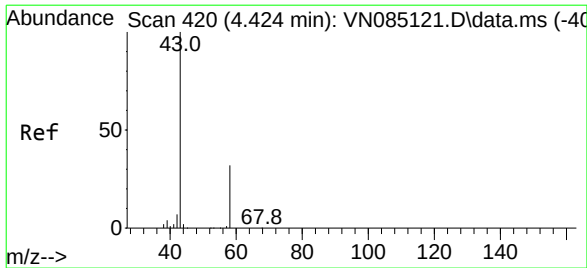
Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Tgt Ion	Ratio	Lower	Upper
53	100		
52	82.7	42.9	128.5
51	35.7	17.2	51.5





#15

Acetone

Concen: 103.954 ug/l

RT: 4.430 min Scan# 420

Delta R.T. 0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

Tgt Ion: 58 Resp: 25905

Ion Ratio Lower Upper

58 100

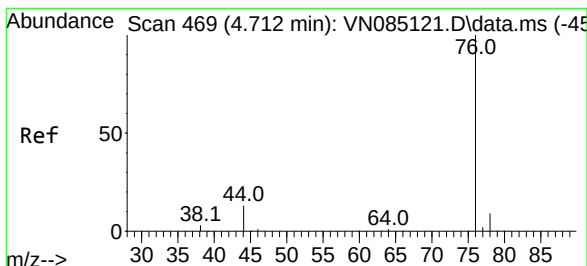
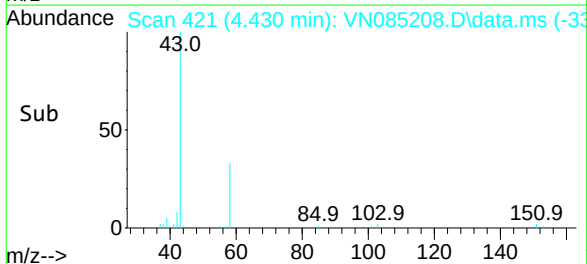
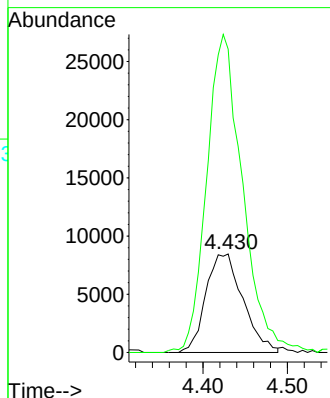
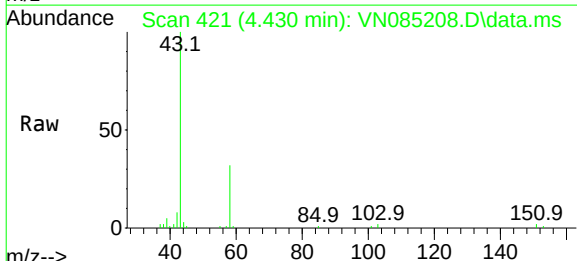
43 311.0 242.3 363.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#16

Carbon Disulfide

Concen: 19.057 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085208.D

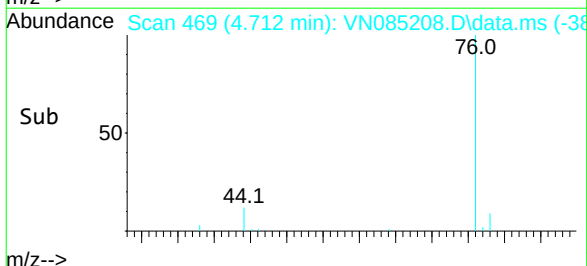
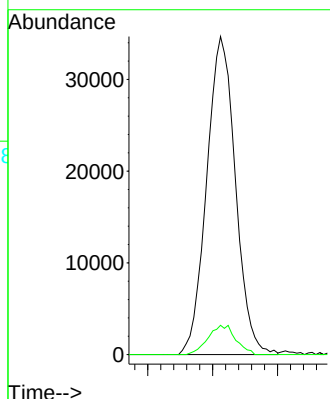
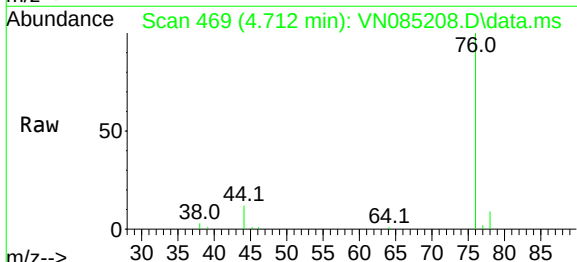
Acq: 16 Dec 2024 10:19

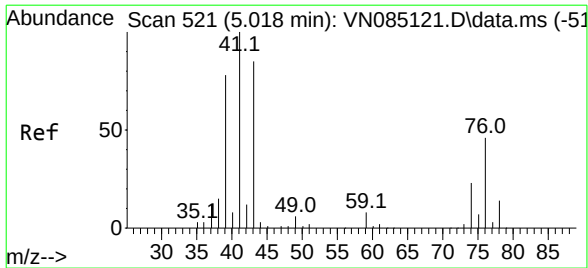
Tgt Ion: 76 Resp: 106931

Ion Ratio Lower Upper

76 100

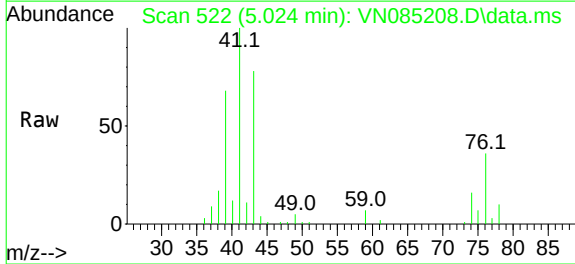
78 9.2 7.1 10.7





#17
 Allyl chloride
 Concen: 19.871 ug/l
 RT: 5.024 min Scan# 521
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

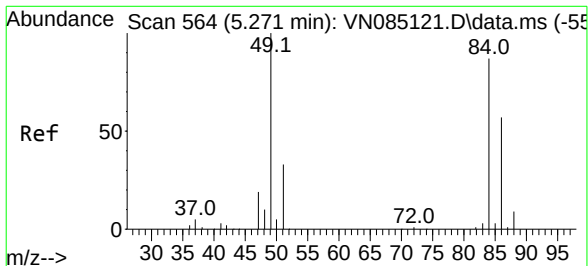
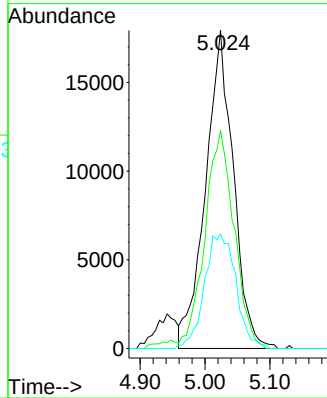
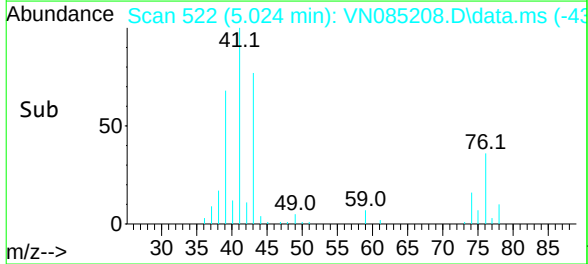
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01



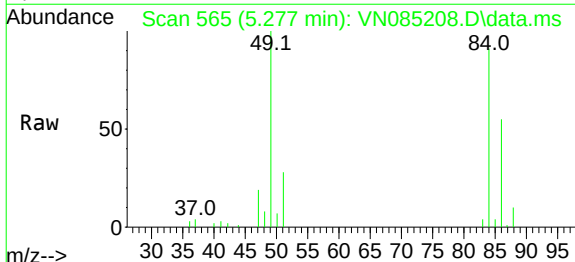
Tgt Ion:	41	Resp:	53377
Ion	Ratio	Lower	Upper
41	100		
39	68.4	32.0	96.2
76	35.9	20.2	60.5

Manual Integrations
 APPROVED

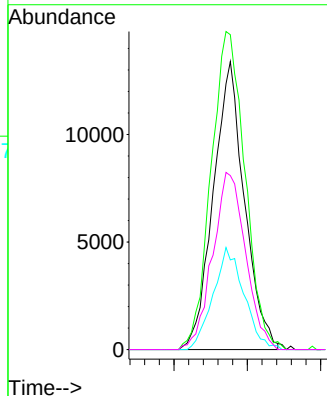
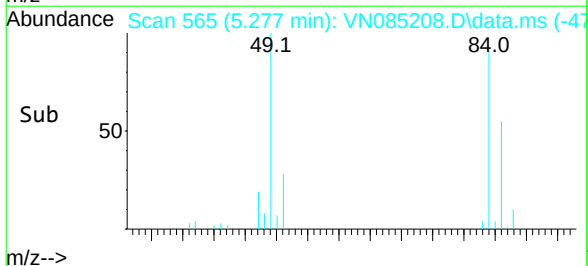
Reviewed By :John Carlone 12/16/2024
 Supervised By :Mahesh Dadoda 12/17/2024

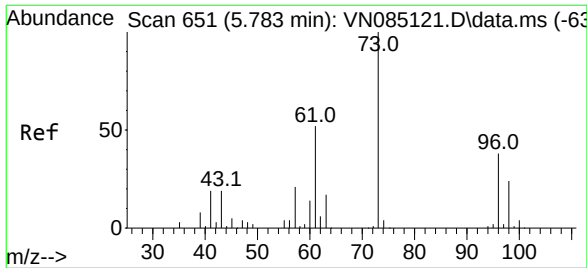


#18
 Methylene Chloride
 Concen: 18.537 ug/l
 RT: 5.277 min Scan# 565
 Delta R.T. 0.006 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19



Tgt Ion:	84	Resp:	39484
Ion	Ratio	Lower	Upper
84	100		
49	109.3	95.1	142.7
51	31.1	27.4	41.0
86	60.4	50.9	76.3





#19

trans-1,2-Dichloroethene

Concen: 19.519 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

Tgt Ion: 96 Resp: 38087

Ion Ratio Lower Upper

96 100

61 140.1 100.4 150.6

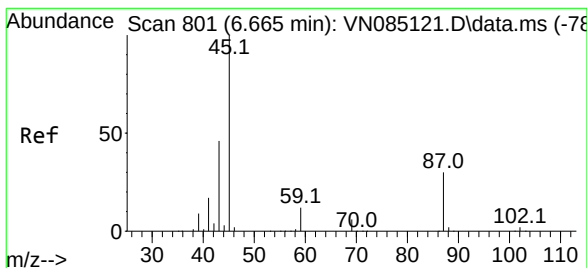
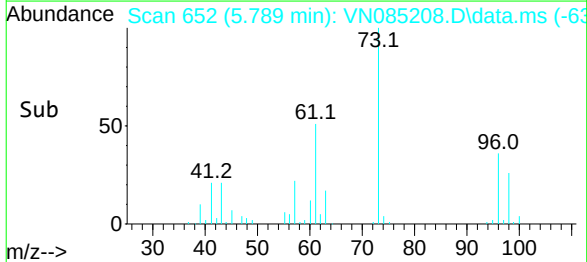
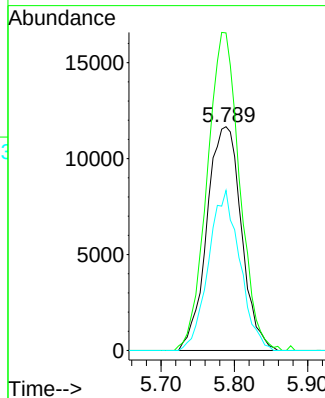
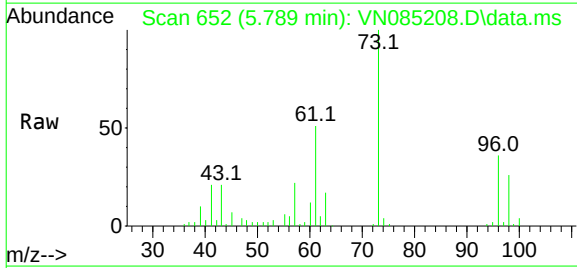
98 71.5 52.6 79.0

Manual Integrations

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Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#20

Diisopropyl ether

Concen: 19.573 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Tgt Ion: 45 Resp: 115380

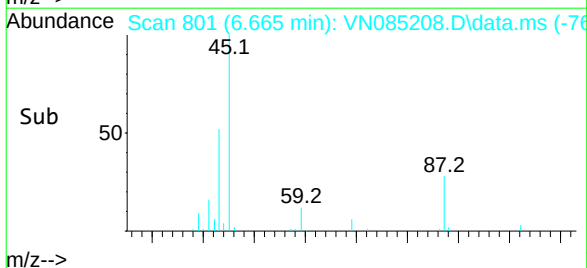
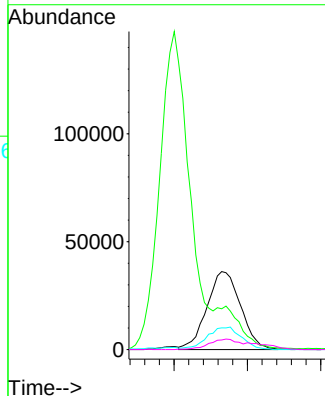
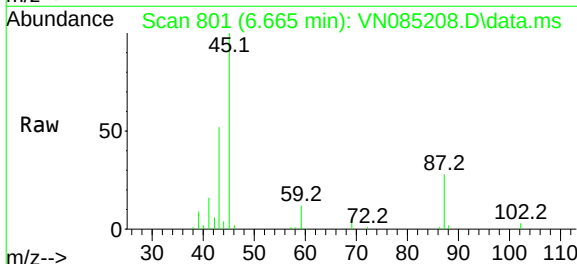
Ion Ratio Lower Upper

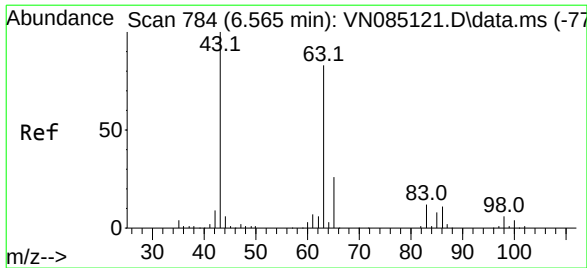
45 100

43 50.4 41.9 62.9

87 28.0 24.1 36.1

59 11.9 10.0 15.0





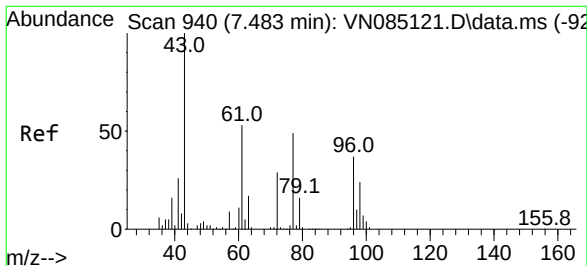
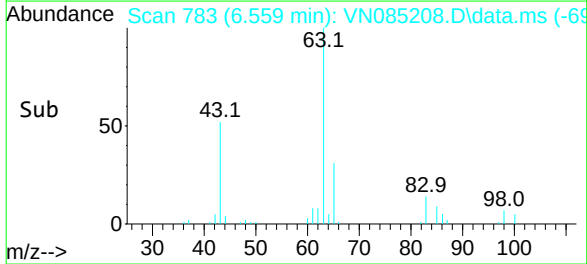
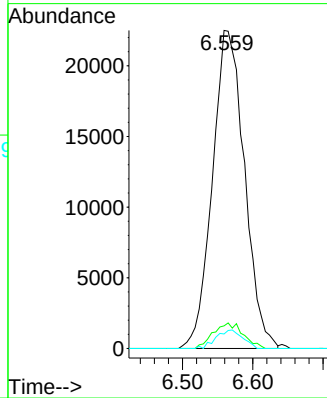
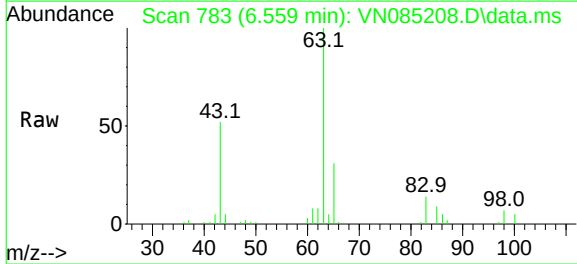
#21
1,1-Dichloroethane
Concen: 19.601 ug/l
RT: 6.559 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.4
100	4.6	1.6	4.8

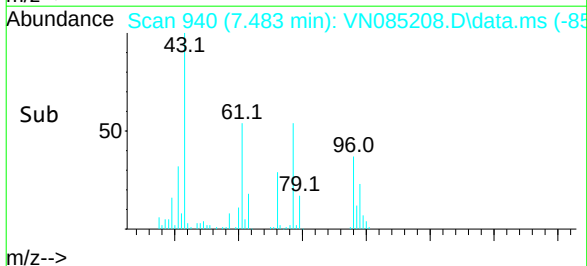
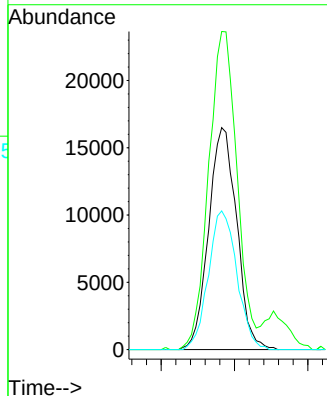
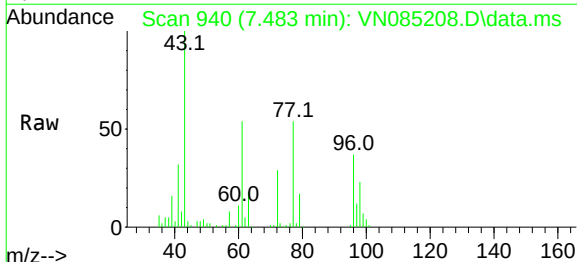
Manual Integrations
APPROVED

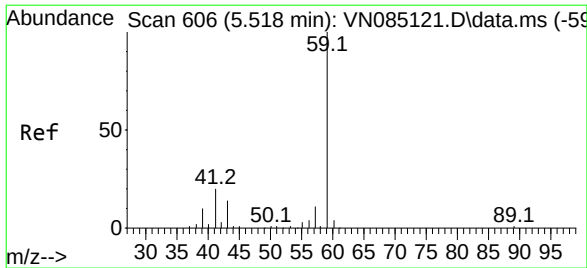
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#22
cis-1,2-Dichloroethene
Concen: 19.576 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	144.6	115.9	173.9
98	63.6	51.8	77.8





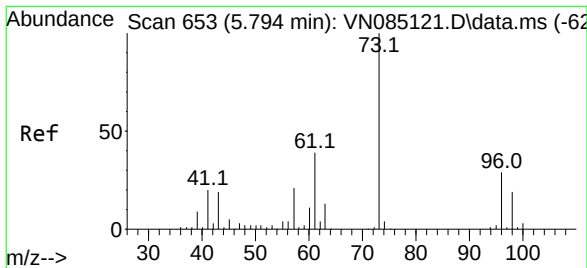
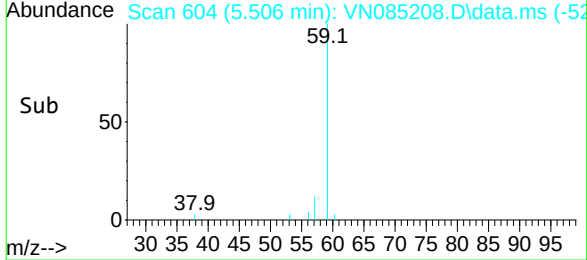
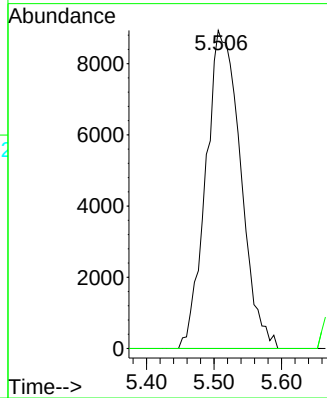
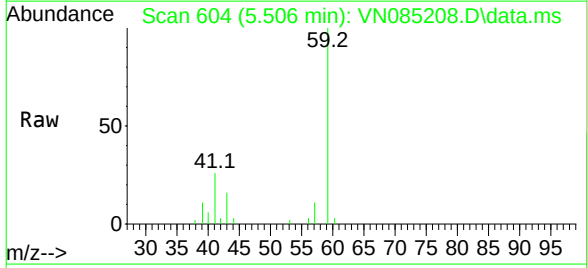
#23
tert-Butyl Alcohol
Concen: 96.694 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion: 59 Resp: 31898
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

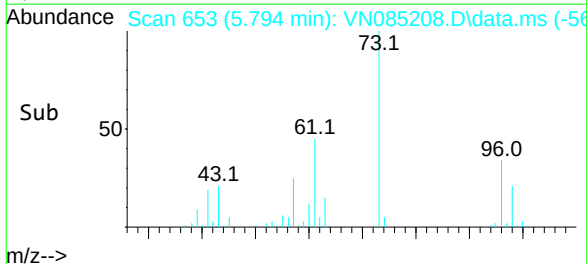
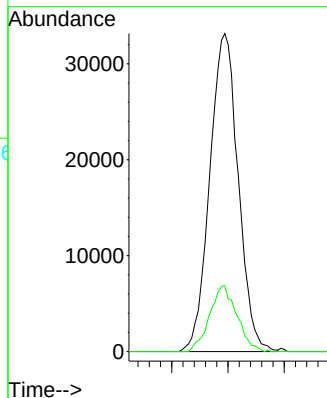
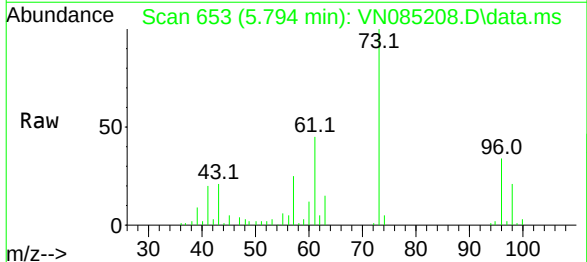
Manual Integrations
APPROVED

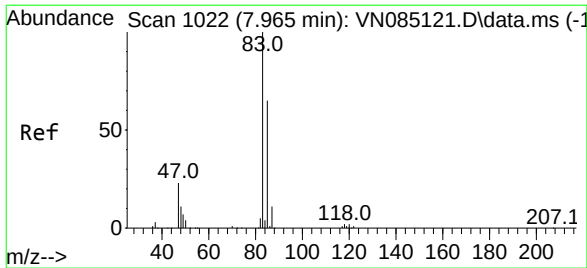
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#24
Methyl tert-Butyl Ether
Concen: 19.863 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 73 Resp: 116497
Ion Ratio Lower Upper
73 100
43 19.8 8.7 13.1#





#25

Chloroform

Concen: 19.757 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

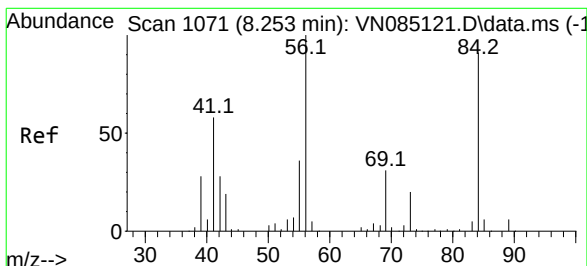
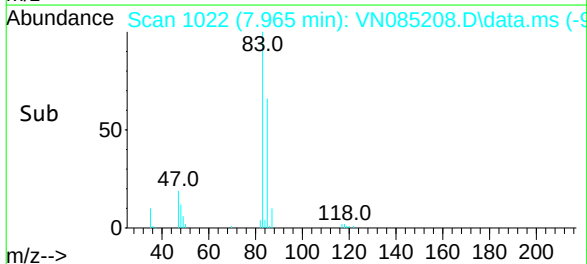
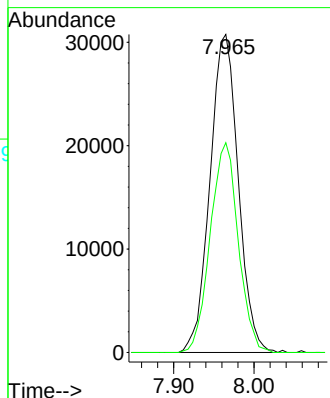
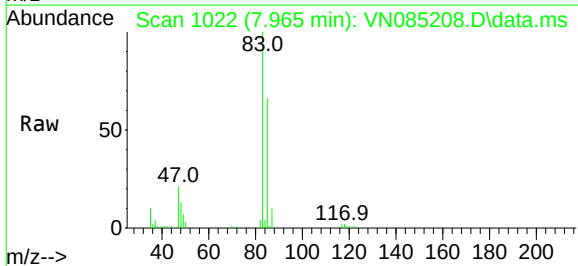
VN1216WBS01

Tgt Ion: 83 Resp: 75307
 Ion Ratio Lower Upper
 83 100
 85 66.0 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024
 Supervised By :Mahesh Dadoda 12/17/2024



#26

Cyclohexane

Concen: 19.340 ug/l

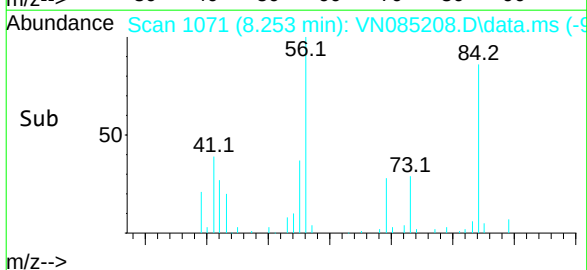
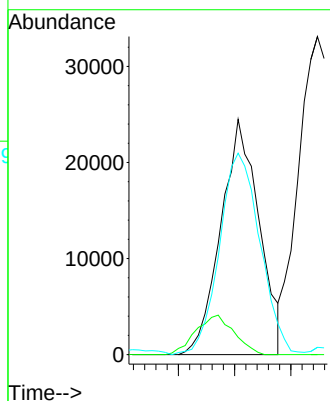
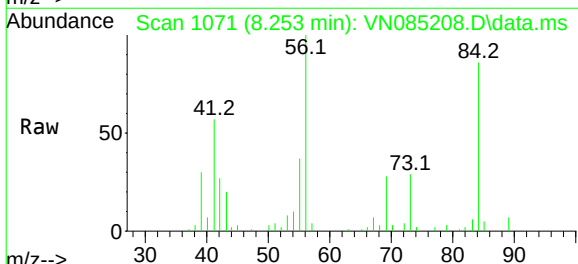
RT: 8.253 min Scan# 1071

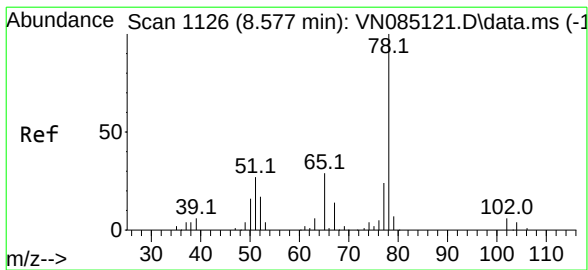
Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Tgt Ion: 56 Resp: 57940
 Ion Ratio Lower Upper
 56 100
 89 16.8 19.5 29.3#
 84 90.7 70.6 105.8



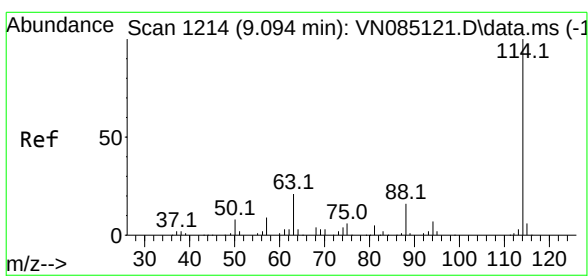
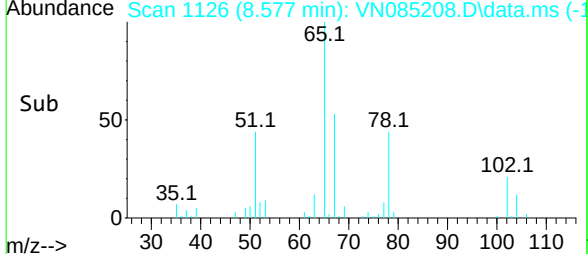
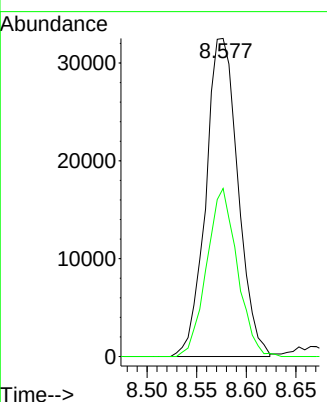
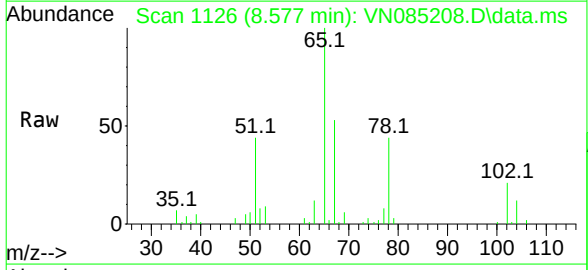


#27
 1,2-Dichloroethane-d4
 Concen: 30.028 ug/l
 RT: 8.577 min Scan# 111
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Instrument : MSVOA_N
 ClientSampleId : VN1216WBS01

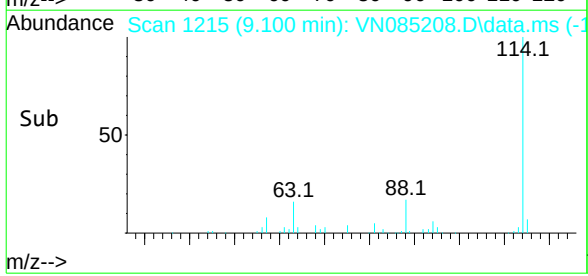
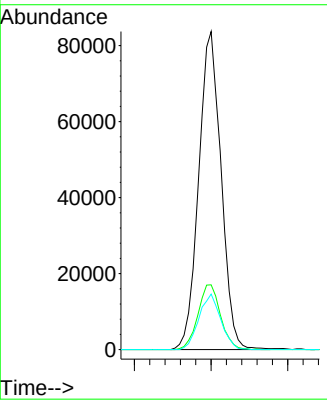
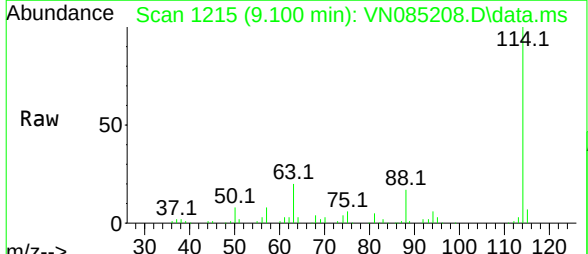
Tgt Ion:	65	Resp:	73444
Ion Ratio	Lower	Upper	
65	100		
67	49.8	39.9	59.9

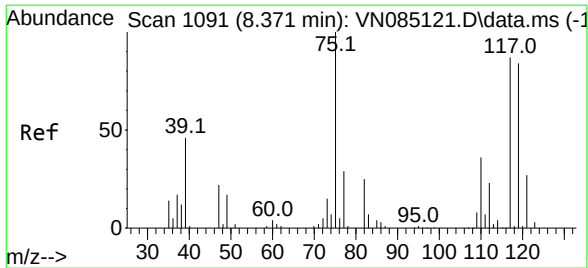
Manual Integrations
APPROVED
 Reviewed By :John Carlone 12/16/2024
 Supervised By :Mahesh Dadoda 12/17/2024



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

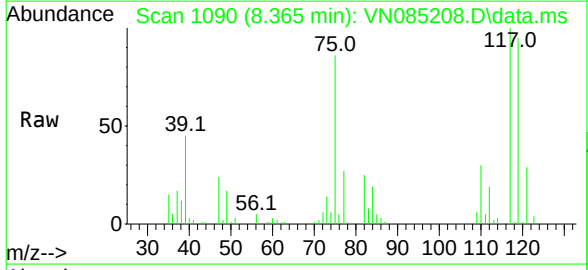
Tgt Ion:	114	Resp:	169823
Ion Ratio	Lower	Upper	
114	100		
63	20.5	16.2	24.2
88	17.0	12.5	18.7





#29
1,1-Dichloropropene
Concen: 18.361 ug/l
RT: 8.365 min Scan# 1091
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

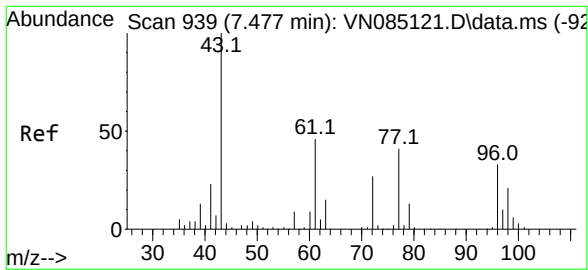
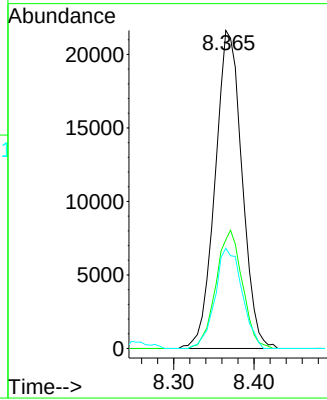
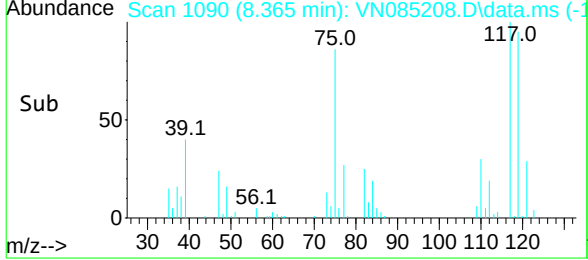
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



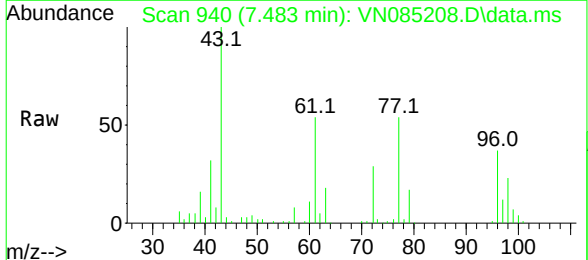
Tgt Ion: 75 Resp: 50315
Ion Ratio Lower Upper
75 100
110 36.4 0.0 71.6
77 31.7 0.0 62.2

Manual Integrations
APPROVED

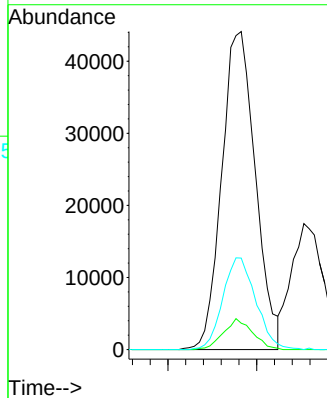
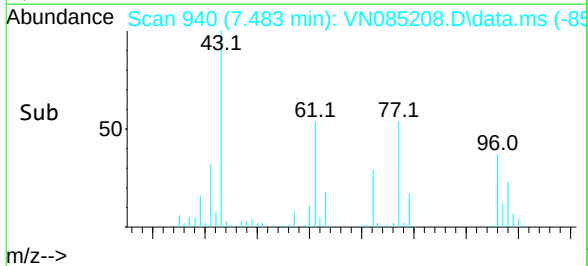
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

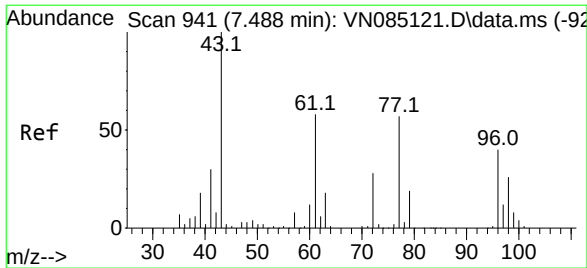


#30
2-Butanone
Concen: 92.579 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19



Tgt Ion: 43 Resp: 116422
Ion Ratio Lower Upper
43 100
57 8.4 6.9 10.3
72 28.2 21.8 32.8





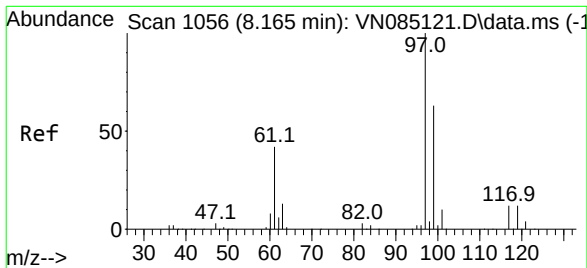
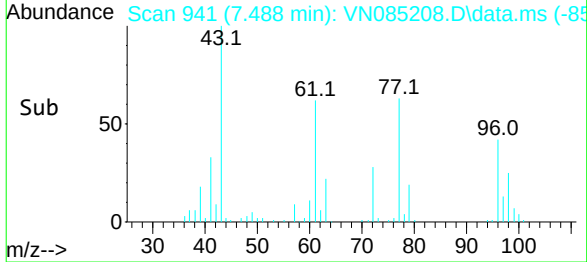
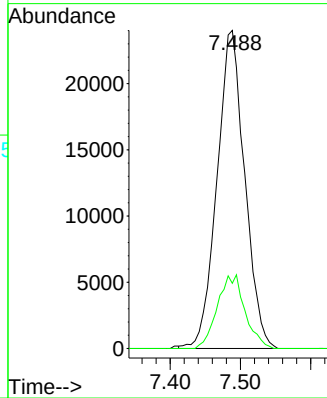
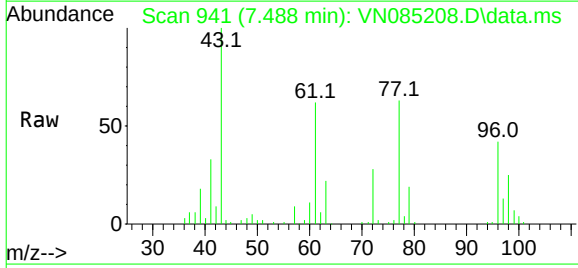
#31
2,2-Dichloropropane
Concen: 18.711 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion: 77 Resp: 65751
Ion Ratio Lower Upper
77 100
97 23.1 0.0 0.0#

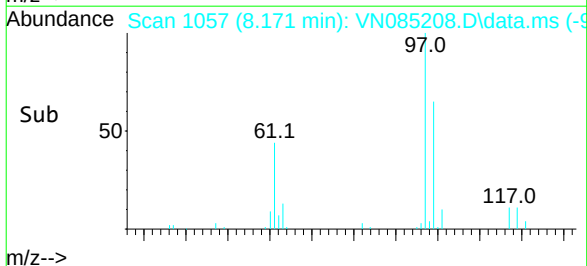
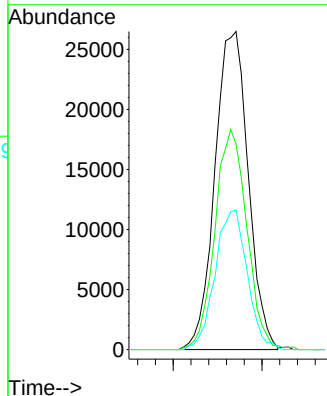
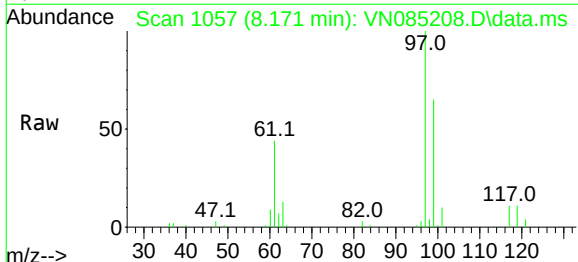
Manual Integrations
APPROVED

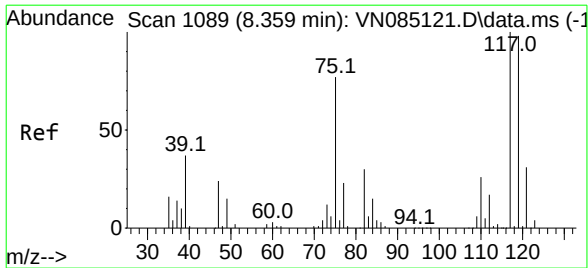
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#32
1,1,1-Trichloroethane
Concen: 18.605 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

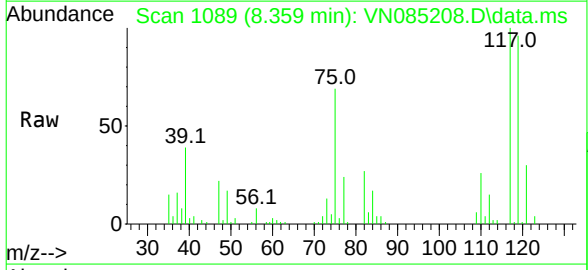
Tgt Ion: 97 Resp: 69008
Ion Ratio Lower Upper
97 100
99 66.2 50.8 76.2
61 42.3 32.7 49.1





#33
Carbon Tetrachloride
Concen: 18.985 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

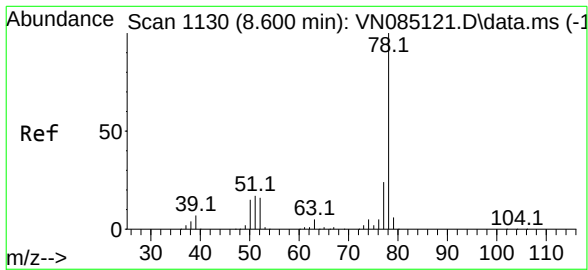
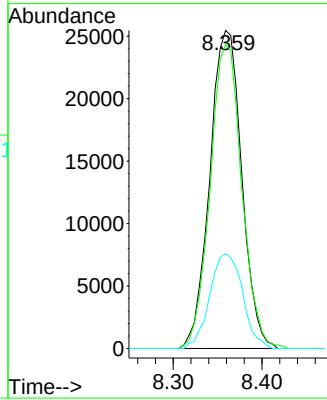
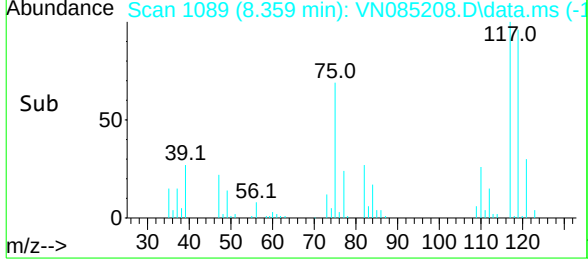
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



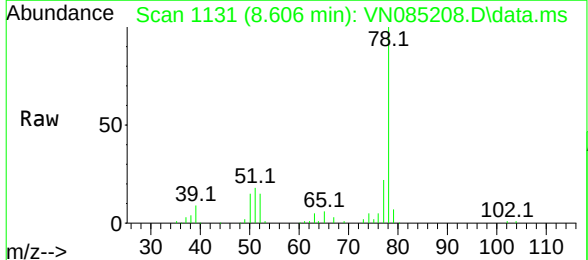
Tgt Ion: 117 Resp: 63544
Ion Ratio Lower Upper
117 100
119 95.6 81.6 122.4
121 29.7 26.5 39.7

Manual Integrations
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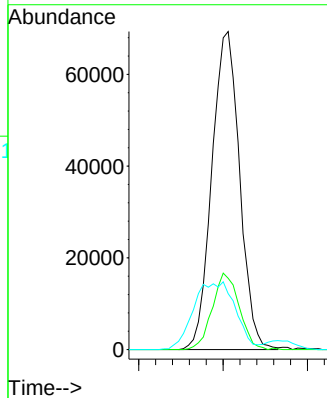
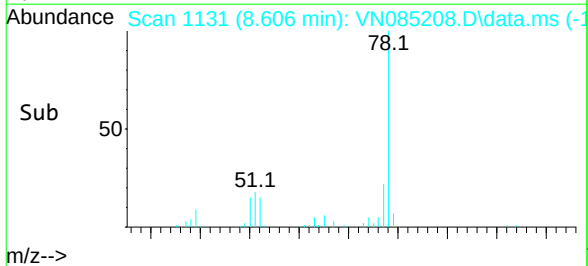
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

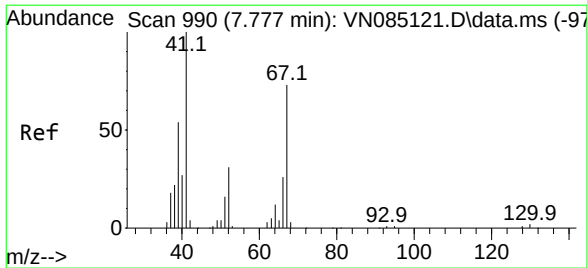


#34
Benzene
Concen: 18.431 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19



Tgt Ion: 78 Resp: 158668
Ion Ratio Lower Upper
78 100
77 22.4 18.0 27.0
51 15.0 12.4 18.6





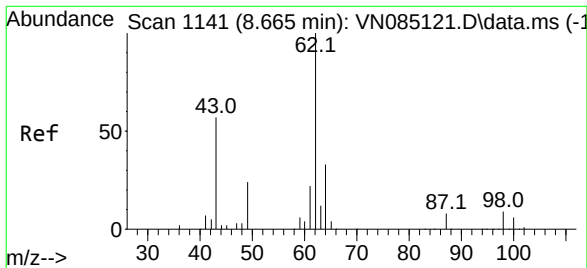
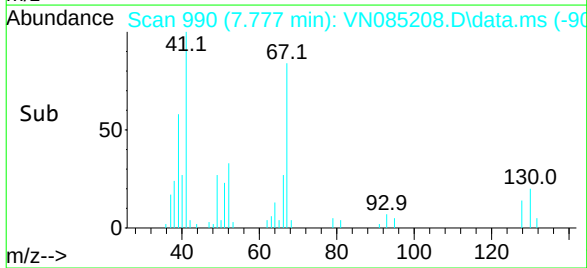
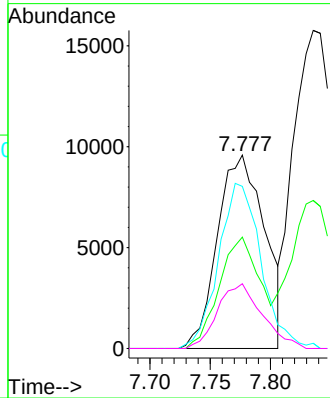
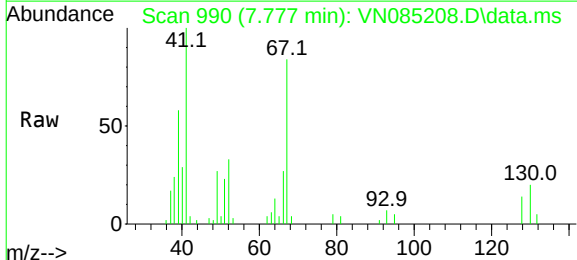
#35
Methacrylonitrile
Concen: 18.445 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion:	41	Resp:	26103
Ion	Ratio	Lower	Upper
41	100		
39	57.6	24.4	73.2
67	83.8	37.0	110.9
52	33.5	12.4	37.2

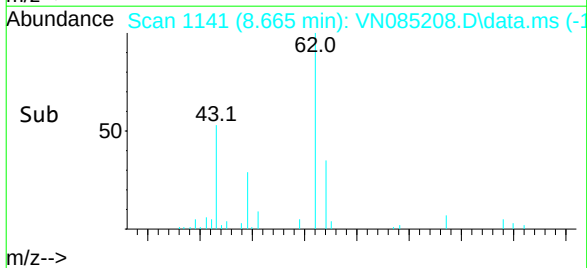
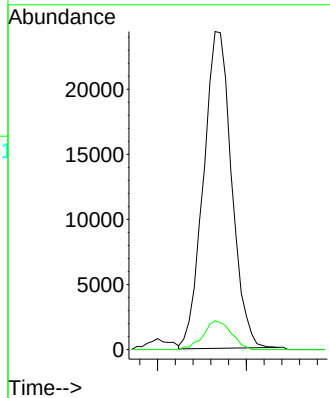
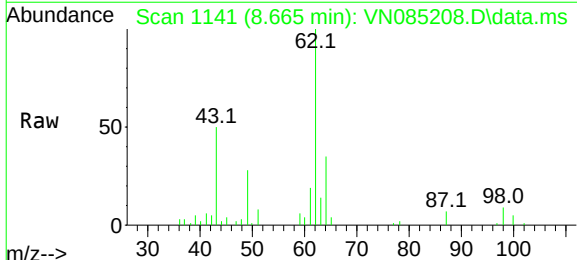
Manual Integrations
APPROVED

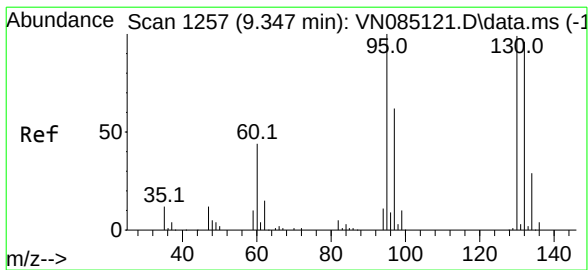
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#36
1,2-Dichloroethane
Concen: 18.273 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

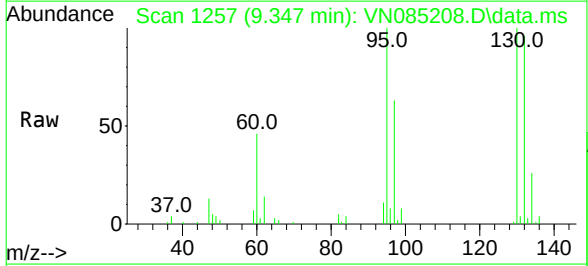
Tgt Ion:	62	Resp:	53550
Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.3	10.9





#37
 Trichloroethene
 Concen: 18.494 ug/l
 RT: 9.347 min Scan# 1257
 Delta R.T. -0.006 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

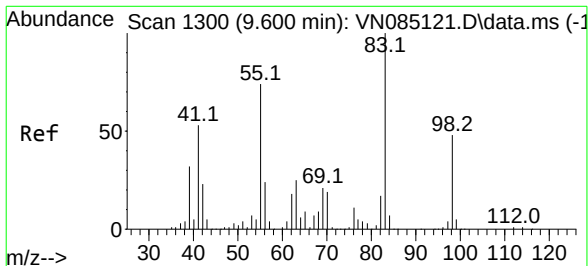
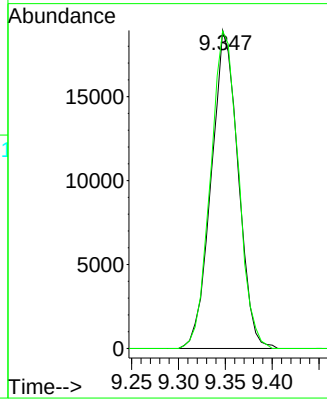
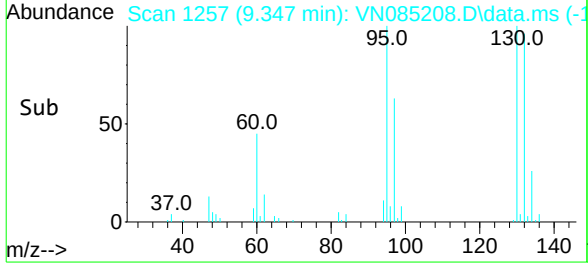
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01



Tgt Ion: 130 Resp: 37914
 Ion Ratio Lower Upper
 130 100
 95 99.8 76.2 114.4

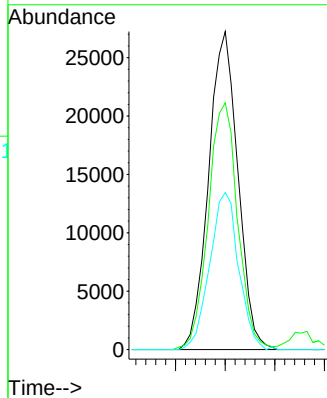
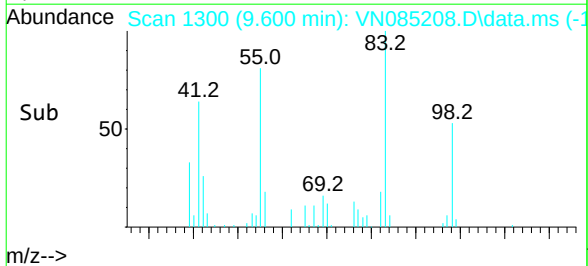
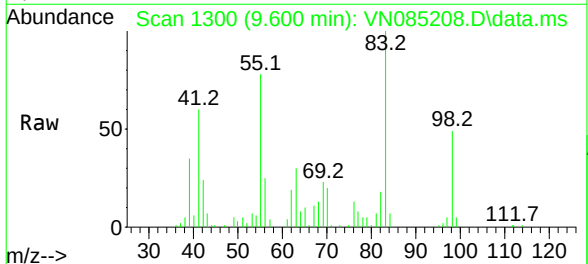
Manual Integrations
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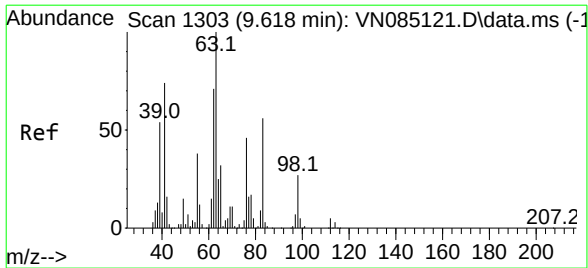
Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024



#38
 Methylcyclohexane
 Concen: 18.747 ug/l
 RT: 9.600 min Scan# 1300
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

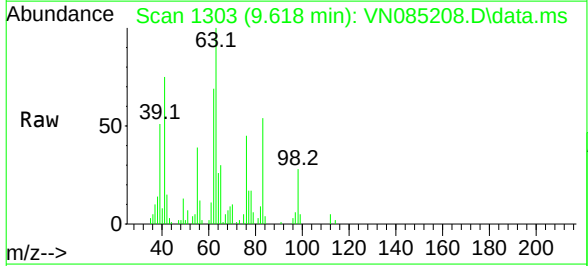
Tgt Ion: 83 Resp: 55860
 Ion Ratio Lower Upper
 83 100
 55 77.8 41.4 124.4
 98 48.7 25.7 77.1





#39
1,2-Dichloropropane
Concen: 18.527 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

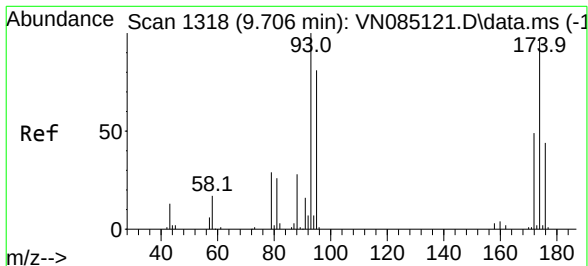
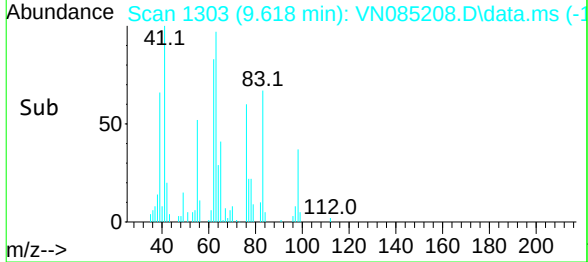
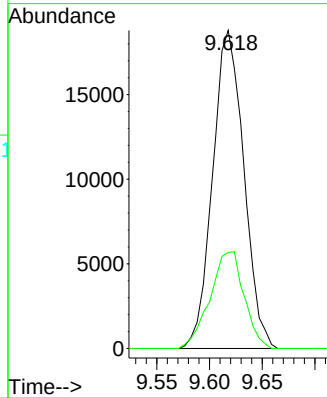
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 63 Resp: 38631
Ion Ratio Lower Upper
63 100
65 30.2 23.4 35.0

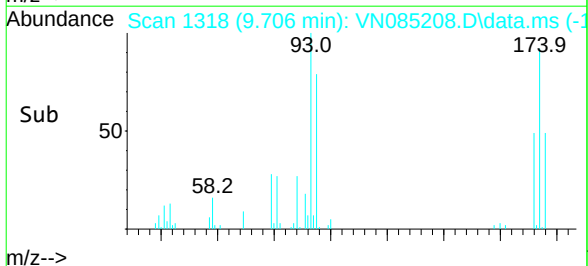
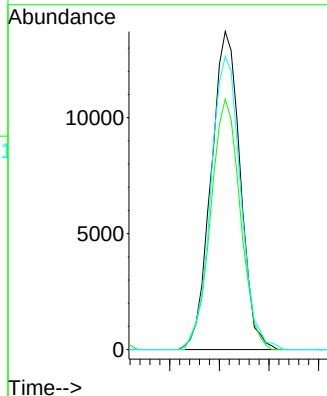
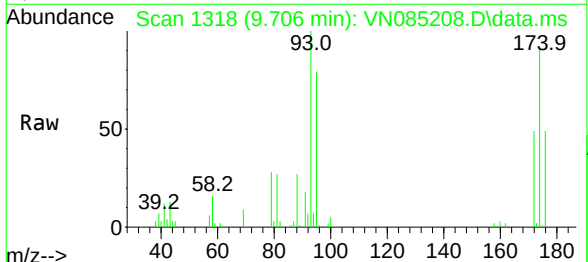
Manual Integrations
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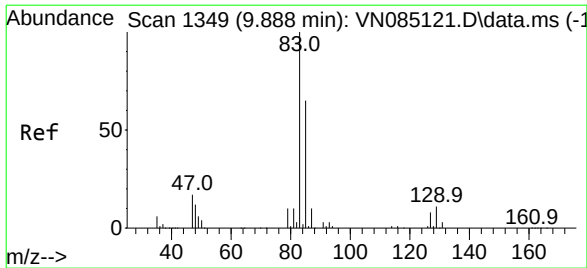
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#40
Dibromomethane
Concen: 18.712 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 93 Resp: 27987
Ion Ratio Lower Upper
93 100
95 79.8 0.0 169.4
174 94.2 0.0 189.8





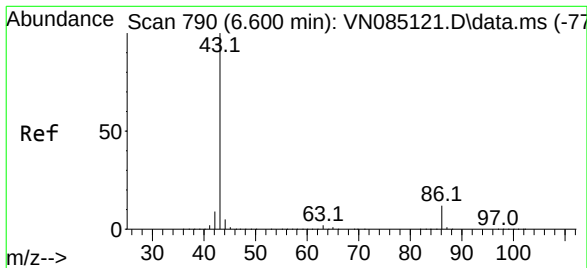
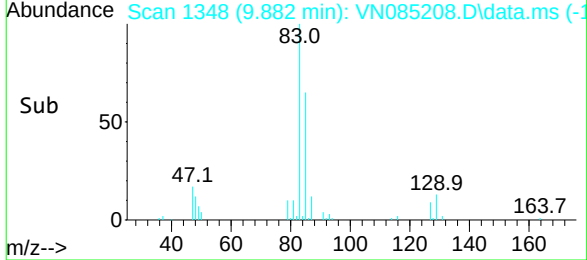
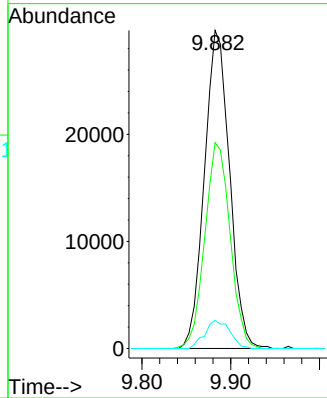
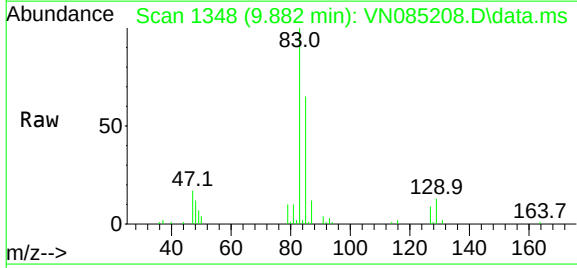
#41
Bromodichloromethane
Concen: 18.262 ug/l
RT: 9.882 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	54.6	81.8
127	8.8	7.0	10.6

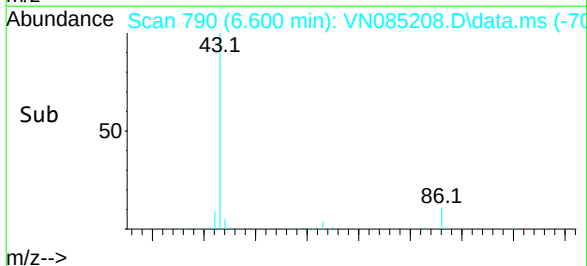
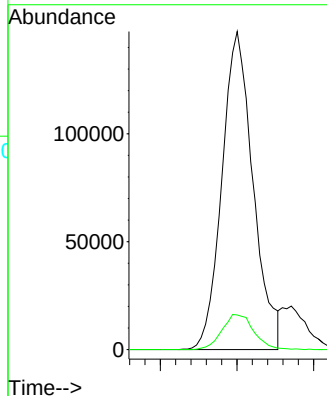
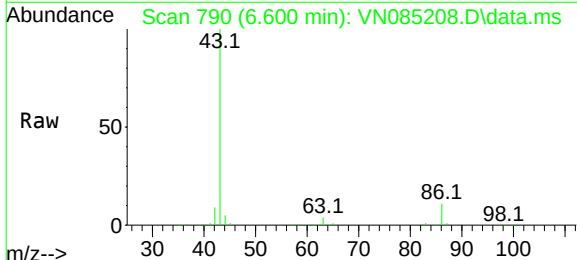
Manual Integrations
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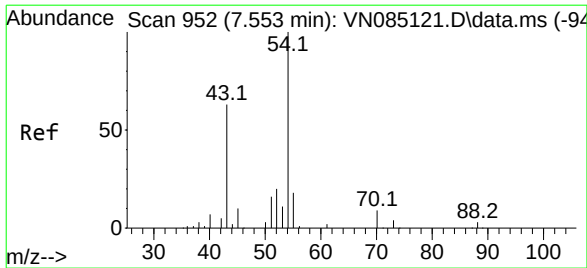
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#42
Vinyl Acetate
Concen: 94.564 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.2	13.8





#43

Ethyl Acetate

Concen: 18.415 ug/l

RT: 7.553 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

Tgt Ion: 43 Resp: 46077

Ion Ratio Lower Upper

43 100

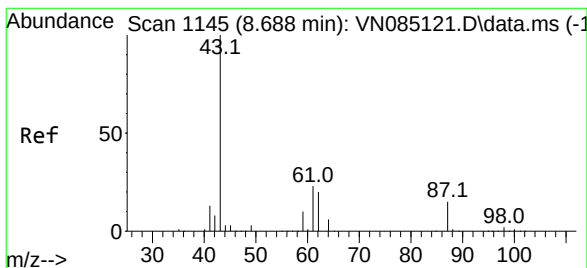
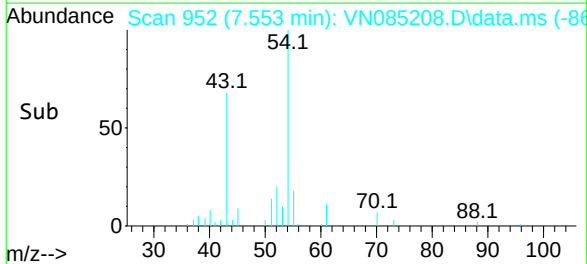
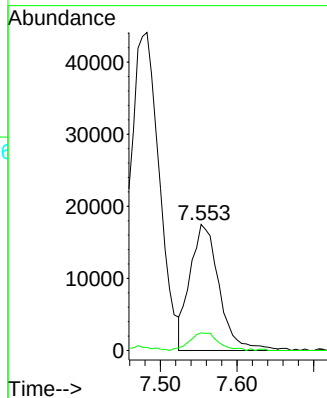
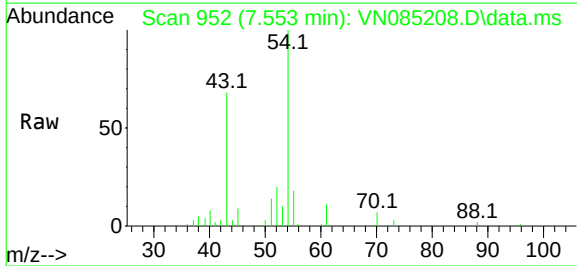
45 13.3 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#44

Isopropyl Acetate

Concen: 18.196 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN085208.D

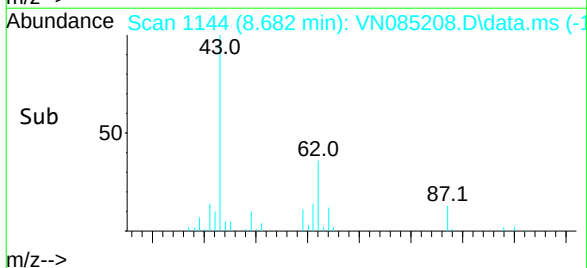
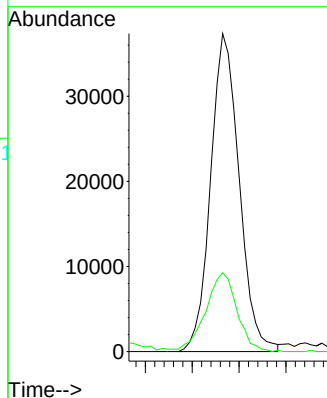
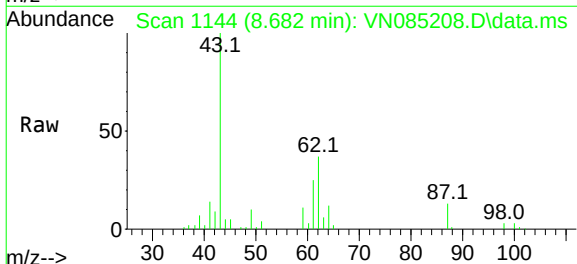
Acq: 16 Dec 2024 10:19

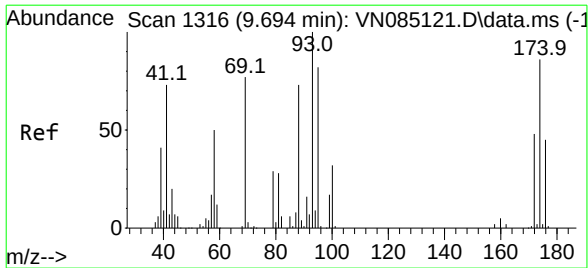
Tgt Ion: 43 Resp: 79121

Ion Ratio Lower Upper

43 100

61 27.0 21.5 32.3





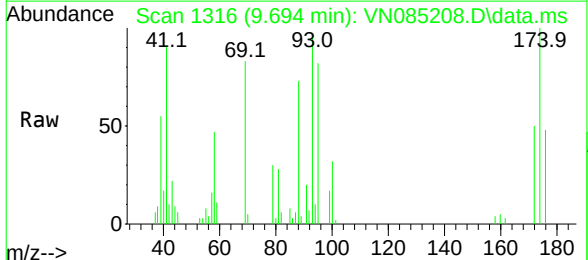
#45
 1,4-Dioxane
 Concen: 379.179 ug/l
 RT: 9.694 min Scan# 1316
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

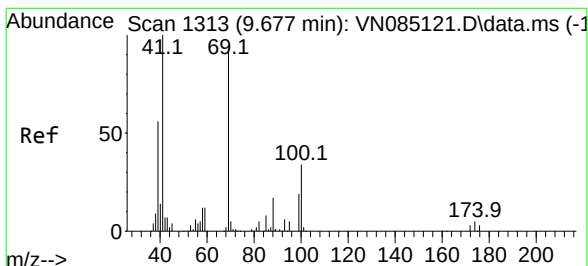
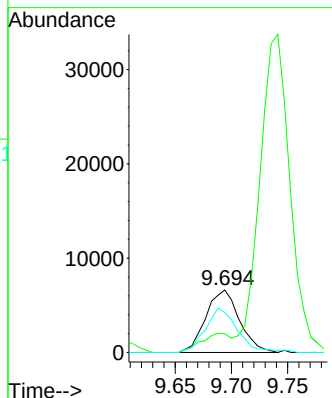
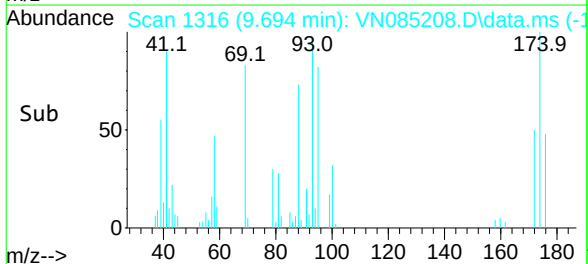
VN1216WBS01



Tgt Ion:	88	Resp:	13749
Ion	Ratio	Lower	Upper
88	100		
43	27.0	21.7	32.5
58	67.7	52.6	79.0

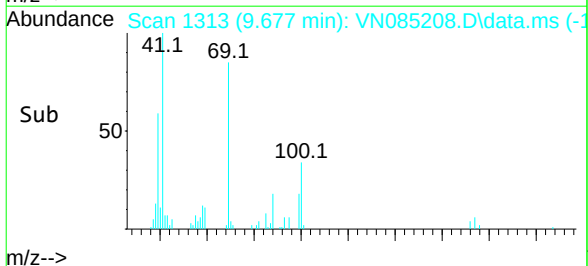
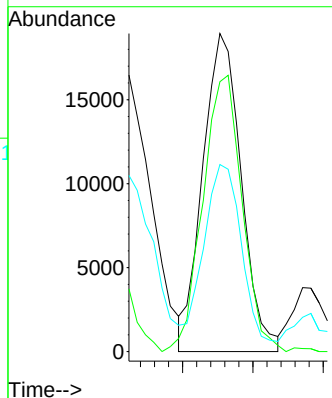
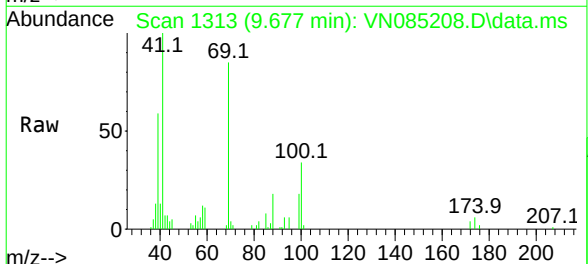
Manual Integrations
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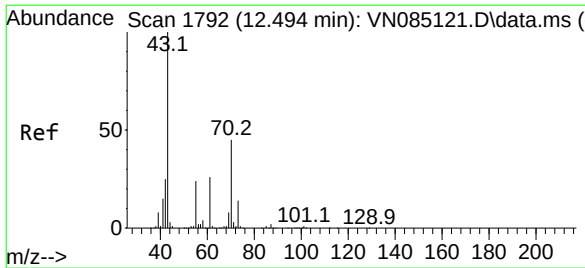
Reviewed By :John Carlone 12/16/2024
 Supervised By :Mahesh Dadoda 12/17/2024



#46
 Methyl methacrylate
 Concen: 18.146 ug/l
 RT: 9.677 min Scan# 1313
 Delta R.T. -0.006 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Tgt Ion:	41	Resp:	36110
Ion	Ratio	Lower	Upper
41	100		
69	87.0	46.7	140.0
39	58.4	28.5	85.5





#47

n-amy1 Acetate

Concen: 17.803 ug/l

RT: 12.488 min Scan# 17

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

Tgt Ion: 43 Resp: 65132

Ion Ratio Lower Upper

43 100

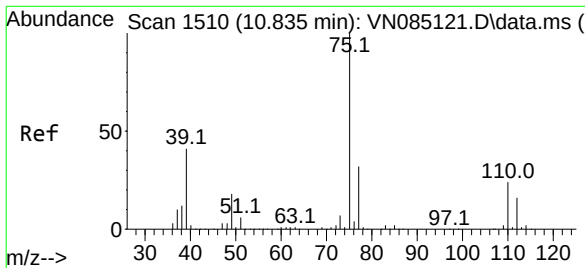
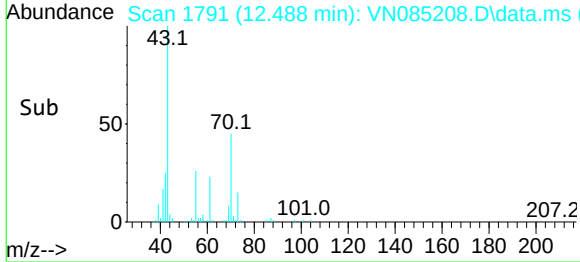
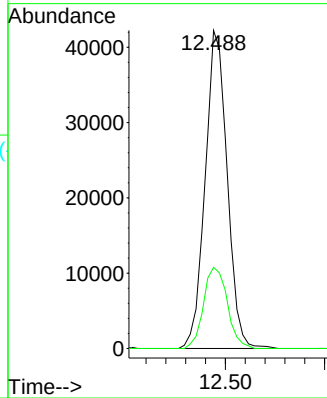
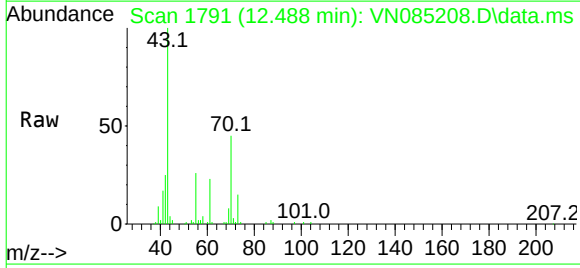
55 27.5 23.3 34.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#48

t-1,3-Dichloropropene

Concen: 18.453 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085208.D

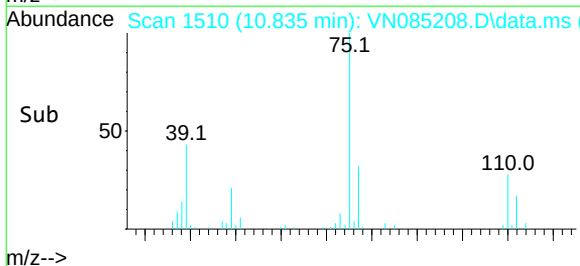
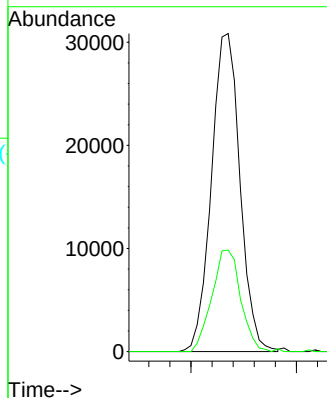
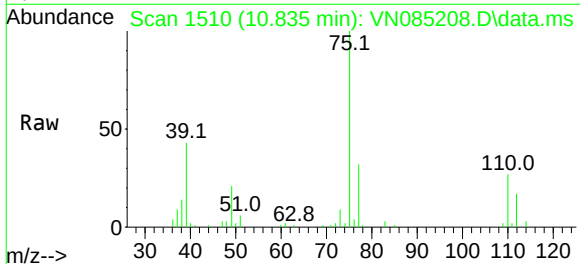
Acq: 16 Dec 2024 10:19

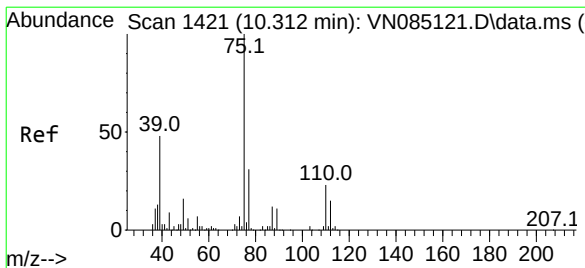
Tgt Ion: 75 Resp: 57919

Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3





#49

cis-1,3-Dichloropropene

Concen: 18.535 ug/l

RT: 10.306 min Scan# 1421

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

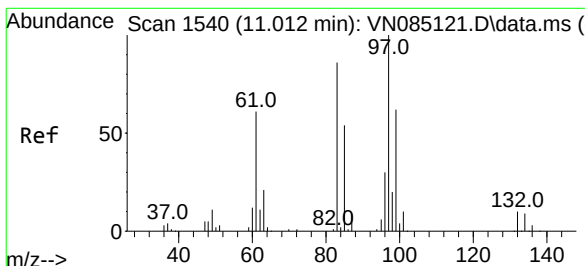
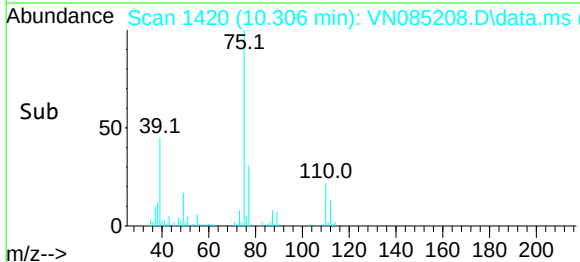
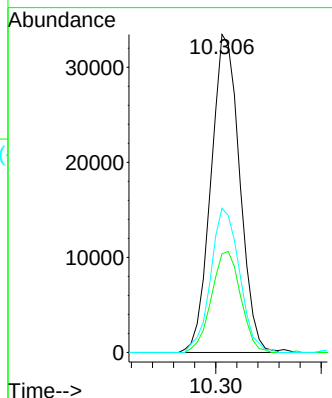
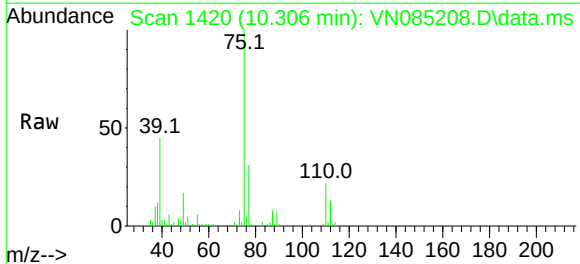
ClientSampleId :

VN1216WBS01

Tgt Ion: 75	Resp: 63332
Ion Ratio	Lower Upper
75 100	
77 31.0	23.8 35.6
39 45.4	37.3 55.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#50

1,1,2-Trichloroethane

Concen: 18.046 ug/l

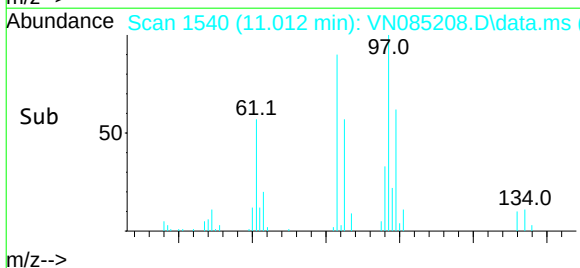
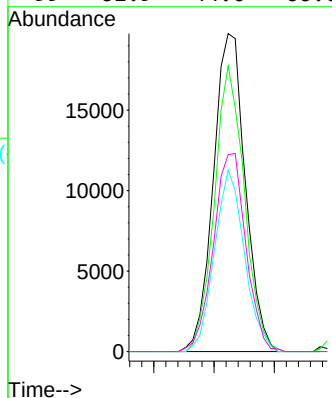
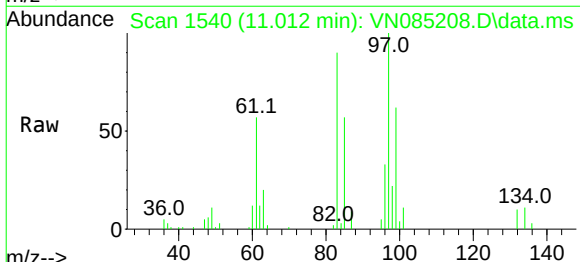
RT: 11.012 min Scan# 1540

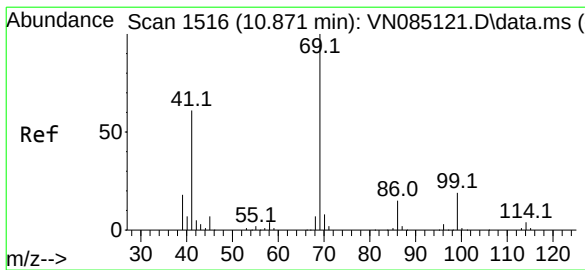
Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Tgt Ion: 97	Resp: 36370
Ion Ratio	Lower Upper
97 100	
83 89.8	65.8 98.8
85 57.1	40.8 61.2
99 61.9	44.0 66.0





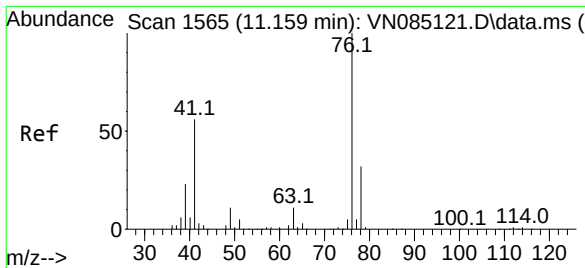
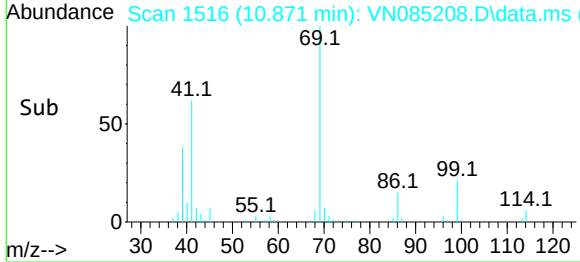
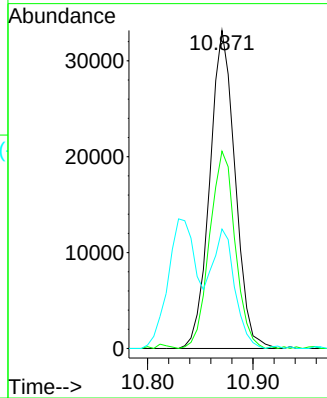
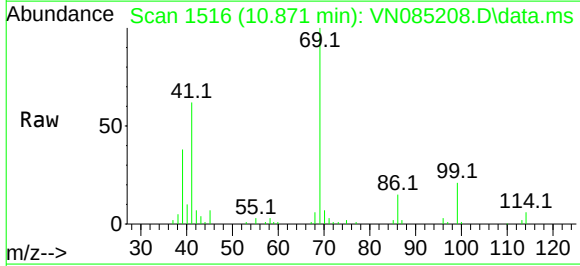
#51
Ethyl methacrylate
Concen: 18.076 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.0	32.1	96.3
39	36.8	18.8	56.4

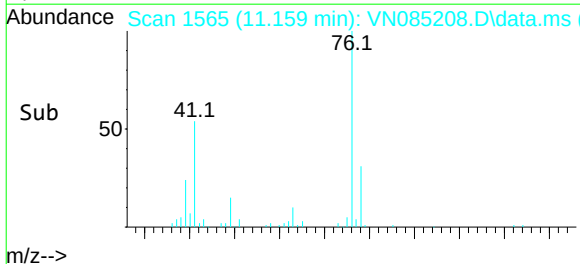
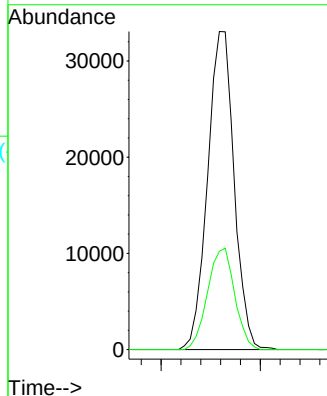
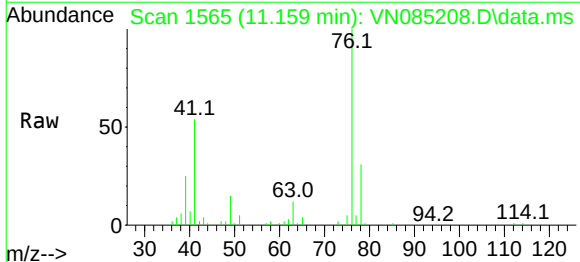
Manual Integrations
APPROVED

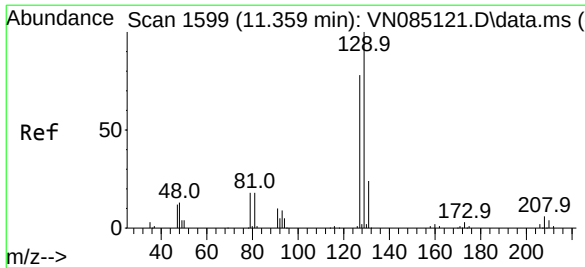
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#52
1,3-Dichloropropane
Concen: 18.210 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.5	0.0	65.6





#53

Dibromochloromethane

Concen: 18.708 ug/l

RT: 11.353 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

Tgt Ion:129 Resp: 45949

Ion Ratio Lower Upper

129 100

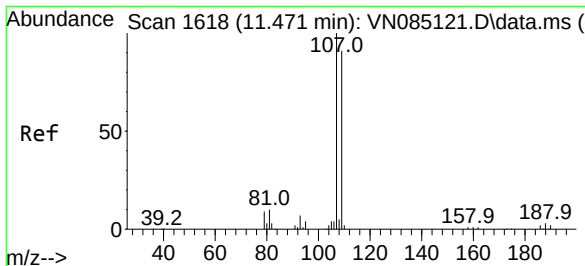
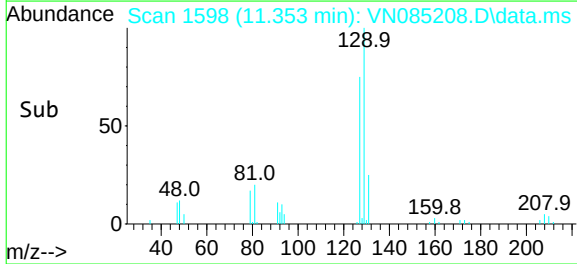
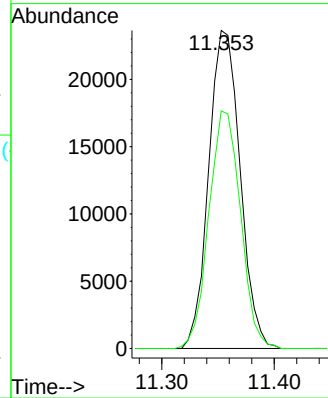
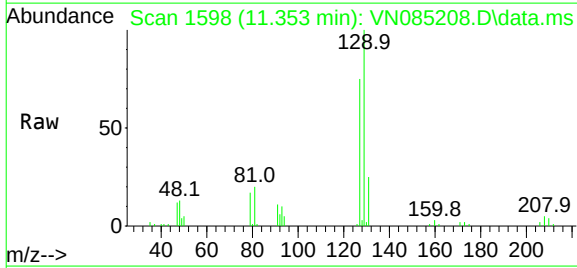
127 75.2 37.3 111.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#54

1,2-Dibromoethane

Concen: 18.272 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. 0.000 min

Lab File: VN085208.D

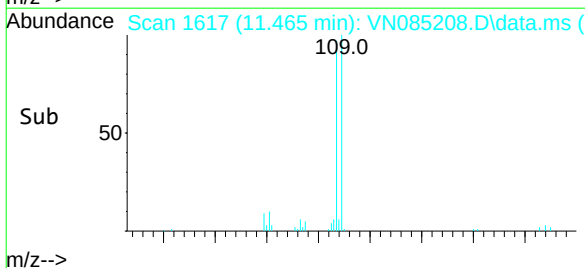
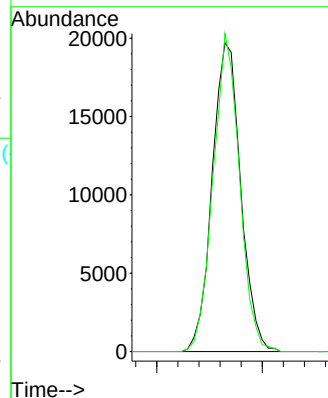
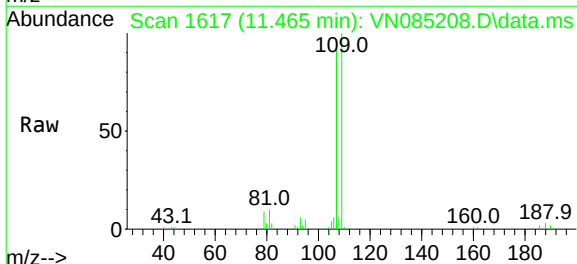
Acq: 16 Dec 2024 10:19

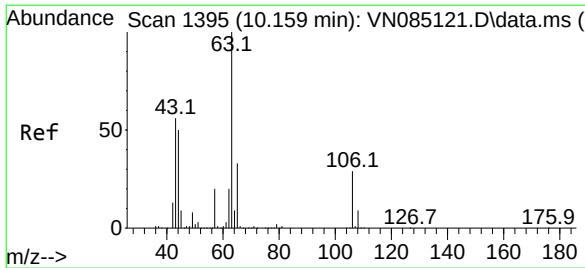
Tgt Ion:107 Resp: 37104

Ion Ratio Lower Upper

107 100

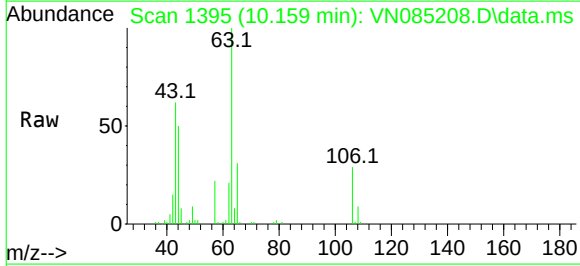
109 95.1 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 61.005 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

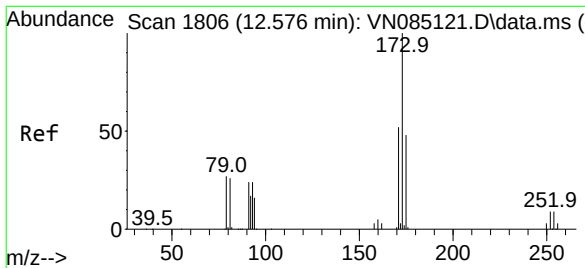
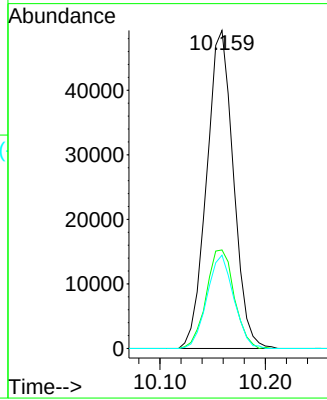
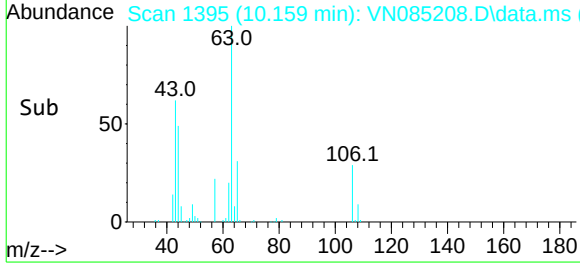
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 63 Resp: 86871
Ion Ratio Lower Upper
63 100
65 32.2 25.9 38.9
106 29.3 23.5 35.3

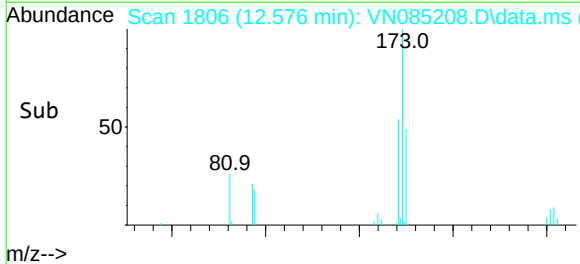
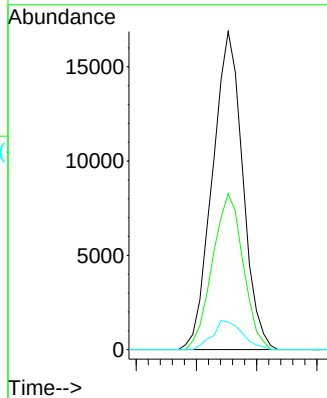
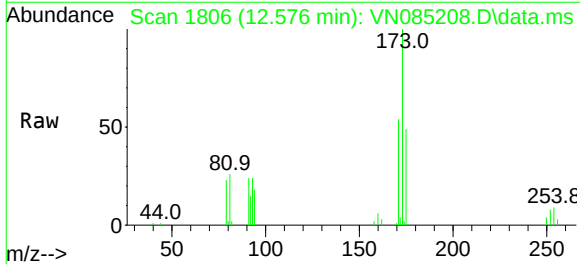
Manual Integrations
APPROVED

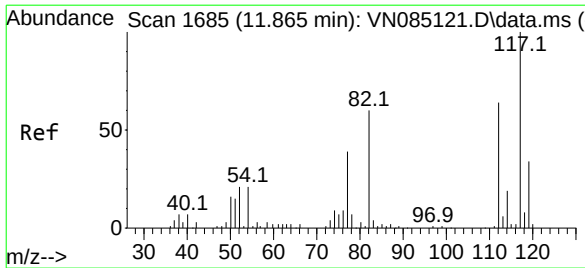
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#56
Bromoform
Concen: 17.887 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:173 Resp: 29455
Ion Ratio Lower Upper
173 100
175 49.6 40.2 60.2
254 9.0 6.2 9.4





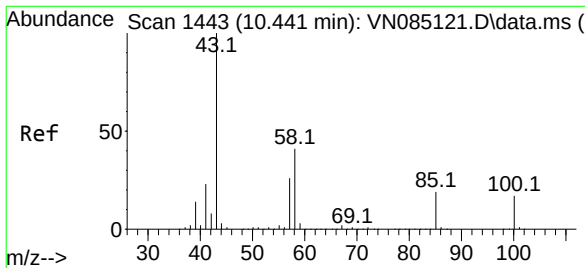
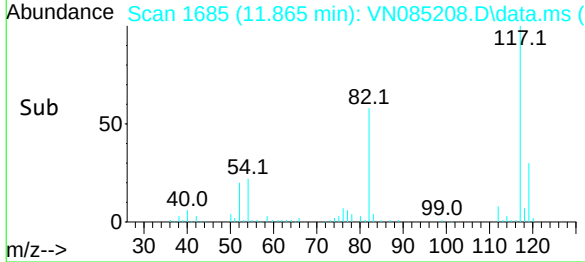
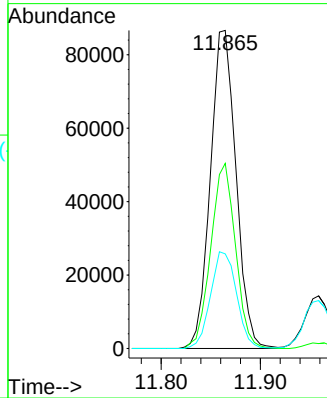
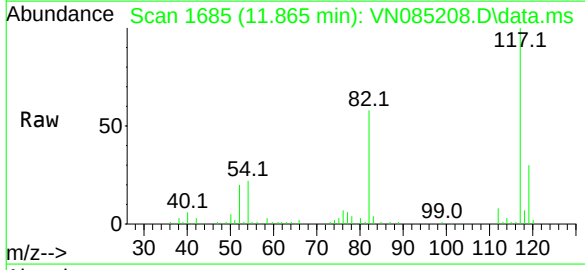
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion:	117	Resp:	155663
Ion	Ratio	Lower	Upper
117	100		
82	56.1	44.2	66.4
119	30.8	25.4	38.2

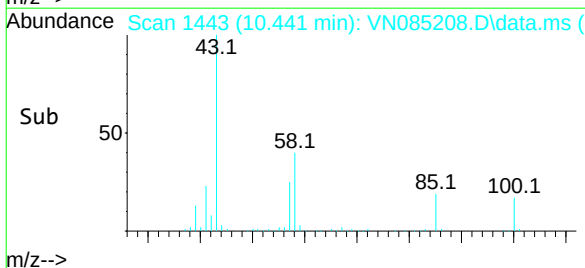
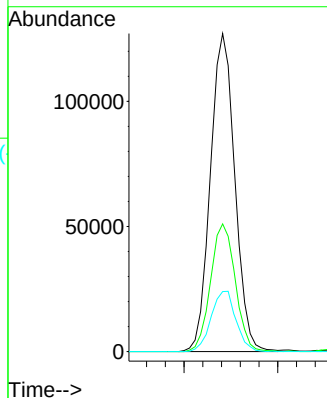
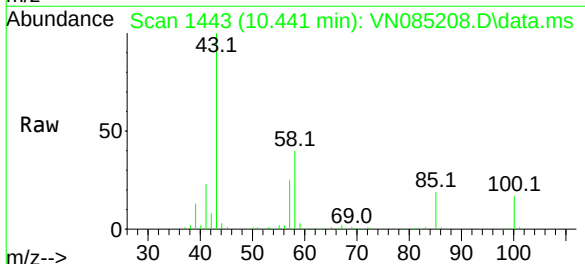
Manual Integrations
APPROVED

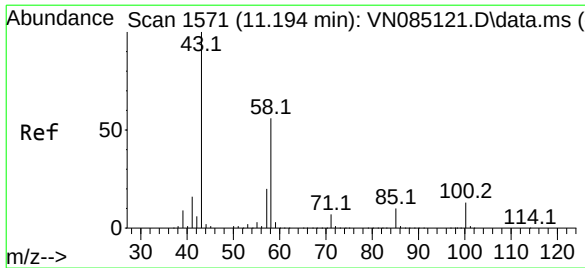
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#58
4-Methyl-2-Pentanone
Concen: 90.751 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

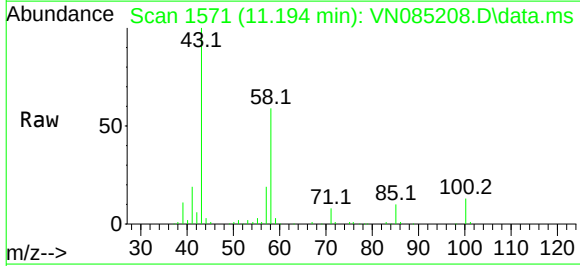
Tgt Ion:	43	Resp:	230551
Ion	Ratio	Lower	Upper
43	100		
58	40.6	31.6	47.4
85	19.2	15.0	22.6





#59
2-Hexanone
Concen: 89.701 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

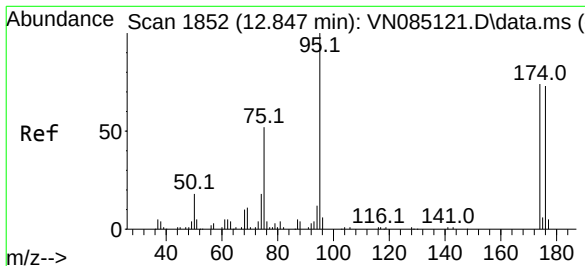
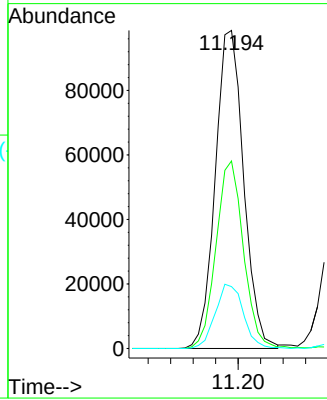
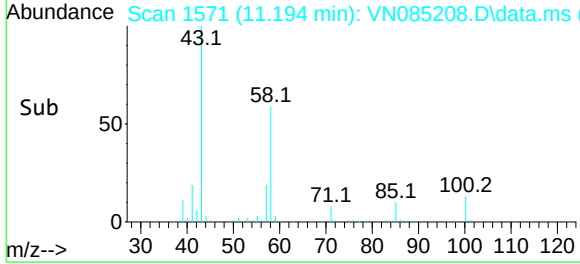
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



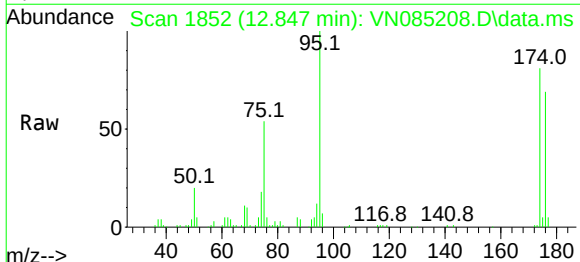
Tgt Ion: 43 Resp: 172668
Ion Ratio Lower Upper
43 100
58 56.9 43.6 65.4
57 20.0 15.4 23.0

Manual Integrations
APPROVED

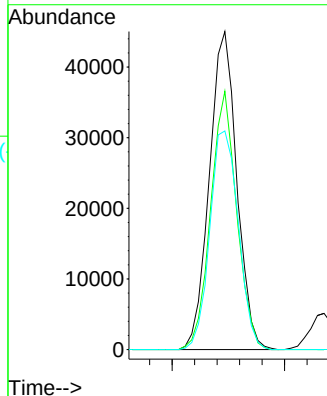
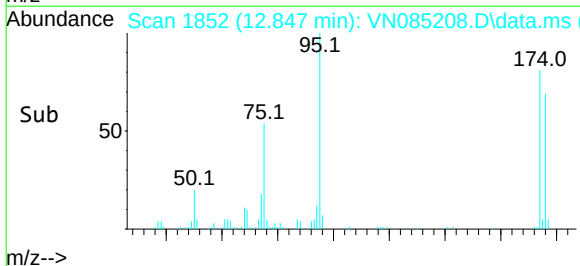
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

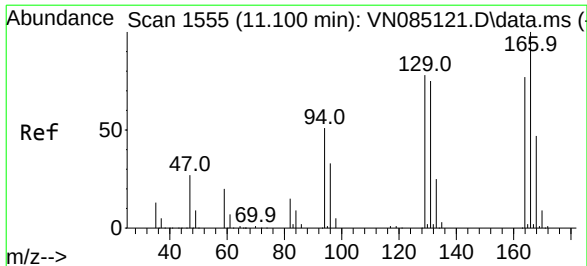


#60
4-Bromofluorobenzene
Concen: 29.655 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19



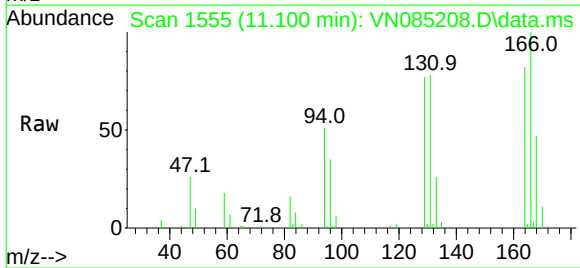
Tgt Ion: 95 Resp: 76379
Ion Ratio Lower Upper
95 100
174 77.0 60.3 90.5
176 71.5 57.4 86.0





#61
Tetrachloroethene
Concen: 19.138 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

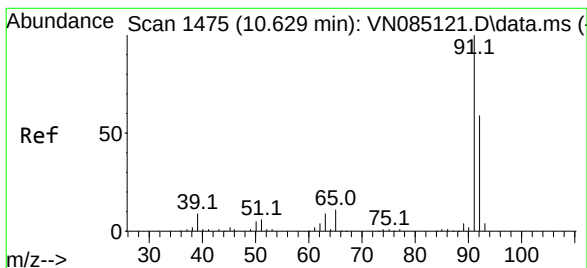
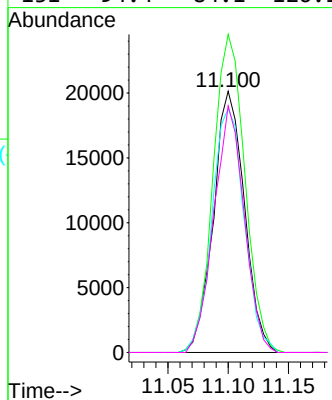
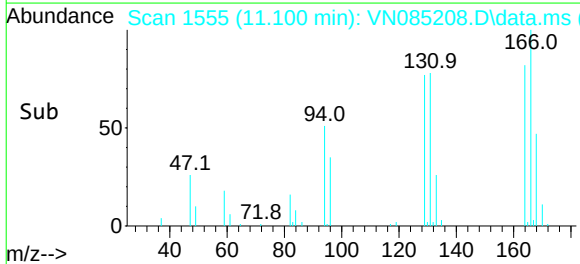
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 164 Resp: 36077
Ion Ratio Lower Upper
164 100
166 121.7 103.8 155.8
129 93.2 84.2 126.4
131 94.4 84.1 126.1

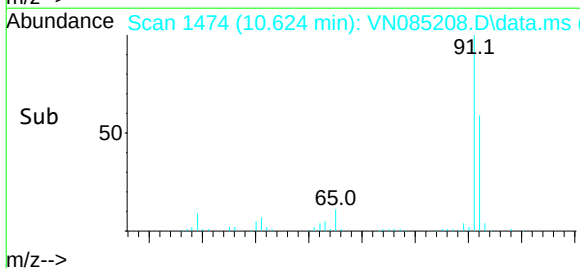
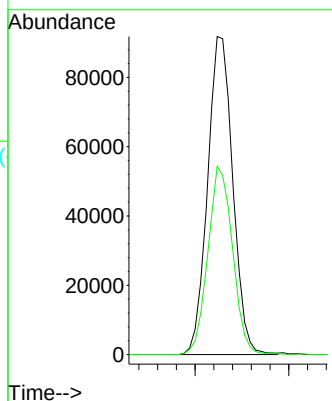
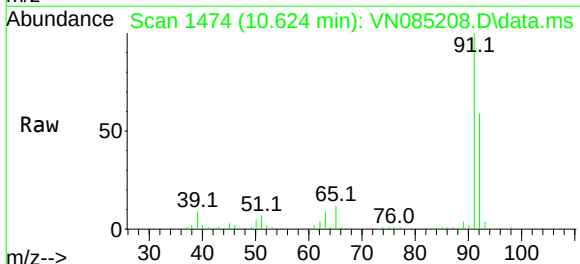
Manual Integrations
APPROVED

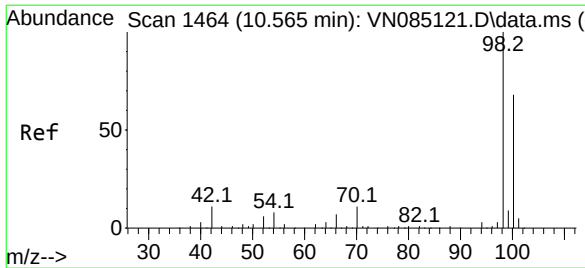
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#62
Toluene
Concen: 18.900 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 91 Resp: 171579
Ion Ratio Lower Upper
91 100
92 58.1 46.5 69.7





#63

Toluene-d8

Concen: 29.671 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

Tgt Ion: 98 Resp: 216652

Ion Ratio Lower Upper

98 100

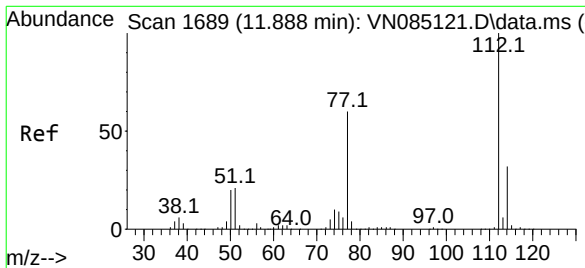
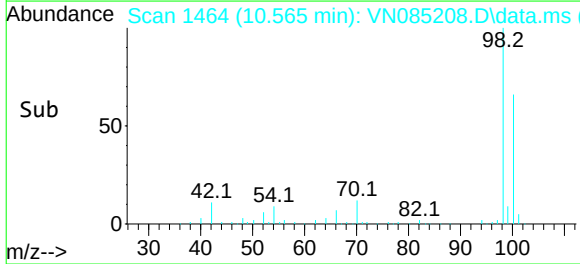
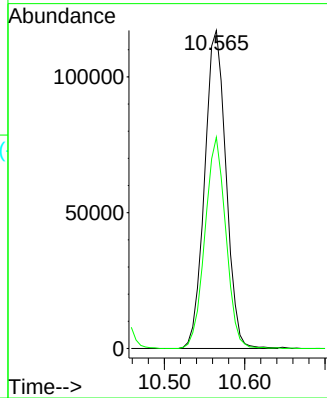
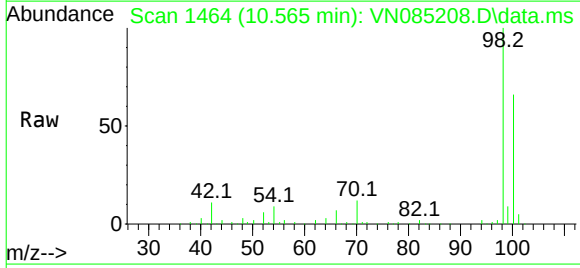
100 64.8 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#64

Chlorobenzene

Concen: 18.744 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085208.D

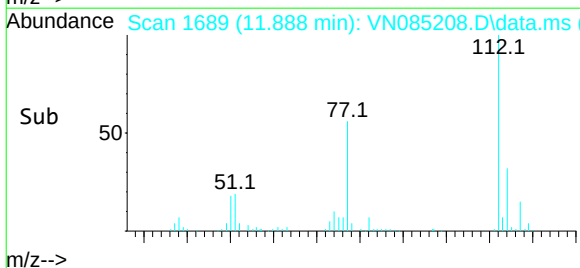
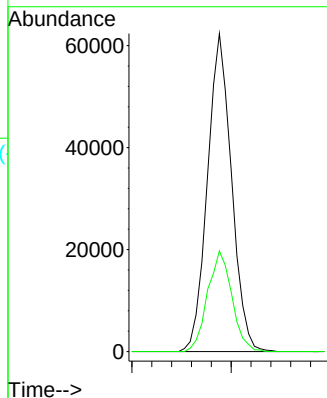
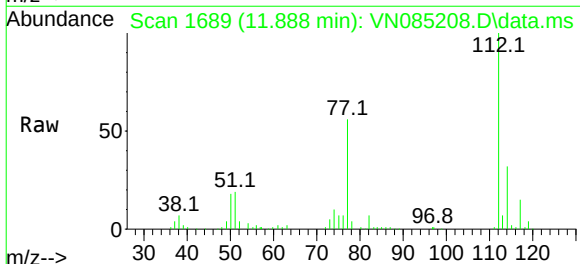
Acq: 16 Dec 2024 10:19

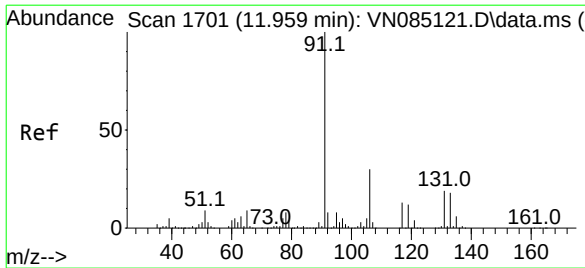
Tgt Ion:112 Resp: 105060

Ion Ratio Lower Upper

112 100

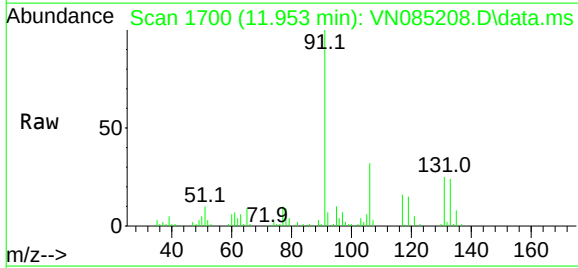
114 31.7 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 18.556 ug/l
RT: 11.953 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

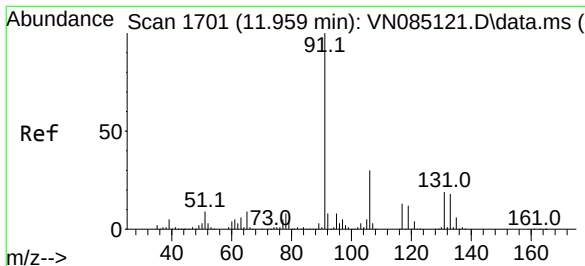
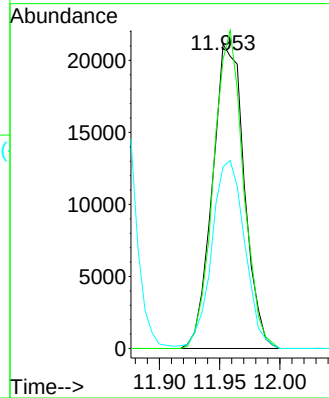
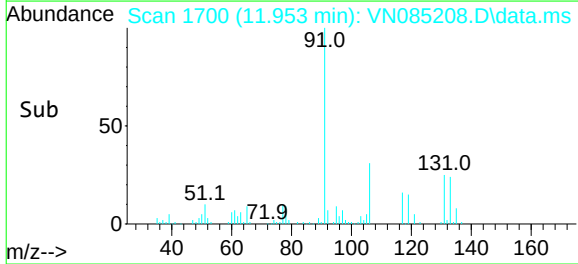
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 131 Resp: 38827
Ion Ratio Lower Upper
131 100
133 98.0 0.0 194.0
119 63.7 0.0 131.8

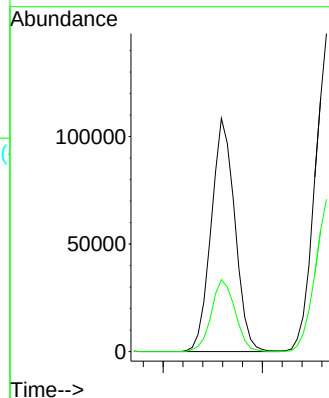
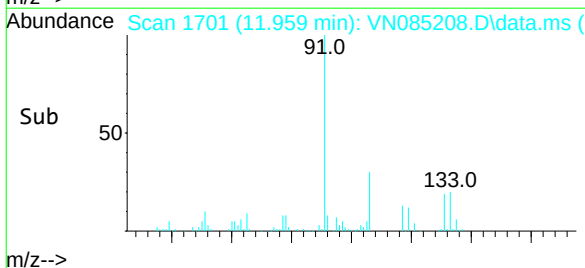
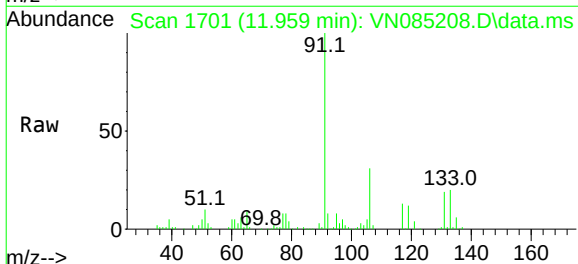
Manual Integrations
APPROVED

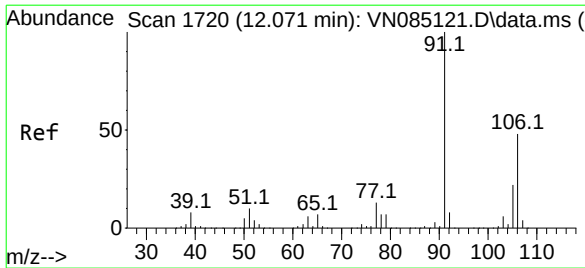
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#66
Ethyl Benzene
Concen: 18.698 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 91 Resp: 180124
Ion Ratio Lower Upper
91 100
106 30.8 23.1 34.7





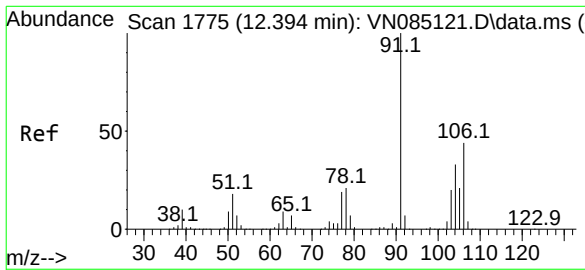
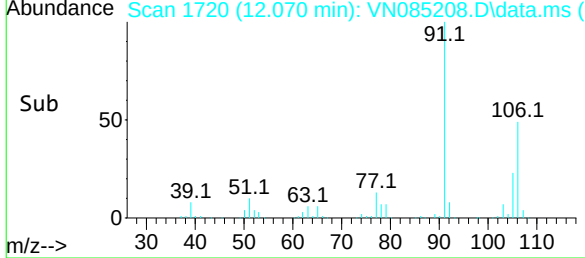
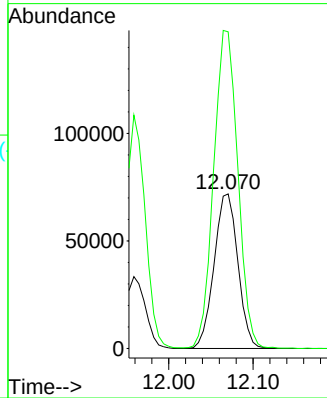
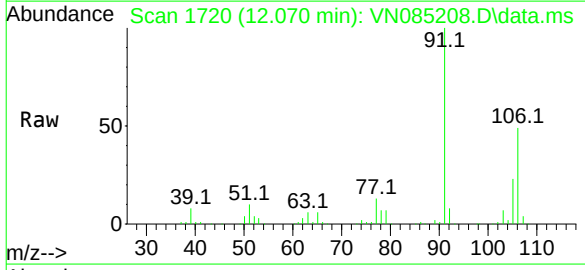
#67
m/p-Xylenes
Concen: 38.037 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion:106 Resp: 140933
Ion Ratio Lower Upper
106 100
91 208.6 165.0 247.4

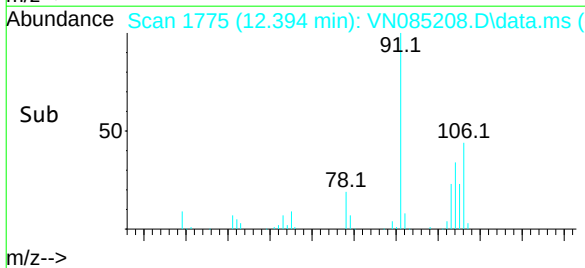
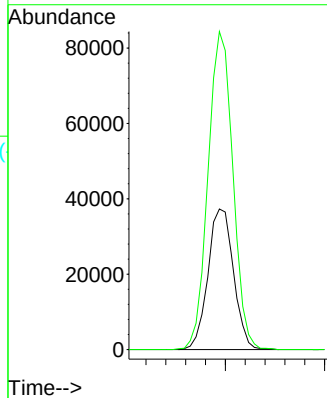
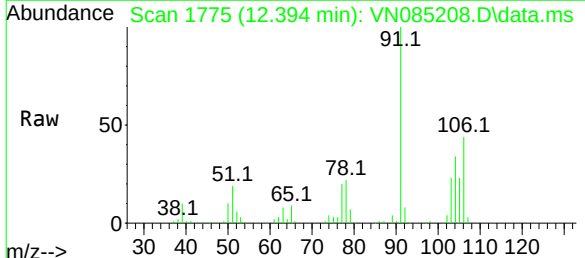
Manual Integrations
APPROVED

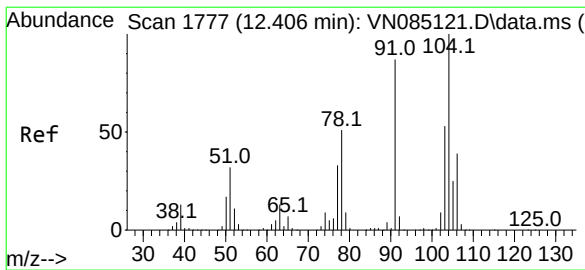
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#68
o-Xylene
Concen: 19.229 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:106 Resp: 66910
Ion Ratio Lower Upper
106 100
91 219.0 112.1 336.4





#69

Styrene

Concen: 18.651 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

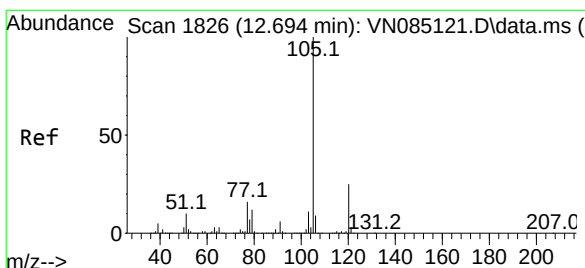
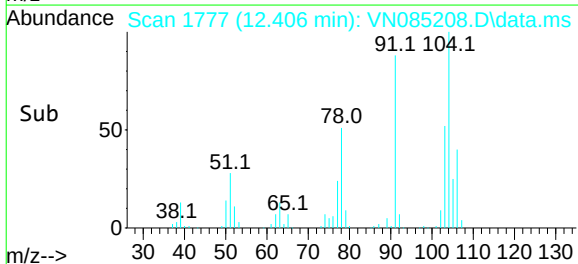
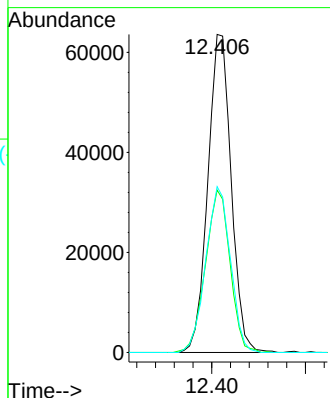
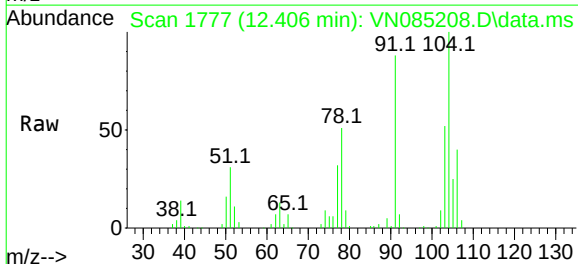
Tgt	Ion:104	Resp:	110123
Ion	Ratio	Lower	Upper
104	100		
78	53.6	42.3	63.5
103	55.0	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#70

Isopropylbenzene

Concen: 19.264 ug/l

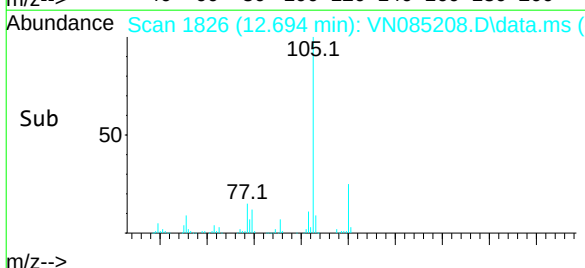
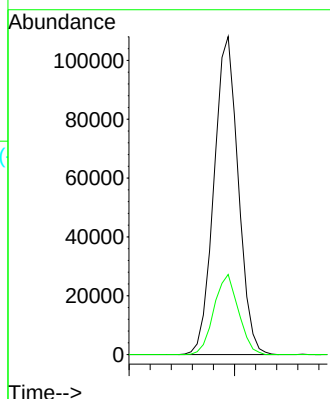
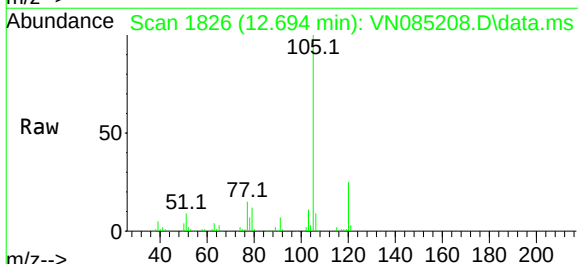
RT: 12.694 min Scan# 1826

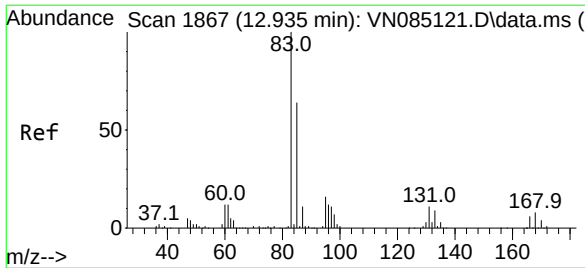
Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Tgt	Ion:105	Resp:	172891
Ion	Ratio	Lower	Upper
105	100		
120	25.4	18.3	33.9





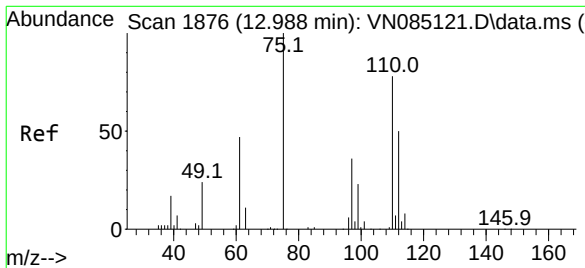
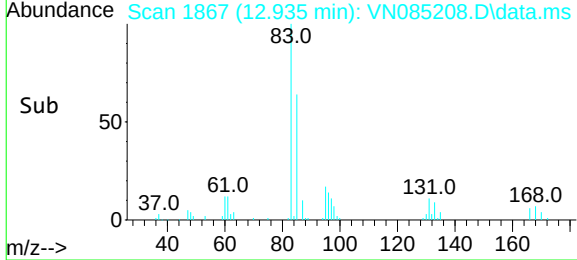
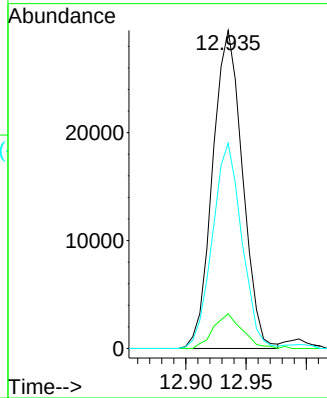
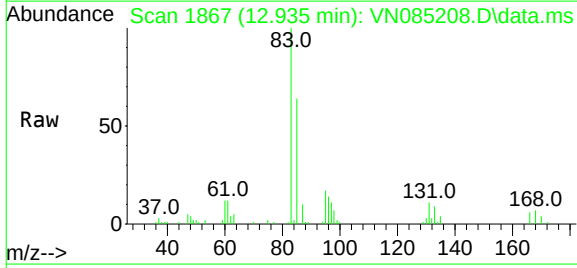
#71
1,1,2,2-Tetrachloroethane
Concen: 18.592 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion: 83	Resp: 50789
Ion Ratio	Lower Upper
83 100	
131 10.6	5.1 15.3
85 63.5	31.1 93.5

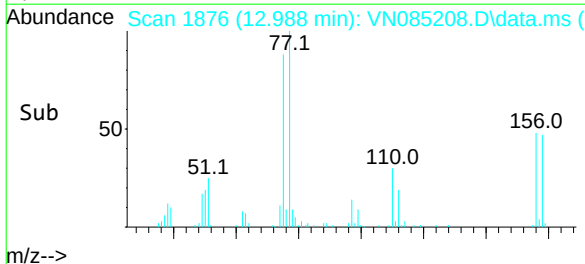
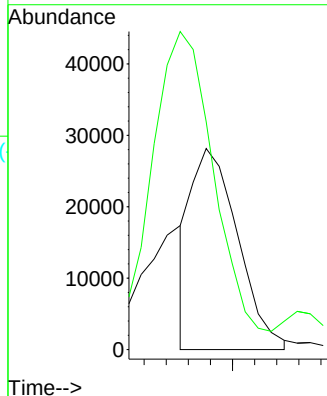
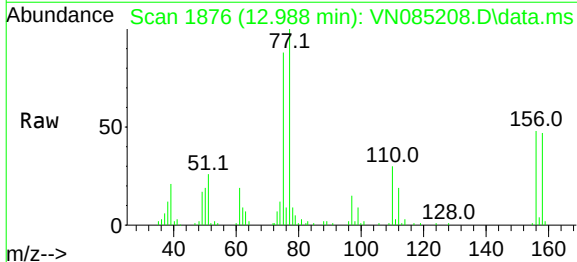
Manual Integrations
APPROVED

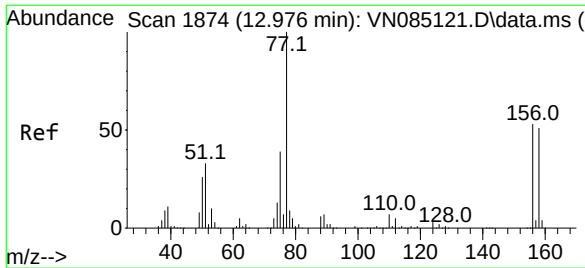
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#72
1,2,3-Trichloropropane
Concen: 15.293 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

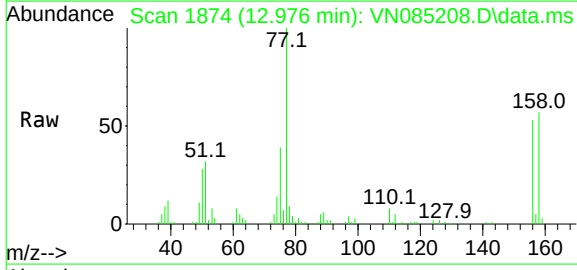
Tgt Ion: 75	Resp: 41267
Ion Ratio	Lower Upper
75 100	
77 217.3	0.0 339.0





Bromobenzene
 Concen: 18.670 ug/l
 RT: 12.976 min Scan# 1874
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

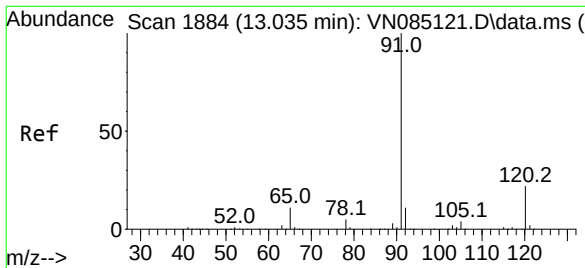
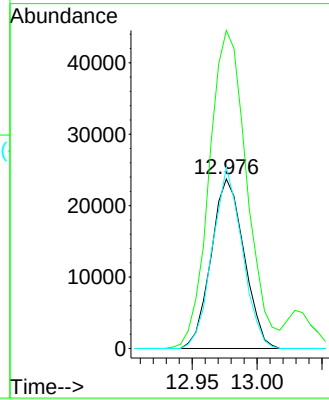
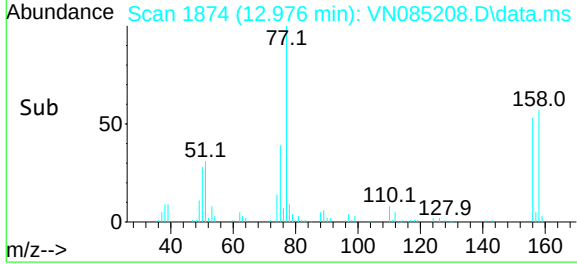
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01



Tgt Ion: 156 Resp: 41970
 Ion Ratio Lower Upper
 156 100
 77 213.6 0.0 430.4
 158 96.9 0.0 195.2

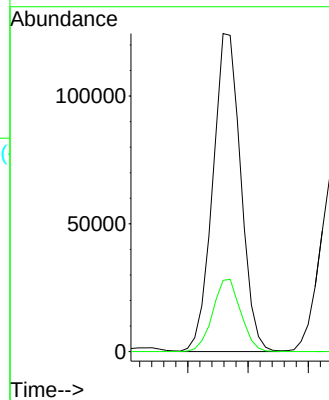
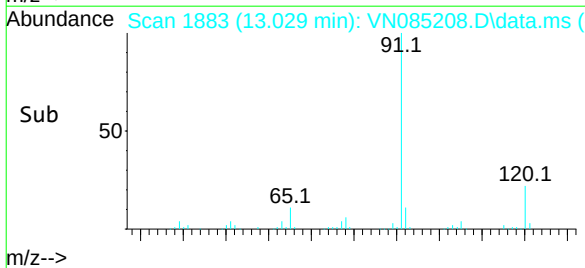
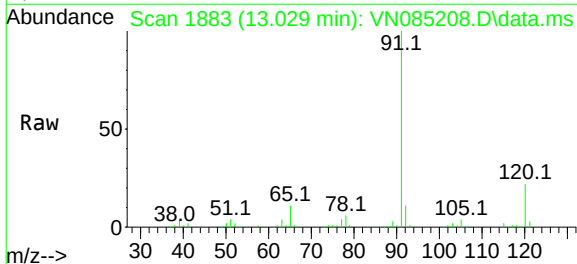
Manual Integrations
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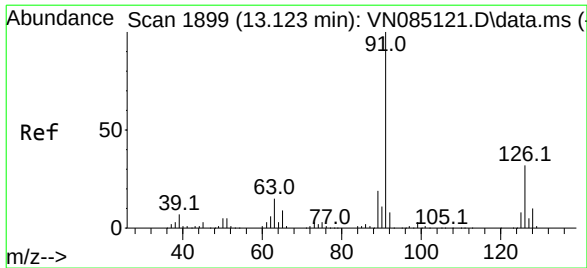
Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024



n-propylbenzene
 Concen: 18.628 ug/l
 RT: 13.029 min Scan# 1883
 Delta R.T. -0.006 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Tgt Ion: 91 Resp: 200993
 Ion Ratio Lower Upper
 91 100
 120 22.7 0.0 44.0





#75

2-Chlorotoluene

Concen: 18.991 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

Tgt Ion: 91 Resp: 126691

Ion Ratio Lower Upper

91 100

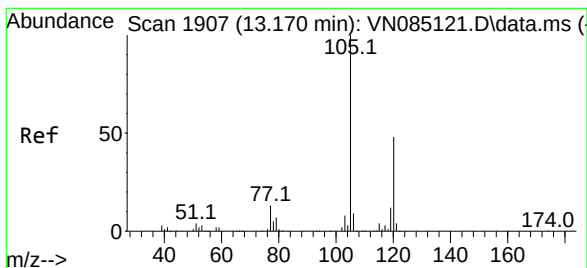
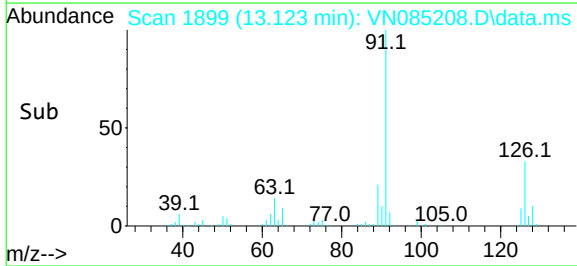
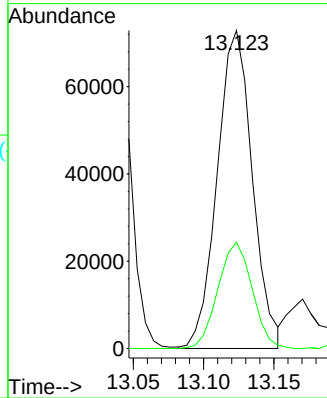
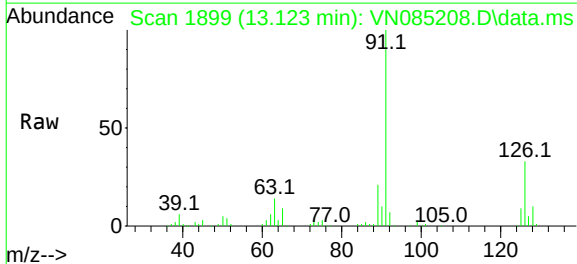
126 32.4 0.0 64.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#76

1,3,5-Trimethylbenzene

Concen: 19.344 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085208.D

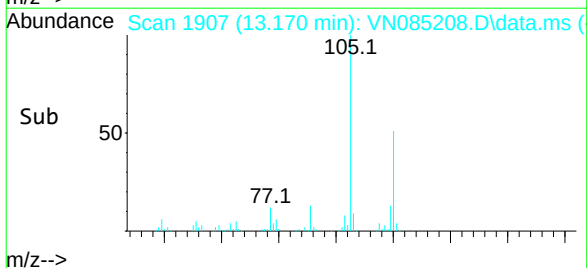
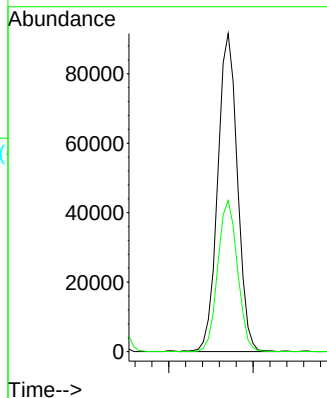
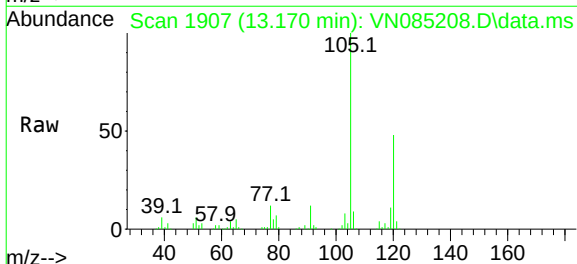
Acq: 16 Dec 2024 10:19

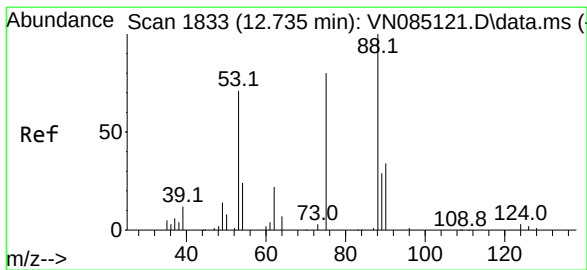
Tgt Ion:105 Resp: 148740

Ion Ratio Lower Upper

105 100

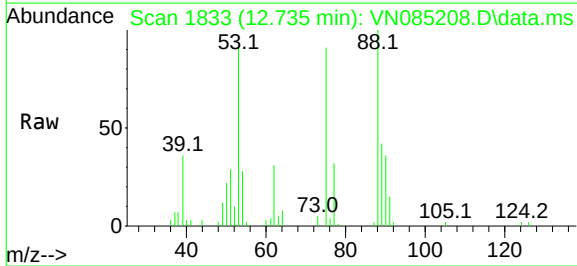
120 47.5 0.0 94.4





#77
t-1,4-Dichloro-2-butene
Concen: 18.768 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

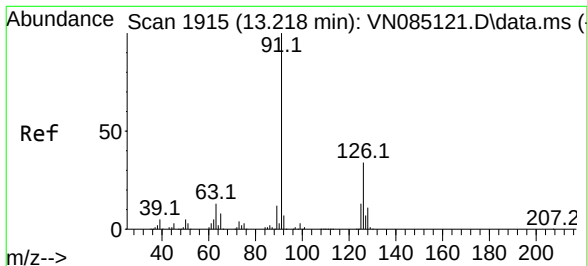
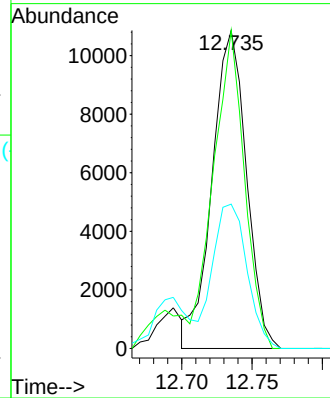
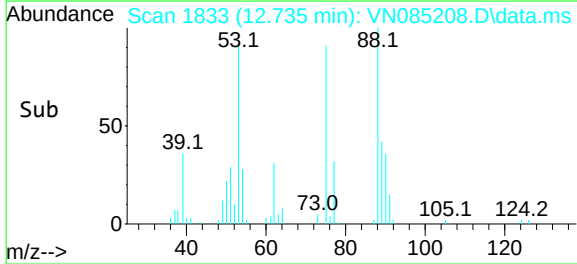
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion: 75 Resp: 18403
Ion Ratio Lower Upper
75 100
53 100.1 49.1 147.3
89 45.4 22.9 68.5

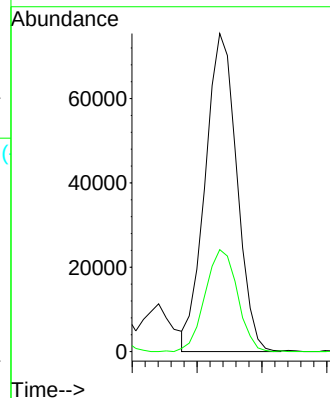
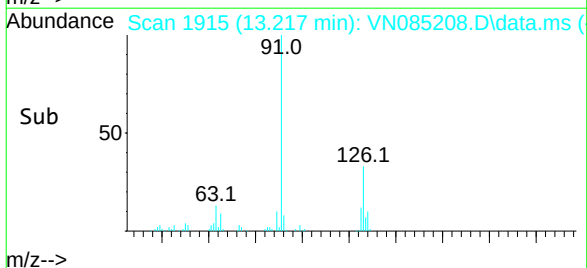
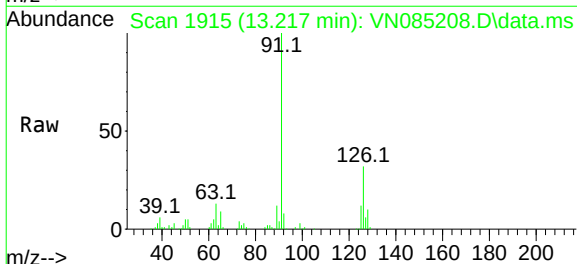
Manual Integrations
APPROVED

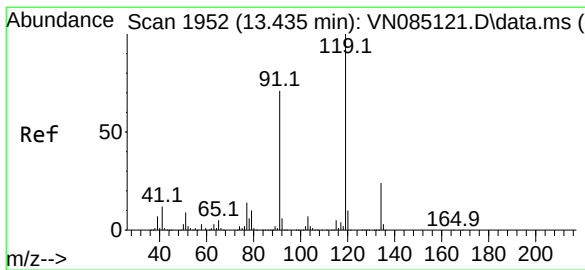
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#78
4-Chlorotoluene
Concen: 18.901 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

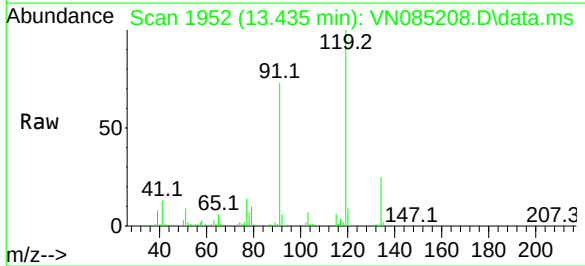
Tgt Ion: 91 Resp: 127983
Ion Ratio Lower Upper
91 100
126 32.6 0.0 64.4





#79
tert-butylbenzene
Concen: 18.902 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

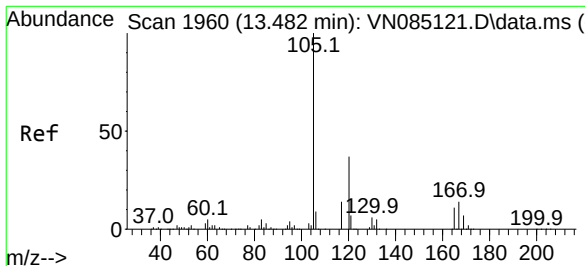
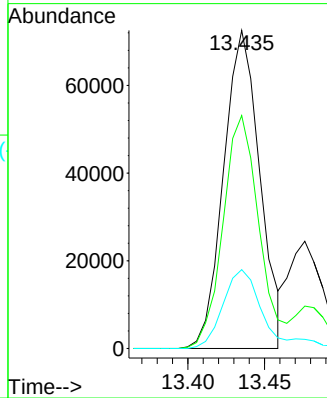
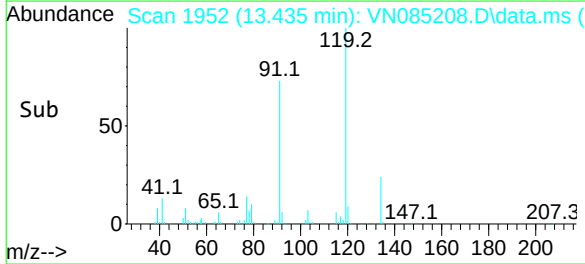
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01



Tgt Ion:119 Resp: 119374
Ion Ratio Lower Upper
119 100
91 72.9 0.0 139.2
134 25.4 0.0 48.0

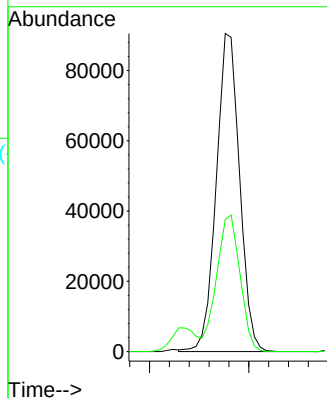
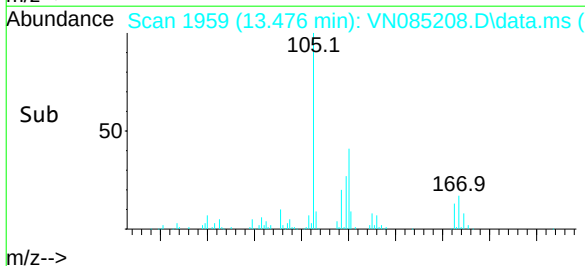
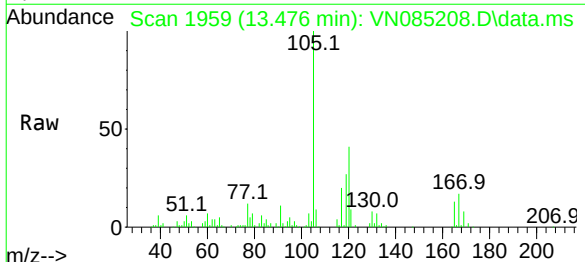
Manual Integrations
APPROVED

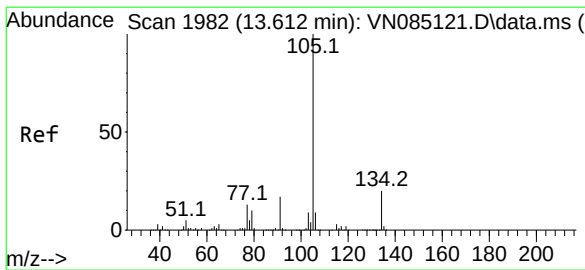
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#80
1,2,4-Trimethylbenzene
Concen: 19.451 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:105 Resp: 147735
Ion Ratio Lower Upper
105 100
120 42.9 0.0 87.4





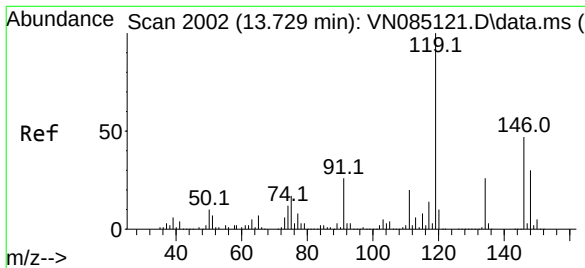
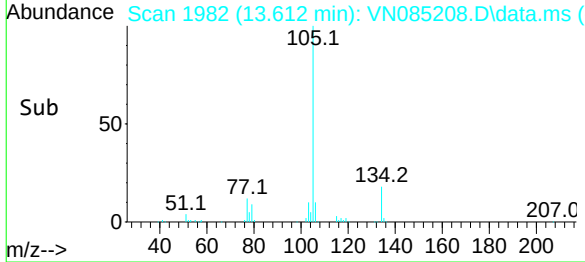
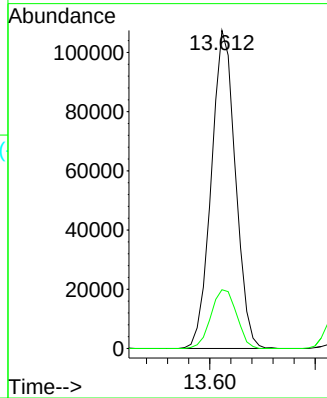
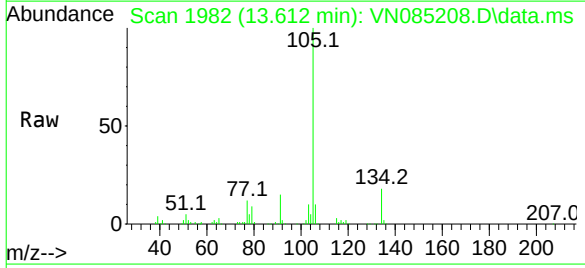
#81
sec-Butylbenzene
Concen: 19.039 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion:105 Resp: 170821
Ion Ratio Lower Upper
105 100
134 19.6 0.0 38.0

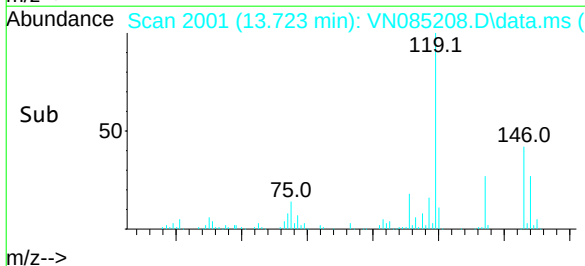
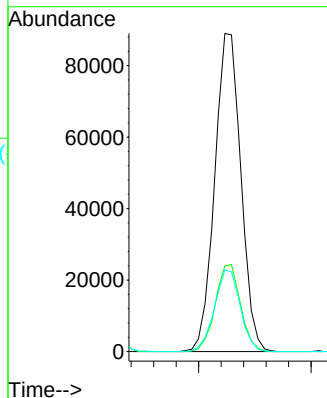
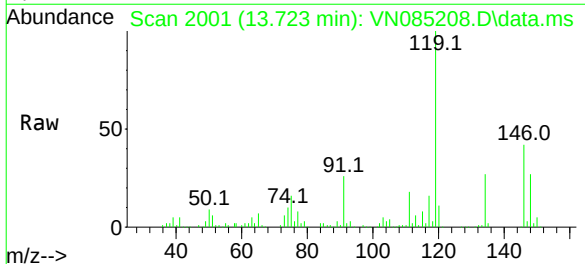
Manual Integrations
APPROVED

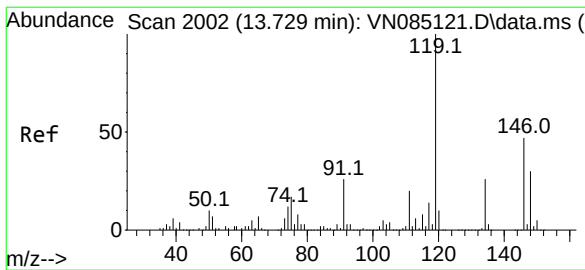
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#82
p-Isopropyltoluene
Concen: 19.331 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:119 Resp: 143795
Ion Ratio Lower Upper
119 100
134 26.3 0.0 51.6
91 25.2 0.0 50.4





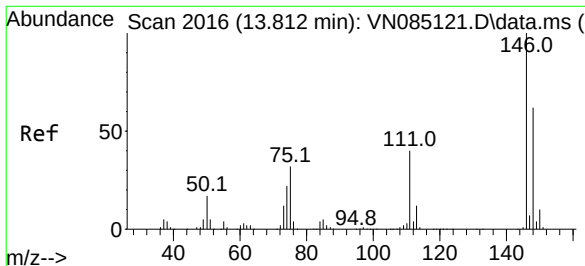
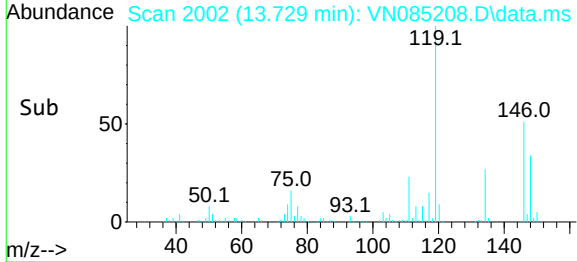
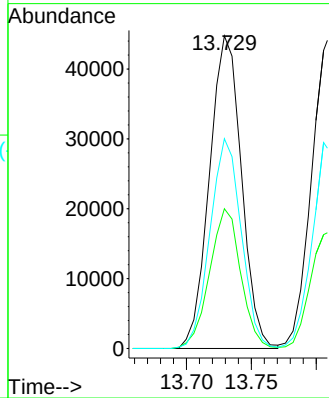
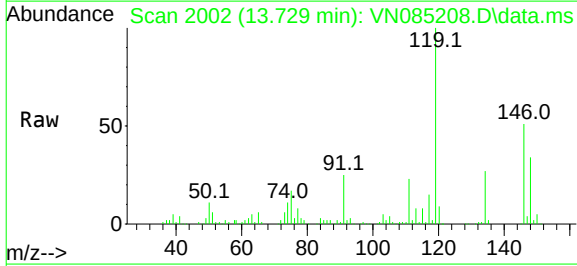
#83
1,3-Dichlorobenzene
Concen: 18.638 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.1	63.3
148	65.5	31.8	95.3

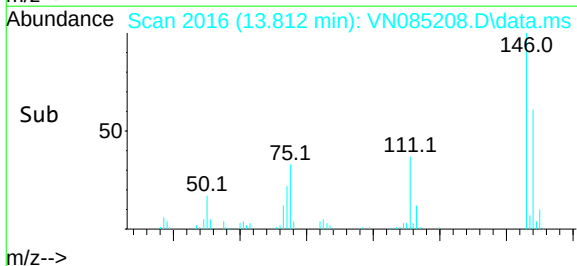
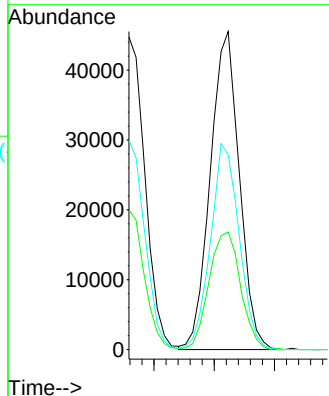
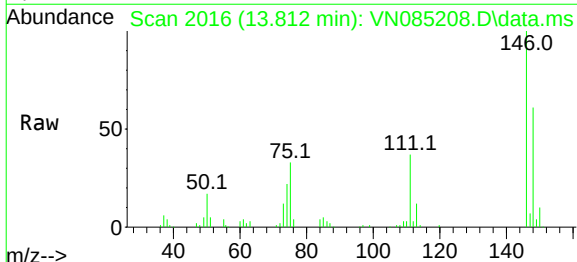
Manual Integrations
APPROVED

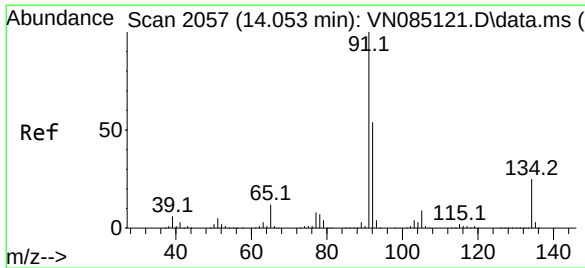
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#84
1,4-Dichlorobenzene
Concen: 19.003 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.1	60.3
148	63.8	31.6	94.7





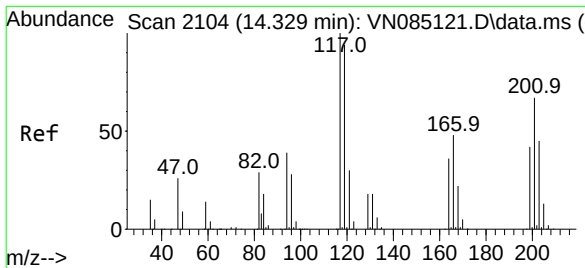
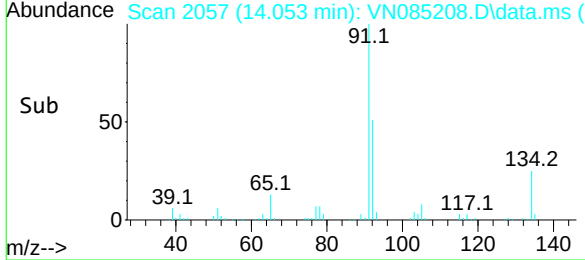
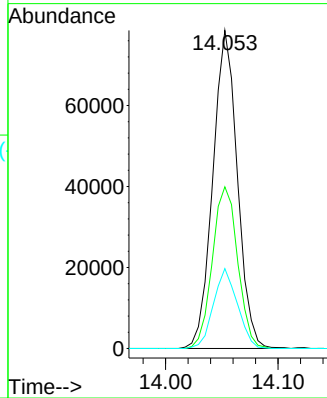
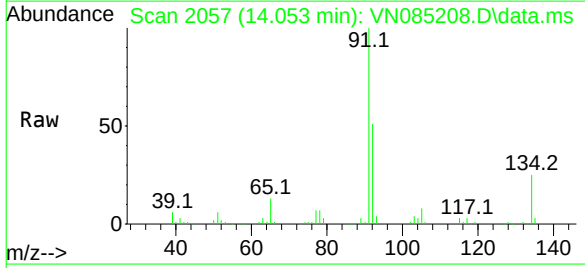
#85
n-Butylbenzene
Concen: 19.083 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion: 91 Resp: 119073
Ion Ratio Lower Upper
91 100
92 52.4 0.0 104.0
134 24.5 0.0 49.2

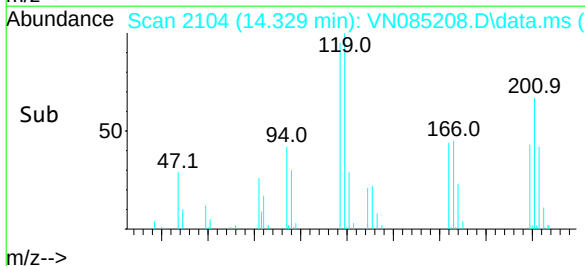
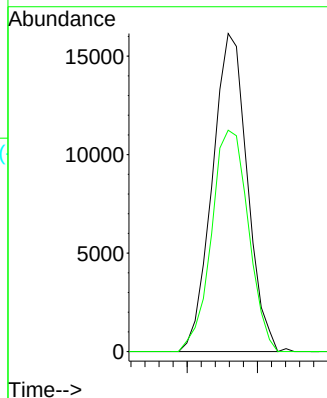
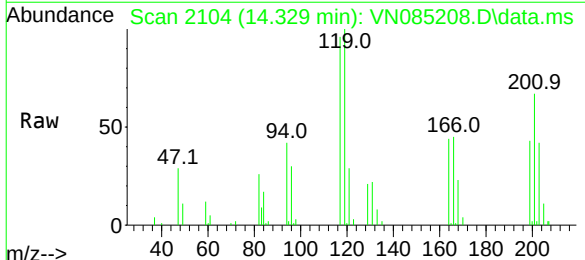
Manual Integrations
APPROVED

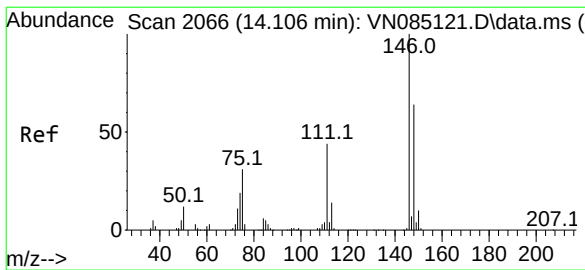
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#86
Hexachloroethane
Concen: 18.824 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:117 Resp: 27875
Ion Ratio Lower Upper
117 100
201 73.5 34.1 102.3





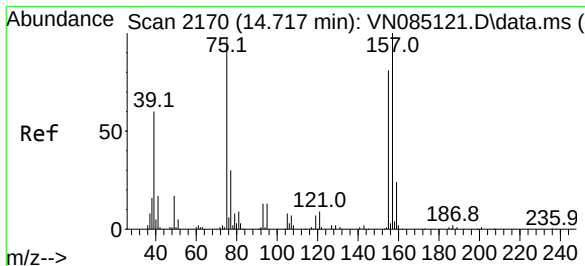
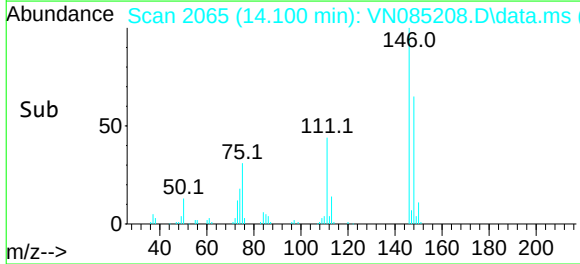
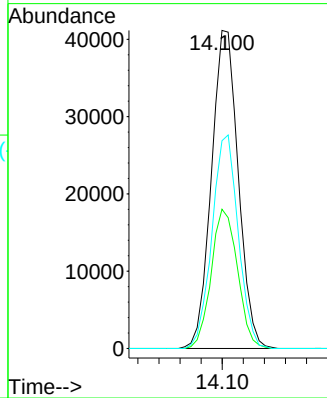
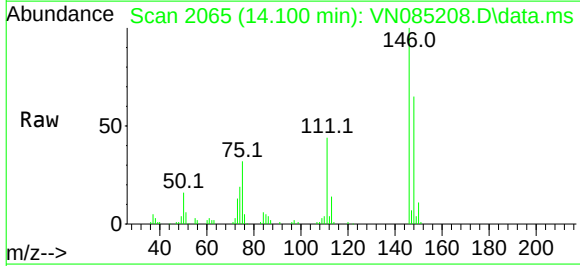
#87
1,2-Dichlorobenzene
Concen: 18.718 ug/l
RT: 14.100 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion:	146	Resp:	72871
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.9	65.7
148	65.6	32.4	97.0

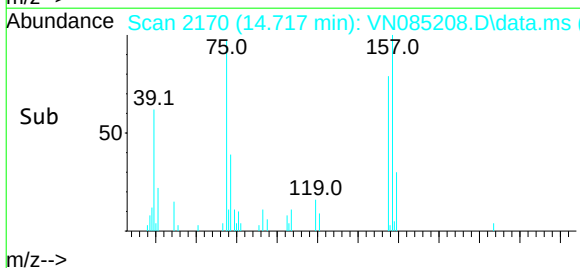
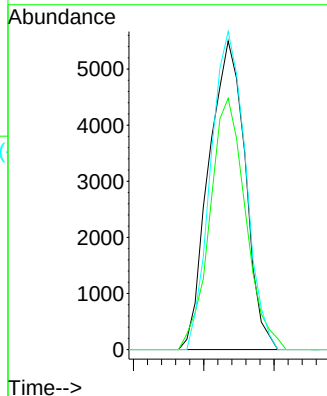
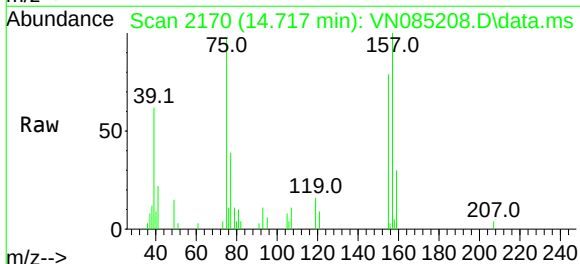
Manual Integrations
APPROVED

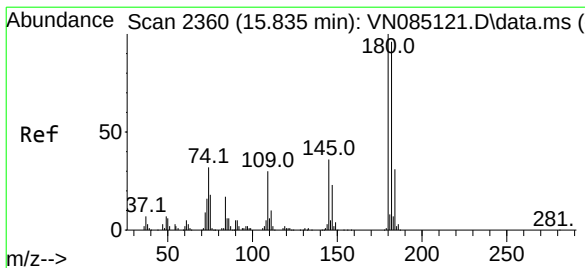
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 18.139 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:	75	Resp:	9899
Ion	Ratio	Lower	Upper
75	100		
155	79.8	62.1	93.1
157	98.5	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 19.527 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

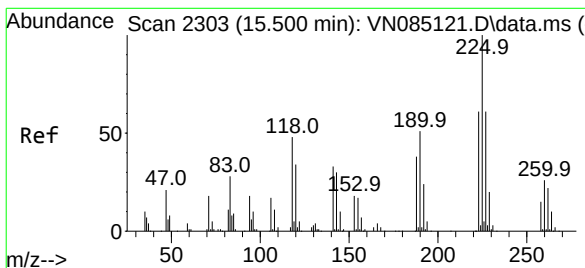
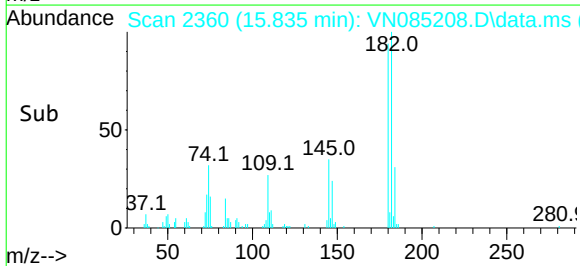
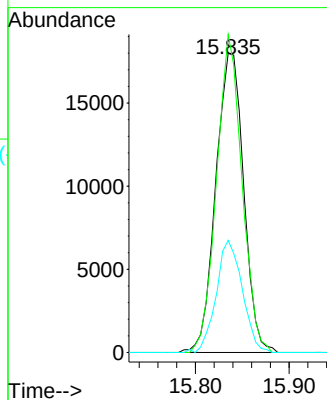
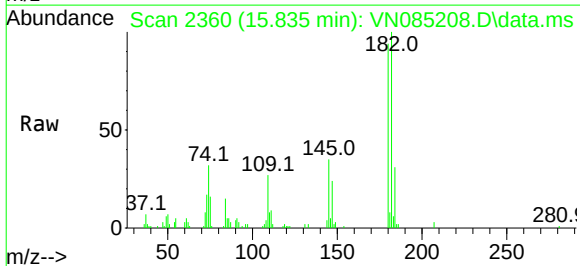
Tgt	Ion:180	Resp:	37230
Ion	Ratio	Lower	Upper
180	100		
182	96.8	74.0	111.0
145	34.8	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#90

Hexachlorobutadiene

Concen: 20.308 ug/l

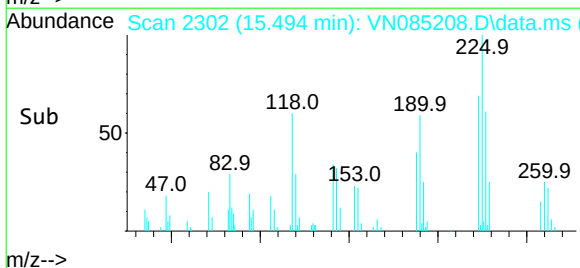
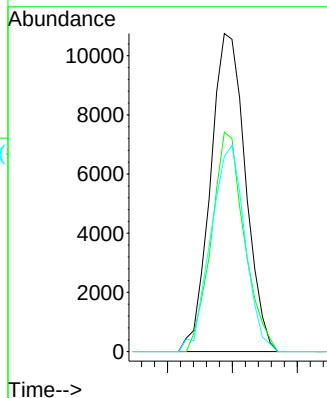
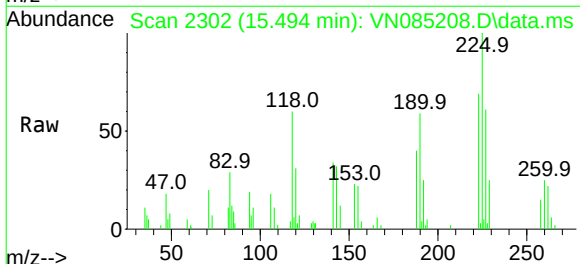
RT: 15.494 min Scan# 2302

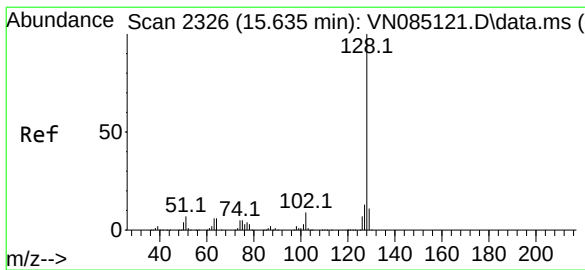
Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Tgt	Ion:225	Resp:	20120
Ion	Ratio	Lower	Upper
225	100		
223	64.7	0.0	121.8
227	63.1	0.0	126.8





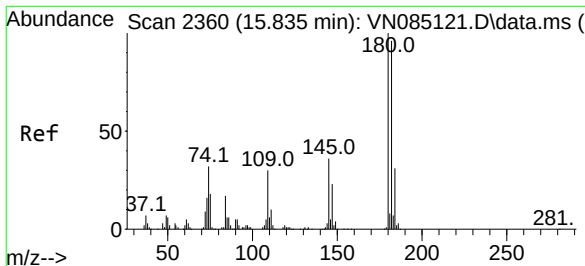
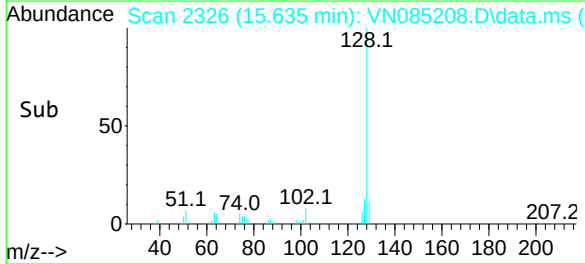
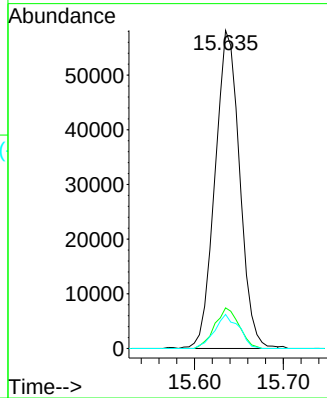
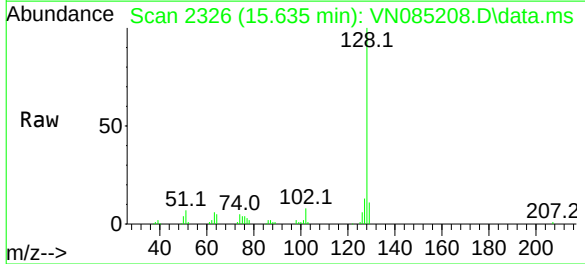
#91
Naphthalene
Concen: 18.930 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion:128 Resp: 112126
Ion Ratio Lower Upper
128 100
127 12.6 11.0 16.4
129 10.6 8.7 13.1

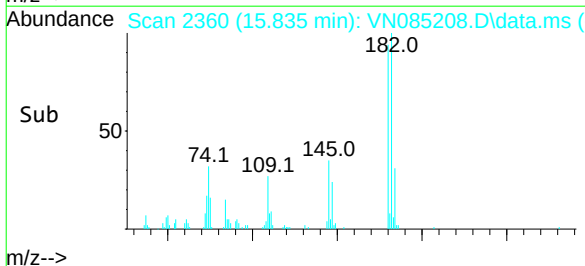
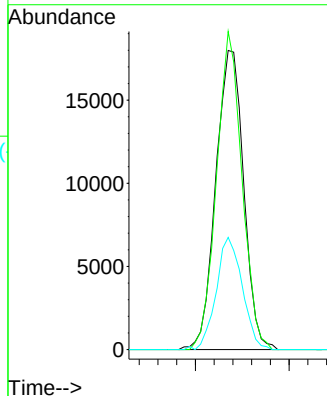
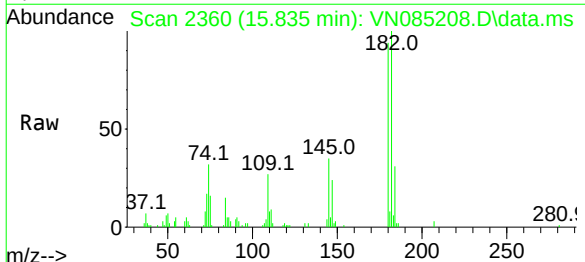
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#92
1,2,3-Trichlorobenzene
Concen: 19.527 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:180 Resp: 37230
Ion Ratio Lower Upper
180 100
182 96.8 0.0 185.0
145 34.8 0.0 71.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBSD01		SDG No.:	P5283
Lab Sample ID:	VN1216WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085209.D	1		12/16/24 10:57	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.20	5.00	ug/L
74-87-3	Chloromethane	19.1		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	20.9		1.20	5.00	ug/L
74-83-9	Bromomethane	20.0		1.40	5.00	ug/L
75-00-3	Chloroethane	21.2		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	20.6		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.9		1.10	5.00	ug/L
107-02-8	Acrolein	110		9.30	25.0	ug/L
107-13-1	Acrylonitrile	100		3.70	25.0	ug/L
67-64-1	Acetone	120		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	19.4		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	21.4		0.83	5.00	ug/L
79-20-9	Methyl Acetate	21.8		1.20	5.00	ug/L
75-09-2	Methylene Chloride	20.0		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.4		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	20.3		0.81	5.00	ug/L
110-82-7	Cyclohexane	19.6		1.00	5.00	ug/L
78-93-3	2-Butanone	110		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	19.7		1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.6		0.90	5.00	ug/L
67-66-3	Chloroform	20.2		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	19.0		0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	19.7		0.75	5.00	ug/L
71-43-2	Benzene	19.5		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.75	5.00	ug/L
79-01-6	Trichloroethene	19.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.2		0.65	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBSD01		SDG No.:	P5283
Lab Sample ID:	VN1216WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085209.D	1		12/16/24 10:57	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	20.0		0.70	5.00	ug/L
75-27-4	Bromodichloromethane	20.0		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		4.20	25.0	ug/L
108-88-3	Toluene	19.5		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.9		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.8		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.2		0.68	5.00	ug/L
591-78-6	2-Hexanone	100		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	19.8		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	19.7		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	19.8		0.94	5.00	ug/L
108-90-7	Chlorobenzene	19.7		0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20.6		0.91	5.00	ug/L
67-72-1	Hexachloroethane	19.6		0.91	5.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	39.6		1.70	10.0	ug/L
95-47-6	o-Xylene	20.3		0.82	5.00	ug/L
100-42-5	Styrene	20.1		0.80	5.00	ug/L
75-25-2	Bromoform	19.8		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	16.7		1.70	5.00	ug/L
108-86-1	Bromobenzene	20.1		0.69	5.00	ug/L
103-65-1	n-propylbenzene	19.2		0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	19.9		0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.6		0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	19.5		0.82	5.00	ug/L
98-06-6	tert-butylbenzene	19.8		0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.1		0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	19.8		0.77	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1216WBSD01		SDG No.:	P5283
Lab Sample ID:	VN1216WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085209.D	1		12/16/24 10:57	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	19.8		0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.95	5.00	ug/L
104-51-8	n-Butylbenzene	19.3		0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.2		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.6		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.6		1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	20.6		1.10	5.00	ug/L
91-20-3	Naphthalene	20.6		1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		1.40	5.00	ug/L
74-88-4	Methyl Iodide	18.3		0.94	5.00	ug/L
80-62-6	Methyl methacrylate	19.9		1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.4		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.0		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.0		63 - 112	100%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29900	7.812			
540-36-3	1,4-Difluorobenzene	162000	9.1			
3114-55-4	Chlorobenzene-d5	149000	11.865			

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_N\Data\VN121624\
 Data File : VN085209.D
 Acq On : 16 Dec 2024 10:57
 Operator : JC\MD
 Sample : VN1216WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024

Quant Time: Dec 16 12:21:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29855	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	161867	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	148673	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72034	30.408	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.367%			
60) 4-Bromofluorobenzene	12.847	95	73852	30.022	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.067%			
63) Toluene-d8	10.565	98	202306	29.009	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.700%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	48095	20.136	ug/l	96
3) Chloromethane	2.359	50	40344	19.083	ug/l	92
4) Vinyl Chloride	2.512	62	45267	20.934	ug/l	96
5) Bromomethane	2.965	94	27446	19.991	ug/l	99
6) Chloroethane	3.118	64	28186	21.216	ug/l	95
7) Trichlorofluoromethane	3.501	101	72820	20.573	ug/l	97
8) Diethyl Ether	3.959	74	23793	21.222	ug/l	99
9) 1,1,2-Trichlorotrifluoro...	4.371	101	39414	19.912	ug/l	88
10) 1,1-Dichloroethene	4.342	96	36096	19.853	ug/l	96
11) Methyl Iodide	4.589	142	46064	18.268	ug/l	97
12) Methyl Acetate	5.024	43	46738	21.790	ug/l	96
13) Acrolein	4.177	56	35773	114.765	ug/l	99
14) Acrylonitrile	5.718	53	91712	102.973	ug/l	96
15) Acetone	4.424	58	29139	120.730	ug/l	83
16) Carbon Disulfide	4.712	76	105348	19.385	ug/l	97
17) Allyl chloride	5.024	41	52512	20.184	ug/l	99
18) Methylene Chloride	5.277	84	41210	19.976	ug/l	92
19) trans-1,2-Dichloroethene	5.777	96	36574	19.353	ug/l	92
20) Diisopropyl ether	6.671	45	118990	20.841	ug/l	96
21) 1,1-Dichloroethane	6.565	63	71674	20.339	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	44718	20.587	ug/l	99
23) tert-Butyl Alcohol	5.512	59	35358	110.664	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	121741	21.432	ug/l #	74
25) Chloroform	7.965	83	74641	20.218	ug/l	100
26) Cyclohexane	8.253	56	56899	19.610	ug/l #	93
29) 1,1-Dichloropropene	8.371	75	51348	19.659	ug/l	95
30) 2-Butanone	7.477	43	130125	108.562	ug/l	98
31) 2,2-Dichloropropane	7.483	77	65963	19.694	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	68382	19.342	ug/l	97
33) Carbon Tetrachloride	8.365	117	61882	19.398	ug/l	93
34) Benzene	8.600	78	159828	19.479	ug/l #	97
35) Methacrylonitrile	7.777	41	27030	20.039	ug/l	93
36) 1,2-Dichloroethane	8.665	62	54876	19.646	ug/l	99
37) Trichloroethene	9.347	130	38098	19.498	ug/l	95
38) Methylcyclohexane	9.600	83	53887	18.974	ug/l	96
39) 1,2-Dichloropropane	9.618	63	38165	19.203	ug/l	89
40) Dibromomethane	9.706	93	28463	19.966	ug/l	98
41) Bromodichloromethane	9.888	83	61025	20.024	ug/l	92
42) Vinyl Acetate	6.600	43	445381	106.188	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085209.D
 Acq On : 16 Dec 2024 10:57
 Operator : JC\MD
 Sample : VN1216WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/16/2024
 Supervised By : Mahesh Dadoda 12/17/2024

Quant Time: Dec 16 12:21:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	49449	20.734	ug/l #	92
44) Isopropyl Acetate	8.683	43	85730	20.685	ug/l	97
45) 1,4-Dioxane	9.694	88	14082	407.451	ug/l #	92
46) Methyl methacrylate	9.677	41	37774	19.915	ug/l	93
47) n-amyl Acetate	12.488	43	69551	19.945	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	59485	19.884	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	64591	19.833	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	37876	19.717	ug/l #	93
51) Ethyl methacrylate	10.871	69	59503	20.365	ug/l	90
52) 1,3-Dichloropropane	11.159	76	65044	20.232	ug/l	98
53) Dibromochloromethane	11.359	129	46465	19.848	ug/l	96
54) 1,2-Dibromoethane	11.465	107	38069	19.669	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	157517	116.053	ug/l	100
56) Bromoform	12.576	173	31005	19.753	ug/l #	97
58) 4-Methyl-2-Pentanone	10.441	43	251194	103.526	ug/l	98
59) 2-Hexanone	11.194	43	189877	103.278	ug/l	97
61) Tetrachloroethene	11.100	164	35715	19.837	ug/l	95
62) Toluene	10.630	91	169444	19.542	ug/l	100
64) Chlorobenzene	11.888	112	105294	19.669	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	41250	20.641	ug/l	93
66) Ethyl Benzene	11.959	91	180260	19.592	ug/l	95
67) m/p-Xylenes	12.071	106	139966	39.552	ug/l	99
68) o-Xylene	12.394	106	67500	20.311	ug/l	98
69) Styrene	12.406	104	113349	20.099	ug/l	100
70) Isopropylbenzene	12.694	105	170936	19.942	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	53129	20.363	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	42929m	16.657	ug/l	
73) Bromobenzene	12.976	156	43049	20.050	ug/l	99
74) n-propylbenzene	13.035	91	197415	19.157	ug/l	99
75) 2-Chlorotoluene	13.123	91	126567	19.864	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	143813	19.583	ug/l	98
77) t-1,4-Dichloro-2-butene	12.729	75	19066	20.358	ug/l	92
78) 4-Chlorotoluene	13.218	91	126224	19.518	ug/l	100
79) tert-butylbenzene	13.435	119	119154	19.754	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	145777	20.096	ug/l	99
81) sec-Butylbenzene	13.618	105	169356	19.763	ug/l	98
82) p-Isopropyltoluene	13.723	119	140763	19.813	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	77122	19.578	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	76595	19.952	ug/l	99
85) n-Butylbenzene	14.053	91	114947	19.288	ug/l	99
86) Hexachloroethane	14.335	117	27662	19.558	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	75009	20.174	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11257	21.598	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	37581	20.638	ug/l	96
90) Hexachlorobutadiene	15.500	225	19537	20.647	ug/l	96
91) Naphthalene	15.635	128	116630	20.616	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	37581	20.638	ug/l	96

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

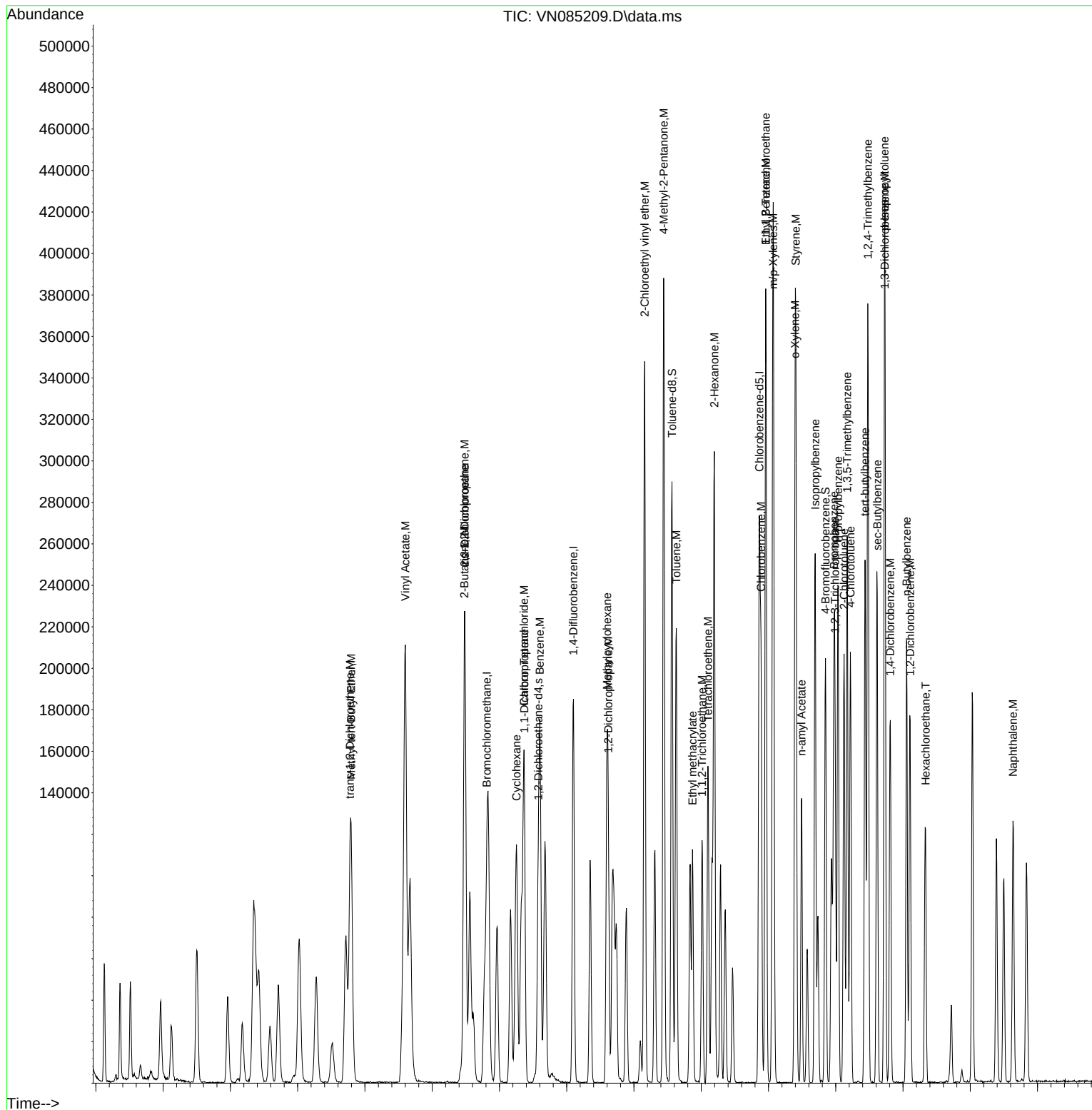
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Acq On : 16 Dec 2024 10:57
Operator : JC\MD
Sample : VN1216WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

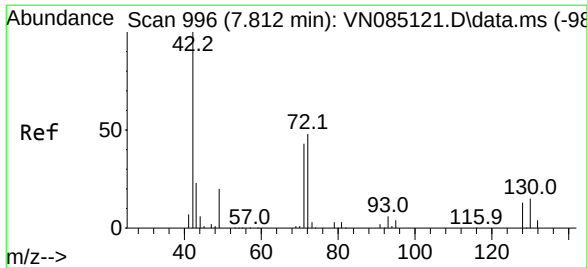
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MSVOA_N
ClientSampleId :
VN1216WBSD01

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024

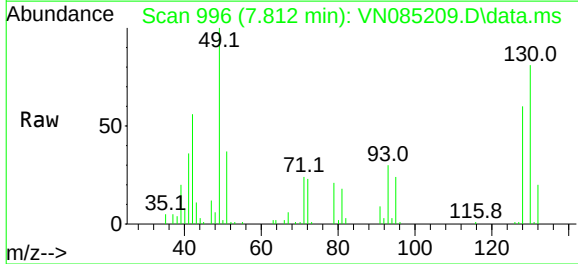
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

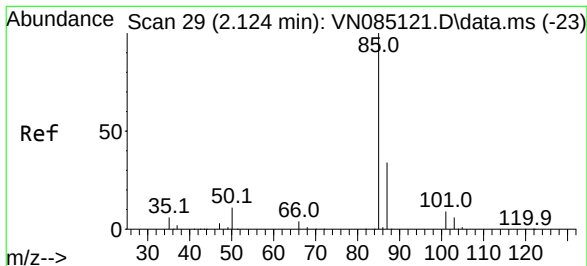
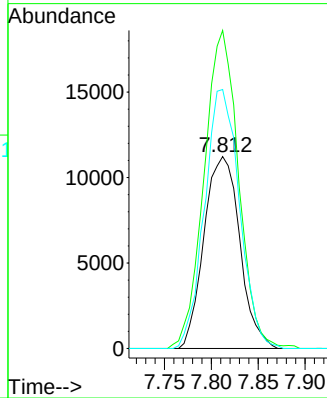
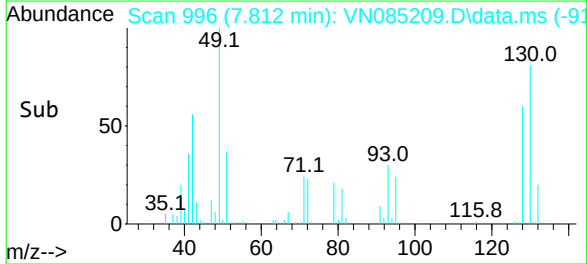
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



Tgt Ion: 128 Resp: 29855
Ion Ratio Lower Upper
128 100
49 158.9 0.0 394.5
130 131.8 0.0 316.5

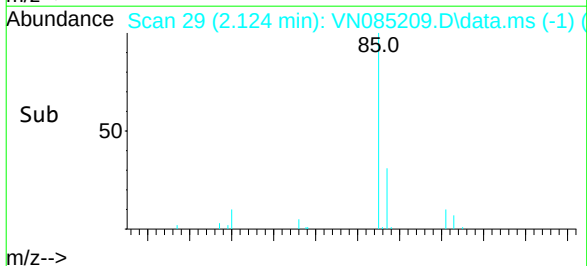
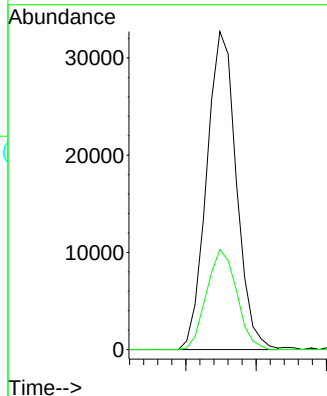
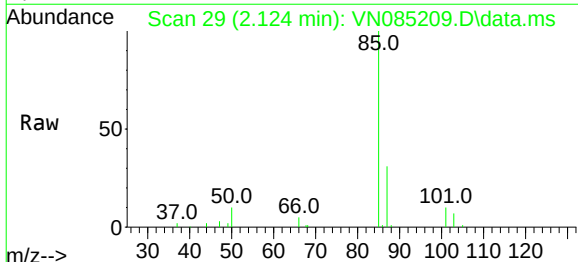
Manual Integrations
APPROVED

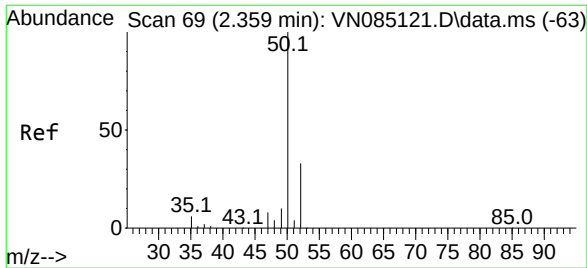
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024



#2
Dichlorodifluoromethane
Concen: 20.136 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

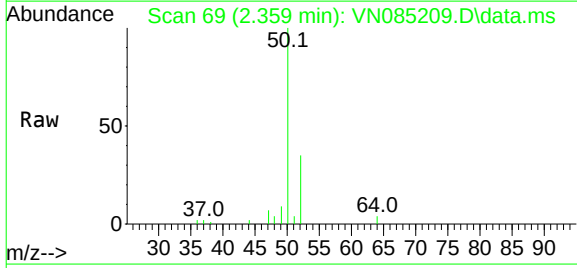
Tgt Ion: 85 Resp: 48095
Ion Ratio Lower Upper
85 100
87 31.5 16.8 50.3





#3
Chloromethane
Concen: 19.083 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

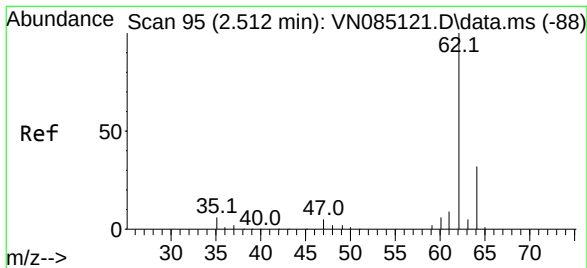
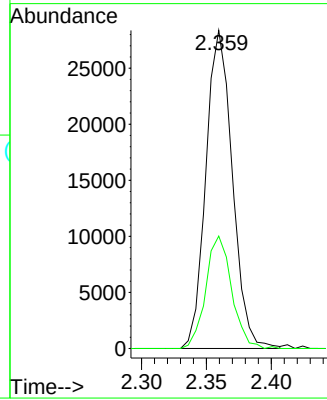
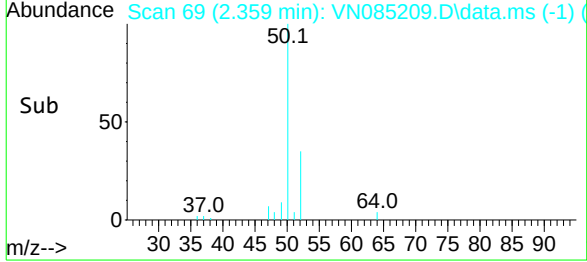
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



Tgt Ion: 50 Resp: 40344
Ion Ratio Lower Upper
50 100
52 35.3 25.0 37.4

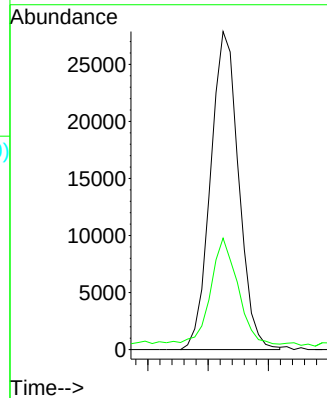
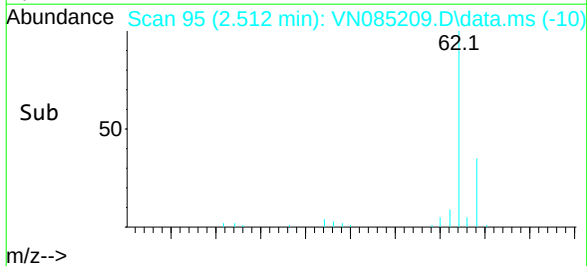
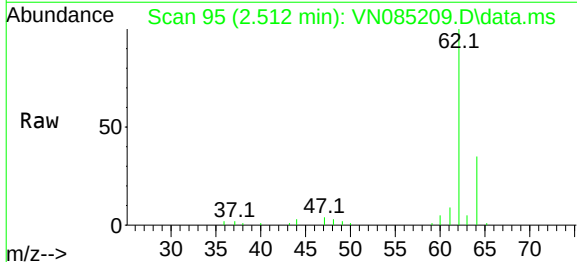
Manual Integrations
APPROVED

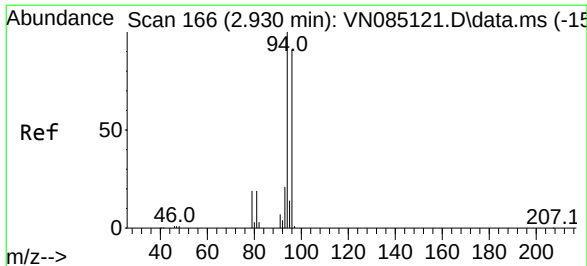
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#4
Vinyl Chloride
Concen: 20.934 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

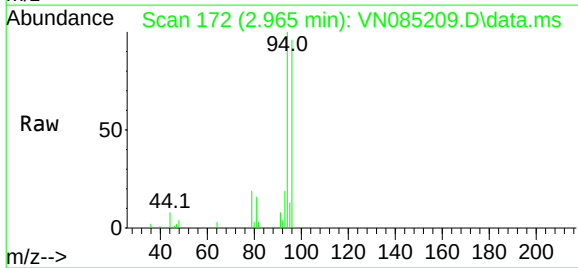
Tgt Ion: 62 Resp: 45267
Ion Ratio Lower Upper
62 100
64 33.3 24.9 37.3





#5
Bromomethane
Concen: 19.991 ug/l
RT: 2.965 min Scan# 171
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

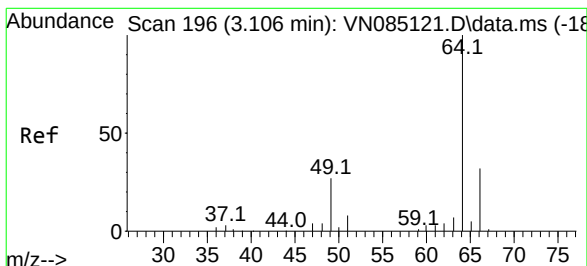
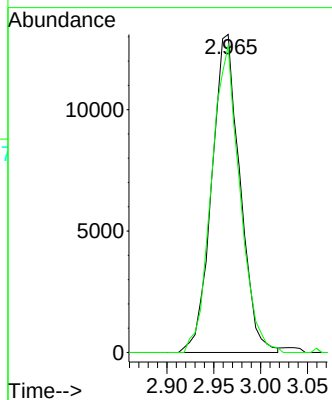
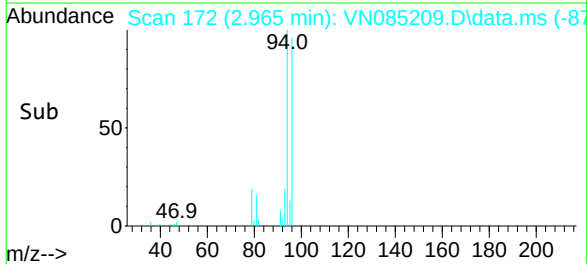
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



Tgt Ion: 94 Resp: 27446
Ion Ratio Lower Upper
94 100
96 96.4 76.2 114.4

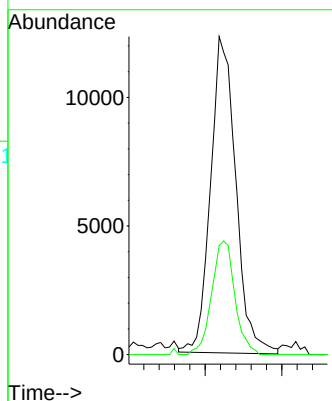
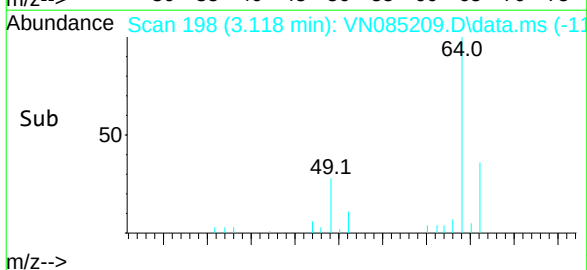
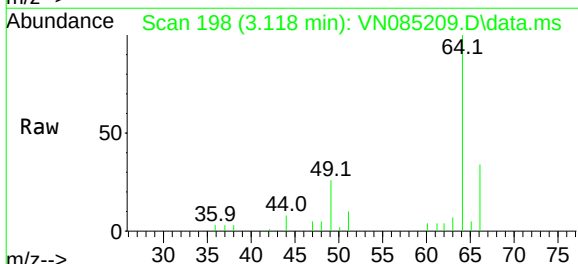
Manual Integrations
APPROVED

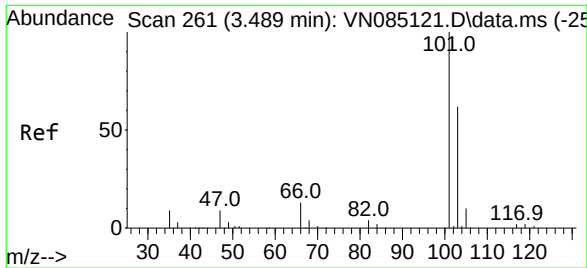
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#6
Chloroethane
Concen: 21.216 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

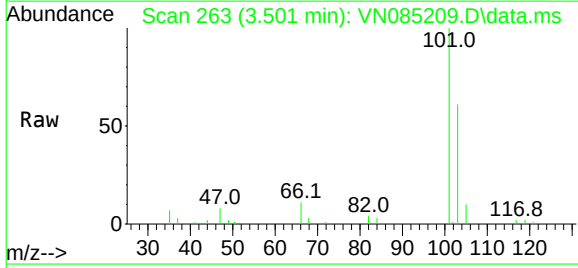
Tgt Ion: 64 Resp: 28186
Ion Ratio Lower Upper
64 100
66 34.9 25.5 38.3





#7
Trichlorofluoromethane
Concen: 20.573 ug/l
RT: 3.501 min Scan# 261
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

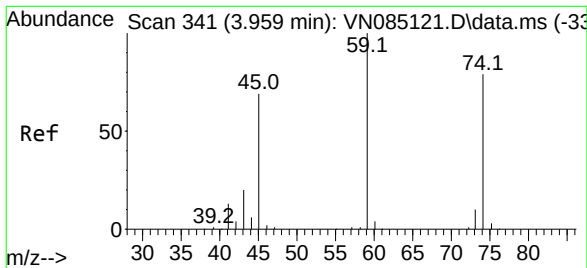
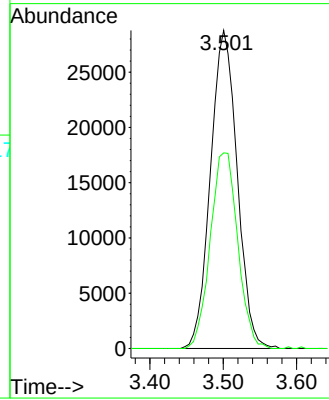
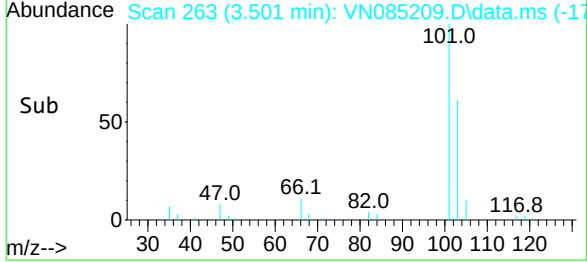
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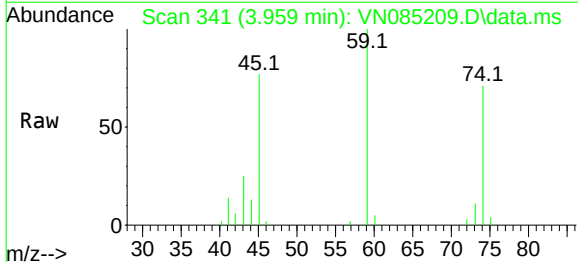
Tgt Ion:101 Resp: 72820
Ion Ratio Lower Upper
101 100
103 61.5 51.3 76.9

Manual Integrations
APPROVED

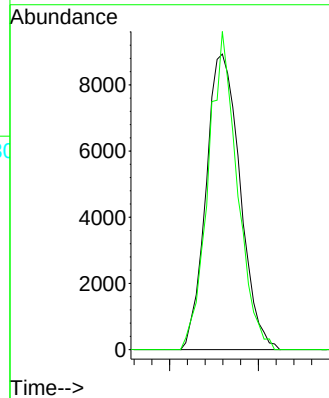
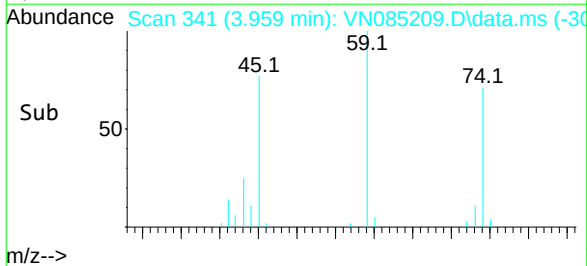
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

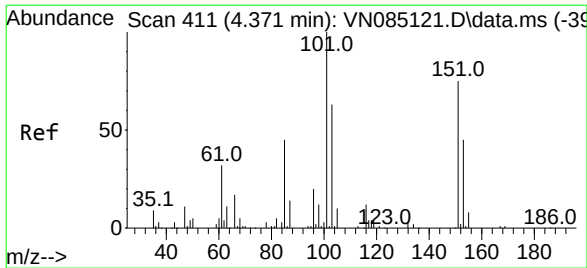


#8
Diethyl Ether
Concen: 21.222 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



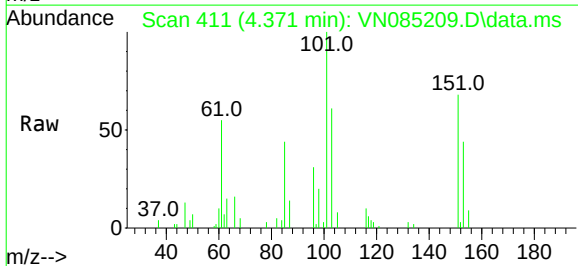
Tgt Ion: 74 Resp: 23793
Ion Ratio Lower Upper
74 100
45 92.1 18.6 167.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.912 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

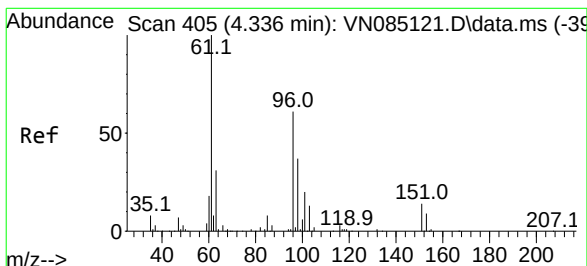
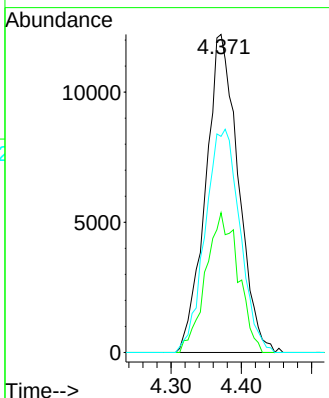
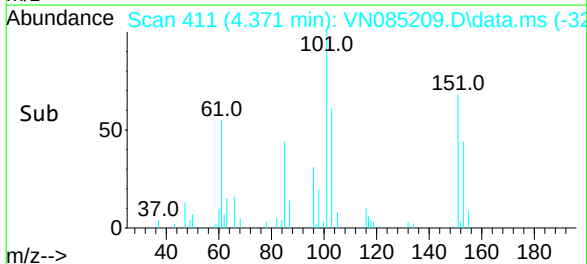
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VN1216WBSD01



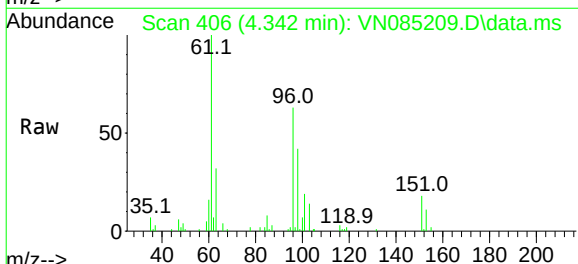
Tgt Ion: 101 Resp: 39414
Ion Ratio Lower Upper
101 100
85 27.1 0.0 88.6
151 74.7 0.0 155.8

Manual Integrations
APPROVED

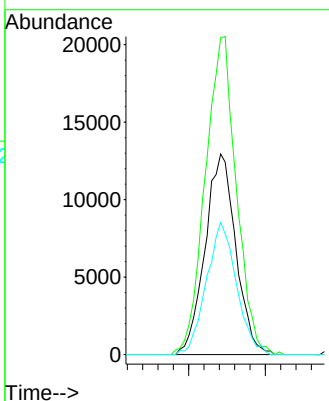
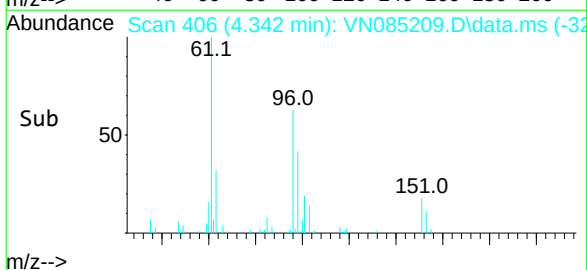
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024

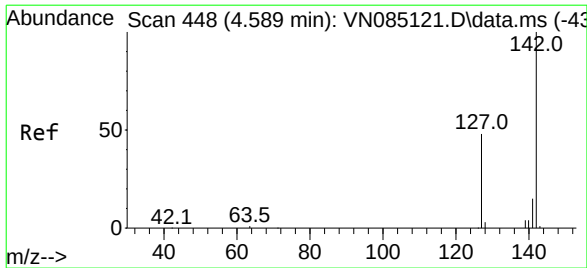


#10
1,1-Dichloroethene
Concen: 19.853 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



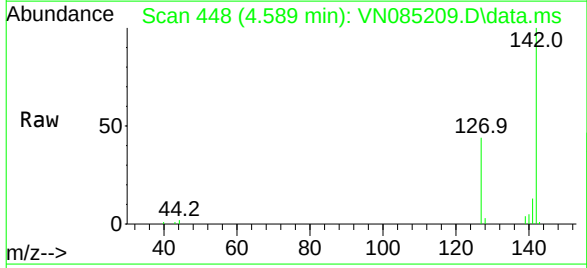
Tgt Ion: 96 Resp: 36096
Ion Ratio Lower Upper
96 100
61 157.9 123.0 184.4
98 65.9 49.1 73.7





#11
Methyl Iodide
Concen: 18.268 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

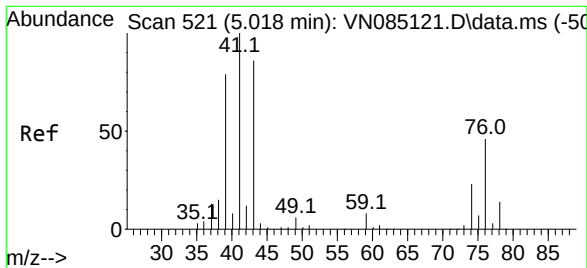
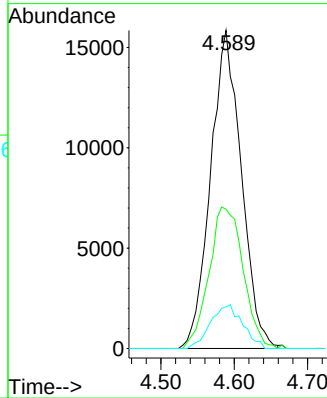
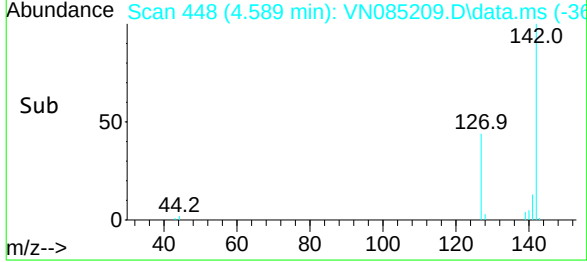
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



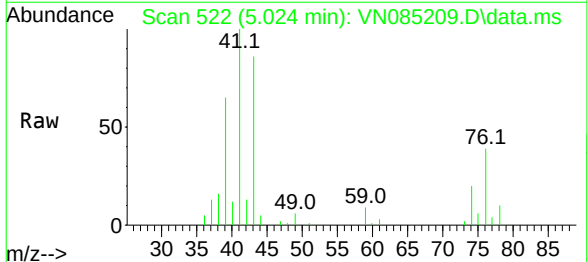
Tgt Ion: 142 Resp: 46064
Ion Ratio Lower Upper
142 100
127 44.0 22.5 67.5
141 13.2 8.3 24.9

Manual Integrations
APPROVED

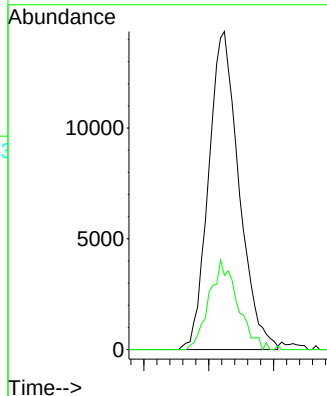
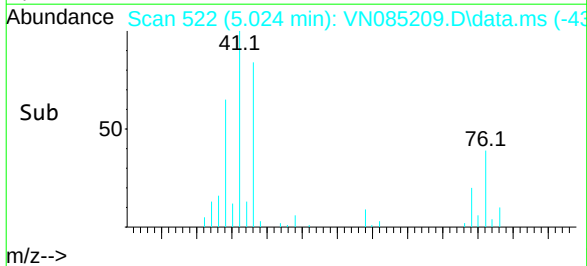
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

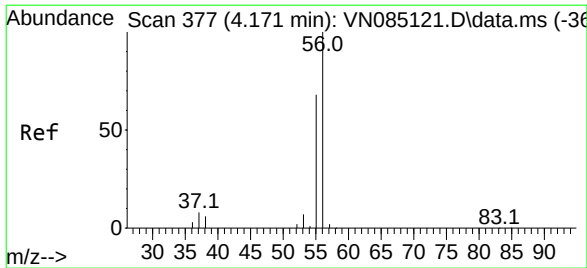


#12
Methyl Acetate
Concen: 21.790 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



Tgt Ion: 43 Resp: 46738
Ion Ratio Lower Upper
43 100
74 22.9 19.8 29.6





#13

Acrolein

Concen: 114.765 ug/l

RT: 4.177 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

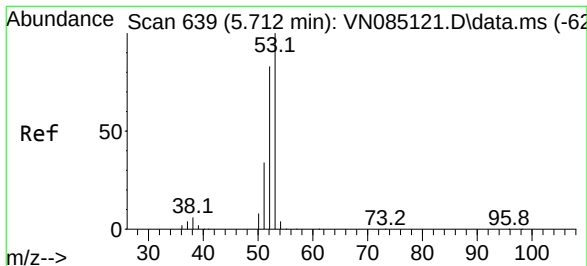
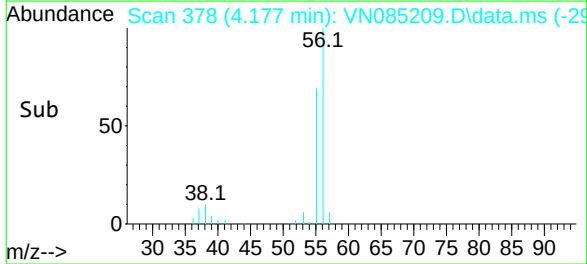
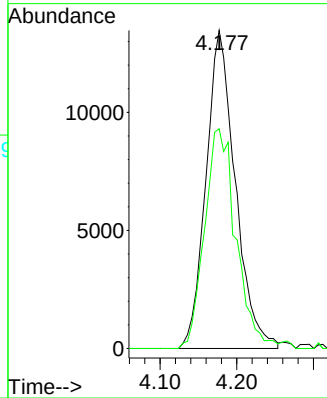
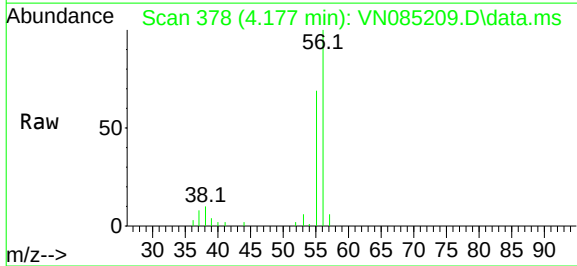
Tgt Ion: 56 Resp: 35773
 Ion Ratio Lower Upper
 56 100
 55 73.0 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#14

Acrylonitrile

Concen: 102.973 ug/l

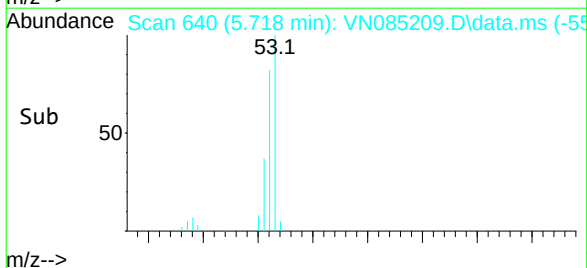
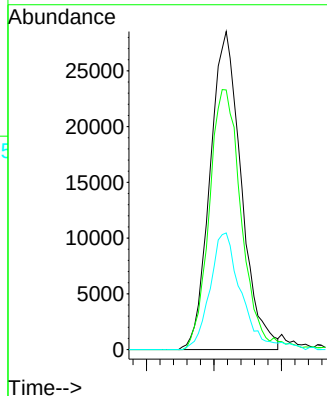
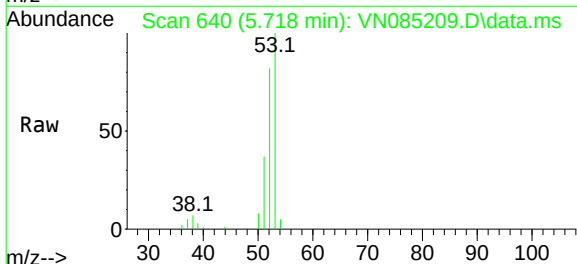
RT: 5.718 min Scan# 640

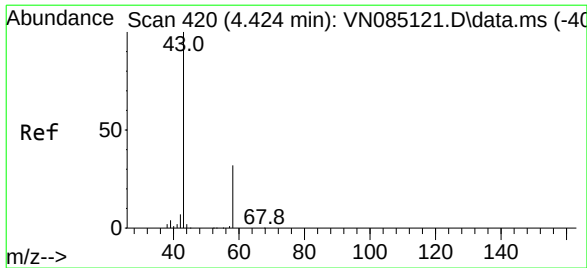
Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Tgt Ion: 53 Resp: 91712
 Ion Ratio Lower Upper
 53 100
 52 82.4 42.9 128.5
 51 36.2 17.2 51.5





#15

Acetone

Concen: 120.730 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

Tgt Ion: 58 Resp: 29139

Ion Ratio Lower Upper

58 100

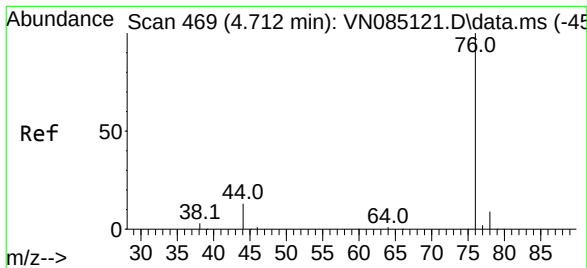
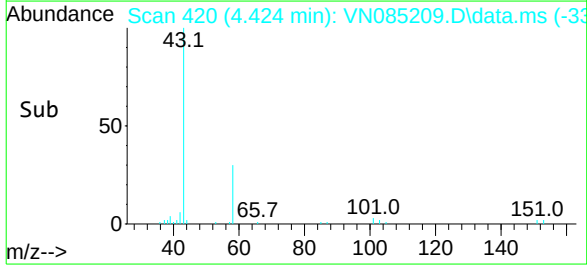
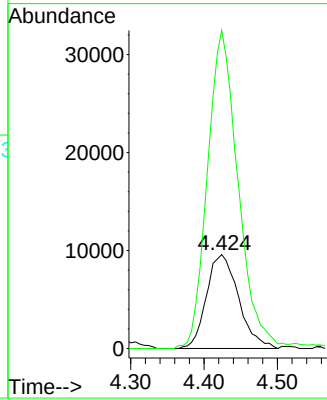
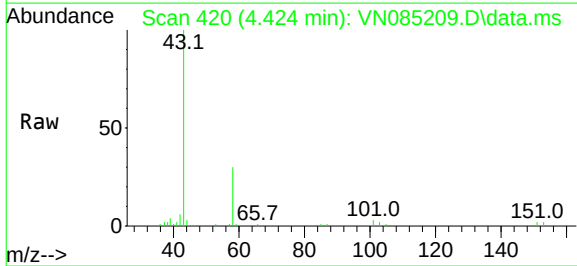
43 335.6 242.3 363.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#16

Carbon Disulfide

Concen: 19.385 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085209.D

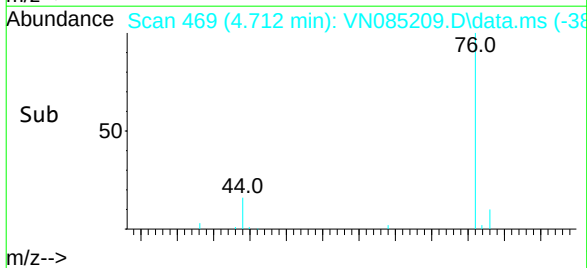
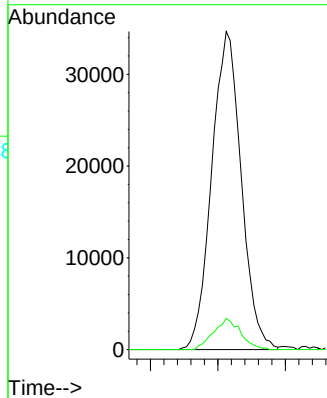
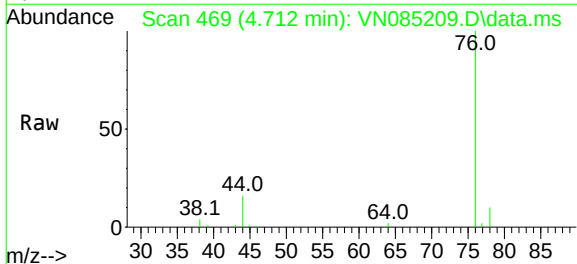
Acq: 16 Dec 2024 10:57

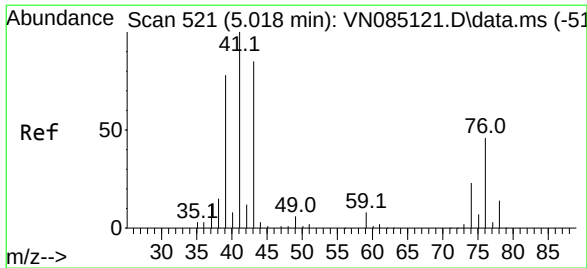
Tgt Ion: 76 Resp: 105348

Ion Ratio Lower Upper

76 100

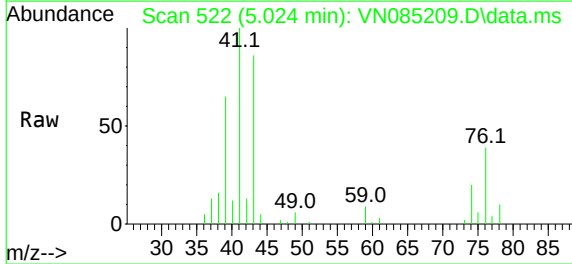
78 9.8 7.1 10.7





#17
Allyl chloride
Concen: 20.184 ug/l
RT: 5.024 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

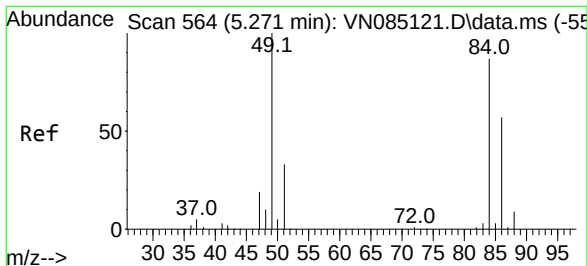
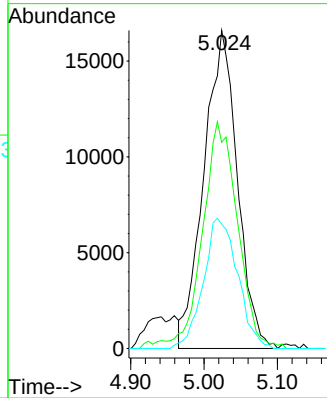
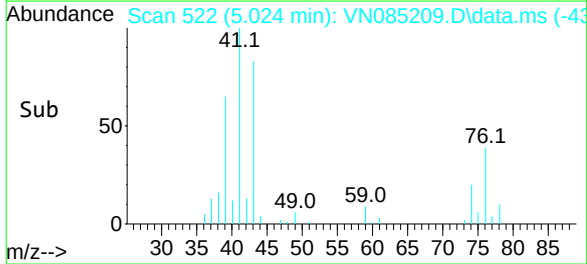
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



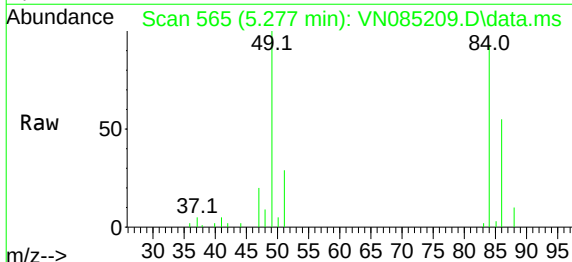
Tgt Ion: 41 Resp: 52512
Ion Ratio Lower Upper
41 100
39 63.8 32.0 96.2
76 39.1 20.2 60.5

Manual Integrations
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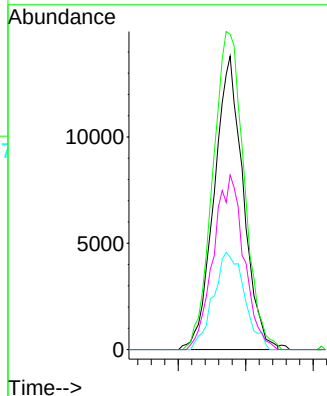
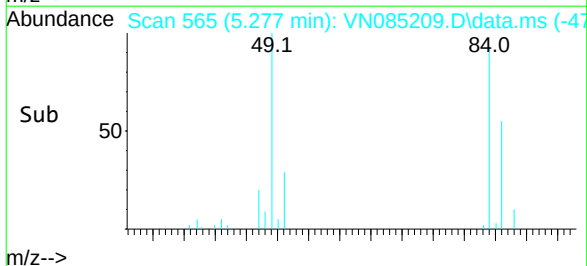
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

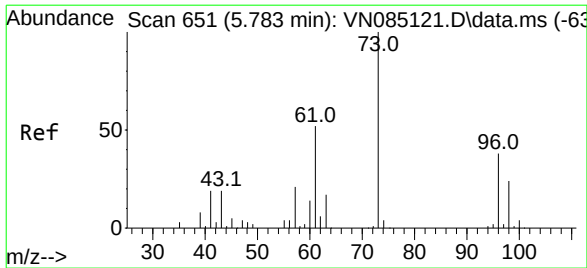


#18
Methylene Chloride
Concen: 19.976 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



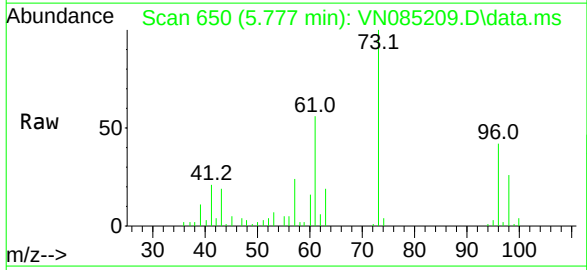
Tgt Ion: 84 Resp: 41210
Ion Ratio Lower Upper
84 100
49 107.5 95.1 142.7
51 31.5 27.4 41.0
86 59.5 50.9 76.3





#19
trans-1,2-Dichloroethene
Concen: 19.353 ug/l
RT: 5.777 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

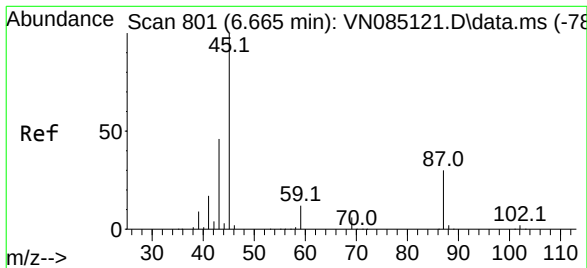
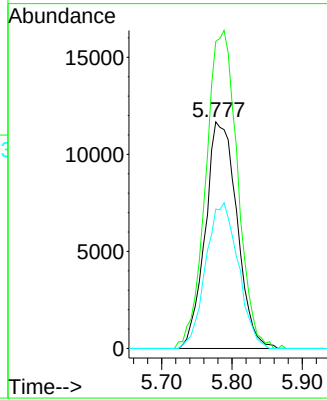
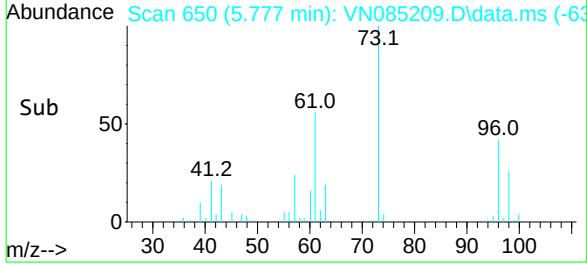
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



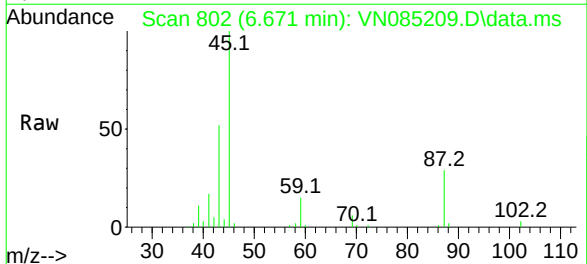
Tgt Ion: 96 Resp: 36574
Ion Ratio Lower Upper
96 100
61 135.5 100.4 150.6
98 61.5 52.6 79.0

Manual Integrations
APPROVED

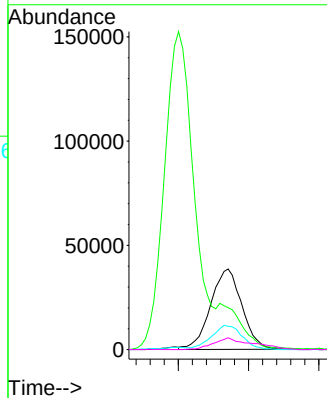
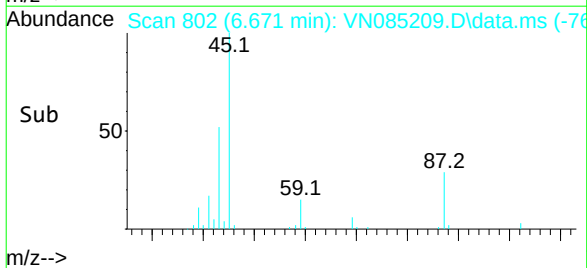
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

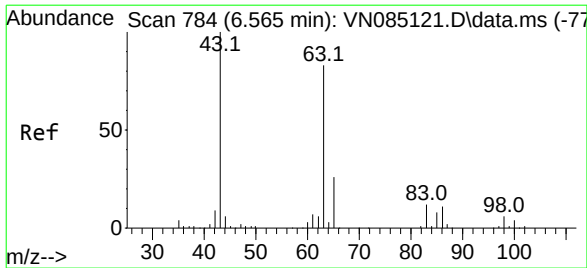


#20
Diisopropyl ether
Concen: 20.841 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



Tgt Ion: 45 Resp: 118990
Ion Ratio Lower Upper
45 100
43 49.4 41.9 62.9
87 29.3 24.1 36.1
59 14.8 10.0 15.0





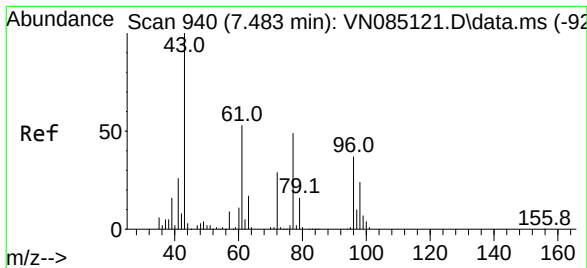
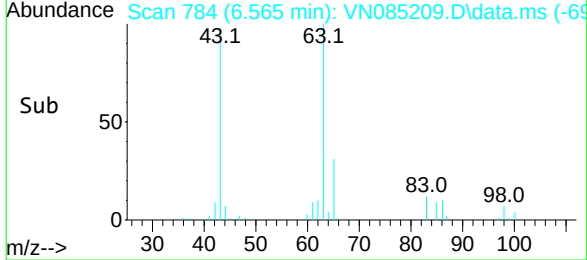
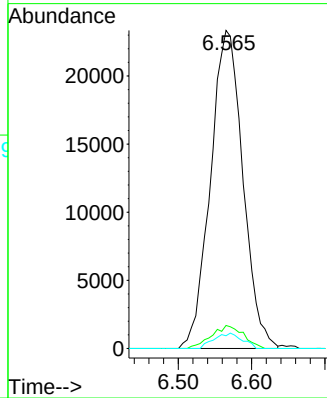
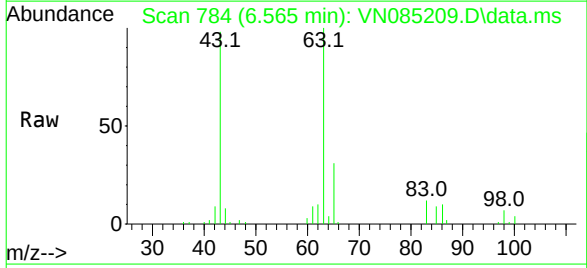
#21
1,1-Dichloroethane
Concen: 20.339 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:	63	Resp:	71674
Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.4
100	4.0	1.6	4.8

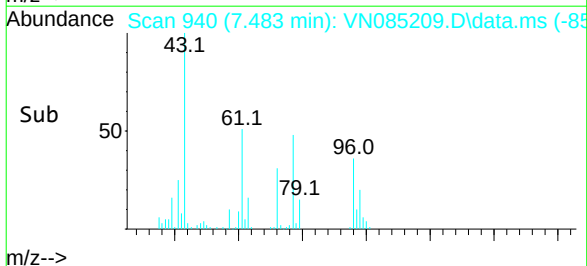
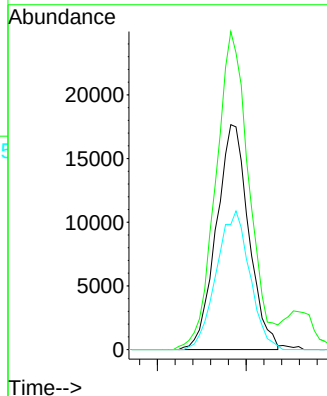
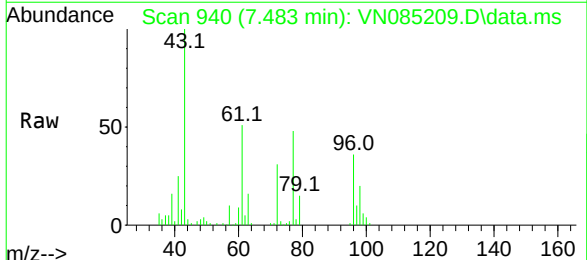
Manual Integrations
APPROVED

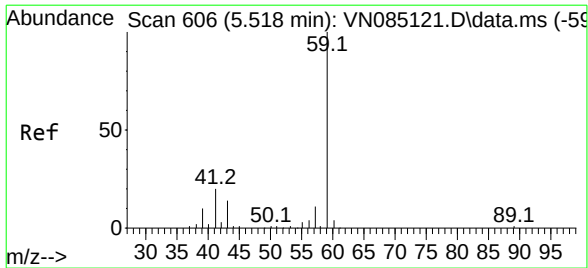
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#22
cis-1,2-Dichloroethene
Concen: 20.587 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:	96	Resp:	44718
Ion	Ratio	Lower	Upper
96	100		
61	143.9	115.9	173.9
98	63.4	51.8	77.8





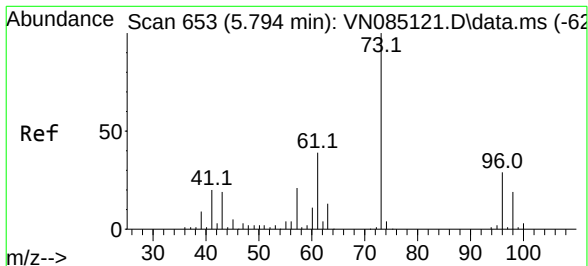
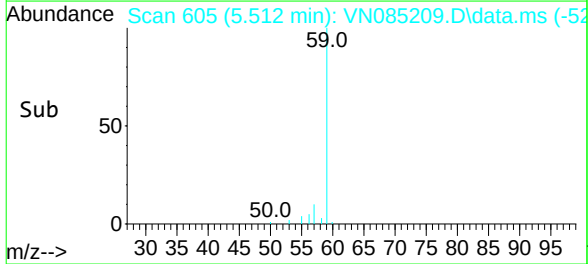
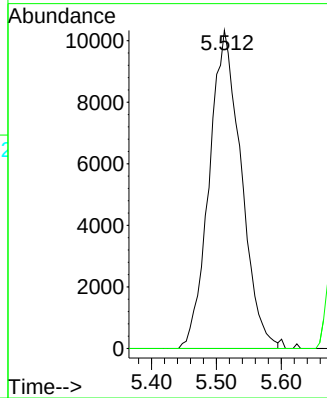
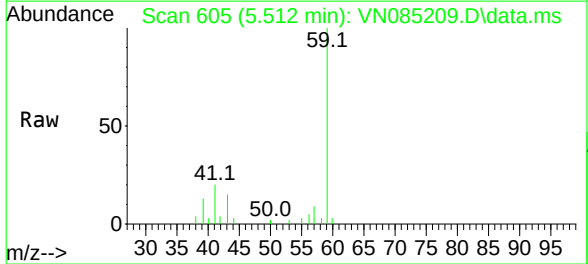
#23
tert-Butyl Alcohol
Concen: 110.664 ug/l
RT: 5.512 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion: 59 Resp: 35358
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

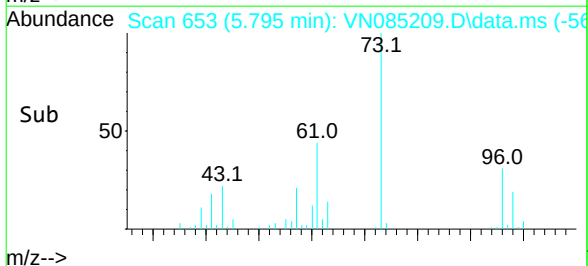
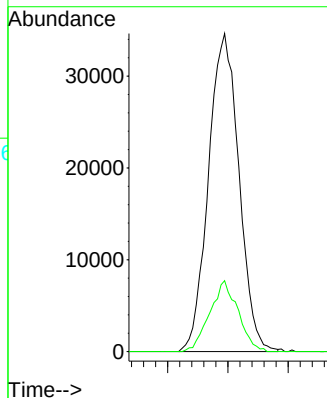
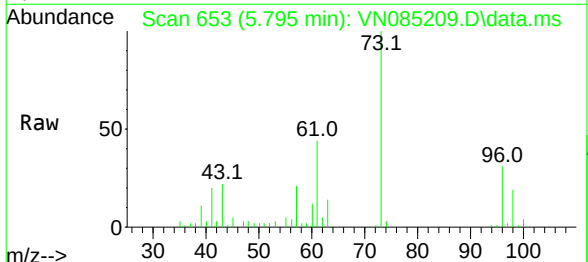
Manual Integrations
APPROVED

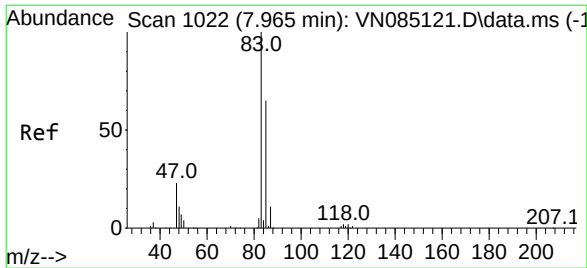
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#24
Methyl tert-Butyl Ether
Concen: 21.432 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 73 Resp: 121741
Ion Ratio Lower Upper
73 100
43 20.7 8.7 13.1#





#25

Chloroform

Concen: 20.218 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

Tgt Ion: 83 Resp: 74641

Ion Ratio Lower Upper

83 100

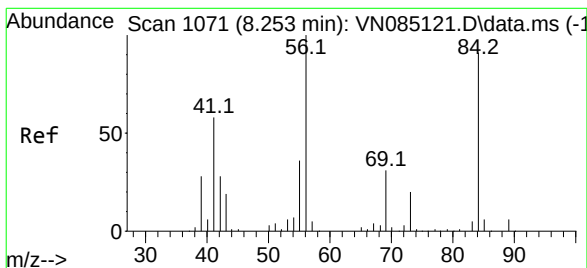
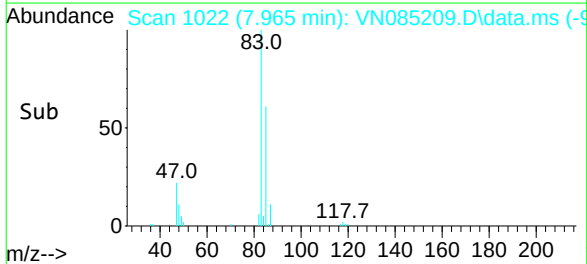
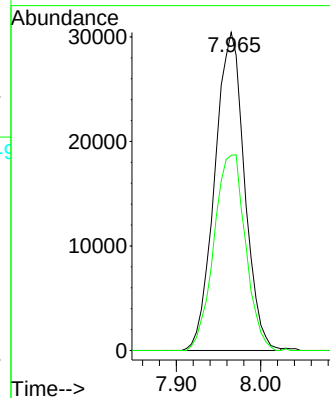
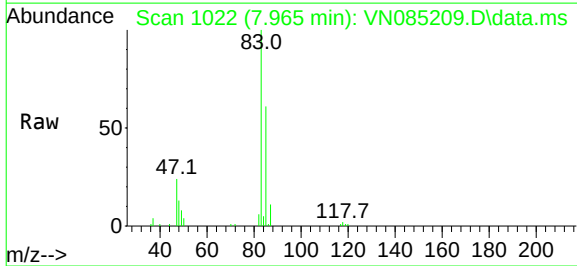
85 61.4 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#26

Cyclohexane

Concen: 19.610 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

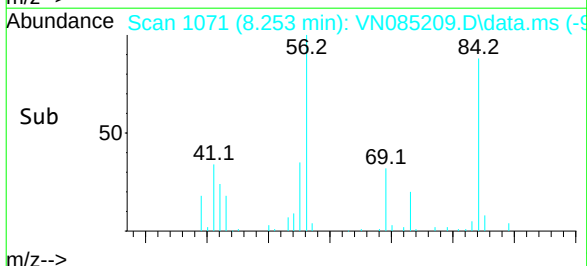
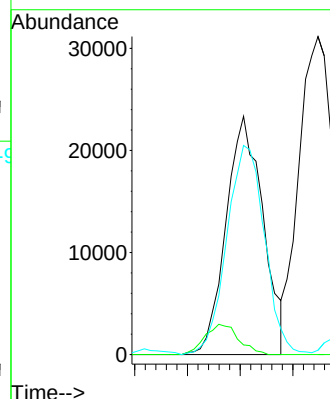
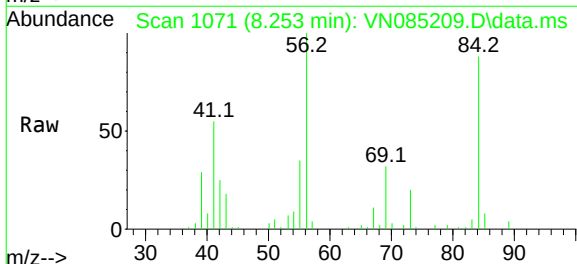
Tgt Ion: 56 Resp: 56899

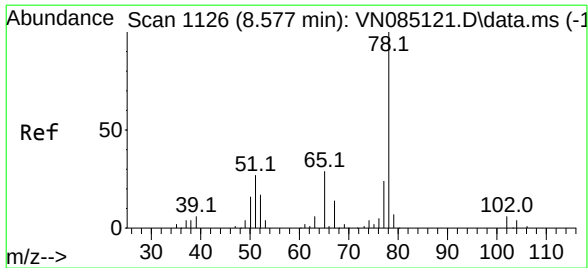
Ion Ratio Lower Upper

56 100

89 11.6 19.5 29.3#

84 89.9 70.6 105.8





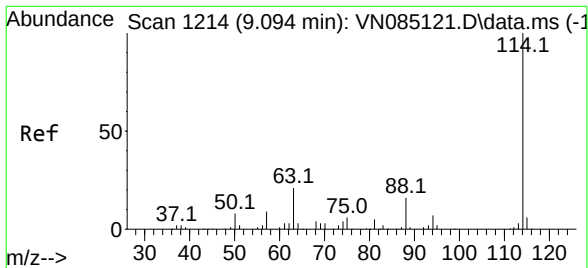
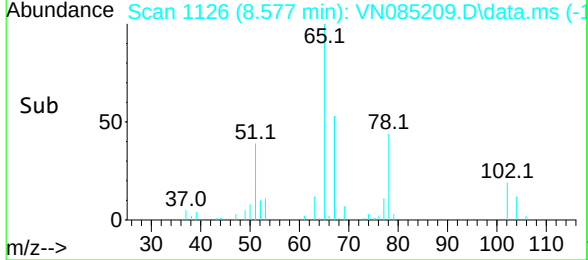
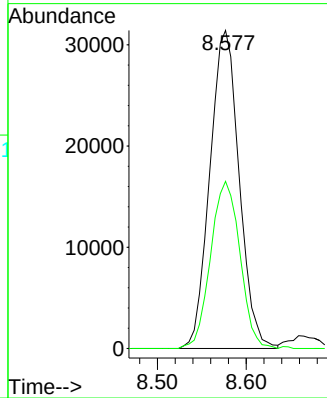
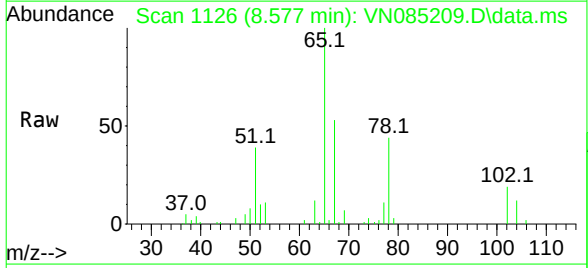
#27
1,2-Dichloroethane-d4
Concen: 30.408 ug/l
RT: 8.577 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion: 65 Resp: 72034
Ion Ratio Lower Upper
65 100
67 52.5 39.9 59.9

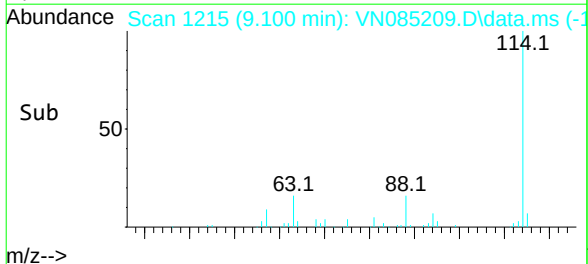
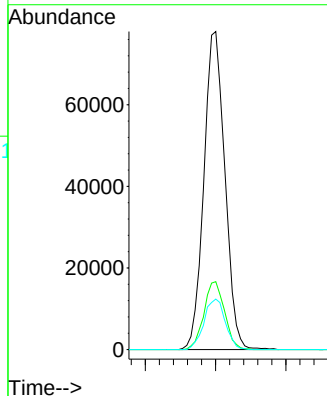
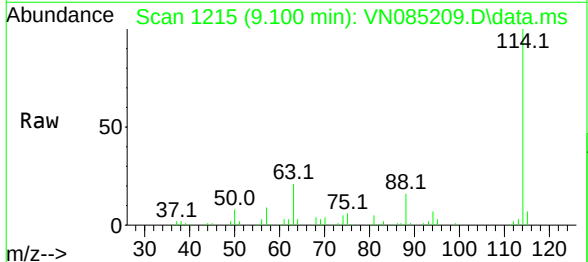
Manual Integrations
APPROVED

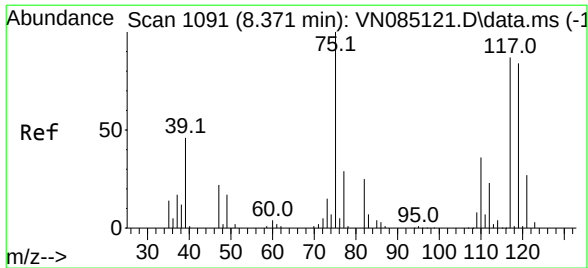
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:114 Resp: 161867
Ion Ratio Lower Upper
114 100
63 21.0 16.2 24.2
88 16.2 12.5 18.7





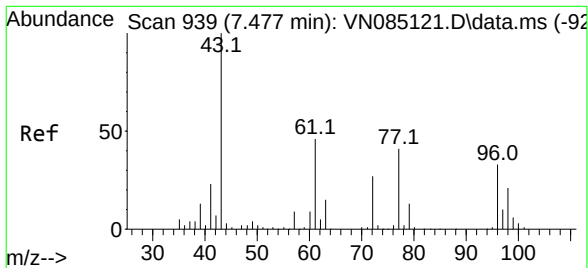
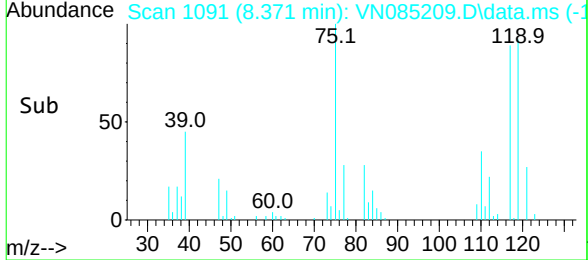
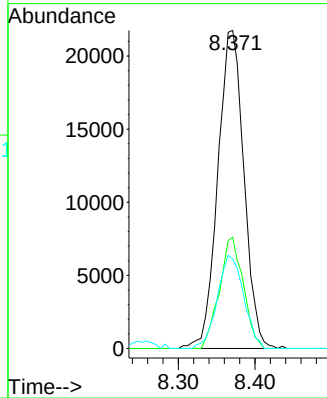
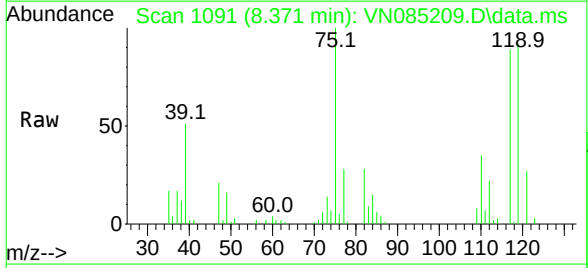
#29
1,1-Dichloropropene
Concen: 19.659 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion: 75	Resp: 51348
Ion Ratio	Lower Upper
75 100	
110 32.1	0.0 71.6
77 29.5	0.0 62.2

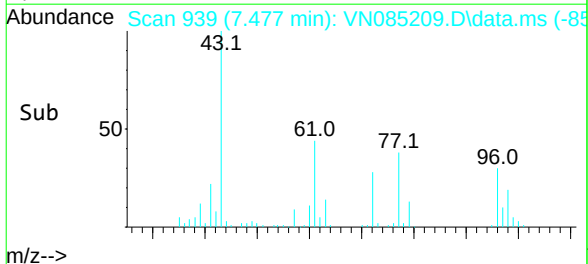
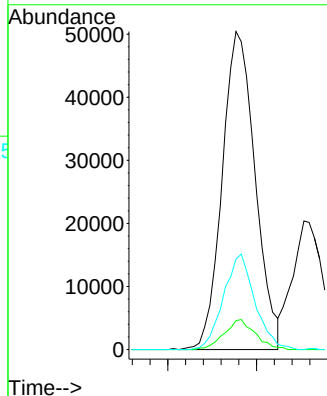
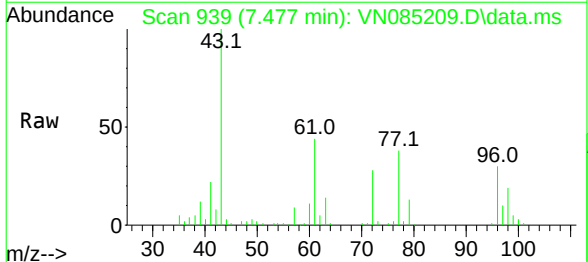
Manual Integrations
APPROVED

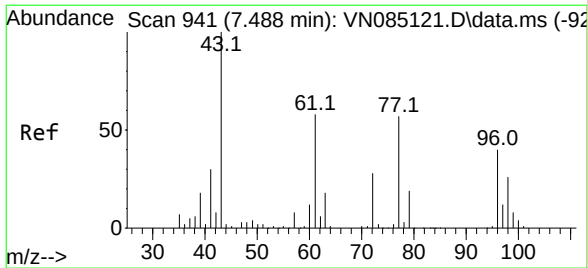
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#30
2-Butanone
Concen: 108.562 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 43	Resp: 130125
Ion Ratio	Lower Upper
43 100	
57 8.9	6.9 10.3
72 28.6	21.8 32.8





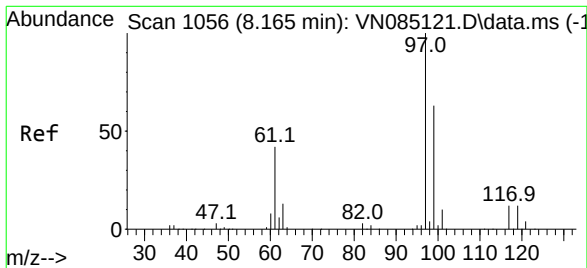
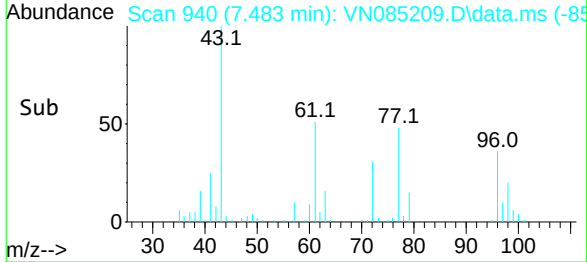
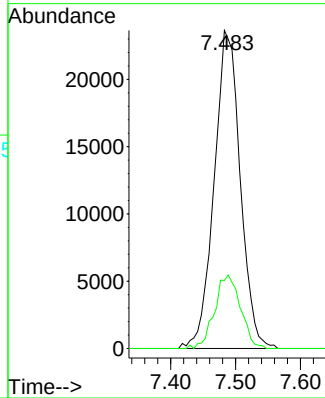
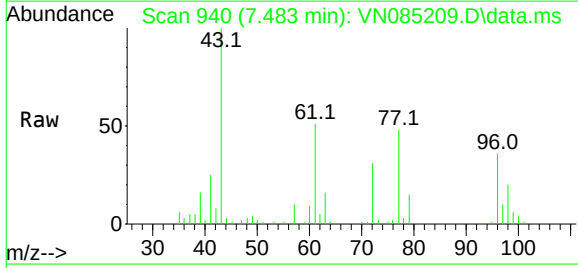
#31
2,2-Dichloropropane
Concen: 19.694 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion: 77 Resp: 65963
Ion Ratio Lower Upper
77 100
97 22.8 0.0 0.0#

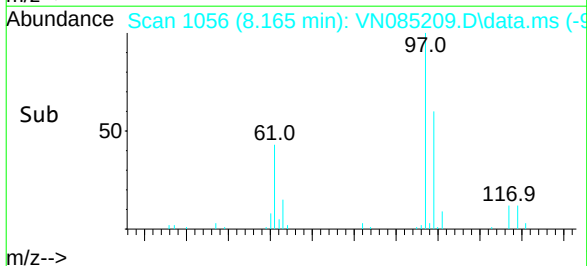
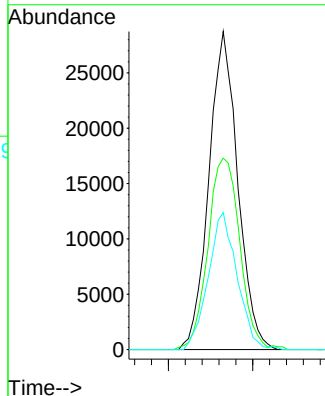
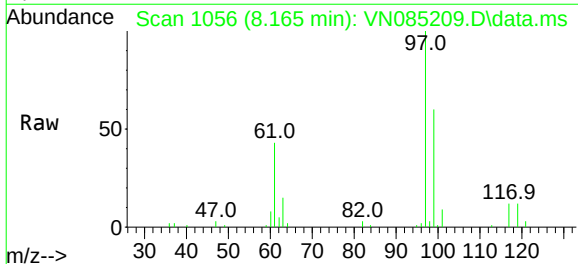
Manual Integrations
APPROVED

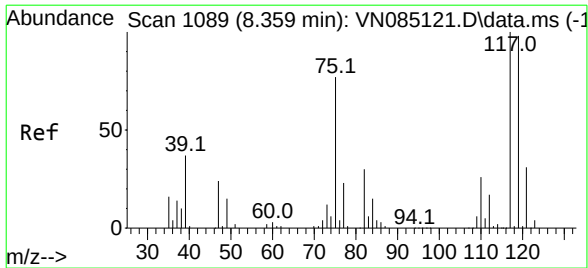
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#32
1,1,1-Trichloroethane
Concen: 19.342 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

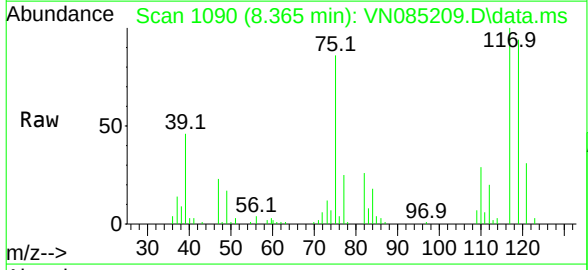
Tgt Ion: 97 Resp: 68382
Ion Ratio Lower Upper
97 100
99 66.0 50.8 76.2
61 43.0 32.7 49.1





#33
Carbon Tetrachloride
Concen: 19.398 ug/l
RT: 8.365 min Scan# 1089
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

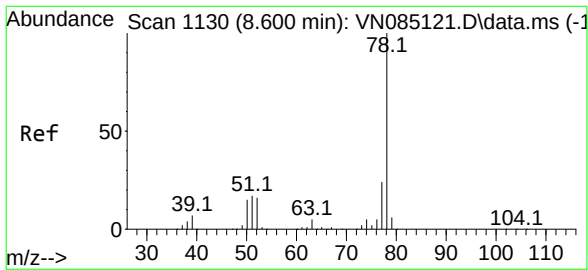
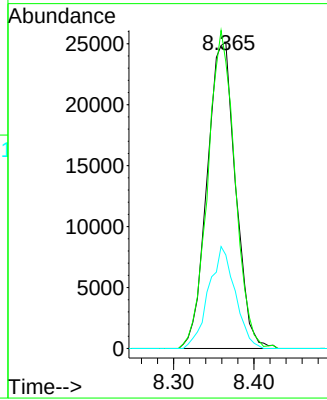
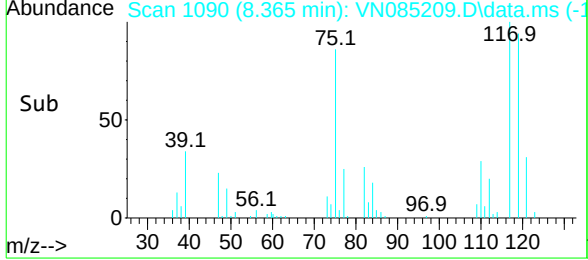
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



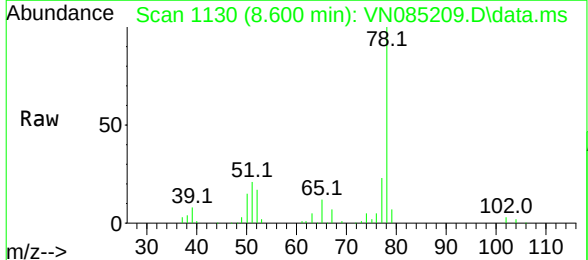
Tgt Ion: 117 Resp: 61882
Ion Ratio Lower Upper
117 100
119 93.6 81.6 122.4
121 30.6 26.5 39.7

Manual Integrations
APPROVED

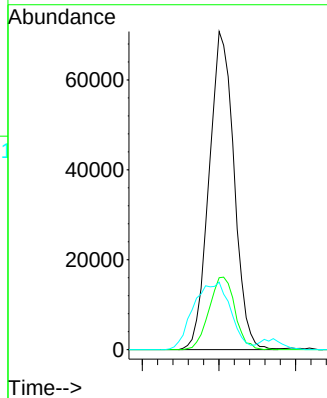
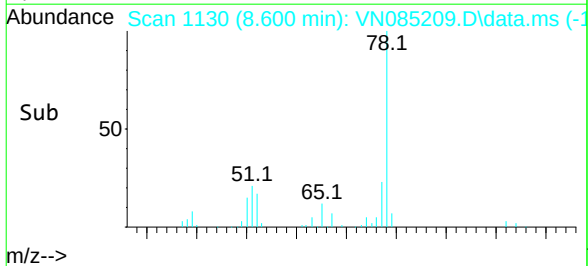
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024

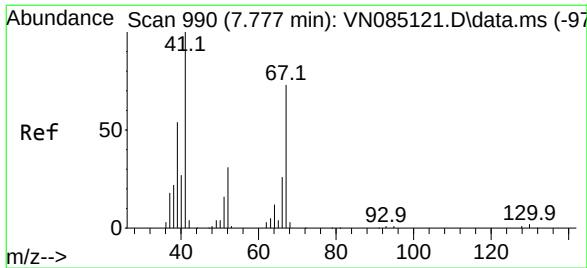


#34
Benzene
Concen: 19.479 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



Tgt Ion: 78 Resp: 159828
Ion Ratio Lower Upper
78 100
77 22.6 18.0 27.0
51 18.8 12.4 18.6#





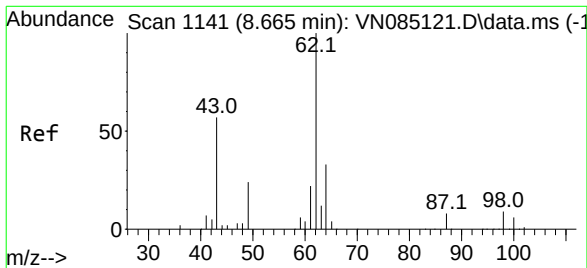
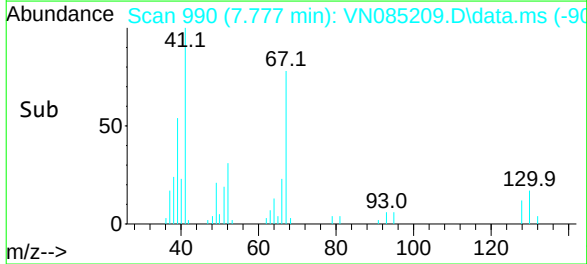
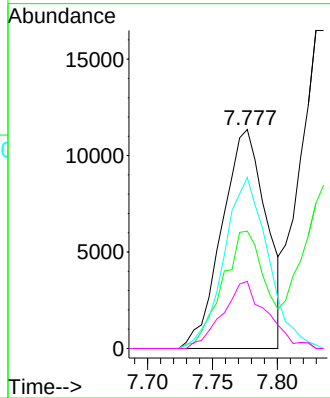
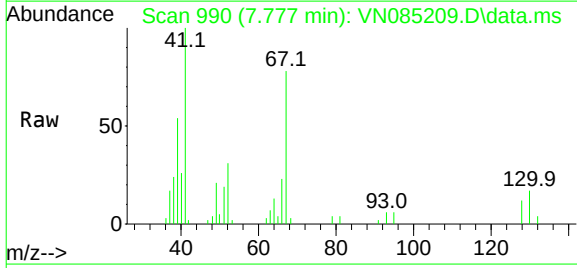
#35
Methacrylonitrile
Concen: 20.039 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:	41	Resp:	27036
Ion	Ratio	Lower	Upper
41	100		
39	53.6	24.4	73.2
67	78.1	37.0	110.9
52	30.6	12.4	37.2

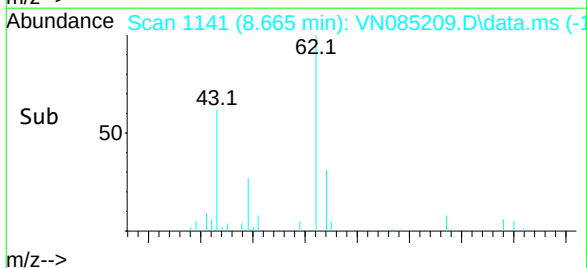
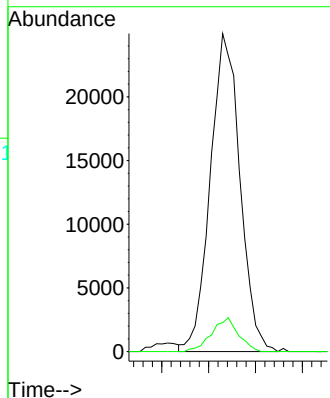
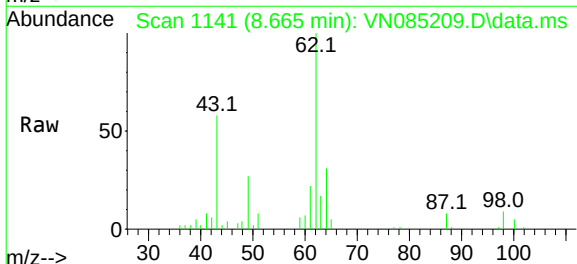
Manual Integrations
APPROVED

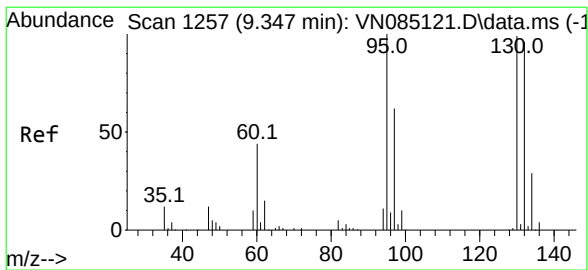
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#36
1,2-Dichloroethane
Concen: 19.646 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

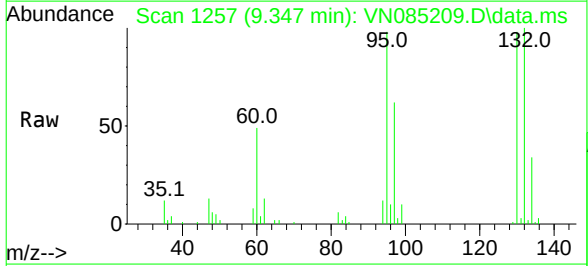
Tgt Ion:	62	Resp:	54876
Ion	Ratio	Lower	Upper
62	100		
98	9.6	7.3	10.9





#37
Trichloroethene
Concen: 19.498 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

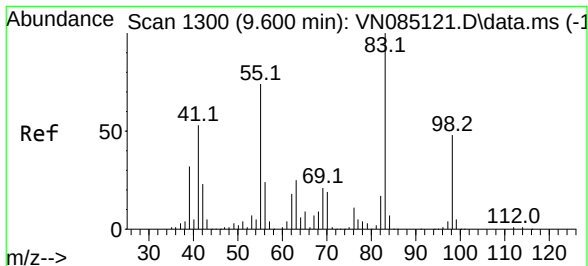
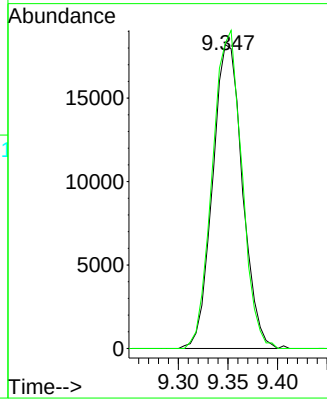
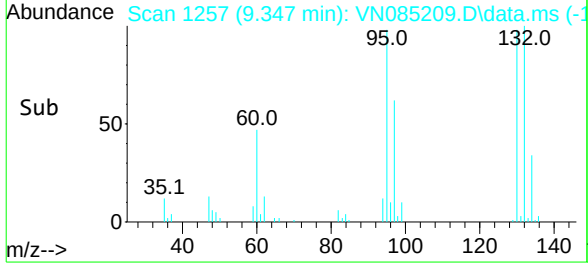
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



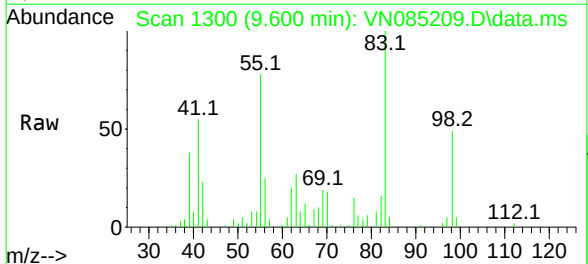
Tgt Ion: 130 Resp: 38098
Ion Ratio Lower Upper
130 100
95 100.4 76.2 114.4

Manual Integrations
APPROVED

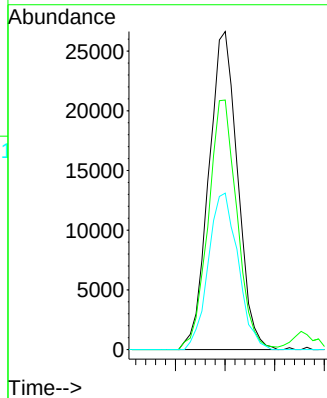
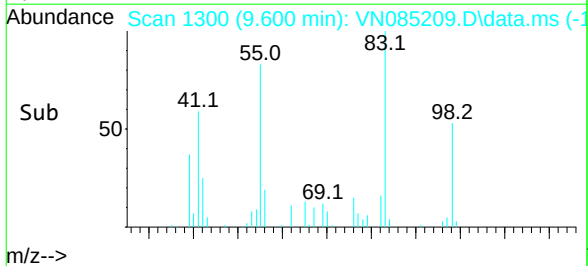
Reviewed By : John Carlone 12/16/2024
Supervised By : Mahesh Dadoda 12/17/2024

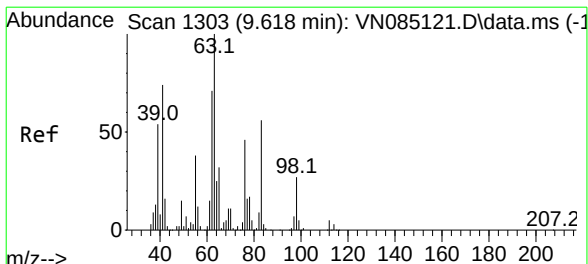


#38
Methylcyclohexane
Concen: 18.974 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



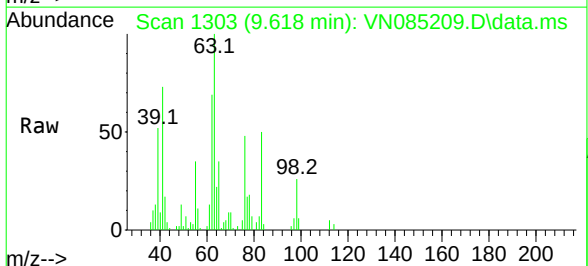
Tgt Ion: 83 Resp: 53887
Ion Ratio Lower Upper
83 100
55 78.1 41.4 124.4
98 50.6 25.7 77.1





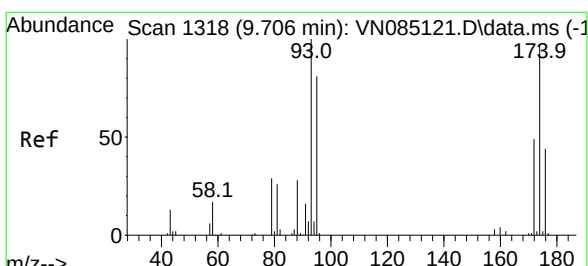
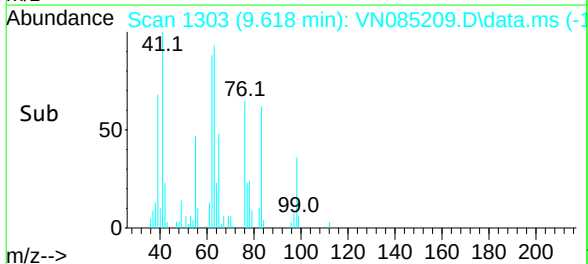
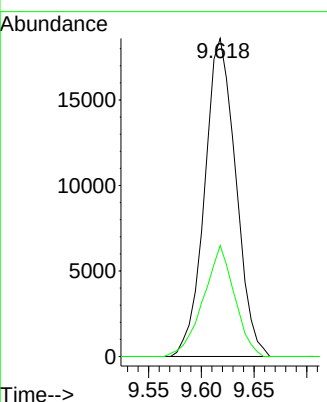
#39
 1,2-Dichloropropane
 Concen: 19.203 ug/l
 RT: 9.618 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

Instrument : MSVOA_N
 ClientSampleId : VN1216WBSD01



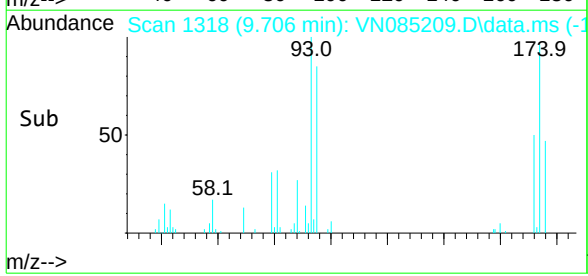
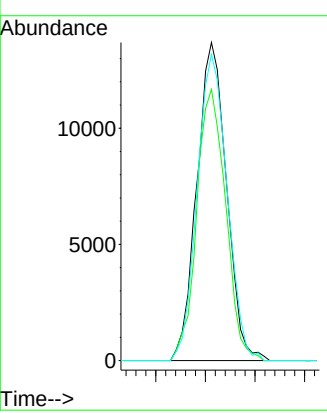
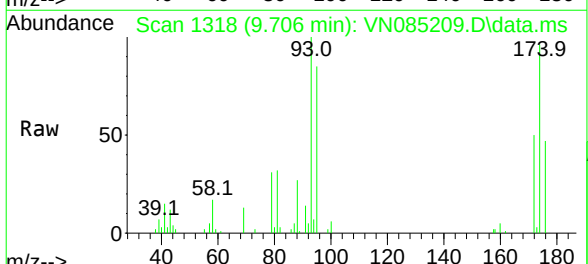
Tgt Ion:	63	Resp:	38165
Ion Ratio	Lower	Upper	
63	100		
65	34.9	23.4	35.0

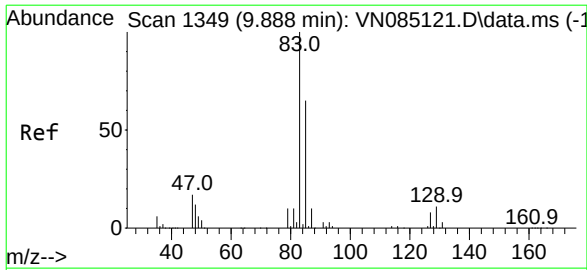
Manual Integrations
APPROVED
 Reviewed By :John Carlone 12/16/2024
 Supervised By :Mahesh Dadoda 12/17/2024



#40
 Dibromomethane
 Concen: 19.966 ug/l
 RT: 9.706 min Scan# 1318
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

Tgt Ion:	93	Resp:	28463
Ion Ratio	Lower	Upper	
93	100		
95	83.3	0.0	169.4
174	97.0	0.0	189.8





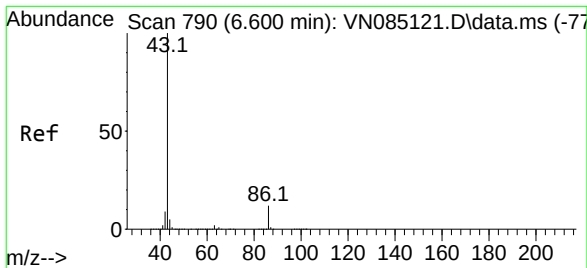
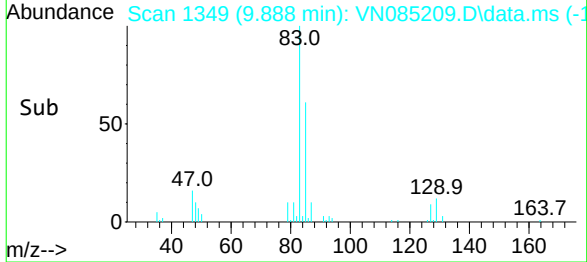
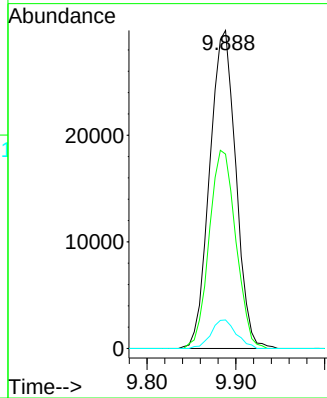
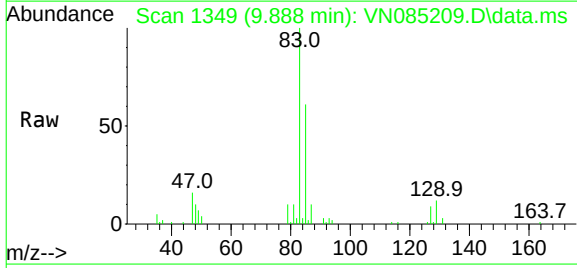
#41
Bromodichloromethane
Concen: 20.024 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.1	54.6	81.8
127	9.0	7.0	10.6

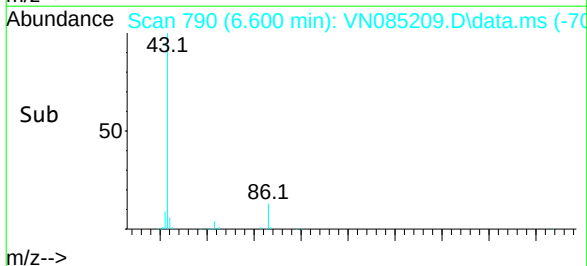
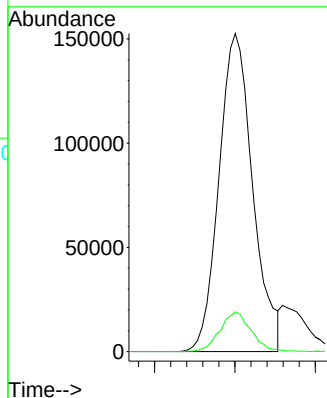
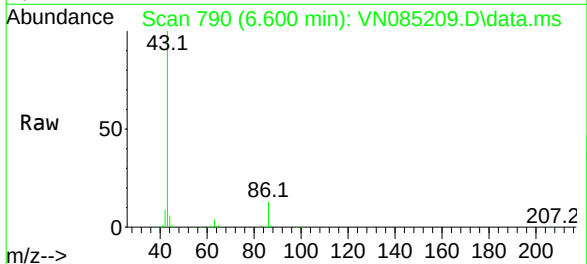
Manual Integrations
APPROVED

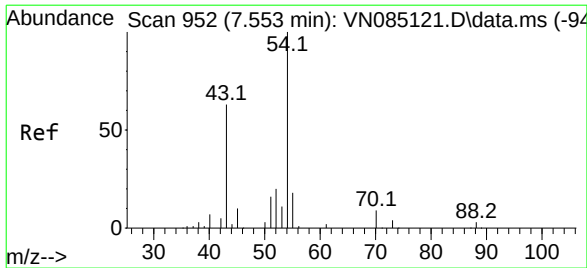
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#42
Vinyl Acetate
Concen: 106.188 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion	Ratio	Lower	Upper
43	100		
86	11.5	9.2	13.8





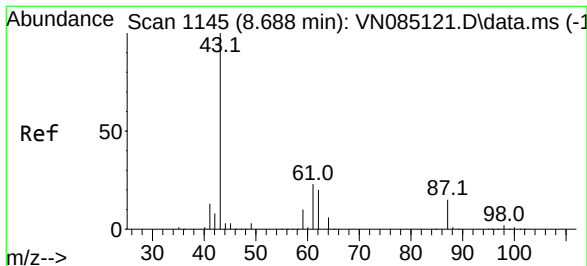
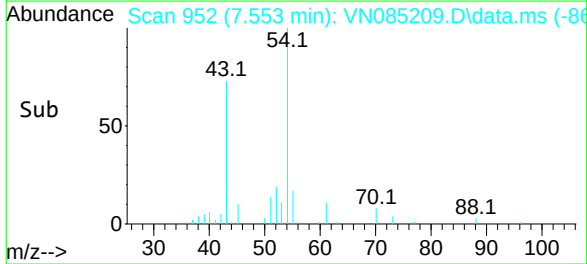
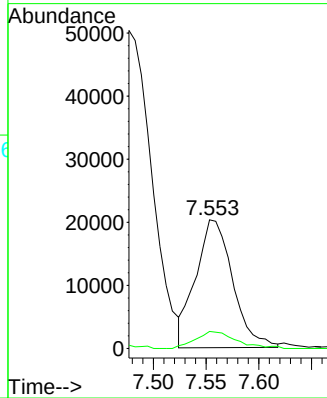
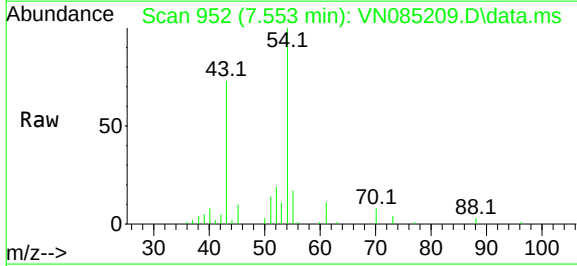
#43
Ethyl Acetate
Concen: 20.734 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion: 43 Resp: 49449
Ion Ratio Lower Upper
43 100
45 13.2 13.3 19.9#

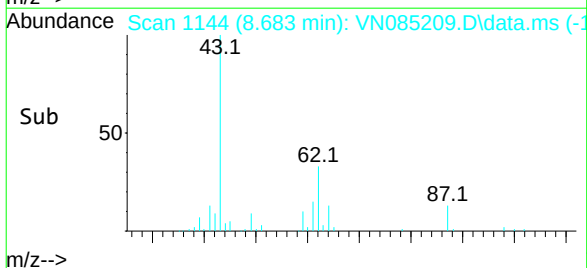
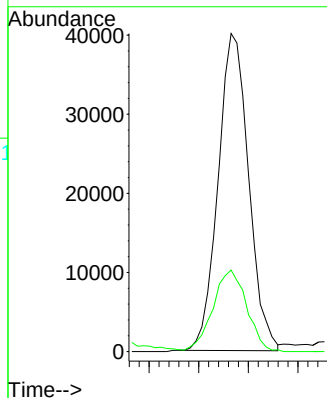
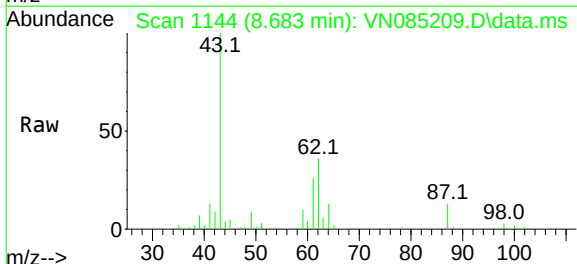
Manual Integrations
APPROVED

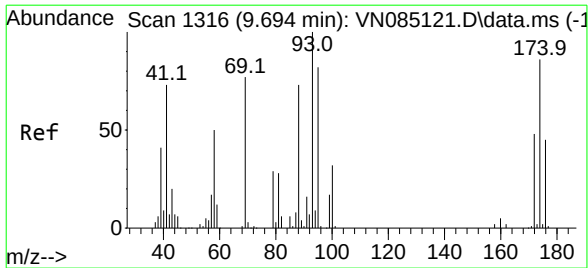
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#44
Isopropyl Acetate
Concen: 20.685 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

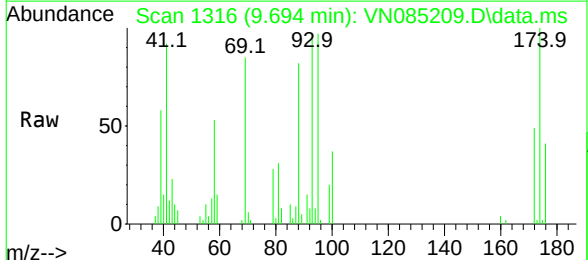
Tgt Ion: 43 Resp: 85730
Ion Ratio Lower Upper
43 100
61 28.4 21.5 32.3





#45
 1,4-Dioxane
 Concen: 407.451 ug/l
 RT: 9.694 min Scan# 1316
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

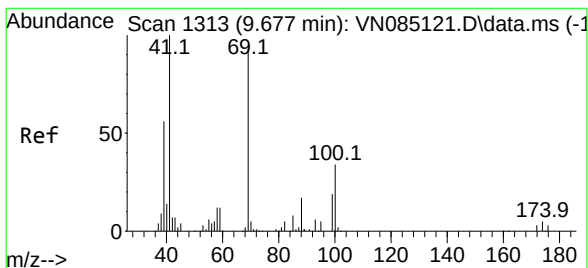
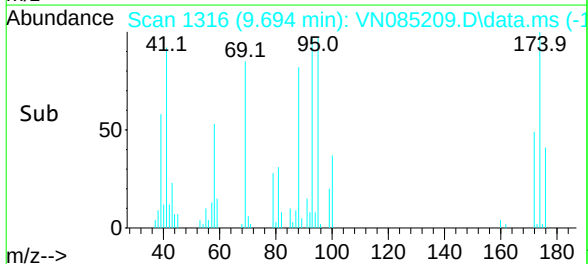
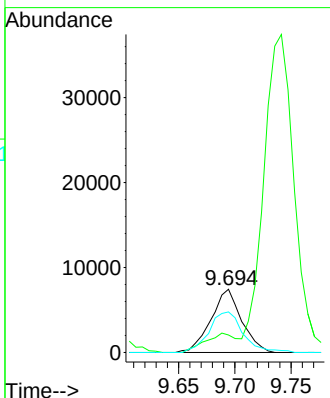
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBSD01



Tgt Ion:	88	Resp:	14082
Ion	Ratio	Lower	Upper
88	100		
43	32.9	21.7	32.5
58	71.5	52.6	79.0

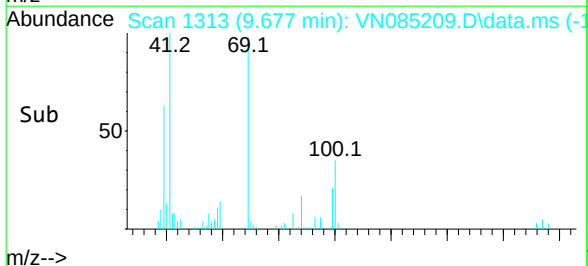
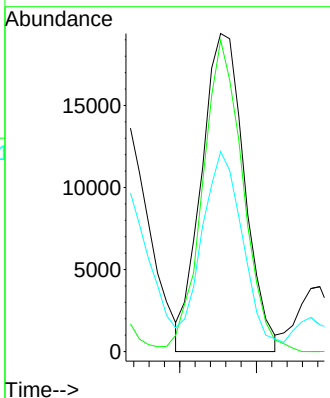
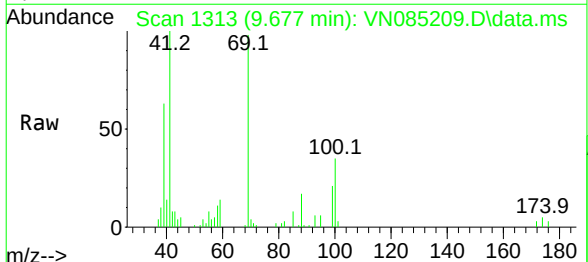
Manual Integrations
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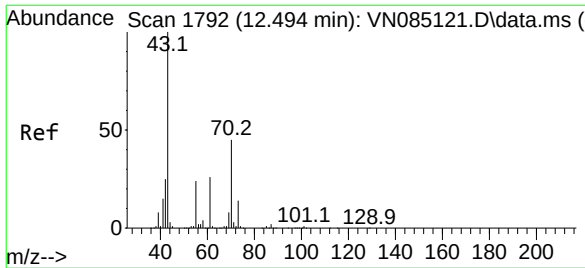
Reviewed By :John Carlone 12/16/2024
 Supervised By :Mahesh Dadoda 12/17/2024



#46
 Methyl methacrylate
 Concen: 19.915 ug/l
 RT: 9.677 min Scan# 1313
 Delta R.T. -0.006 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

Tgt Ion:	41	Resp:	37774
Ion	Ratio	Lower	Upper
41	100		
69	99.4	46.7	140.0
39	62.0	28.5	85.5





#47

n-amy1 Acetate

Concen: 19.945 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

Tgt Ion: 43 Resp: 69551

Ion Ratio Lower Upper

43 100

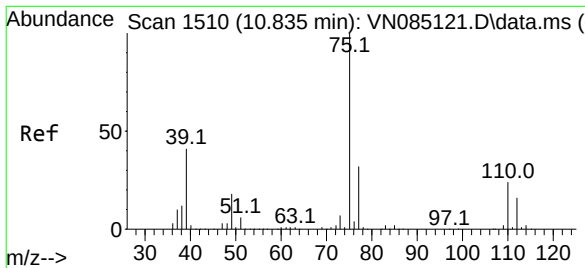
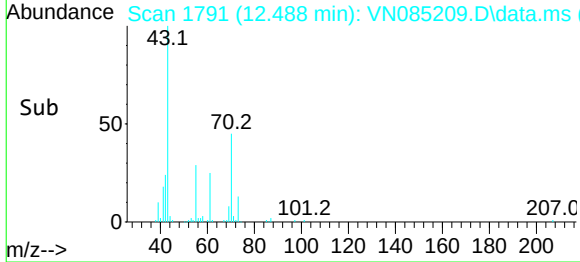
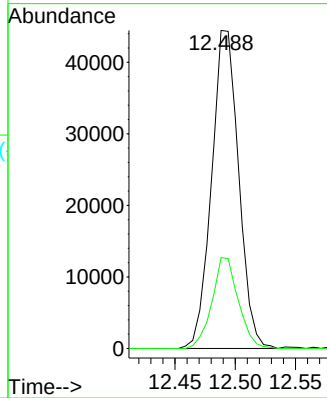
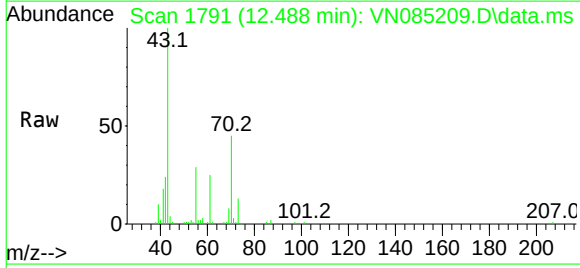
55 27.8 23.3 34.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#48

t-1,3-Dichloropropene

Concen: 19.884 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085209.D

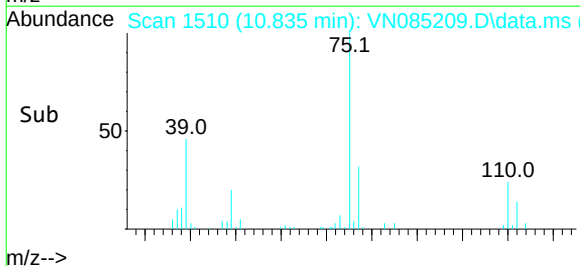
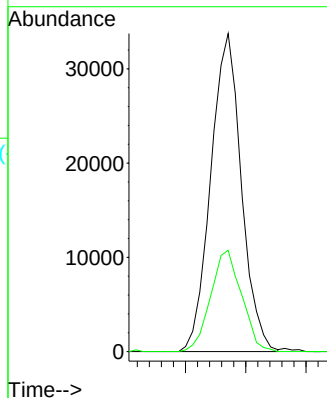
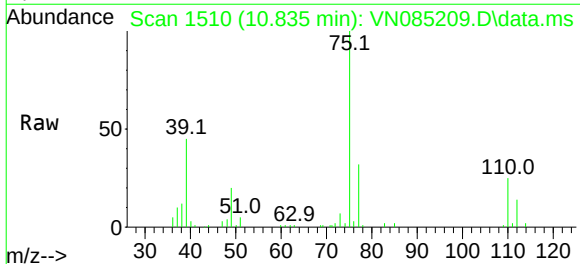
Acq: 16 Dec 2024 10:57

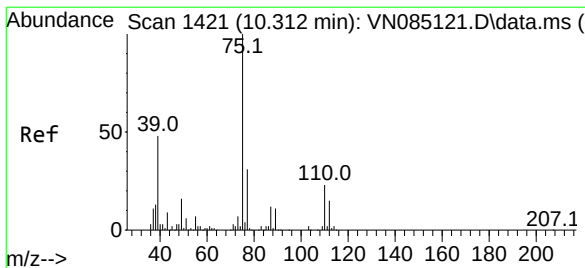
Tgt Ion: 75 Resp: 59485

Ion Ratio Lower Upper

75 100

77 31.8 25.5 38.3





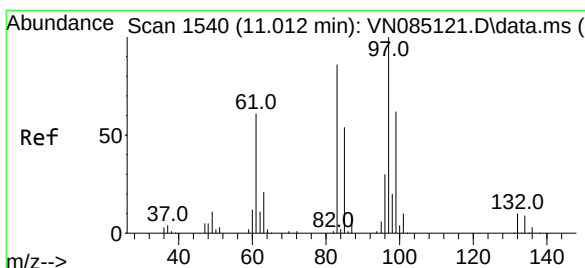
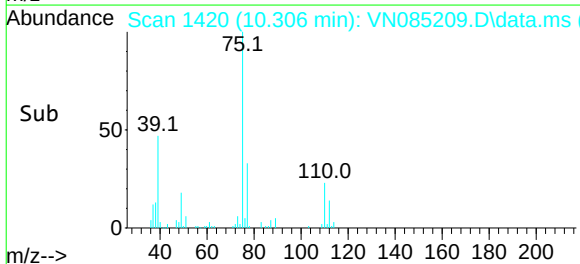
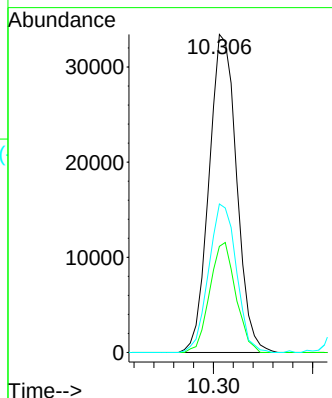
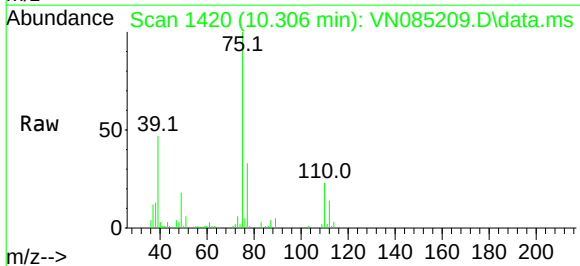
#49
cis-1,3-Dichloropropene
Concen: 19.833 ug/l
RT: 10.306 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion: 75	Resp: 64591
Ion Ratio	Lower Upper
75 100	
77 33.4	23.8 35.6
39 46.7	37.3 55.9

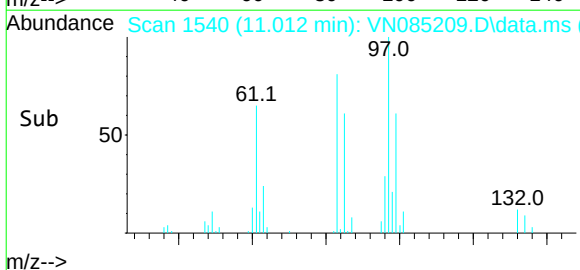
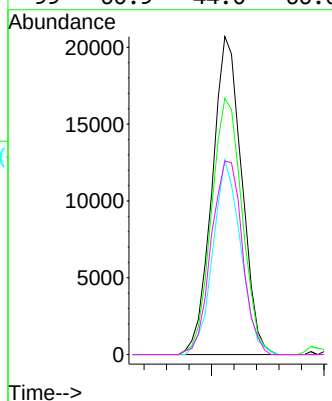
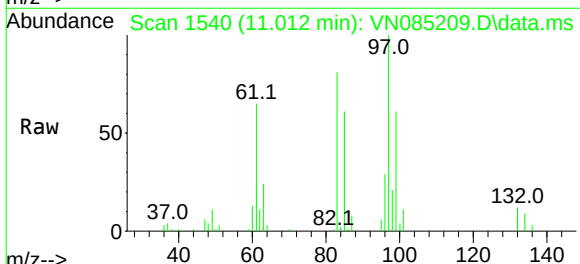
Manual Integrations
APPROVED

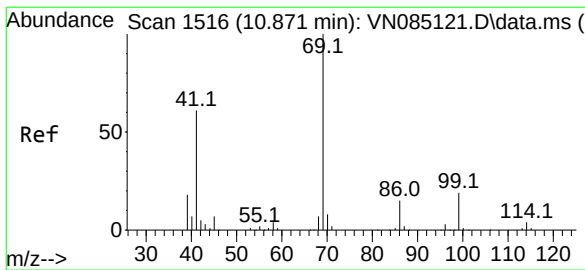
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#50
1,1,2-Trichloroethane
Concen: 19.717 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 97	Resp: 37876
Ion Ratio	Lower Upper
97 100	
83 80.5	65.8 98.8
85 61.3	40.8 61.2#
99 60.9	44.0 66.0





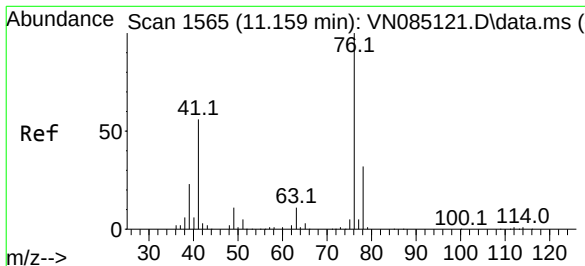
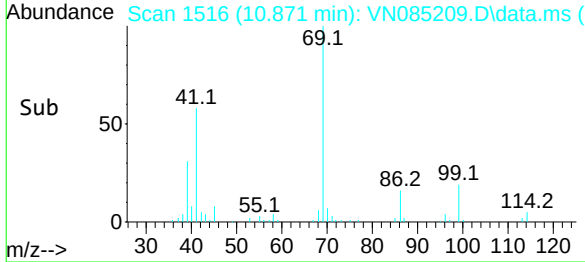
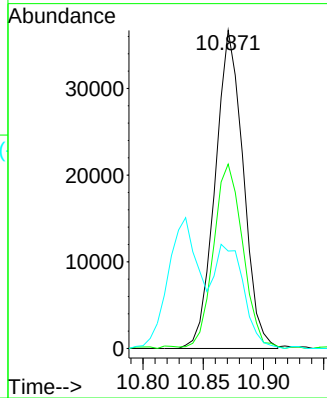
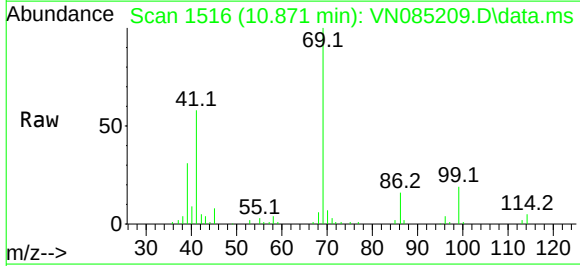
#51
Ethyl methacrylate
Concen: 20.365 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:	69	Resp:	59503
Ion	Ratio	Lower	Upper
69	100		
41	57.5	32.1	96.3
39	30.2	18.8	56.4

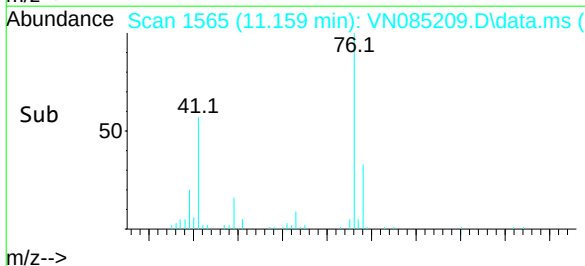
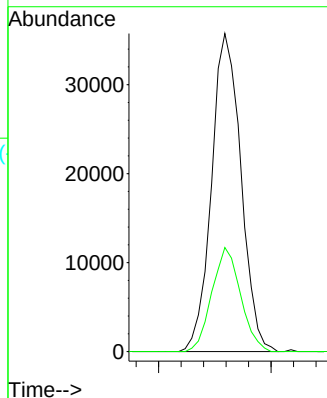
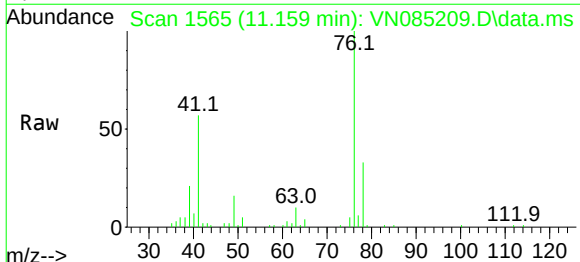
Manual Integrations
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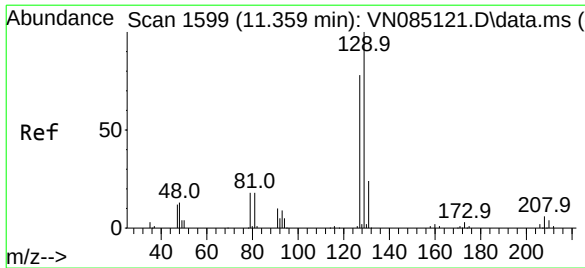
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#52
1,3-Dichloropropane
Concen: 20.232 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:	76	Resp:	65044
Ion	Ratio	Lower	Upper
76	100		
78	31.9	0.0	65.6





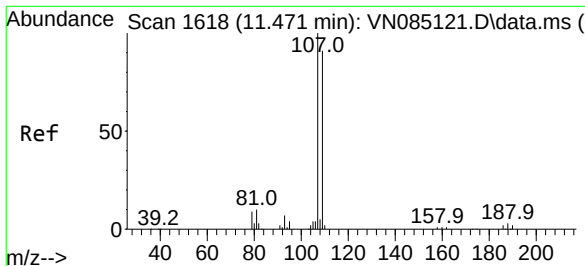
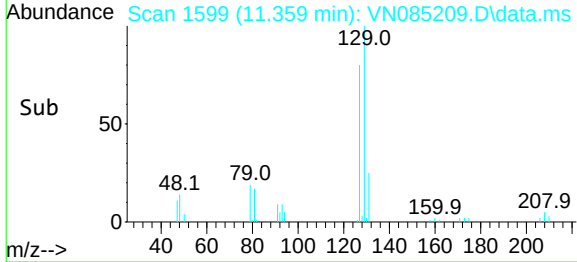
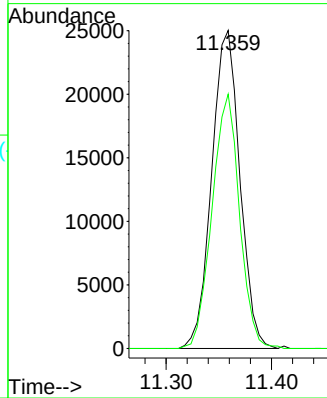
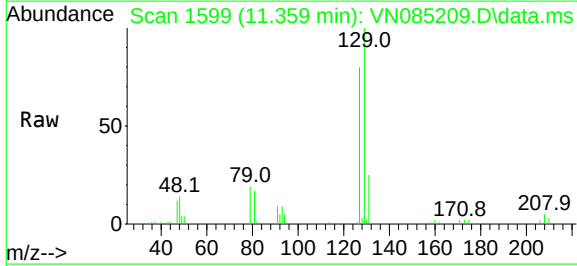
#53
Dibromochloromethane
Concen: 19.848 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:129 Resp: 46465
Ion Ratio Lower Upper
129 100
127 77.8 37.3 111.9

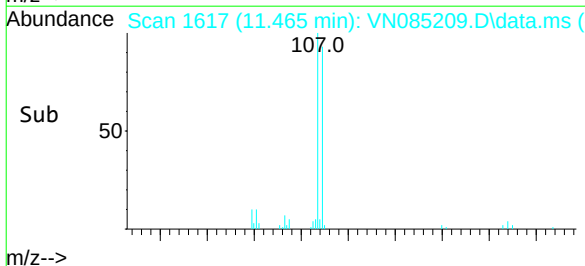
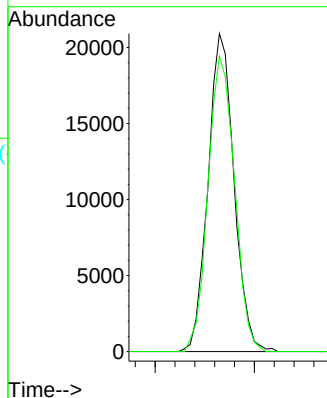
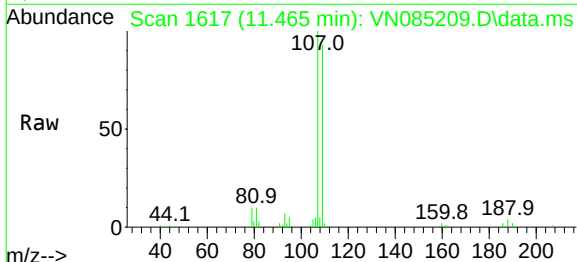
Manual Integrations
APPROVED

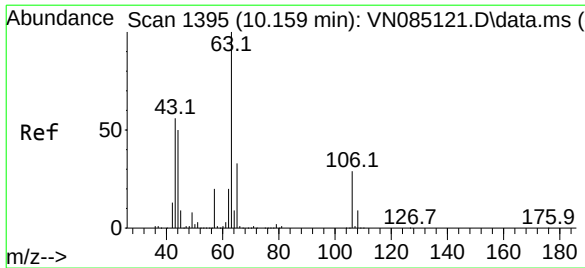
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#54
1,2-Dibromoethane
Concen: 19.669 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

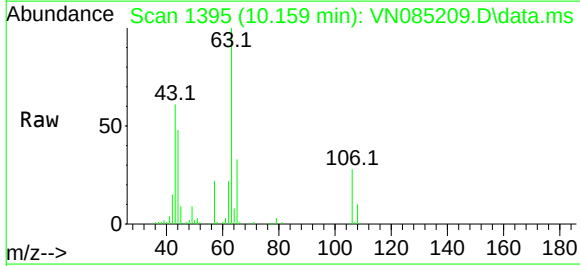
Tgt Ion:107 Resp: 38069
Ion Ratio Lower Upper
107 100
109 95.1 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 116.053 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

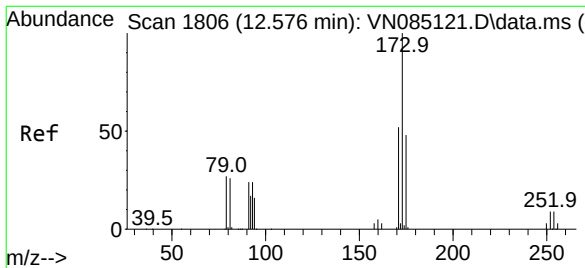
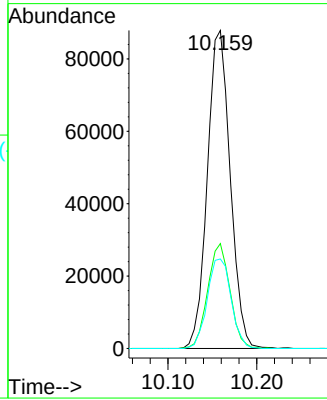
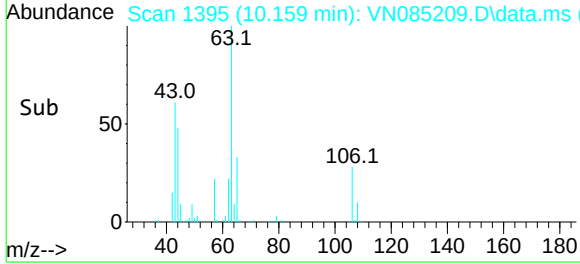
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



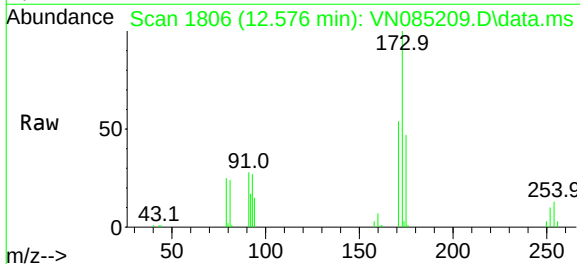
Tgt Ion: 63 Resp: 157517
Ion Ratio Lower Upper
63 100
65 32.0 25.9 38.9
106 29.3 23.5 35.3

Manual Integrations
APPROVED

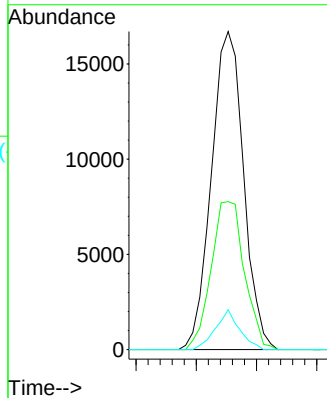
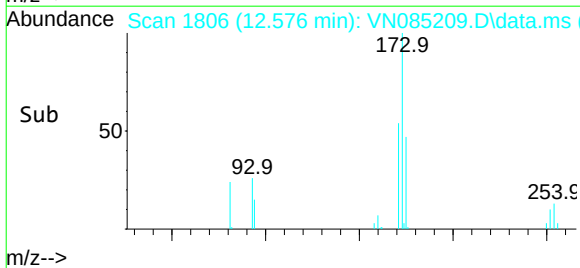
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

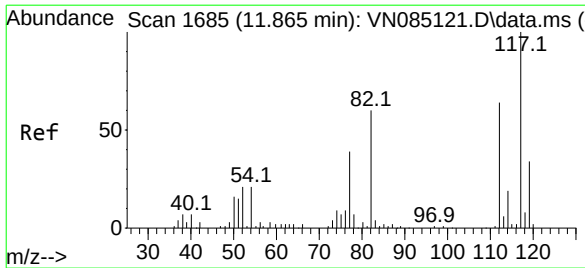


#56
Bromoform
Concen: 19.753 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



Tgt Ion:173 Resp: 31005
Ion Ratio Lower Upper
173 100
175 48.1 40.2 60.2
254 9.4 6.2 9.4#





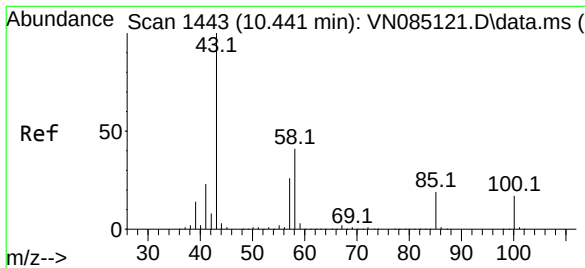
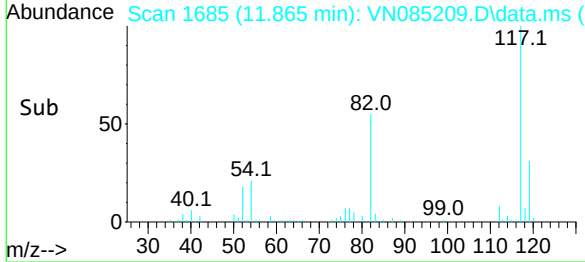
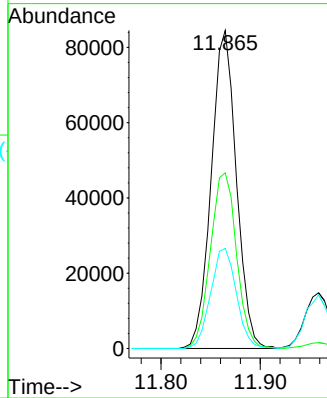
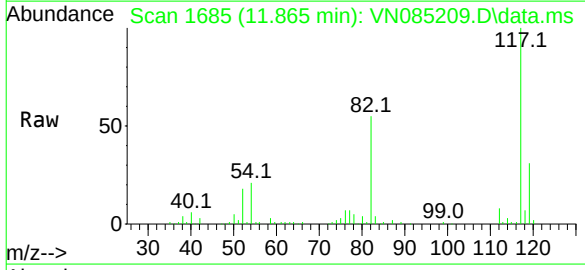
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:117 Resp: 148673
Ion Ratio Lower Upper
117 100
82 57.5 44.2 66.4
119 32.3 25.4 38.2

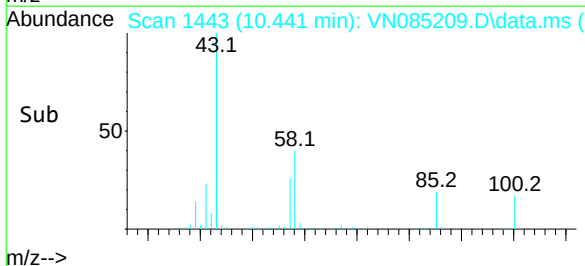
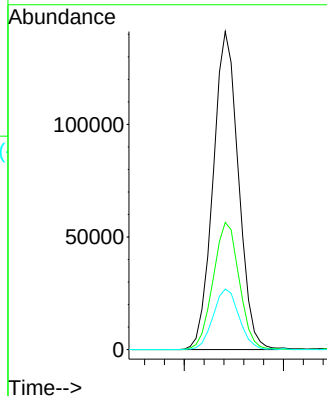
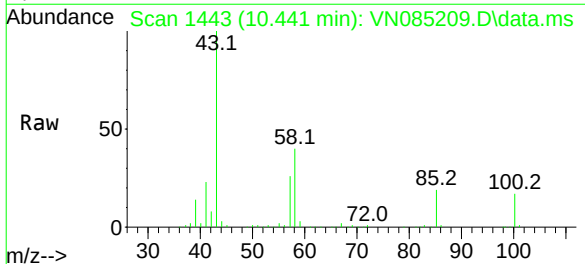
Manual Integrations
APPROVED

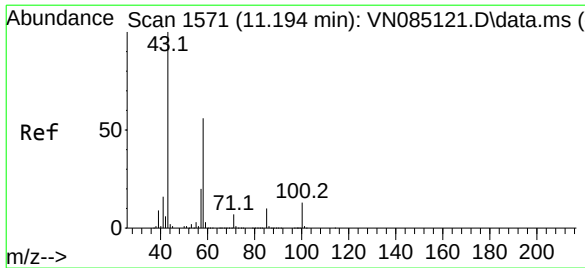
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#58
4-Methyl-2-Pentanone
Concen: 103.526 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

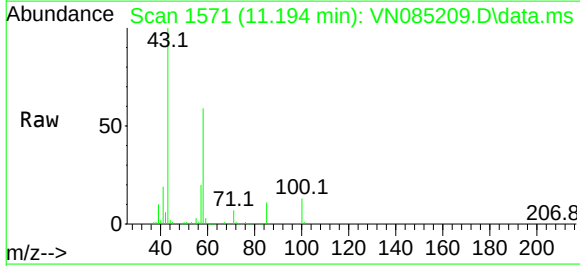
Tgt Ion: 43 Resp: 251194
Ion Ratio Lower Upper
43 100
58 41.2 31.6 47.4
85 19.4 15.0 22.6





#59
2-Hexanone
Concen: 103.278 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

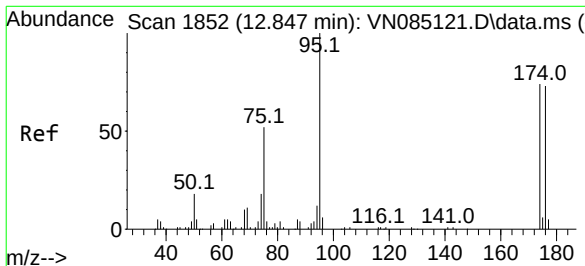
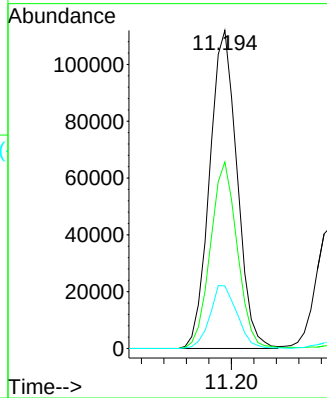
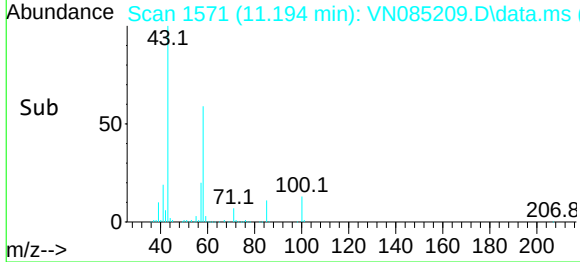
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



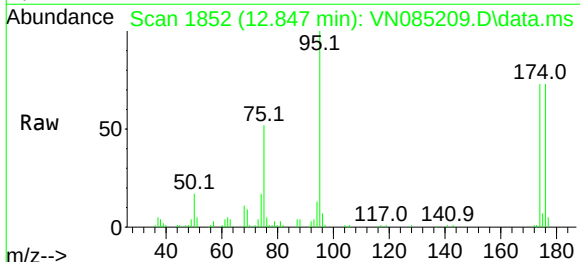
Tgt Ion: 43 Resp: 189877
Ion Ratio Lower Upper
43 100
58 57.1 43.6 65.4
57 19.6 15.4 23.0

Manual Integrations
APPROVED

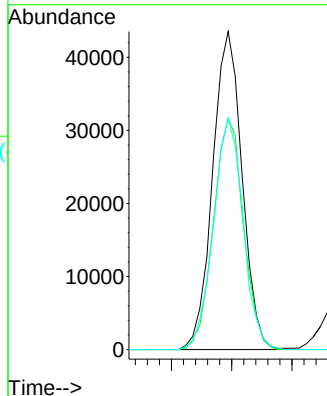
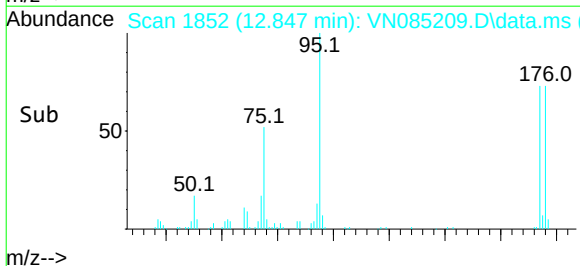
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024

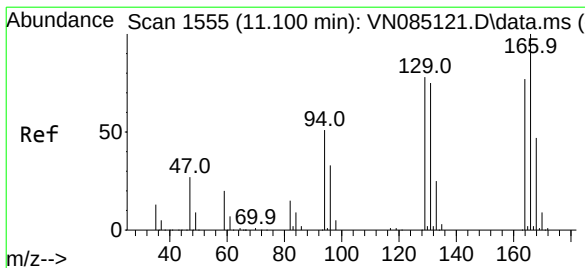


#60
4-Bromofluorobenzene
Concen: 30.022 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57



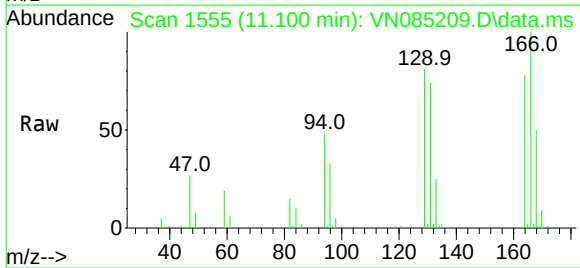
Tgt Ion: 95 Resp: 73852
Ion Ratio Lower Upper
95 100
174 74.1 60.3 90.5
176 73.5 57.4 86.0





#61
Tetrachloroethene
Concen: 19.837 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

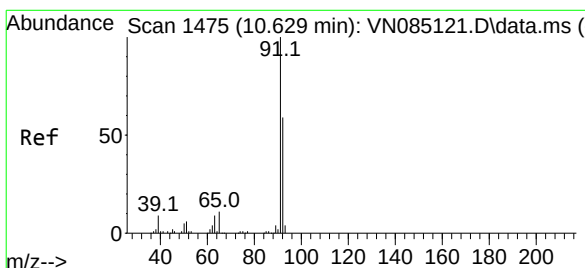
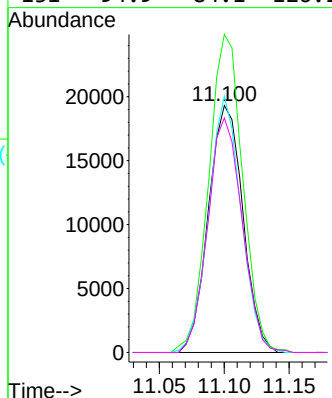
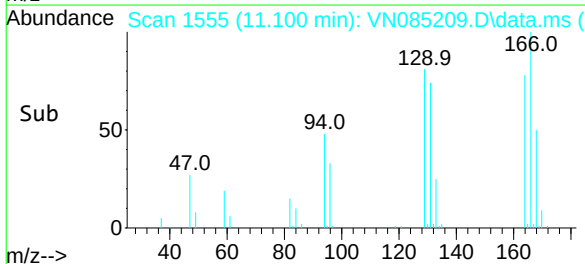
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



Tgt Ion: 164 Resp: 35715
Ion Ratio Lower Upper
164 100
166 127.5 103.8 155.8
129 102.9 84.2 126.4
131 94.9 84.1 126.1

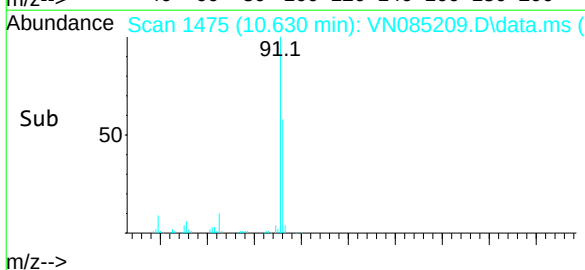
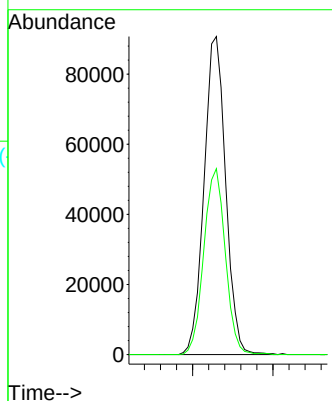
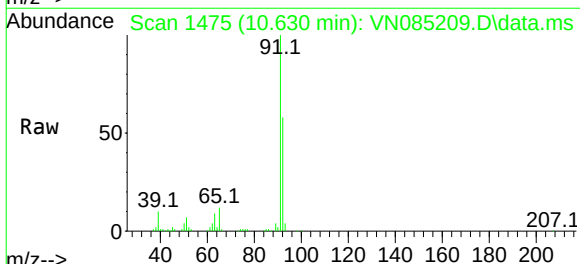
Manual Integrations
APPROVED

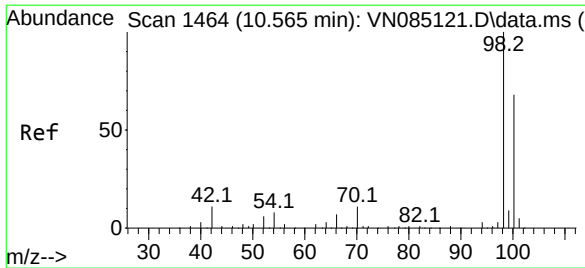
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#62
Toluene
Concen: 19.542 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 91 Resp: 169444
Ion Ratio Lower Upper
91 100
92 57.9 46.5 69.7





#63

Toluene-d8

Concen: 29.009 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

Tgt Ion: 98 Resp: 202306

Ion Ratio Lower Upper

98 100

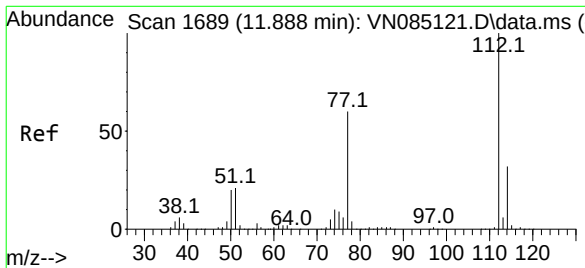
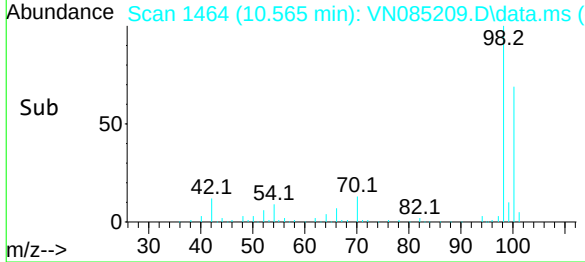
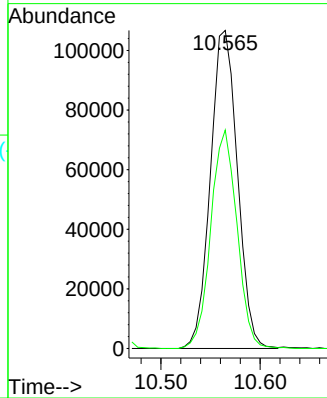
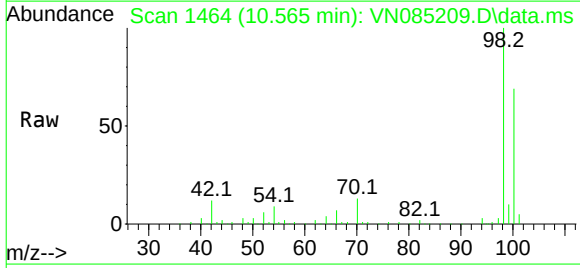
100 66.4 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#64

Chlorobenzene

Concen: 19.669 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085209.D

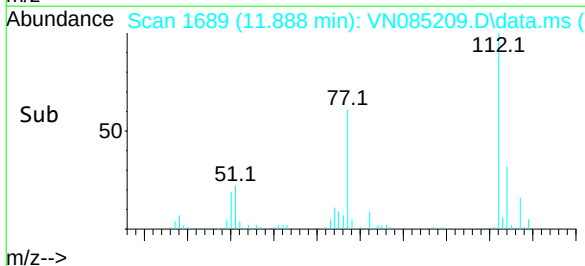
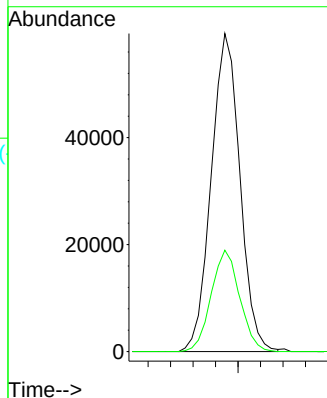
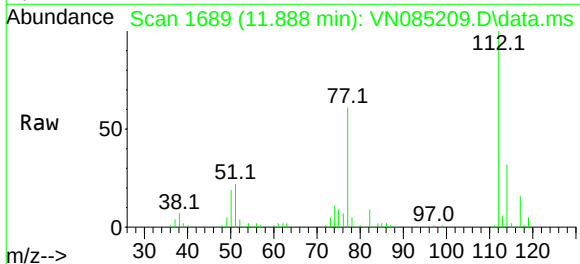
Acq: 16 Dec 2024 10:57

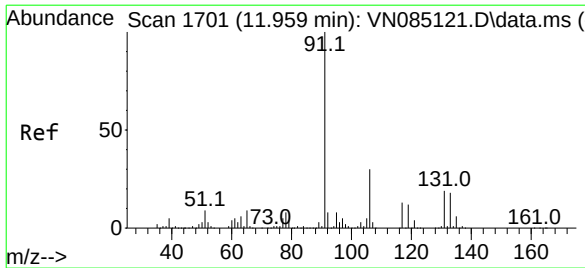
Tgt Ion:112 Resp: 105294

Ion Ratio Lower Upper

112 100

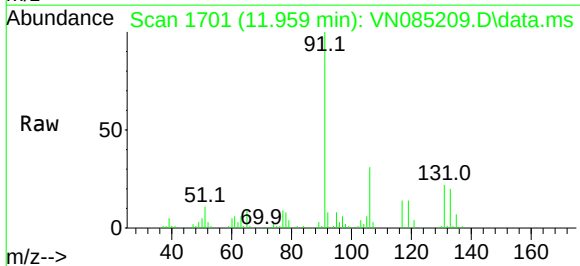
114 31.9 26.0 39.0





#65
1,1,1,2-Tetrachloroethane
Concen: 20.641 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

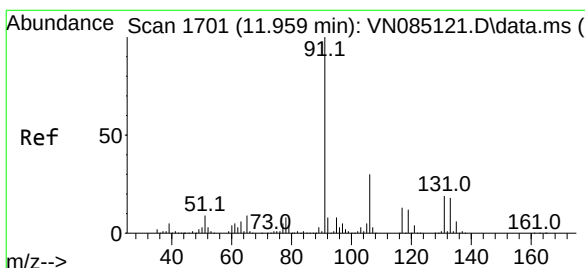
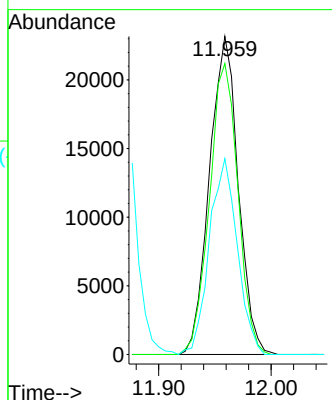
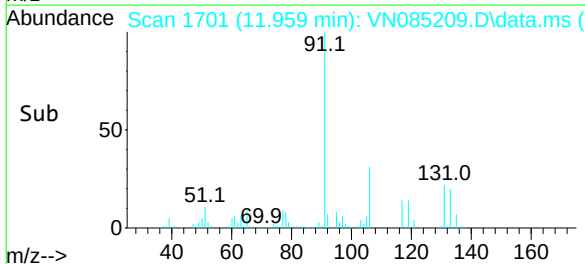
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



Tgt Ion: 131 Resp: 41250
Ion Ratio Lower Upper
131 100
133 90.4 0.0 194.0
119 59.8 0.0 131.8

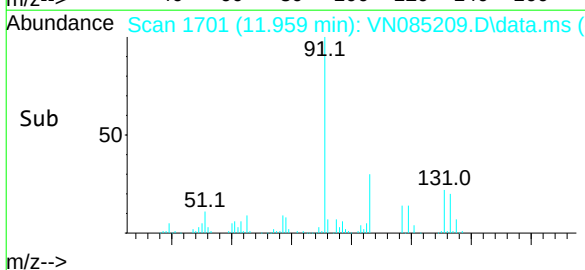
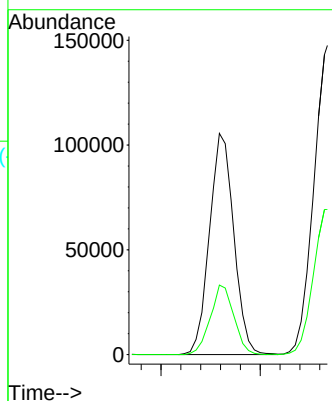
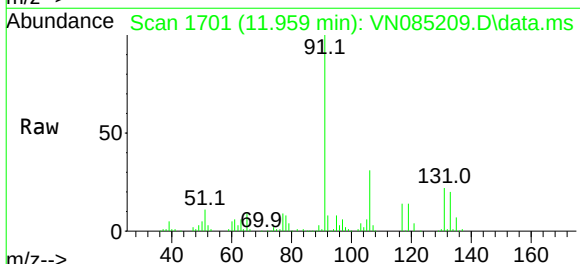
Manual Integrations
APPROVED

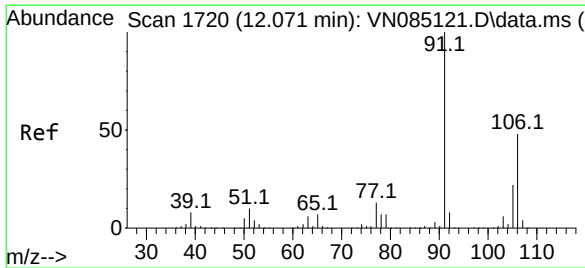
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#66
Ethyl Benzene
Concen: 19.592 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 91 Resp: 180260
Ion Ratio Lower Upper
91 100
106 31.4 23.1 34.7





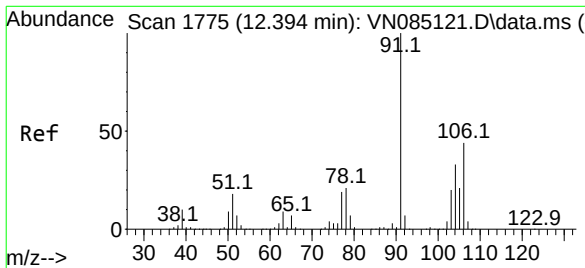
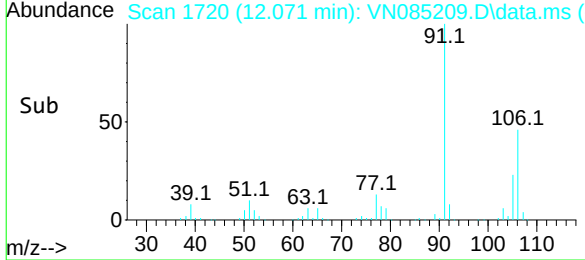
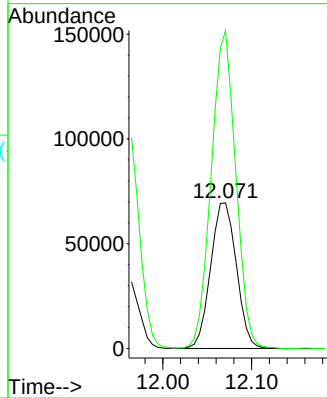
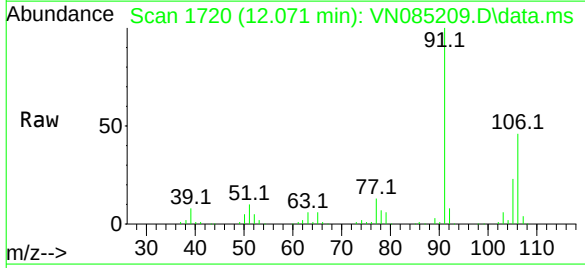
#67
m/p-Xylenes
Concen: 39.552 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:106 Resp: 139966
Ion Ratio Lower Upper
106 100
91 208.0 165.0 247.4

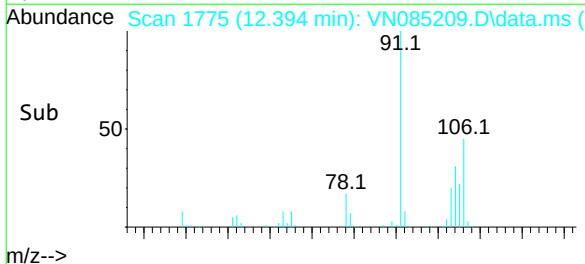
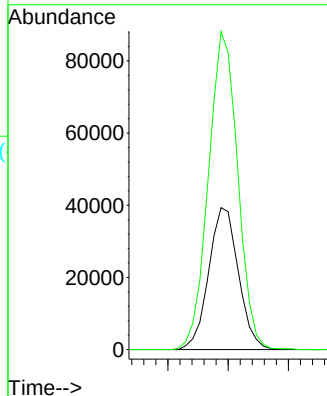
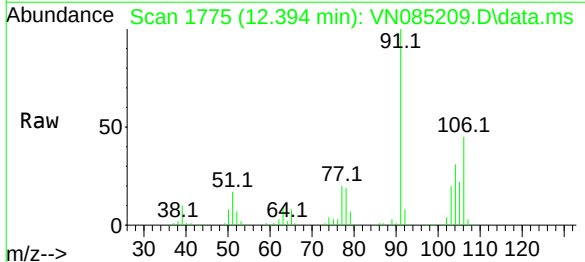
Manual Integrations
APPROVED

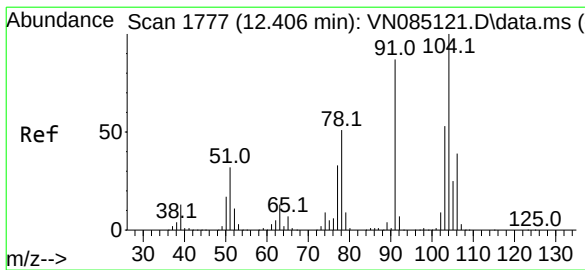
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#68
o-Xylene
Concen: 20.311 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:106 Resp: 67500
Ion Ratio Lower Upper
106 100
91 220.7 112.1 336.4





#69

Styrene

Concen: 20.099 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

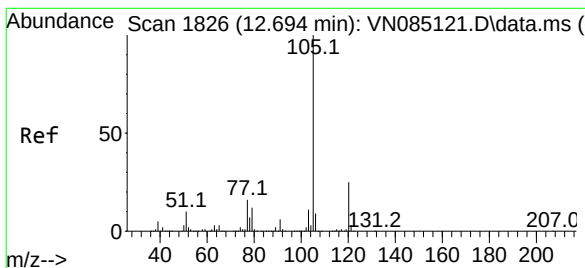
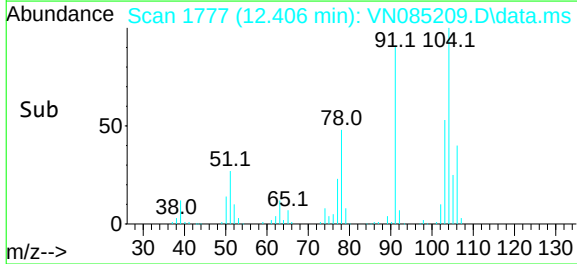
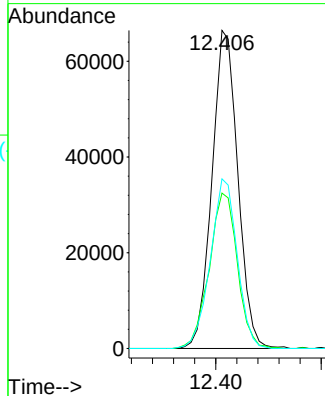
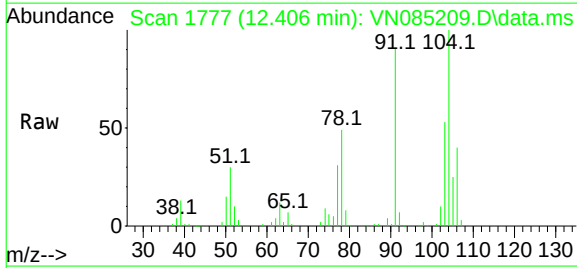
Tgt Ion:	104	Resp:	113349
Ion Ratio	Lower	Upper	
104	100		
78	53.1	42.3	63.5
103	55.3	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#70

Isopropylbenzene

Concen: 19.942 ug/l

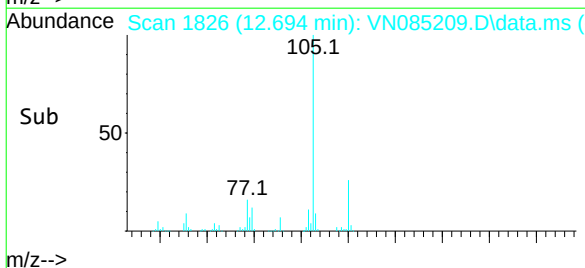
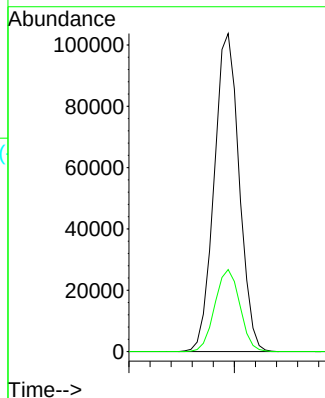
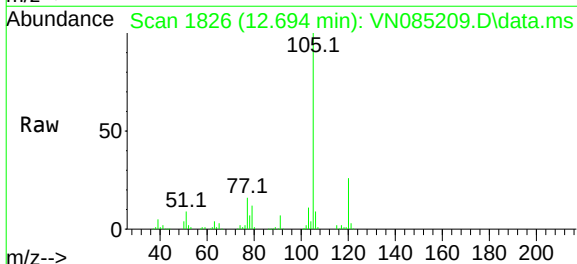
RT: 12.694 min Scan# 1826

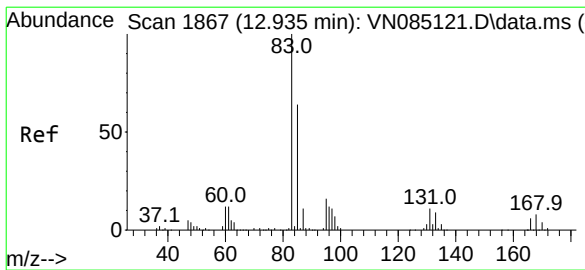
Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Tgt Ion:	105	Resp:	170936
Ion Ratio	Lower	Upper	
105	100		
120	25.8	18.3	33.9





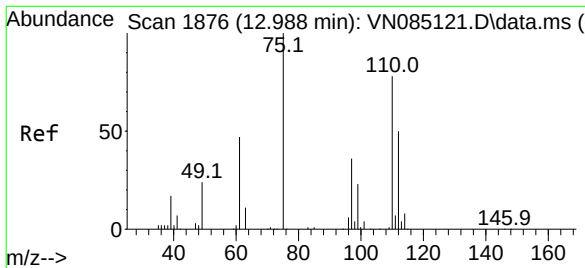
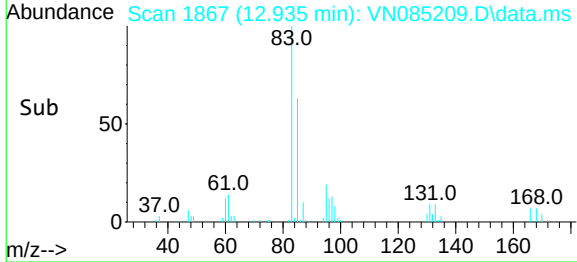
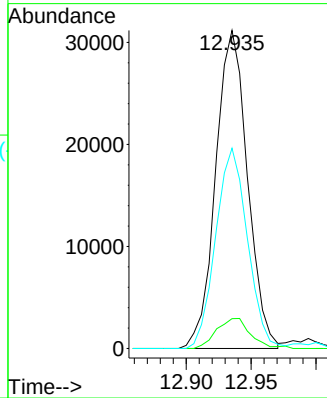
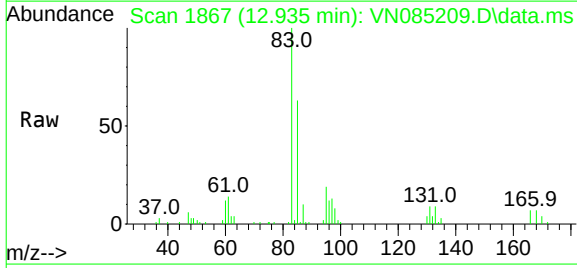
#71
1,1,2,2-Tetrachloroethane
Concen: 20.363 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion	83	Resp	53129
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.3
85	62.9	31.1	93.5

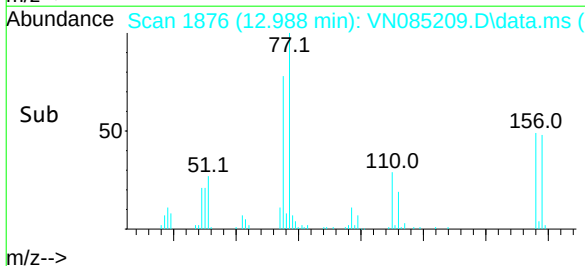
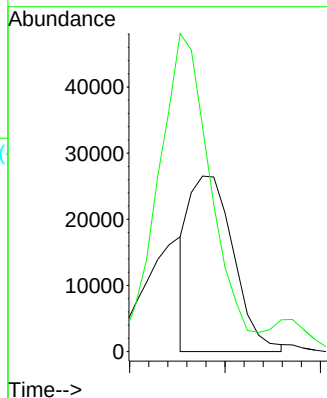
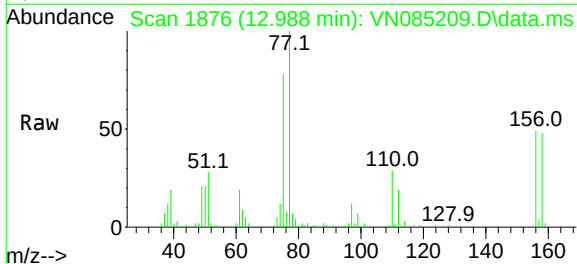
Manual Integrations
APPROVED

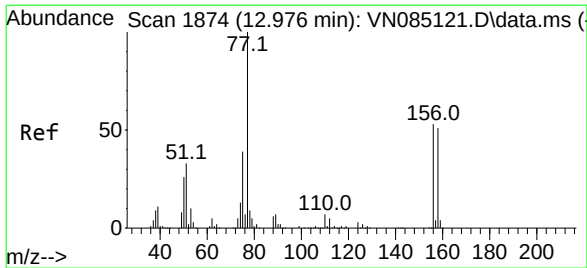
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#72
1,2,3-Trichloropropane
Concen: 16.657 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion	75	Resp	42929
Ion	Ratio	Lower	Upper
75	100		
77	216.3	0.0	339.0





#73

Bromobenzene

Concen: 20.050 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

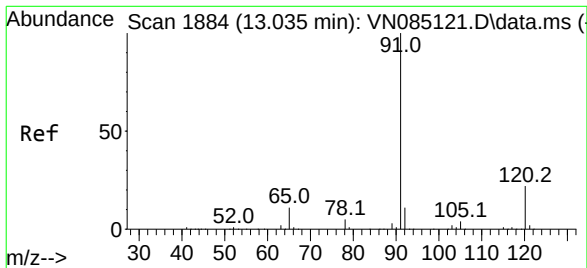
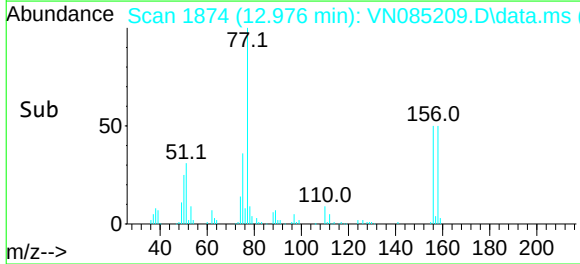
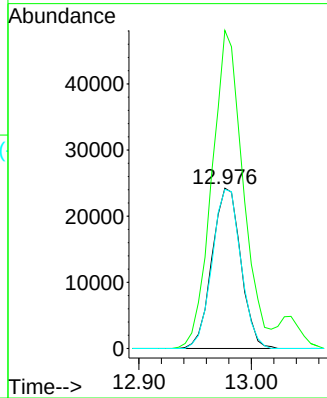
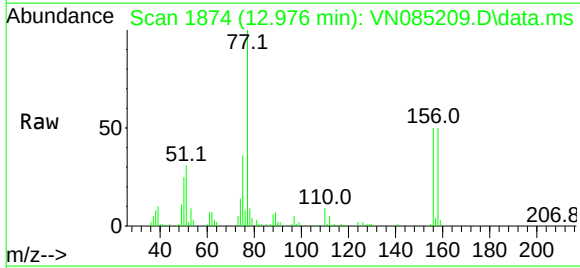
Tgt Ion:	156	Resp:	43049
Ion Ratio	Lower	Upper	
156	100		
77	215.7	0.0	430.4
158	98.8	0.0	195.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#74

n-propylbenzene

Concen: 19.157 ug/l

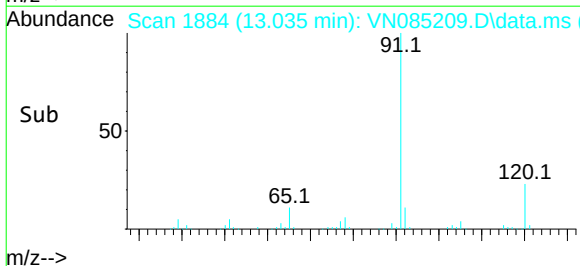
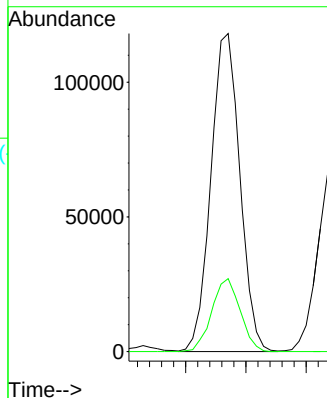
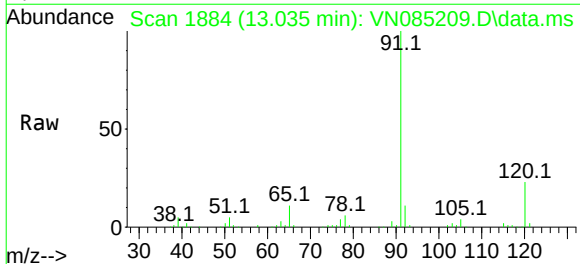
RT: 13.035 min Scan# 1884

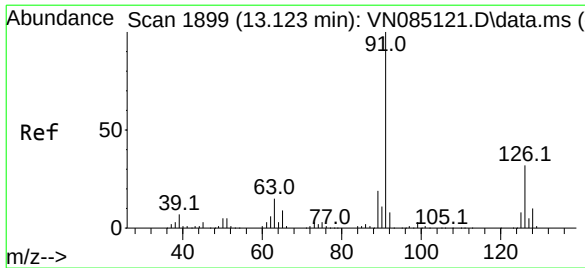
Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Tgt Ion:	91	Resp:	197415
Ion Ratio	Lower	Upper	
91	100		
120	22.4	0.0	44.0





#75

2-Chlorotoluene

Concen: 19.864 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

Tgt Ion: 91 Resp: 126567

Ion Ratio Lower Upper

91 100

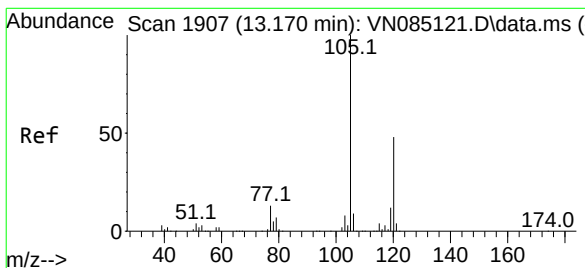
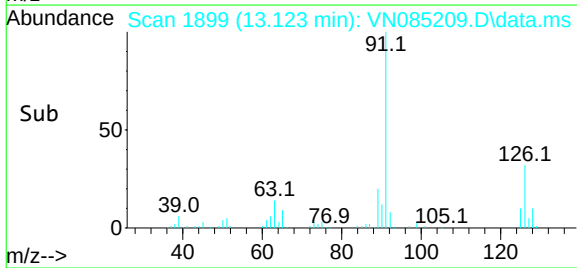
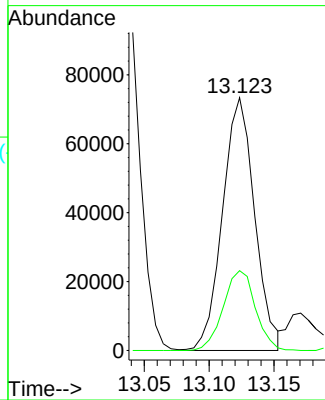
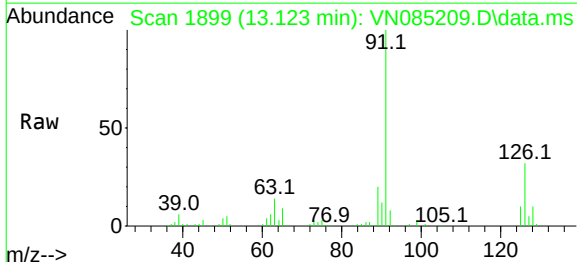
126 31.6 0.0 64.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#76

1,3,5-Trimethylbenzene

Concen: 19.583 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085209.D

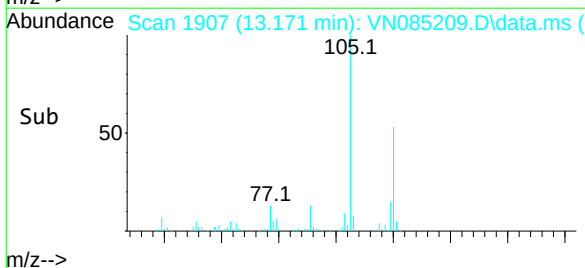
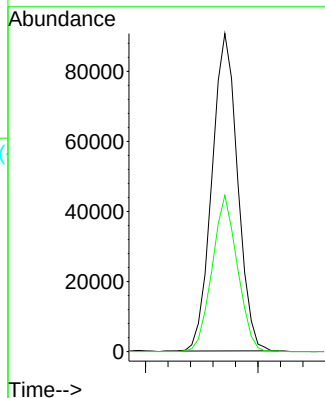
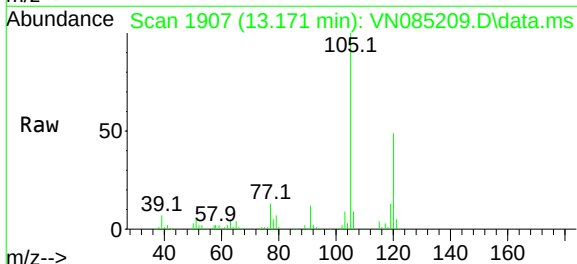
Acq: 16 Dec 2024 10:57

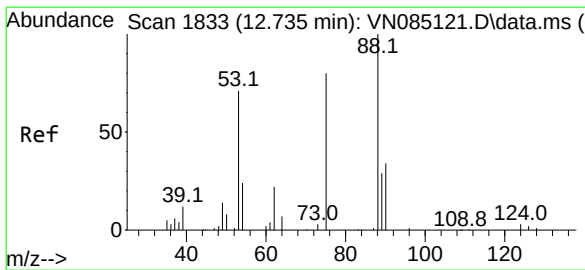
Tgt Ion:105 Resp: 143813

Ion Ratio Lower Upper

105 100

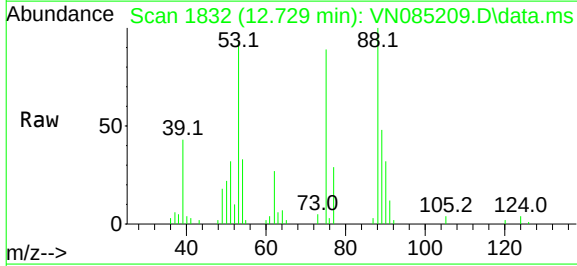
120 48.3 0.0 94.4





#77
t-1,4-Dichloro-2-butene
Concen: 20.358 ug/l
RT: 12.729 min Scan# 1833
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

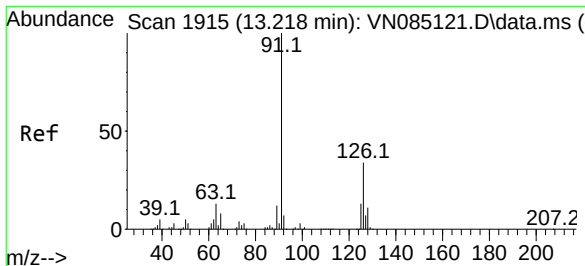
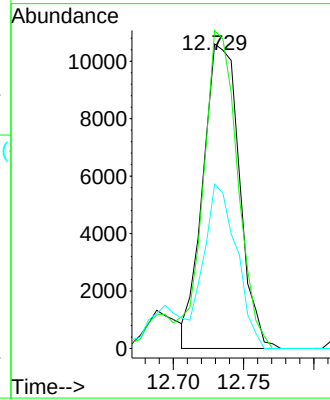
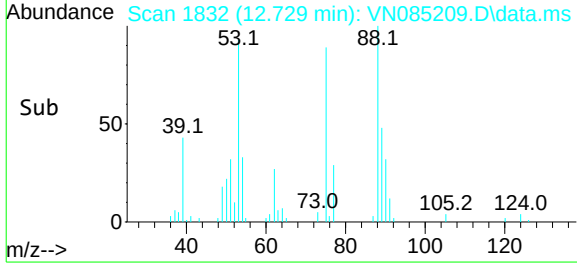
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01



Tgt Ion	Ratio	Lower	Upper
75	100		
53	104.4	49.1	147.3
89	54.0	22.9	68.5

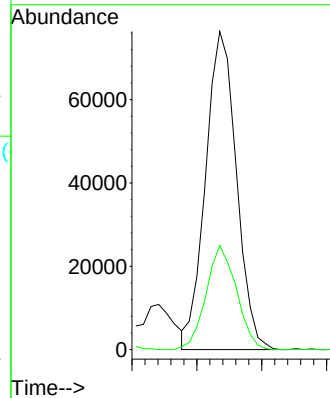
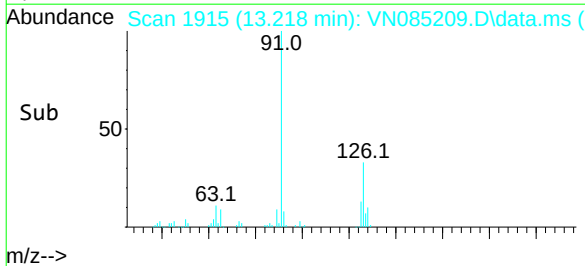
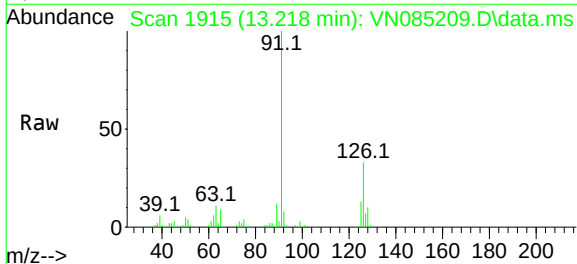
Manual Integrations
APPROVED

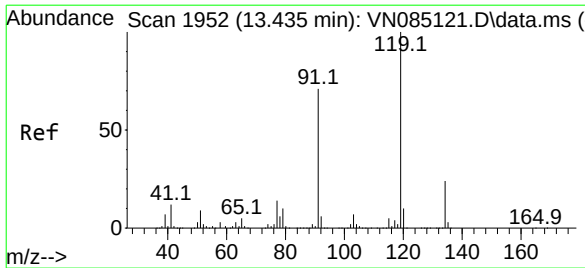
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#78
4-Chlorotoluene
Concen: 19.518 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.2	0.0	64.4





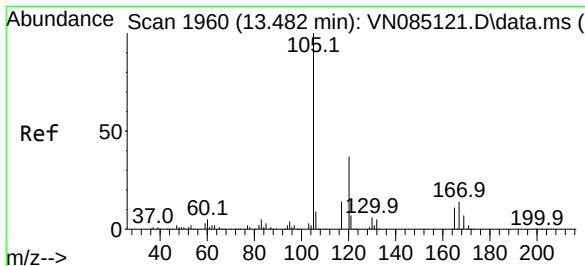
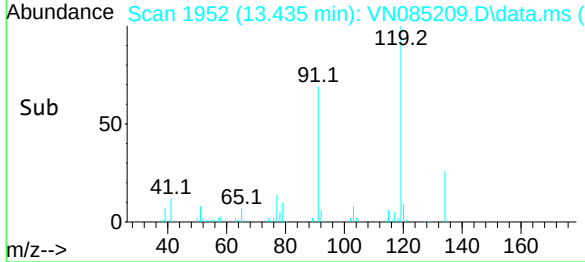
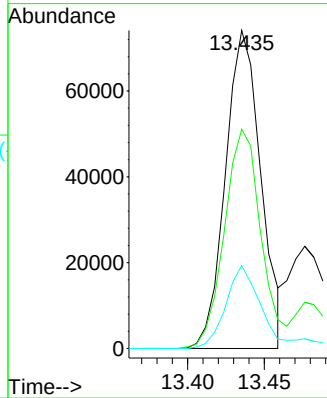
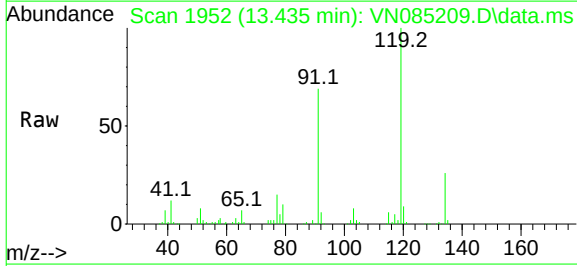
#79
tert-butylbenzene
Concen: 19.754 ug/l
RT: 13.435 min Scan# 19154
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:119 Resp: 119154
Ion Ratio Lower Upper
119 100
91 71.3 0.0 139.2
134 25.0 0.0 48.0

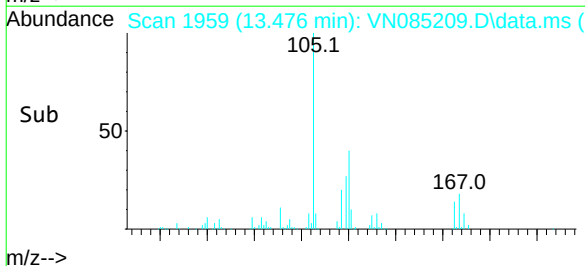
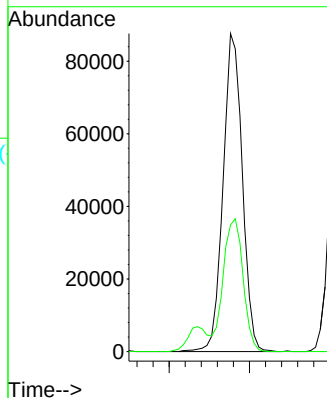
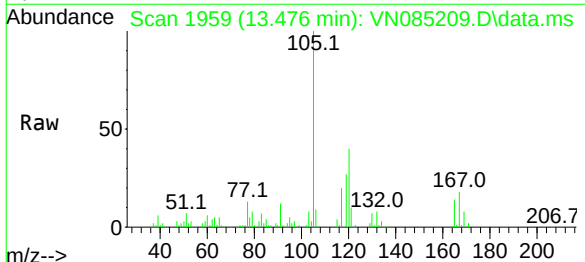
Manual Integrations
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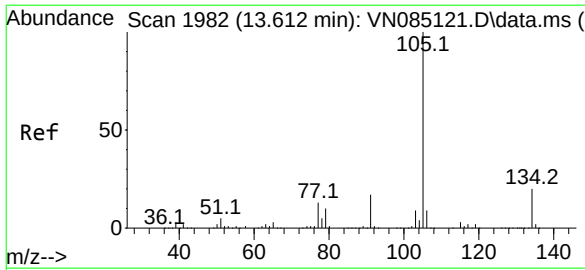
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#80
1,2,4-Trimethylbenzene
Concen: 20.096 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:105 Resp: 145777
Ion Ratio Lower Upper
105 100
120 42.9 0.0 87.4





#81

sec-Butylbenzene

Concen: 19.763 ug/l

RT: 13.618 min Scan# 19

Delta R.T. 0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

Tgt Ion:105 Resp: 169356

Ion Ratio Lower Upper

105 100

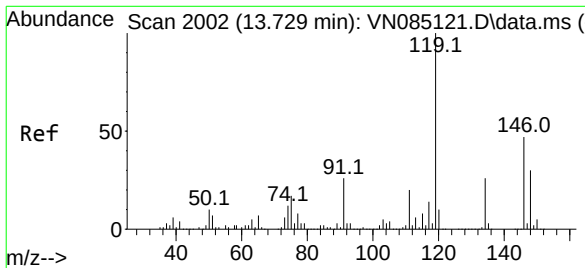
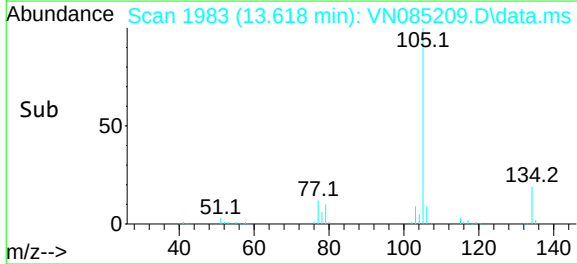
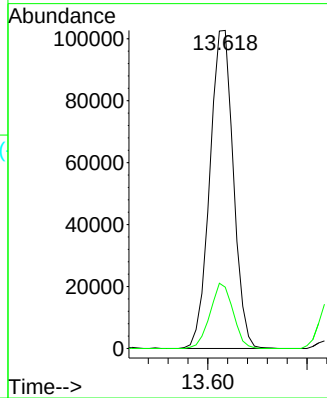
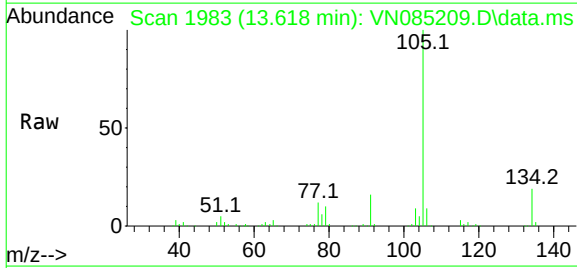
134 20.0 0.0 38.0

Manual Integrations

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Reviewed By :John Carlone 12/16/2024

Supervised By :Mahesh Dadoda 12/17/2024



#82

p-Isopropyltoluene

Concen: 19.813 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

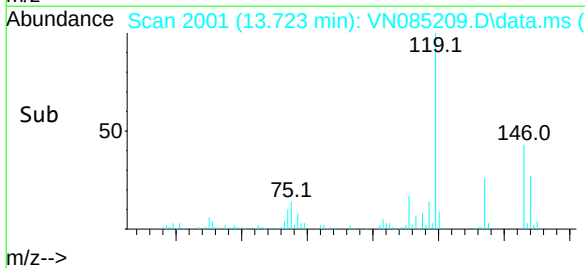
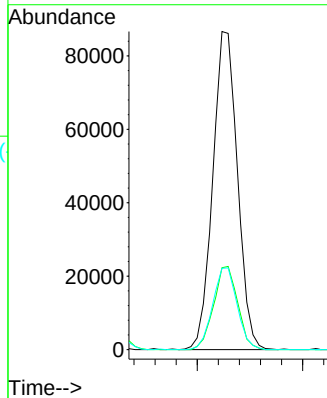
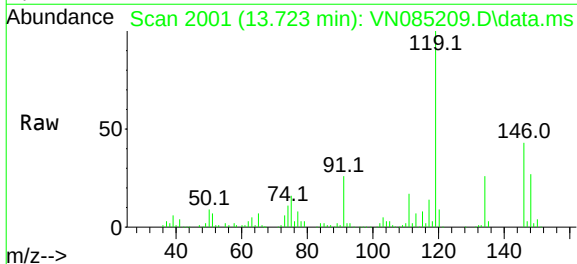
Tgt Ion:119 Resp: 140763

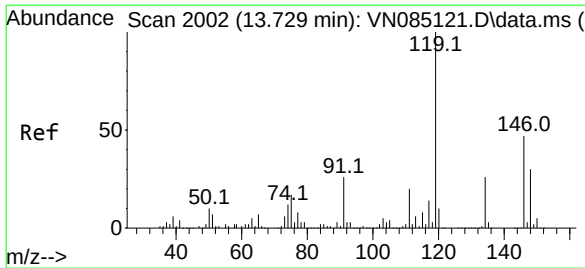
Ion Ratio Lower Upper

119 100

134 25.5 0.0 51.6

91 25.5 0.0 50.4





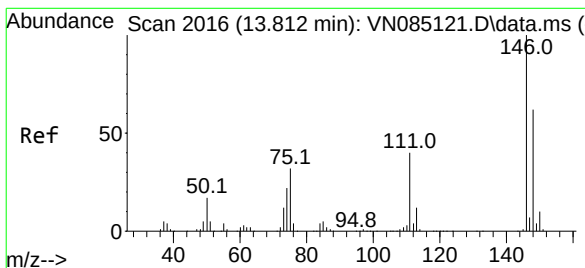
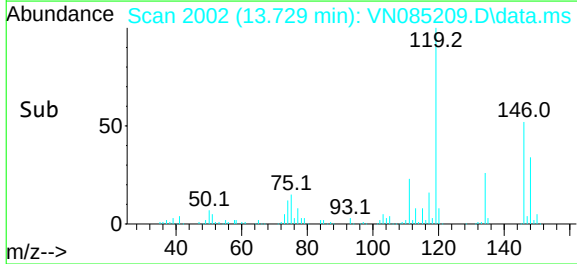
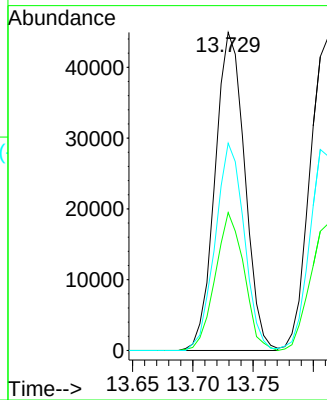
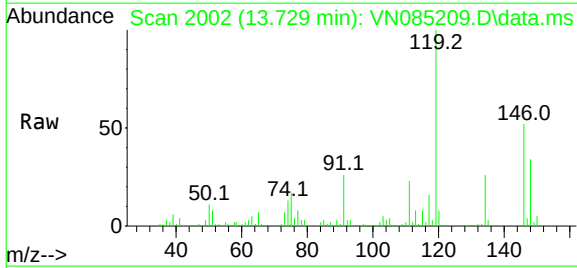
#83
1,3-Dichlorobenzene
Concen: 19.578 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:146 Resp: 77122
Ion Ratio Lower Upper
146 100
111 41.9 21.1 63.3
148 63.5 31.8 95.3

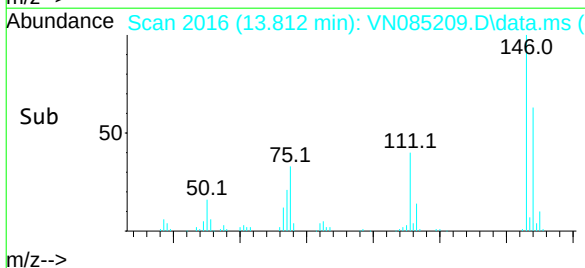
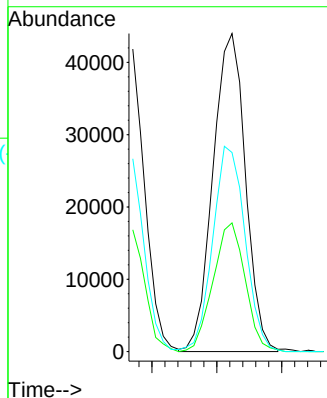
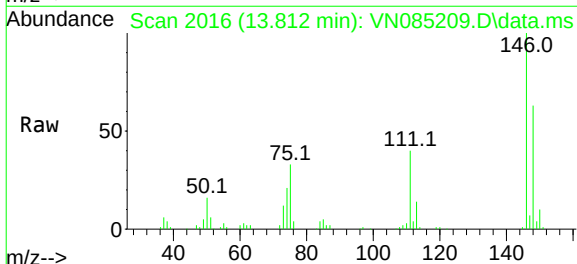
Manual Integrations
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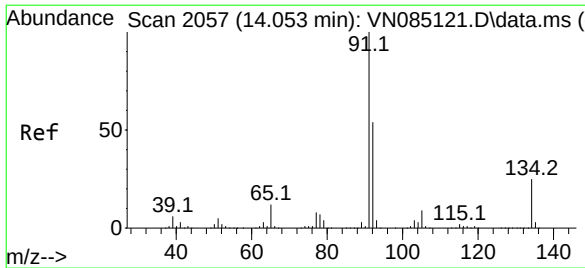
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#84
1,4-Dichlorobenzene
Concen: 19.952 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:146 Resp: 76595
Ion Ratio Lower Upper
146 100
111 39.9 20.1 60.3
148 64.3 31.6 94.7





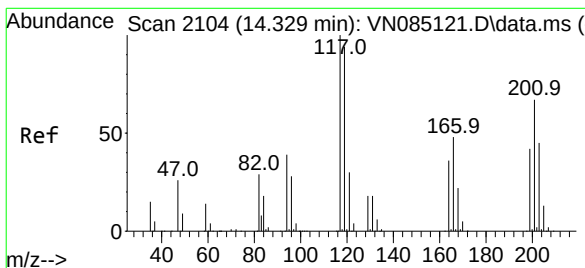
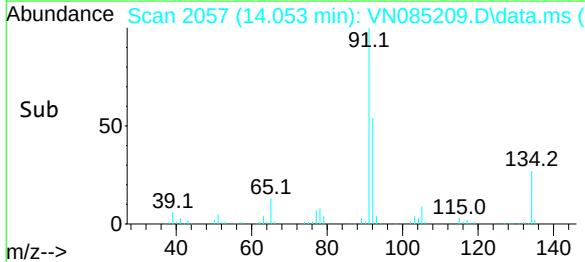
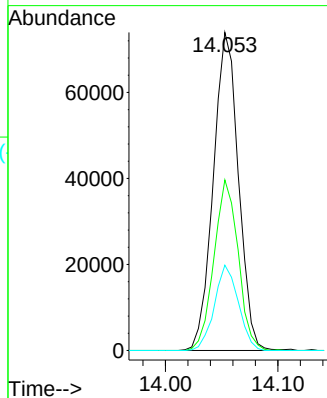
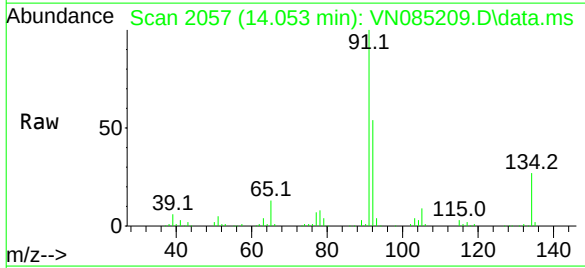
#85
n-Butylbenzene
Concen: 19.288 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion: 91 Resp: 114947
Ion Ratio Lower Upper
91 100
92 51.6 0.0 104.0
134 25.6 0.0 49.2

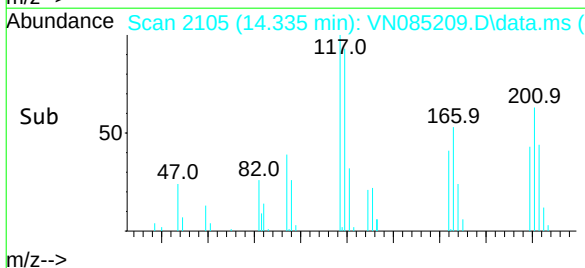
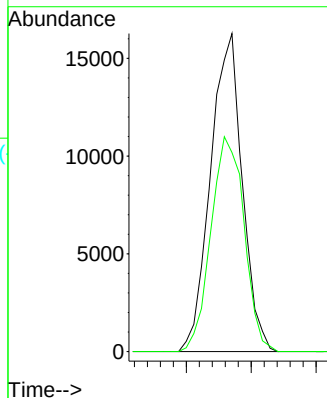
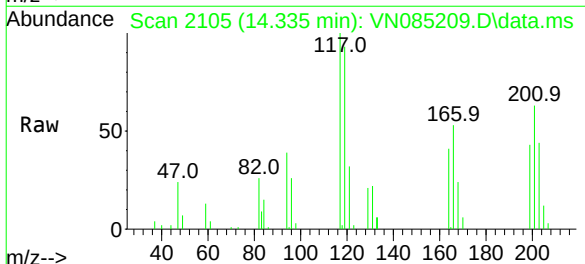
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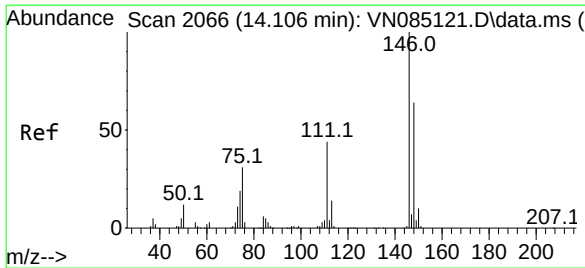
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#86
Hexachloroethane
Concen: 19.558 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:117 Resp: 27662
Ion Ratio Lower Upper
117 100
201 70.7 34.1 102.3





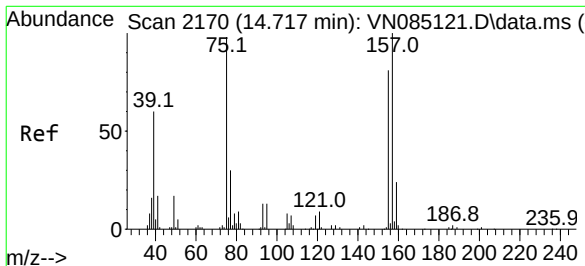
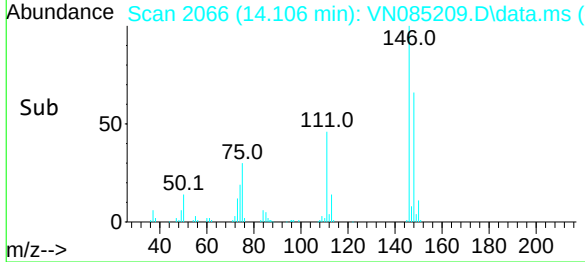
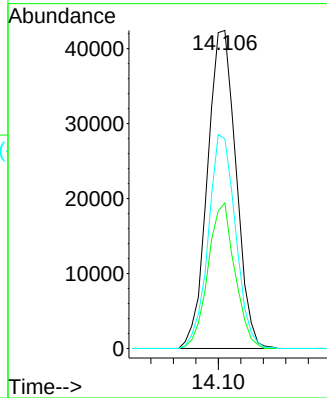
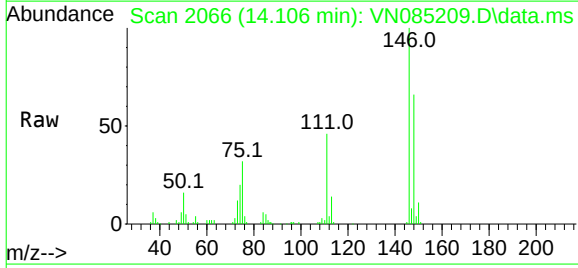
#87
1,2-Dichlorobenzene
Concen: 20.174 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:	146	Resp:	75009
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.9	65.7
148	64.2	32.4	97.0

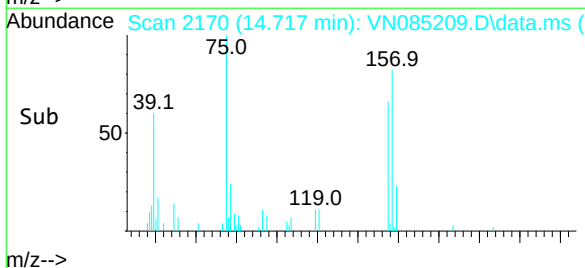
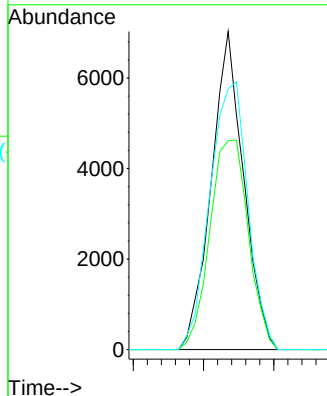
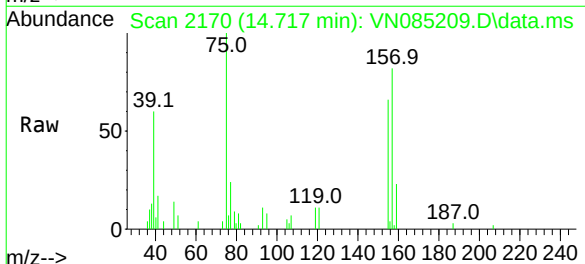
Manual Integrations
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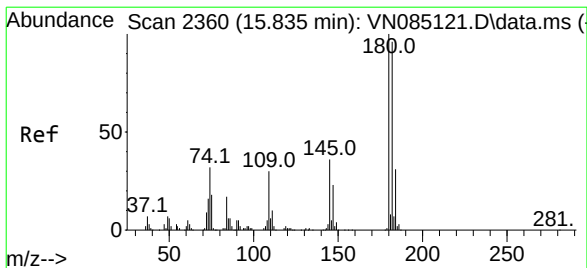
Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#88
1,2-Dibromo-3-Chloropropane
Concen: 21.598 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:	75	Resp:	11257
Ion	Ratio	Lower	Upper
75	100		
155	78.1	62.1	93.1
157	98.6	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 20.638 ug/l

RT: 15.841 min Scan# 2360

Delta R.T. 0.006 min

Lab File: VN085209.D

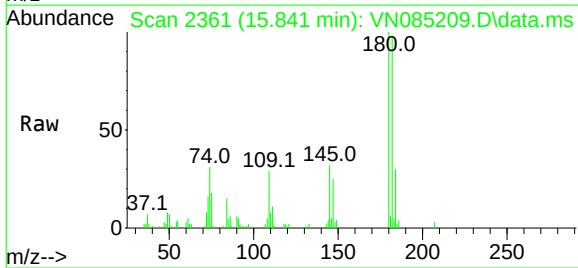
Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

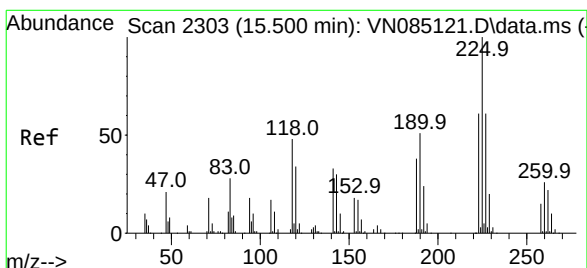
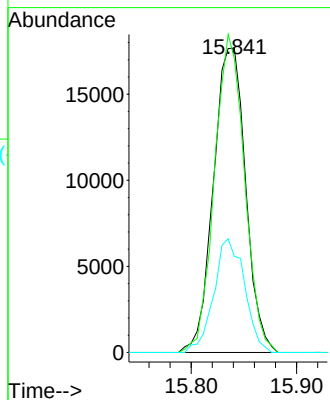
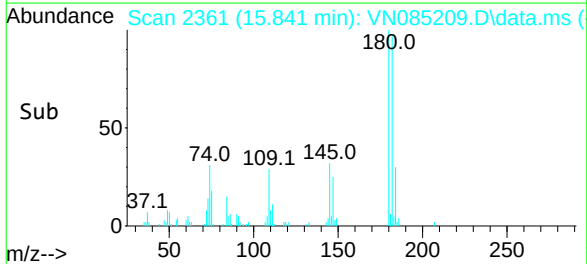
VN1216WBSD01



Tgt Ion:	180	Resp:	37581
Ion	Ratio	Lower	Upper
180	100		
182	97.2	74.0	111.0
145	35.6	28.6	43.0

Manual Integrations
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Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#90

Hexachlorobutadiene

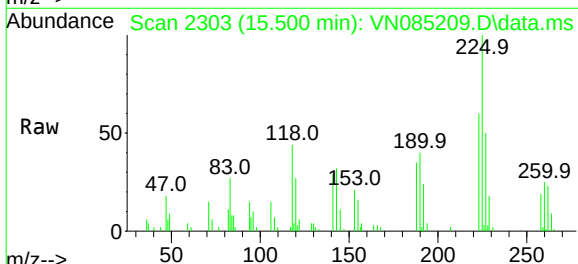
Concen: 20.647 ug/l

RT: 15.500 min Scan# 2303

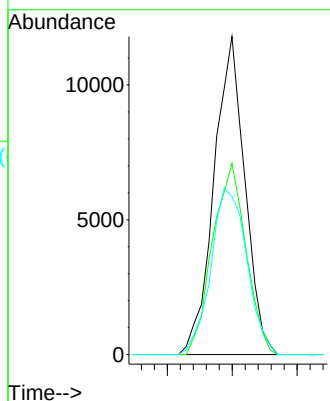
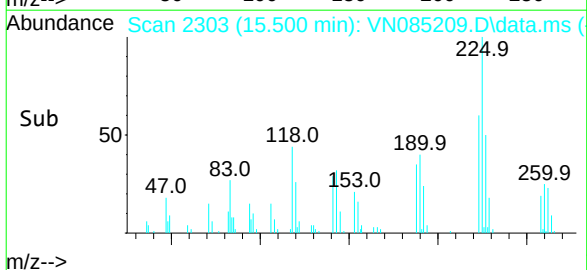
Delta R.T. 0.000 min

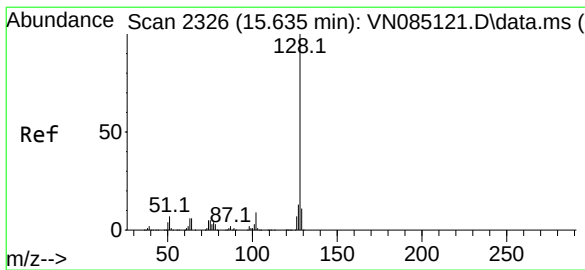
Lab File: VN085209.D

Acq: 16 Dec 2024 10:57



Tgt Ion:	225	Resp:	19537
Ion	Ratio	Lower	Upper
225	100		
223	65.0	0.0	121.8
227	60.8	0.0	126.8





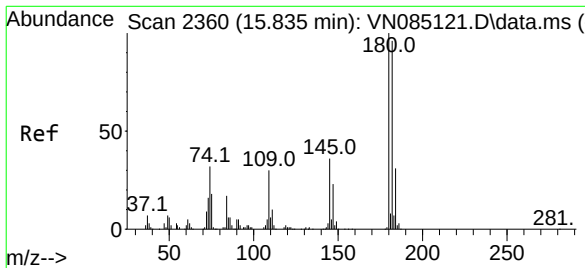
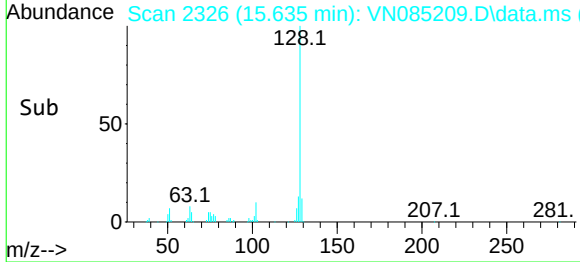
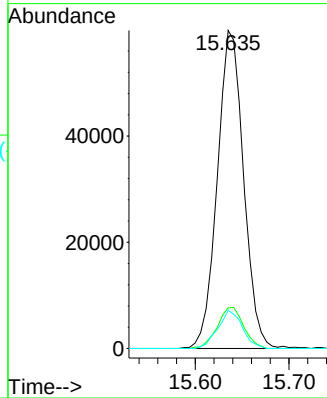
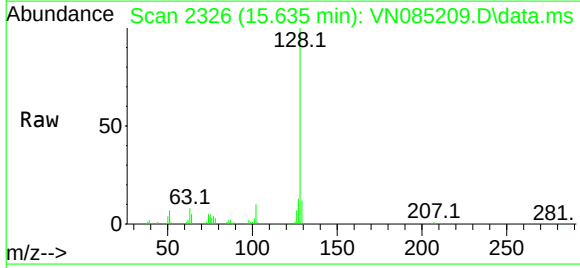
#91
Naphthalene
Concen: 20.616 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:	128	Resp:	116630
Ion Ratio	Lower	Upper	
128	100		
127	13.0	11.0	16.4
129	11.2	8.7	13.1

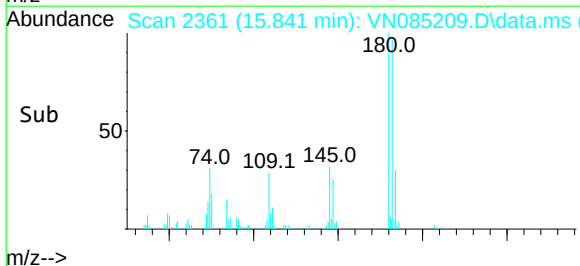
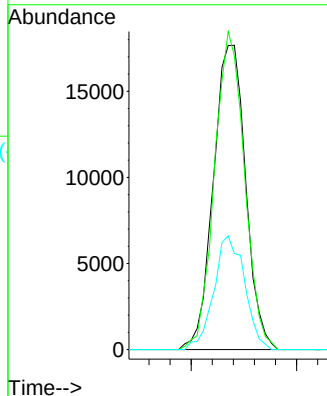
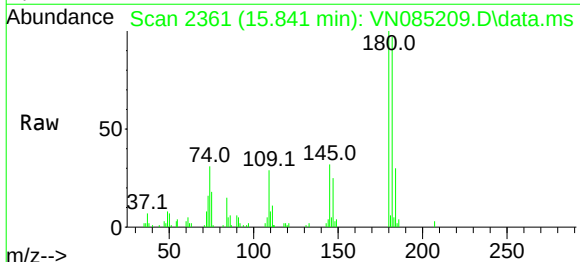
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/16/2024
Supervised By :Mahesh Dadoda 12/17/2024



#92
1,2,3-Trichlorobenzene
Concen: 20.638 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:	180	Resp:	37581
Ion Ratio	Lower	Upper	
180	100		
182	97.2	0.0	185.0
145	35.6	0.0	71.6



Manual Integration Report

Sequence:	VN120624	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VN085117.D	1,1,2-Trichlorotrifluoroethane	MMDadoda	12/9/2024 8:33:19 AM	SAM	12/9/2024 8:36:08 AM	Peak Integrated by Software
VSTDIC005	VN085117.D	1,2,3-Trichloropropane	MMDadoda	12/9/2024 8:33:19 AM	SAM	12/9/2024 8:36:08 AM	Peak Integrated by Software
VSTDIC005	VN085117.D	Acrylonitrile	MMDadoda	12/9/2024 8:33:19 AM	SAM	12/9/2024 8:36:08 AM	Peak Integrated by Software
VSTDIC005	VN085117.D	Diisopropyl ether	MMDadoda	12/9/2024 8:33:19 AM	SAM	12/9/2024 8:36:08 AM	Peak Integrated by Software
VSTDIC005	VN085117.D	Methyl Iodide	MMDadoda	12/9/2024 8:33:19 AM	SAM	12/9/2024 8:36:08 AM	Peak Integrated by Software
VSTDIC005	VN085117.D	tert-Butyl Alcohol	MMDadoda	12/9/2024 8:33:19 AM	SAM	12/9/2024 8:36:08 AM	Peak Integrated by Software
VSTDICCC020	VN085118.D	1,2,3-Trichloropropane	MMDadoda	12/9/2024 8:33:21 AM	SAM	12/9/2024 8:36:06 AM	Peak Integrated by Software
VSTDIC050	VN085119.D	1,2,3-Trichloropropane	MMDadoda	12/9/2024 8:33:23 AM	SAM	12/9/2024 8:36:04 AM	Peak Integrated by Software
VSTDIC100	VN085120.D	1,2,3-Trichloropropane	MMDadoda	12/9/2024 8:33:25 AM	SAM	12/9/2024 8:36:00 AM	Peak Integrated by Software
VSTDIC150	VN085121.D	1,2,3-Trichloropropane	MMDadoda	12/9/2024 8:33:26 AM	SAM	12/9/2024 8:35:58 AM	Peak Integrated by Software
VSTDIC150	VN085121.D	Methyl tert-Butyl Ether	MMDadoda	12/9/2024 8:33:26 AM	SAM	12/9/2024 8:35:58 AM	Peak Integrated by Software
VSTDICV020	VN085123.D	1,2,3-Trichloropropane	MMDadoda	12/9/2024 8:33:28 AM	SAM	12/9/2024 8:35:57 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VN120624

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VN121624	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN085207.D	1,2,3-Trichloropropane	JOHN	12/16/2024 12:40:49 PM	MMDadoda	12/17/2024 8:45:02 AM	Peak Integrated by Software
VN1216WBS01	VN085208.D	1,2,3-Trichloropropane	JOHN	12/16/2024 12:40:53 PM	MMDadoda	12/17/2024 8:45:05 AM	Peak Integrated by Software
VN1216WBSD0 1	VN085209.D	1,2,3-Trichloropropane	JOHN	12/16/2024 12:40:58 PM	MMDadoda	12/17/2024 8:45:05 AM	Peak Integrated by Software
VSTDCCC020	VN085216.D	1,2,3-Trichloropropane	MMDadoda	12/17/2024 8:45:07 AM	SAM	12/17/2024 8:46:45 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN120624

Review By	Mahesh Dadoda	Review On	12/9/2024 8:33:44 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/9/2024 8:36:31 AM
SubDirectory	VN120624	HP Acquire Method	HP Processing Method 624N120624W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP131993		
Initial Calibration Stds	VP131999,VP132000,VP132001,VP132002,VP132003		
CCC	VP131995		
Internal Standard/PEM			
ICV/I.BLK	VP132004		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085116.D	06 Dec 2024 08:14	JC\MD	Ok
2	VSTDICC005	VN085117.D	06 Dec 2024 10:02	JC\MD	Ok,M
3	VSTDICCC020	VN085118.D	06 Dec 2024 10:26	JC\MD	Ok,M
4	VSTDICC050	VN085119.D	06 Dec 2024 10:49	JC\MD	Ok,M
5	VSTDICC100	VN085120.D	06 Dec 2024 11:13	JC\MD	Ok,M
6	VSTDICC150	VN085121.D	06 Dec 2024 11:37	JC\MD	Ok,M
7	IBLK	VN085122.D	06 Dec 2024 12:01	JC\MD	Ok
8	VSTDICV020	VN085123.D	06 Dec 2024 12:28	JC\MD	Ok,M
9	VN1206WBS01	VN085124.D	06 Dec 2024 13:42	JC\MD	Ok,M
10	VN1206WBSD01	VN085125.D	06 Dec 2024 14:16	JC\MD	Ok,M
11	VN1206WBL01	VN085126.D	06 Dec 2024 14:40	JC\MD	Ok
12	P5051-01	VN085127.D	06 Dec 2024 15:15	JC\MD	Ok
13	P5051-02	VN085128.D	06 Dec 2024 15:39	JC\MD	Ok
14	P5051-03	VN085129.D	06 Dec 2024 16:03	JC\MD	Ok
15	P5051-04	VN085130.D	06 Dec 2024 16:27	JC\MD	Ok
16	P5068-01	VN085131.D	06 Dec 2024 16:51	JC\MD	Ok
17	P5068-02	VN085132.D	06 Dec 2024 17:15	JC\MD	Ok
18	P5068-03	VN085133.D	06 Dec 2024 17:39	JC\MD	Ok
19	P5068-04	VN085134.D	06 Dec 2024 18:03	JC\MD	Ok,M
20	P5139-01	VN085135.D	06 Dec 2024 18:27	JC\MD	Ok
21	P5139-02	VN085136.D	06 Dec 2024 18:51	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120624

Review By	Maresh Dadoda	Review On	12/9/2024 8:33:44 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/9/2024 8:36:31 AM
SubDirectory	VN120624	HP Acquire Method	HP Processing Method 624N120624W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP131993		
Initial Calibration Stds	VP131999,VP132000,VP132001,VP132002,VP132003		
CCC	VP131995		
Internal Standard/PEM			
ICV/I.BLK	VP132004		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P5044-01	VN085137.D	06 Dec 2024 19:15	JC\MD	Ok,M
23	P5044-02	VN085138.D	06 Dec 2024 19:39	JC\MD	Ok
24	P5192-01	VN085139.D	06 Dec 2024 20:03	JC\MD	Ok

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN121624

Review By	Mahesh Dadoda	Review On	12/17/2024 8:45:42 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/17/2024 8:46:46 AM
SubDirectory	VN121624	HP Acquire Method	HP Processing Method 624N120624W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132153		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132154,VP132155		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085206.D	16 Dec 2024 08:58	JC\MD	Ok
2	VSTDCCC020	VN085207.D	16 Dec 2024 09:42	JC\MD	Ok,M
3	VN1216WBS01	VN085208.D	16 Dec 2024 10:19	JC\MD	Ok,M
4	VN1216WBSD01	VN085209.D	16 Dec 2024 10:57	JC\MD	Ok,M
5	VN1216WBL01	VN085210.D	16 Dec 2024 11:21	JC\MD	Ok
6	P5276-03	VN085211.D	16 Dec 2024 11:57	JC\MD	Ok
7	P5276-04	VN085212.D	16 Dec 2024 12:21	JC\MD	Ok
8	IBLK	VN085213.D	16 Dec 2024 12:45	JC\MD	Ok
9	P5283-01	VN085214.D	16 Dec 2024 13:09	JC\MD	Ok
10	P5283-02	VN085215.D	16 Dec 2024 13:33	JC\MD	Ok
11	VSTDCCC020	VN085216.D	16 Dec 2024 16:33	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120624

Review By	Mahesh Dadoda	Review On	12/9/2024 8:33:44 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/9/2024 8:36:31 AM
SubDirectory	VN120624	HP Acquire Method	HP Processing Method 624N120624W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131993
Initial Calibration Stds	VP131999,VP132000,VP132001,VP132002,VP132003
CCC	VP131995
Internal Standard/PEM	
ICV/I.BLK	VP132004
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085116.D	06 Dec 2024 08:14		JC\MD	Ok
2	VSTDIC005	VSTDIC005	VN085117.D	06 Dec 2024 10:02	V13516	JC\MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VN085118.D	06 Dec 2024 10:26		JC\MD	Ok,M
4	VSTDIC050	VSTDIC050	VN085119.D	06 Dec 2024 10:49		JC\MD	Ok,M
5	VSTDIC100	VSTDIC100	VN085120.D	06 Dec 2024 11:13		JC\MD	Ok,M
6	VSTDIC150	VSTDIC150	VN085121.D	06 Dec 2024 11:37		JC\MD	Ok,M
7	IBLK	IBLK	VN085122.D	06 Dec 2024 12:01		JC\MD	Ok
8	VSTDICV020	ICVVN120624	VN085123.D	06 Dec 2024 12:28		JC\MD	Ok,M
9	VN1206WBS01	VN1206WBS01	VN085124.D	06 Dec 2024 13:42		JC\MD	Ok,M
10	VN1206WBSD01	VN1206WBSD01	VN085125.D	06 Dec 2024 14:16		JC\MD	Ok,M
11	VN1206WBL01	VN1206WBL01	VN085126.D	06 Dec 2024 14:40		JC\MD	Ok
12	P5051-01	14B-1	VN085127.D	06 Dec 2024 15:15	vial A pH#6.0	JC\MD	Ok
13	P5051-02	14B-2	VN085128.D	06 Dec 2024 15:39	vial A pH#6.0	JC\MD	Ok
14	P5051-03	14B-3	VN085129.D	06 Dec 2024 16:03	vial A pH#6.0	JC\MD	Ok
15	P5051-04	14B-4	VN085130.D	06 Dec 2024 16:27	vial A pH#6.0	JC\MD	Ok
16	P5068-01	14B-1	VN085131.D	06 Dec 2024 16:51	vial A pH#6.0	JC\MD	Ok
17	P5068-02	14B-2	VN085132.D	06 Dec 2024 17:15	vial A pH#6.0	JC\MD	Ok
18	P5068-03	14B-3	VN085133.D	06 Dec 2024 17:39	vial A pH#6.0	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120624

Review By	Maresh Dadoda	Review On	12/9/2024 8:33:44 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/9/2024 8:36:31 AM
SubDirectory	VN120624	HP Acquire Method	HP Processing Method 624N120624W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP131993		
Initial Calibration Stds	VP131999,VP132000,VP132001,VP132002,VP132003		
CCC	VP131995		
Internal Standard/PEM			
ICV/I.BLK	VP132004		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P5068-04	14B-4	VN085134.D	06 Dec 2024 18:03	vial A pH#6.0	JC\MD	Ok,M
20	P5139-01	001-WILLETS-PT-BLVD	VN085135.D	06 Dec 2024 18:27	vial A pH<2	JC\MD	Ok
21	P5139-02	002-35TH-AVE(DEC)	VN085136.D	06 Dec 2024 18:51	vial A pH<2	JC\MD	Ok
22	P5044-01	OUTFALL-DSN-001	VN085137.D	06 Dec 2024 19:15	vial A pH<2	JC\MD	Ok,M
23	P5044-02	OUTFALL-DSN-002	VN085138.D	06 Dec 2024 19:39	vial A pH<2	JC\MD	Ok
24	P5192-01	EFF-WASTE WATER	VN085139.D	06 Dec 2024 20:03	vial A pH<2	JC\MD	Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN121624

Review By	Maresh Dadoda	Review On	12/17/2024 8:45:42 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/17/2024 8:46:46 AM
SubDirectory	VN121624	HP Acquire Method	HP Processing Method 624N120624W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132153		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132154,VP132155		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085206.D	16 Dec 2024 08:58		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN085207.D	16 Dec 2024 09:42	V13516	JC\MD	Ok,M
3	VN1216WBS01	VN1216WBS01	VN085208.D	16 Dec 2024 10:19		JC\MD	Ok,M
4	VN1216WBSD01	VN1216WBSD01	VN085209.D	16 Dec 2024 10:57		JC\MD	Ok,M
5	VN1216WBL01	VN1216WBL01	VN085210.D	16 Dec 2024 11:21		JC\MD	Ok
6	P5276-03	001-WILLETS-PT-BLVE	VN085211.D	16 Dec 2024 11:57	vial A pH<2	JC\MD	Ok
7	P5276-04	002-35TH-AVE(DEC)	VN085212.D	16 Dec 2024 12:21	vial A pH<2	JC\MD	Ok
8	IBLK	IBLK	VN085213.D	16 Dec 2024 12:45		JC\MD	Ok
9	P5283-01	TT-TB-20241213	VN085214.D	16 Dec 2024 13:09	vial A pH<2 TB	JC\MD	Ok
10	P5283-02	TT-RW10A-IDWGW-20	VN085215.D	16 Dec 2024 13:33	vial A pH<2	JC\MD	Ok
11	VSTDCCC020	VSTDCCC020EC	VN085216.D	16 Dec 2024 16:33		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P5283

Test : VOCMS Group4

Prepbatch ID :

Sequence ID/Qc Batch ID: VN121624,

Standard ID :

VP130994,VP131767,VP131987,VP132005,VP132035,VP132153,VP132154,VP132155,

Chemical ID :

V12560,V12666,V13391,V13445,V13806,V14020,V14021,V14105,V14106,V14152,V14154,V14173,V14174,V14192,V14194,V14201,V14434,V14437,V14614,V14630,V14631,V14632,V14633,V14650,V14651,V14652,W 3112,

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>
466	624 Internal Standard and Surrogate Mix, 150PPM	VP130994	10/21/2024	12/31/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								10/28/2024

FROM 0.15000ml of V12560 + 0.15000ml of V12666 + 24.70000ml of V14152 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP131987	12/06/2024	01/05/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 1.00000ml of V14652 + 1.50000ml of V14650 + 1.50000ml of V14651 + 21.00000ml of V14152 = 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>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132005	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 0.40000ml of V13445 + 1.00000ml of V13806 + 1.00000ml of V14020 + 1.00000ml of V14021 + 1.00000ml of V14105 + 1.00000ml of V14106 + 1.00000ml of V14173 + 1.00000ml of V14174 + 1.00000ml of V14194 + 1.00000ml of V14434 + 1.00000ml of V14437 + 1.50000ml of V14192 + 1.50000ml of V14201 + 10.60000ml of V14152 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP132153	12/16/2024	12/17/2024	John Carlone	None	None	Maresh Dadoda
								12/18/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
645	20 PPB CCC, 624	VP132155	12/16/2024	12/17/2024	John Carlone	None	None	Mahesh Dadoda 12/18/2024
<u>FROM</u>	39.97000ml of W3112 + 0.00500ml of VP131987 + 0.00500ml of VP132005 + 0.00500ml of VP132035 + 0.00800ml of VP130994 = Final Quantity: 40.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0179624	12/31/2024	10/21/2024 / SAM	01/04/2022 / SAM	V12560

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0181978	02/28/2025	10/21/2024 / SAM	02/22/2022 / SAM	V12666

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	11/26/2024 / SAM	01/23/2023 / SAM	V13445

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	V13806

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	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14020

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14021

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	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14105

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	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14106

LOTS

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14173

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	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14174

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14192

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14194

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14201

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	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14434

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	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14437

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14650

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14652

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

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



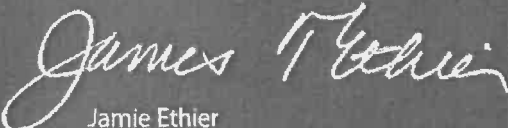
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



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**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

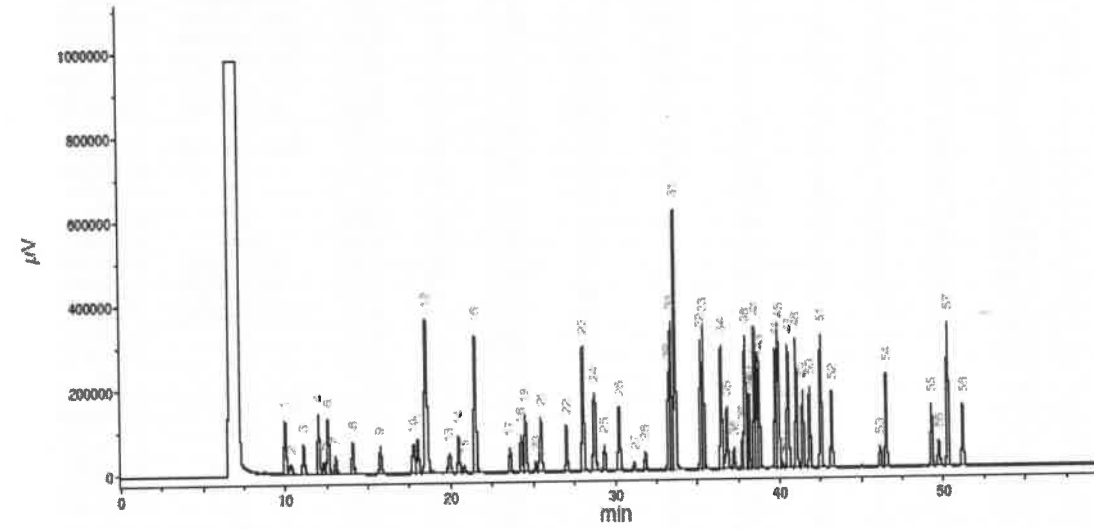
<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot Number	Di. Factor	Initial Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
														CAS#	OSHA PEL (TWA)	LD50
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
Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
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
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
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
Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
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
Iodomethane	(0489)	5HBF8718V	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
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 3480mg/kg
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
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
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
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
2-Nitropropane	(0461)	14002JX	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
Pentachloroethane	(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
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
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 910mg/kg
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
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
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
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
1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
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
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
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
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
1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
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	50 ppm (8H)	or-rat 870mg/kg
1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
1,1-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
cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
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
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
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
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
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	80 ppm (270mg/m3/8H)	or-rat 2400mg/kg
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
Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	1 ppm	or-rat 4694mg/kg
n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-88-1	N/A	or-rat 2699mg/kg
Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
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
Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg
Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
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
2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-88-3	200 ppm	or-rat 5000mg/kg
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
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
3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	95-63-6	N/A	or-rat 5g/kg
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
tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	100 ppm (435mg/m3/8H)	or-rat 5g/kg
sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	N/A
Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	75 ppm (350mg/m3/8H)	or-rat 2240mg/kg
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	108-90-7	50 ppm (250mg/m3/8H)	or-rat 2290mg/kg
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 3900mg/kg
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
3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 500mg/kg
4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	78 ppm (450mg/m3/8H)	or-rat 900mg/kg
propylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	96-82-8	50 ppm (245mg/m3/8H)	or-rat 500mg/kg
propylbenzene	35163	101923	0.05	5.00												

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-Hitropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
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	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	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**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

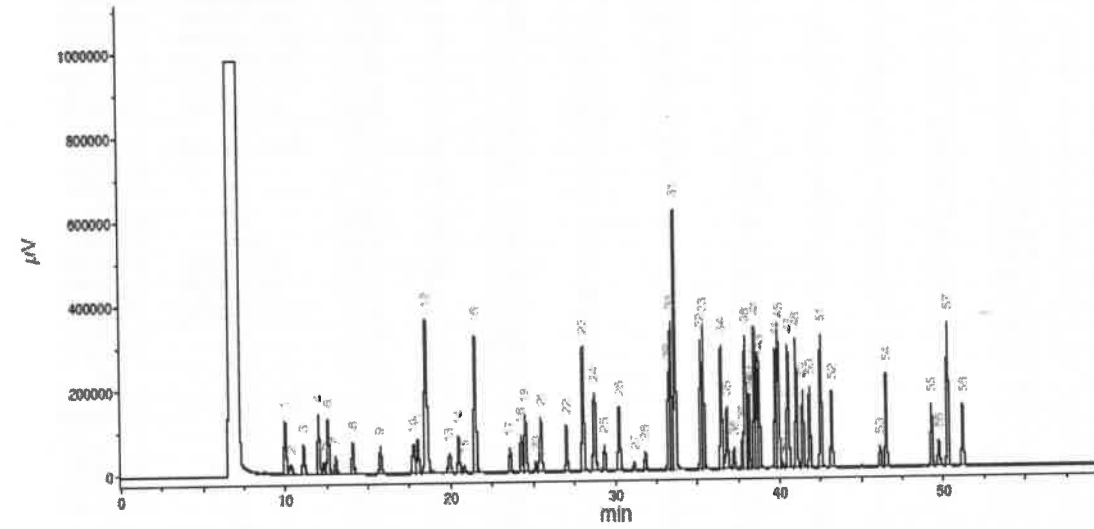
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

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)	Purity (%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty (+/-) (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 disulphide	(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)	IK18CA5000K	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	N/A													
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg													
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 70mg/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	(0461)	14002JX	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 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	N/A													
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 1235mg/kg													
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	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	100 ppm	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	N/A	or-rat 725mg/kg													
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg													
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg													
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg													
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg													
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg													
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg													
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg													
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A													
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A													
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A													
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg													
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg													
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg													
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (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	99-87-8	N/A	or-rat 4750mg/kg													
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg													
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg													
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-98-3	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	87-61-6	N/A	or-rat 1390mg/kg													
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg													
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg													
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg													
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg													
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A													
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	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	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg													
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg													
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg													
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	541-73-1	50 ppm (30 ppm														

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-Hitroprene	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
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/Bromofonn	36.18
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	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:
Lot Number:
Description:

95319
032922
Revised Additions Mix

Solvent(s):
Methanol
Lot#
EC592-US

11 components

Expiration Date:

Recommended Storage:

Nominal Concentration (µg/mL):

NIST Test ID#:

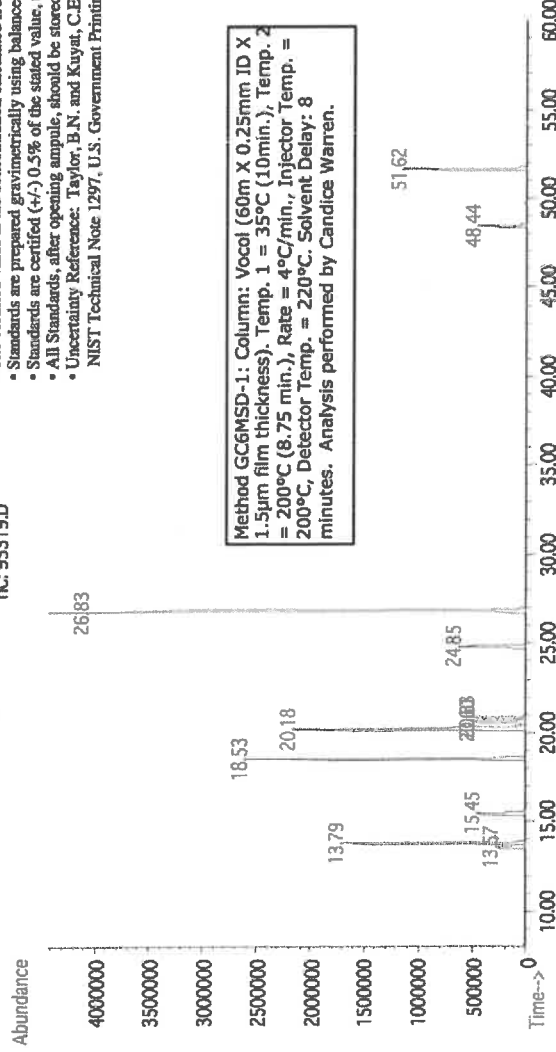
Weight(s) shown below were combined and diluted to (mL):

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 (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	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/m ³ /H)
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/m ³ /H)
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m ³ /H)(skin)
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m ³ /H)(skin)
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/m ³ /H)
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

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 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water

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.
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.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).
Clean up

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.
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

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

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

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

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol
ATA
UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

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

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other 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.



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95319
032922
Revised Additions Mix

Solvent(s):
Methanol
Lot#
EC592-US

11 components

Expiration Date:

Recommended Storage:
Refrigerate (4 °C)

Nominal Concentration (µg/mL):
Varied

NIST Test ID#:
6UTB

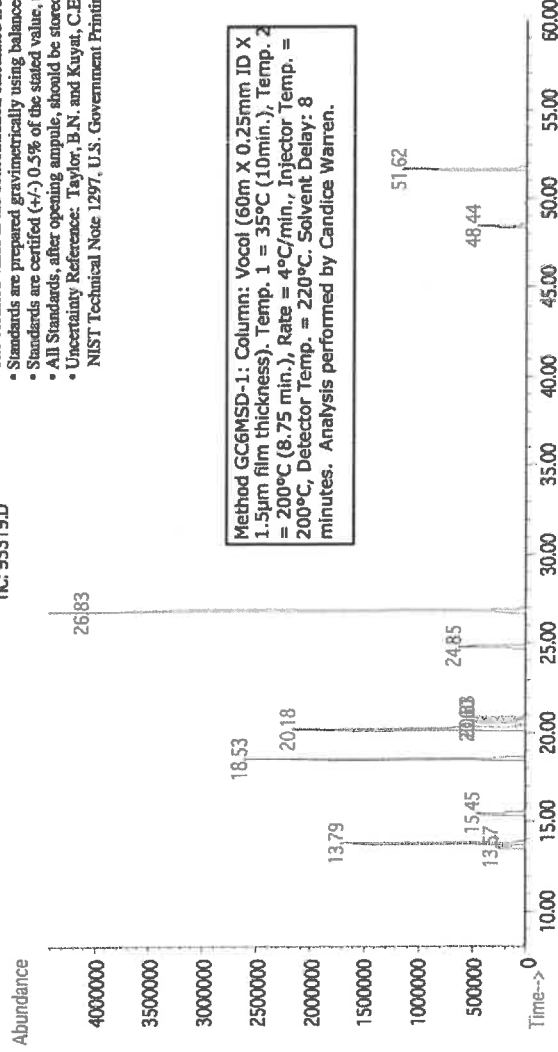
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	032922	DATE
Reviewed By:	Pedro L. Rentas	032922	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (µg)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	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/m ³ /8h)
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/m ³ /8h)
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m ³ /8h)(skin)
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m ³ /8h)(skin)
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	02197JJ	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/m ³ /8h)
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

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:	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.
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.

Flammability
Suitable extinguishing media
Protective equipment for fire
Wear self contained breathing apparatus for fire fighting if necessary.

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.
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.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).
Clean up

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.
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
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

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

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

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

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol
ATA
UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

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

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other 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.



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95318
120524
2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

120527
Refrigerate (4 °C)
10000
6UTB

Weight(s) shown below were combined and diluted to (mL):

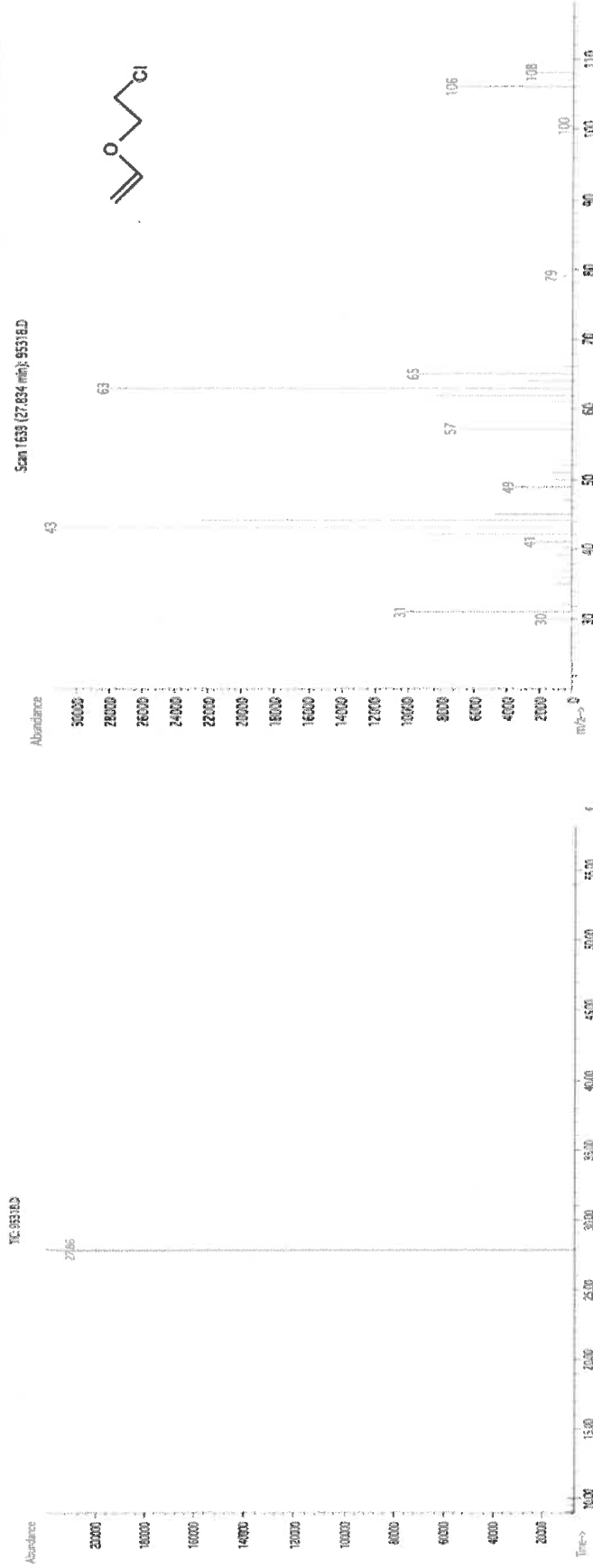
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524 DATE
Reviewed By: Pedro L. Rentas 120524 DATE

Expanded
Uncertainty
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	or-rat 250mg/kg
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	N/A

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

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

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

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

Section V. FIREFIGHTING MEASURES

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

Section VI. ACCIDENTAL RELEASE MEASURES

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

Section VII. HANDLING AND STORAGE

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

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Section IX - Physical/Chemical Characteristics

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

Section X. STABILITY AND REACTIVITY

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

Section XI. TOXICOLOGICAL INFORMATION

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

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

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

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

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

Section XV. REGULATORY INFORMATION

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

Section XVI. Misc. INFORMATION

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



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95318
120524
2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

120527
Refrigerate (4 °C)
10000
6UTB

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

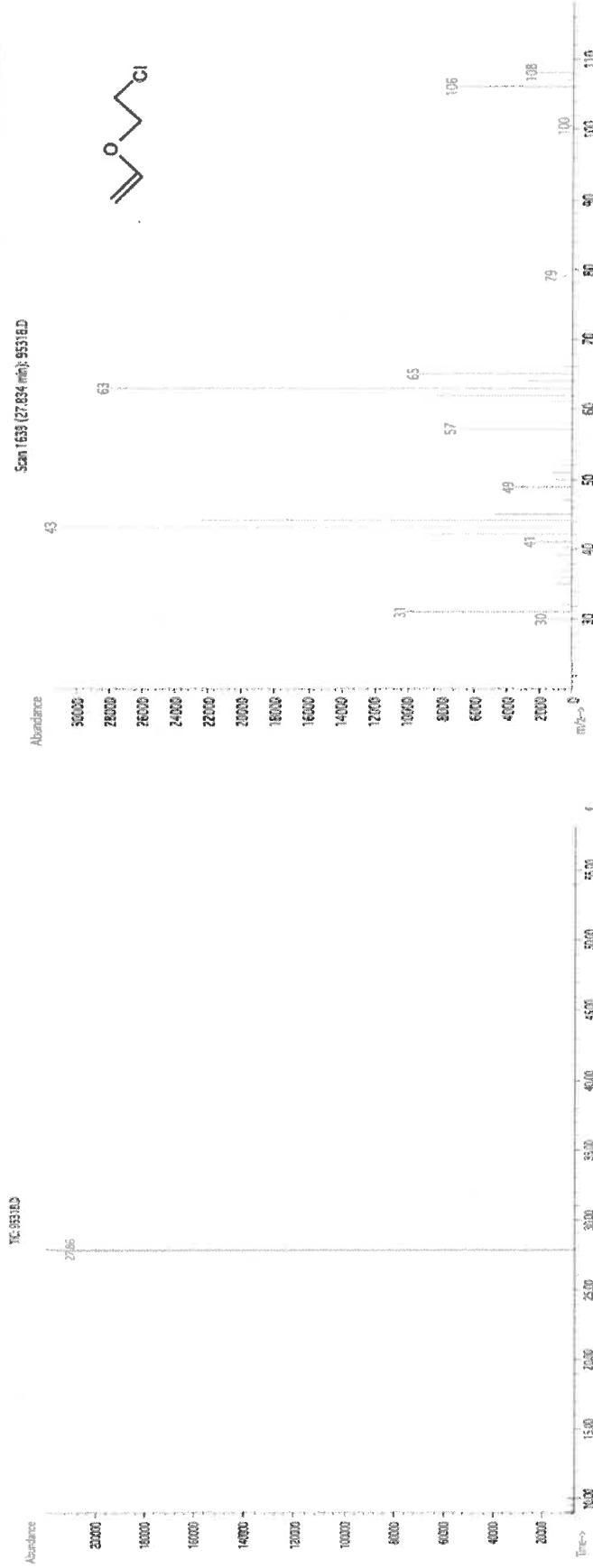
Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentas	120524	DATE

Expanded
Uncertainty
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

SDS Information

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	or-rat 250mg/kg
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	N/A

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

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

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

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

Section V. FIREFIGHTING MEASURES

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

Section VI. ACCIDENTAL RELEASE MEASURES

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

Section VII. HANDLING AND STORAGE

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

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Section IX - Physical/Chemical Characteristics

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

Section X. STABILITY AND REACTIVITY

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

Section XI. TOXICOLOGICAL INFORMATION

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

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

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

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

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

Section XV. REGULATORY INFORMATION

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

Section XVI. Misc. INFORMATION

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Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

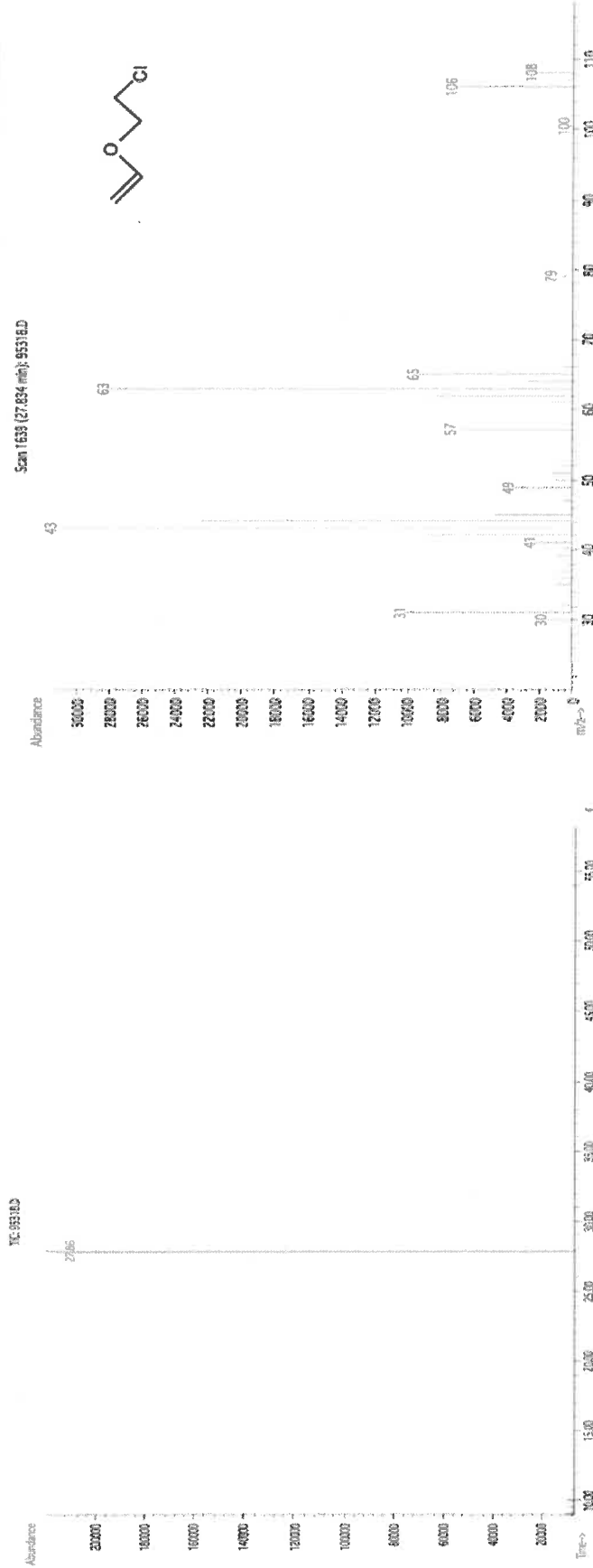
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524
Reviewed By: Pedro L. Rentas 120524

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

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

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

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

Section V. FIREFIGHTING MEASURES

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

Section VI. ACCIDENTAL RELEASE MEASURES

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

Section VII. HANDLING AND STORAGE

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

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Section IX - Physical/Chemical Characteristics

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

Section X. STABILITY AND REACTIVITY

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

Section XI. TOXICOLOGICAL INFORMATION

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

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

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

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

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

Section XV. REGULATORY INFORMATION

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

Section XVI. Misc. INFORMATION

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



See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

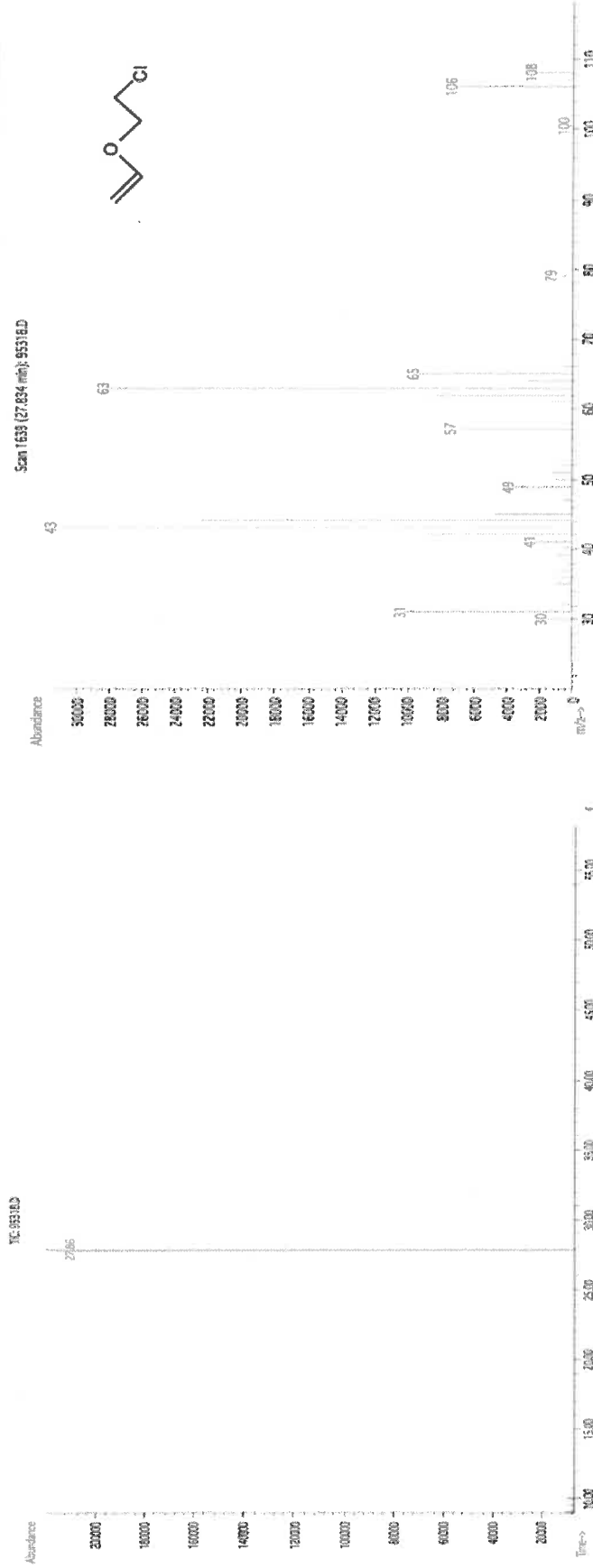
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentas	120524	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



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Safety Data Sheet (SDS)

GHS/OSHA Compliant

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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
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P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

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

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

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Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
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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

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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.

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Certified Reference Material CRM

See 1216124



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein
Expiration Date: 01/05/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q

514650-54

Formulated By: Prashant Chauhan		DATE 120524
Reviewed By: Pedro L. Rentes		DATE 120524

Weight(s) shown below were combined and diluted to (mL):

SE-05 Balance Uncertainty
0.002 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL) (+/-) (µg/mL)	Expanded Uncertainty (Solute Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10320	5006.1	51.8	107-02-8	0.1 ppm	or rat 48mg/kg

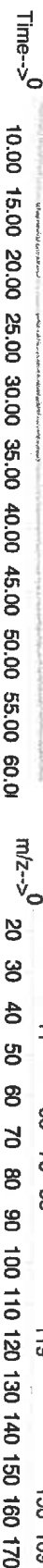
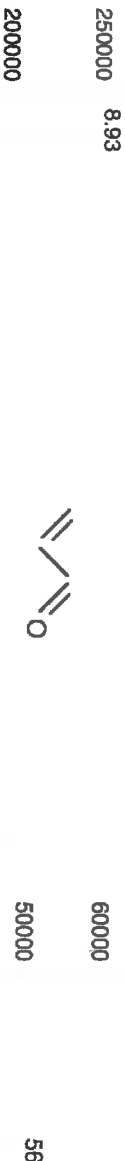
Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentes, NOTED: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

Abundance

TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D



- 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 Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

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

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

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

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

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

Section VII. HANDLING AND STORAGE

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

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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



Certified Reference Material CRM

See 12161224



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein
Expiration Date: 01/05/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q
Balance Uncertainty: 0.002
Flask Uncertainty: 0.002

Formulated By:	Prashant Chauhan	120524
Reviewed By:	Pedro L. Rentes	120524
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL) (+/-) (µg/mL)	Expanded Uncertainty (Solute Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

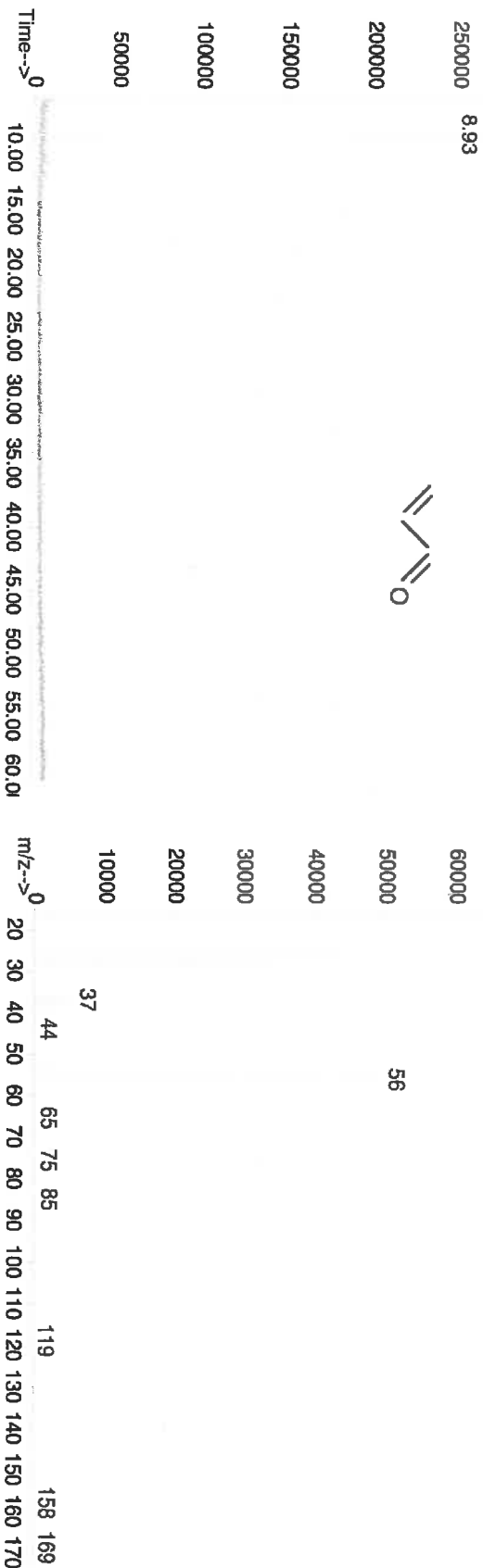
Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentes, NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

Abundance

TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D



- 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 Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

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

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

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

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

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

Section VII. HANDLING AND STORAGE

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

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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



Certified Reference Material CRM

See 1216124



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

514650-54

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

SE-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524
Reviewed By:	Pedro L. Rentes	120524
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL) (+/-) (µg/mL)	Expanded Uncertainty (Solvent Safety Info. On Attached pg.)		
									CAS#	OSHA PEL (TWA)	LD50

1. Acrolein 5 103755R02H 5000 97 0.5 0.10307 0.10320 5006.1 51.8 107-02-8 0.1 ppm or rat 48mg/kg

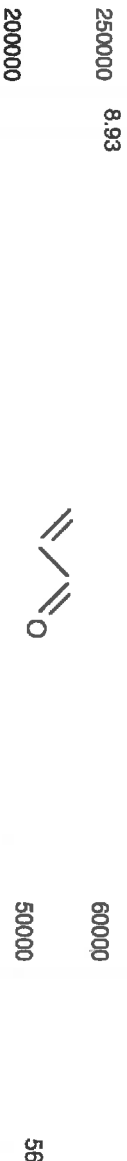
Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentes, NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Abundance

Abundance

Scan 232 (8.927 min): [BSB2]79005.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 Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

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

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

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

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

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

Section VII. HANDLING AND STORAGE

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

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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



110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555583 Lot No.: A0181978

Description : Custom CLP VOA Internal Standard Mix

Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : February 28, 2025 Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Difluorobenzene CAS # 540-36-3 Purity 99% (Lot MKBN8571V)	25,032.0 µg/mL	+/- 231.6508 µg/mL Gravimetric +/- 1,415.0433 µg/mL Unstressed +/- 1,447.6224 µg/mL Stressed
2	Bromochloromethane CAS # 74-97-5 Purity 99% (Lot 00008541)	25,036.0 µg/mL	+/- 231.6879 µg/mL Gravimetric +/- 1,415.2694 µg/mL Unstressed +/- 1,447.8538 µg/mL Stressed
3	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-29571)	25,104.0 µg/mL	+/- 232.3171 µg/mL Gravimetric +/- 1,419.1134 µg/mL Unstressed +/- 1,451.7863 µg/mL Stressed

Solvent: P&T Methanol
 CAS # 67-56-1
 Purity 99%

Miranda Kline
 Miranda Kline - Operations Technician I

Date Mixed: 17-Feb-2022 Balance: B707717271

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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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:

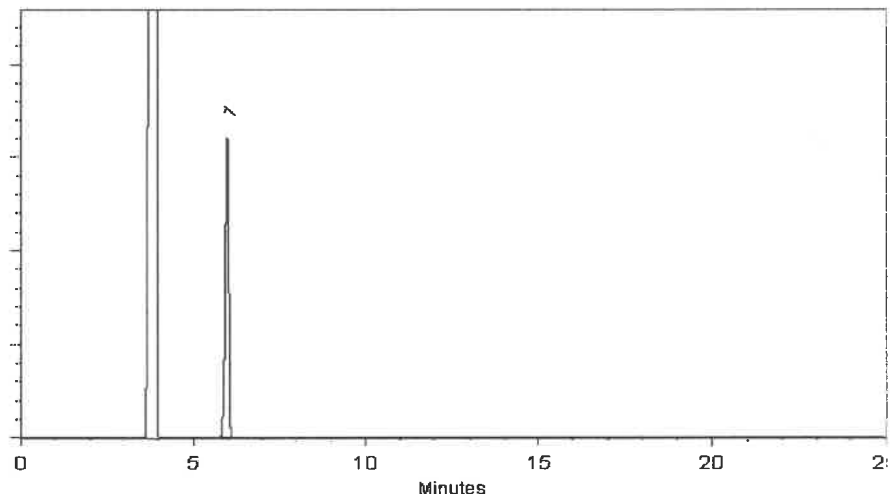
200°C

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 - Operations Technician I

Date Mixed: 16-Feb-2022

Balance: B442140311

Marlene 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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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:

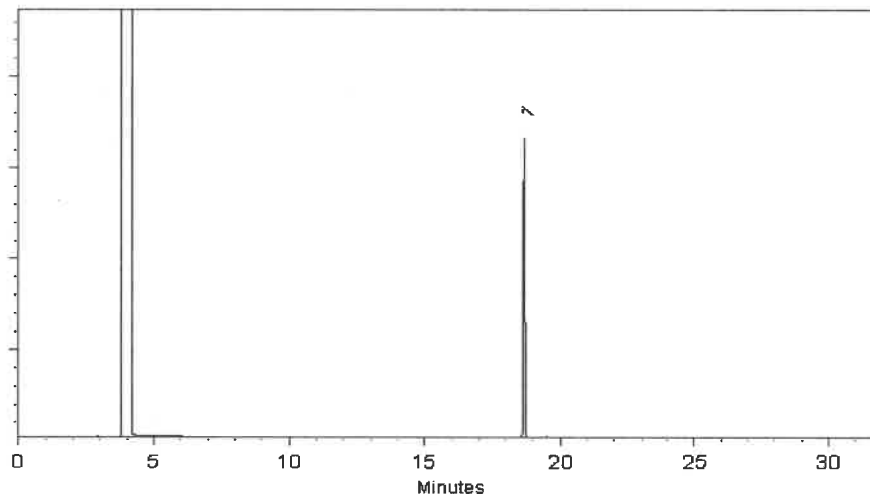
FID

Split Vent:

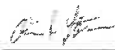
40 ml/min

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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

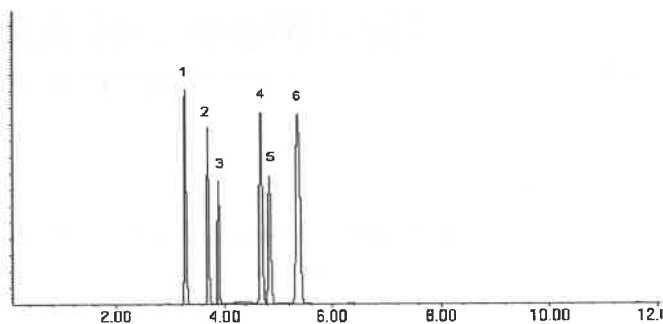
MSD

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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** 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:

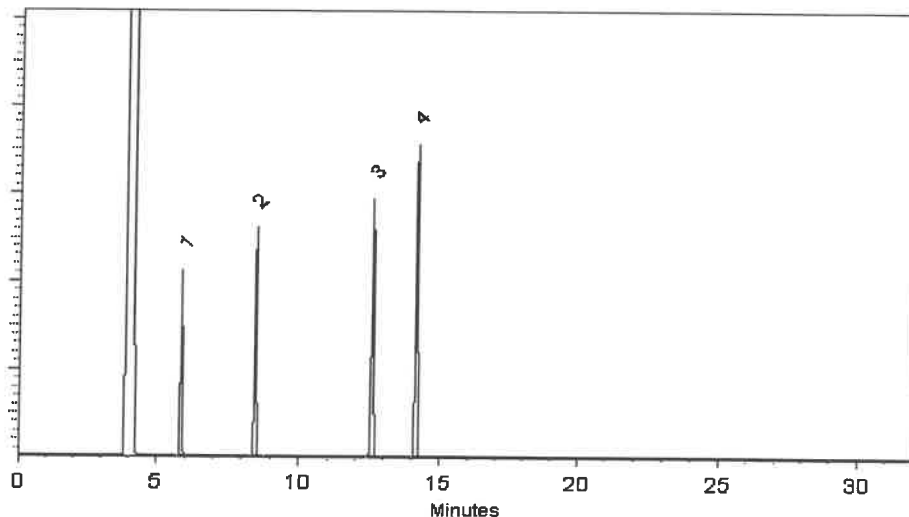
FID

Split Vent:

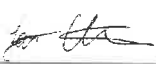
40 ml/min

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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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:

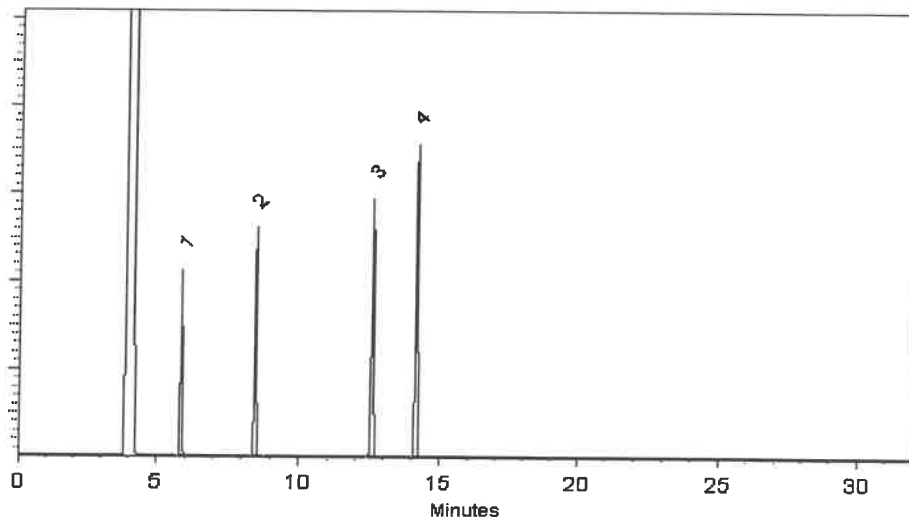
FID

Split Vent:

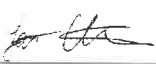
40 ml/min

Inj. Vol

1µl



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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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:

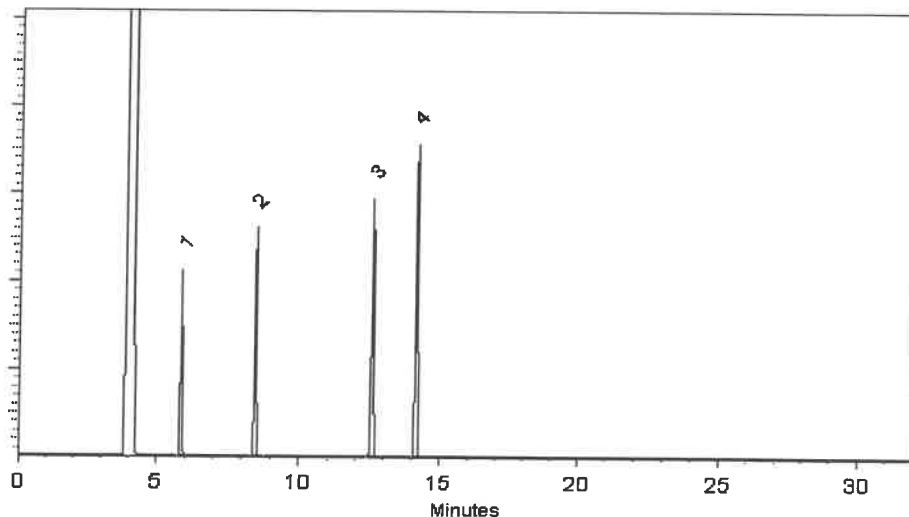
FID

Split Vent:

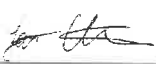
40 ml/min

Inj. Vol

1µl



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



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:

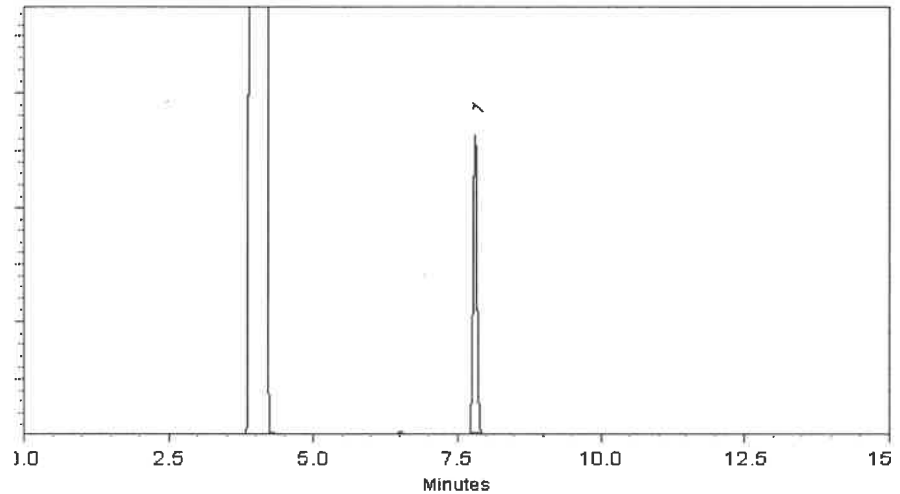
FID

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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

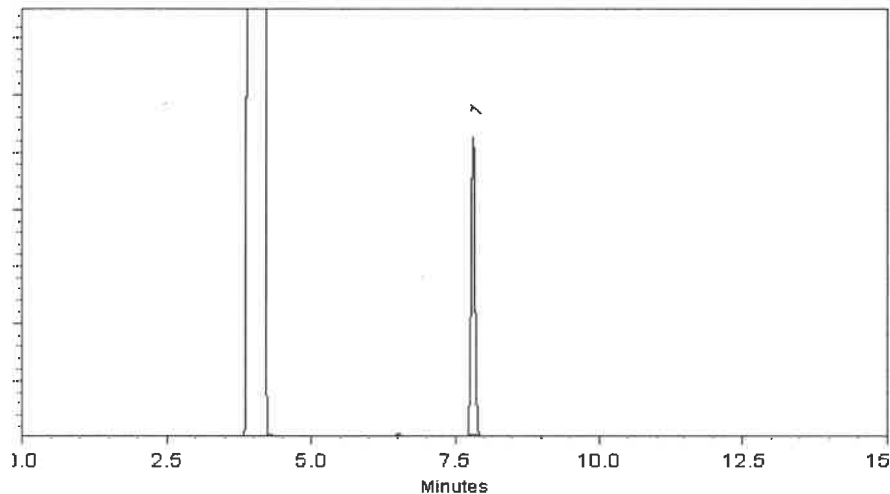
FID

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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

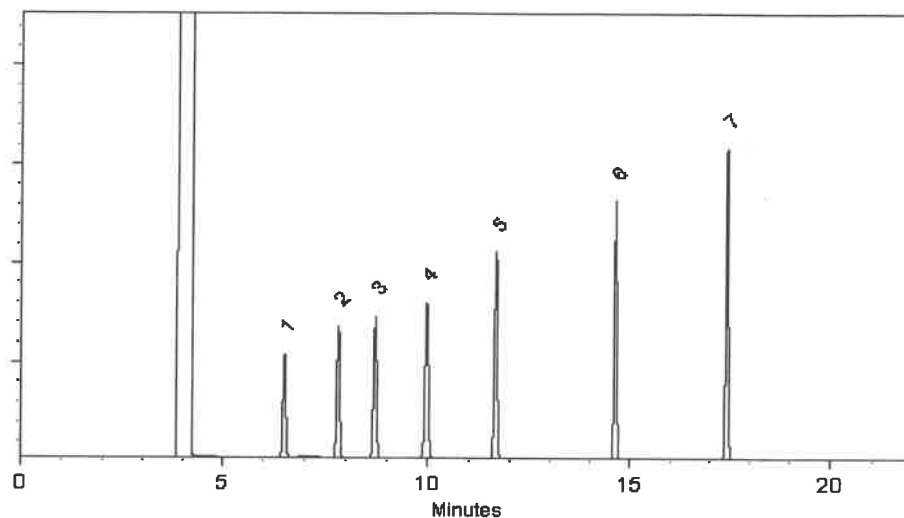
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

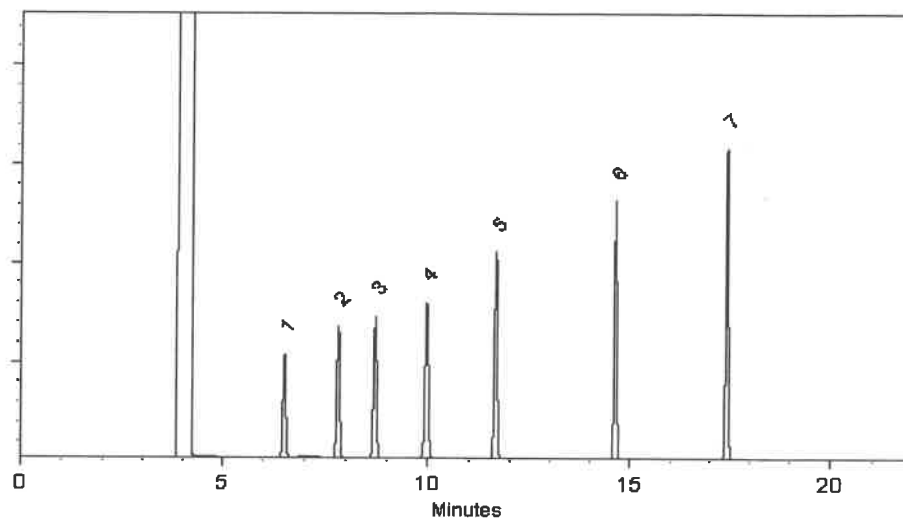
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555584 Lot No.: A0179624

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : December 31, 2024 Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot PR-29377) Purity 99%	25,032.0 µg/mL	+/-	231.6508	µg/mL	Gravimetric
			+/-	1,415.0433	µg/mL	Unstressed
			+/-	1,447.6224	µg/mL	Stressed
2	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	25,072.0 µg/mL	+/-	232.0210	µg/mL	Gravimetric
			+/-	1,417.3044	µg/mL	Unstressed
			+/-	1,449.9357	µg/mL	Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-31958) Purity 99%	25,024.0 µg/mL	+/-	231.5768	µg/mL	Gravimetric
			+/-	1,414.5910	µg/mL	Unstressed
			+/-	1,447.1598	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 16-Dec-2021 Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

NTP:

Chemical Name
No data available

CAS No.

IARC:

Chemical Name

CAS No.

Group No.

12. ECOLOGICAL INFORMATION**Overview:**

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Mobility:

No data

Persistence:

No data

Bioaccumulation:

No data

Degradability:

Biodegrades slowly.

Ecological Toxicity Data:

No data available

13. DISPOSAL CONSIDERATIONS**Waste Description of Spent Product:**

Spent or discarded material is a hazardous waste. Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.

Disposal Methods:

Dispose of by incineration following Federal, State, Local, or Provincial regulations.

Waste Disposal of Packaging:

Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION**United States:****DOT Proper Shipping Name:**

Flammable liquids, n.o.s (Methanol, Toluene-d8)

UN Number:

UN1993

Hazard Class:

3

Packing Group:

II

International:**IATA Proper Shipping Name:**

Flammable liquids, n.o.s (Methanol, Toluene-d8)

UN Number:

UN1993

Hazard Class:

3

Packing Group:

II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION**United States:**

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
1-Bromo-4-fluorobenzene (BFB)	460-00-4	-	-	-	X
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Develop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
1-Bromo-4-	460-00-4	-	-	-	-

fluorobenzene (BFB)					
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 01/05/17

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

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For Laboratory, Research, or Manufacturing Use
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500 Series for Drinking Water
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: PS283												
COC Number:																
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION												
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT		PO#										
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: GW IDW		ADDRESS:												
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Dave Brayack		CITY:		STATE: ZIP:										
ATTENTION: Ernie Wu		E-MAIL: david.brayack@tetrattech.com		ATTENTION:		PHONE:										
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4909 FAX: 757-461-4148		ANALYSIS												
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		PRESERVATIVES												
FAX: 24hr DAYS* HARD COPY: 24hr DAYS* EDD 24hr DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ RESULTS + QC ☐ New Jersey REDUCED ☐ New Jersey CLP ☐ EDD Format ☐ USEPA CLP ☐ New York State ASP "B" ☐ New York State ASP "A" ☐ Other		VOC's (EPA 624) pH Total Metals PCB's (EPA 8082) 1 2 3 4 5 6 7 8 9												
CHEMTECH SAMPLE ID		PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles		COMMENTS				
						COMP GRAB		DATE TIME				<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other				
1.		TT-TB-20241213		QA		X		12/13/24 9:00		2		Trip Blank				
2.		TT-RW10A-IDWGW-20241213		AQ		X		12/13/24 10:15		6		Refer to COC For Name				
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.1C MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:										
1.		12/13/24 1300		1.		12-13-24										
RELINQUISHED BY		DATE/TIME		RECEIVED BY		Comments: 24hr TAT - CTO-WE13 Drilling GW IDW Sampling - RW10A										
2.		12-13-24		2.												
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY		SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight					Shipment Complete					
3.		12-13-24		3.		CHEMTECH: ☐ Picked Up ☐ Overnight					☐ YES ☐ NO					
Page 1 of 1																
WHITE - CHEMTECH COPYFOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																



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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5283 TETR06

Order Date : 12/13/2024 1:07:00 PM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 12/13/2024 12:00:00 AM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5283-01	TT-TB-20241213	Water	12/13/2024	09:00					
					VOCMS Group4		624.1		1 Bus. Day
P5283-02	TT-RW10A-IDWGW-20241213	Water	12/13/2024	10:15					
					VOCMS Group4		624.1		1 Bus. Day

Relinquished By :

Date / Time : 12-16-24 9:55

Received By :

Date / Time : 12-16-24 9:55

Storage Area : VOA Refridgerator Room

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085117.D
 Acq On : 06 Dec 2024 10:02
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Dec 06 22:28:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29169	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	144230	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	136167	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71806	31.025	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.400%	
60) 4-Bromofluorobenzene	12.847	95	65235	28.954	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 96.500%	
63) Toluene-d8	10.565	98	199139	31.177	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.933%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	10073	4.316	ug/l	100
3) Chloromethane	2.359	50	10004	4.843	ug/l	96
4) Vinyl Chloride	2.518	62	10554	4.995	ug/l #	88
5) Bromomethane	2.953	94	7670	5.718	ug/l	97
6) Chloroethane	3.124	64	6472	4.986	ug/l #	87
7) Trichlorofluoromethane	3.500	101	16991	4.913	ug/l	98
8) Diethyl Ether	3.965	74	4729	4.317	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	5792	2.995	ug/l	57
10) 1,1-Dichloroethene	4.342	96	8113	4.567	ug/l	92
11) Methyl Iodide	4.594	142	5932	2.408	ug/l	98
12) Methyl Acetate	5.030	43	9920	4.734	ug/l	99
13) Acrolein	4.189	56	7501	24.630	ug/l	87
14) Acrylonitrile	5.706	53	7723	8.875	ug/l #	1
15) Acetone	4.418	58	5274	22.365	ug/l	85
16) Carbon Disulfide	4.706	76	26140	4.923	ug/l	96
17) Allyl chloride	5.024	41	11376	4.476	ug/l	89
18) Methylene Chloride	5.271	84	10687	5.302	ug/l #	83
19) trans-1,2-Dichloroethene	5.789	96	9118	4.938	ug/l #	79
20) Diisopropyl ether	6.659	45	13210	2.368	ug/l #	55
21) 1,1-Dichloroethane	6.571	63	17605	5.113	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	9776	4.606	ug/l	96
23) tert-Butyl Alcohol	5.518	59	6230	19.957	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	23064	4.159	ug/l #	73
25) Chloroform	7.959	83	18374	5.094	ug/l	96
26) Cyclohexane	8.253	56	11013	3.885	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	11010	4.731	ug/l	97
30) 2-Butanone	7.477	43	24858	23.275	ug/l #	97
31) 2,2-Dichloropropane	7.488	77	14990	5.023	ug/l #	100
32) 1,1,1-Trichloroethane	8.171	97	16430	5.216	ug/l	96
33) Carbon Tetrachloride	8.359	117	14874	5.233	ug/l #	95
34) Benzene	8.606	78	38013	5.199	ug/l #	92
35) Methacrylonitrile	7.777	41	5355	4.455	ug/l	89
36) 1,2-Dichloroethane	8.671	62	13568	5.451	ug/l #	93
37) Trichloroethene	9.347	130	8822	5.067	ug/l	92
38) Methylcyclohexane	9.600	83	10891	4.304	ug/l	98
39) 1,2-Dichloropropane	9.624	63	9337	5.273	ug/l	100
40) Dibromomethane	9.706	93	6598	5.194	ug/l	95
41) Bromodichloromethane	9.882	83	14332	5.278	ug/l #	84
42) Vinyl Acetate	6.600	43	76634	20.505	ug/l #	85

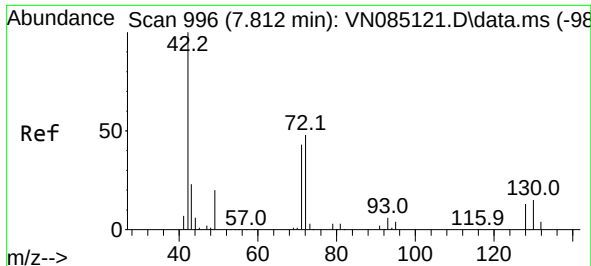
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 Data File : VN085117.D
 Acq On : 06 Dec 2024 10:02
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Dec 06 22:28:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	10470	4.927	ug/l #	86
44) Isopropyl Acetate	8.682	43	17789	4.817	ug/l	98
45) 1,4-Dioxane	9.688	88	2638	85.662	ug/l #	78
46) Methyl methacrylate	9.682	41	7196	4.258	ug/l	92
47) n-amyl Acetate	12.494	43	12494	4.021	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	12463	4.675	ug/l	93
49) cis-1,3-Dichloropropene	10.306	75	13955	4.809	ug/l	99
50) 1,1,2-Trichloroethane	11.018	97	9292	5.429	ug/l	91
51) Ethyl methacrylate	10.871	69	10590	4.068	ug/l	88
52) 1,3-Dichloropropane	11.159	76	14378	5.019	ug/l	98
53) Dibromochloromethane	11.353	129	10942	5.246	ug/l	98
54) 1,2-Dibromoethane	11.471	107	8602	4.988	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	23999	19.844	ug/l	98
56) Bromoform	12.576	173	7066	5.052	ug/l	95
58) 4-Methyl-2-Pentanone	10.441	43	48868	21.990	ug/l	99
59) 2-Hexanone	11.194	43	35678	21.188	ug/l	97
61) Tetrachloroethene	11.100	164	9241	5.604	ug/l	93
62) Toluene	10.629	91	40385	5.085	ug/l	96
64) Chlorobenzene	11.888	112	24379	4.972	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	9796	5.352	ug/l	93
66) Ethyl Benzene	11.959	91	36907	4.380	ug/l	98
67) m/p-Xylenes	12.070	106	27271	8.414	ug/l	98
68) o-Xylene	12.394	106	12741	4.186	ug/l	97
69) Styrene	12.412	104	20235	3.918	ug/l	95
70) Isopropylbenzene	12.694	105	31980	4.073	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	12502	5.232	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	15909	6.740	ug/l	73
73) Bromobenzene	12.976	156	9325	4.742	ug/l	94
74) n-propylbenzene	13.035	91	39585	4.194	ug/l	100
75) 2-Chlorotoluene	13.123	91	25942	4.445	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	28160	4.187	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	3618	4.218	ug/l	96
78) 4-Chlorotoluene	13.217	91	27508	4.644	ug/l	99
79) tert-butylbenzene	13.435	119	22204	4.019	ug/l	95
80) 1,2,4-Trimethylbenzene	13.482	105	26128	3.933	ug/l	100
81) sec-Butylbenzene	13.617	105	32252	4.109	ug/l	99
82) p-Isopropyltoluene	13.729	119	24743	3.803	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	17680	4.900	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	16455	4.680	ug/l	98
85) n-Butylbenzene	14.053	91	20500	3.756	ug/l	97
86) Hexachloroethane	14.335	117	6189	4.778	ug/l	84
87) 1,2-Dichlorobenzene	14.106	146	16856	4.950	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.711	75	2146	4.495	ug/l	93
89) 1,2,4-Trichlorobenzene	15.835	180	6347	3.806	ug/l	91
90) Hexachlorobutadiene	15.494	225	4673	5.392	ug/l	93
91) Naphthalene	15.635	128	15972	3.083	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.835	180	6347	3.806	ug/l	91

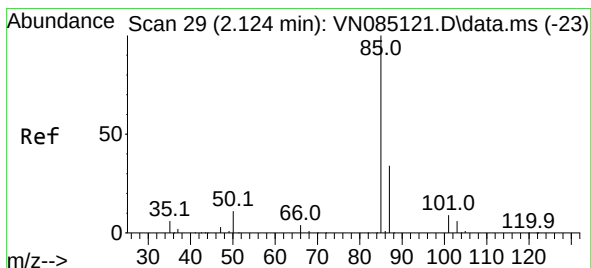
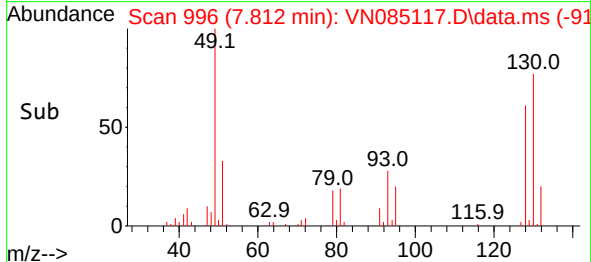
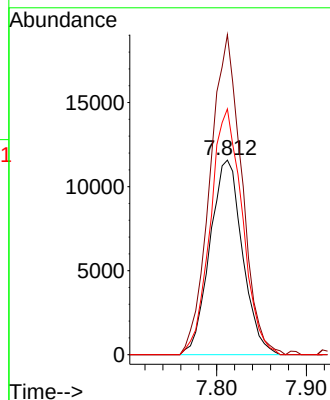
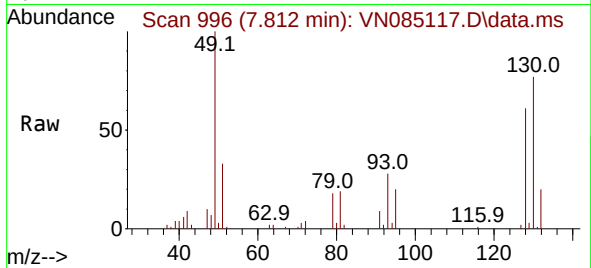
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

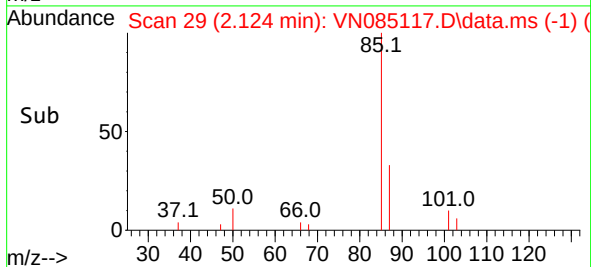
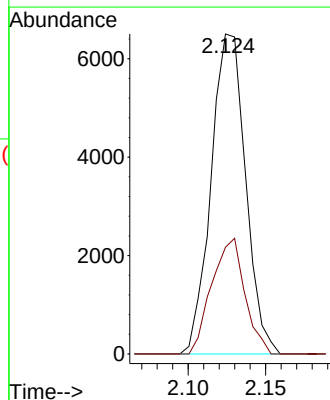
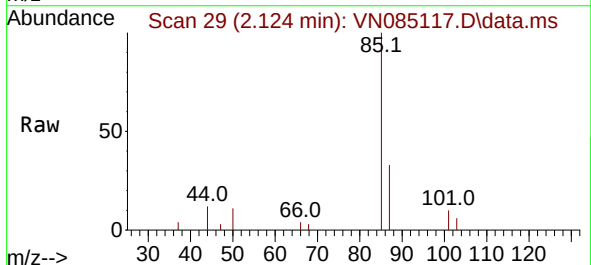
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

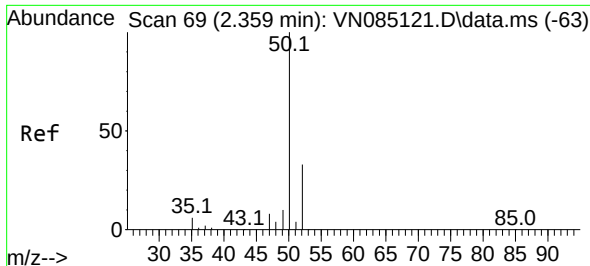
Tgt Ion:128 Resp: 29169
Ion Ratio Lower Upper
128 100
49 160.4 0.0 394.5
130 124.3 0.0 316.5



#2
Dichlorodifluoromethane
Concen: 4.316 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 85 Resp: 10073
Ion Ratio Lower Upper
85 100
87 33.3 16.8 50.3

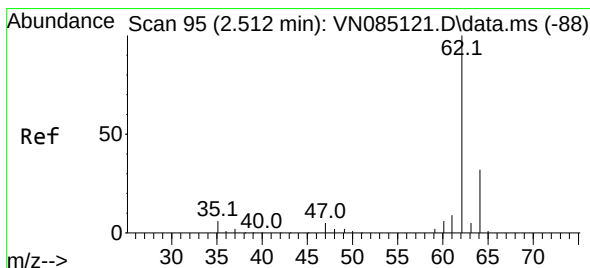
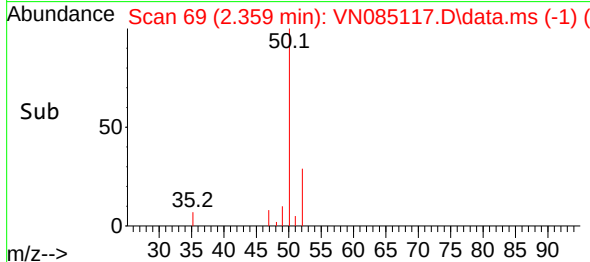
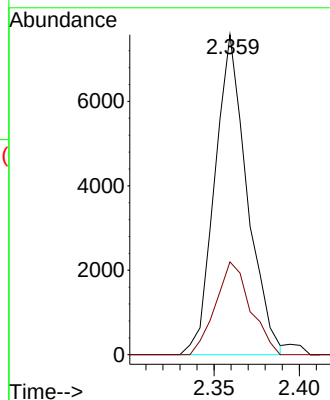
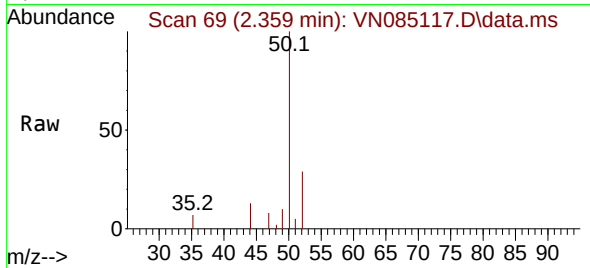




#3
Chloromethane
Concen: 4.843 ug/l
RT: 2.359 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

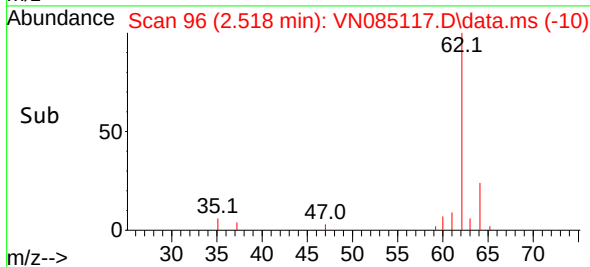
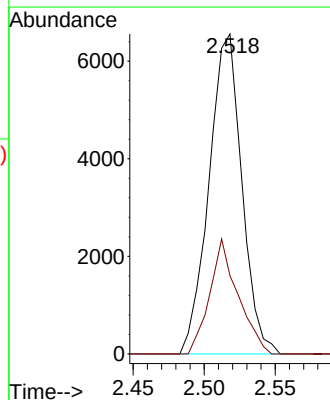
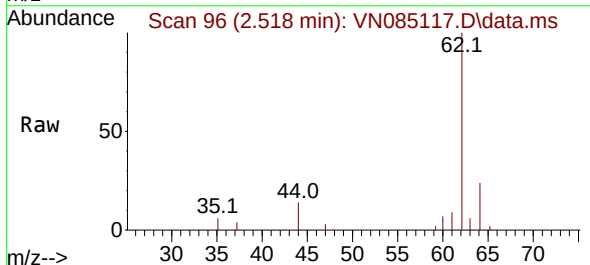
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

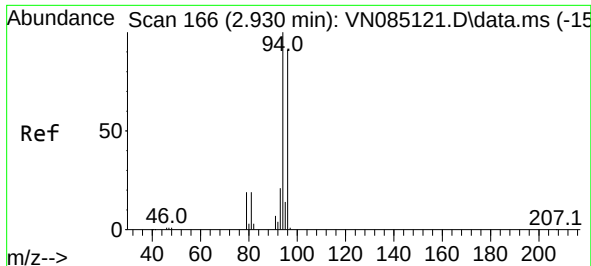
Tgt Ion: 50 Resp: 10004
Ion Ratio Lower Upper
50 100
52 29.0 25.0 37.4



#4
Vinyl Chloride
Concen: 4.995 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 62 Resp: 10554
Ion Ratio Lower Upper
62 100
64 24.5 24.9 37.3#

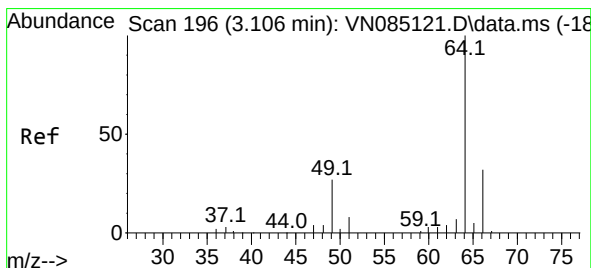
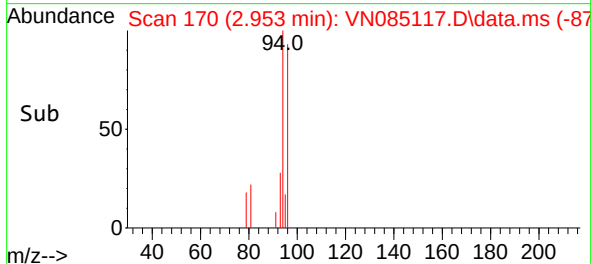
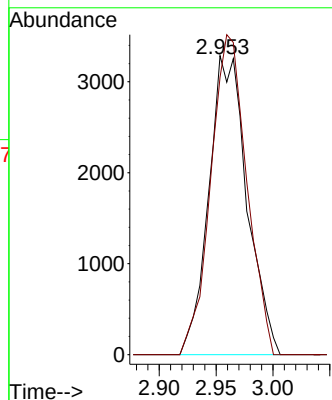
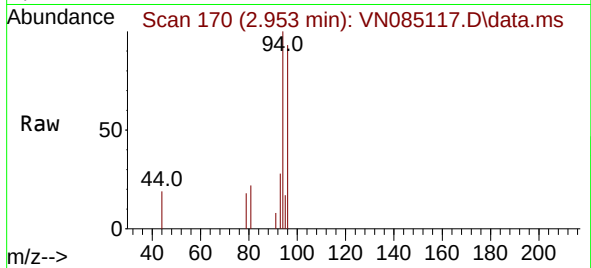




#5
Bromomethane
Concen: 5.718 ug/l
RT: 2.953 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

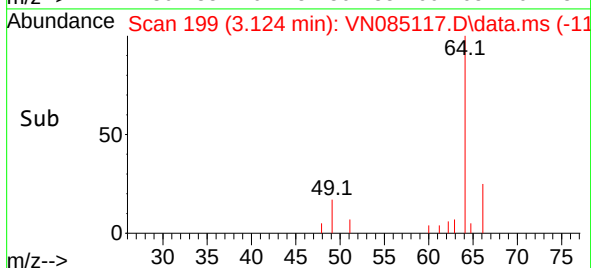
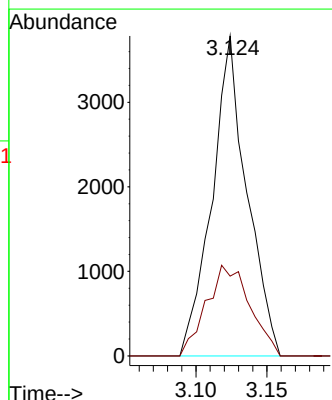
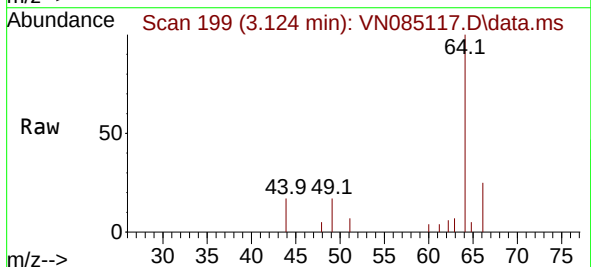
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

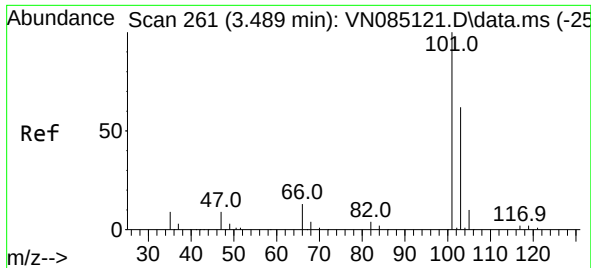
Tgt Ion: 94 Resp: 7670
Ion Ratio Lower Upper
94 100
96 92.8 76.2 114.4



#6
Chloroethane
Concen: 4.986 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 64 Resp: 6472
Ion Ratio Lower Upper
64 100
66 24.9 25.5 38.3#

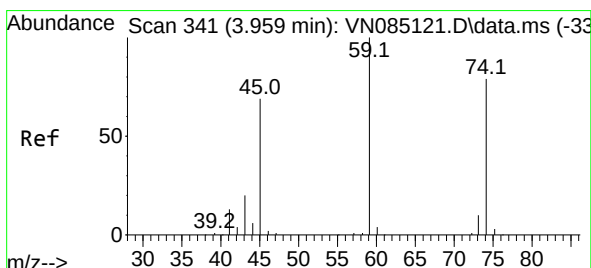
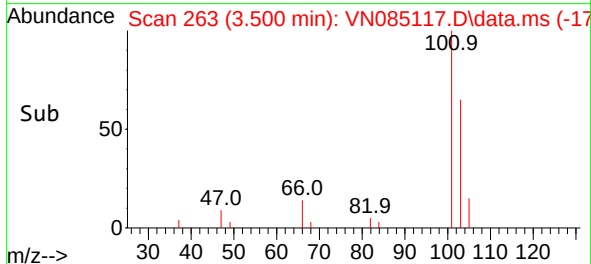
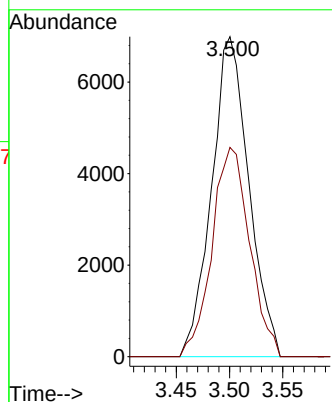
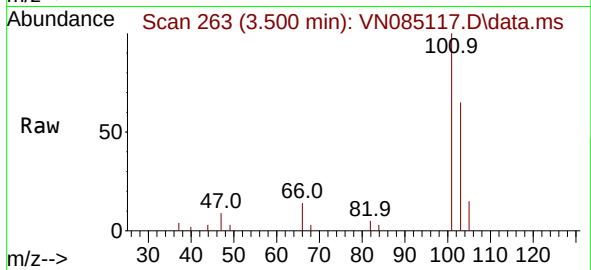




#7
Trichlorofluoromethane
Concen: 4.913 ug/l
RT: 3.500 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

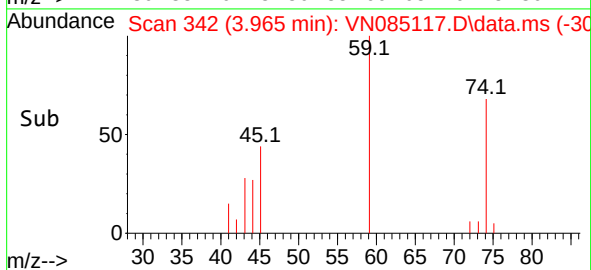
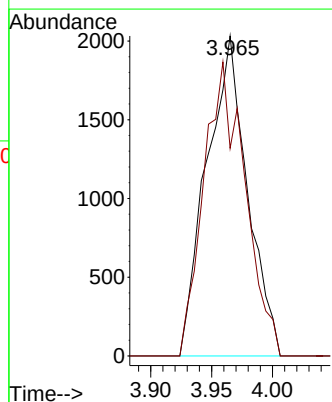
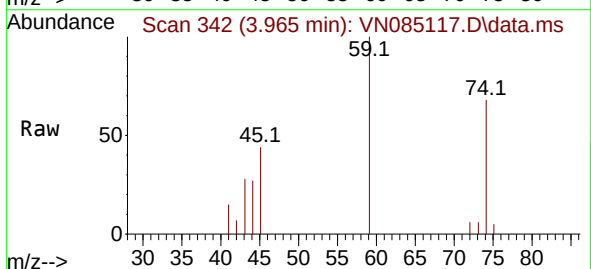
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

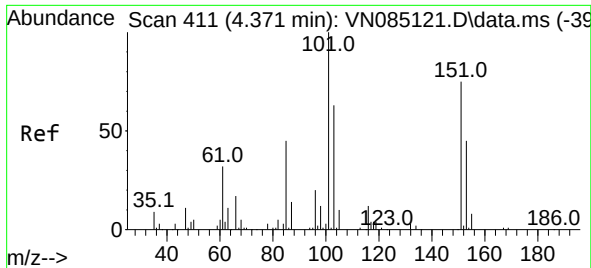
Tgt Ion:101 Resp: 16991
Ion Ratio Lower Upper
101 100
103 65.4 51.3 76.9



#8
Diethyl Ether
Concen: 4.317 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 74 Resp: 4729
Ion Ratio Lower Upper
74 100
45 92.9 18.6 167.8

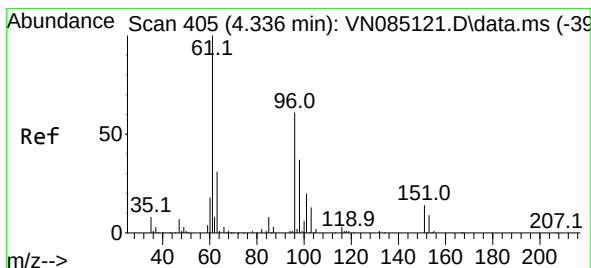
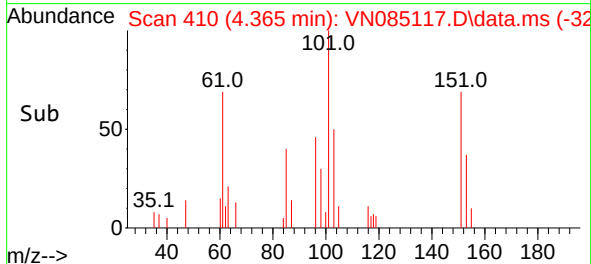
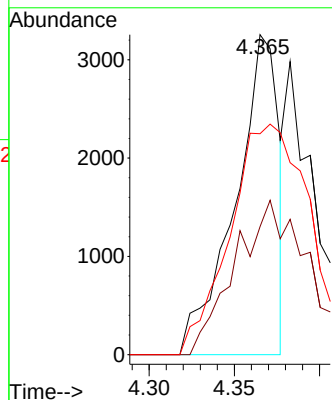
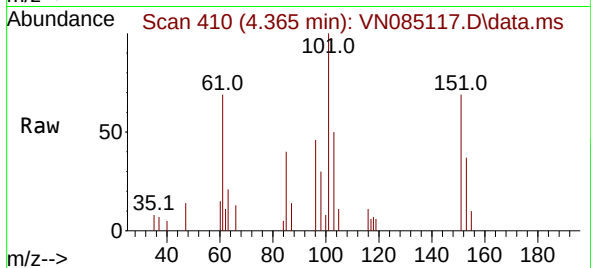




#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.995 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

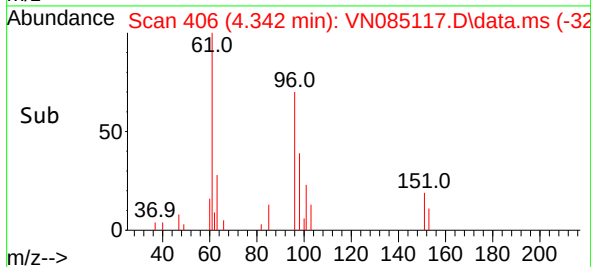
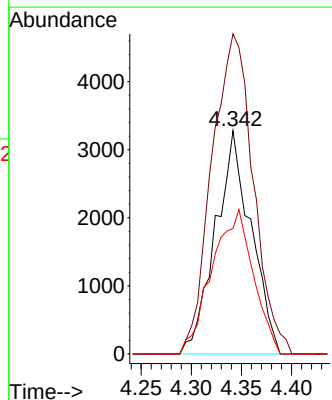
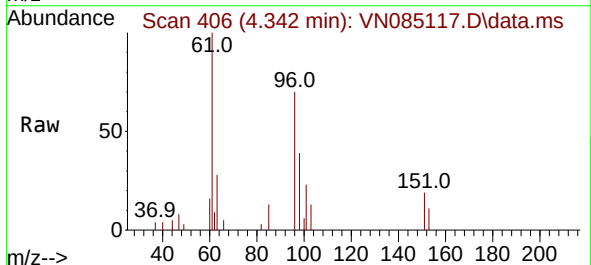
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

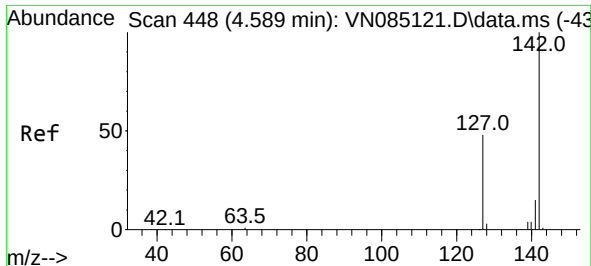
Tgt Ion:101 Resp: 5792
Ion Ratio Lower Upper
101 100
85 52.5 0.0 88.6
151 130.4 0.0 155.8



#10
1,1-Dichloroethene
Concen: 4.567 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 96 Resp: 8113
Ion Ratio Lower Upper
96 100
61 143.4 123.0 184.4
98 56.2 49.1 73.7

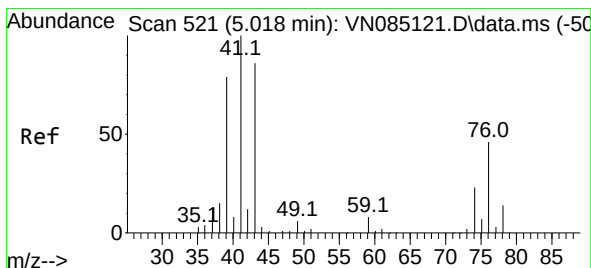
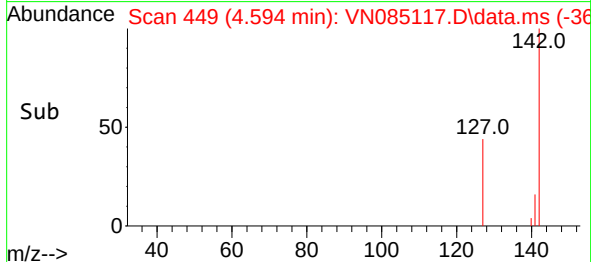
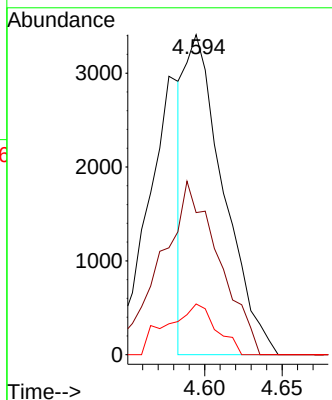
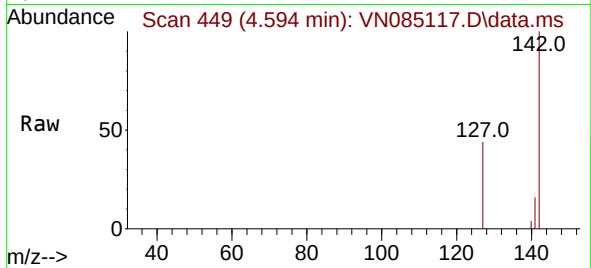




#11
Methyl Iodide
Concen: 2.408 ug/l
RT: 4.594 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

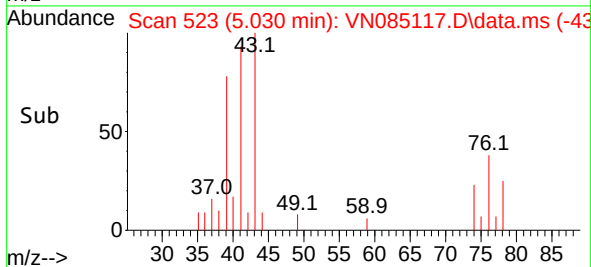
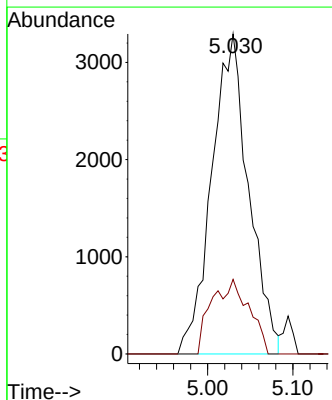
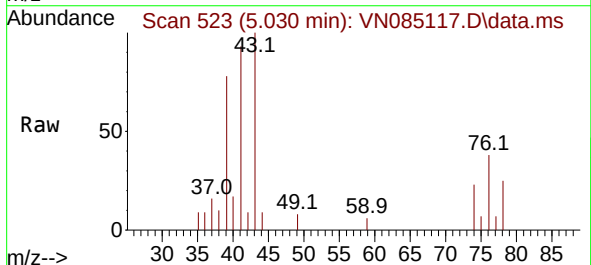
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

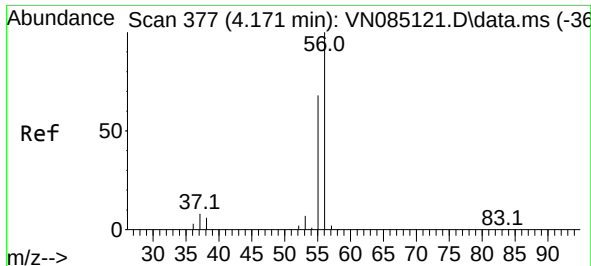
Tgt Ion:142 Resp: 5932
Ion Ratio Lower Upper
142 100
127 44.0 22.5 67.5
141 18.6 8.3 24.9



#12
Methyl Acetate
Concen: 4.734 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 43 Resp: 9920
Ion Ratio Lower Upper
43 100
74 24.0 19.8 29.6





#13

Acrolein

Concen: 24.630 ug/l

RT: 4.189 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

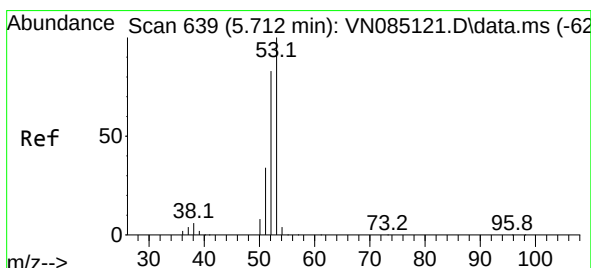
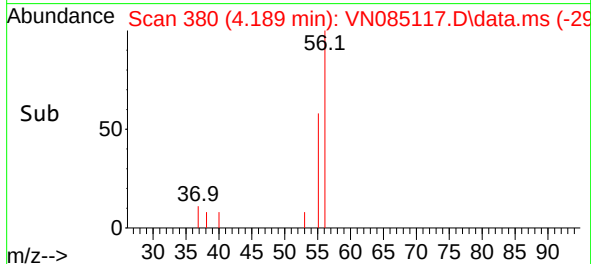
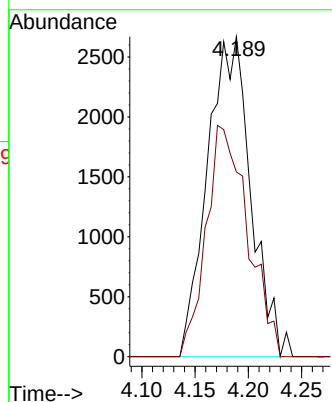
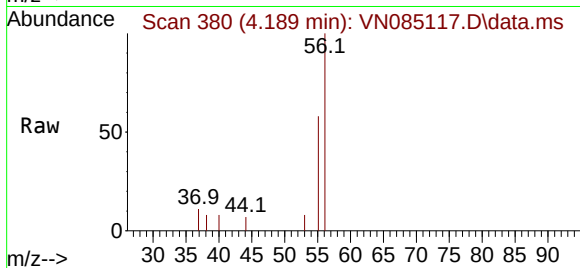
VSTDIC005

Tgt Ion: 56 Resp: 7501

Ion Ratio Lower Upper

56 100

55 63.5 59.4 89.0



#14

Acrylonitrile

Concen: 8.875 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.012 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

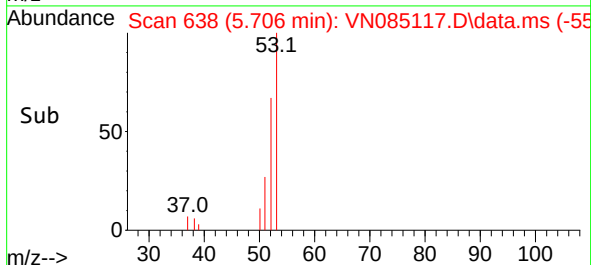
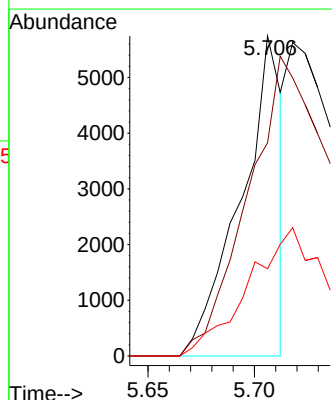
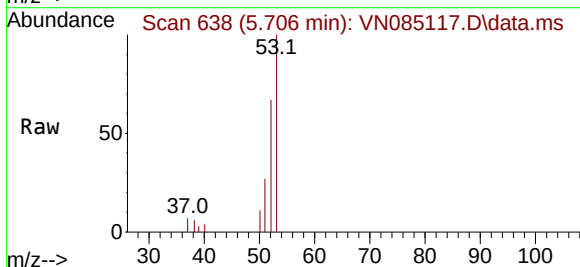
Tgt Ion: 53 Resp: 7723

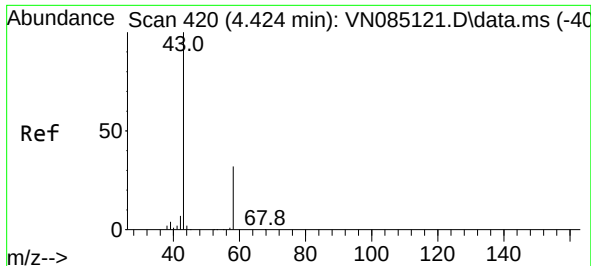
Ion Ratio Lower Upper

53 100

52 210.1 42.9 128.5#

51 85.9 17.2 51.5#





#15

Acetone

Concen: 22.365 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.006 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

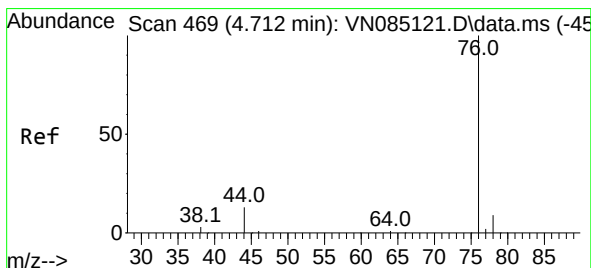
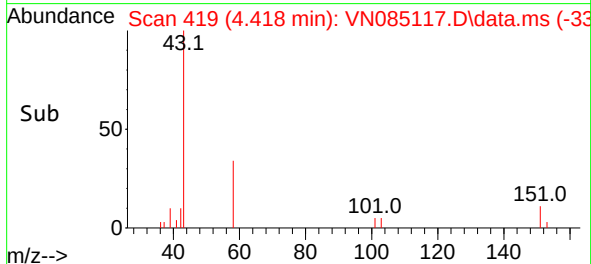
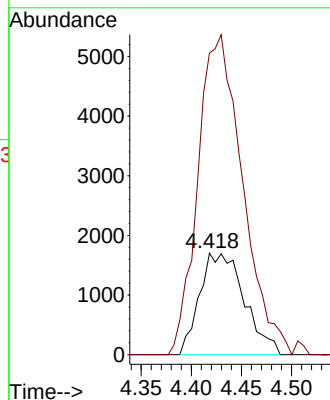
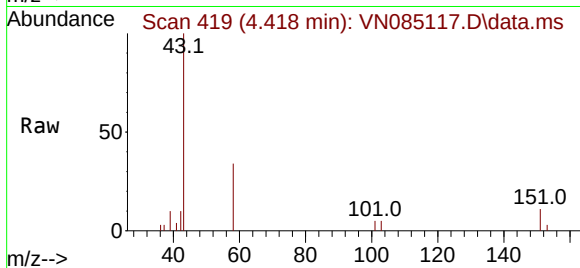
VSTDICC005

Tgt Ion: 58 Resp: 5274

Ion Ratio Lower Upper

58 100

43 274.0 242.3 363.5



#16

Carbon Disulfide

Concen: 4.923 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN085117.D

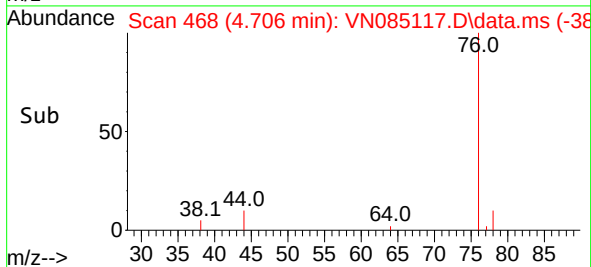
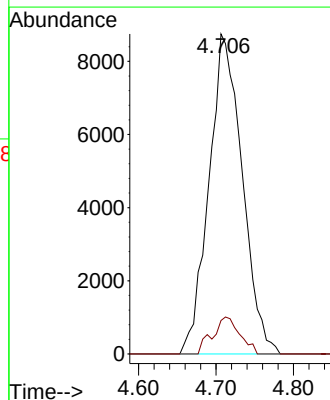
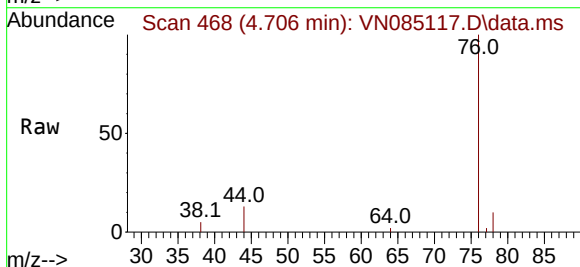
Acq: 06 Dec 2024 10:02

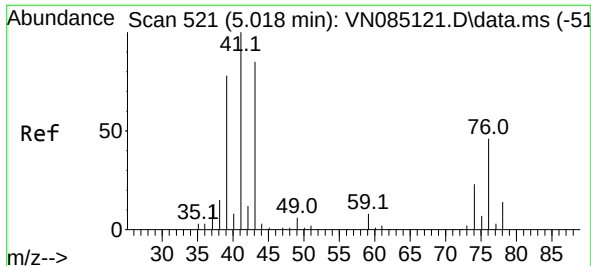
Tgt Ion: 76 Resp: 26140

Ion Ratio Lower Upper

76 100

78 10.5 7.1 10.7





#17

Allyl chloride

Concen: 4.476 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

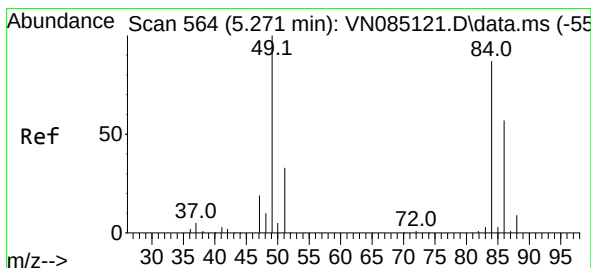
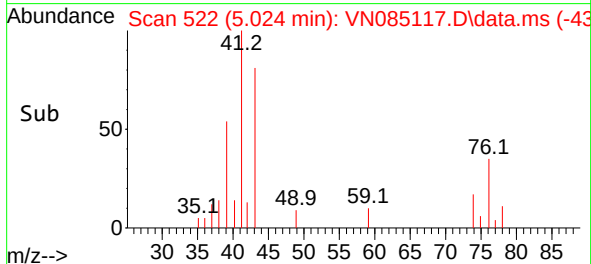
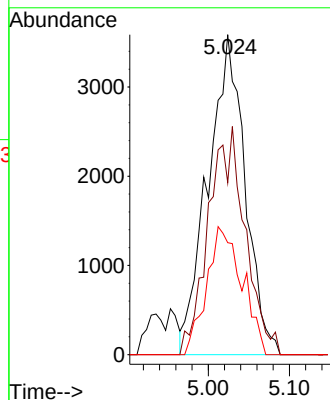
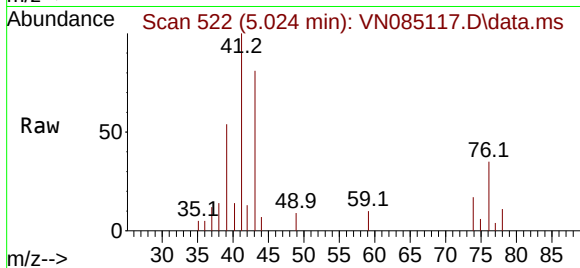
Tgt Ion: 41 Resp: 11376

Ion Ratio Lower Upper

41 100

39 53.7 32.0 96.2

76 35.0 20.2 60.5



#18

Methylene Chloride

Concen: 5.302 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Tgt Ion: 84 Resp: 10687

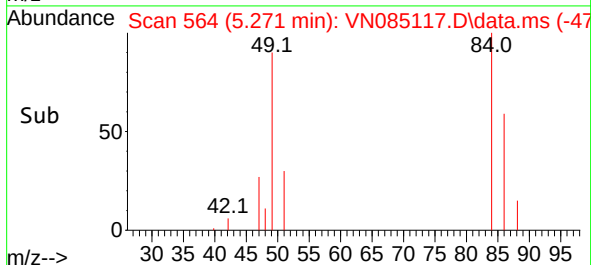
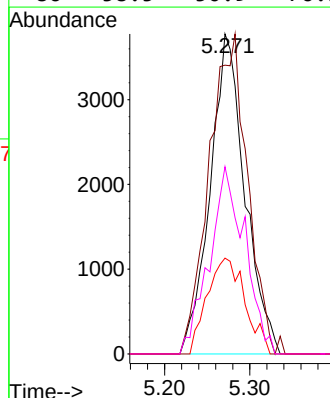
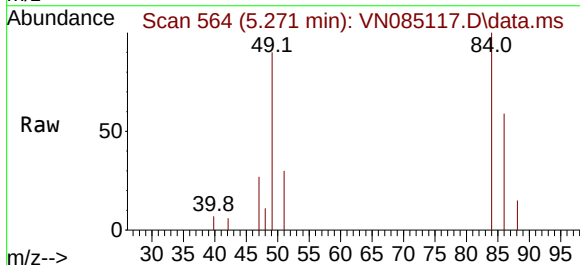
Ion Ratio Lower Upper

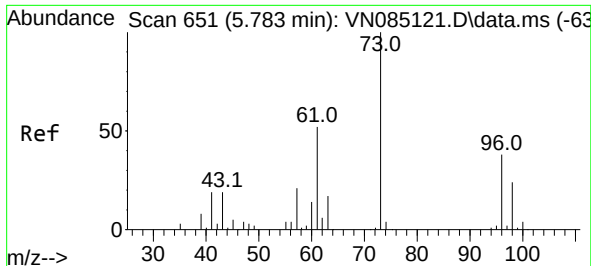
84 100

49 90.3 95.1 142.7#

51 30.0 27.4 41.0

86 58.5 50.9 76.3

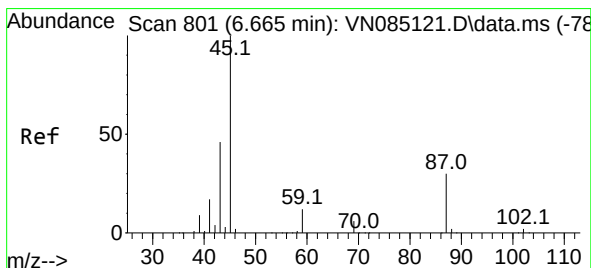
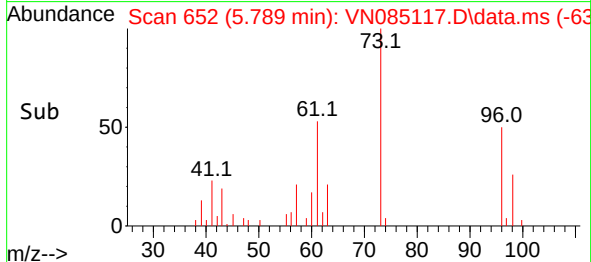
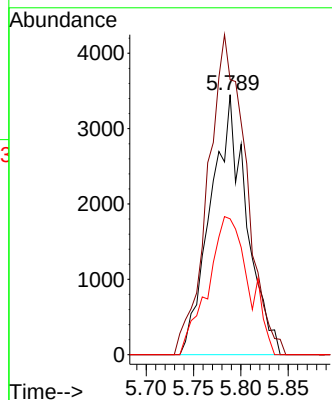
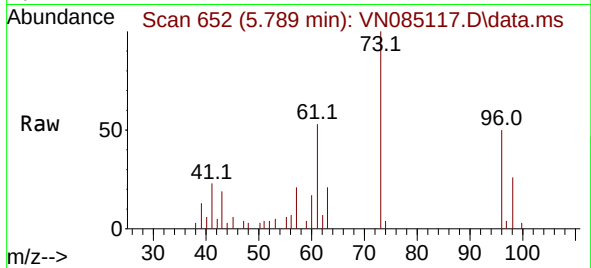




#19
trans-1,2-Dichloroethene
Concen: 4.938 ug/l
RT: 5.789 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

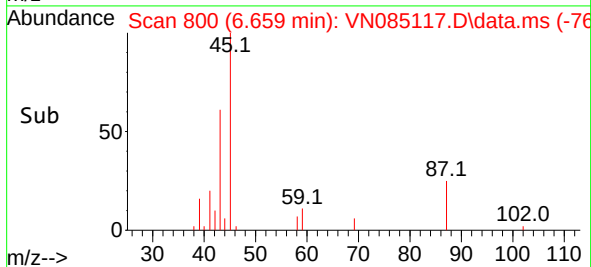
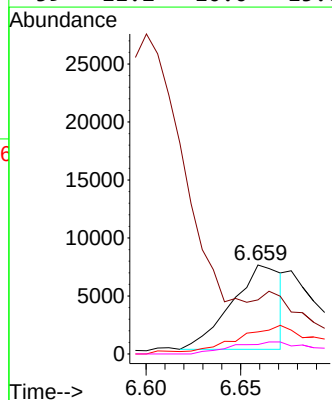
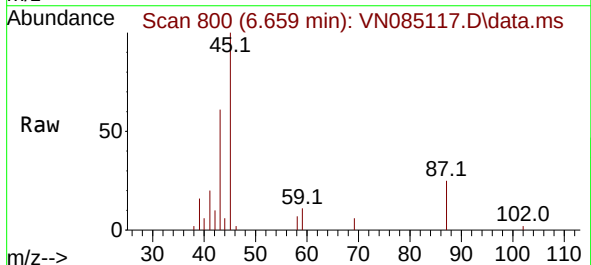
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

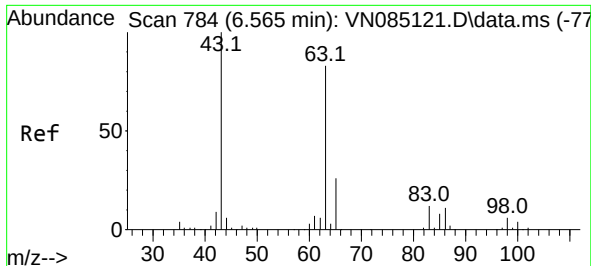
Tgt Ion: 96 Resp: 9118
Ion Ratio Lower Upper
96 100
61 99.9 100.4 150.6#
98 52.3 52.6 79.0#



#20
Diisopropyl ether
Concen: 2.368 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 45 Resp: 13210
Ion Ratio Lower Upper
45 100
43 0.0 41.9 62.9#
87 23.4 24.1 36.1#
59 11.2 10.0 15.0

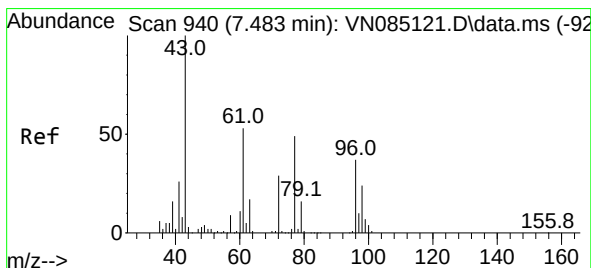
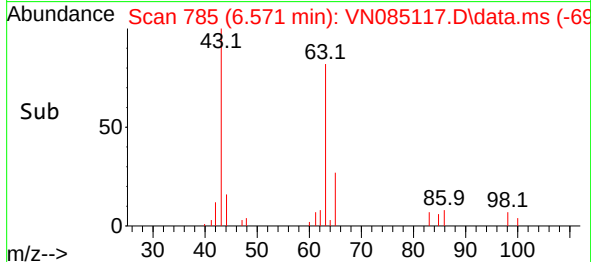
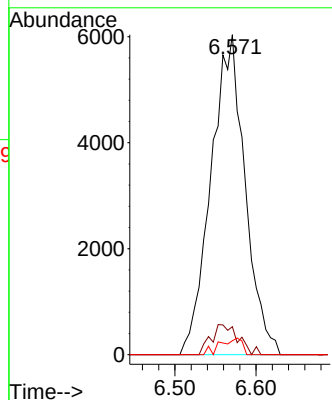
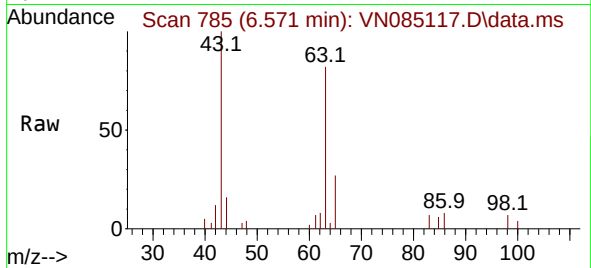




#21
1,1-Dichloroethane
Concen: 5.113 ug/l
RT: 6.571 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

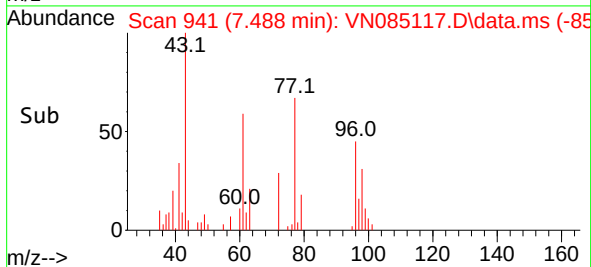
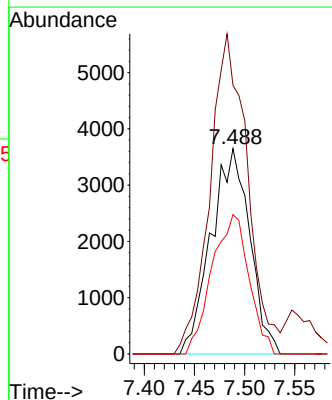
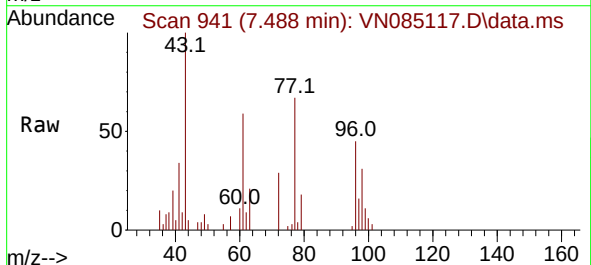
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

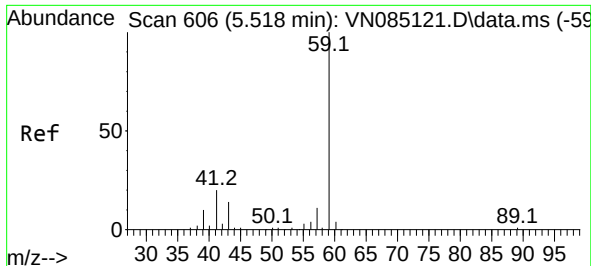
Tgt Ion: 63 Resp: 17605
Ion Ratio Lower Upper
63 100
98 8.8 3.5 10.4
100 4.4 1.6 4.8



#22
cis-1,2-Dichloroethene
Concen: 4.606 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 96 Resp: 9776
Ion Ratio Lower Upper
96 100
61 151.1 115.9 173.9
98 65.0 51.8 77.8

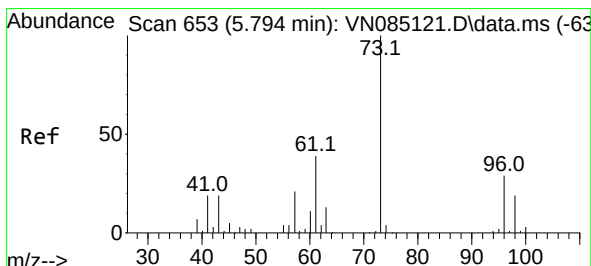
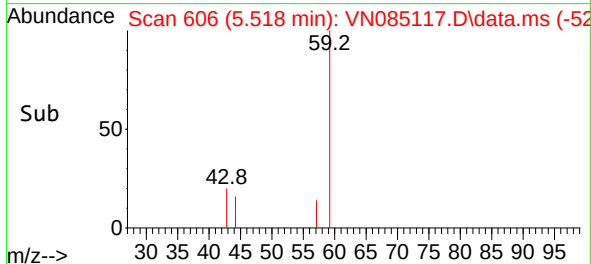
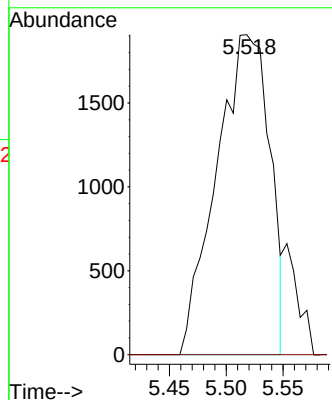
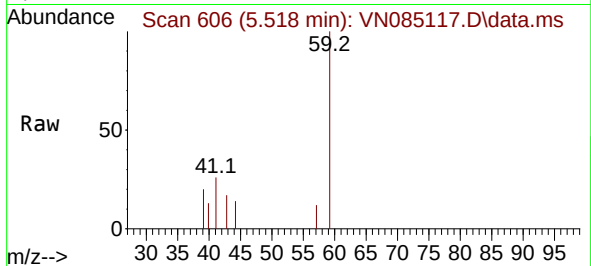




#23
tert-Butyl Alcohol
Concen: 19.957 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

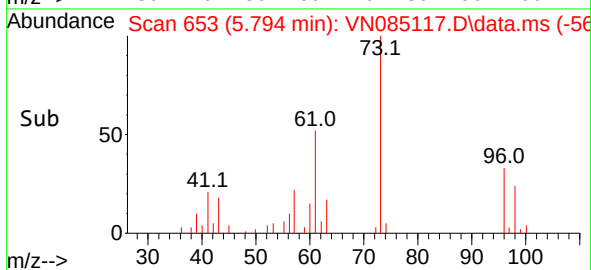
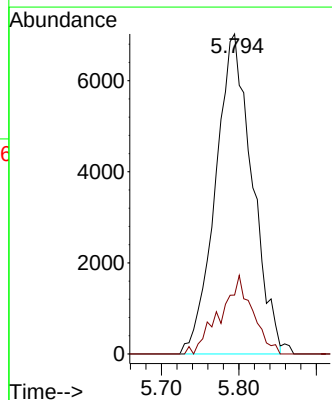
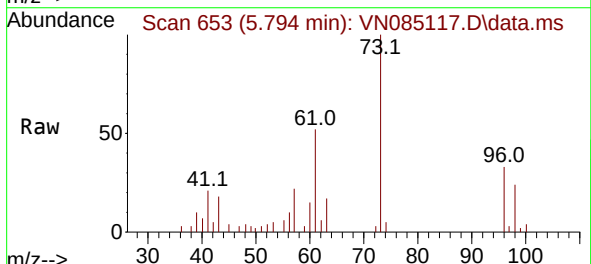
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

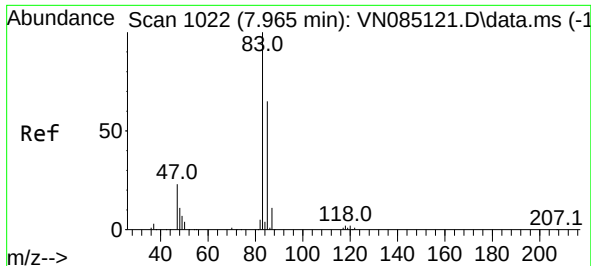
Tgt Ion: 59 Resp: 6230
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 4.159 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 73 Resp: 23064
Ion Ratio Lower Upper
73 100
43 21.2 8.7 13.1#

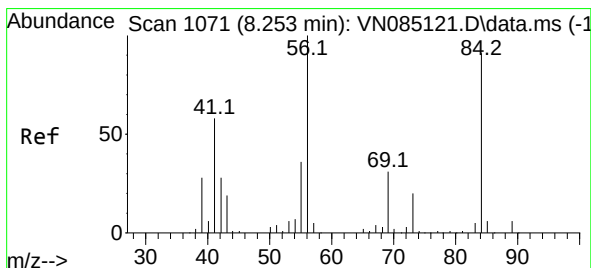
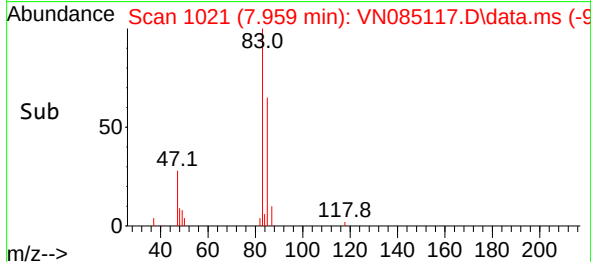
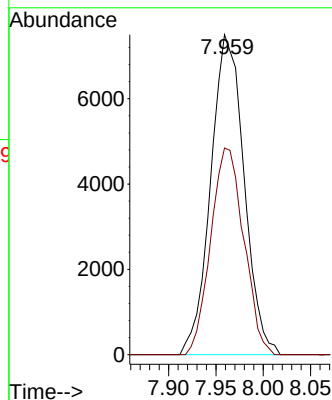
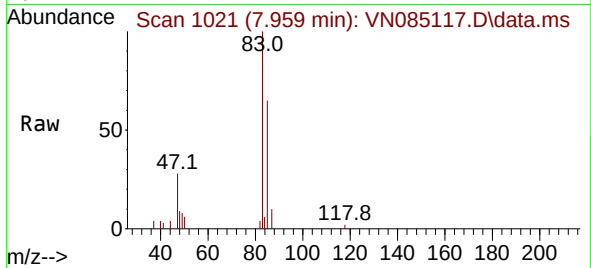




#25
Chloroform
Concen: 5.094 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

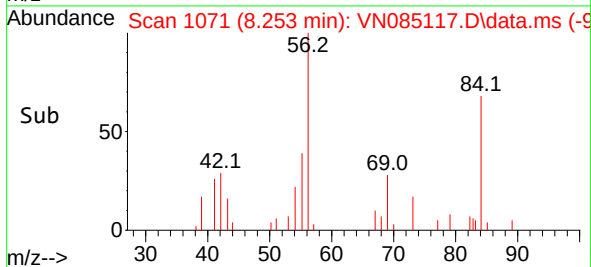
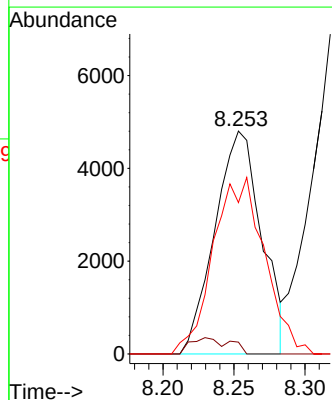
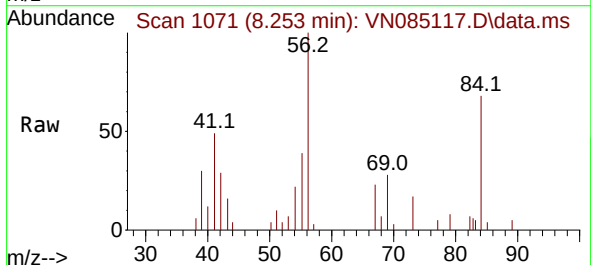
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

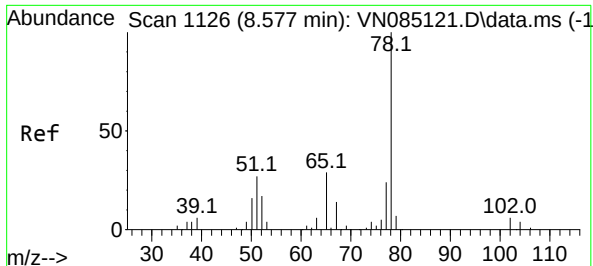
Tgt Ion: 83 Resp: 18374
Ion Ratio Lower Upper
83 100
85 64.6 49.4 74.0



#26
Cyclohexane
Concen: 3.885 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 56 Resp: 11013
Ion Ratio Lower Upper
56 100
89 1.7 19.5 29.3#
84 86.7 70.6 105.8

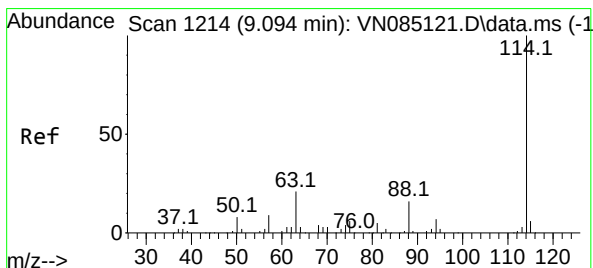
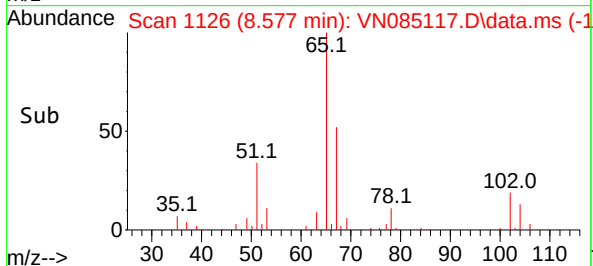
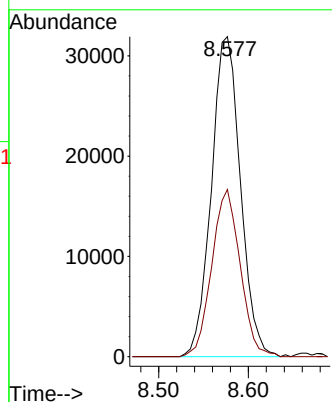
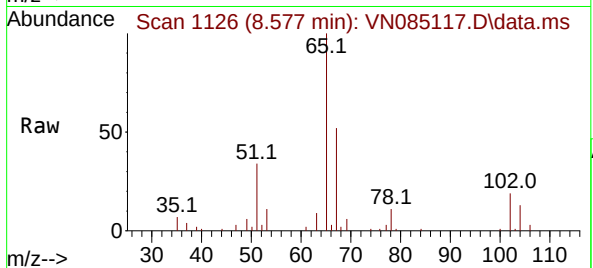




#27
 1,2-Dichloroethane-d4
 Concen: 31.025 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

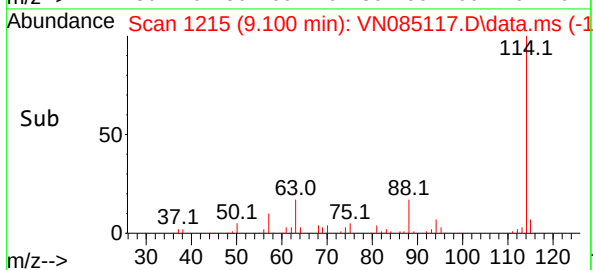
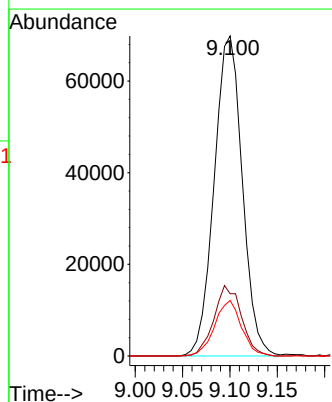
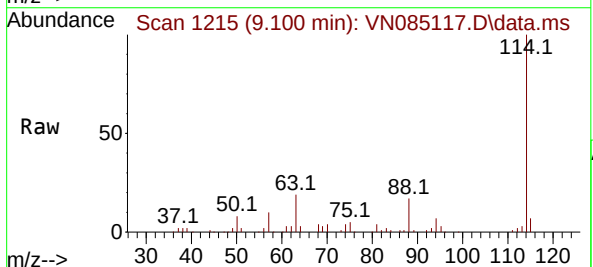
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

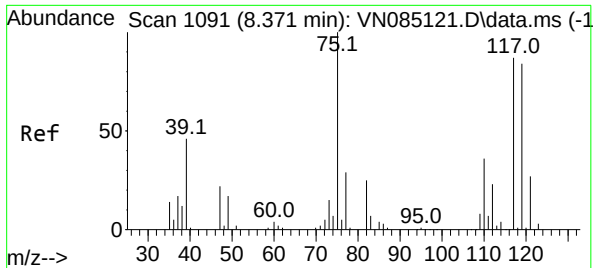
Tgt Ion: 65 Resp: 71806
 Ion Ratio Lower Upper
 65 100
 67 51.0 39.9 59.9



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Tgt Ion: 114 Resp: 144230
 Ion Ratio Lower Upper
 114 100
 63 21.5 16.2 24.2
 88 16.5 12.5 18.7

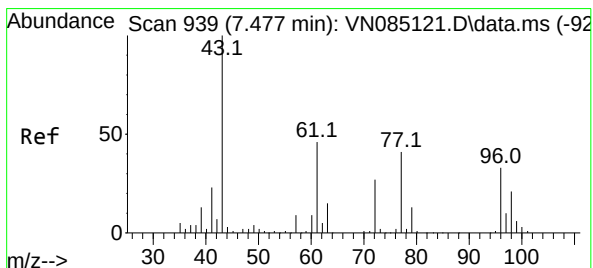
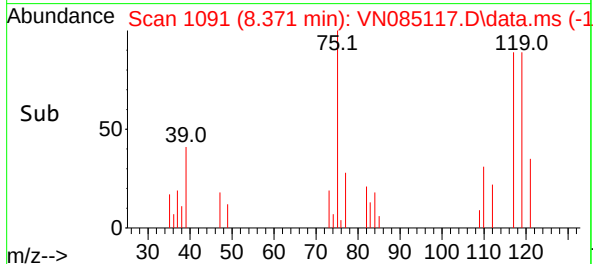
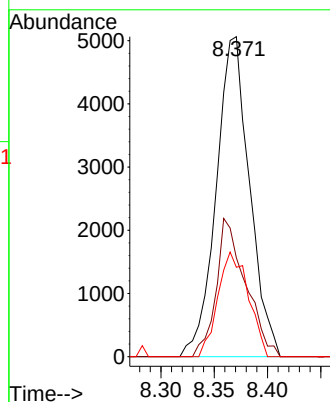
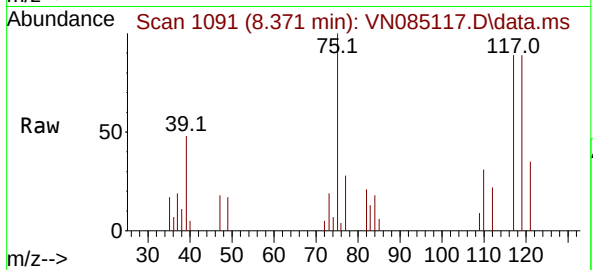




#29
1,1-Dichloropropene
Concen: 4.731 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

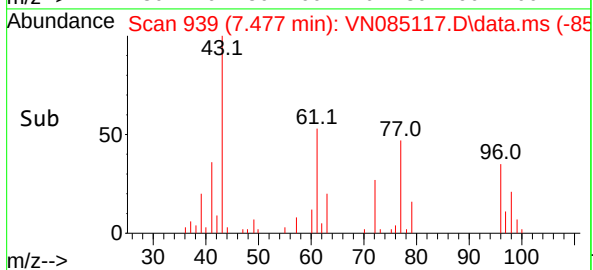
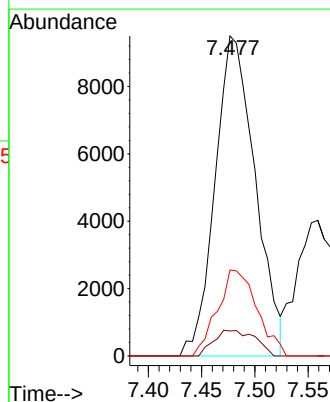
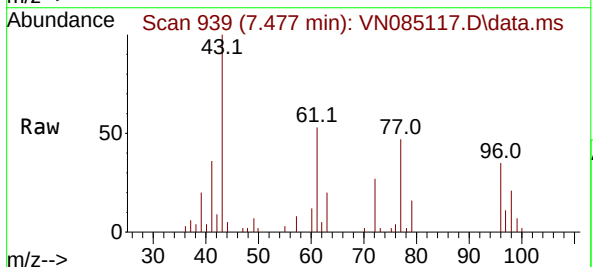
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

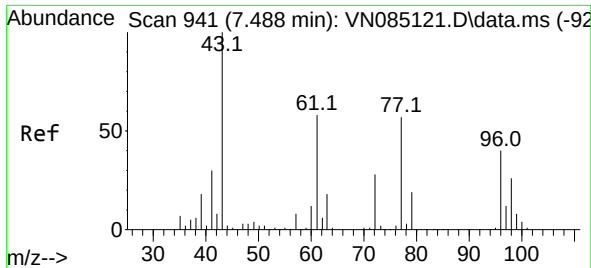
Tgt Ion:	75	Resp:	11010
Ion	Ratio	Lower	Upper
75	100		
110	38.1	0.0	71.6
77	29.9	0.0	62.2



#30
2-Butanone
Concen: 23.275 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:	43	Resp:	24858
Ion	Ratio	Lower	Upper
43	100		
57	5.7	6.9	10.3#
72	26.5	21.8	32.8

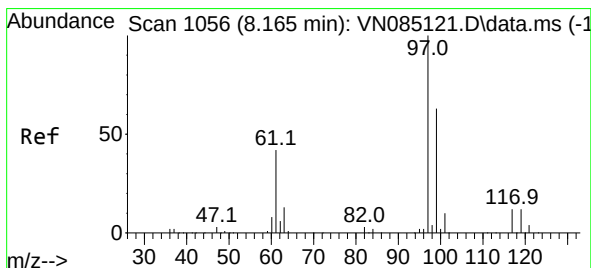
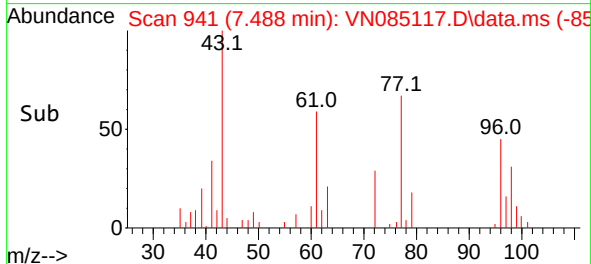
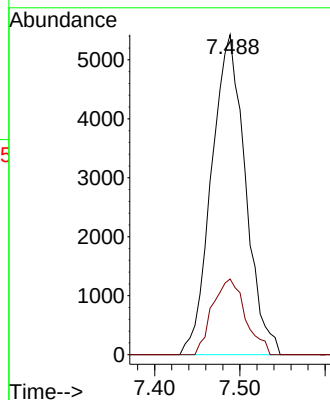
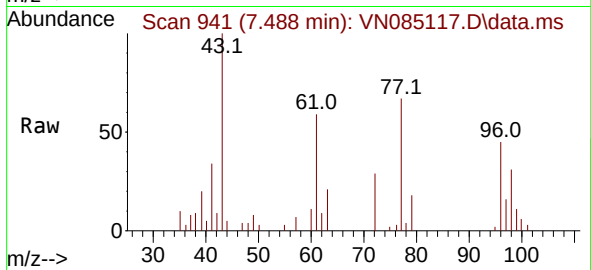




#31
2,2-Dichloropropane
Concen: 5.023 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

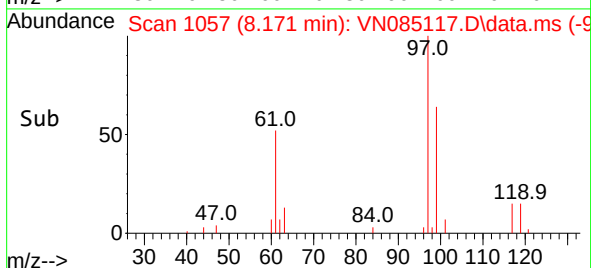
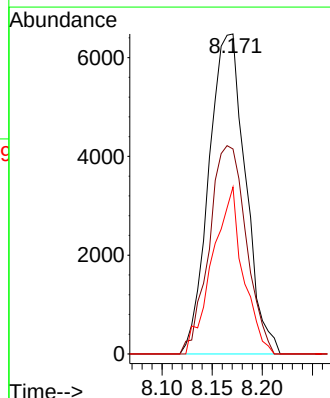
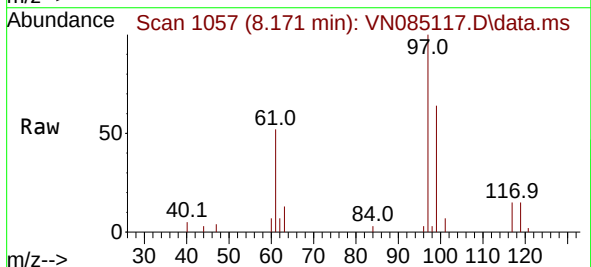
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

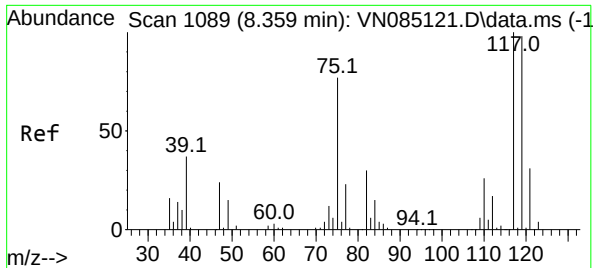
Tgt Ion: 77 Resp: 14990
Ion Ratio Lower Upper
77 100
97 23.0 0.0 0.0#



#32
1,1,1-Trichloroethane
Concen: 5.216 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 97 Resp: 16430
Ion Ratio Lower Upper
97 100
99 66.0 50.8 76.2
61 44.0 32.7 49.1

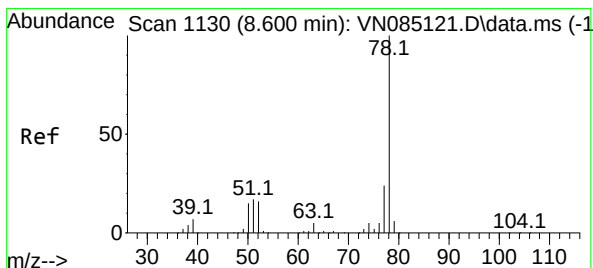
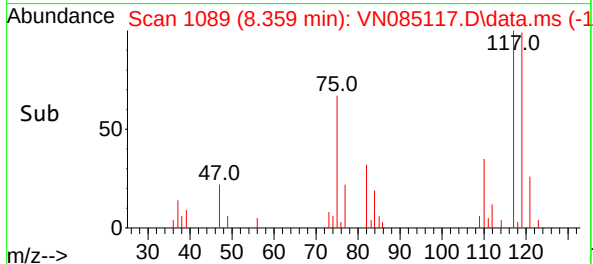
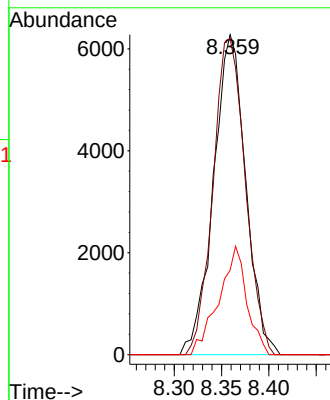
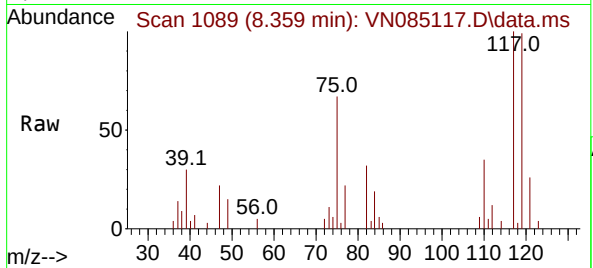




#33
Carbon Tetrachloride
Concen: 5.233 ug/l
RT: 8.359 min Scan# 1109
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

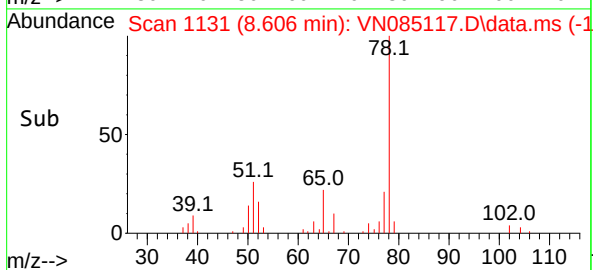
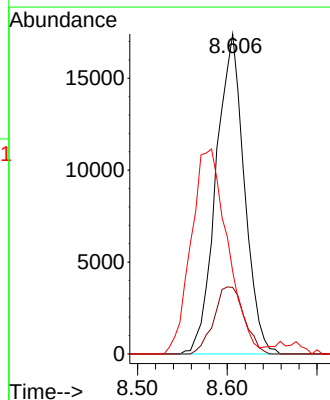
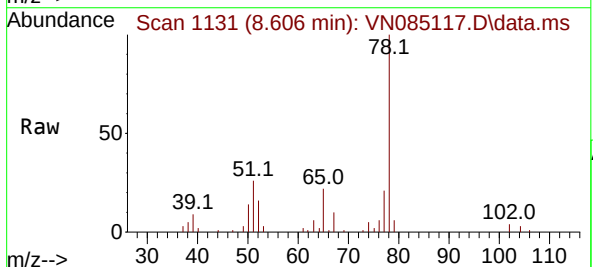
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

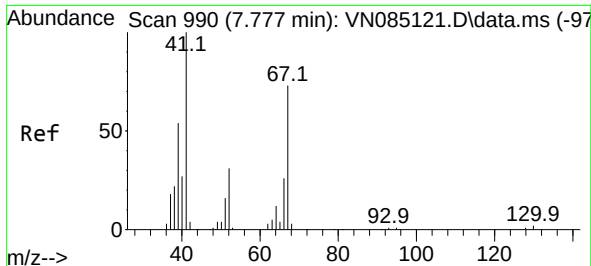
Tgt Ion:117 Resp: 14874
Ion Ratio Lower Upper
117 100
119 98.9 81.6 122.4
121 26.4 26.5 39.7#



#34
Benzene
Concen: 5.199 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 78 Resp: 38013
Ion Ratio Lower Upper
78 100
77 20.8 18.0 27.0
51 21.8 12.4 18.6#

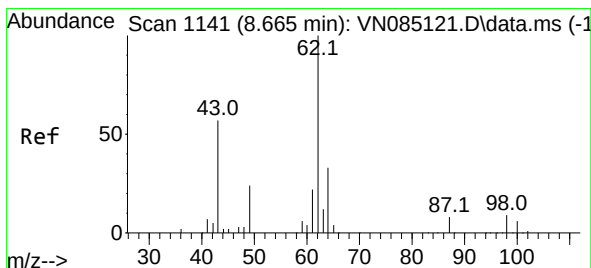
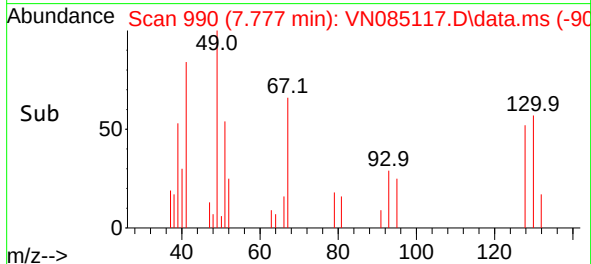
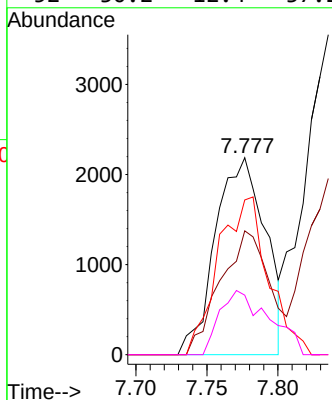
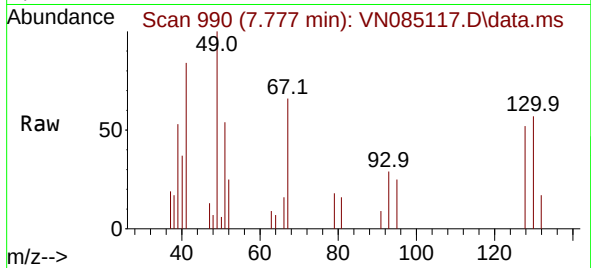




#35
Methacrylonitrile
Concen: 4.455 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

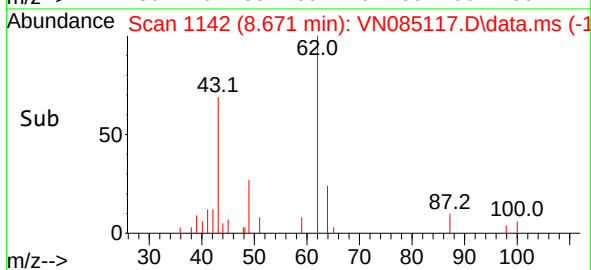
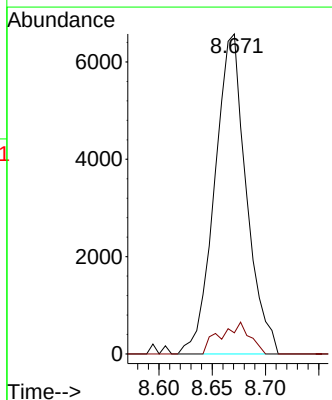
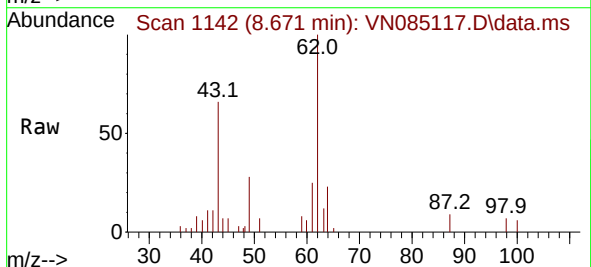
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

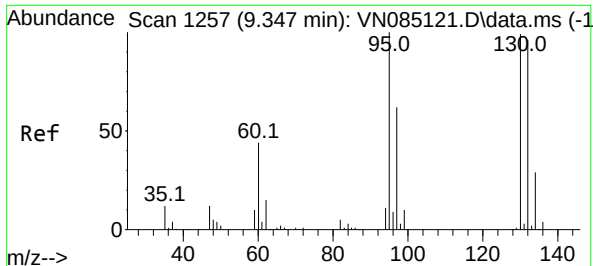
Tgt Ion:	41	Resp:	5355
Ion	Ratio	Lower	Upper
41	100		
39	62.8	24.4	73.2
67	78.5	37.0	110.9
52	30.2	12.4	37.2



#36
1,2-Dichloroethane
Concen: 5.451 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:	62	Resp:	13568
Ion	Ratio	Lower	Upper
62	100		
98	6.4	7.3	10.9#

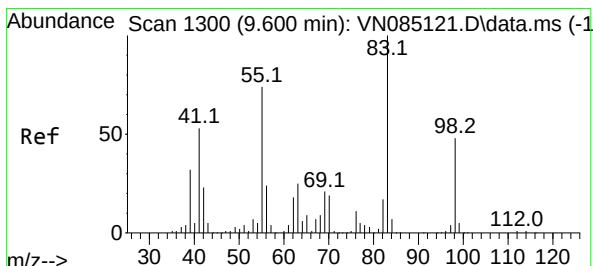
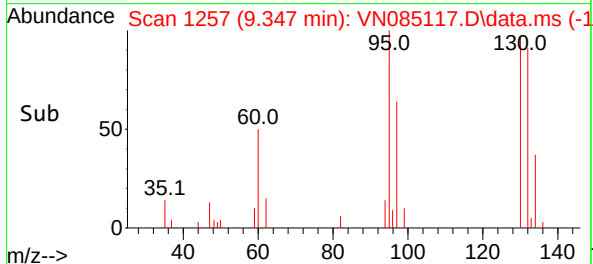
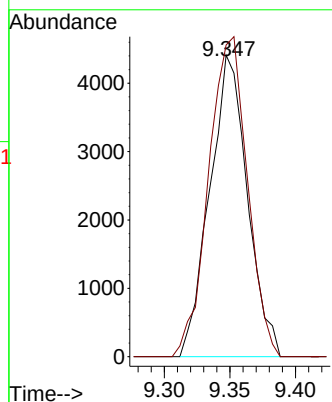
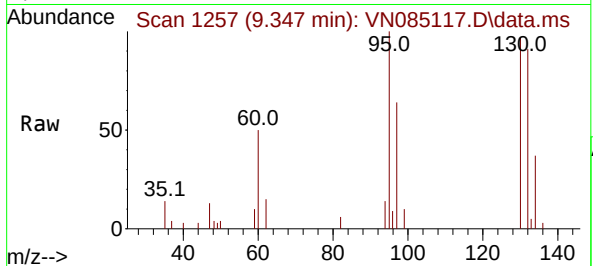




#37
Trichloroethene
Concen: 5.067 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

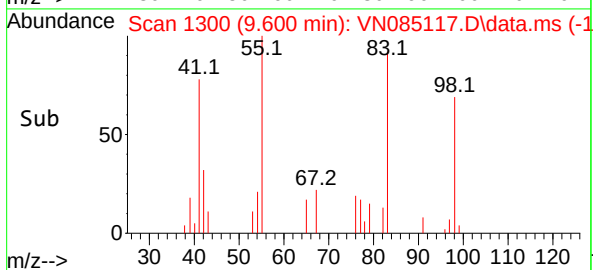
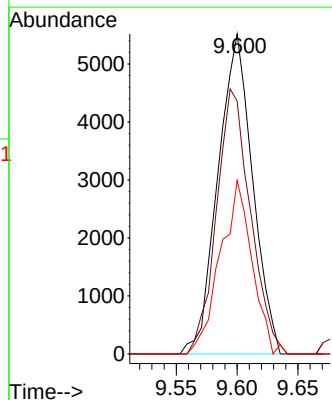
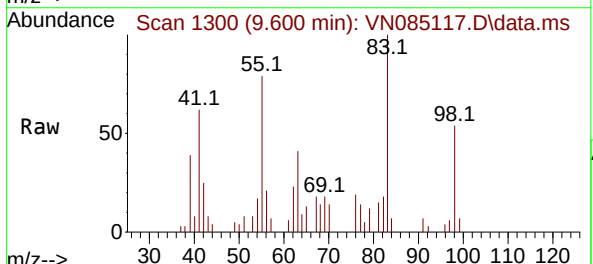
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

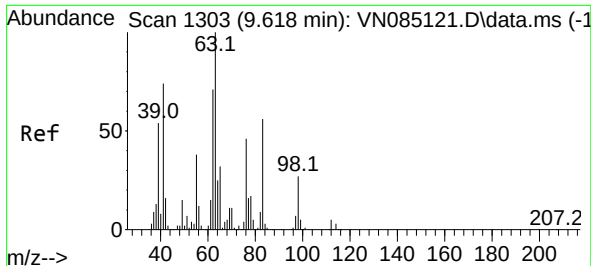
Tgt Ion:130 Resp: 8822
Ion Ratio Lower Upper
130 100
95 103.3 76.2 114.4



#38
Methylcyclohexane
Concen: 4.304 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 83 Resp: 10891
Ion Ratio Lower Upper
83 100
55 81.5 41.4 124.4
98 49.3 25.7 77.1

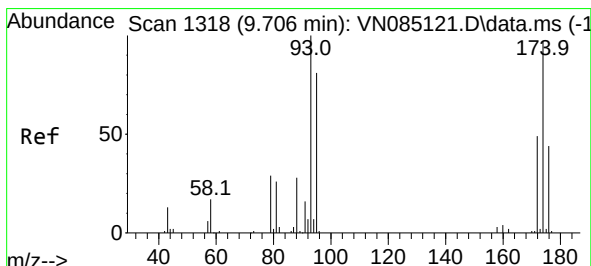
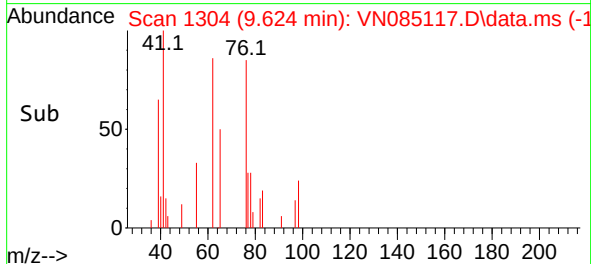
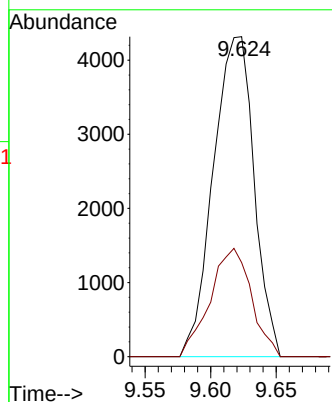
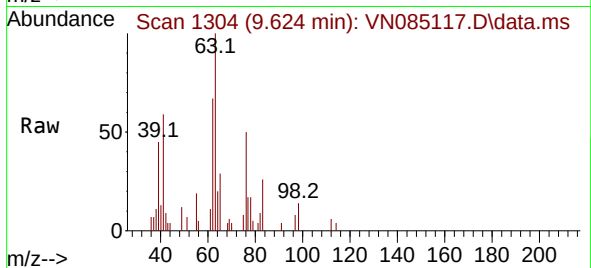




#39
1,2-Dichloropropane
Concen: 5.273 ug/l
RT: 9.624 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

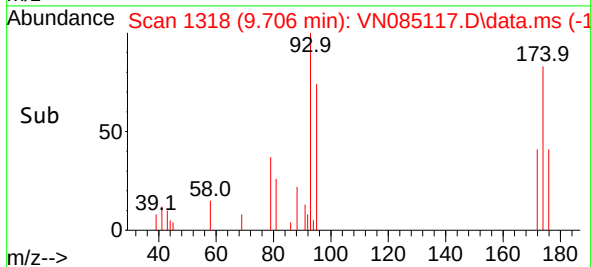
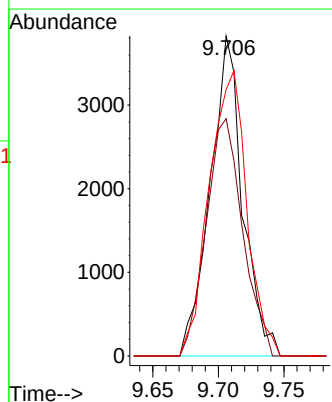
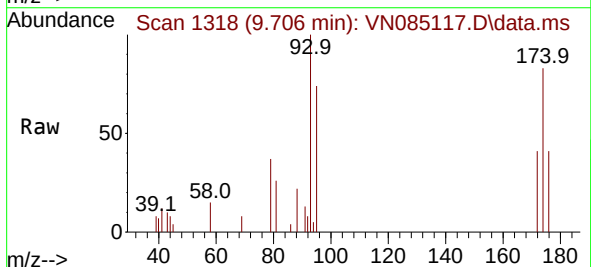
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

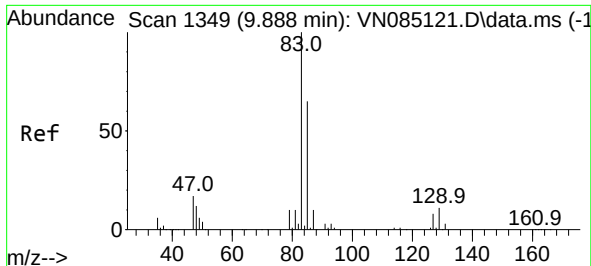
Tgt Ion: 63 Resp: 9337
Ion Ratio Lower Upper
63 100
65 29.4 23.4 35.0



#40
Dibromomethane
Concen: 5.194 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 93 Resp: 6598
Ion Ratio Lower Upper
93 100
95 83.4 0.0 169.4
174 103.1 0.0 189.8

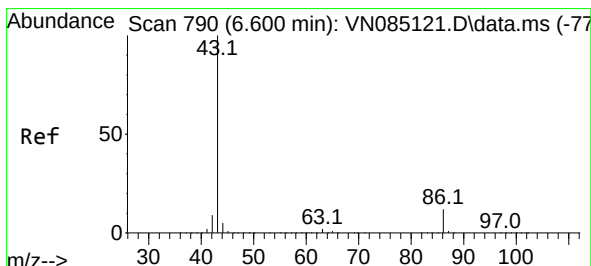
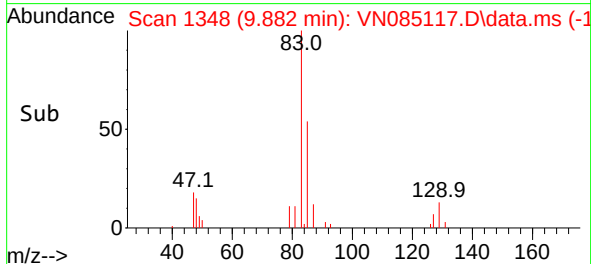
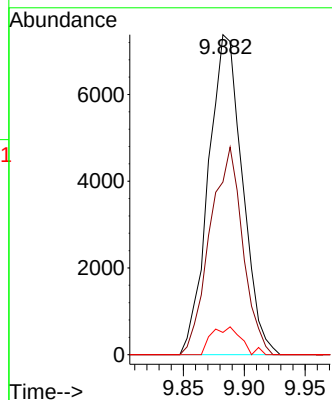
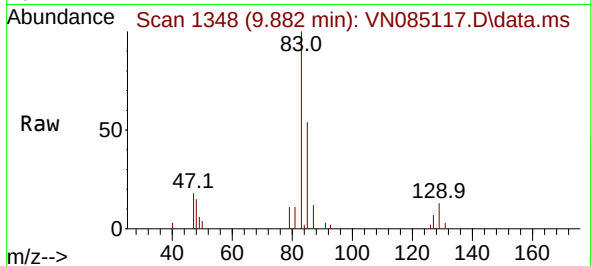




#41
Bromodichloromethane
Concen: 5.278 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

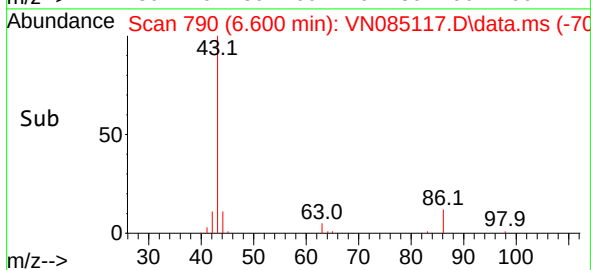
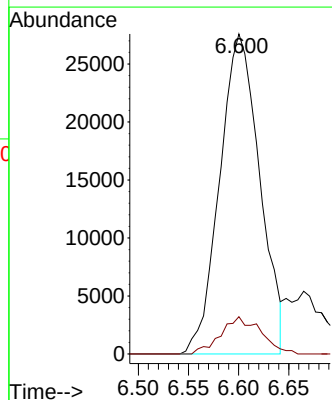
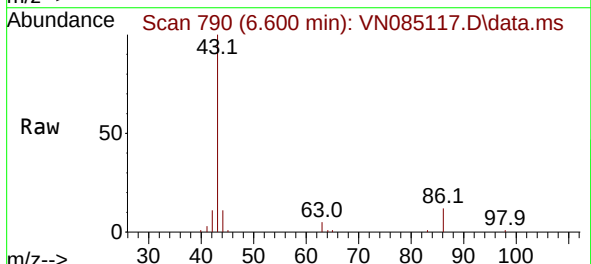
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

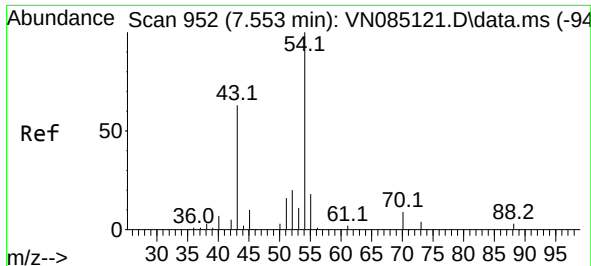
Tgt Ion: 83 Resp: 14332
Ion Ratio Lower Upper
83 100
85 54.0 54.6 81.8#
127 7.0 7.0 10.6#



#42
Vinyl Acetate
Concen: 20.505 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 43 Resp: 76634
Ion Ratio Lower Upper
43 100
86 5.7 9.2 13.8#





#43

Ethyl Acetate

Concen: 4.927 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

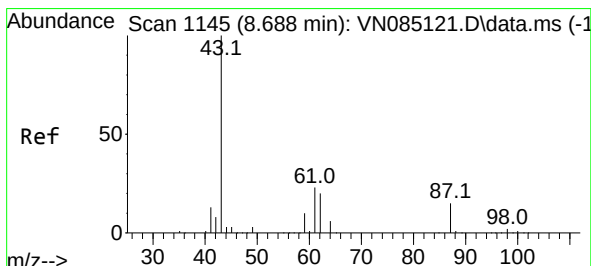
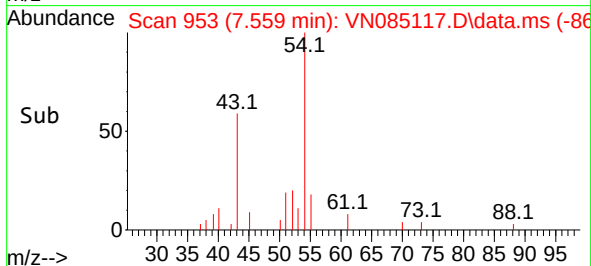
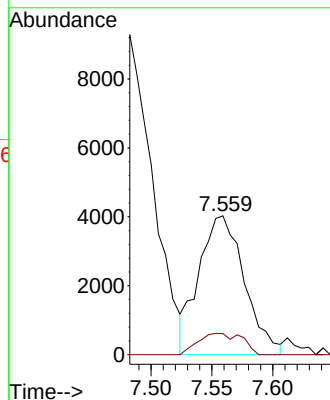
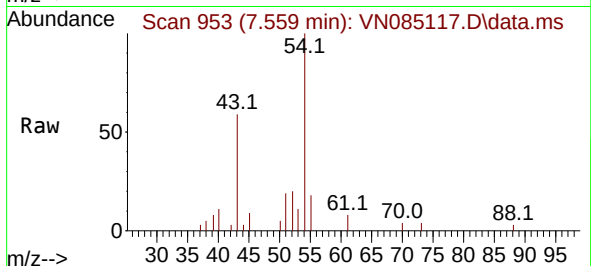
VSTDICC005

Tgt Ion: 43 Resp: 10470

Ion Ratio Lower Upper

43 100

45 10.6 13.3 19.9#



#44

Isopropyl Acetate

Concen: 4.817 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN085117.D

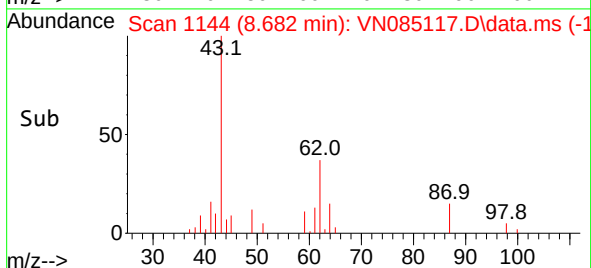
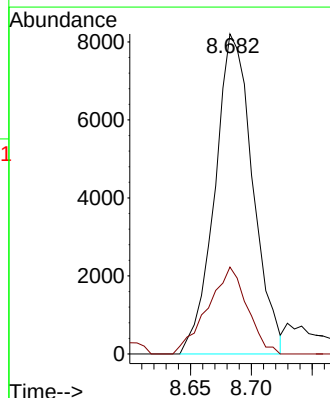
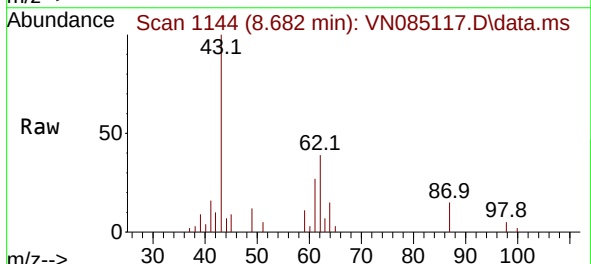
Acq: 06 Dec 2024 10:02

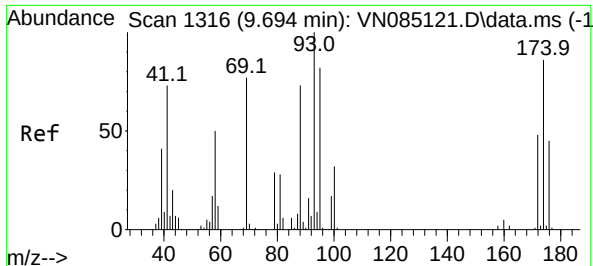
Tgt Ion: 43 Resp: 17789

Ion Ratio Lower Upper

43 100

61 28.1 21.5 32.3

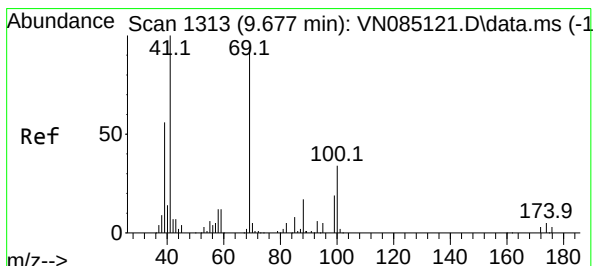
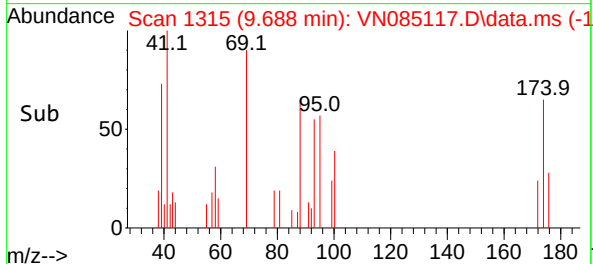
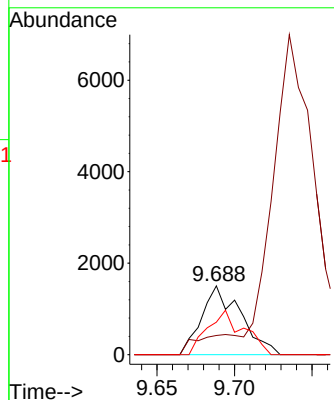
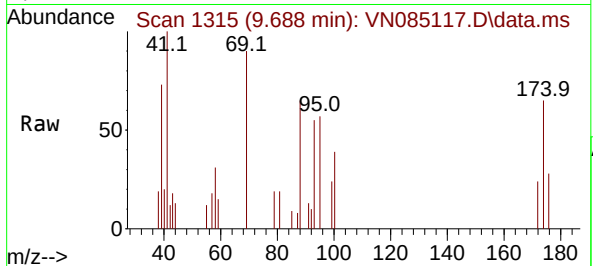




#45
1,4-Dioxane
Concen: 85.662 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

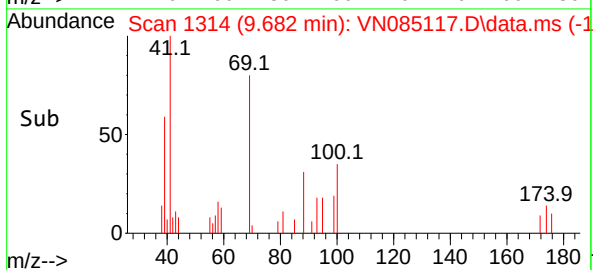
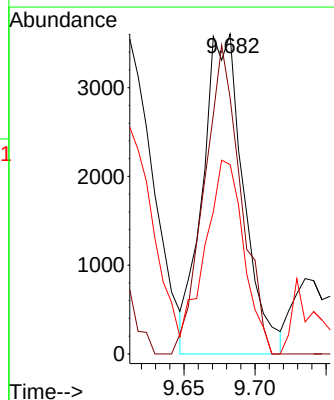
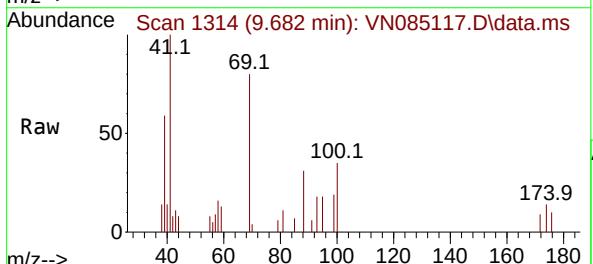
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

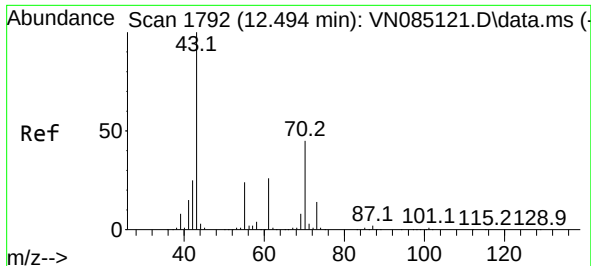
Tgt Ion: 88 Resp: 2638
Ion Ratio Lower Upper
88 100
43 24.8 21.7 32.5
58 42.1 52.6 79.0#



#46
Methyl methacrylate
Concen: 4.258 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 41 Resp: 7196
Ion Ratio Lower Upper
41 100
69 86.1 46.7 140.0
39 63.6 28.5 85.5

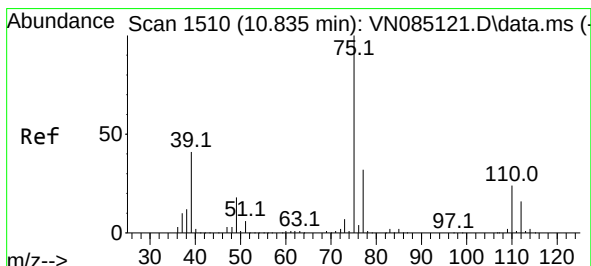
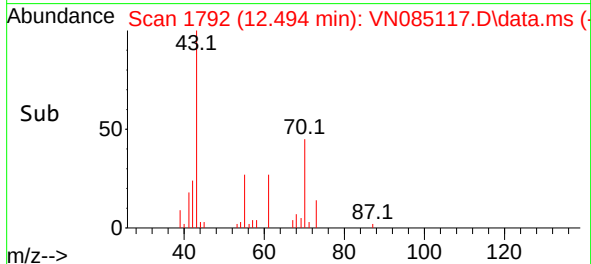
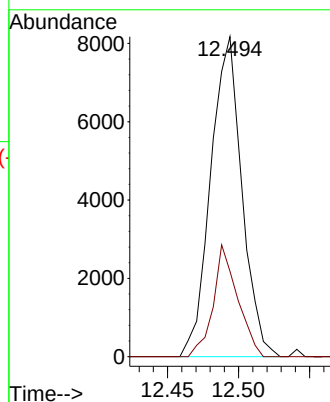
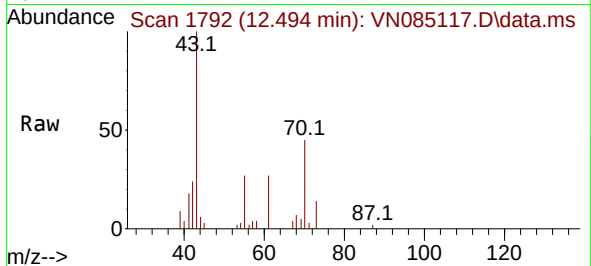




#47
n-amyl acetate
Concen: 4.021 ug/l
RT: 12.494 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

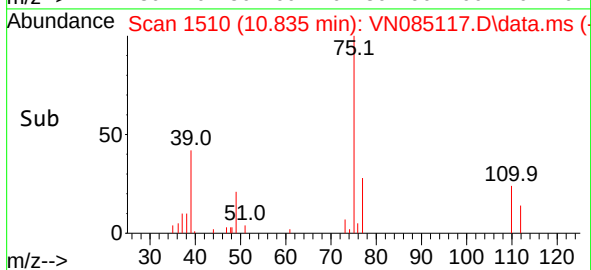
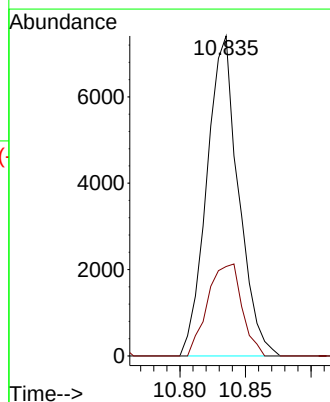
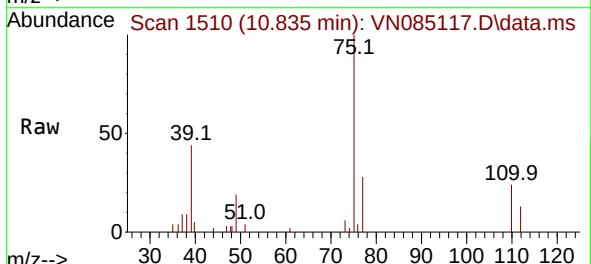
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

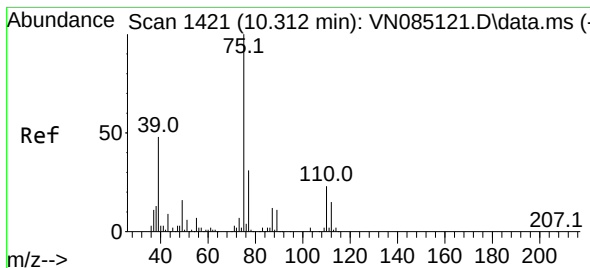
Tgt Ion: 43 Resp: 12494
Ion Ratio Lower Upper
43 100
55 27.3 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 4.675 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 75 Resp: 12463
Ion Ratio Lower Upper
75 100
77 28.0 25.5 38.3

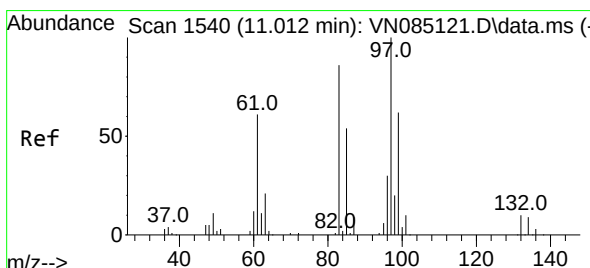
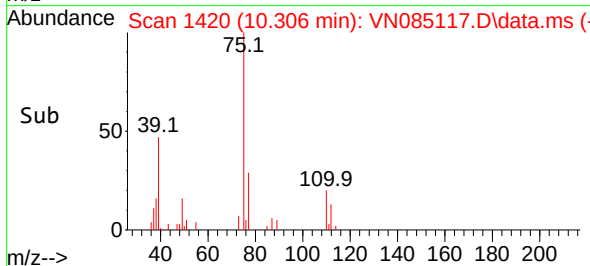
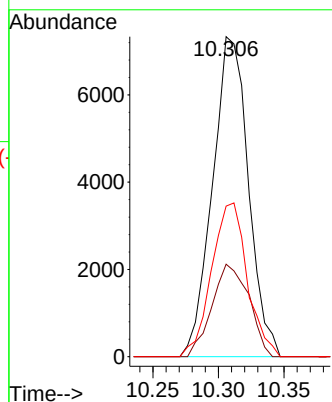
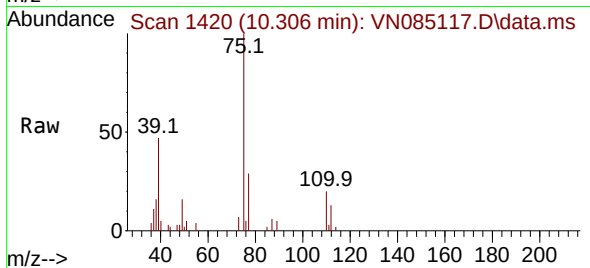




#49
 cis-1,3-Dichloropropene
 Concen: 4.809 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.006 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

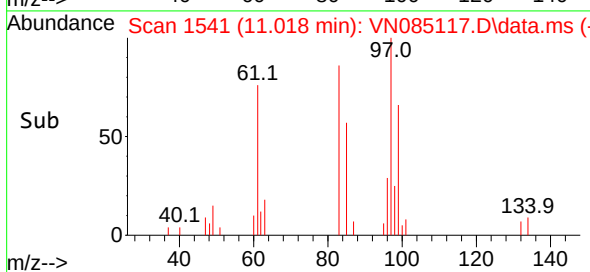
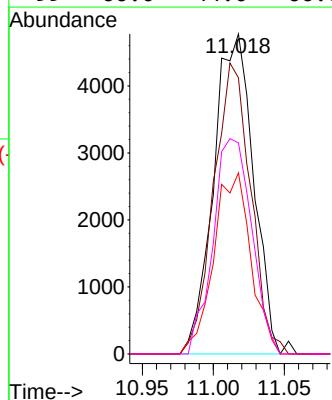
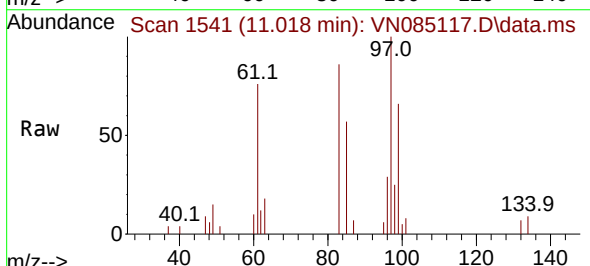
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

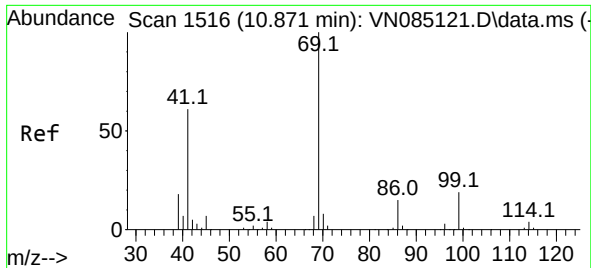
Tgt Ion:	75	Resp:	13955
Ion	Ratio	Lower	Upper
75	100		
77	28.9	23.8	35.6
39	47.0	37.3	55.9



#50
 1,1,2-Trichloroethane
 Concen: 5.429 ug/l
 RT: 11.018 min Scan# 1541
 Delta R.T. 0.006 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Tgt Ion:	97	Resp:	9292
Ion	Ratio	Lower	Upper
97	100		
83	86.3	65.8	98.8
85	56.6	40.8	61.2
99	66.0	44.0	66.0

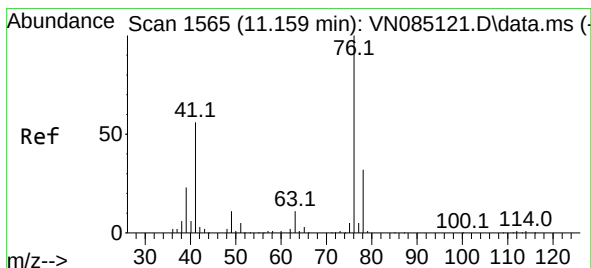
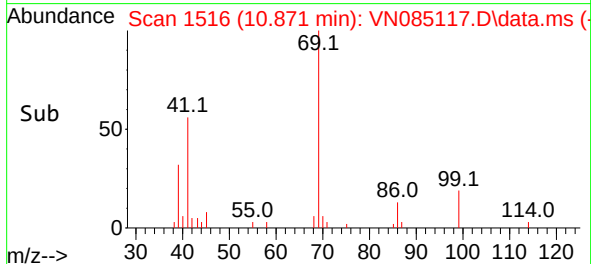
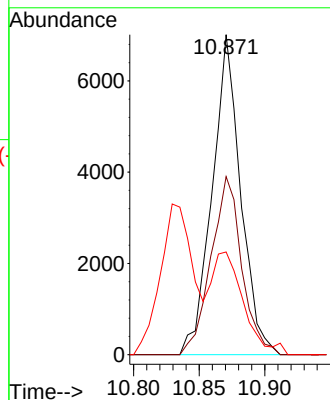
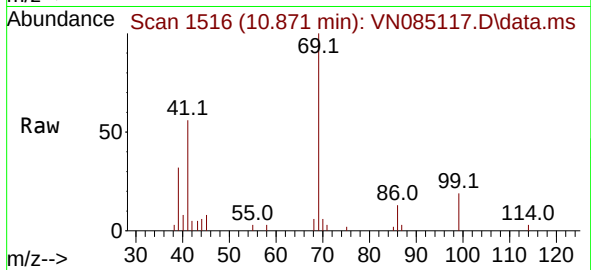




#51
Ethyl methacrylate
Concen: 4.068 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

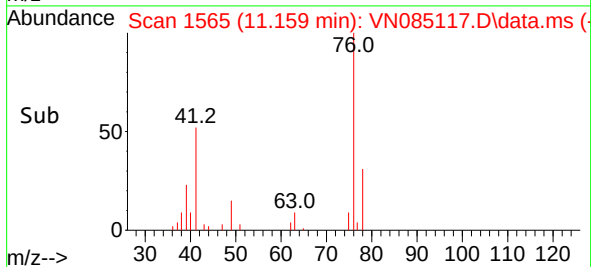
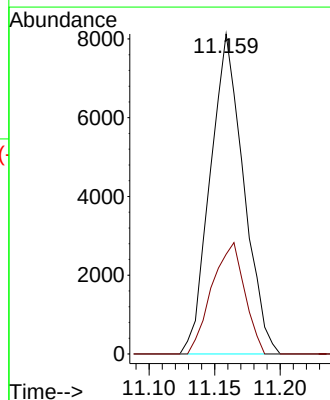
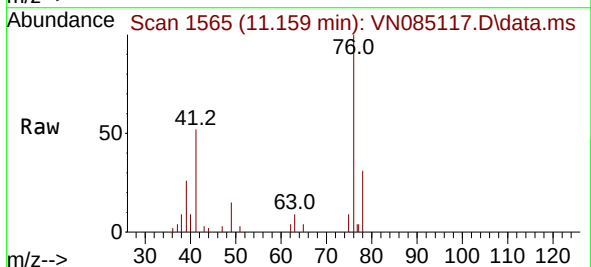
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

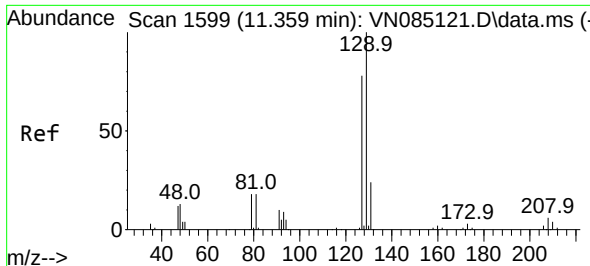
Tgt Ion: 69 Resp: 10590
Ion Ratio Lower Upper
69 100
41 55.7 32.1 96.3
39 28.5 18.8 56.4



#52
1,3-Dichloropropane
Concen: 5.019 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 76 Resp: 14378
Ion Ratio Lower Upper
76 100
78 34.1 0.0 65.6

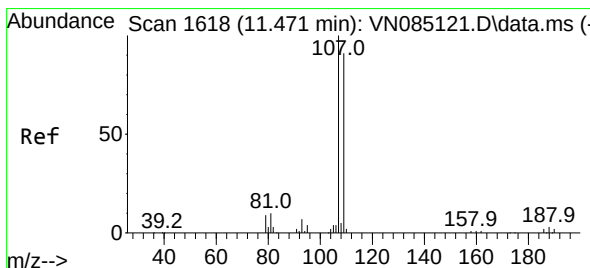
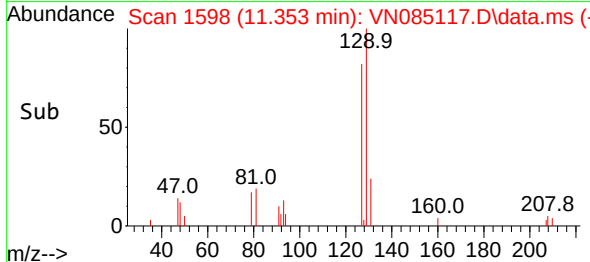
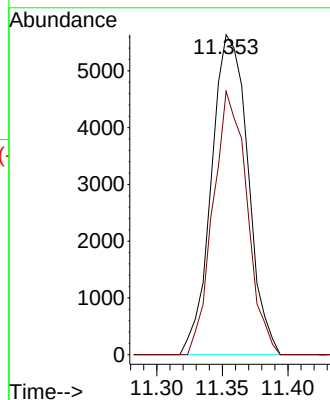
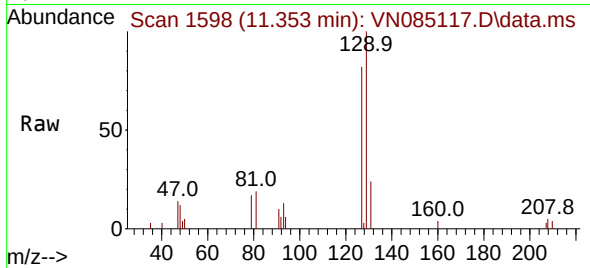




#53
Dibromochloromethane
Concen: 5.246 ug/l
RT: 11.353 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

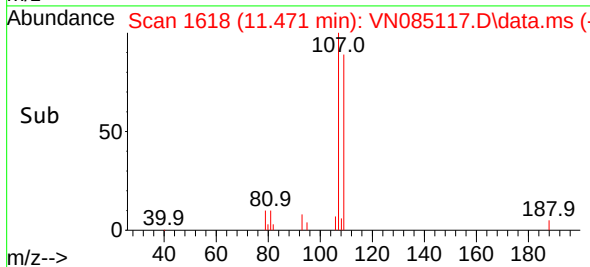
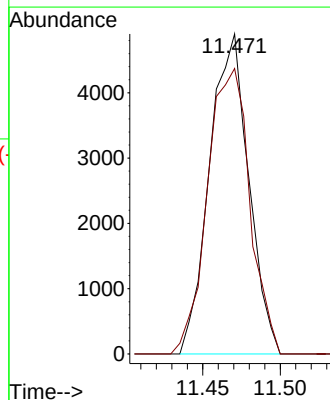
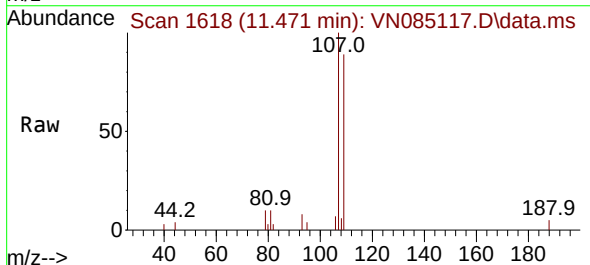
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

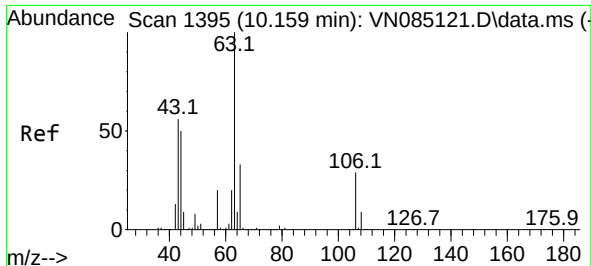
Tgt Ion:129 Resp: 10942
Ion Ratio Lower Upper
129 100
127 76.1 37.3 111.9



#54
1,2-Dibromoethane
Concen: 4.988 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:107 Resp: 8602
Ion Ratio Lower Upper
107 100
109 96.6 75.2 112.8

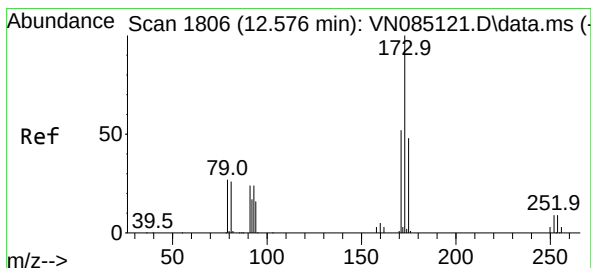
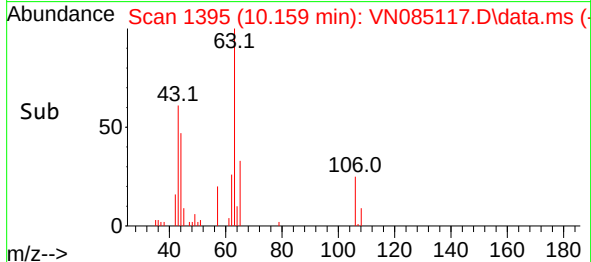
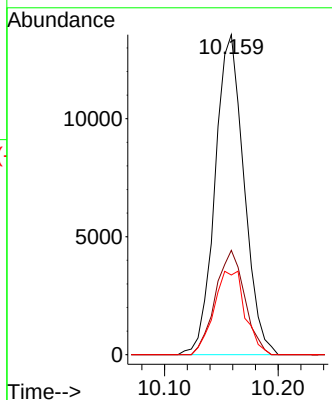
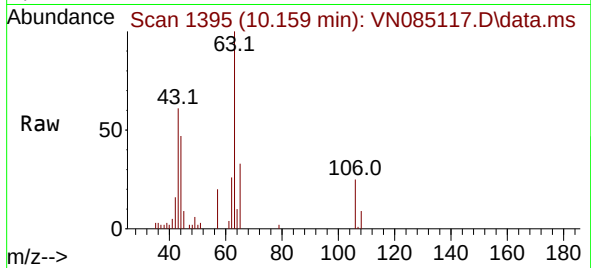




#55
2-Chloroethyl vinyl ether
Concen: 19.844 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

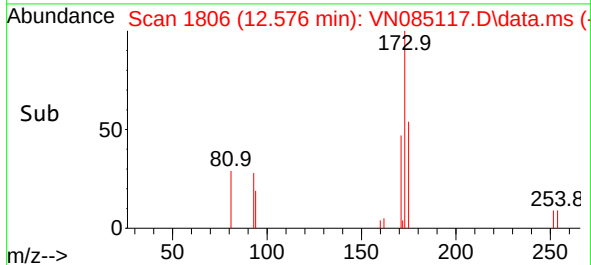
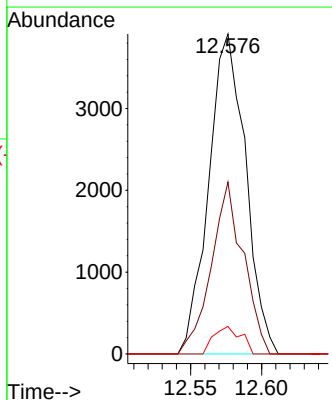
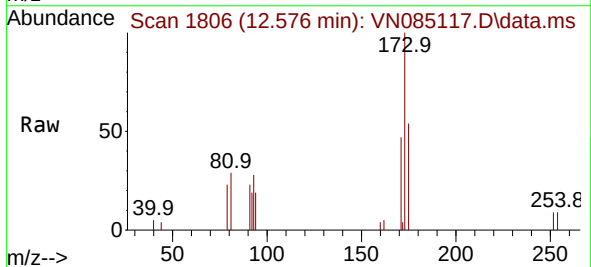
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

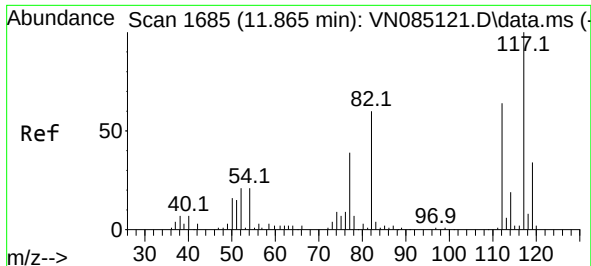
Tgt Ion: 63 Resp: 23999
Ion Ratio Lower Upper
63 100
65 33.0 25.9 38.9
106 28.1 23.5 35.3



#56
Bromoform
Concen: 5.052 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 173 Resp: 7066
Ion Ratio Lower Upper
173 100
175 46.7 40.2 60.2
254 6.3 6.2 9.4





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

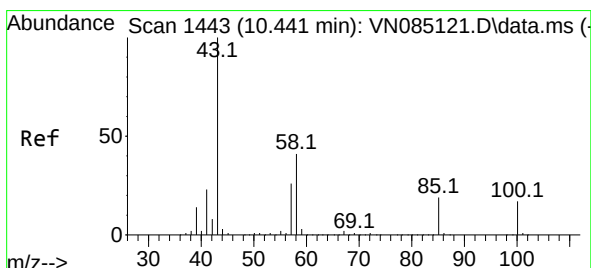
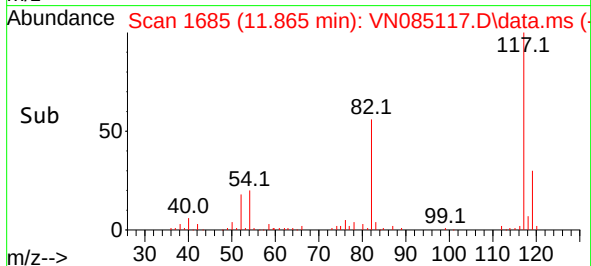
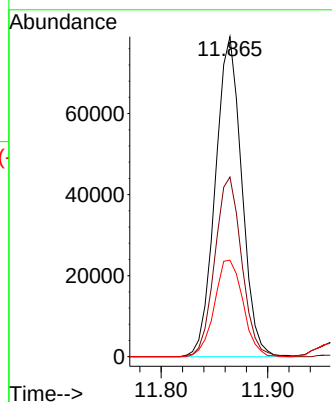
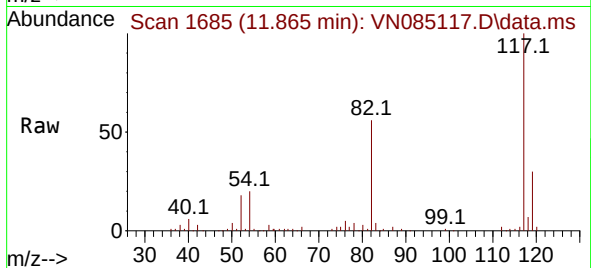
Tgt Ion:117 Resp: 136167

Ion Ratio Lower Upper

117 100

82 57.0 44.2 66.4

119 32.5 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 21.990 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

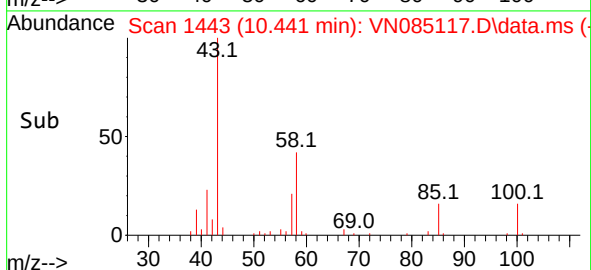
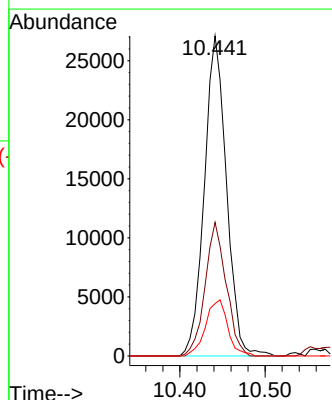
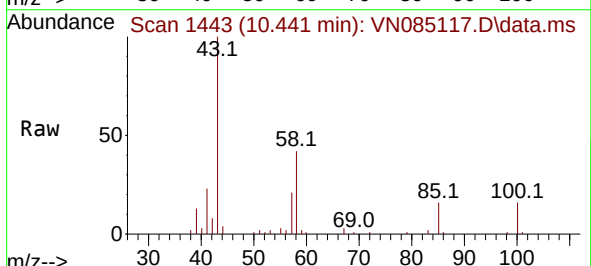
Tgt Ion: 43 Resp: 48868

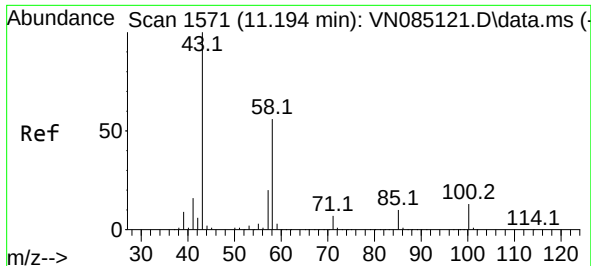
Ion Ratio Lower Upper

43 100

58 39.7 31.6 47.4

85 17.6 15.0 22.6

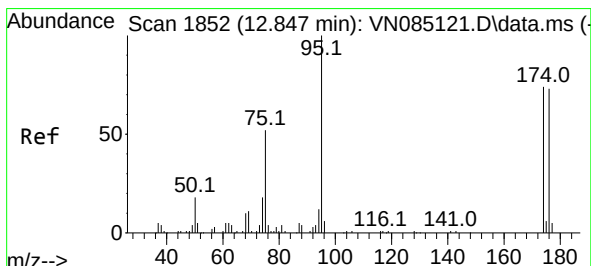
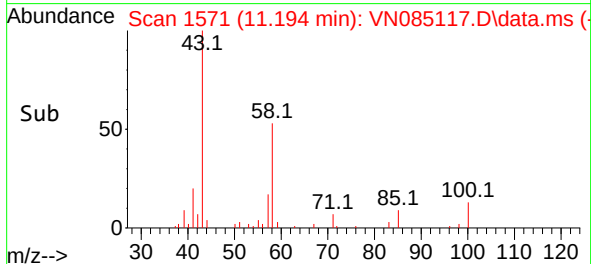
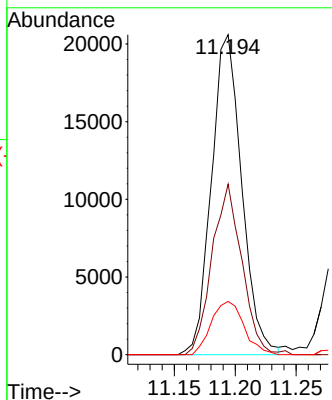
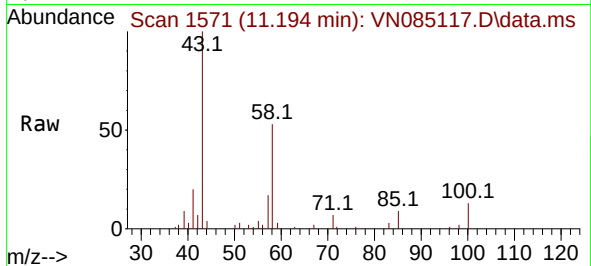




#59
2-Hexanone
Concen: 21.188 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

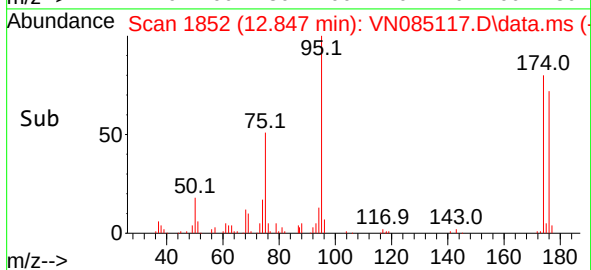
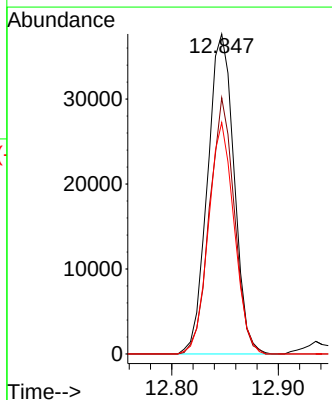
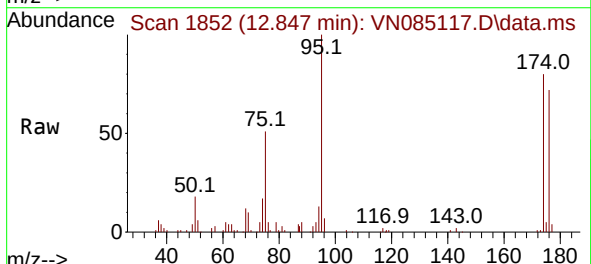
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

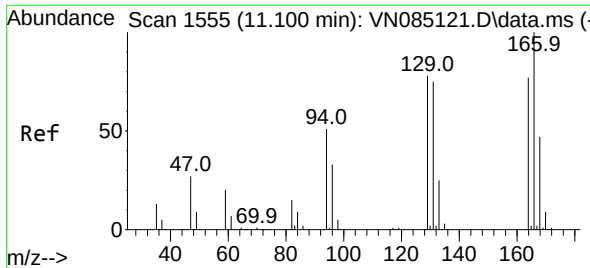
Tgt Ion:	43	Resp:	35678
Ion	Ratio	Lower	Upper
43	100		
58	52.3	43.6	65.4
57	17.9	15.4	23.0



#60
4-Bromofluorobenzene
Concen: 28.954 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:	95	Resp:	65235
Ion	Ratio	Lower	Upper
95	100		
174	75.0	60.3	90.5
176	70.2	57.4	86.0

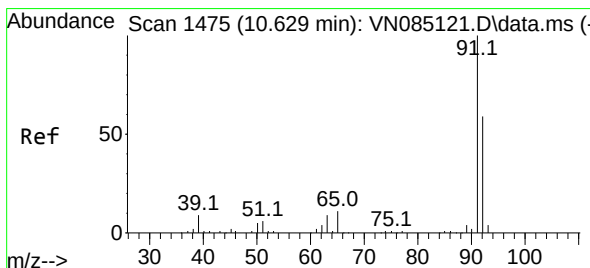
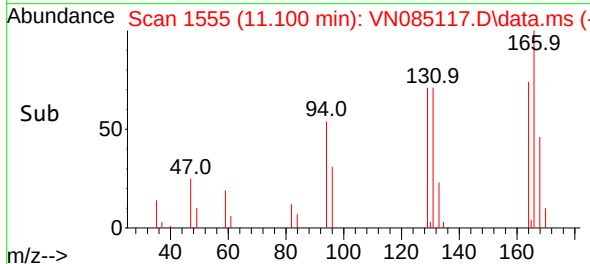
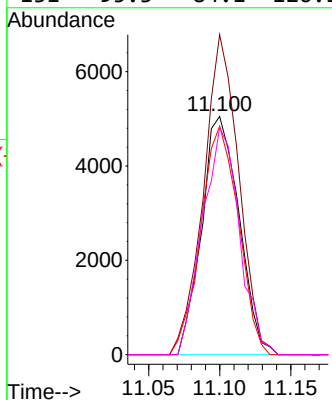
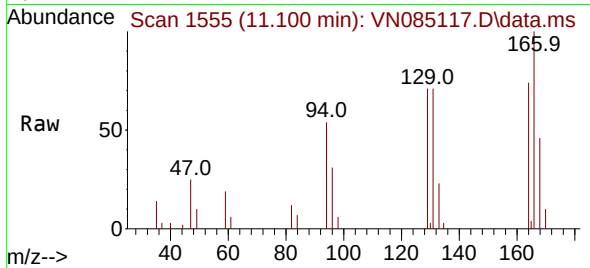




#61
Tetrachloroethene
Concen: 5.604 ug/l
RT: 11.100 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

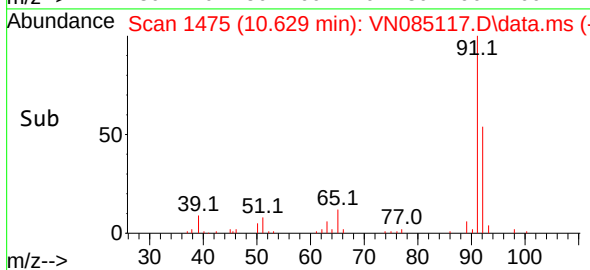
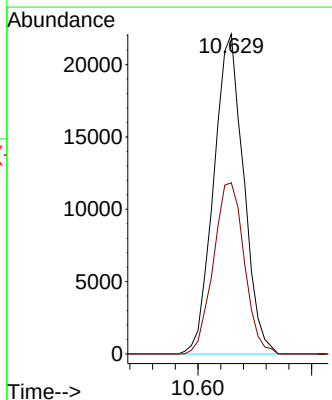
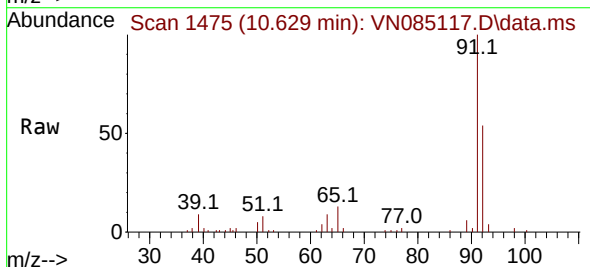
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

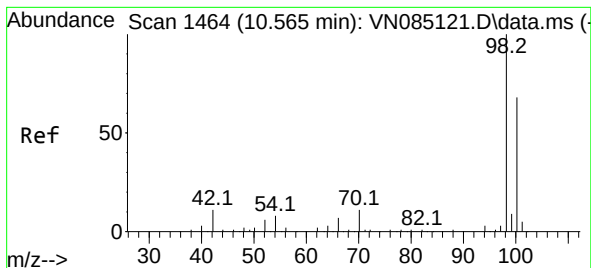
Tgt Ion:164 Resp: 9241
Ion Ratio Lower Upper
164 100
166 134.3 103.8 155.8
129 96.0 84.2 126.4
131 95.3 84.1 126.1



#62
Toluene
Concen: 5.085 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 91 Resp: 40385
Ion Ratio Lower Upper
91 100
92 55.2 46.5 69.7





#63

Toluene-d8

Concen: 31.177 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

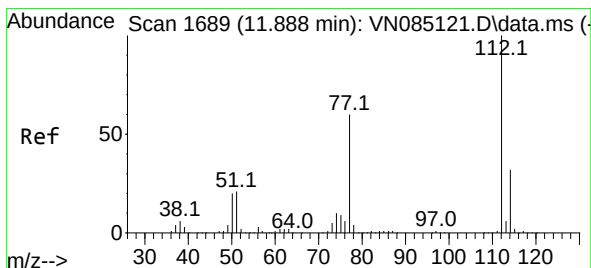
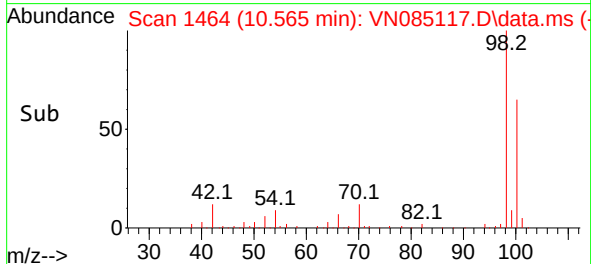
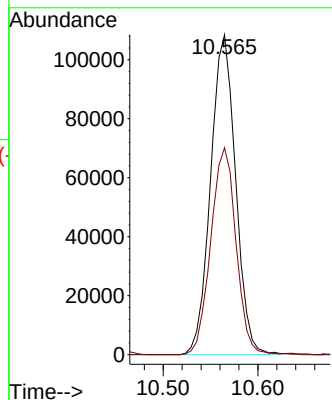
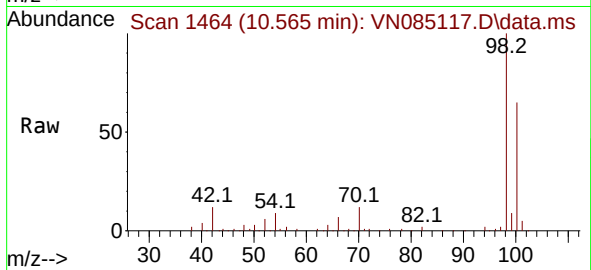
VSTDIC005

Tgt Ion: 98 Resp: 199139

Ion Ratio Lower Upper

98 100

100 65.3 52.0 78.0



#64

Chlorobenzene

Concen: 4.972 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085117.D

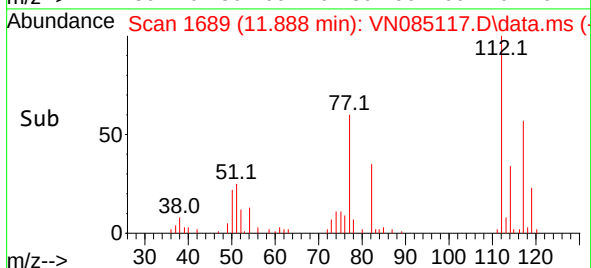
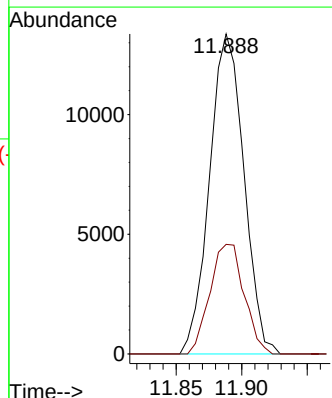
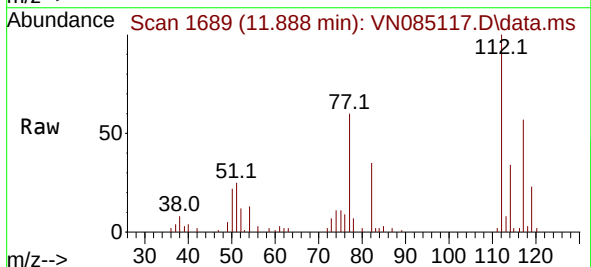
Acq: 06 Dec 2024 10:02

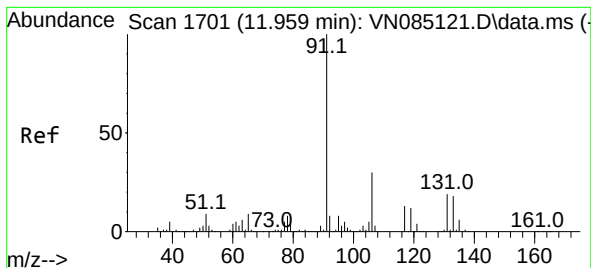
Tgt Ion: 112 Resp: 24379

Ion Ratio Lower Upper

112 100

114 34.2 26.0 39.0





#65

1,1,1,2-Tetrachloroethane

Concen: 5.352 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

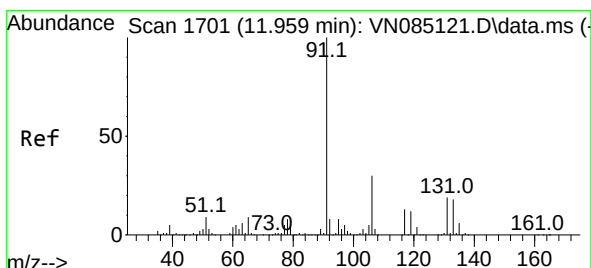
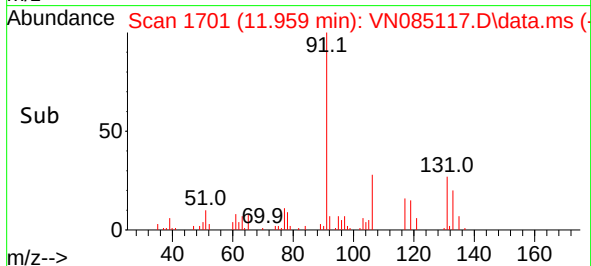
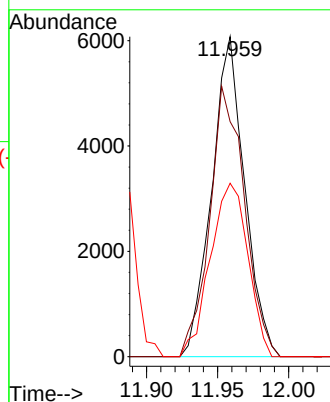
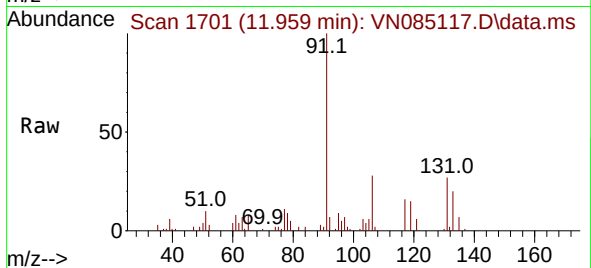
Tgt Ion:131 Resp: 9796

Ion Ratio Lower Upper

131 100

133 89.3 0.0 194.0

119 61.9 0.0 131.8



#66

Ethyl Benzene

Concen: 4.380 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.006 min

Lab File: VN085117.D

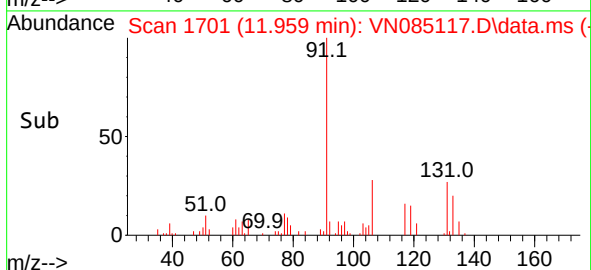
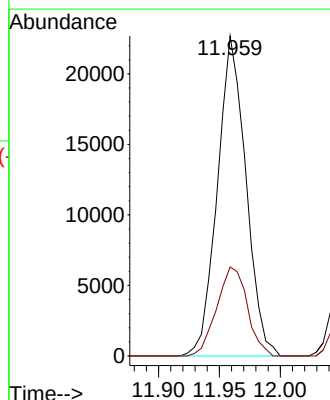
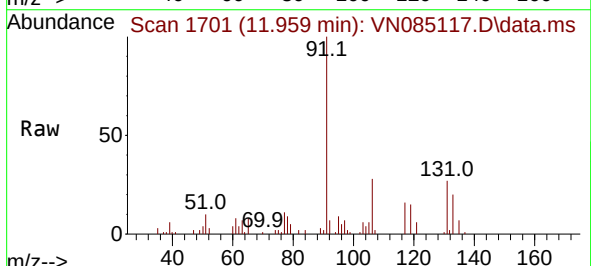
Acq: 06 Dec 2024 10:02

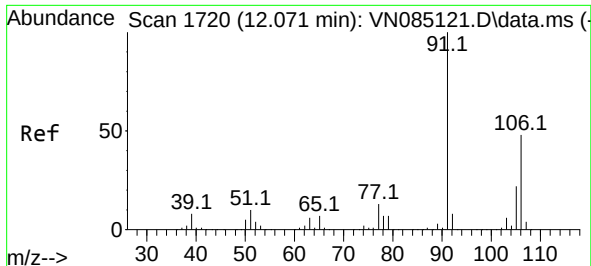
Tgt Ion: 91 Resp: 36907

Ion Ratio Lower Upper

91 100

106 27.8 23.1 34.7

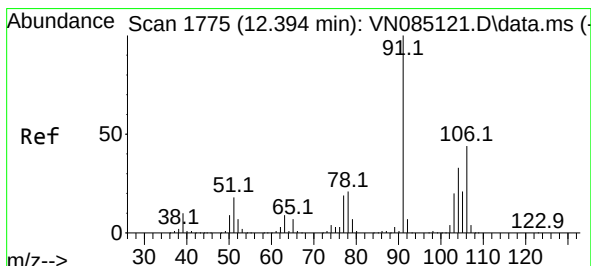
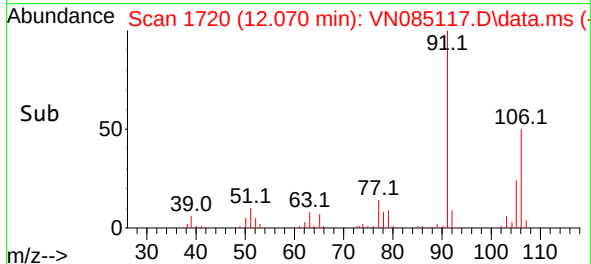
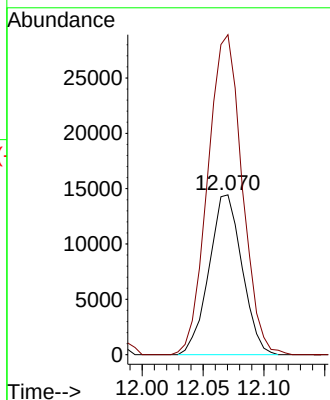
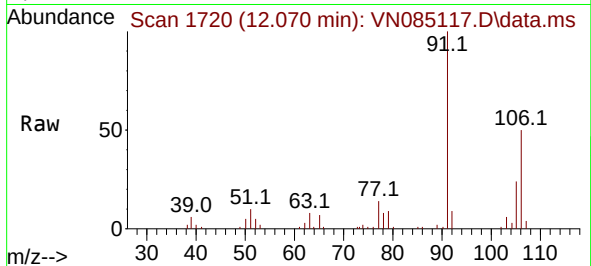




#67
m/p-Xylenes
Concen: 8.414 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

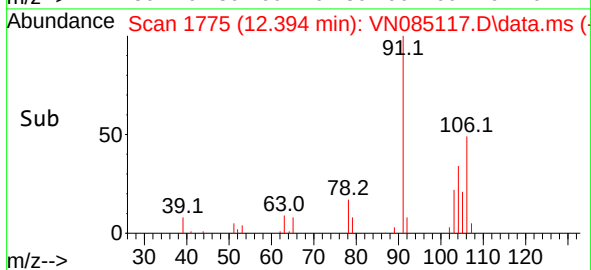
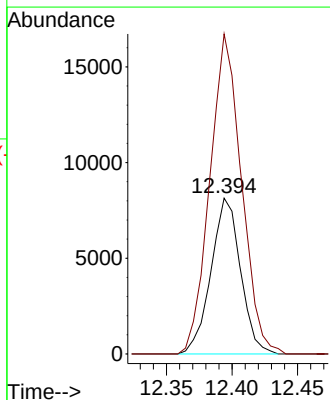
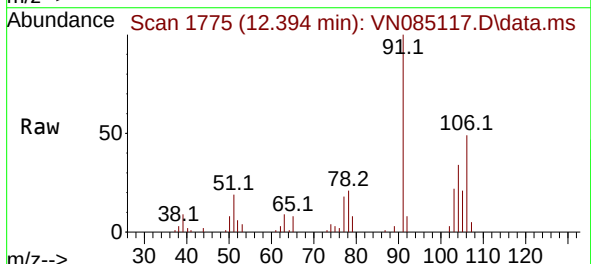
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

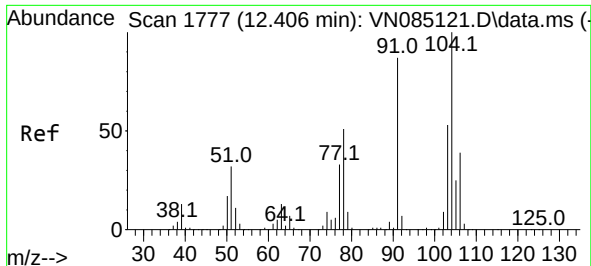
Tgt Ion:106 Resp: 27271
Ion Ratio Lower Upper
106 100
91 208.7 165.0 247.4



#68
o-Xylene
Concen: 4.186 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:106 Resp: 12741
Ion Ratio Lower Upper
106 100
91 220.0 112.1 336.4

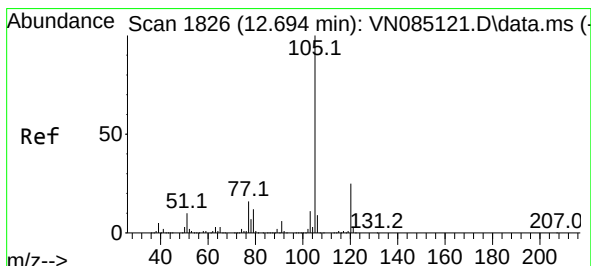
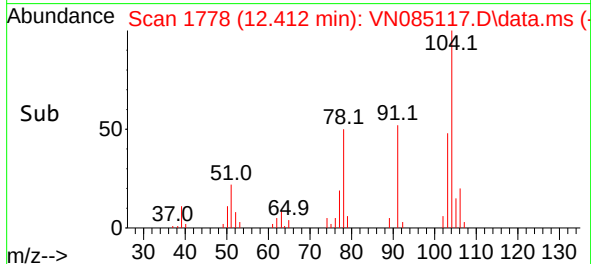
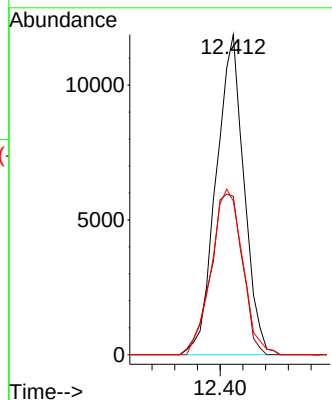
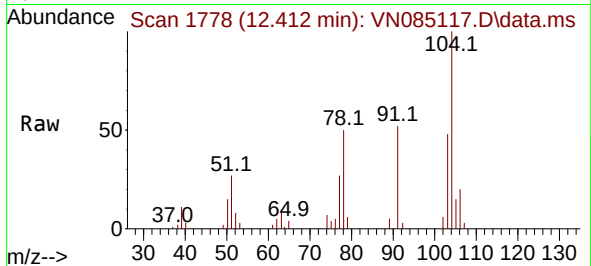




#69
Styrene
Concen: 3.918 ug/l
RT: 12.412 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

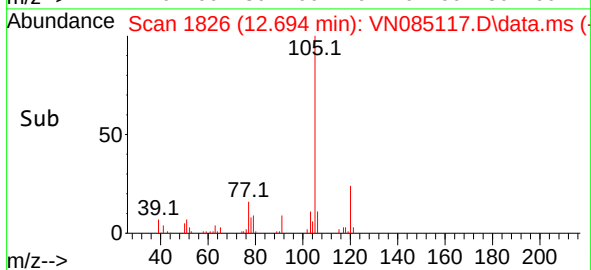
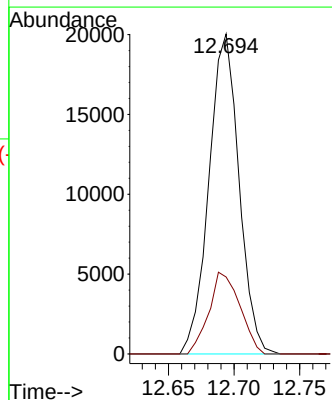
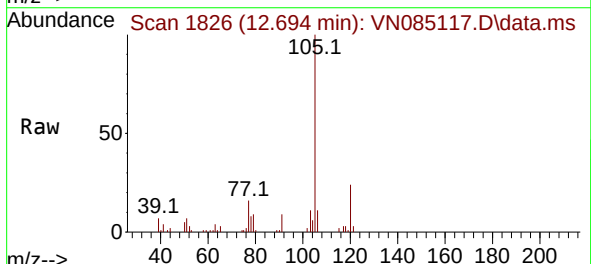
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

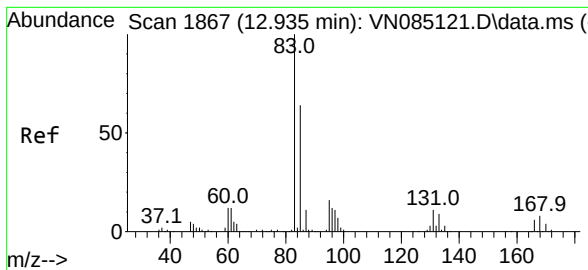
Tgt Ion:104 Resp: 20235
Ion Ratio Lower Upper
104 100
78 57.0 42.3 63.5
103 58.1 44.4 66.6



#70
Isopropylbenzene
Concen: 4.073 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:105 Resp: 31980
Ion Ratio Lower Upper
105 100
120 26.3 18.3 33.9

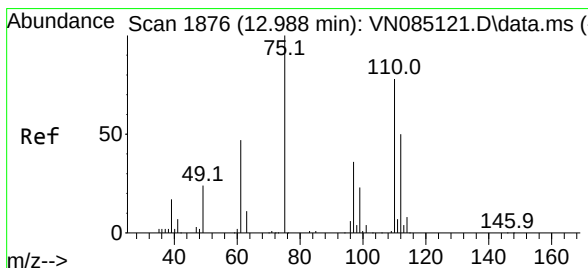
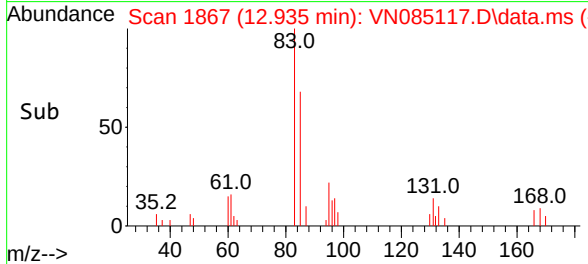
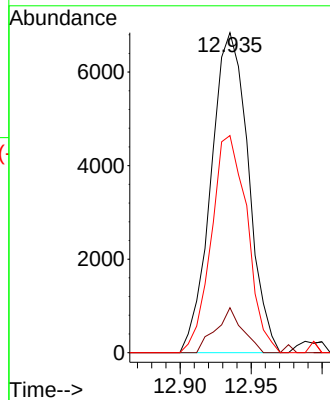
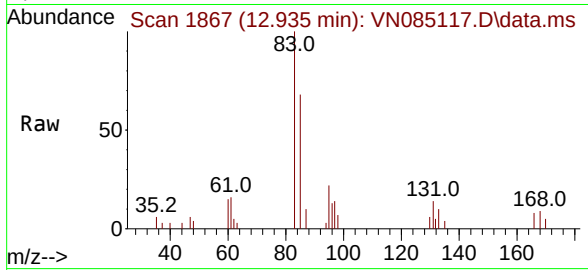




#71
1,1,2,2-Tetrachloroethane
Concen: 5.232 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

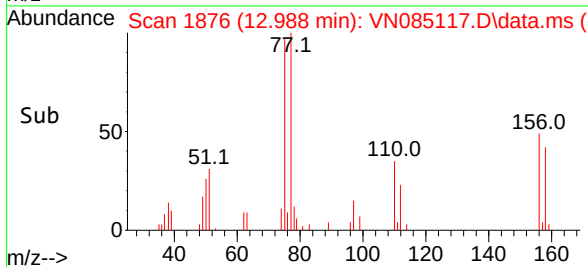
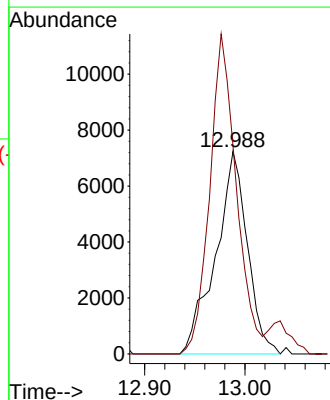
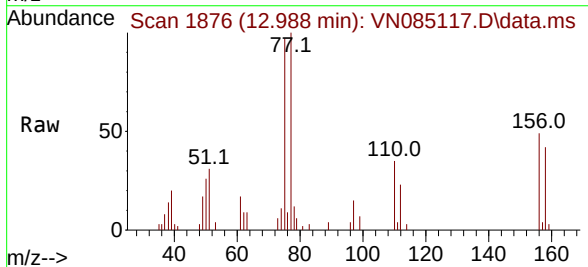
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

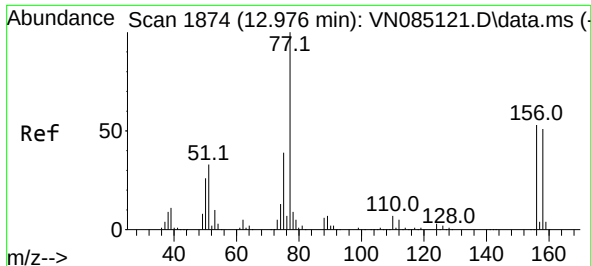
Tgt Ion: 83 Resp: 12502
Ion Ratio Lower Upper
83 100
131 10.0 5.1 15.3
85 65.2 31.1 93.5



#72
1,2,3-Trichloropropane
Concen: 6.740 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 75 Resp: 15909
Ion Ratio Lower Upper
75 100
77 132.7 0.0 339.0

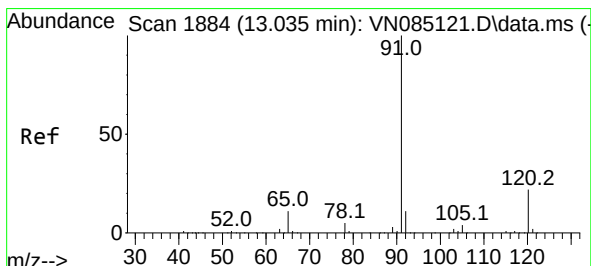
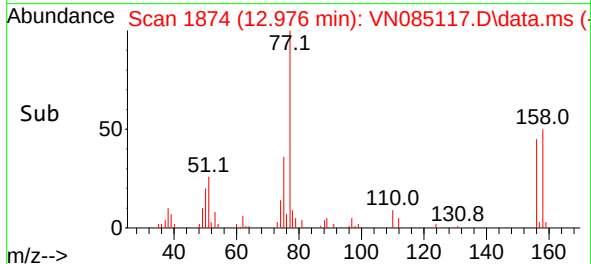
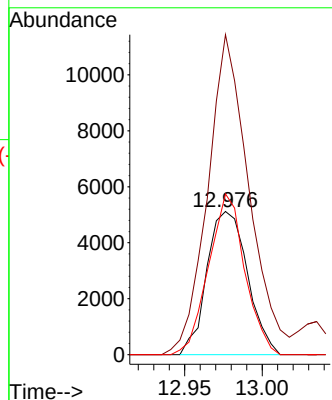
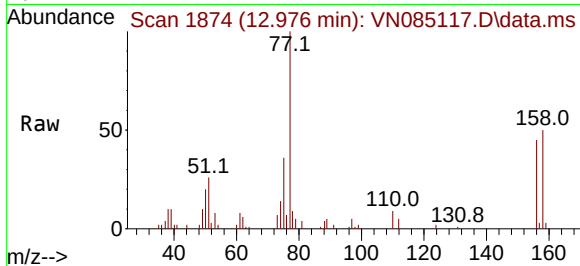




#73
Bromobenzene
Concen: 4.742 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

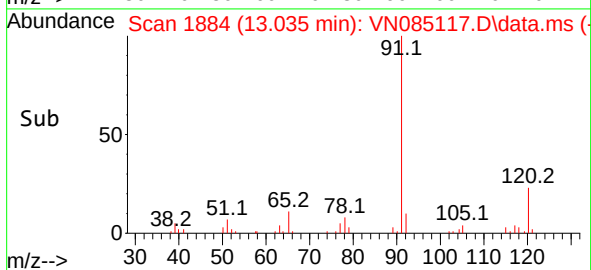
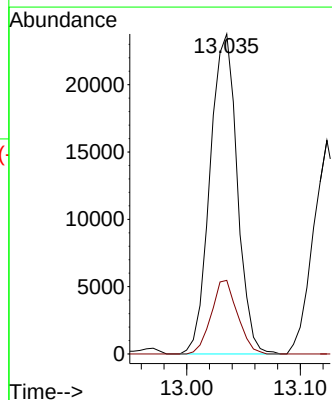
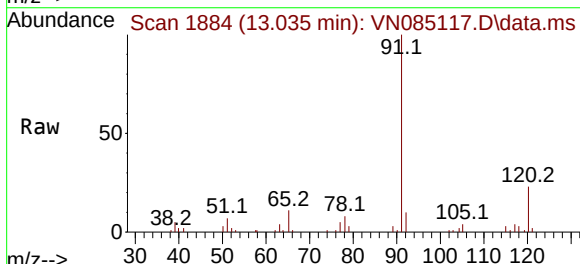
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

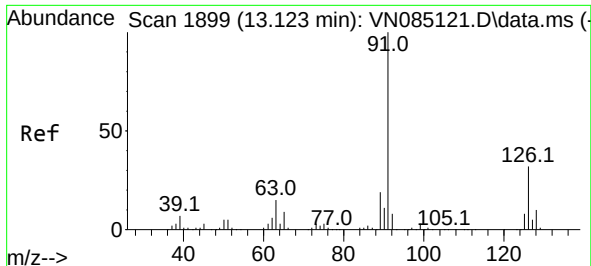
Tgt Ion:156 Resp: 9325
Ion Ratio Lower Upper
156 100
77 226.5 0.0 430.4
158 100.2 0.0 195.2



#74
n-propylbenzene
Concen: 4.194 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 91 Resp: 39585
Ion Ratio Lower Upper
91 100
120 22.2 0.0 44.0

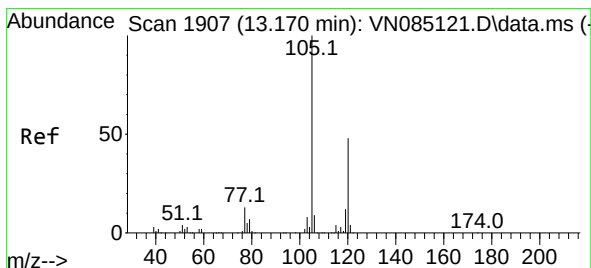
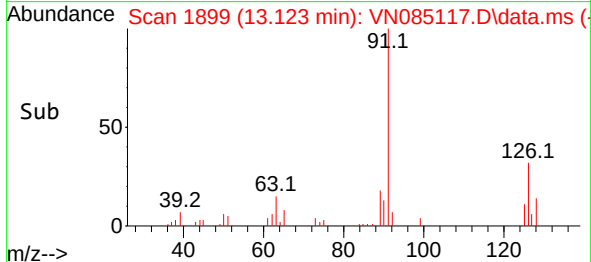
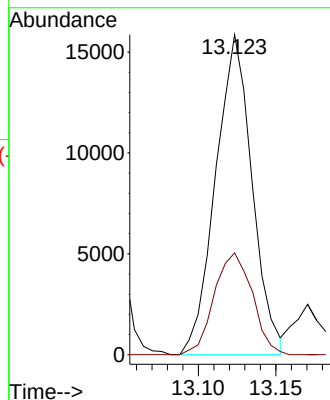
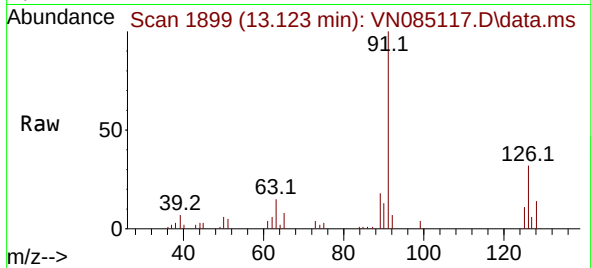




#75
2-Chlorotoluene
Concen: 4.445 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

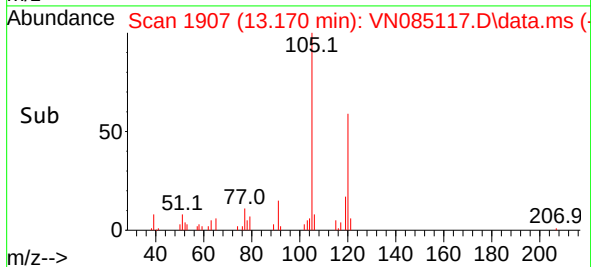
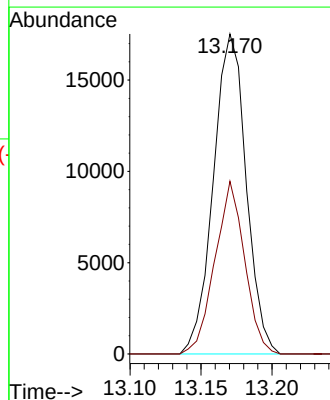
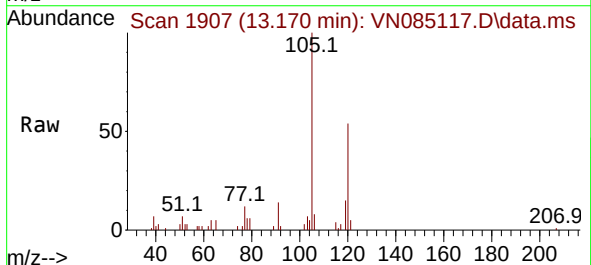
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

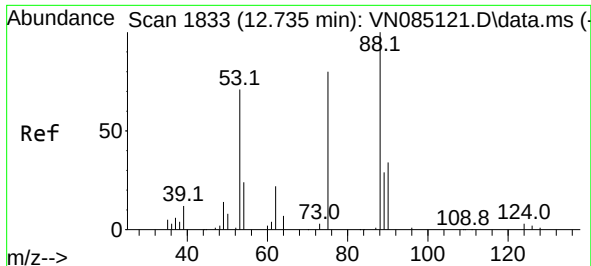
Tgt Ion: 91 Resp: 25942
Ion Ratio Lower Upper
91 100
126 33.2 0.0 64.2



#76
1,3,5-Trimethylbenzene
Concen: 4.187 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:105 Resp: 28160
Ion Ratio Lower Upper
105 100
120 48.8 0.0 94.4

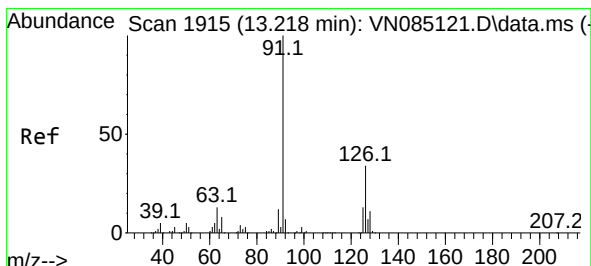
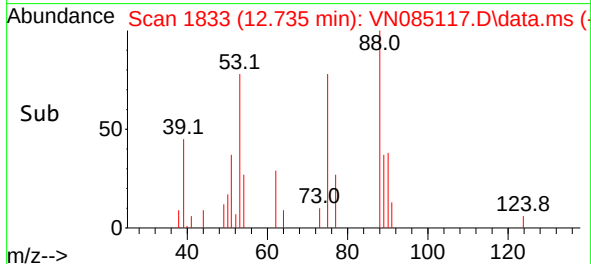
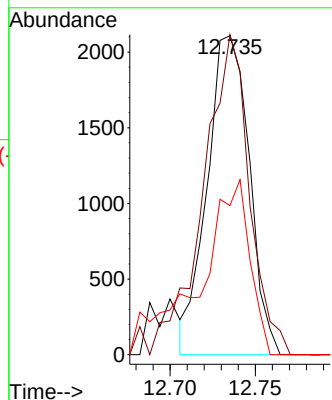
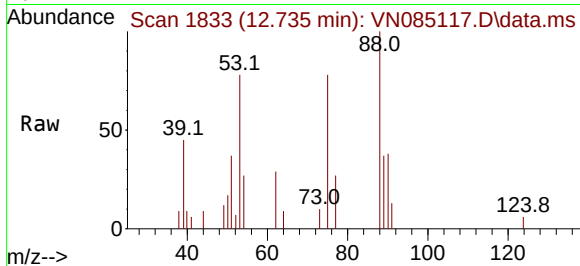




#77
t-1,4-Dichloro-2-butene
Concen: 4.218 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

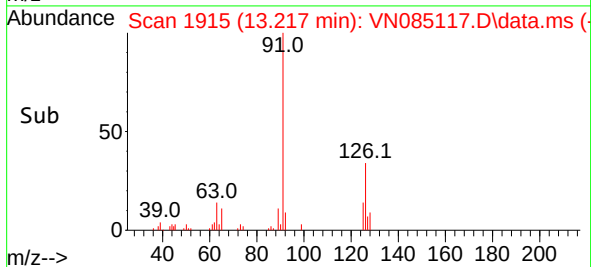
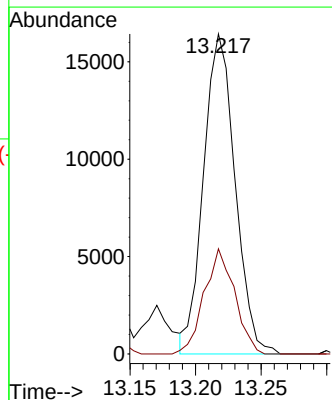
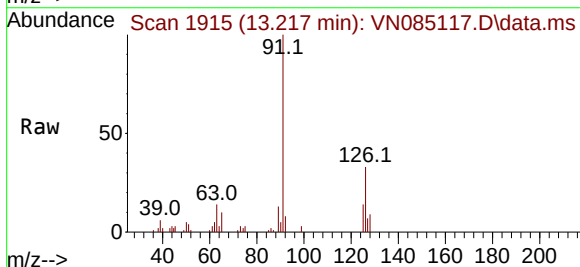
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

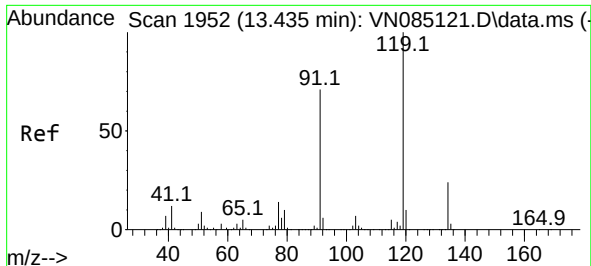
Tgt Ion:	75	Resp:	3618
Ion	Ratio	Lower	Upper
75	100		
53	92.7	49.1	147.3
89	46.8	22.9	68.5



#78
4-Chlorotoluene
Concen: 4.644 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:	91	Resp:	27508
Ion	Ratio	Lower	Upper
91	100		
126	31.8	0.0	64.4

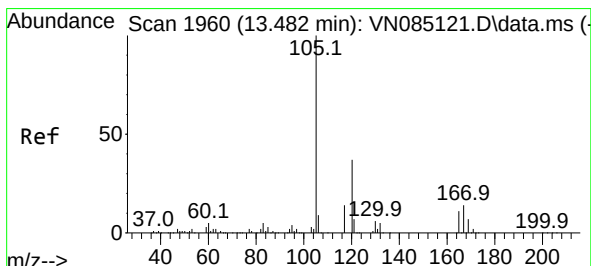
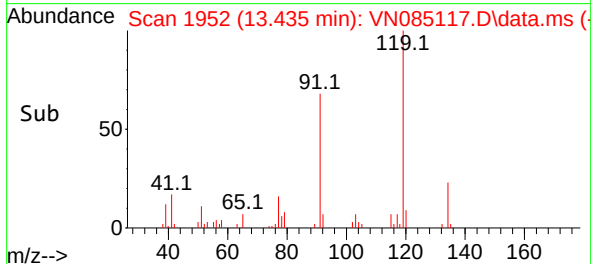
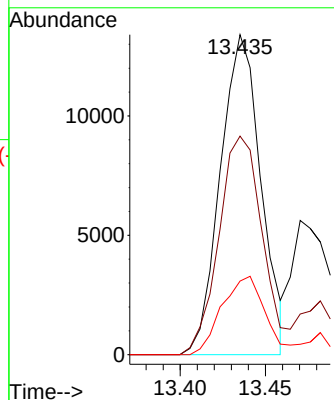
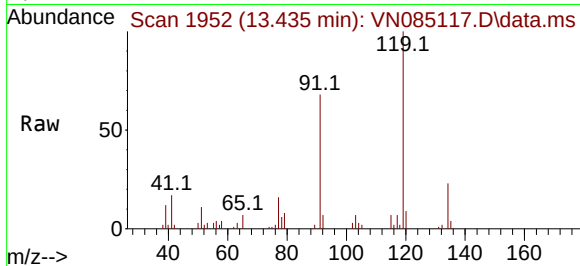




#79
tert-butylbenzene
Concen: 4.019 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

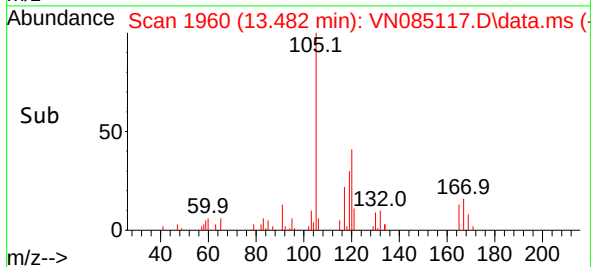
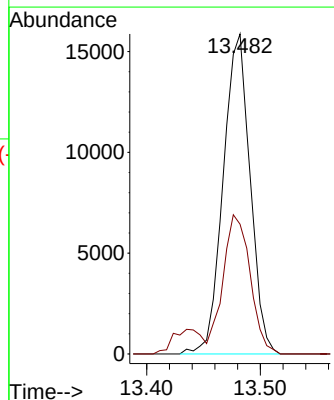
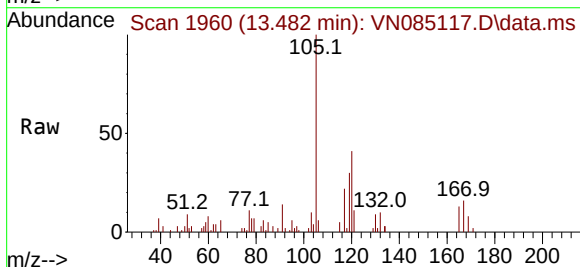
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

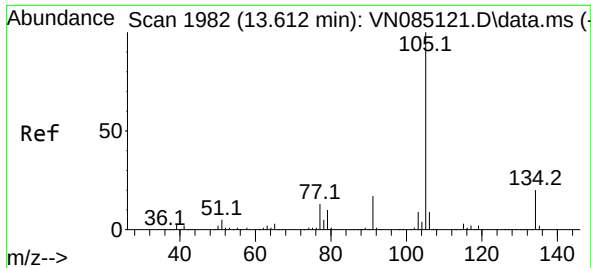
Tgt Ion:119 Resp: 22204
Ion Ratio Lower Upper
119 100
91 73.7 0.0 139.2
134 26.0 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 3.933 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion:105 Resp: 26128
Ion Ratio Lower Upper
105 100
120 43.8 0.0 87.4

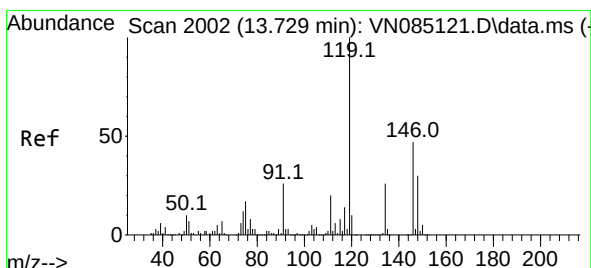
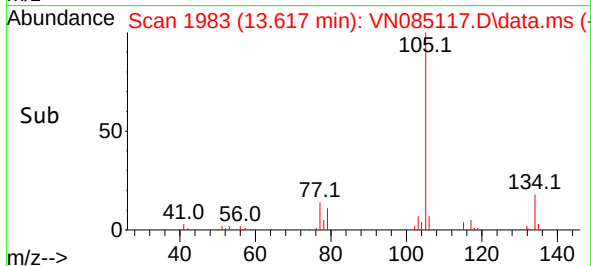
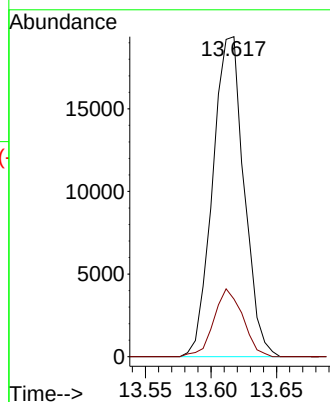
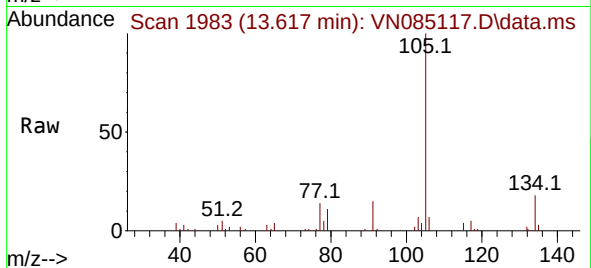




#81
 sec-Butylbenzene
 Concen: 4.109 ug/l
 RT: 13.617 min Scan# 1982
 Delta R.T. 0.006 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

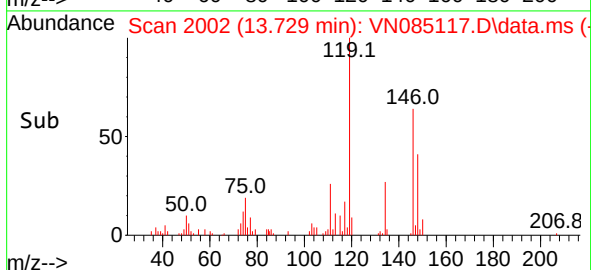
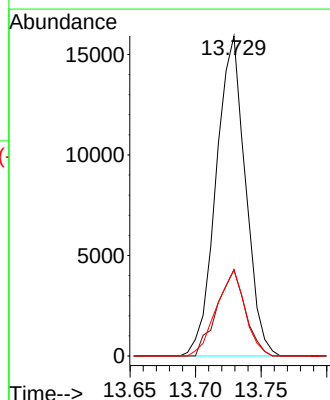
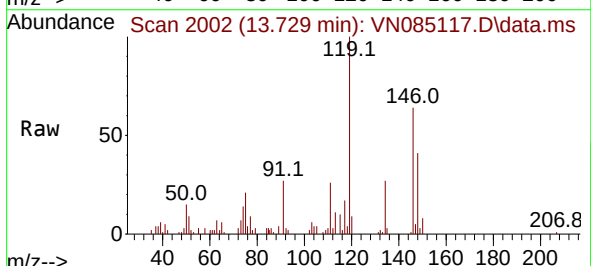
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

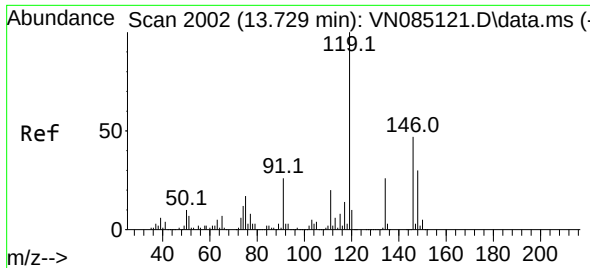
Tgt Ion:105 Resp: 32252
 Ion Ratio Lower Upper
 105 100
 134 19.6 0.0 38.0



#82
 p-Isopropyltoluene
 Concen: 3.803 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Tgt Ion:119 Resp: 24743
 Ion Ratio Lower Upper
 119 100
 134 26.1 0.0 51.6
 91 26.2 0.0 50.4

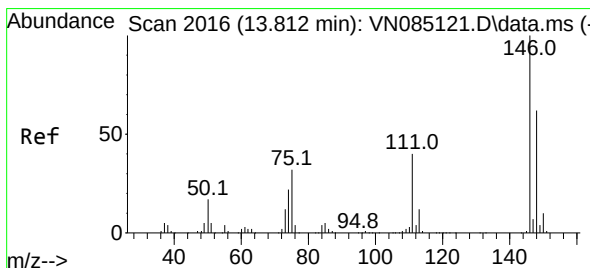
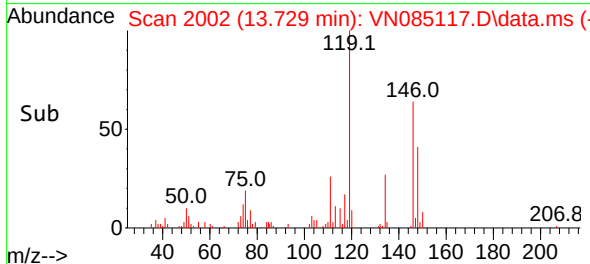
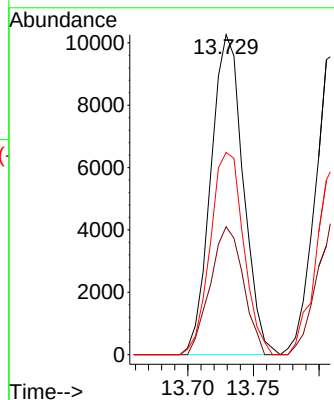
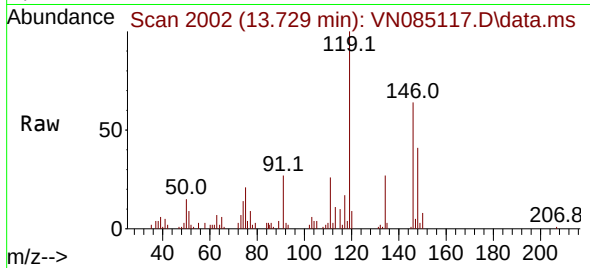




#83
 1,3-Dichlorobenzene
 Concen: 4.900 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

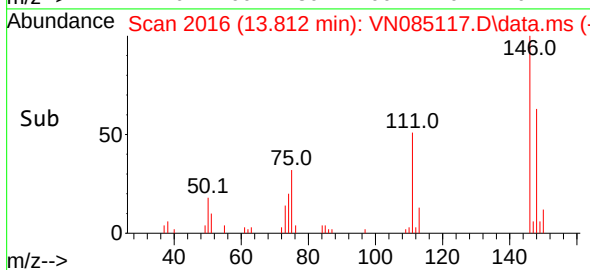
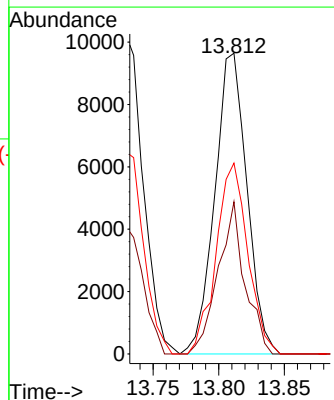
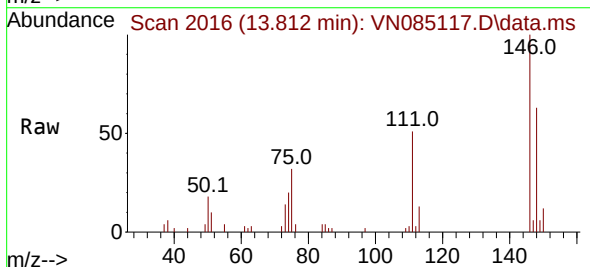
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

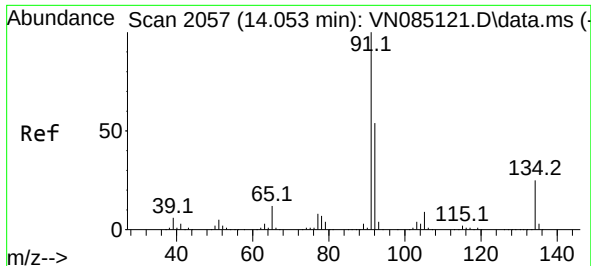
Tgt Ion:146 Resp: 17680
 Ion Ratio Lower Upper
 146 100
 111 40.5 21.1 63.3
 148 64.8 31.8 95.3



#84
 1,4-Dichlorobenzene
 Concen: 4.680 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Tgt Ion:146 Resp: 16455
 Ion Ratio Lower Upper
 146 100
 111 42.3 20.1 60.3
 148 62.6 31.6 94.7

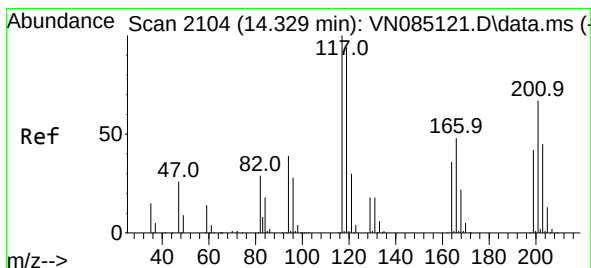
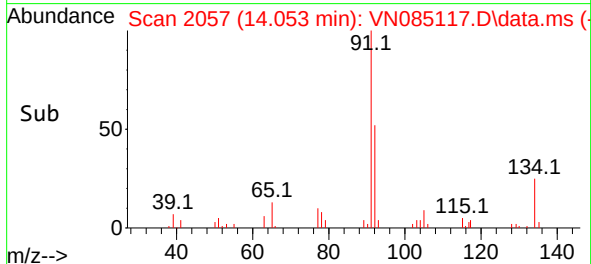
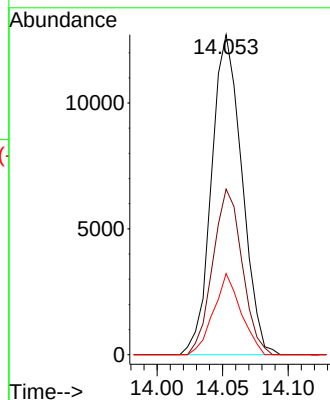
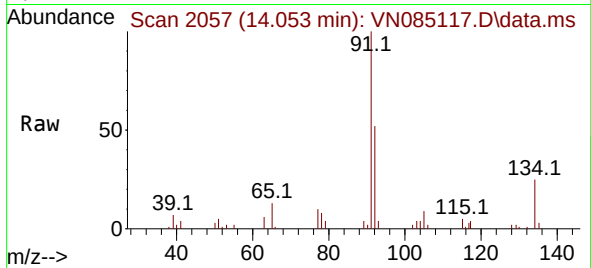




#85
n-Butylbenzene
Concen: 3.756 ug/l
RT: 14.053 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

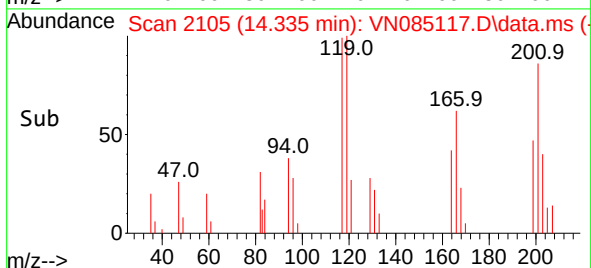
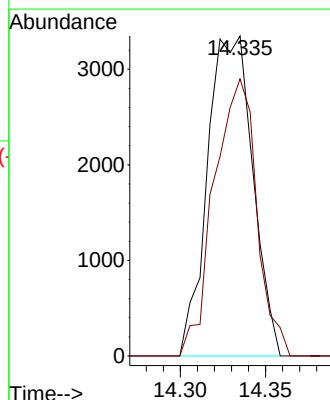
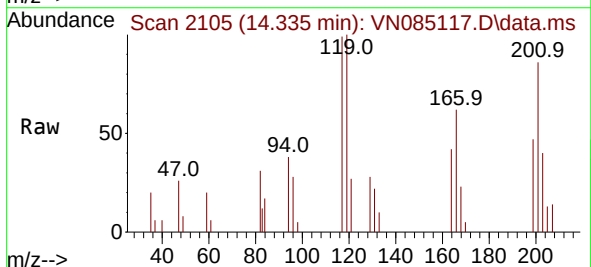
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

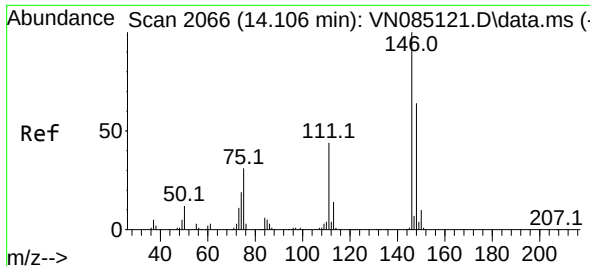
Tgt Ion: 91	Resp: 20500
Ion Ratio	Lower Upper
91	100
92	50.0 0.0 104.0
134	22.8 0.0 49.2



#86
Hexachloroethane
Concen: 4.778 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN085117.D
Acq: 06 Dec 2024 10:02

Tgt Ion: 117	Resp: 6189
Ion Ratio	Lower Upper
117	100
201	81.3 34.1 102.3





#87

1,2-Dichlorobenzene

Concen: 4.950 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

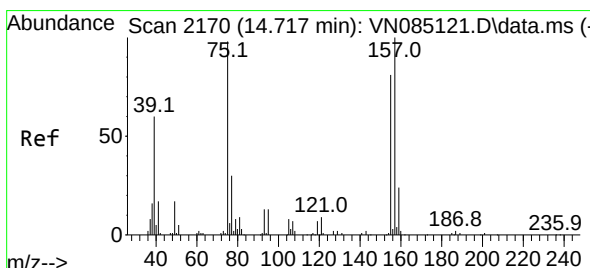
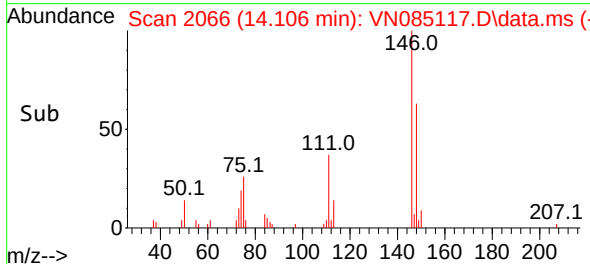
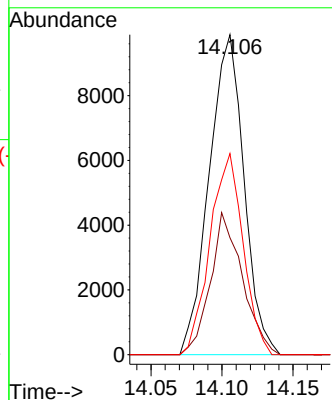
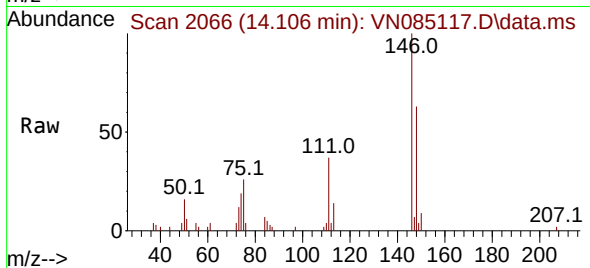
Tgt Ion:146 Resp: 16856

Ion Ratio Lower Upper

146 100

111 40.9 21.9 65.7

148 59.8 32.4 97.0



#88

1,2-Dibromo-3-Chloropropane

Concen: 4.495 ug/l

RT: 14.711 min Scan# 2169

Delta R.T. -0.006 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

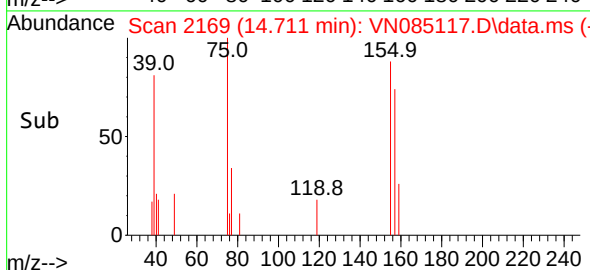
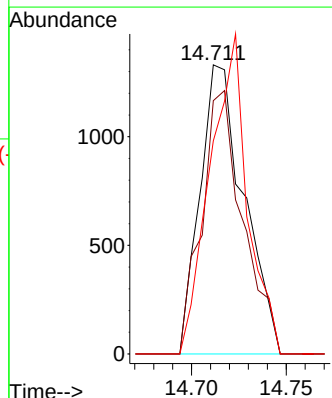
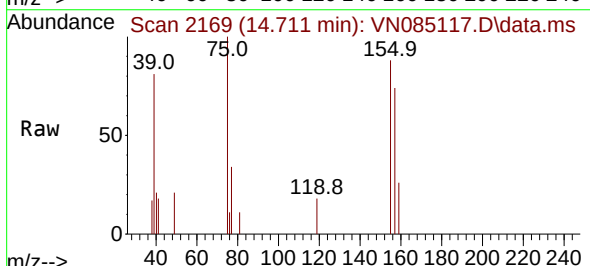
Tgt Ion: 75 Resp: 2146

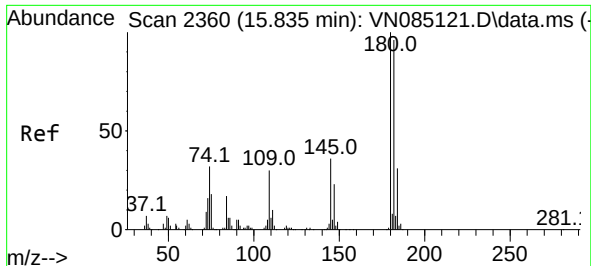
Ion Ratio Lower Upper

75 100

155 85.4 62.1 93.1

157 94.2 79.3 118.9

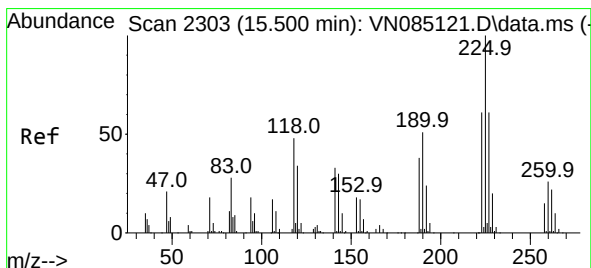
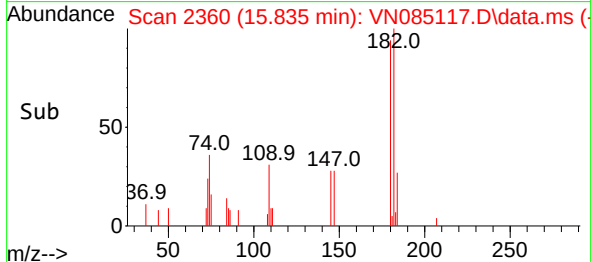
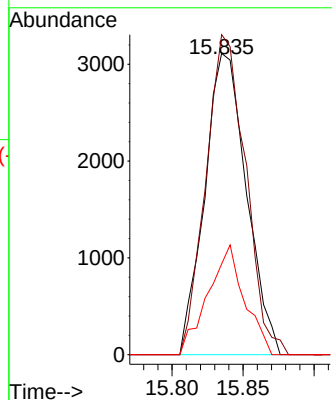
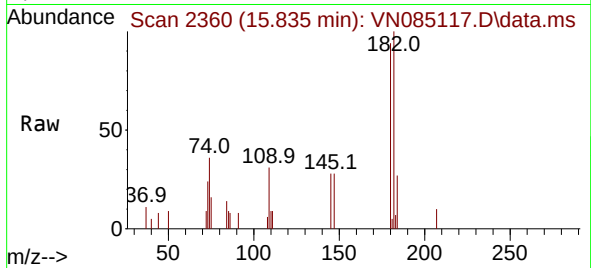




#89
 1,2,4-Trichlorobenzene
 Concen: 3.806 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

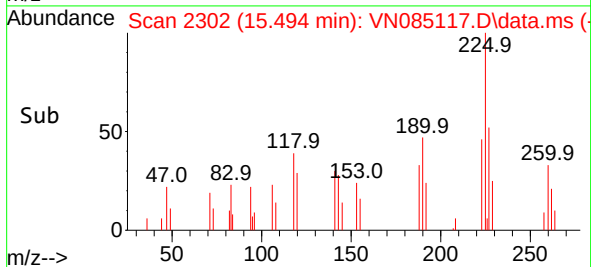
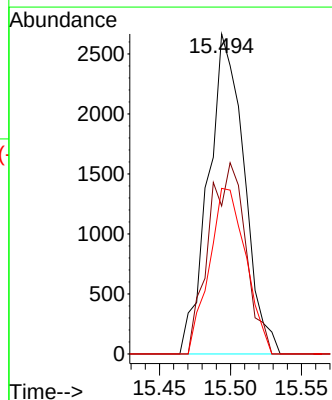
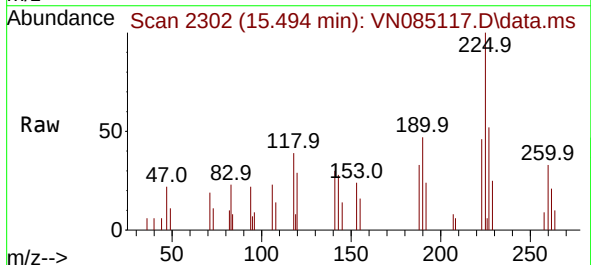
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

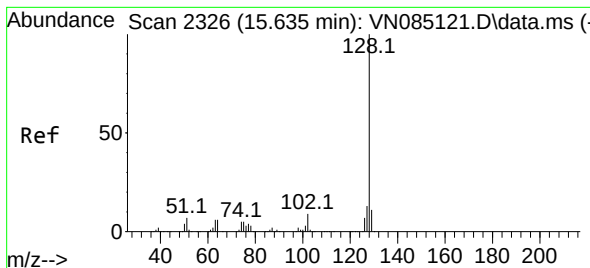
Tgt Ion:180 Resp: 6347
 Ion Ratio Lower Upper
 180 100
 182 101.3 74.0 111.0
 145 31.8 28.6 43.0



#90
 Hexachlorobutadiene
 Concen: 5.392 ug/l
 RT: 15.494 min Scan# 2302
 Delta R.T. -0.006 min
 Lab File: VN085117.D
 Acq: 06 Dec 2024 10:02

Tgt Ion:225 Resp: 4673
 Ion Ratio Lower Upper
 225 100
 223 61.7 0.0 121.8
 227 53.0 0.0 126.8





#91

Naphthalene

Concen: 3.083 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

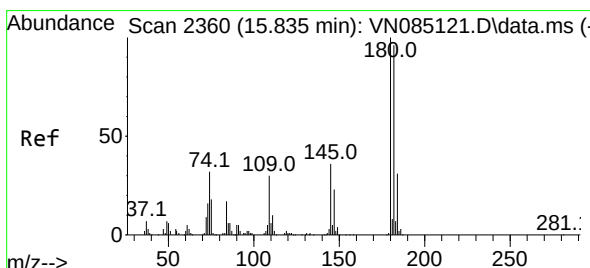
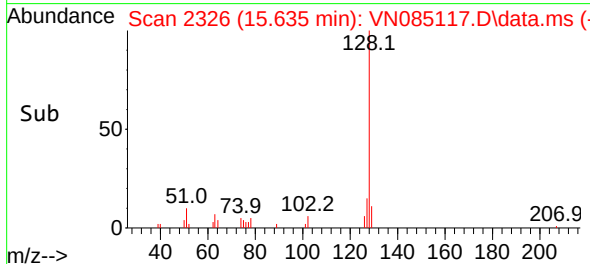
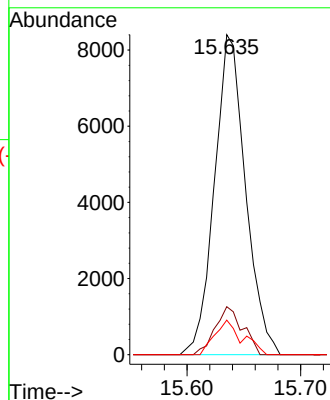
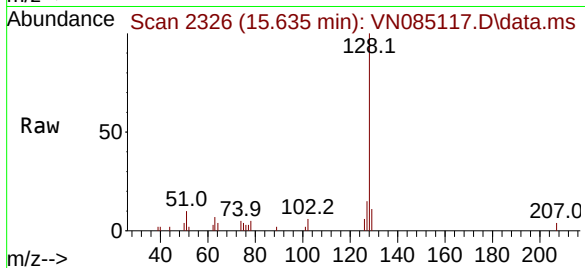
Tgt Ion:128 Resp: 15972

Ion Ratio Lower Upper

128 100

127 13.3 11.0 16.4

129 7.3 8.7 13.1#



#92

1,2,3-Trichlorobenzene

Concen: 3.806 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085117.D

Acq: 06 Dec 2024 10:02

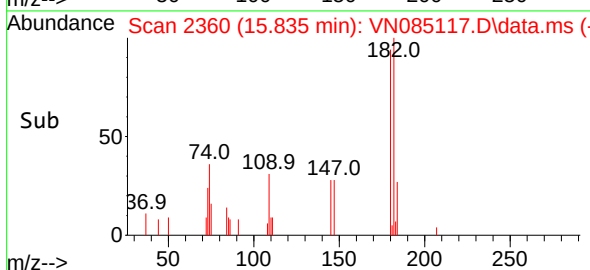
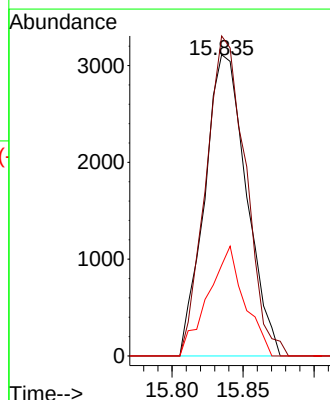
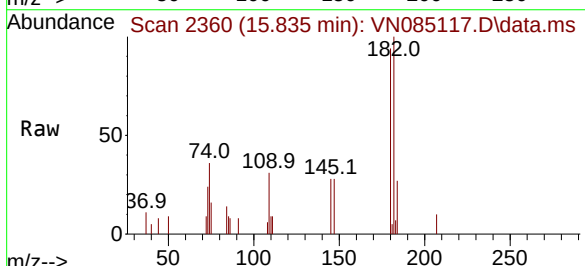
Tgt Ion:180 Resp: 6347

Ion Ratio Lower Upper

180 100

182 101.3 0.0 185.0

145 31.8 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085118.D
 Acq On : 06 Dec 2024 10:26
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Dec 06 22:28:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31263	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	162398	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	151793	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	74804	30.155	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.533%	
60) 4-Bromofluorobenzene	12.847	95	75101	29.902	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.667%	
63) Toluene-d8	10.565	98	218988	30.755	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.533%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	51416	20.557	ug/l	100
3) Chloromethane	2.359	50	43625	19.705	ug/l	100
4) Vinyl Chloride	2.512	62	44749	19.762	ug/l	100
5) Bromomethane	2.965	94	27801	19.338	ug/l	100
6) Chloroethane	3.124	64	27130	19.501	ug/l	100
7) Trichlorofluoromethane	3.500	101	72134	19.461	ug/l	100
8) Diethyl Ether	3.959	74	21832	18.596	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	40093	19.343	ug/l	100
10) 1,1-Dichloroethene	4.342	96	36518	19.181	ug/l	100
11) Methyl Iodide	4.589	142	48887	18.514	ug/l	100
12) Methyl Acetate	5.018	43	42971	19.131	ug/l	100
13) Acrolein	4.183	56	26615	81.540	ug/l	100
14) Acrylonitrile	5.718	53	87191	93.488	ug/l	100
15) Acetone	4.424	58	23800	94.168	ug/l	100
16) Carbon Disulfide	4.712	76	111875	19.659	ug/l	100
17) Allyl chloride	5.024	41	49995	18.351	ug/l	100
18) Methylene Chloride	5.271	84	41937	19.412	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	37486	18.942	ug/l	100
20) Diisopropyl ether	6.665	45	118238	19.776	ug/l	100
21) 1,1-Dichloroethane	6.565	63	71204	19.296	ug/l	100
22) cis-1,2-Dichloroethene	7.488	96	44288	19.471	ug/l	100
23) tert-Butyl Alcohol	5.512	59	30593	91.438	ug/l	# 100
24) Methyl tert-Butyl Ether	5.794	73	113672	19.125	ug/l	100
25) Chloroform	7.959	83	75756	19.596	ug/l	100
26) Cyclohexane	8.253	56	60954	20.061	ug/l	100
29) 1,1-Dichloropropene	8.371	75	52226	19.930	ug/l	100
30) 2-Butanone	7.483	43	117537	97.739	ug/l	100
31) 2,2-Dichloropropane	7.488	77	65781	19.575	ug/l	# 100
32) 1,1,1-Trichloroethane	8.171	97	71977	20.293	ug/l	100
33) Carbon Tetrachloride	8.359	117	63567	19.861	ug/l	100
34) Benzene	8.606	78	162502	19.740	ug/l	100
35) Methacrylonitrile	7.777	41	27120	20.040	ug/l	100
36) 1,2-Dichloroethane	8.665	62	54631	19.494	ug/l	100
37) Trichloroethene	9.353	130	38555	19.667	ug/l	100
38) Methylcyclohexane	9.600	83	52032	18.261	ug/l	100
39) 1,2-Dichloropropane	9.618	63	40007	20.064	ug/l	100
40) Dibromomethane	9.706	93	28813	20.145	ug/l	100
41) Bromodichloromethane	9.882	83	60013	19.628	ug/l	100
42) Vinyl Acetate	6.600	43	404546	96.136	ug/l	100

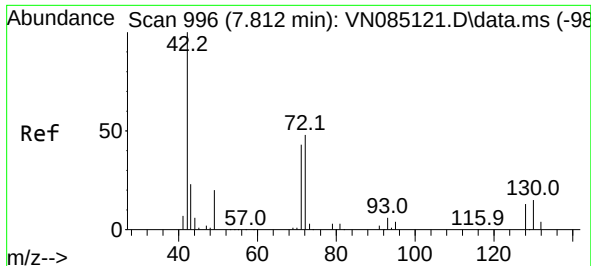
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 Acq On : 06 Dec 2024 10:26
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Dec 06 22:28:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	43730	18.276	ug/l	100
44) Isopropyl Acetate	8.688	43	80717	19.412	ug/l	100
45) 1,4-Dioxane	9.694	88	13988	403.408	ug/l	100
46) Methyl methacrylate	9.682	41	37174	19.535	ug/l	100
47) n-amyl Acetate	12.494	43	67009	19.154	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	55998	18.657	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	63845	19.540	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	38466	19.958	ug/l	100
51) Ethyl methacrylate	10.871	69	54805	18.696	ug/l	100
52) 1,3-Dichloropropane	11.159	76	63330	19.634	ug/l	100
53) Dibromochloromethane	11.353	129	46068	19.614	ug/l	100
54) 1,2-Dibromoethane	11.465	107	37625	19.376	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	133977	98.387	ug/l	100
56) Bromoform	12.576	173	29780	18.911	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	249951	100.896	ug/l	100
59) 2-Hexanone	11.194	43	190003	101.223	ug/l	100
61) Tetrachloroethene	11.100	164	36183	19.684	ug/l	100
62) Toluene	10.629	91	173344	19.581	ug/l	100
64) Chlorobenzene	11.888	112	106855	19.550	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	38831	19.032	ug/l	100
66) Ethyl Benzene	11.965	91	176006	18.737	ug/l	100
67) m/p-Xylenes	12.070	106	144263	39.929	ug/l	100
68) o-Xylene	12.394	106	65568	19.324	ug/l	100
69) Styrene	12.412	104	111060	19.289	ug/l	100
70) Isopropylbenzene	12.694	105	167624	19.153	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	53829	20.208	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	68245	25.935	ug/l	74
73) Bromobenzene	12.976	156	42513	19.393	ug/l	100
74) n-propylbenzene	13.035	91	204446	19.431	ug/l	100
75) 2-Chlorotoluene	13.123	91	128581	19.766	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	145824	19.449	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	18073	18.901	ug/l	100
78) 4-Chlorotoluene	13.217	91	127680	19.337	ug/l	100
79) tert-butylbenzene	13.435	119	118752	19.283	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	144579	19.521	ug/l	100
81) sec-Butylbenzene	13.612	105	168895	19.304	ug/l	100
82) p-Isopropyltoluene	13.729	119	138833	19.140	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	77464	19.261	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	75083	19.156	ug/l	100
85) n-Butylbenzene	14.053	91	109819	18.049	ug/l	100
86) Hexachloroethane	14.329	117	27795	19.248	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	72993	19.228	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10448	19.634	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	34577	18.598	ug/l	100
90) Hexachlorobutadiene	15.500	225	18570	19.222	ug/l	100
91) Naphthalene	15.641	128	98254	17.011	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	34577	18.598	ug/l	100

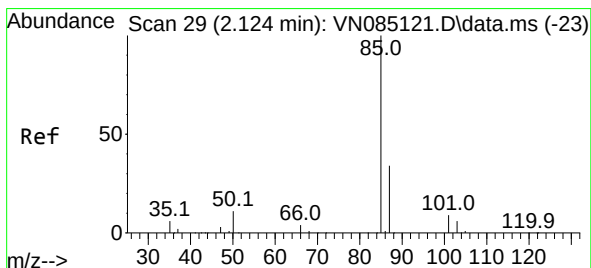
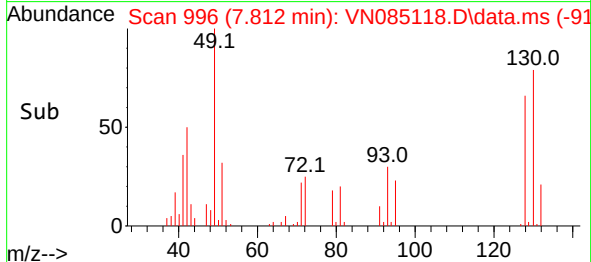
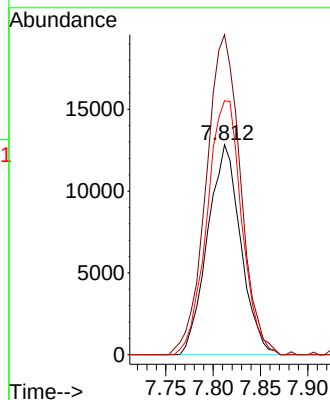
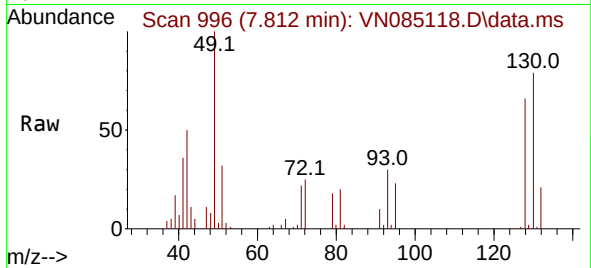
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#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

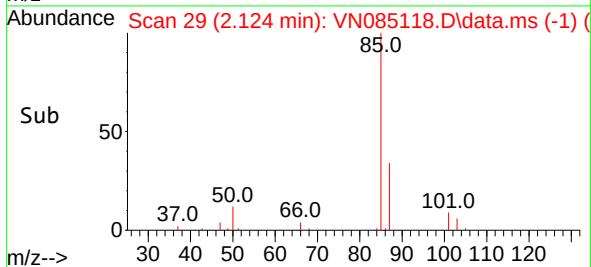
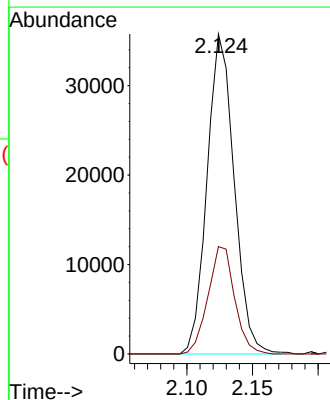
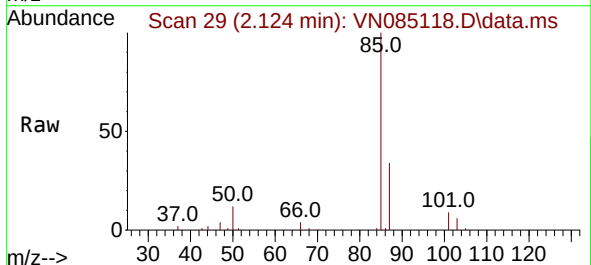
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

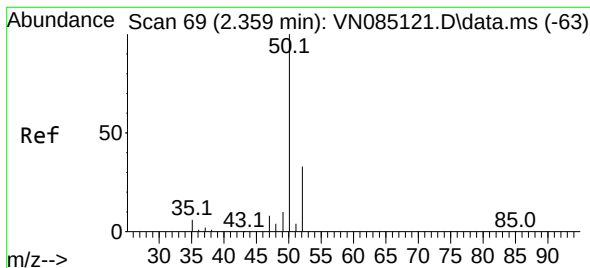
Tgt Ion:128 Resp: 31263
Ion Ratio Lower Upper
128 100
49 157.8 0.0 394.5
130 126.6 0.0 316.5



#2
Dichlorodifluoromethane
Concen: 20.557 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 85 Resp: 51416
Ion Ratio Lower Upper
85 100
87 33.5 16.8 50.3





#3

Chloromethane

Concen: 19.705 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

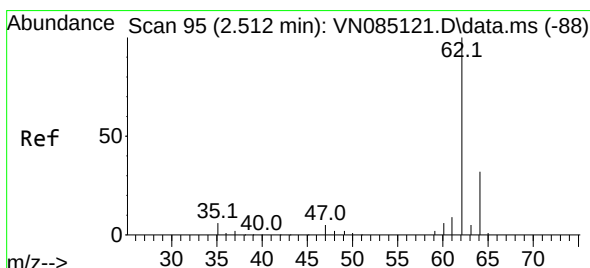
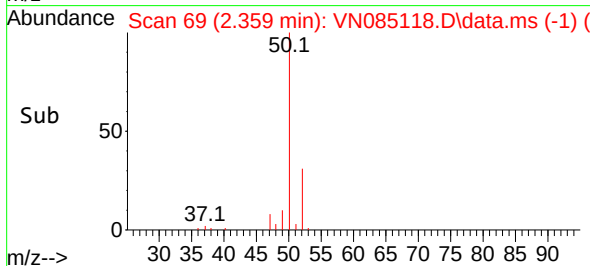
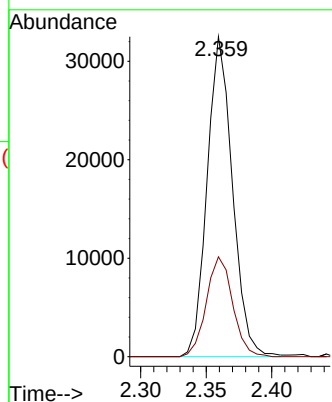
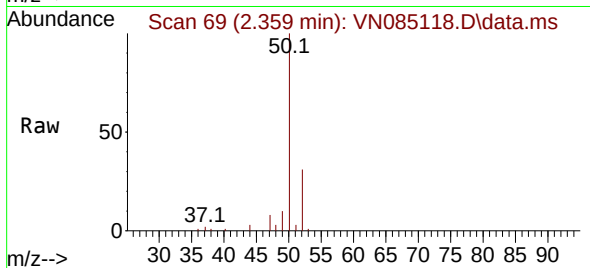
VSTDICCC020

Tgt Ion: 50 Resp: 43625

Ion Ratio Lower Upper

50 100

52 31.2 25.0 37.4



#4

Vinyl Chloride

Concen: 19.762 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085118.D

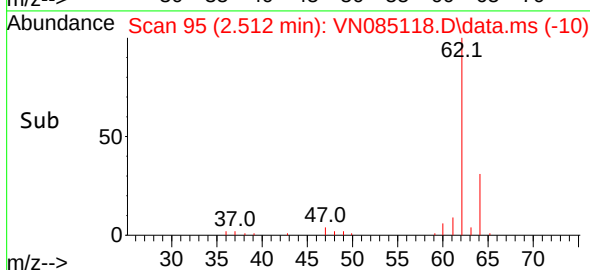
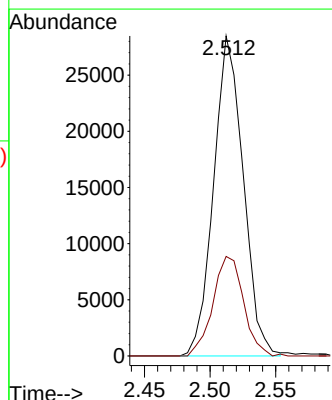
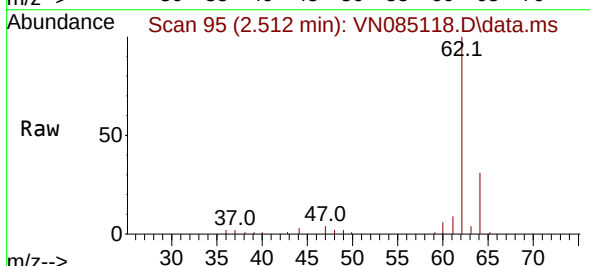
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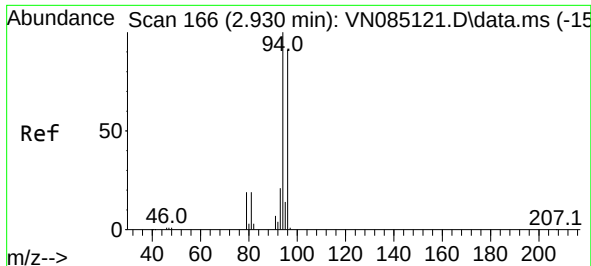
Tgt Ion: 62 Resp: 44749

Ion Ratio Lower Upper

62 100

64 31.1 24.9 37.3

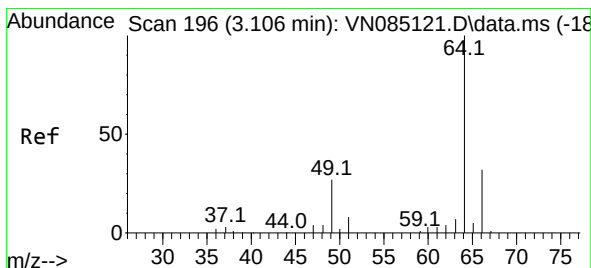
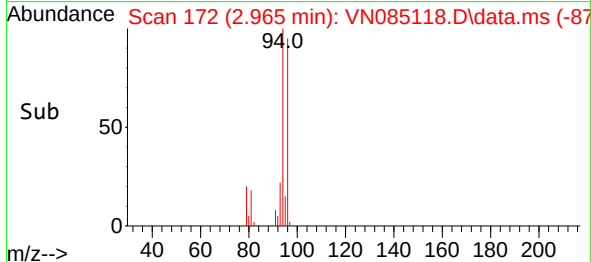
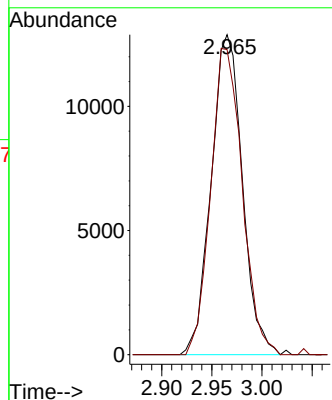
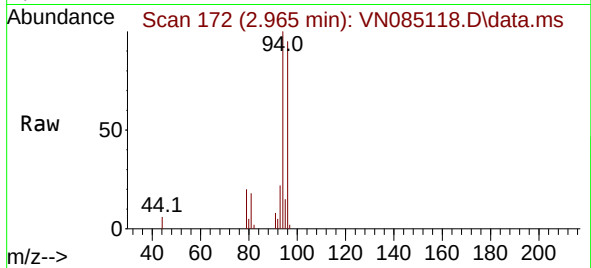




#5
Bromomethane
Concen: 19.338 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

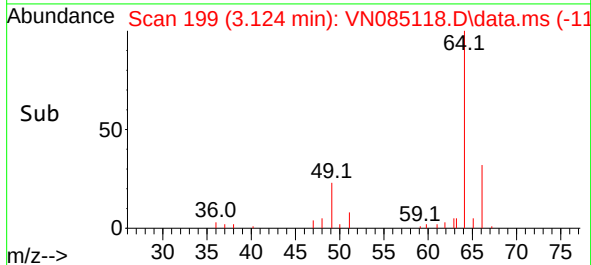
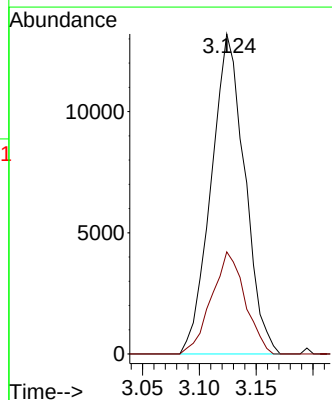
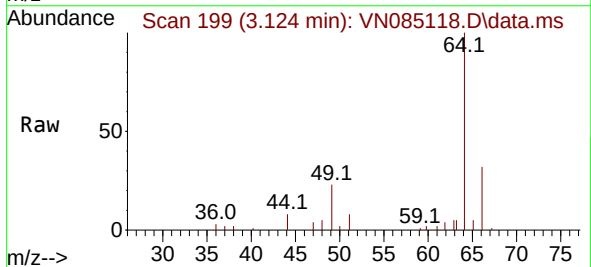
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

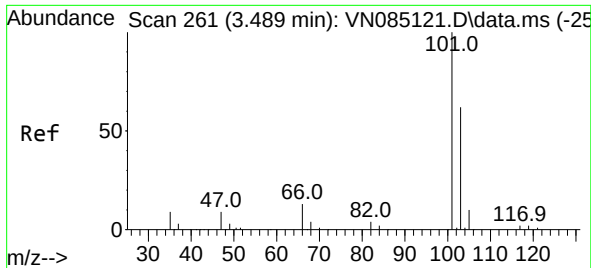
Tgt Ion: 94 Resp: 27801
Ion Ratio Lower Upper
94 100
96 95.3 76.2 114.4



#6
Chloroethane
Concen: 19.501 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 64 Resp: 27130
Ion Ratio Lower Upper
64 100
66 31.9 25.5 38.3

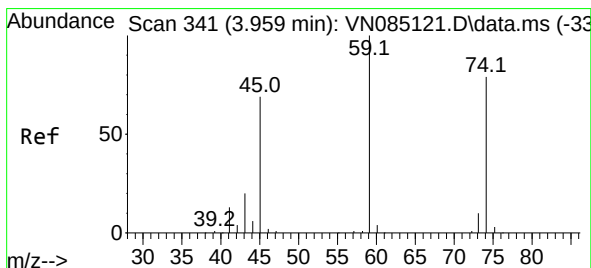
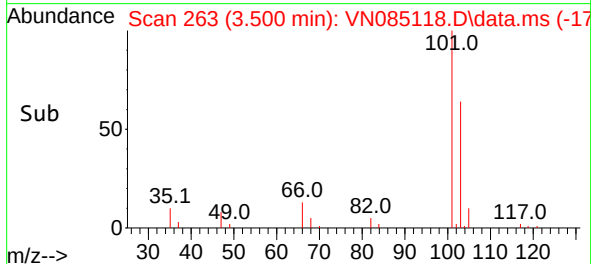
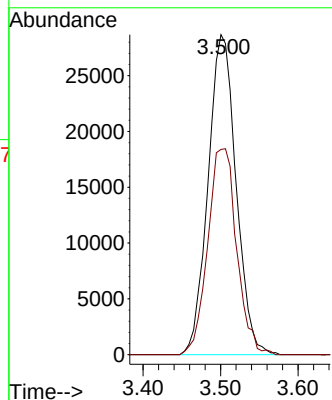
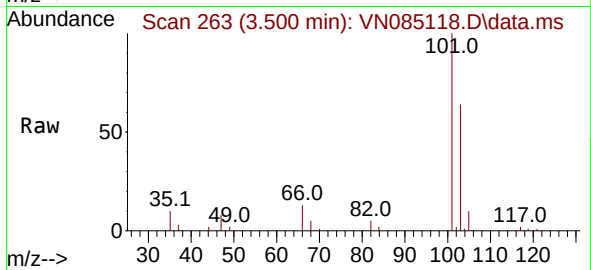




#7
 Trichlorofluoromethane
 Concen: 19.461 ug/l
 RT: 3.500 min Scan# 261
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

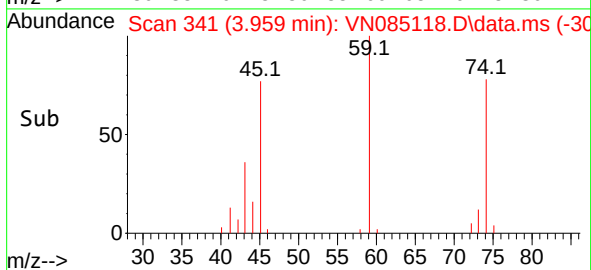
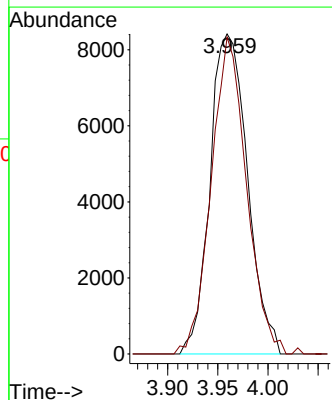
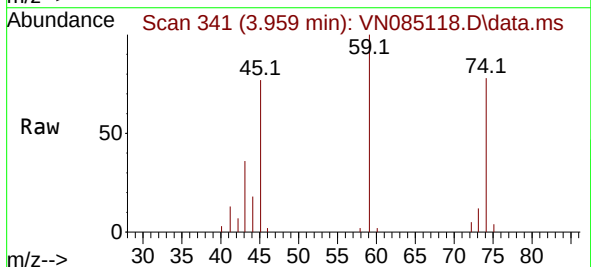
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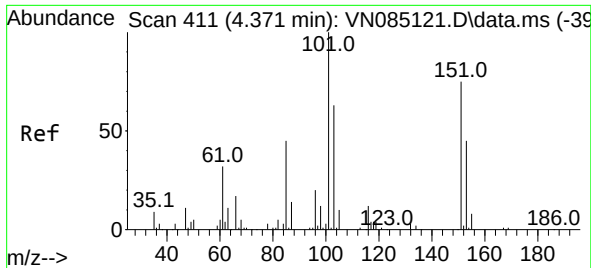
Tgt Ion:101 Resp: 72134
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.3 76.9



#8
 Diethyl Ether
 Concen: 18.596 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

Tgt Ion: 74 Resp: 21832
 Ion Ratio Lower Upper
 74 100
 45 93.2 18.6 167.8

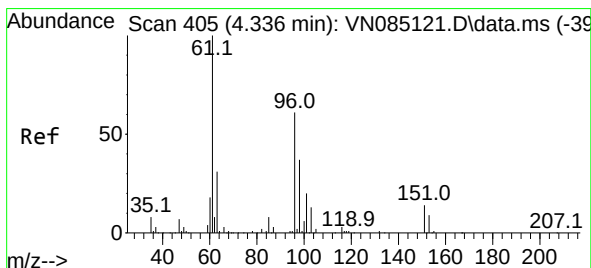
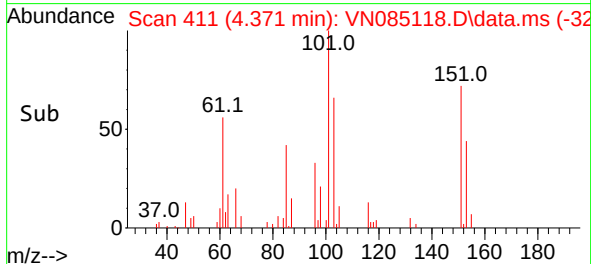
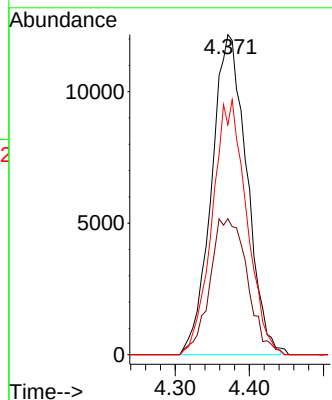
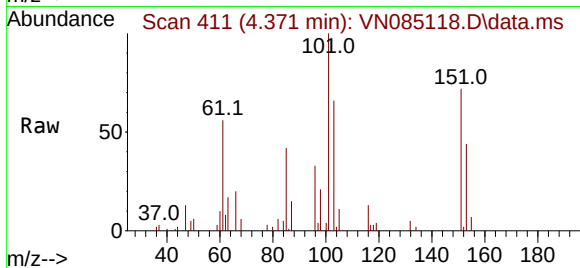




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.343 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

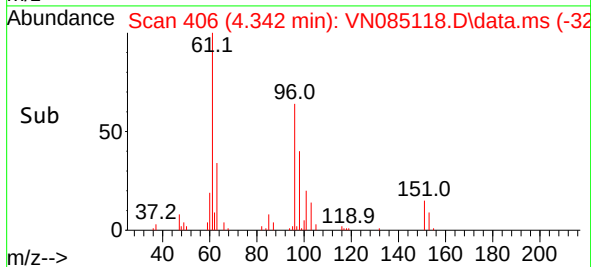
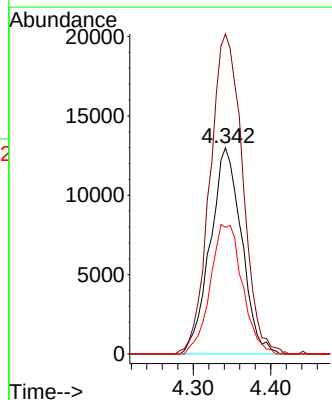
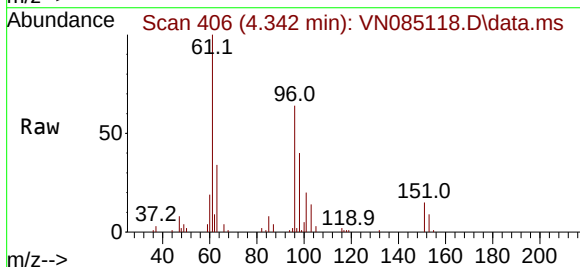
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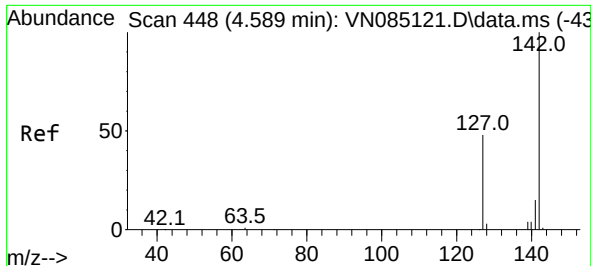
Tgt Ion:	101	Resp:	40093
Ion	Ratio	Lower	Upper
101	100		
85	44.3	0.0	88.6
151	77.9	0.0	155.8



#10
 1,1-Dichloroethene
 Concen: 19.181 ug/l
 RT: 4.342 min Scan# 406
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

Tgt Ion:	96	Resp:	36518
Ion	Ratio	Lower	Upper
96	100		
61	153.7	123.0	184.4
98	61.4	49.1	73.7

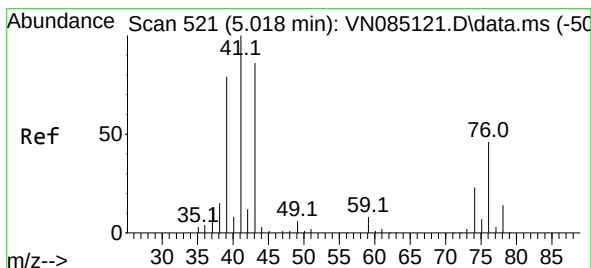
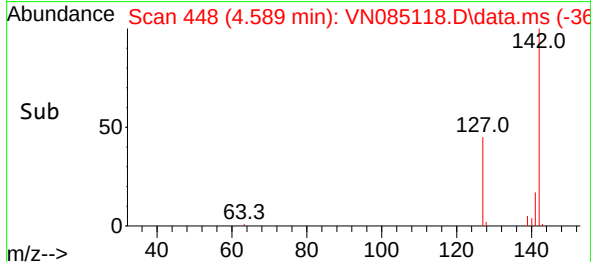
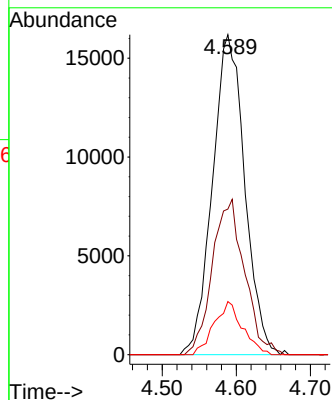
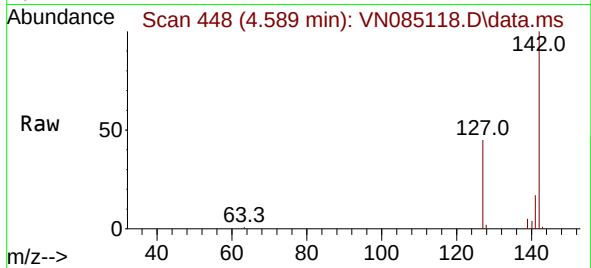




#11
Methyl Iodide
Concen: 18.514 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

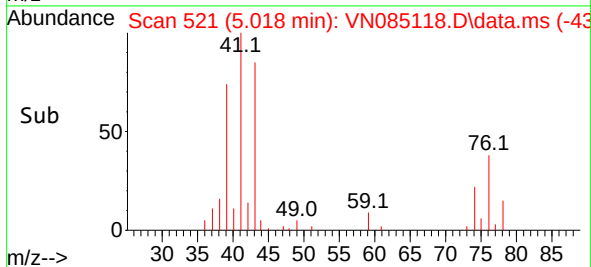
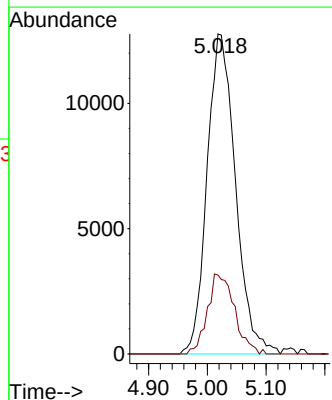
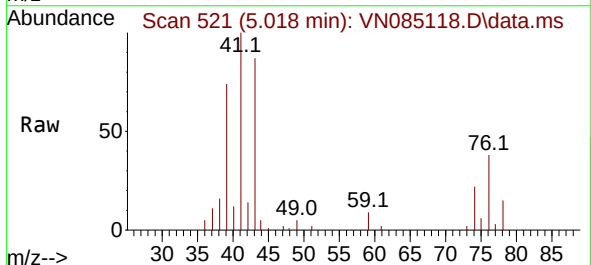
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

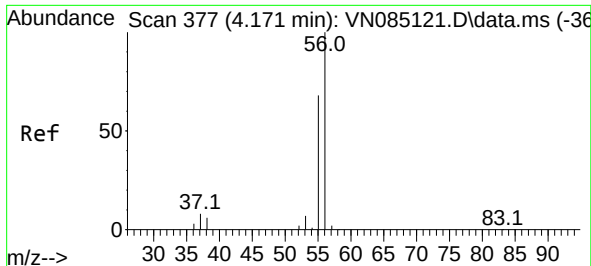
Tgt Ion:142 Resp: 48887
Ion Ratio Lower Upper
142 100
127 45.0 22.5 67.5
141 16.6 8.3 24.9



#12
Methyl Acetate
Concen: 19.131 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 43 Resp: 42971
Ion Ratio Lower Upper
43 100
74 24.7 19.8 29.6

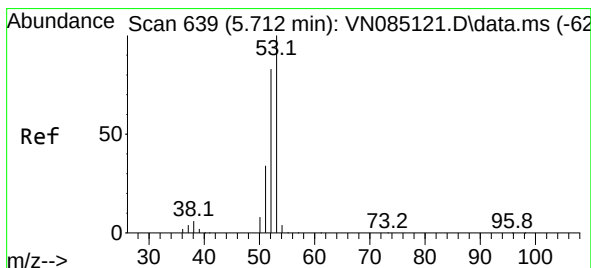
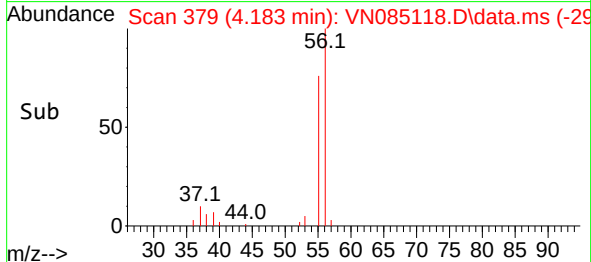
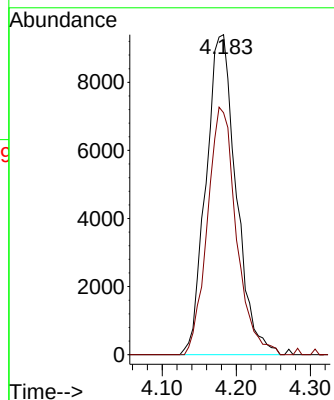
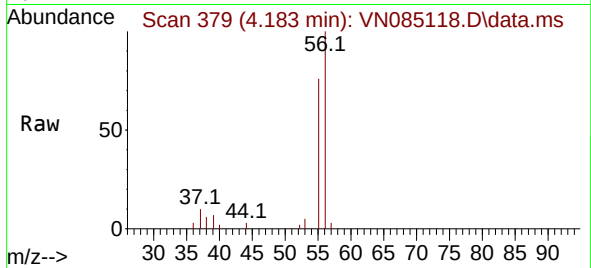




#13
Acrolein
Concen: 81.540 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

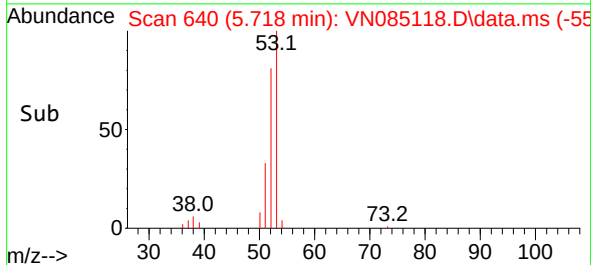
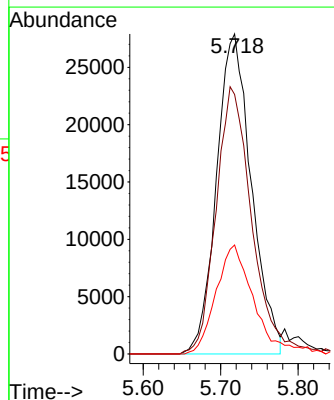
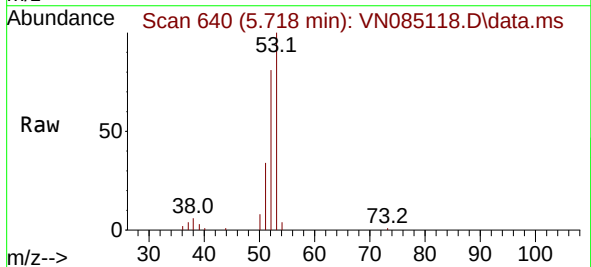
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

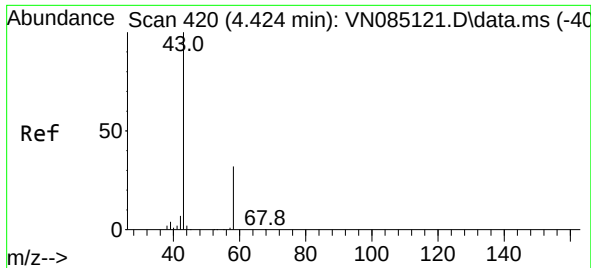
Tgt Ion: 56 Resp: 26615
Ion Ratio Lower Upper
56 100
55 74.2 59.4 89.0



#14
Acrylonitrile
Concen: 93.488 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 53 Resp: 87191
Ion Ratio Lower Upper
53 100
52 85.7 42.9 128.5
51 34.3 17.2 51.5

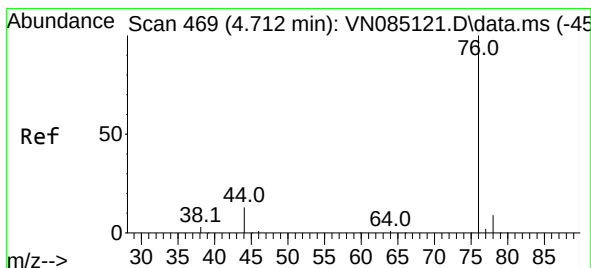
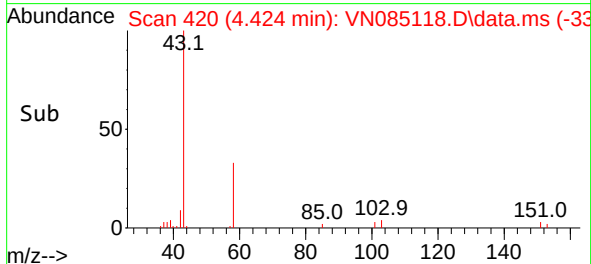
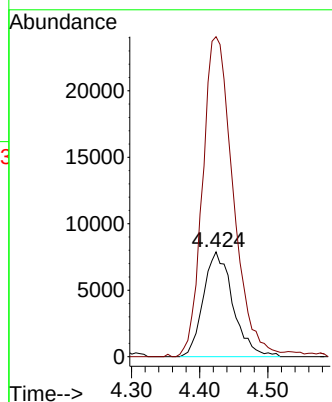
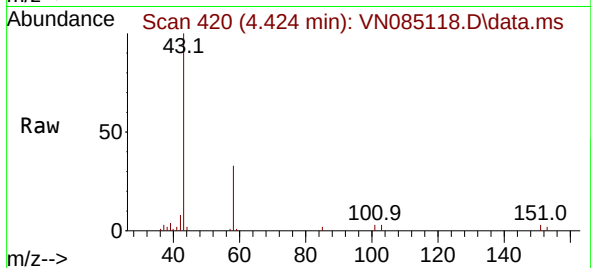




#15
Acetone
Concen: 94.168 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

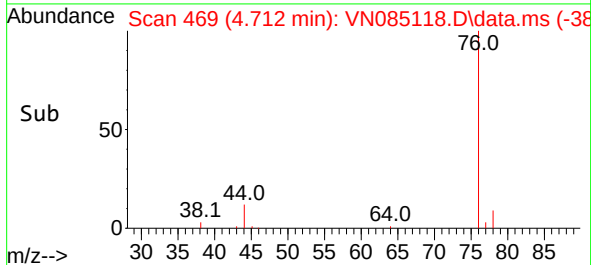
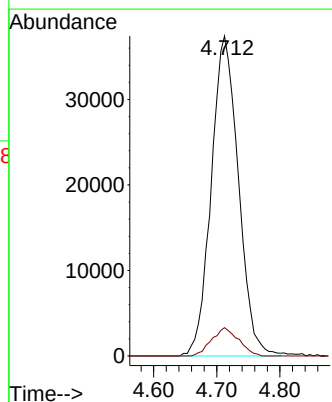
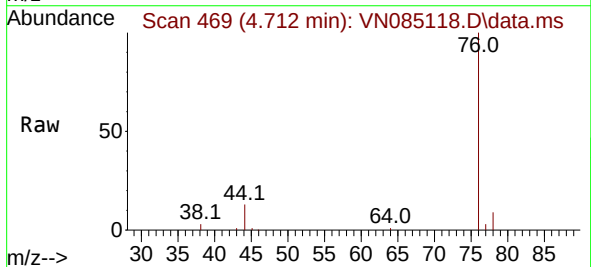
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

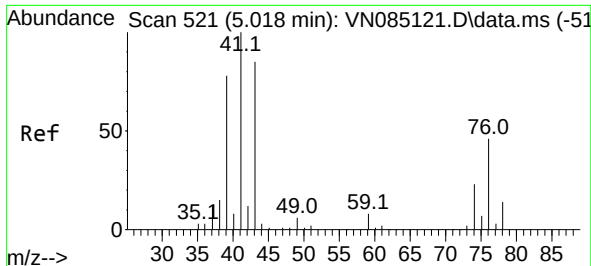
Tgt Ion: 58 Resp: 23800
Ion Ratio Lower Upper
58 100
43 302.9 242.3 363.5



#16
Carbon Disulfide
Concen: 19.659 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 76 Resp: 111875
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7





#17

Allyl chloride

Concen: 18.351 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

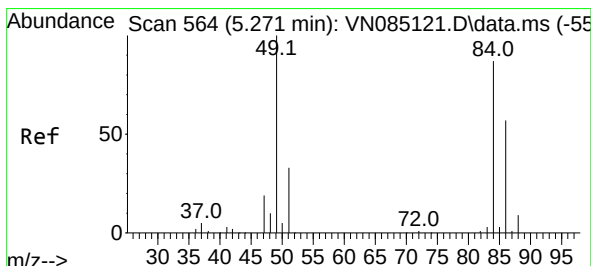
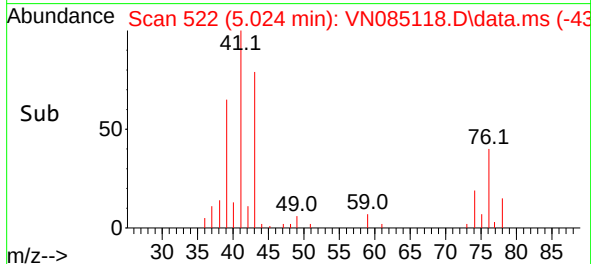
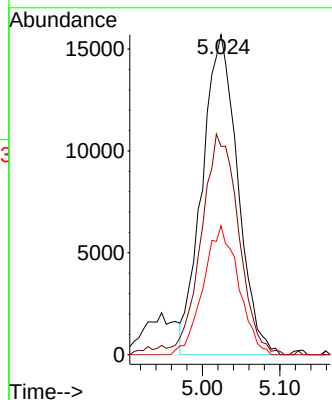
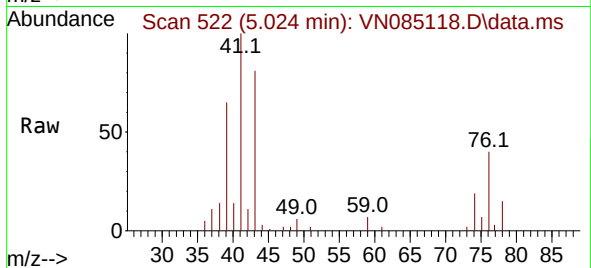
Tgt Ion: 41 Resp: 49995

Ion Ratio Lower Upper

41 100

39 64.1 32.0 96.2

76 40.3 20.2 60.5



#18

Methylene Chloride

Concen: 19.412 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Tgt Ion: 84 Resp: 41937

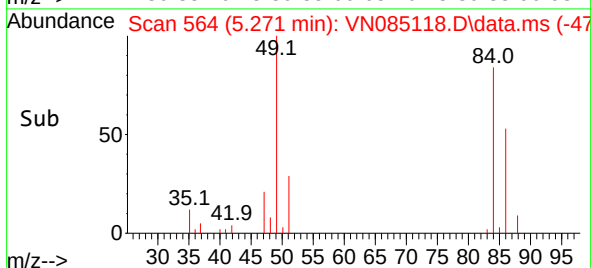
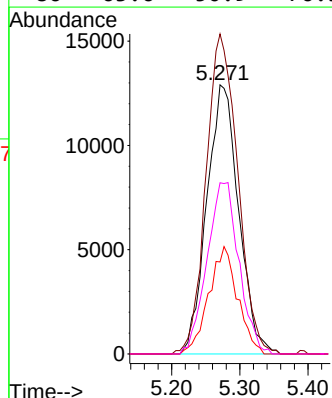
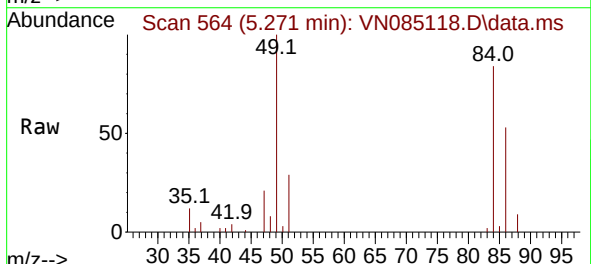
Ion Ratio Lower Upper

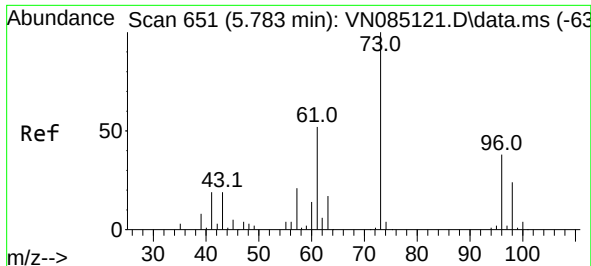
84 100

49 118.9 95.1 142.7

51 34.2 27.4 41.0

86 63.6 50.9 76.3

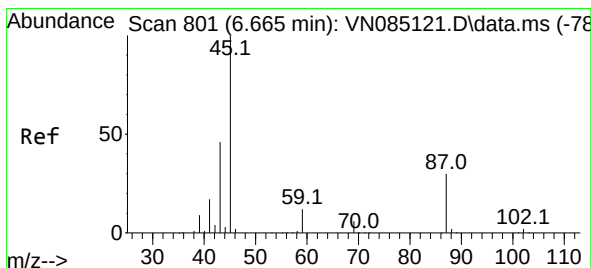
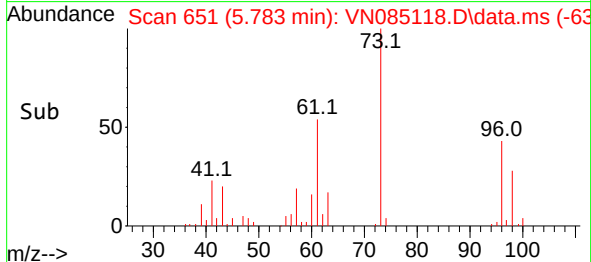
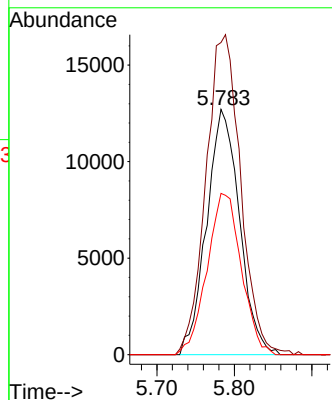
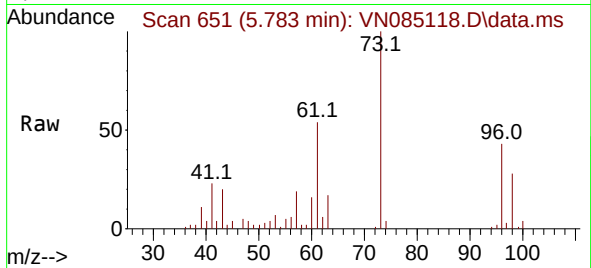




#19
trans-1,2-Dichloroethene
Concen: 18.942 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

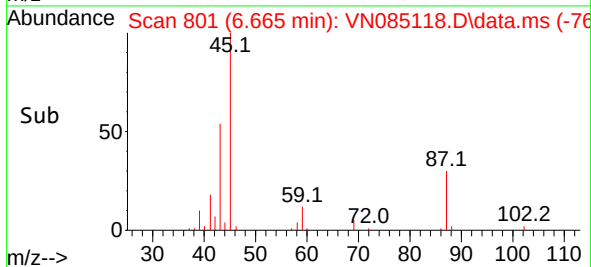
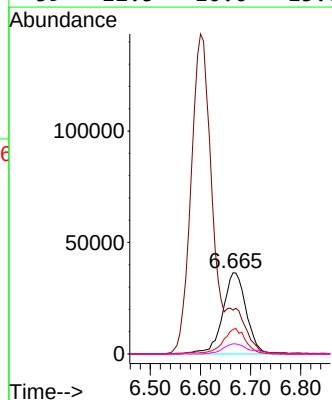
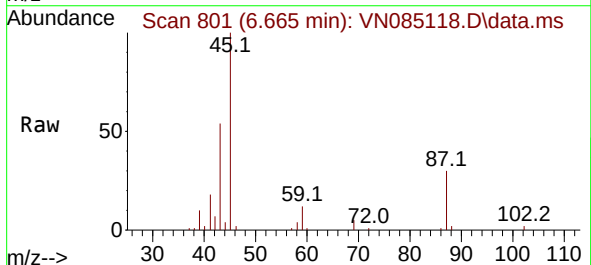
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

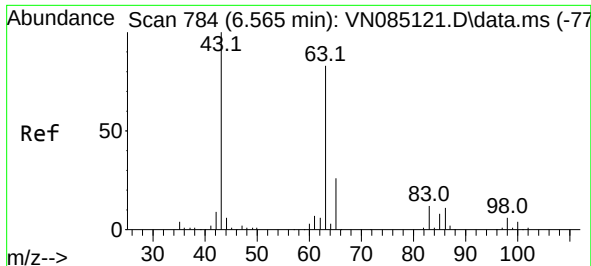
Tgt Ion: 96 Resp: 37486
Ion Ratio Lower Upper
96 100
61 125.5 100.4 150.6
98 65.8 52.6 79.0



#20
Diisopropyl ether
Concen: 19.776 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 45 Resp: 118238
Ion Ratio Lower Upper
45 100
43 52.4 41.9 62.9
87 30.1 24.1 36.1
59 12.5 10.0 15.0

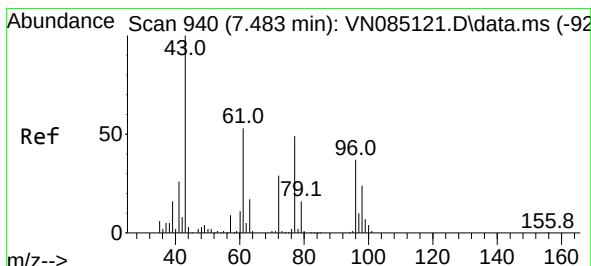
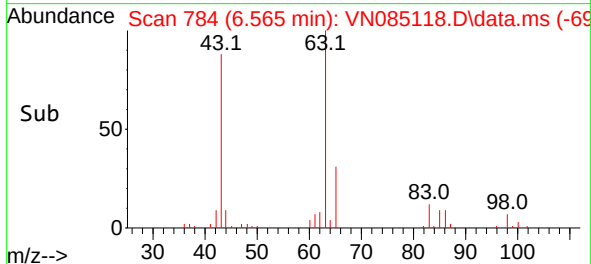
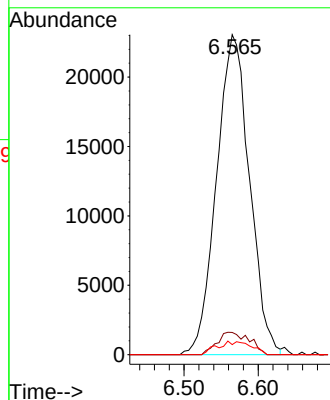
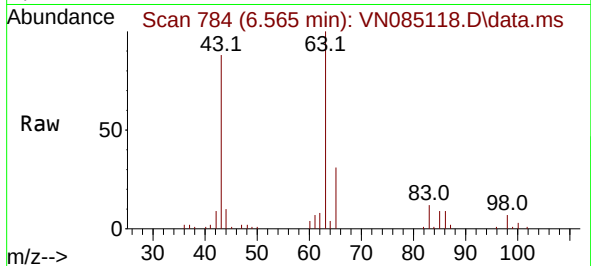




#21
1,1-Dichloroethane
Concen: 19.296 ug/l
RT: 6.565 min Scan# 712
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

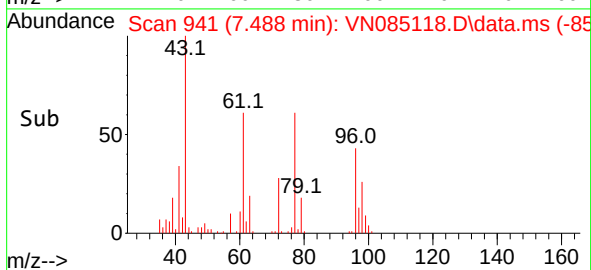
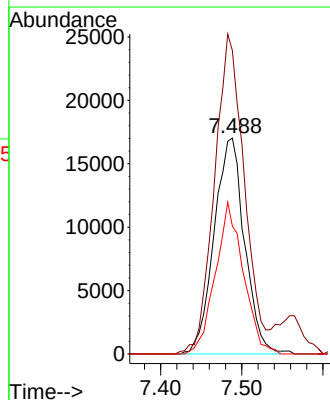
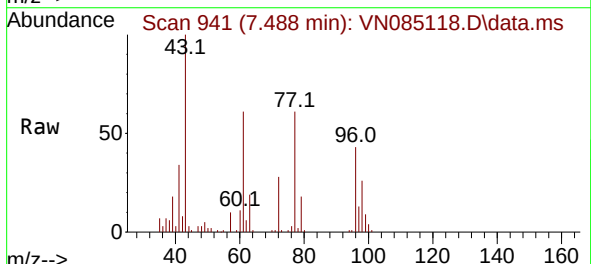
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

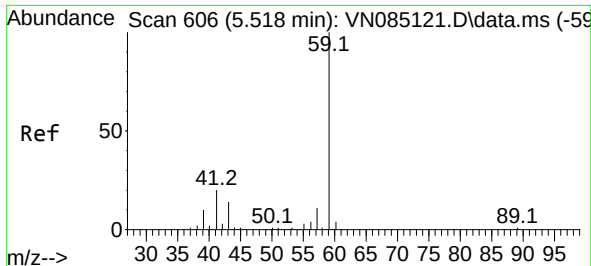
Tgt Ion: 63 Resp: 71204
Ion Ratio Lower Upper
63 100
98 6.9 3.5 10.4
100 3.2 1.6 4.8



#22
cis-1,2-Dichloroethene
Concen: 19.471 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 96 Resp: 44288
Ion Ratio Lower Upper
96 100
61 144.9 115.9 173.9
98 64.8 51.8 77.8

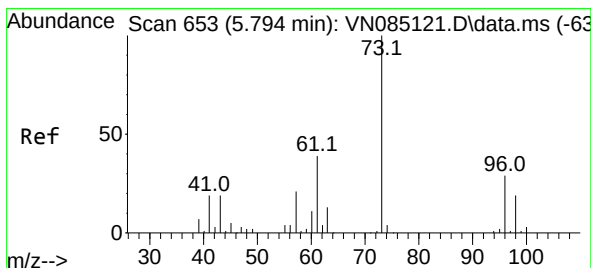
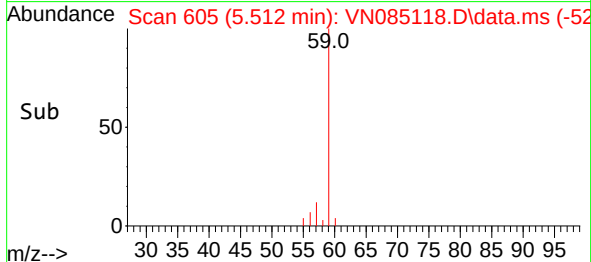
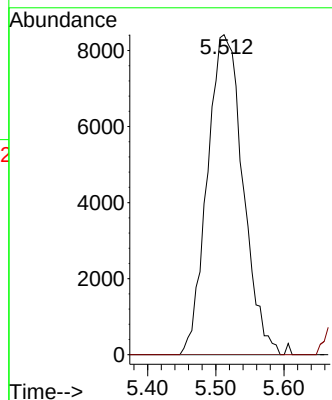
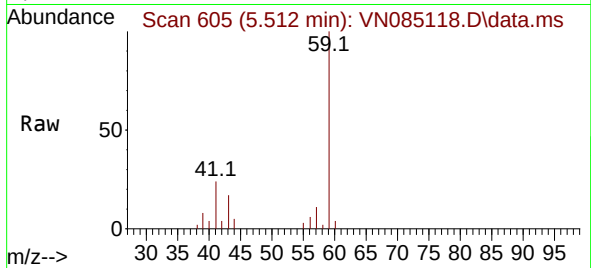




#23
tert-Butyl Alcohol
Concen: 91.438 ug/l
RT: 5.512 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

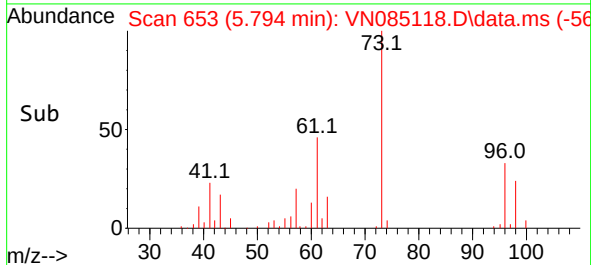
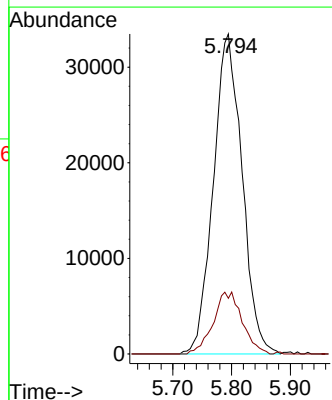
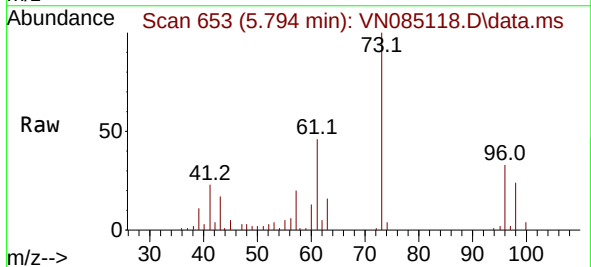
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

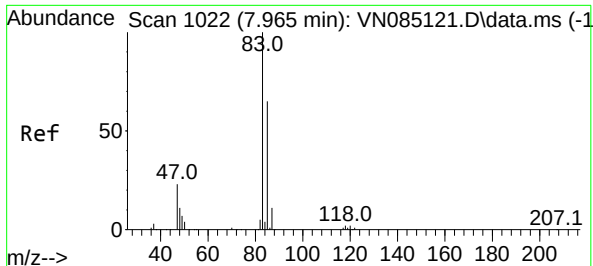
Tgt Ion: 59 Resp: 30593
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 19.125 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 73 Resp: 113672
Ion Ratio Lower Upper
73 100
43 10.9 8.7 13.1

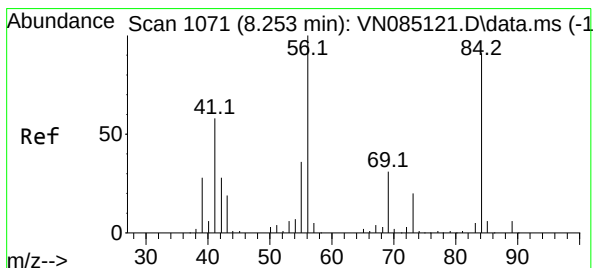
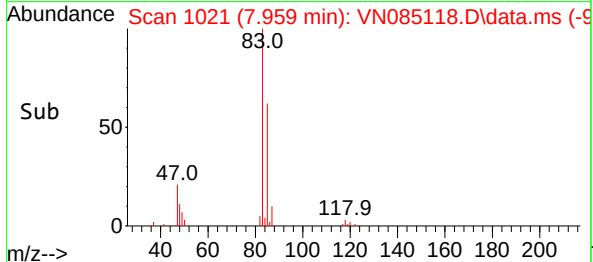
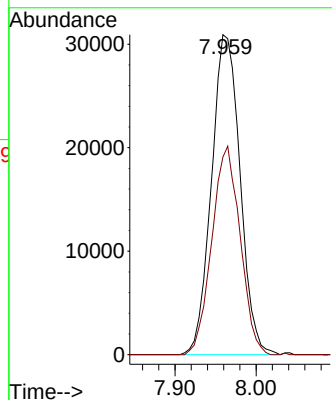
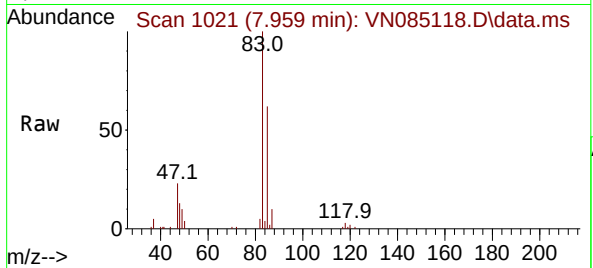




#25
Chloroform
Concen: 19.596 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

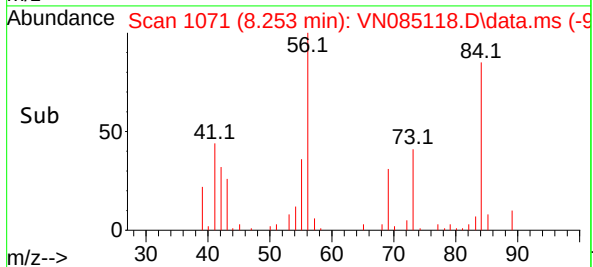
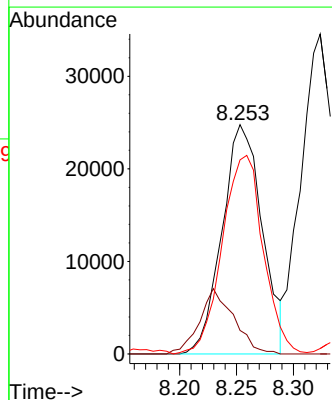
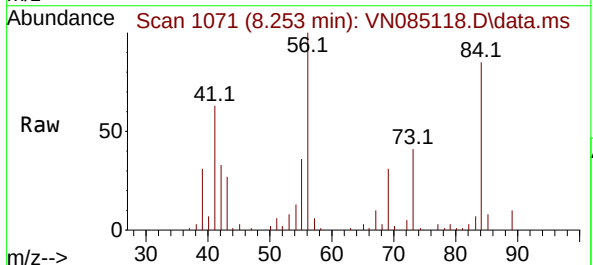
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

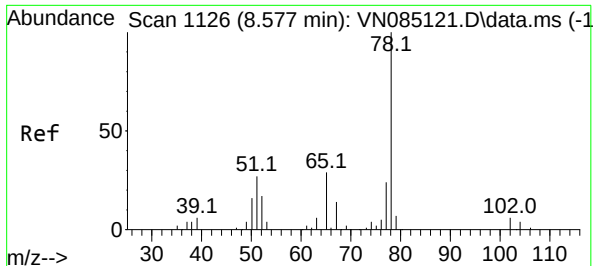
Tgt Ion: 83 Resp: 75756
Ion Ratio Lower Upper
83 100
85 61.7 49.4 74.0



#26
Cyclohexane
Concen: 20.061 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 56 Resp: 60954
Ion Ratio Lower Upper
56 100
89 24.4 19.5 29.3
84 88.2 70.6 105.8

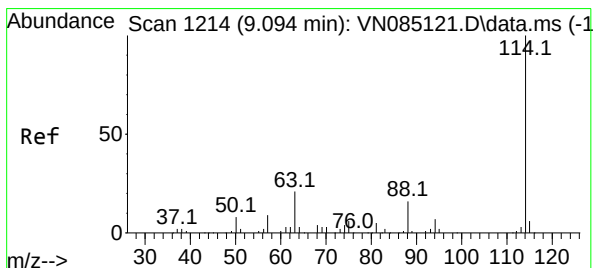
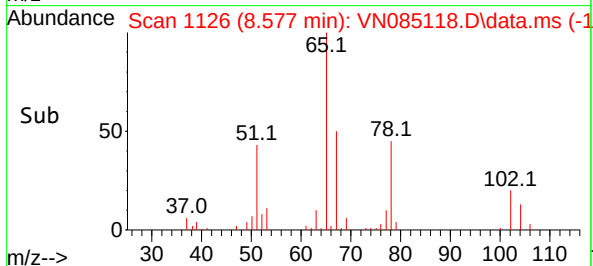
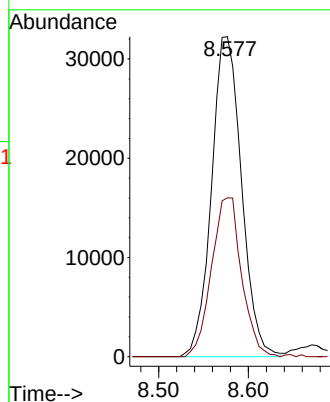
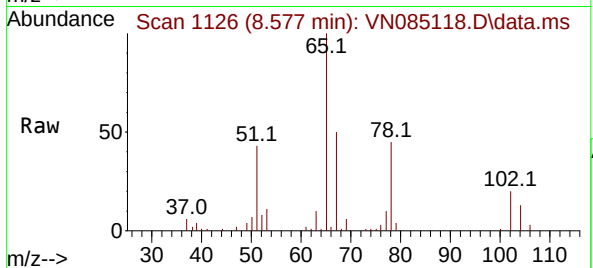




#27
 1,2-Dichloroethane-d4
 Concen: 30.155 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

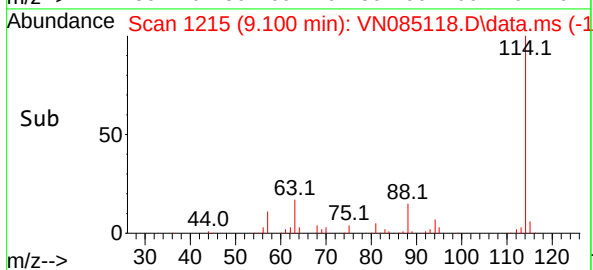
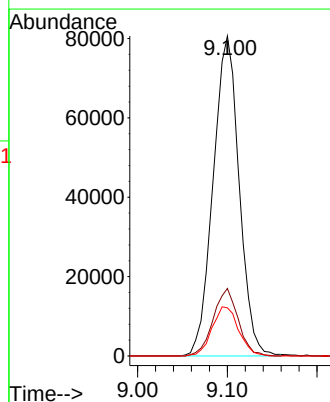
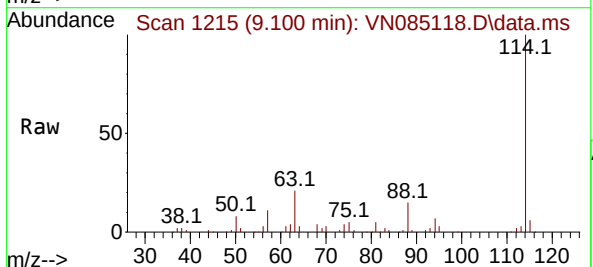
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

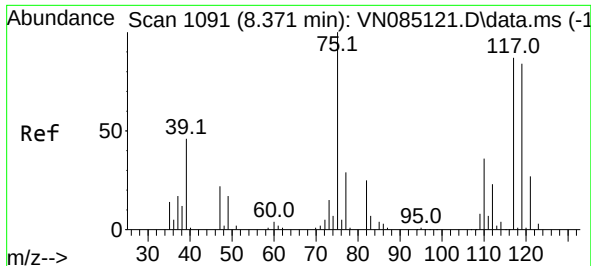
Tgt Ion: 65 Resp: 74804
 Ion Ratio Lower Upper
 65 100
 67 49.9 39.9 59.9



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN085118.D
 Acq: 06 Dec 2024 10:26

Tgt Ion: 114 Resp: 162398
 Ion Ratio Lower Upper
 114 100
 63 20.2 16.2 24.2
 88 15.6 12.5 18.7



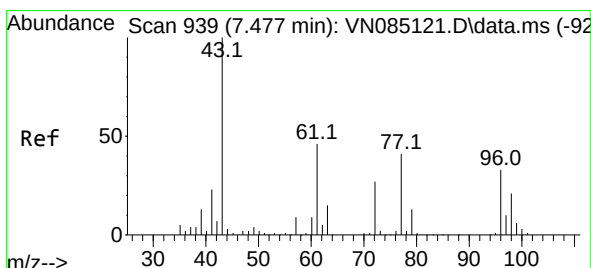
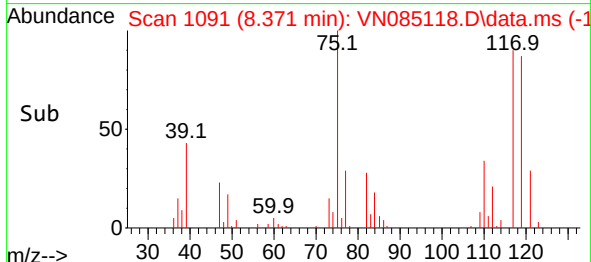
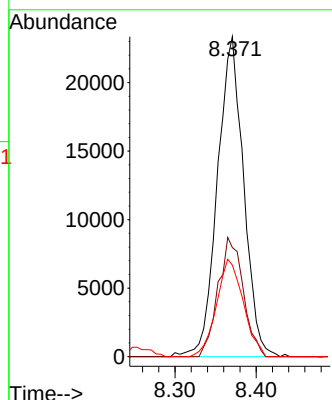
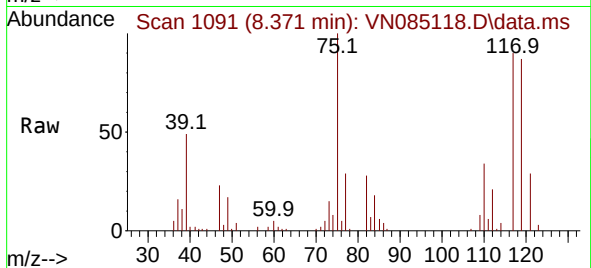


#29
1,1-Dichloropropene
Concen: 19.930 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 75 Resp: 52226

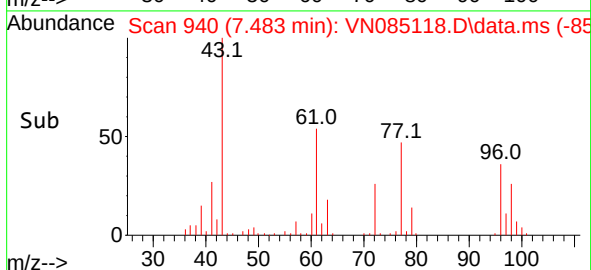
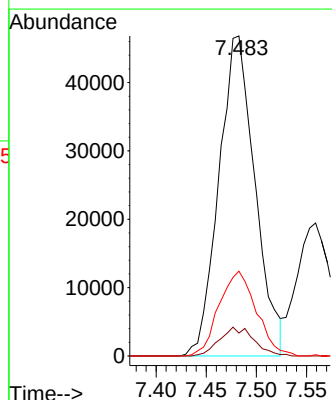
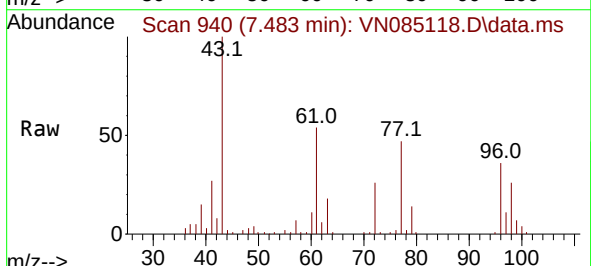
Ion	Ratio	Lower	Upper
75	100		
110	35.8	0.0	71.6
77	31.1	0.0	62.2

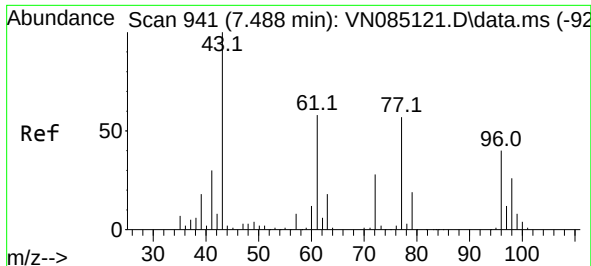


#30
2-Butanone
Concen: 97.739 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 43 Resp: 117537

Ion	Ratio	Lower	Upper
43	100		
57	8.6	6.9	10.3
72	27.3	21.8	32.8

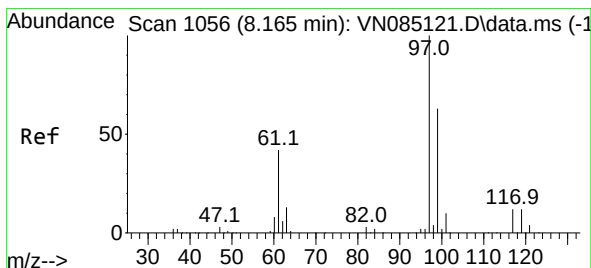
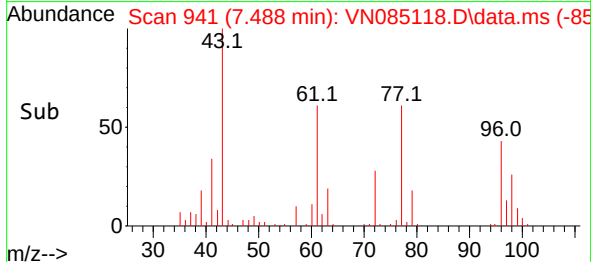
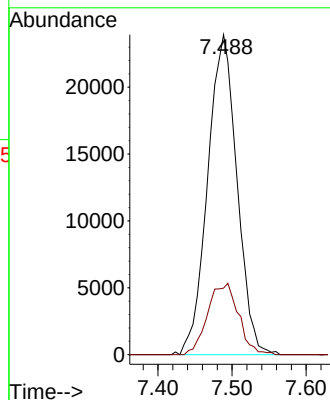
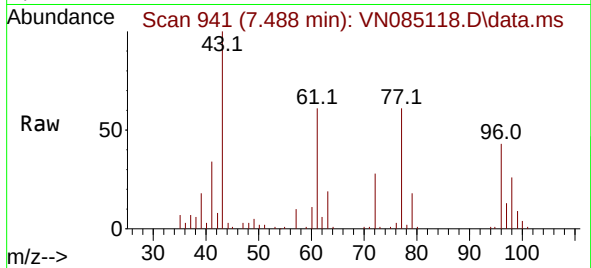




#31
2,2-Dichloropropane
Concen: 19.575 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

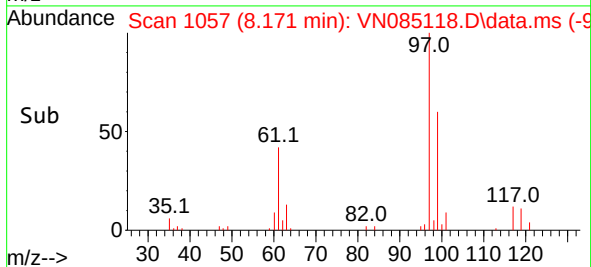
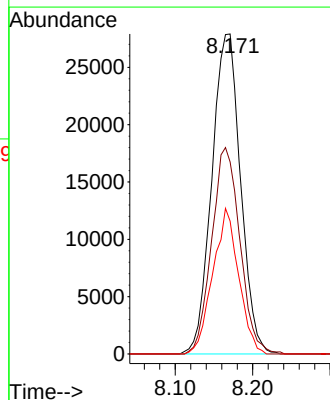
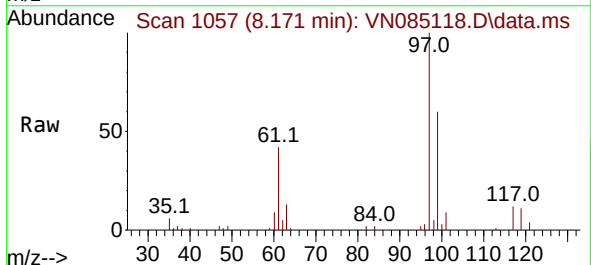
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

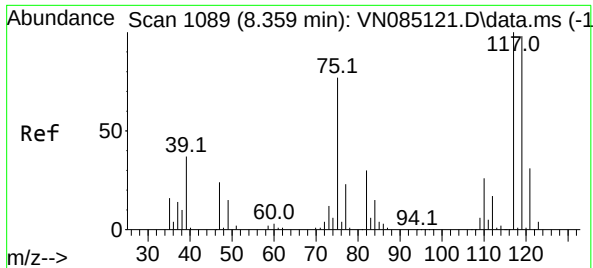
Tgt Ion: 77 Resp: 65781
Ion Ratio Lower Upper
77 100
97 0.0 0.0 0.0



#32
1,1,1-Trichloroethane
Concen: 20.293 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 97 Resp: 71977
Ion Ratio Lower Upper
97 100
99 63.5 50.8 76.2
61 40.9 32.7 49.1

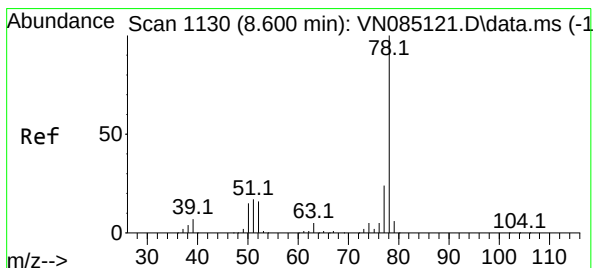
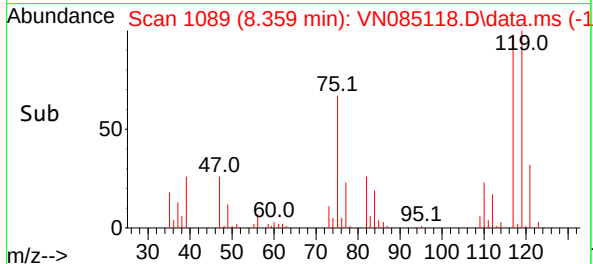
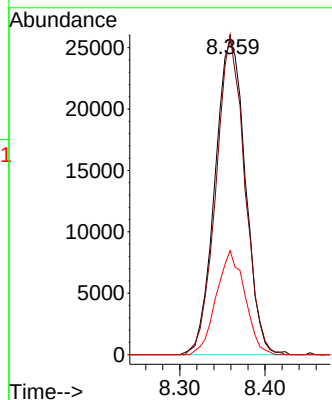
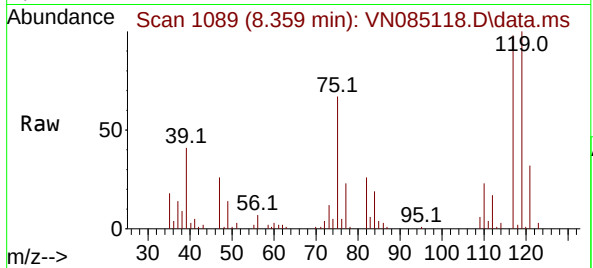




#33
Carbon Tetrachloride
Concen: 19.861 ug/l
RT: 8.359 min Scan# 1109
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

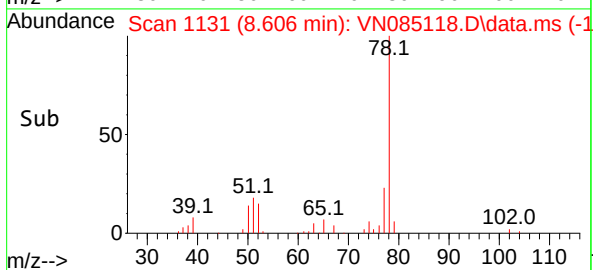
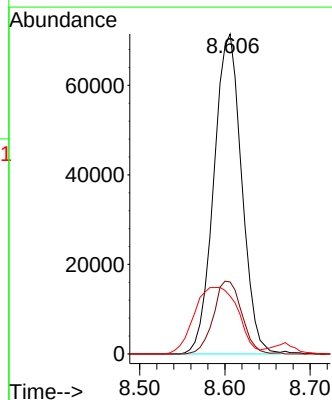
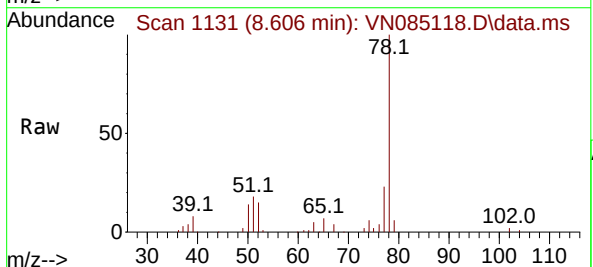
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

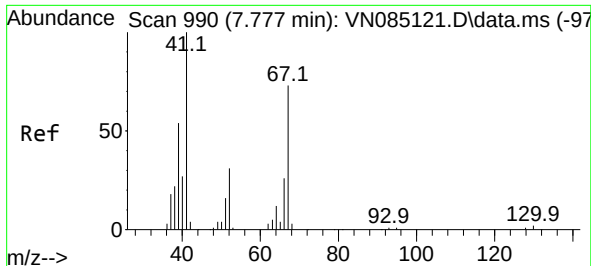
Tgt Ion:117 Resp: 63567
Ion Ratio Lower Upper
117 100
119 102.0 81.6 122.4
121 33.1 26.5 39.7



#34
Benzene
Concen: 19.740 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 78 Resp: 162502
Ion Ratio Lower Upper
78 100
77 22.5 18.0 27.0
51 15.5 12.4 18.6



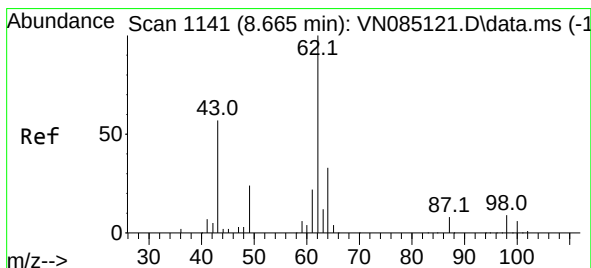
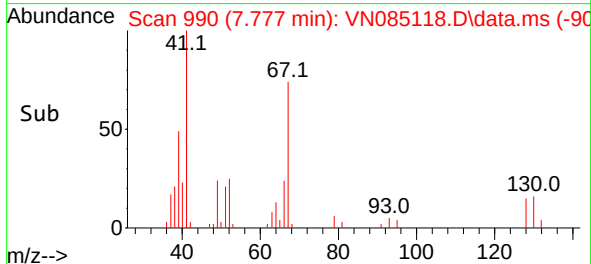
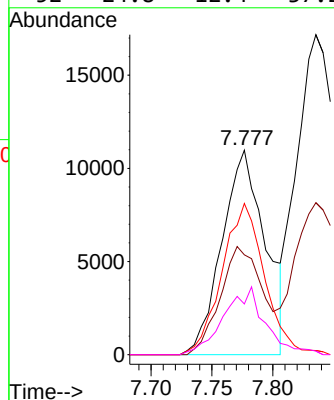
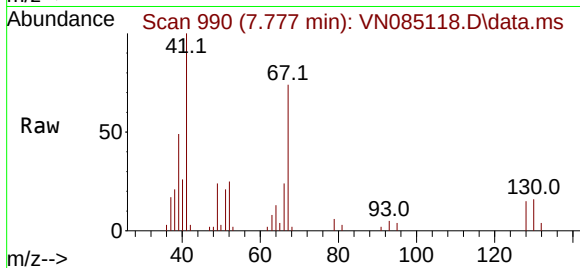


#35
Methacrylonitrile
Concen: 20.040 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 41 Resp: 27120

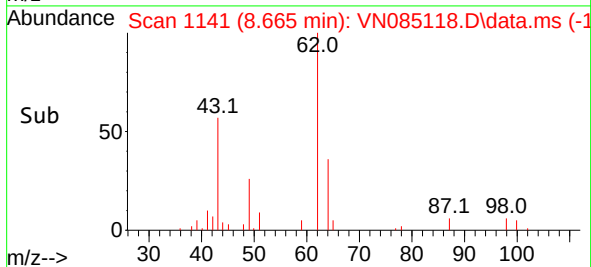
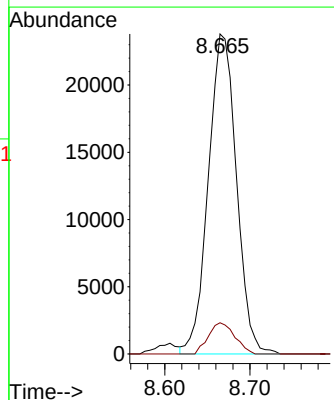
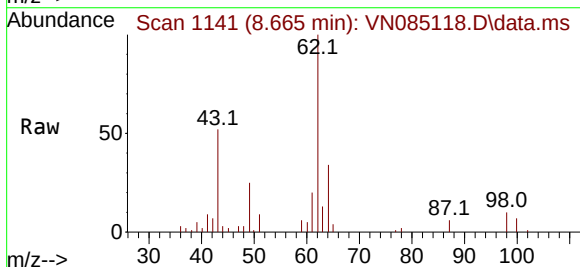
Ion	Ratio	Lower	Upper
41	100		
39	48.8	24.4	73.2
67	73.9	37.0	110.9
52	24.8	12.4	37.2

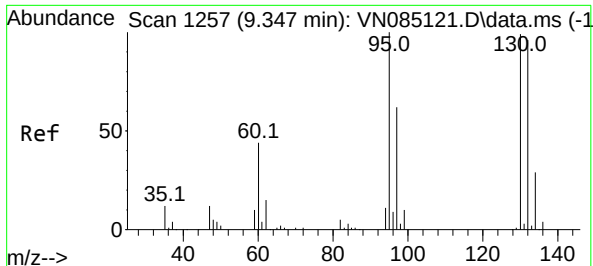


#36
1,2-Dichloroethane
Concen: 19.494 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 62 Resp: 54631

Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.3	10.9

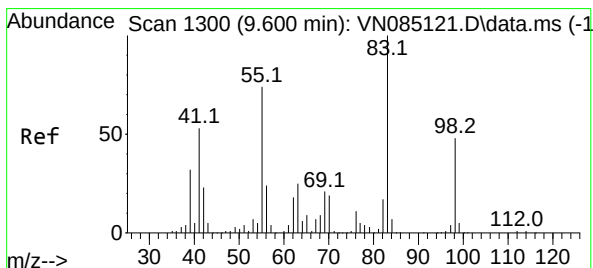
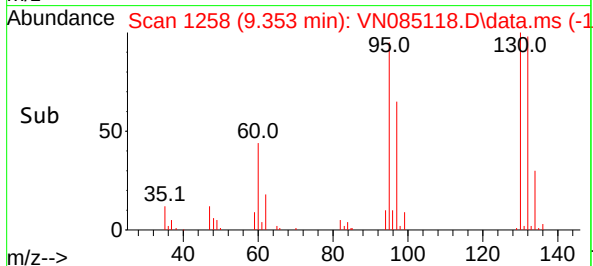
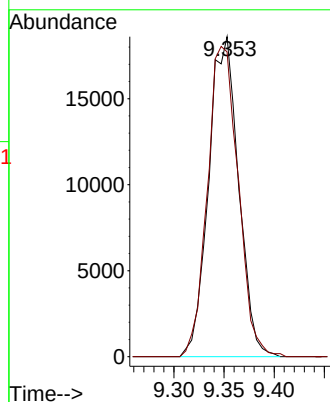
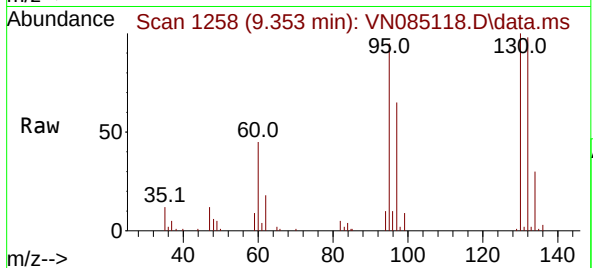




#37
Trichloroethene
Concen: 19.667 ug/l
RT: 9.353 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

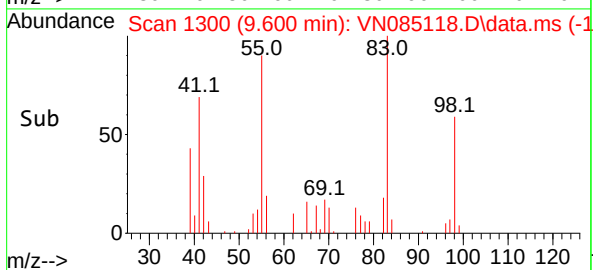
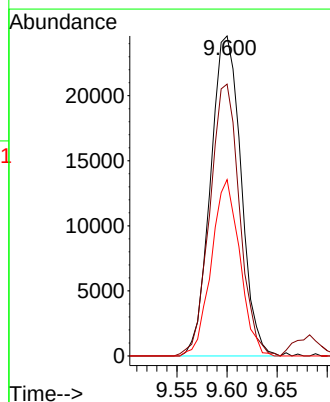
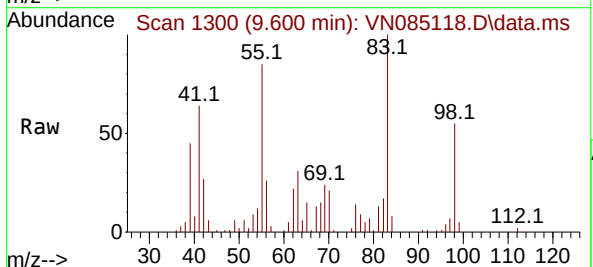
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

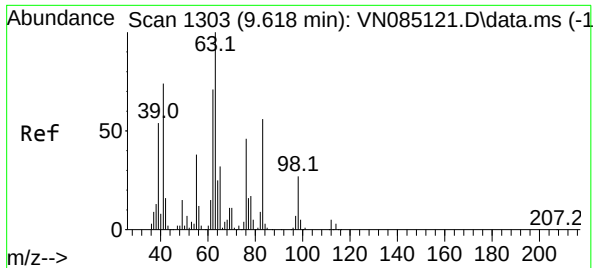
Tgt Ion:130 Resp: 38555
Ion Ratio Lower Upper
130 100
95 95.3 76.2 114.4



#38
Methylcyclohexane
Concen: 18.261 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 83 Resp: 52032
Ion Ratio Lower Upper
83 100
55 82.9 41.4 124.4
98 51.4 25.7 77.1





#39

1,2-Dichloropropane

Concen: 20.064 ug/l

RT: 9.618 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

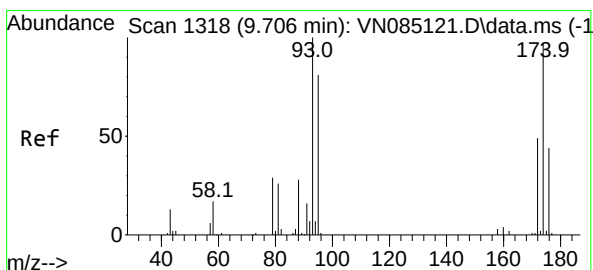
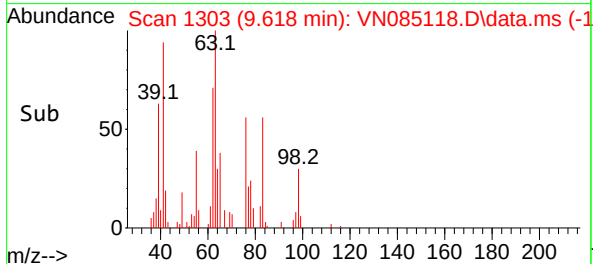
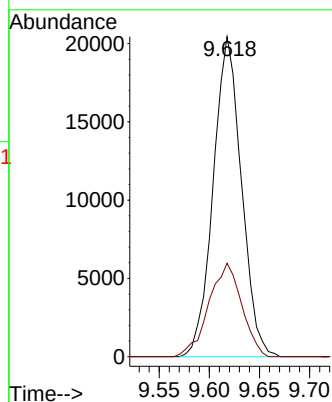
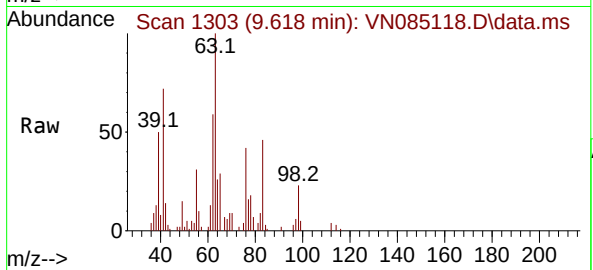
VSTDICCC020

Tgt Ion: 63 Resp: 40007

Ion Ratio Lower Upper

63 100

65 29.2 23.4 35.0



#40

Dibromomethane

Concen: 20.145 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

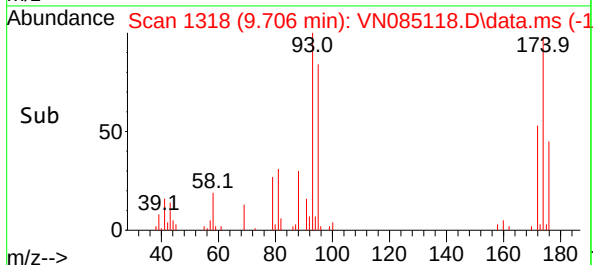
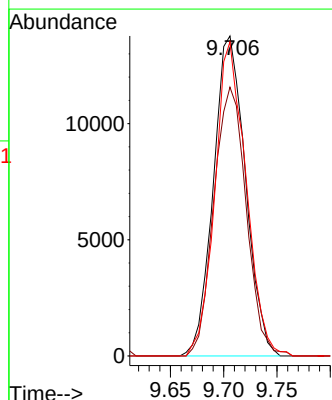
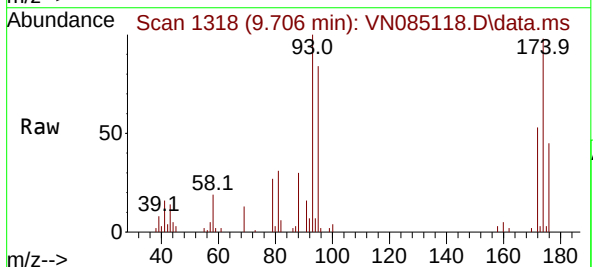
Tgt Ion: 93 Resp: 28813

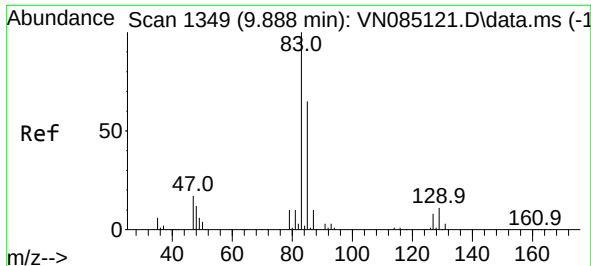
Ion Ratio Lower Upper

93 100

95 84.7 0.0 169.4

174 94.9 0.0 189.8

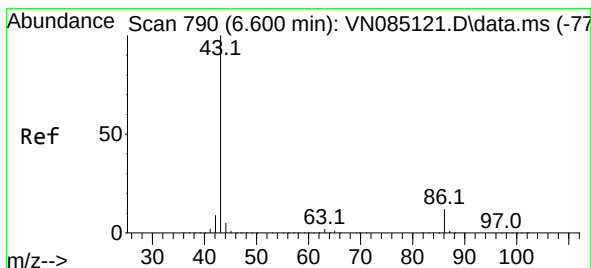
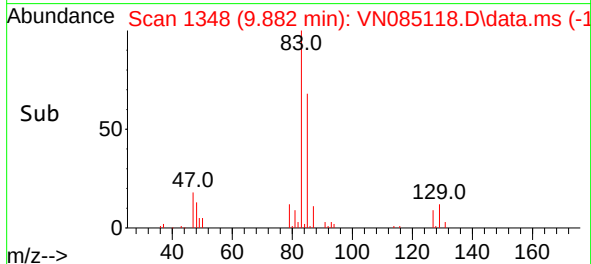
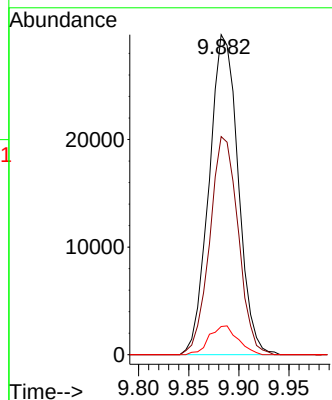
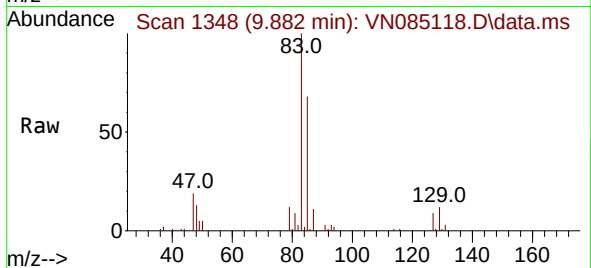




#41
Bromodichloromethane
Concen: 19.628 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

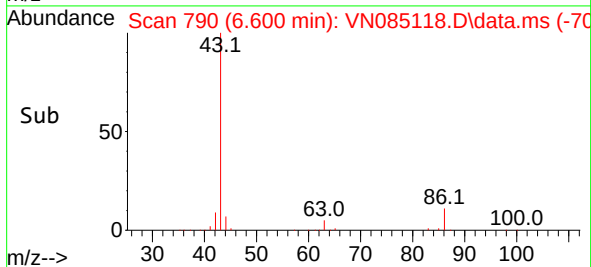
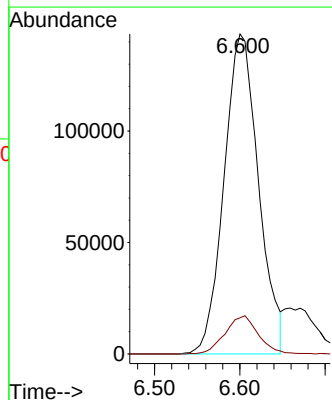
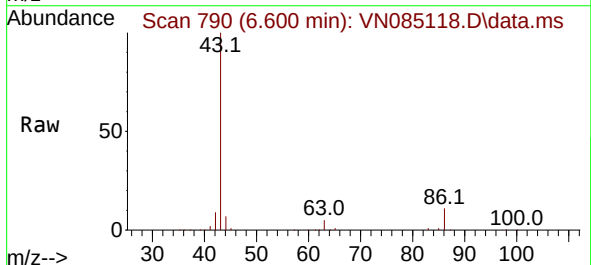
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

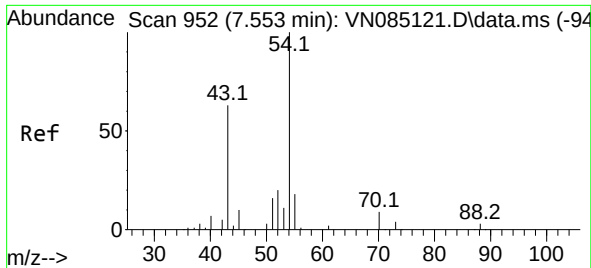
Tgt Ion: 83 Resp: 60013
Ion Ratio Lower Upper
83 100
85 68.2 54.6 81.8
127 8.8 7.0 10.6



#42
Vinyl Acetate
Concen: 96.136 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 43 Resp: 404546
Ion Ratio Lower Upper
43 100
86 11.5 9.2 13.8

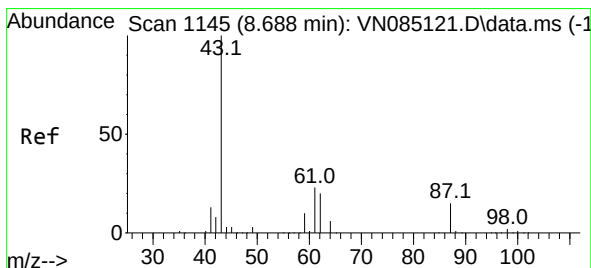
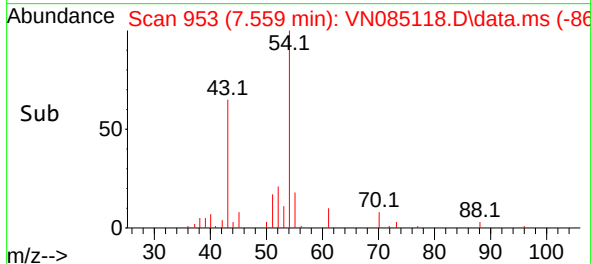
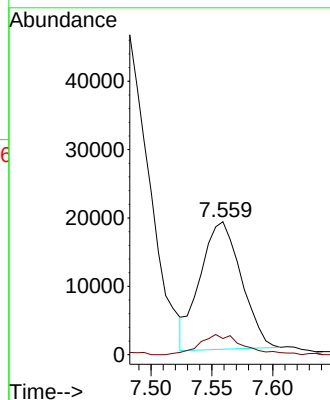
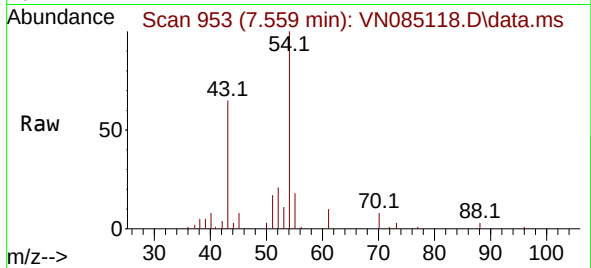




#43
Ethyl Acetate
Concen: 18.276 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

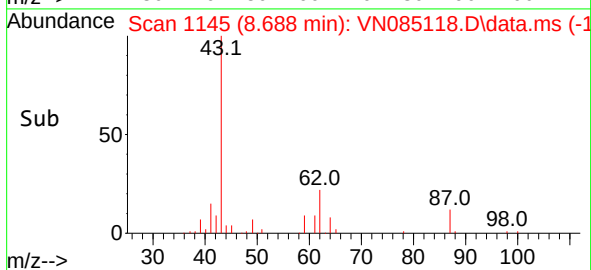
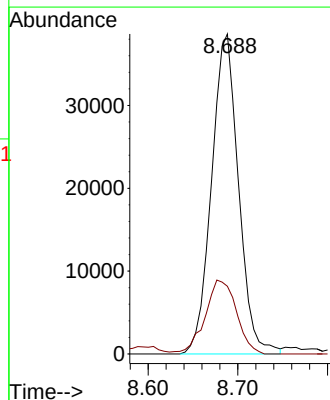
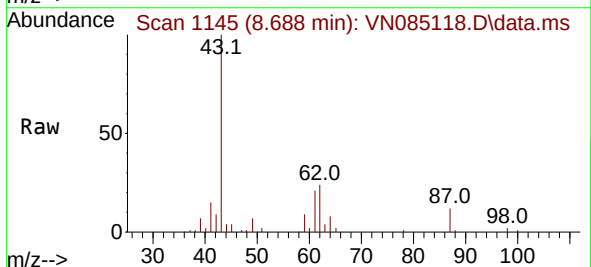
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

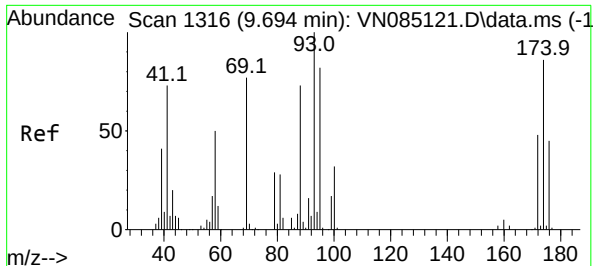
Tgt Ion: 43 Resp: 43730
Ion Ratio Lower Upper
43 100
45 16.6 13.3 19.9



#44
Isopropyl Acetate
Concen: 19.412 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 43 Resp: 80717
Ion Ratio Lower Upper
43 100
61 26.9 21.5 32.3

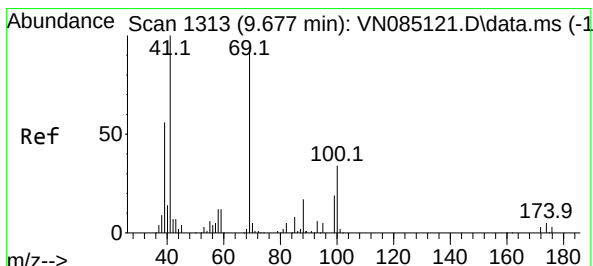
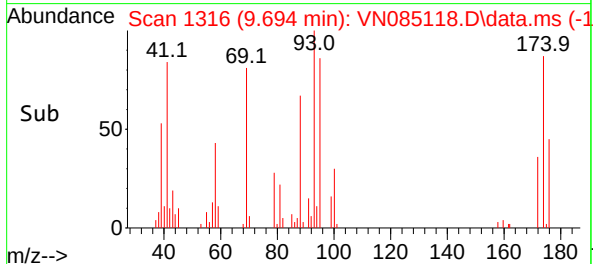
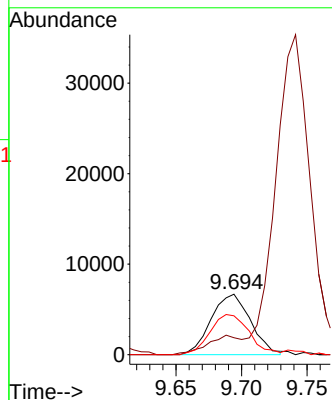
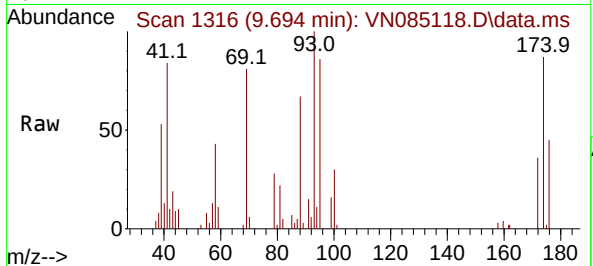




#45
1,4-Dioxane
Concen: 403.408 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

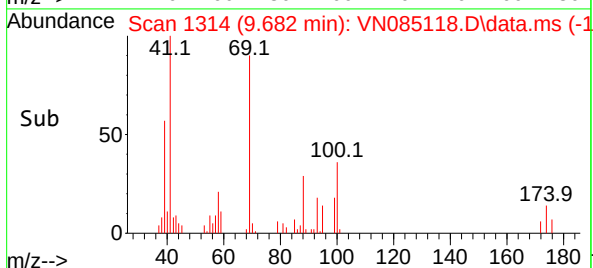
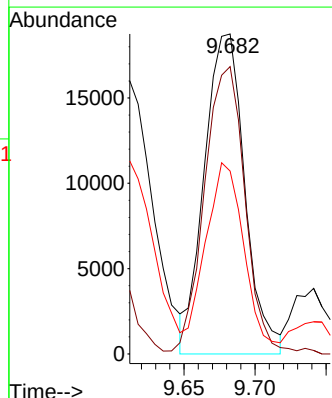
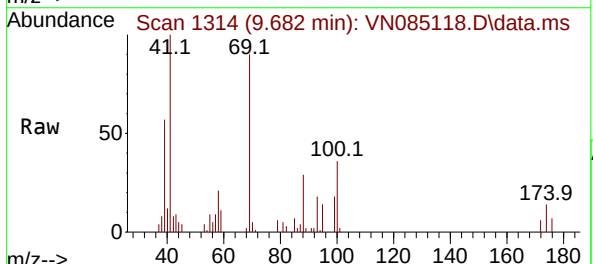
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

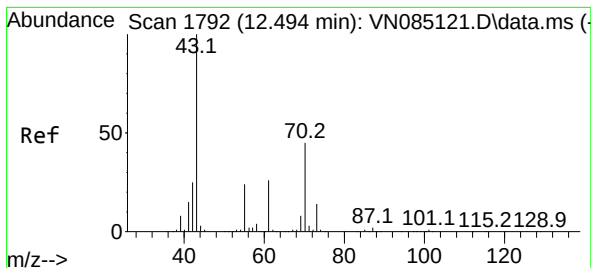
Tgt Ion: 88 Resp: 13988
Ion Ratio Lower Upper
88 100
43 27.1 21.7 32.5
58 65.8 52.6 79.0



#46
Methyl methacrylate
Concen: 19.535 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 41 Resp: 37174
Ion Ratio Lower Upper
41 100
69 93.3 46.7 140.0
39 57.0 28.5 85.5





#47

n-amyl acetate

Concen: 19.154 ug/l

RT: 12.494 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

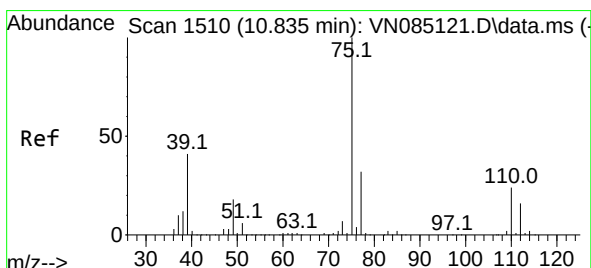
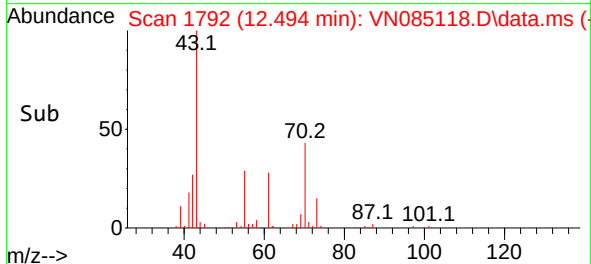
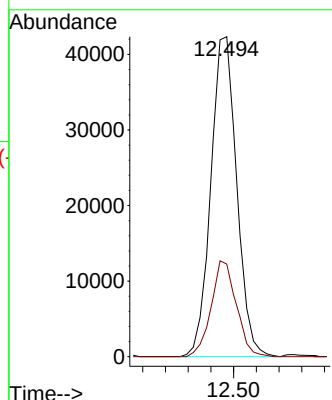
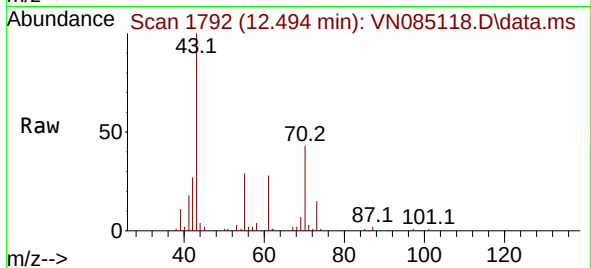
VSTDICCC020

Tgt Ion: 43 Resp: 67009

Ion Ratio Lower Upper

43 100

55 29.1 23.3 34.9



#48

t-1,3-Dichloropropene

Concen: 18.657 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085118.D

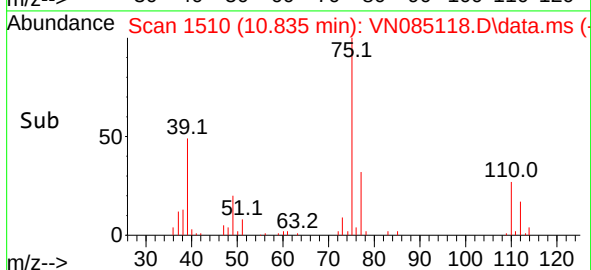
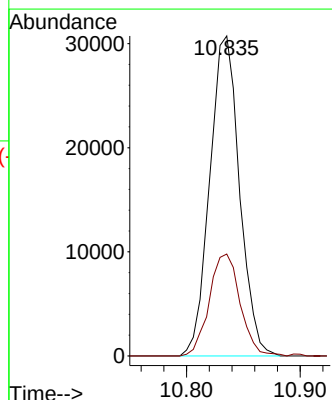
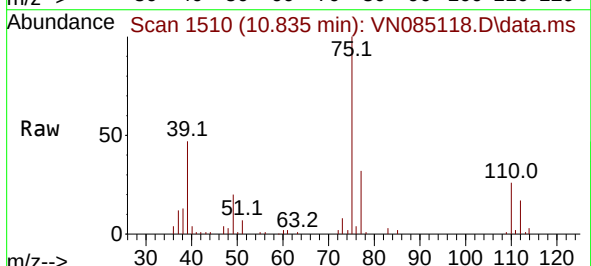
Acq: 06 Dec 2024 10:26

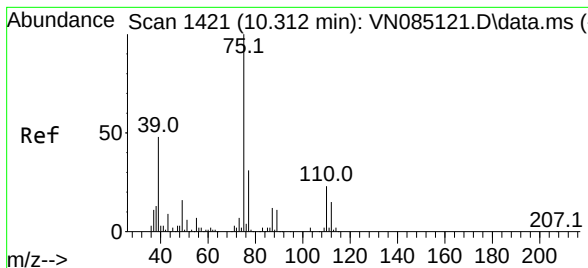
Tgt Ion: 75 Resp: 55998

Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3

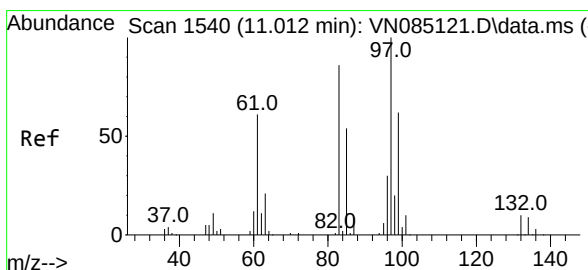
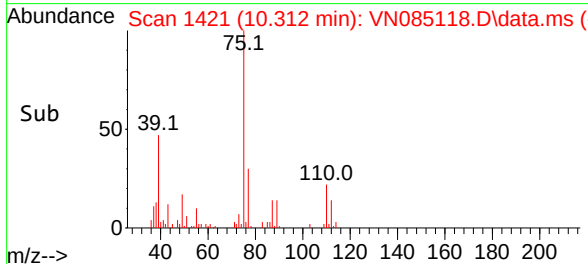
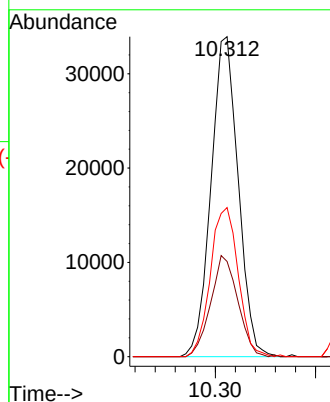
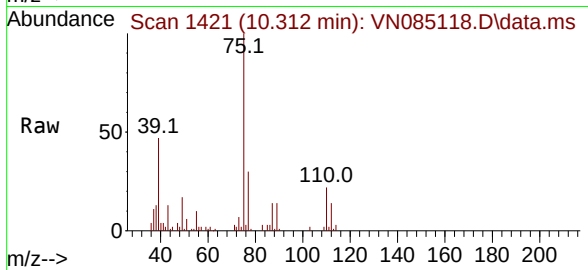




#49
cis-1,3-Dichloropropene
Concen: 19.540 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

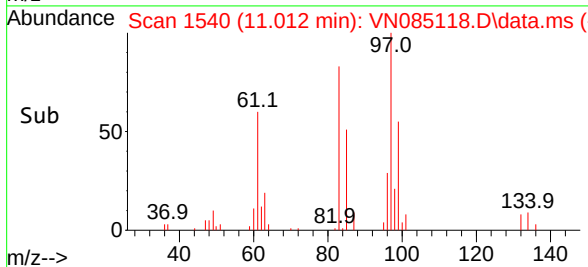
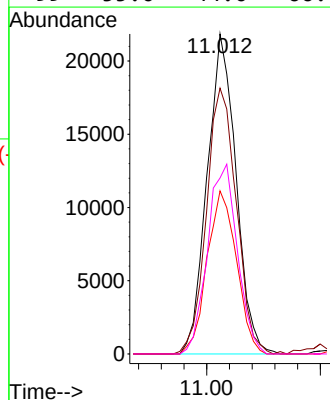
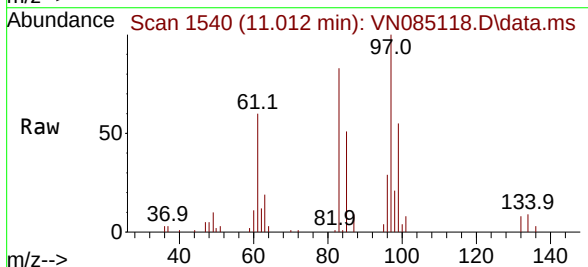
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

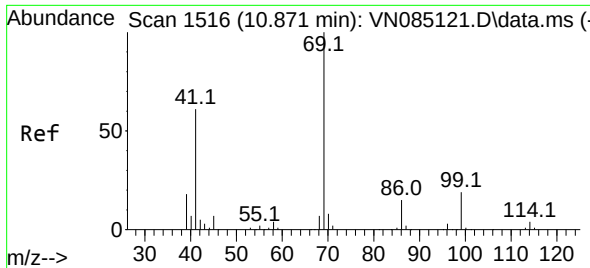
Tgt Ion:	75	Resp:	63845
Ion	Ratio	Lower	Upper
75	100		
77	29.7	23.8	35.6
39	46.6	37.3	55.9



#50
1,1,2-Trichloroethane
Concen: 19.958 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:	97	Resp:	38466
Ion	Ratio	Lower	Upper
97	100		
83	82.3	65.8	98.8
85	51.0	40.8	61.2
99	55.0	44.0	66.0

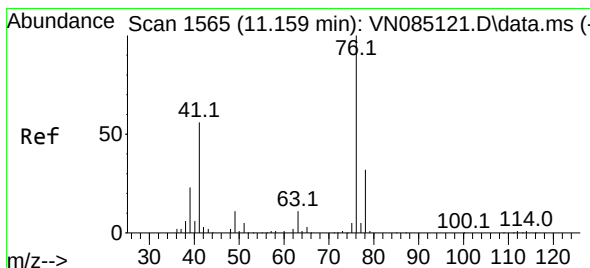
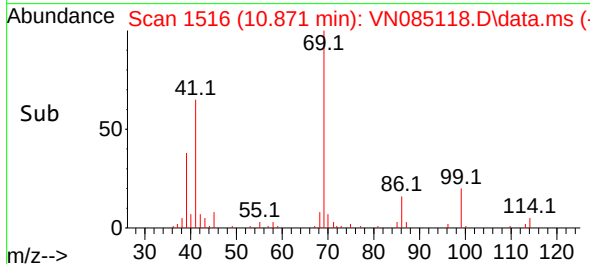
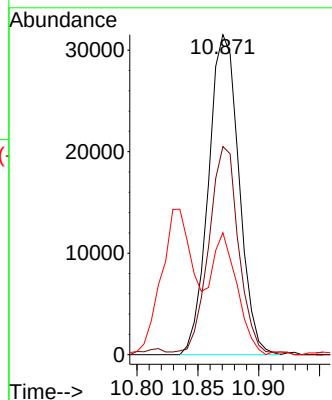
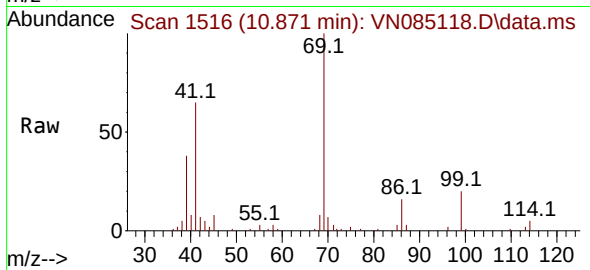




#51
Ethyl methacrylate
Concen: 18.696 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

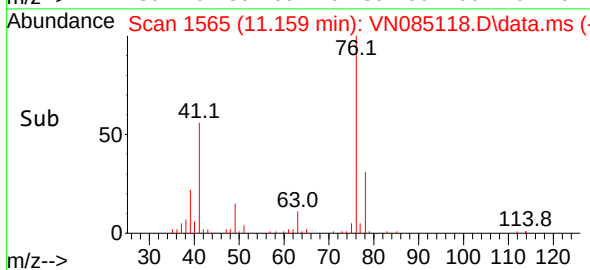
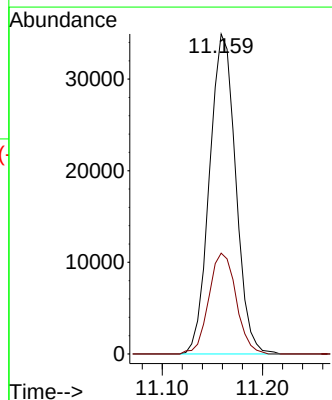
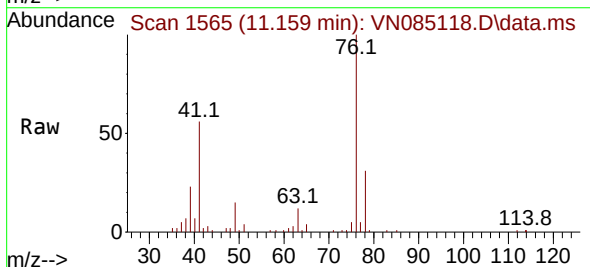
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

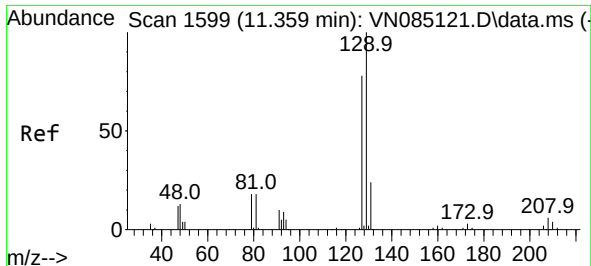
Tgt Ion:	69	Resp:	54805
Ion	Ratio	Lower	Upper
69	100		
41	64.2	32.1	96.3
39	37.6	18.8	56.4



#52
1,3-Dichloropropane
Concen: 19.634 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:	76	Resp:	63330
Ion	Ratio	Lower	Upper
76	100		
78	32.8	0.0	65.6

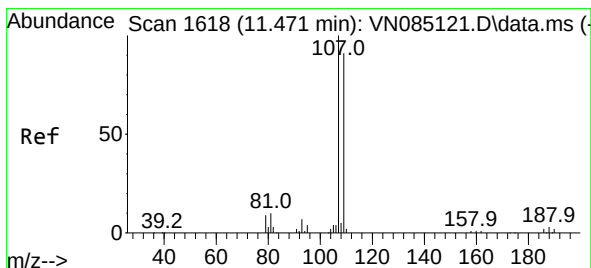
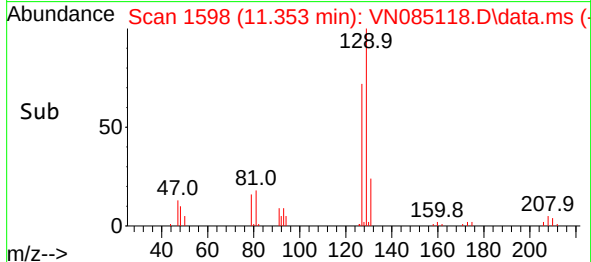
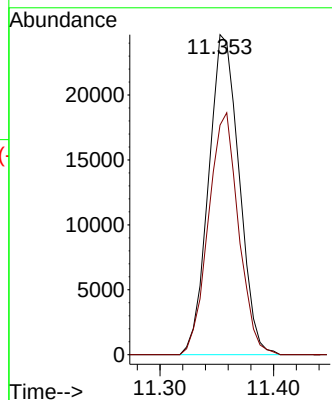
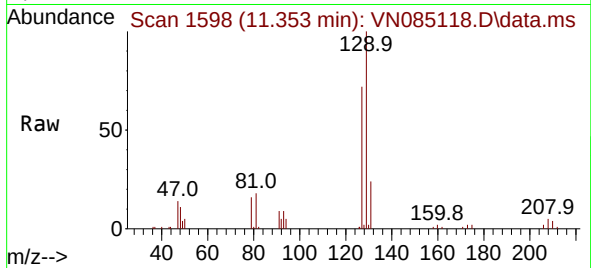




#53
Dibromochloromethane
Concen: 19.614 ug/l
RT: 11.353 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

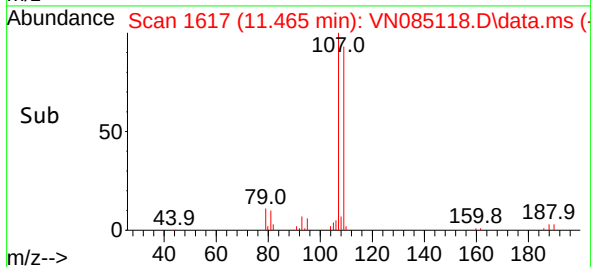
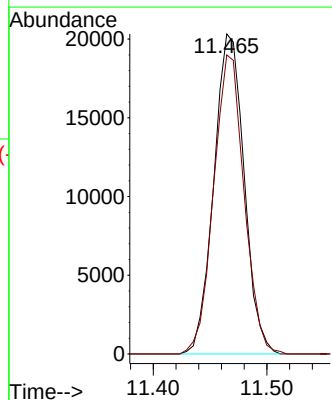
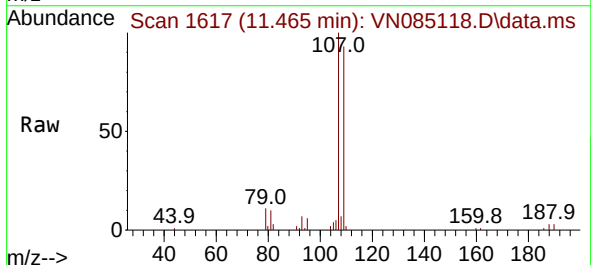
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

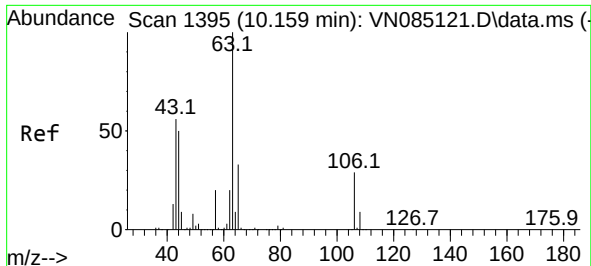
Tgt Ion:129 Resp: 46068
Ion Ratio Lower Upper
129 100
127 74.6 37.3 111.9



#54
1,2-Dibromoethane
Concen: 19.376 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:107 Resp: 37625
Ion Ratio Lower Upper
107 100
109 94.0 75.2 112.8

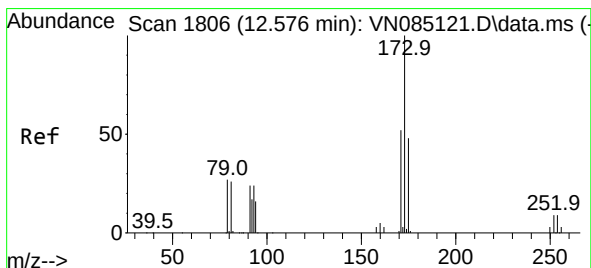
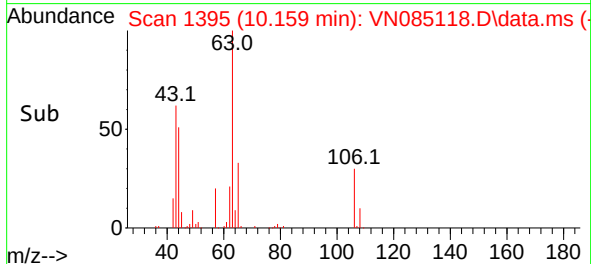
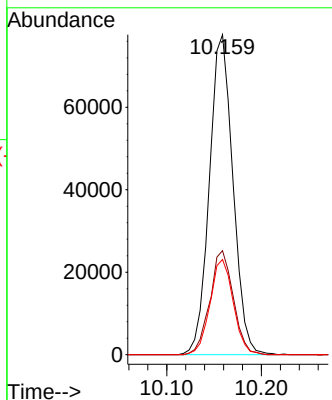
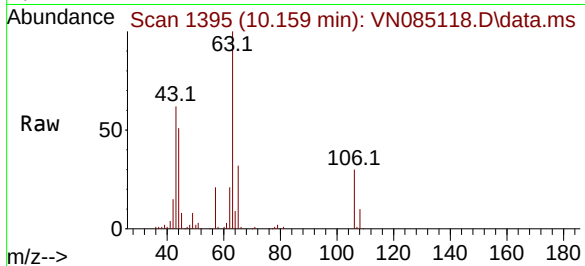




#55
2-Chloroethyl vinyl ether
Concen: 98.387 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

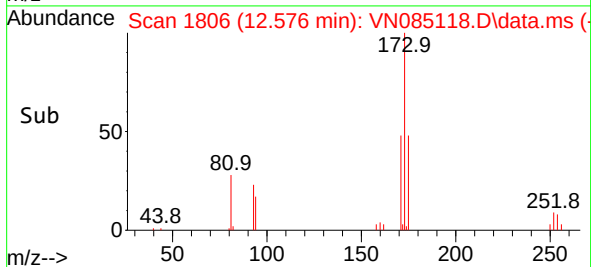
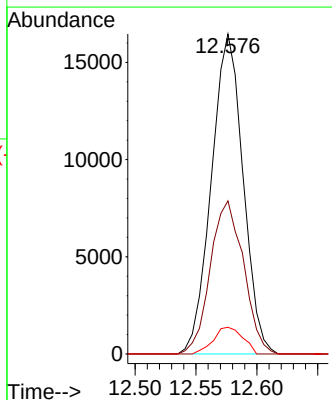
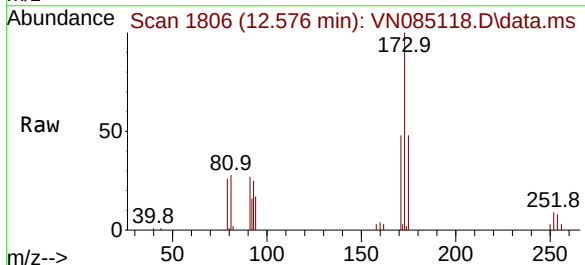
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

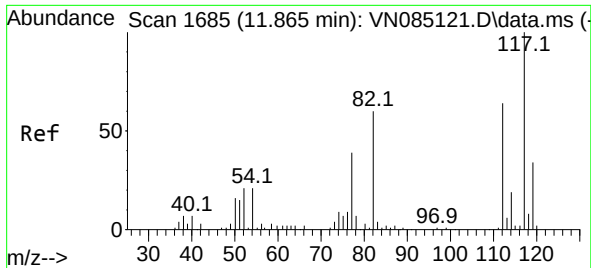
Tgt Ion: 63 Resp: 133977
Ion Ratio Lower Upper
63 100
65 32.4 25.9 38.9
106 29.4 23.5 35.3



#56
Bromoform
Concen: 18.911 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 173 Resp: 29780
Ion Ratio Lower Upper
173 100
175 50.2 40.2 60.2
254 7.8 6.2 9.4

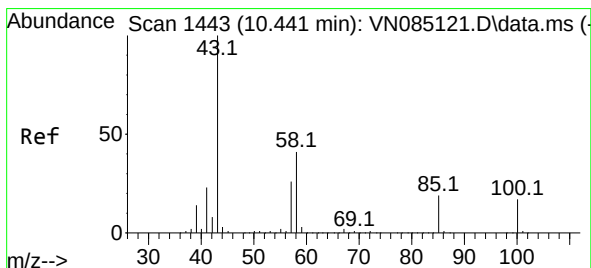
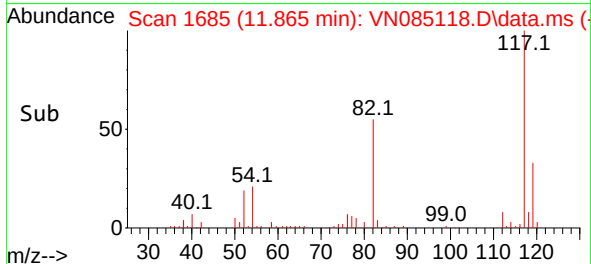
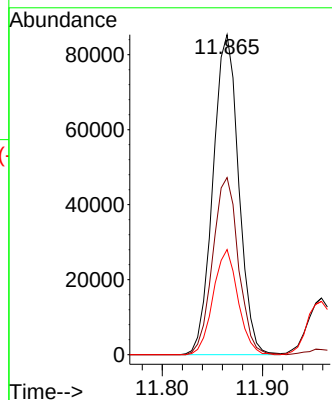
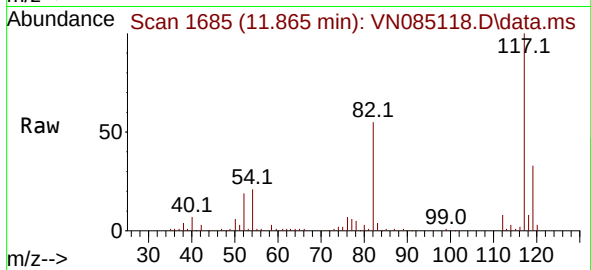




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

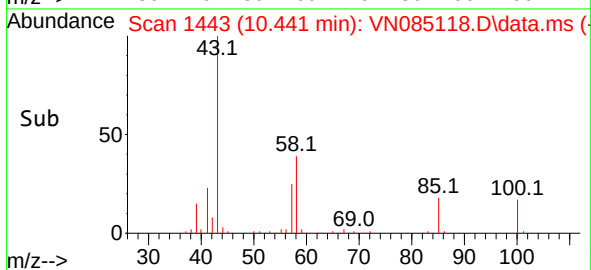
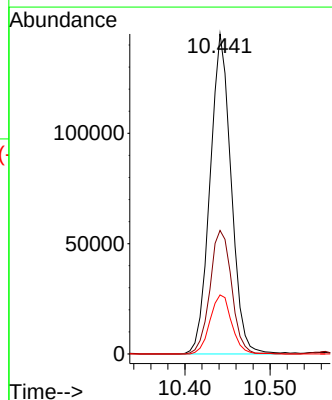
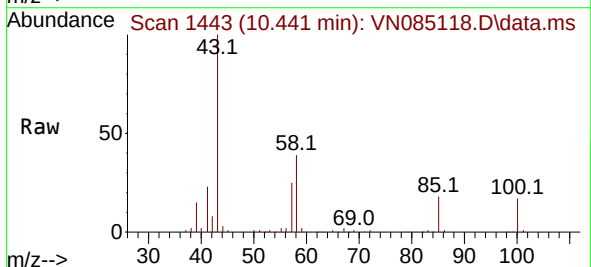
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

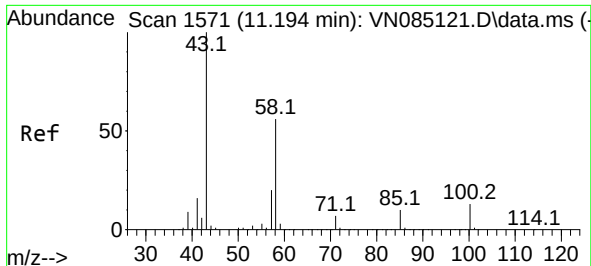
Tgt Ion:117 Resp: 151793
Ion Ratio Lower Upper
117 100
82 55.3 44.2 66.4
119 31.8 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 100.896 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 43 Resp: 249951
Ion Ratio Lower Upper
43 100
58 39.5 31.6 47.4
85 18.8 15.0 22.6

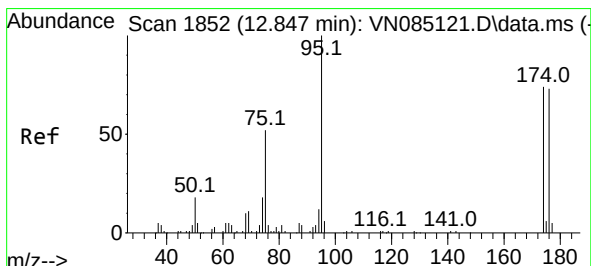
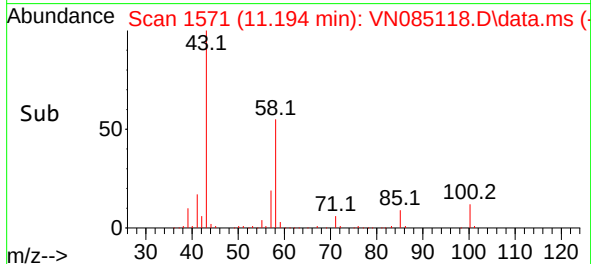
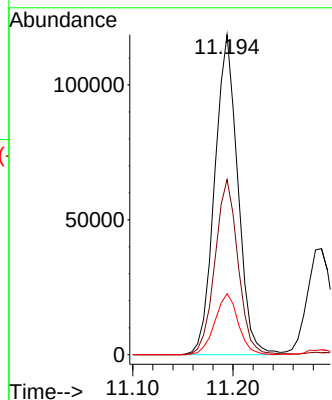
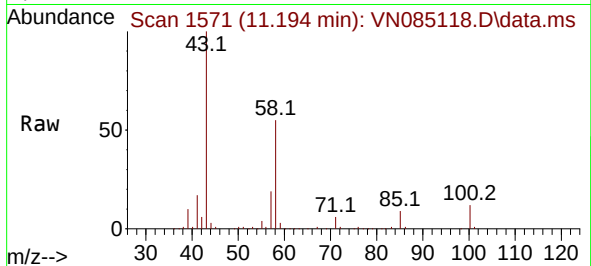




#59
2-Hexanone
Concen: 101.223 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

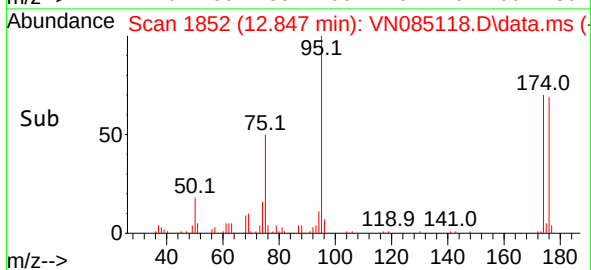
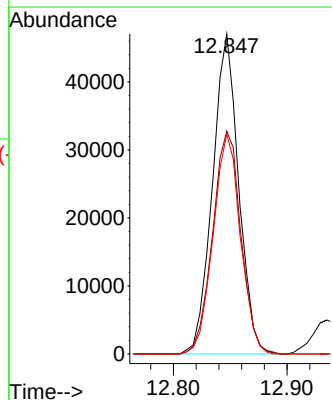
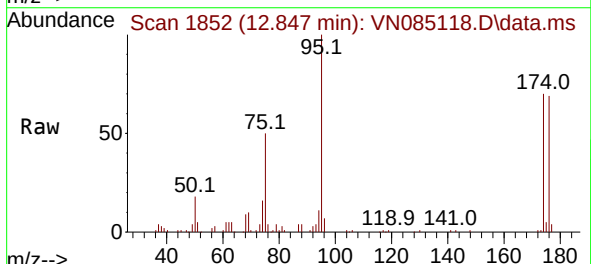
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

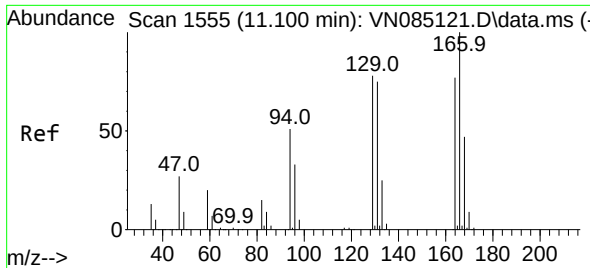
Tgt Ion: 43 Resp: 190003
Ion Ratio Lower Upper
43 100
58 54.5 43.6 65.4
57 19.2 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 29.902 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 95 Resp: 75101
Ion Ratio Lower Upper
95 100
174 75.4 60.3 90.5
176 71.7 57.4 86.0

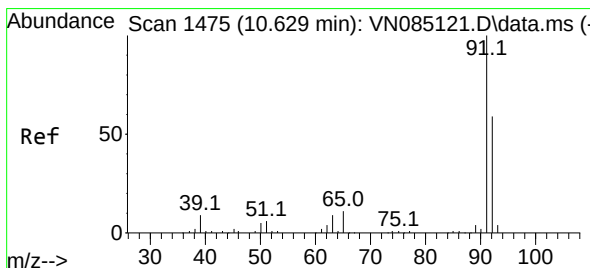
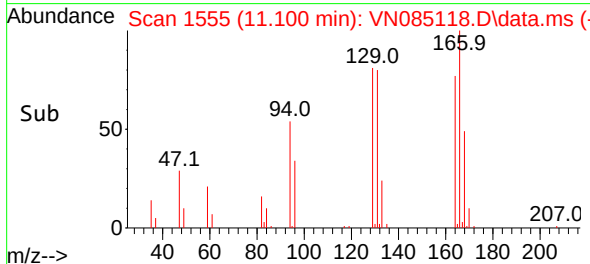
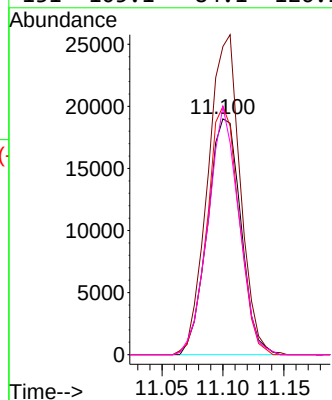
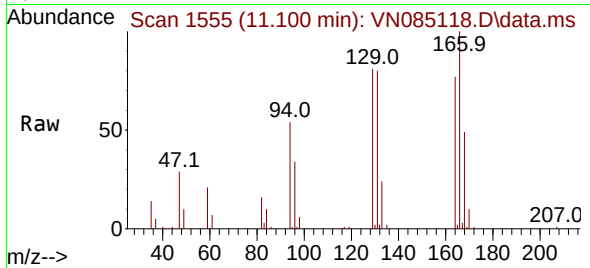




#61
Tetrachloroethene
Concen: 19.684 ug/l
RT: 11.100 min Scan# 1155
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

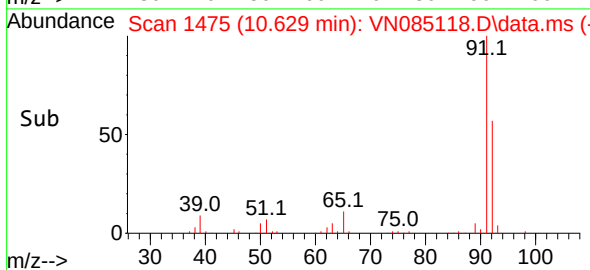
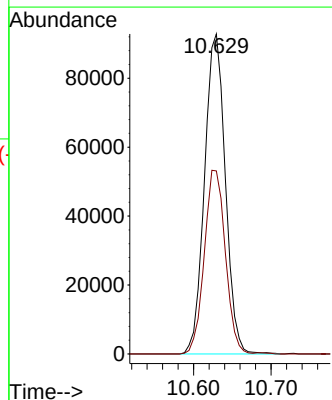
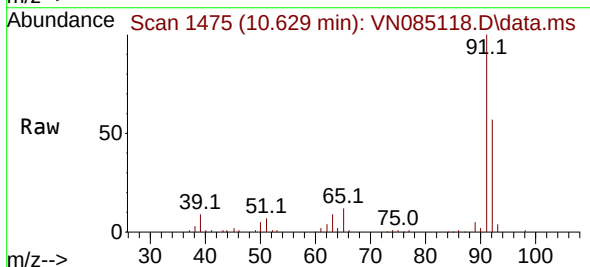
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

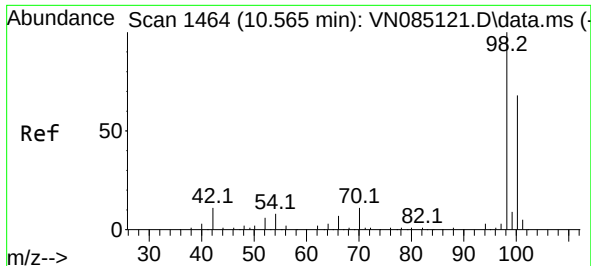
Tgt Ion:164	Resp:	36183
Ion	Ratio	Lower Upper
164	100	
166	129.8	103.8 155.8
129	105.3	84.2 126.4
131	105.1	84.1 126.1



#62
Toluene
Concen: 19.581 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 91	Resp:	173344
Ion	Ratio	Lower Upper
91	100	
92	58.1	46.5 69.7

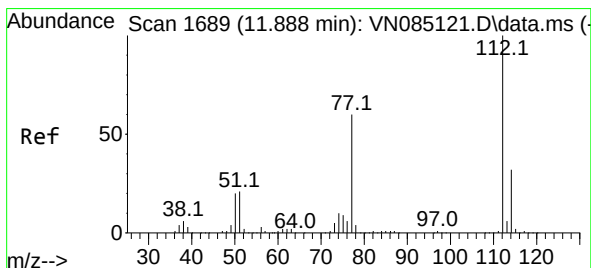
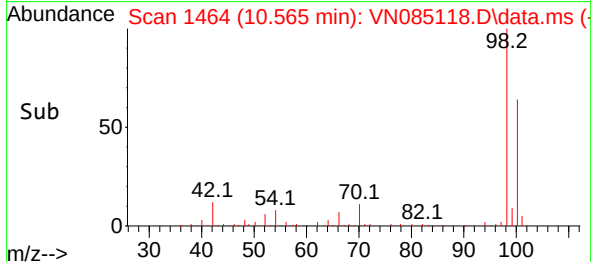
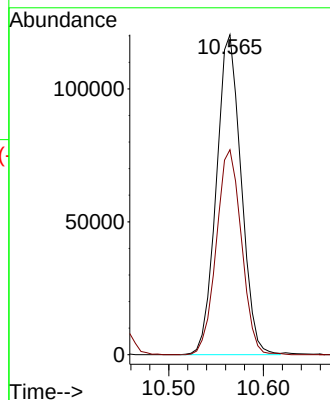
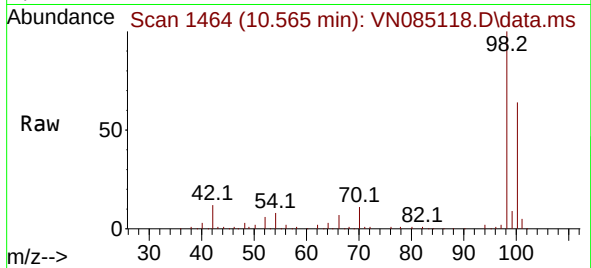




#63
Toluene-d8
Concen: 30.755 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

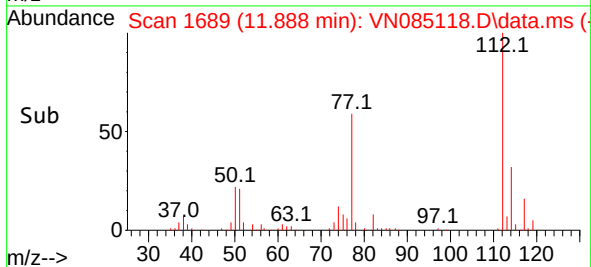
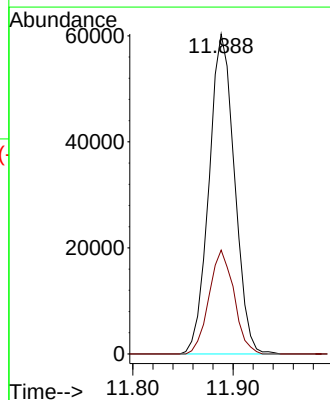
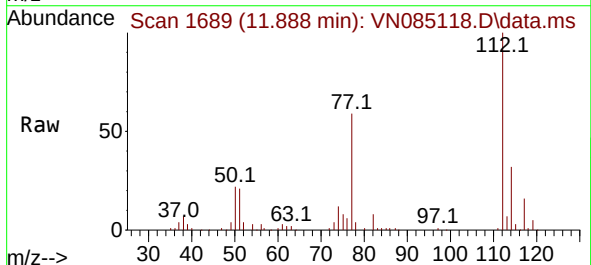
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

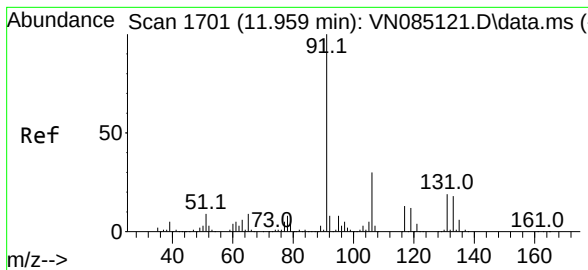
Tgt Ion: 98 Resp: 218988
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0



#64
Chlorobenzene
Concen: 19.550 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 112 Resp: 106855
Ion Ratio Lower Upper
112 100
114 32.5 26.0 39.0

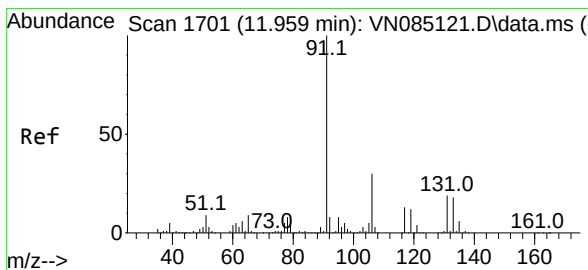
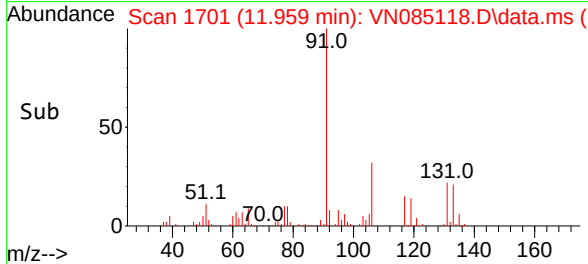
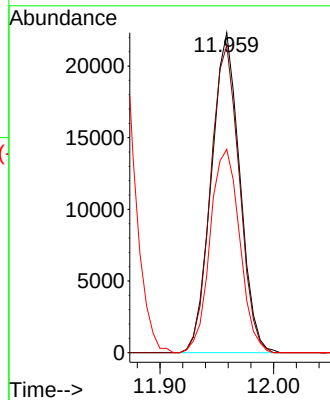
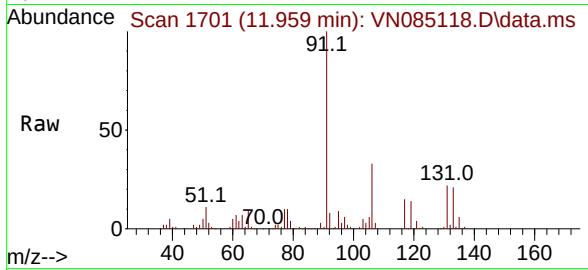




#65
1,1,1,2-Tetrachloroethane
Concen: 19.032 ug/l
RT: 11.959 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

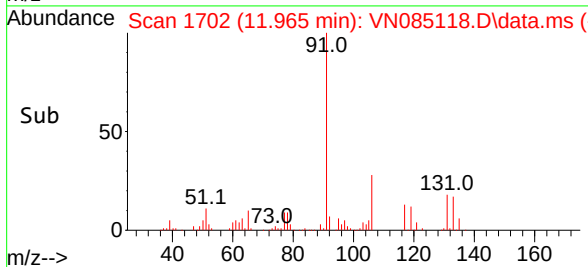
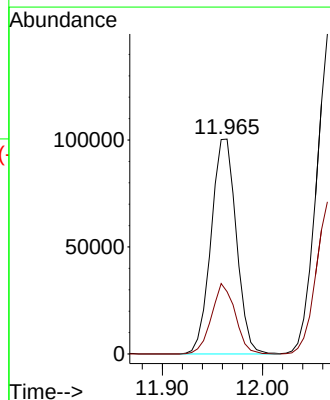
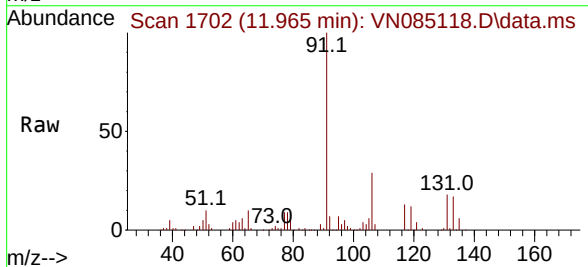
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

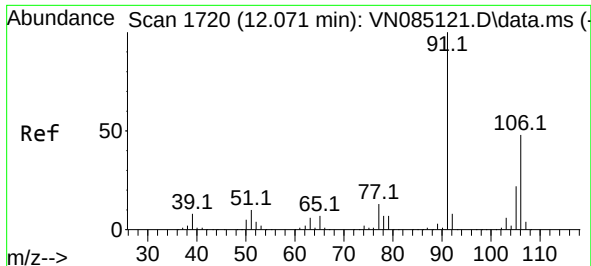
Tgt Ion:131 Resp: 38831
Ion Ratio Lower Upper
131 100
133 97.0 0.0 194.0
119 65.9 0.0 131.8



#66
Ethyl Benzene
Concen: 18.737 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 91 Resp: 176006
Ion Ratio Lower Upper
91 100
106 28.9 23.1 34.7

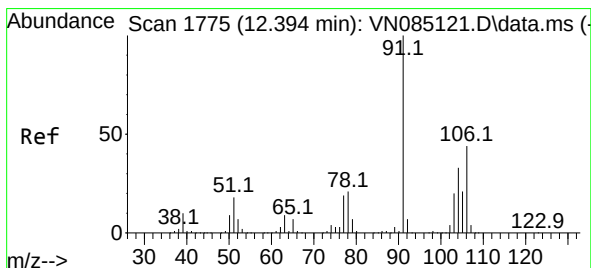
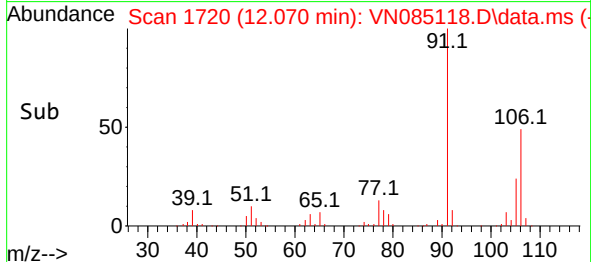
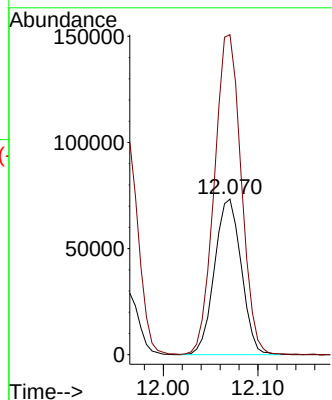
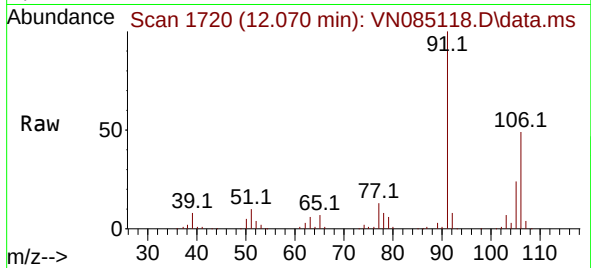




#67
m/p-Xylenes
Concen: 39.929 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

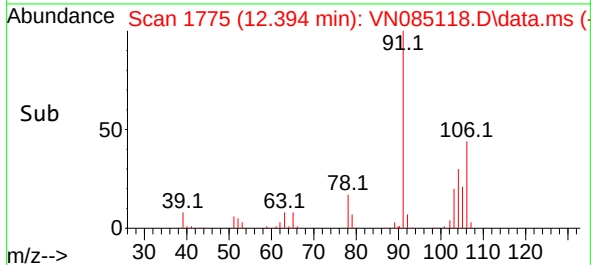
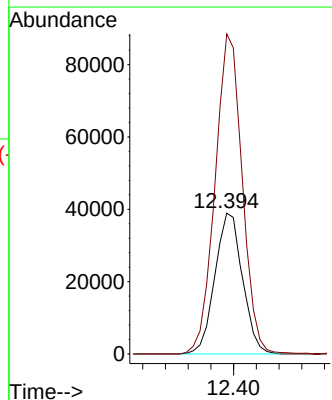
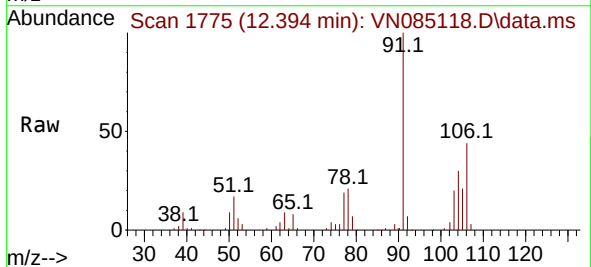
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

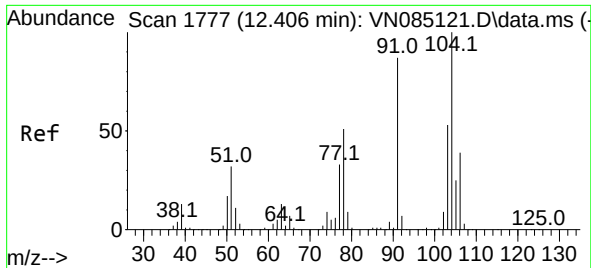
Tgt Ion:106 Resp: 144263
Ion Ratio Lower Upper
106 100
91 206.2 165.0 247.4



#68
o-Xylene
Concen: 19.324 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:106 Resp: 65568
Ion Ratio Lower Upper
106 100
91 224.3 112.1 336.4

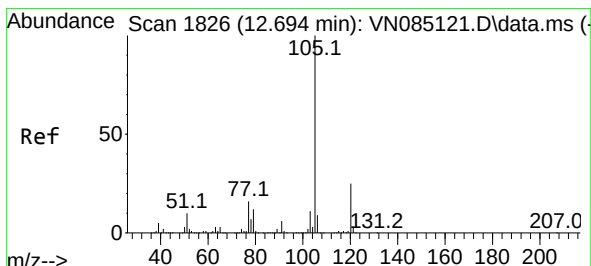
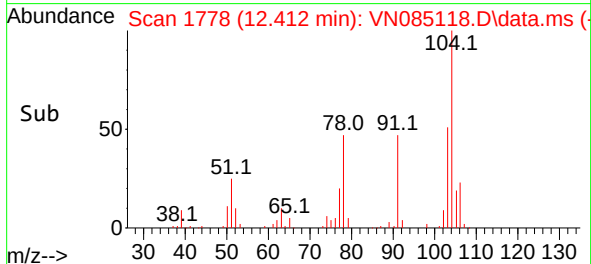
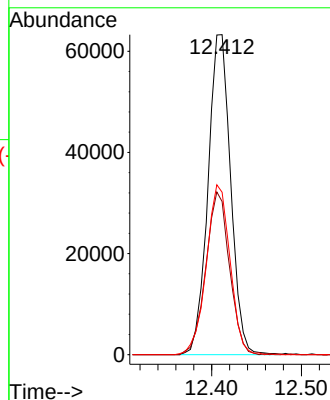
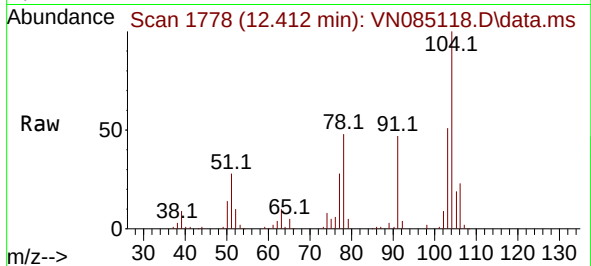




#69
Styrene
Concen: 19.289 ug/l
RT: 12.412 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

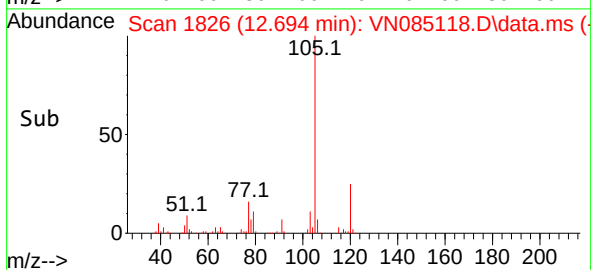
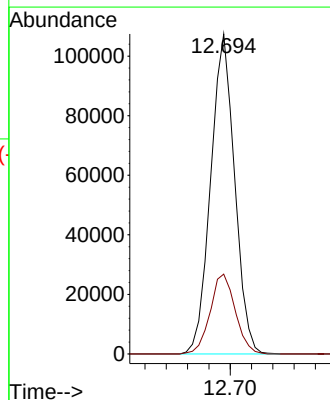
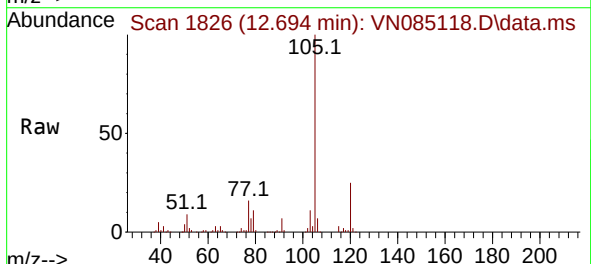
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

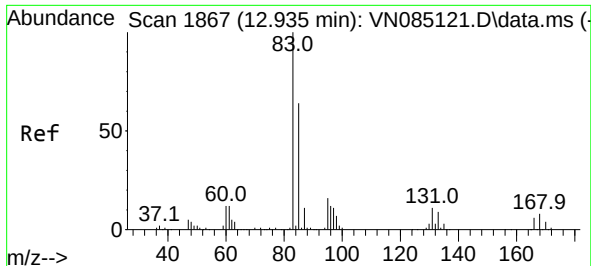
Tgt Ion:104 Resp: 111060
Ion Ratio Lower Upper
104 100
78 52.9 42.3 63.5
103 55.5 44.4 66.6



#70
Isopropylbenzene
Concen: 19.153 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:105 Resp: 167624
Ion Ratio Lower Upper
105 100
120 26.1 18.3 33.9

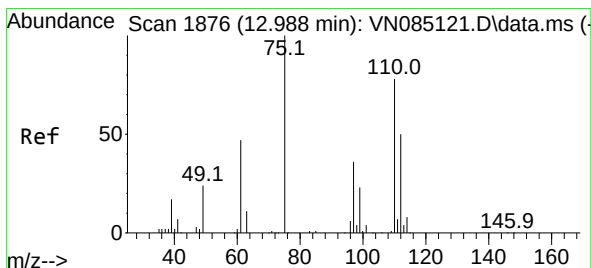
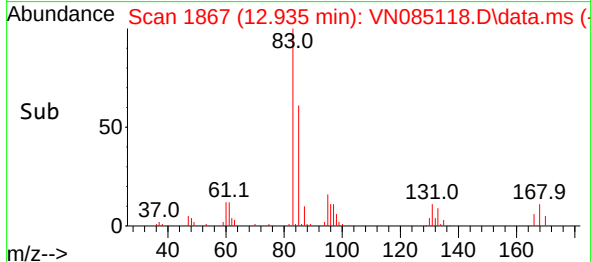
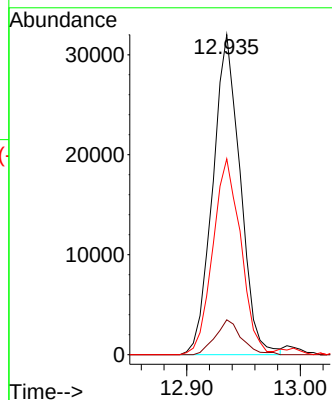
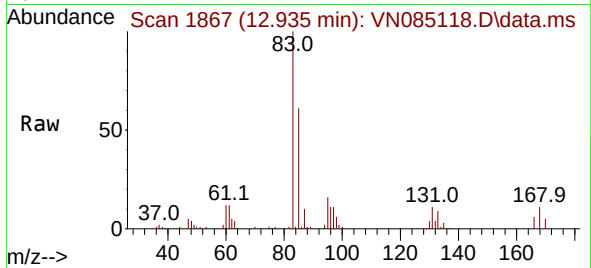




#71
1,1,2,2-Tetrachloroethane
Concen: 20.208 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

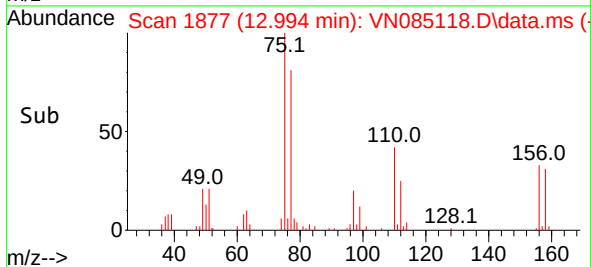
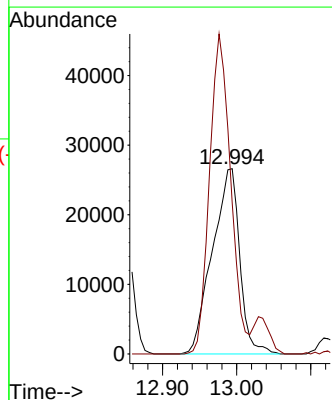
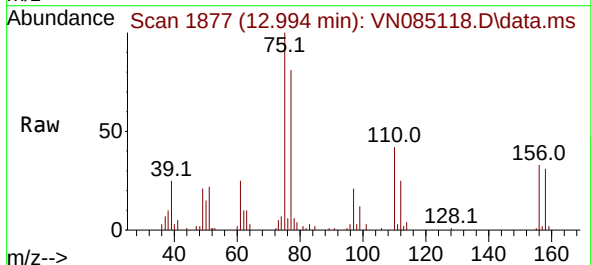
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

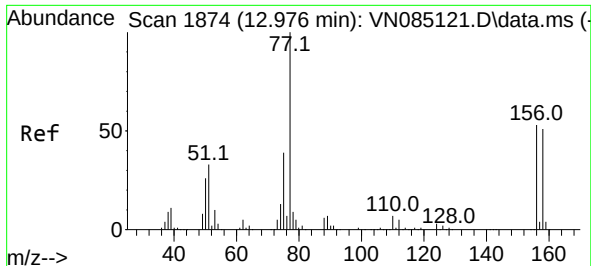
Tgt Ion: 83 Resp: 53829
Ion Ratio Lower Upper
83 100
131 10.2 5.1 15.3
85 62.3 31.1 93.5



#72
1,2,3-Trichloropropane
Concen: 25.935 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 75 Resp: 68245
Ion Ratio Lower Upper
75 100
77 134.1 0.0 339.0

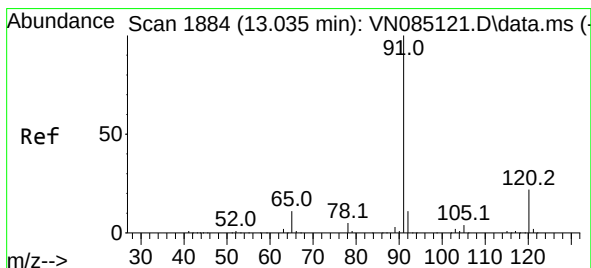
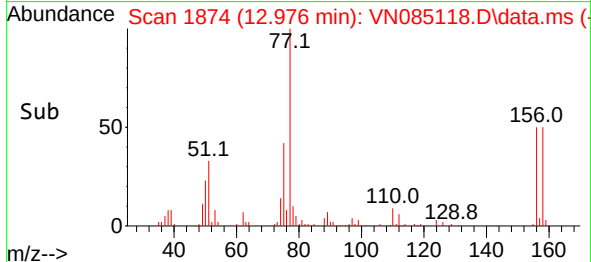
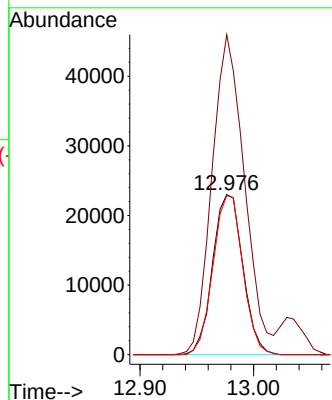
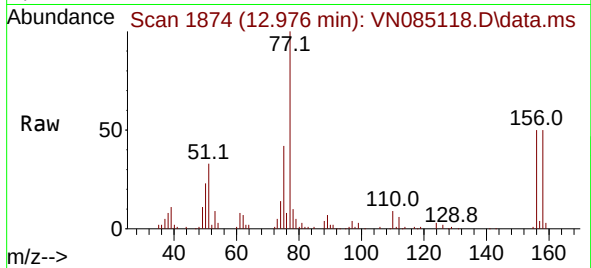




#73
Bromobenzene
Concen: 19.393 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

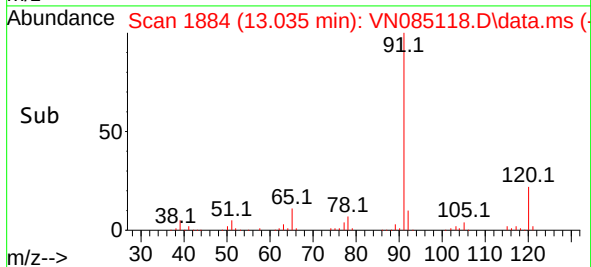
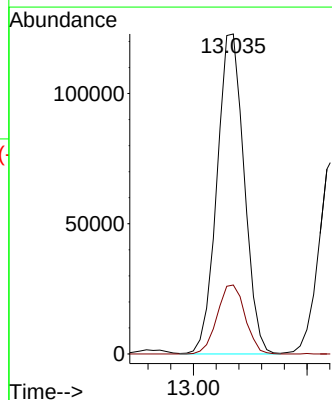
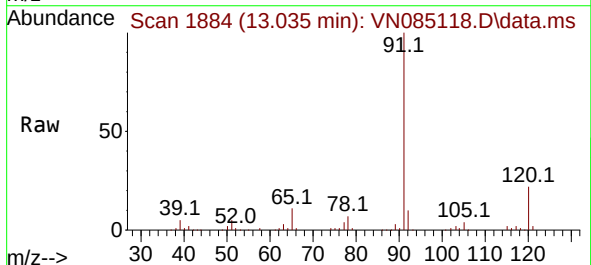
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

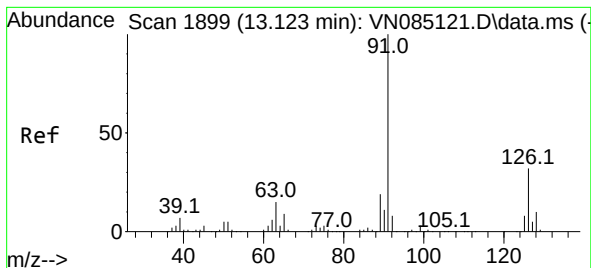
Tgt Ion:156 Resp: 42513
Ion Ratio Lower Upper
156 100
77 215.2 0.0 430.4
158 97.6 0.0 195.2



#74
n-propylbenzene
Concen: 19.431 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 91 Resp: 204446
Ion Ratio Lower Upper
91 100
120 22.0 0.0 44.0





#75

2-Chlorotoluene

Concen: 19.766 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

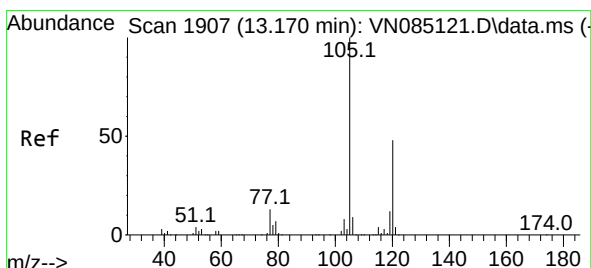
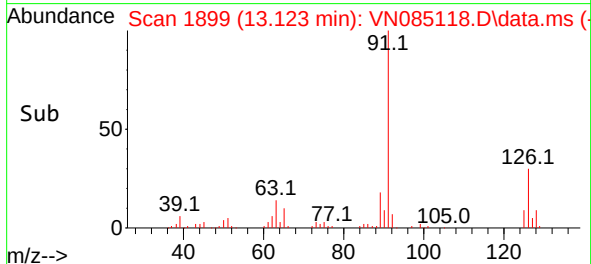
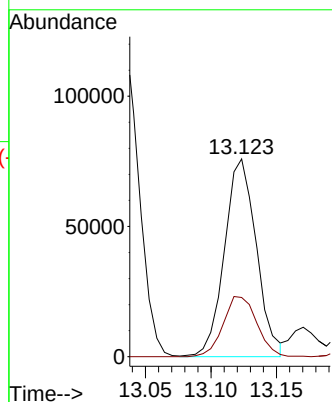
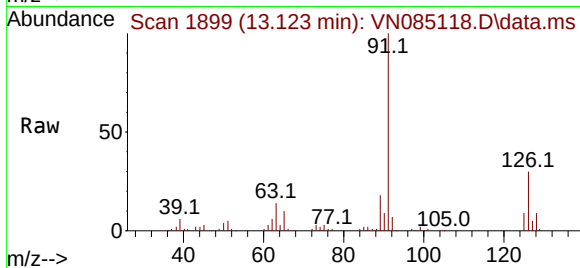
VSTDICCC020

Tgt Ion: 91 Resp: 128581

Ion Ratio Lower Upper

91 100

126 32.1 0.0 64.2



#76

1,3,5-Trimethylbenzene

Concen: 19.449 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085118.D

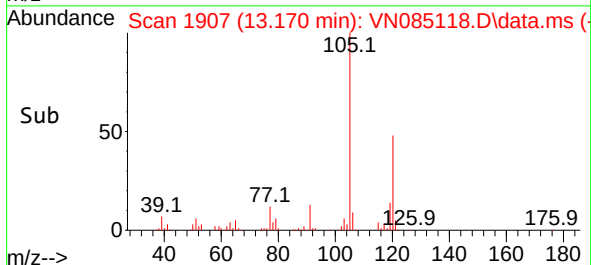
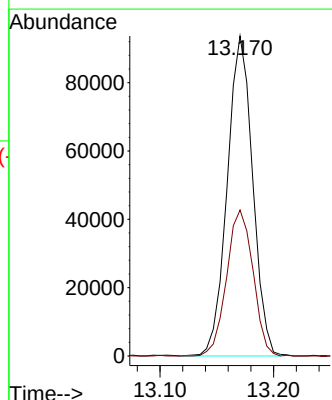
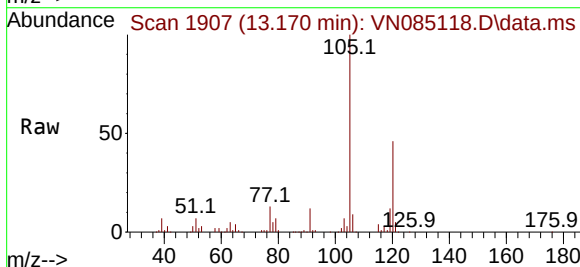
Acq: 06 Dec 2024 10:26

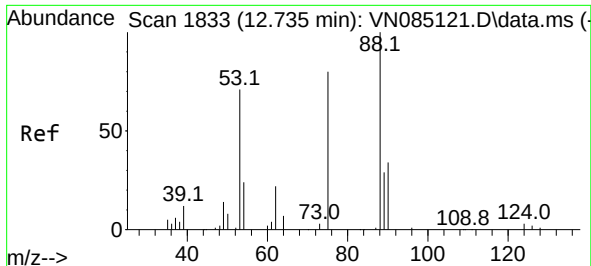
Tgt Ion:105 Resp: 145824

Ion Ratio Lower Upper

105 100

120 47.2 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 18.901 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

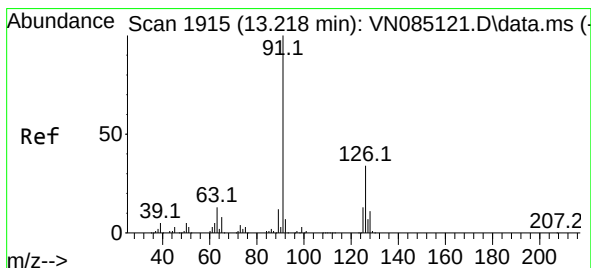
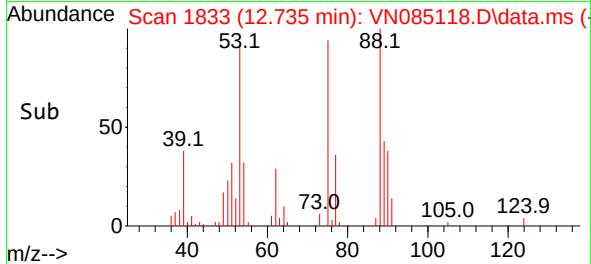
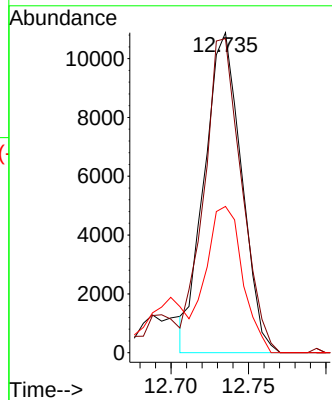
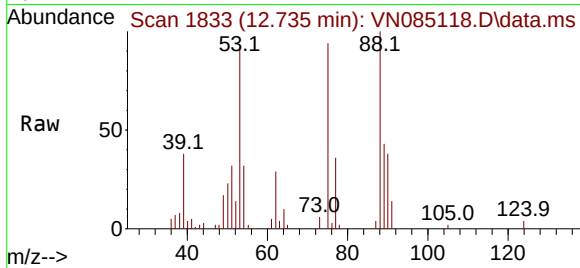
Tgt Ion: 75 Resp: 18073

Ion Ratio Lower Upper

75 100

53 98.2 49.1 147.3

89 45.7 22.9 68.5



#78

4-Chlorotoluene

Concen: 19.337 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN085118.D

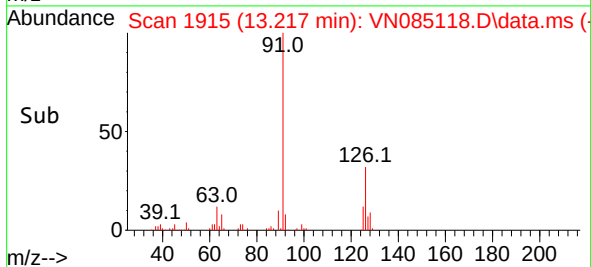
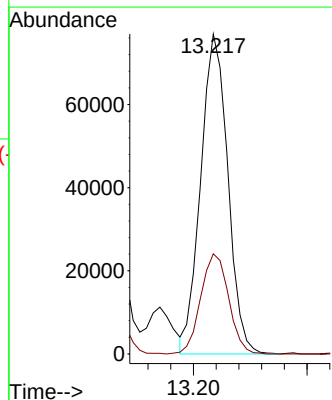
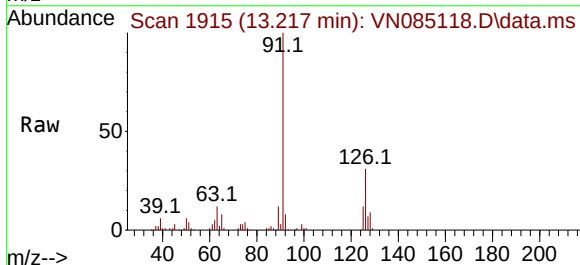
Acq: 06 Dec 2024 10:26

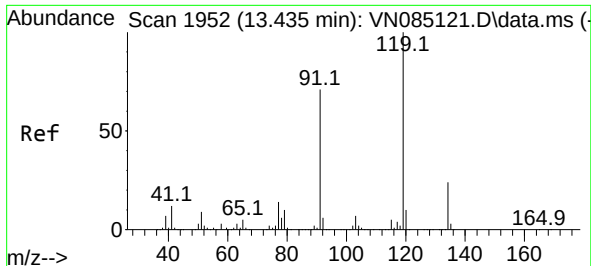
Tgt Ion: 91 Resp: 127680

Ion Ratio Lower Upper

91 100

126 32.2 0.0 64.4

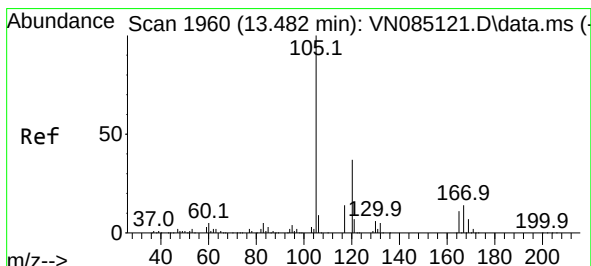
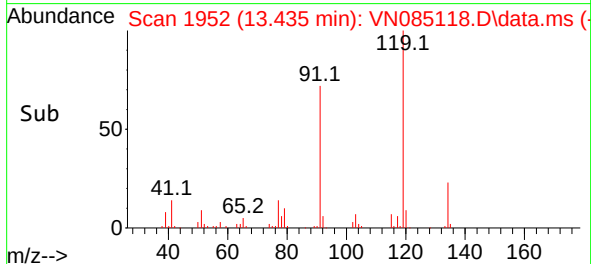
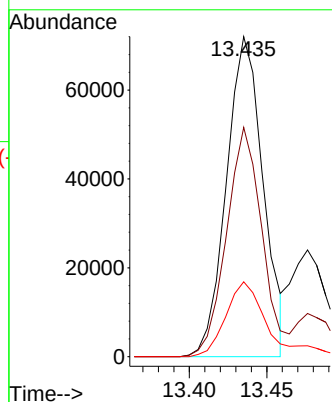
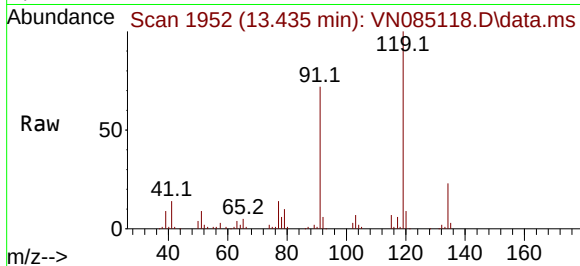




#79
tert-butylbenzene
Concen: 19.283 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

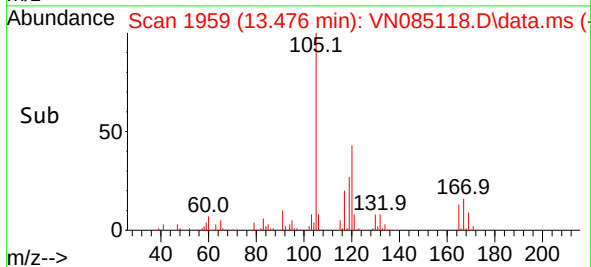
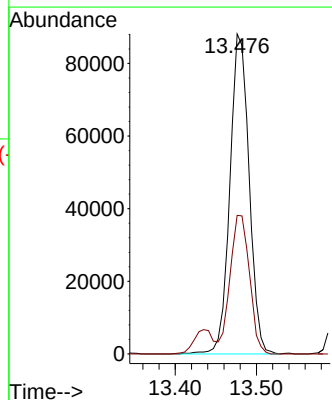
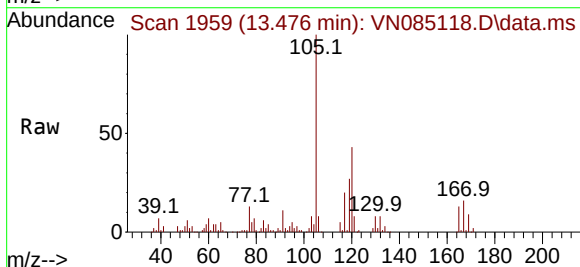
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

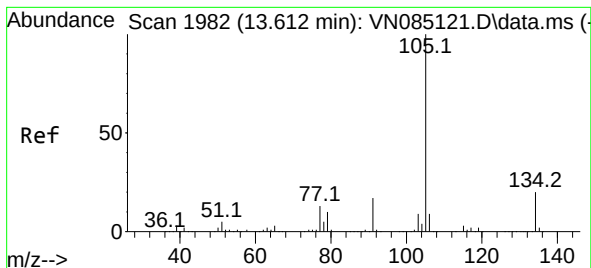
Tgt Ion:119 Resp: 118752
Ion Ratio Lower Upper
119 100
91 69.6 0.0 139.2
134 24.0 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 19.521 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:105 Resp: 144579
Ion Ratio Lower Upper
105 100
120 43.7 0.0 87.4





#81

sec-Butylbenzene

Concen: 19.304 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

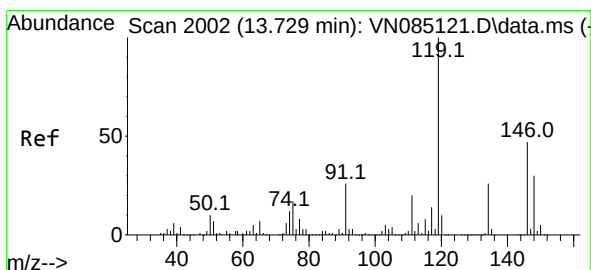
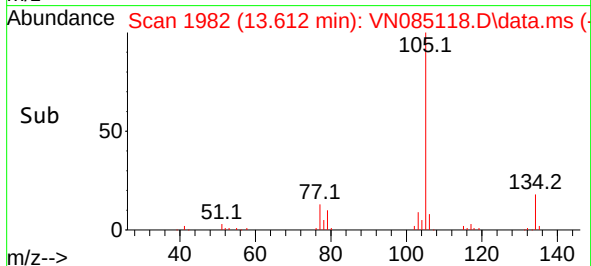
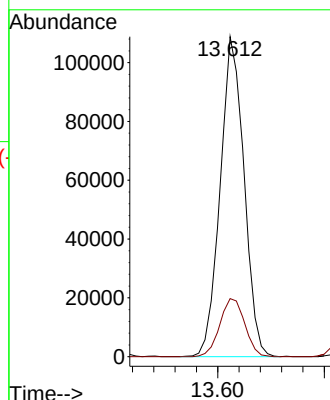
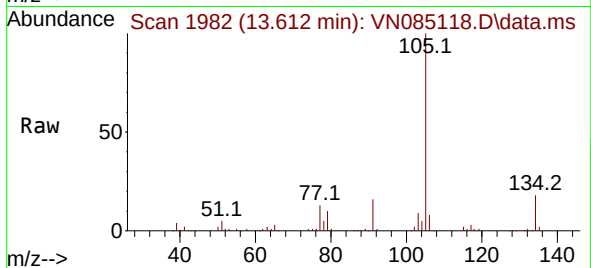
VSTDICCC020

Tgt Ion:105 Resp: 168895

Ion Ratio Lower Upper

105 100

134 19.0 0.0 38.0



#82

p-Isopropyltoluene

Concen: 19.140 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

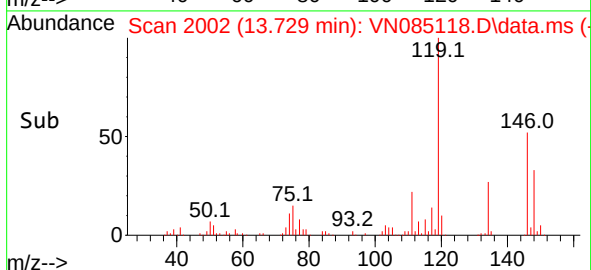
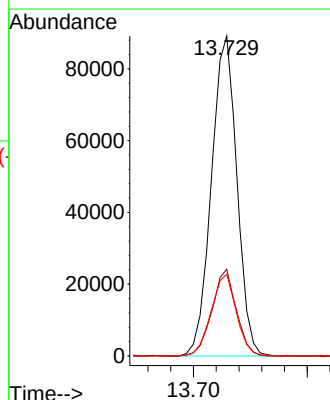
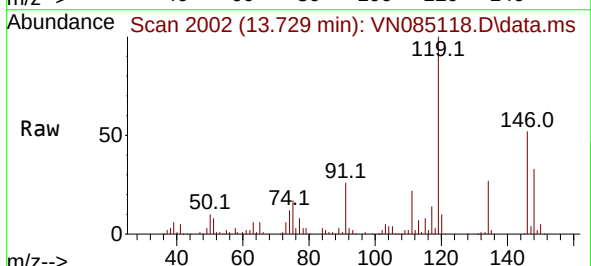
Tgt Ion:119 Resp: 138833

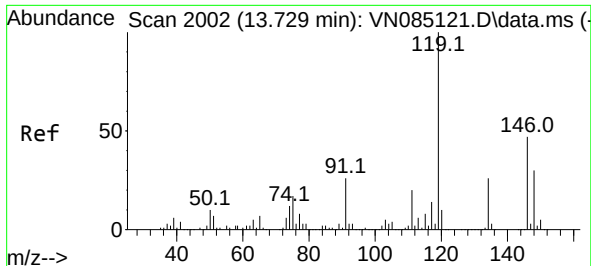
Ion Ratio Lower Upper

119 100

134 25.8 0.0 51.6

91 25.2 0.0 50.4

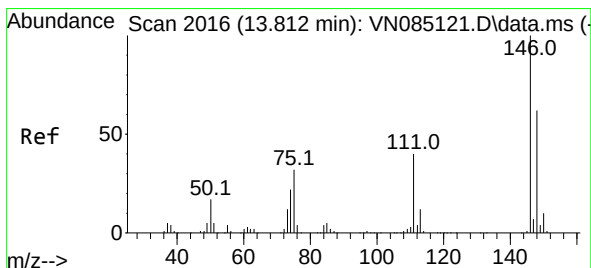
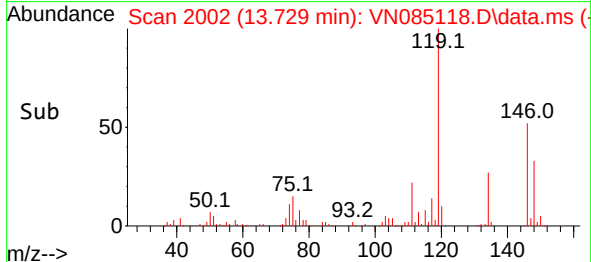
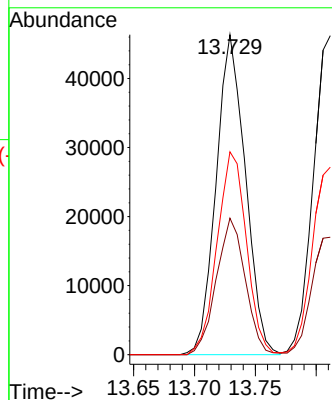
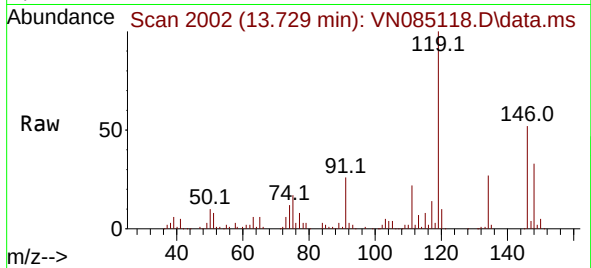




#83
1,3-Dichlorobenzene
Concen: 19.261 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

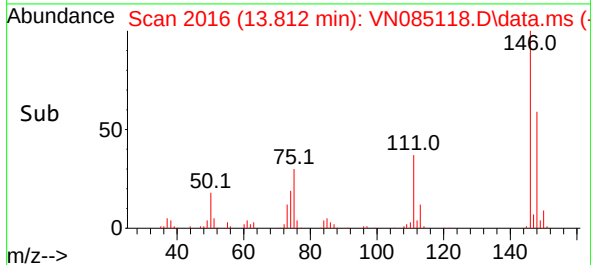
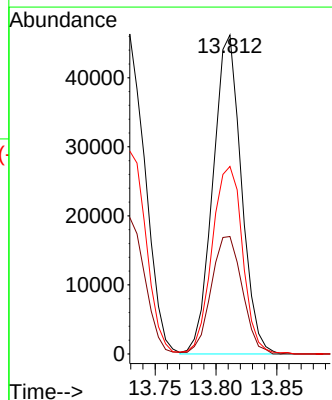
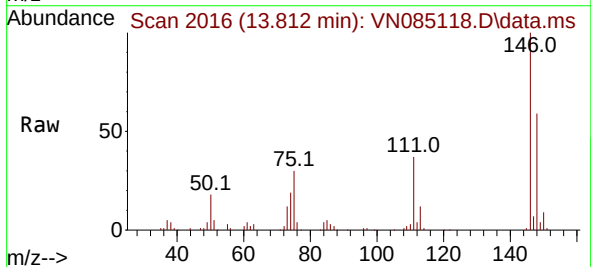
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

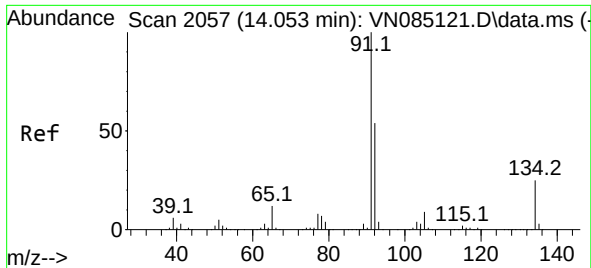
Tgt Ion:146 Resp: 77464
Ion Ratio Lower Upper
146 100
111 42.2 21.1 63.3
148 63.5 31.8 95.3



#84
1,4-Dichlorobenzene
Concen: 19.156 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:146 Resp: 75083
Ion Ratio Lower Upper
146 100
111 40.2 20.1 60.3
148 63.1 31.6 94.7

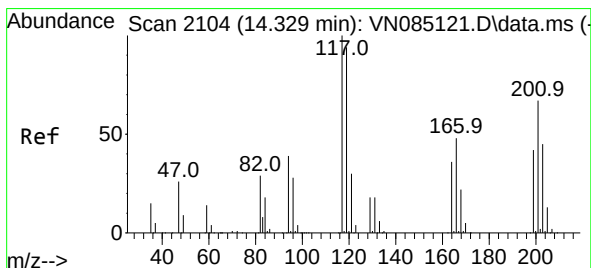
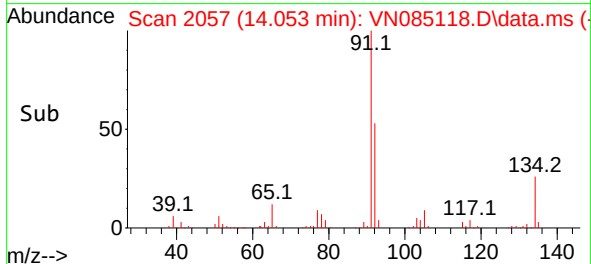
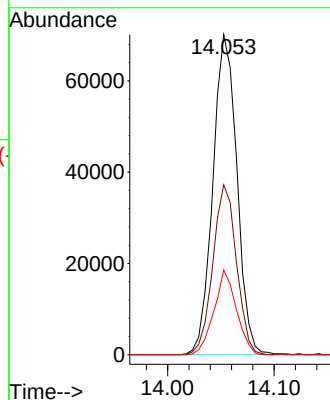
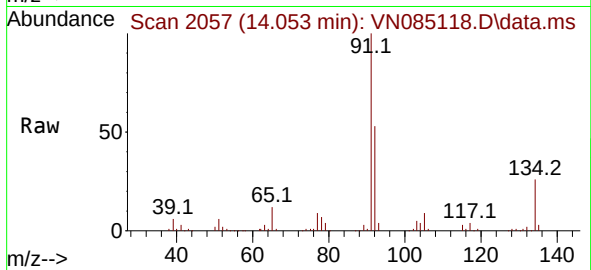




#85
n-Butylbenzene
Concen: 18.049 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

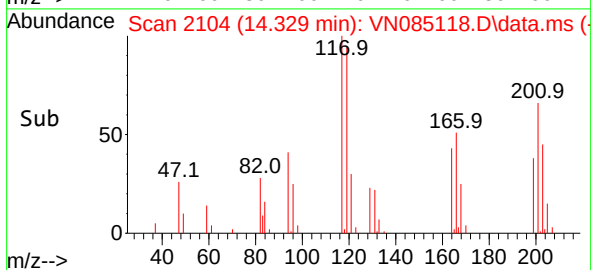
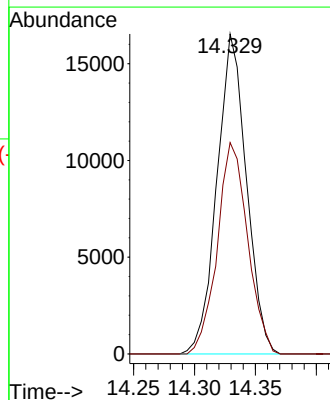
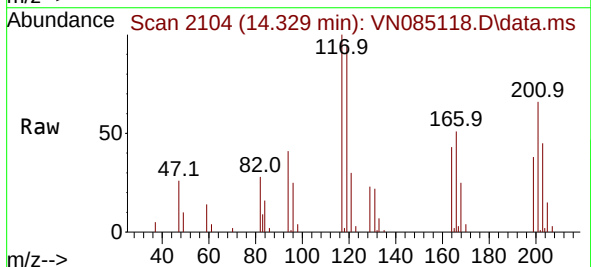
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

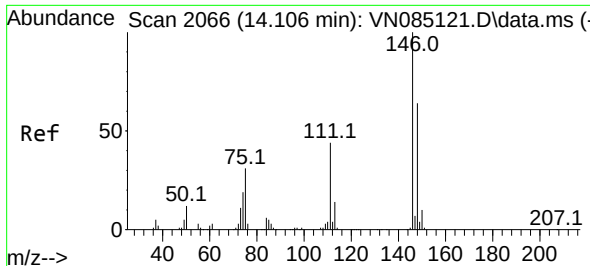
Tgt Ion: 91 Resp: 109819
Ion Ratio Lower Upper
91 100
92 52.0 0.0 104.0
134 24.6 0.0 49.2



#86
Hexachloroethane
Concen: 19.248 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion: 117 Resp: 27795
Ion Ratio Lower Upper
117 100
201 68.2 34.1 102.3





#87

1,2-Dichlorobenzene

Concen: 19.228 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

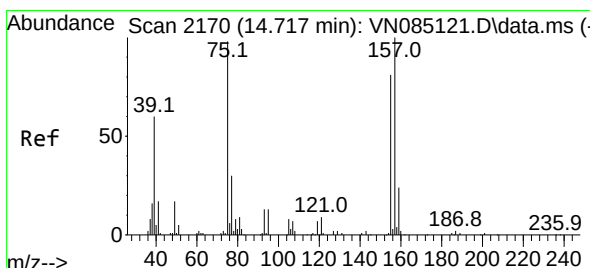
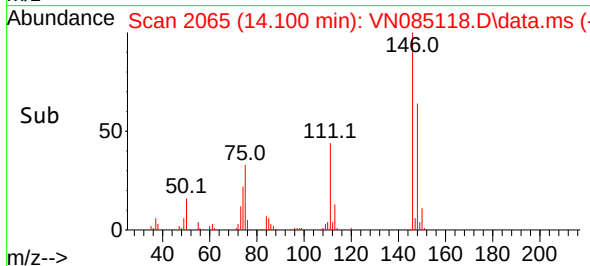
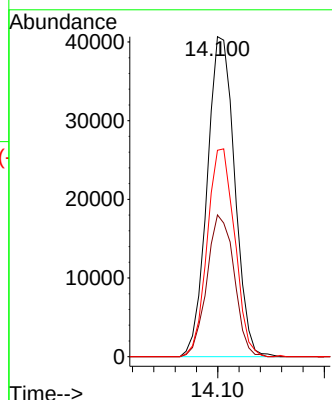
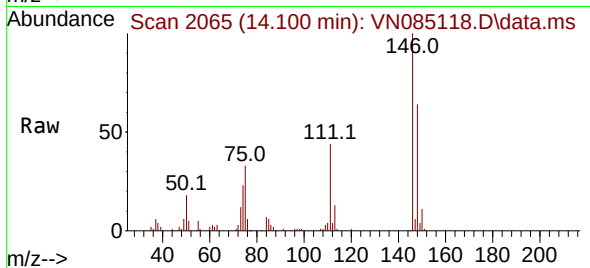
Tgt Ion:146 Resp: 72993

Ion Ratio Lower Upper

146 100

111 43.8 21.9 65.7

148 64.7 32.4 97.0



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.634 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

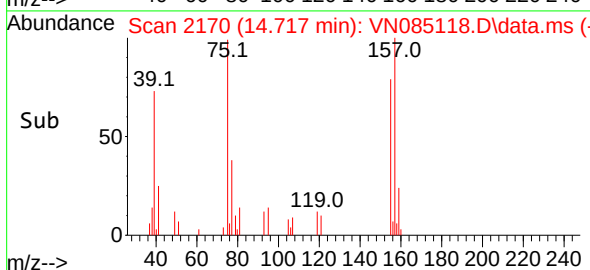
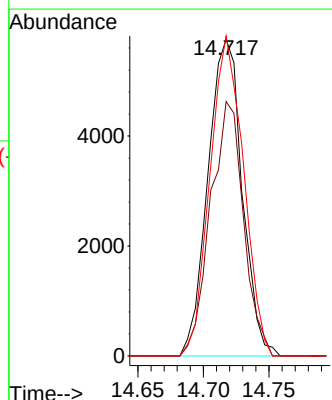
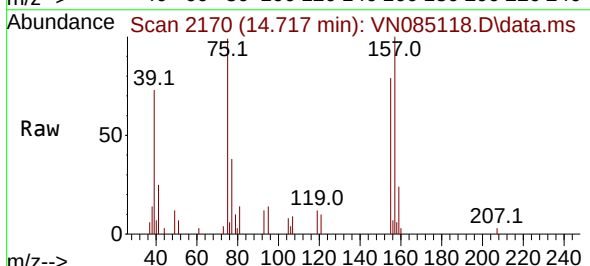
Tgt Ion: 75 Resp: 10448

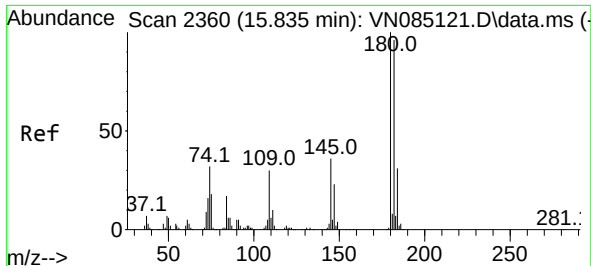
Ion Ratio Lower Upper

75 100

155 77.6 62.1 93.1

157 99.1 79.3 118.9

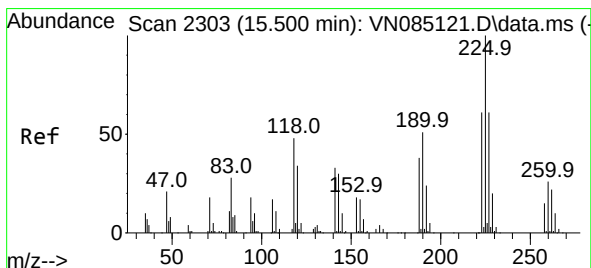
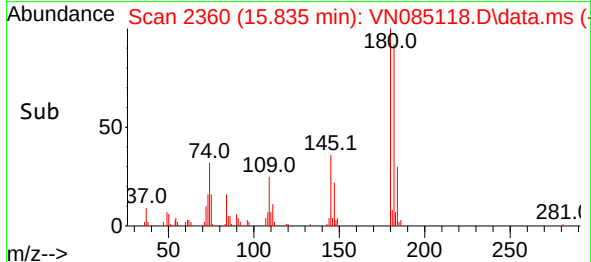
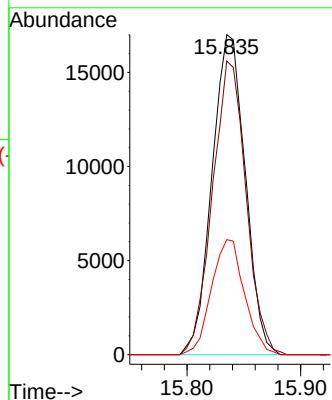
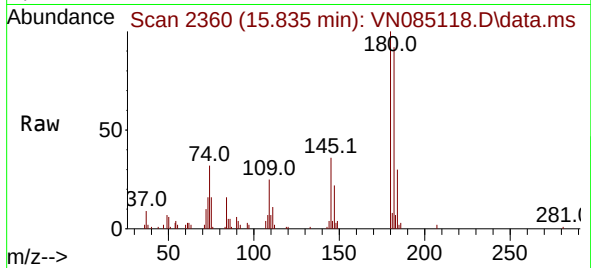




#89
1,2,4-Trichlorobenzene
Concen: 18.598 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

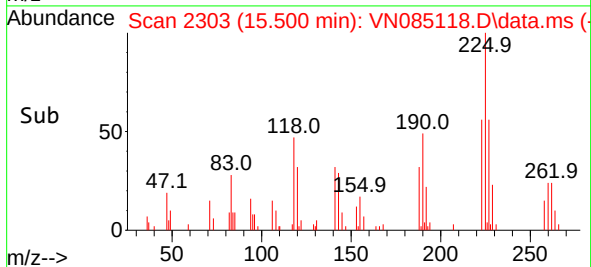
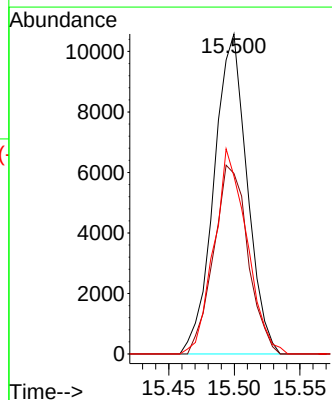
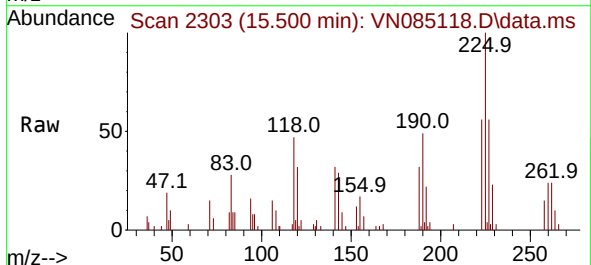
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

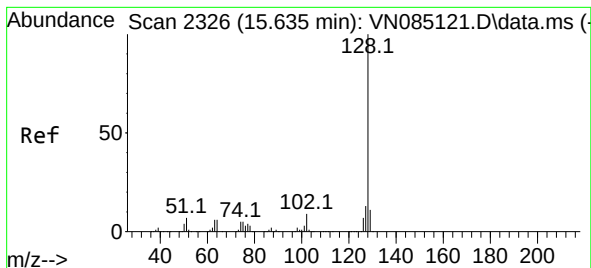
Tgt Ion:180 Resp: 34577
Ion Ratio Lower Upper
180 100
182 92.5 74.0 111.0
145 35.8 28.6 43.0



#90
Hexachlorobutadiene
Concen: 19.222 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085118.D
Acq: 06 Dec 2024 10:26

Tgt Ion:225 Resp: 18570
Ion Ratio Lower Upper
225 100
223 60.9 0.0 121.8
227 63.4 0.0 126.8





#91

Naphthalene

Concen: 17.011 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

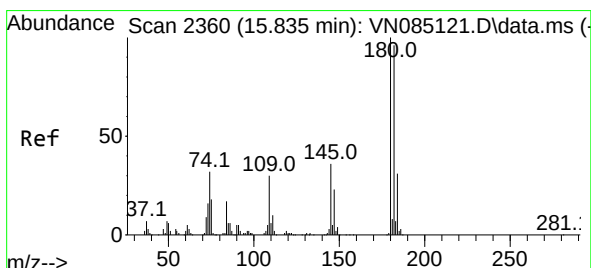
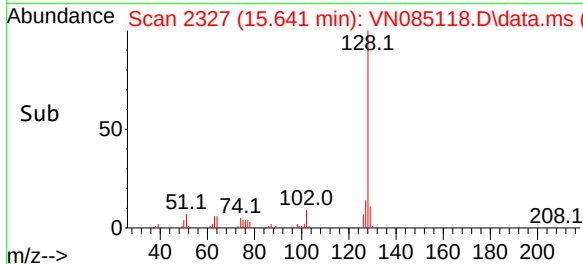
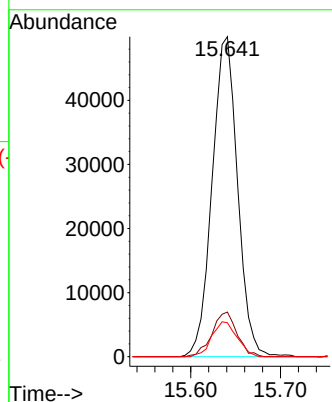
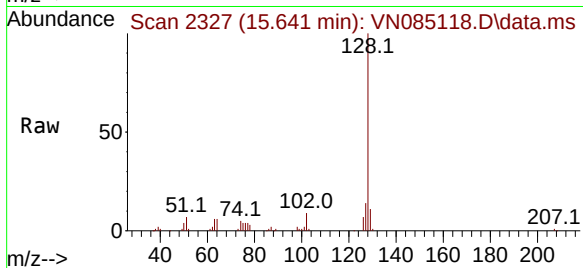
Tgt Ion:128 Resp: 98254

Ion Ratio Lower Upper

128 100

127 13.7 11.0 16.4

129 10.9 8.7 13.1



#92

1,2,3-Trichlorobenzene

Concen: 18.598 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085118.D

Acq: 06 Dec 2024 10:26

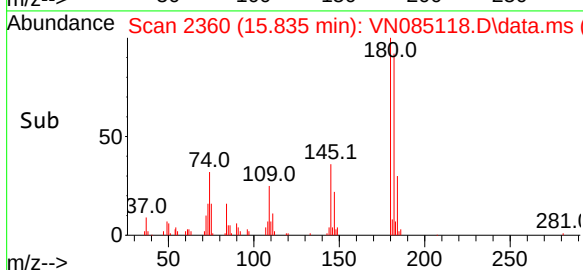
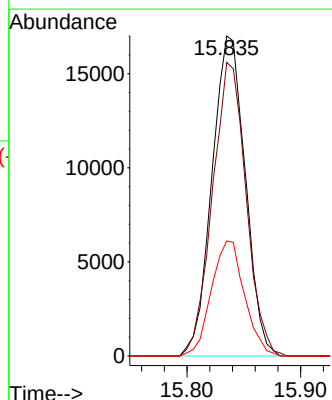
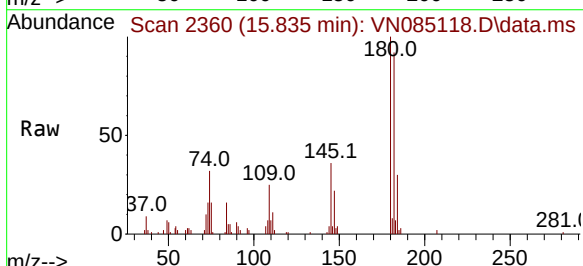
Tgt Ion:180 Resp: 34577

Ion Ratio Lower Upper

180 100

182 92.5 0.0 185.0

145 35.8 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085119.D
 Acq On : 06 Dec 2024 10:49
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Dec 06 22:29:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32631	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	169083	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	158595	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	73850	28.523	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.067%		
60) 4-Bromofluorobenzene	12.847	95	79229	30.193	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.633%		
63) Toluene-d8	10.565	98	220709	29.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	126923	48.618	ug/l	95
3) Chloromethane	2.359	50	109481	47.379	ug/l	97
4) Vinyl Chloride	2.512	62	110184	46.620	ug/l	95
5) Bromomethane	2.959	94	68578	45.702	ug/l	97
6) Chloroethane	3.124	64	68457	47.145	ug/l	96
7) Trichlorofluoromethane	3.500	101	180635	46.691	ug/l	99
8) Diethyl Ether	3.959	74	59301	48.393	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	103346	47.768	ug/l	97
10) 1,1-Dichloroethene	4.341	96	94788	47.699	ug/l	96
11) Methyl Iodide	4.589	142	133247	48.346	ug/l	97
12) Methyl Acetate	5.018	43	110575	47.166	ug/l	99
13) Acrolein	4.171	56	81406	238.946	ug/l	93
14) Acrylonitrile	5.712	53	233375	239.739	ug/l	97
15) Acetone	4.418	58	63386	240.283	ug/l	89
16) Carbon Disulfide	4.712	76	275285	46.345	ug/l	100
17) Allyl chloride	5.024	41	137437	48.333	ug/l	92
18) Methylene Chloride	5.277	84	104822	46.488	ug/l	98
19) trans-1,2-Dichloroethene	5.788	96	96901	46.913	ug/l	90
20) Diisopropyl ether	6.671	45	301677	48.342	ug/l	99
21) 1,1-Dichloroethane	6.565	63	177808	46.165	ug/l	99
22) cis-1,2-Dichloroethene	7.482	96	113782	47.926	ug/l	98
23) tert-Butyl Alcohol	5.512	59	80412	230.265	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	300411	48.425	ug/l #	77
25) Chloroform	7.965	83	190773	47.279	ug/l	98
26) Cyclohexane	8.253	56	158534	49.989	ug/l	98
29) 1,1-Dichloropropene	8.371	75	131946	48.360	ug/l	99
30) 2-Butanone	7.477	43	307572	245.653	ug/l	99
31) 2,2-Dichloropropane	7.488	77	169610	48.478	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	174371	47.217	ug/l	98
33) Carbon Tetrachloride	8.359	117	159586	47.889	ug/l	97
34) Benzene	8.606	78	410169	47.855	ug/l	98
35) Methacrylonitrile	7.777	41	72876	51.722	ug/l	91
36) 1,2-Dichloroethane	8.671	62	138391	47.430	ug/l	100
37) Trichloroethene	9.353	130	96801	47.426	ug/l	96
38) Methylcyclohexane	9.600	83	148222	49.963	ug/l	95
39) 1,2-Dichloropropane	9.618	63	98790	47.586	ug/l	96
40) Dibromomethane	9.706	93	71433	47.969	ug/l	99
41) Bromodichloromethane	9.882	83	152481	47.898	ug/l	96
42) Vinyl Acetate	6.600	43	1122209	256.138	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085119.D
 Acq On : 06 Dec 2024 10:49
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

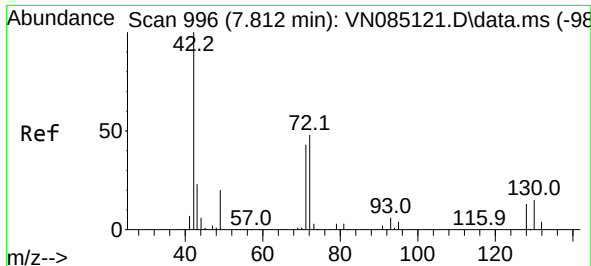
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	124173	49.844	ug/l	# 92
44) Isopropyl Acetate	8.682	43	211189	48.782	ug/l	99
45) 1,4-Dioxane	9.694	88	35720	989.420	ug/l	95
46) Methyl methacrylate	9.676	41	97397	49.158	ug/l	94
47) n-amyl Acetate	12.488	43	184994	50.788	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	152504	48.801	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	164287	48.292	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	94692	47.189	ug/l	98
51) Ethyl methacrylate	10.870	69	152776	50.057	ug/l	97
52) 1,3-Dichloropropane	11.159	76	164130	48.874	ug/l	99
53) Dibromochloromethane	11.359	129	116277	47.550	ug/l	97
54) 1,2-Dibromoethane	11.465	107	98049	48.496	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	363042	256.062	ug/l	100
56) Bromoform	12.576	173	79589	48.542	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	638976	246.869	ug/l	98
59) 2-Hexanone	11.194	43	490910	250.312	ug/l	98
61) Tetrachloroethene	11.100	164	90418	47.078	ug/l	96
62) Toluene	10.629	91	444180	48.023	ug/l	99
64) Chlorobenzene	11.888	112	274152	48.008	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	101559	47.641	ug/l	95
66) Ethyl Benzene	11.959	91	487612	49.682	ug/l	96
67) m/p-Xylenes	12.070	106	373298	98.889	ug/l	95
68) o-Xylene	12.394	106	179899	50.744	ug/l	97
69) Styrene	12.406	104	307715	51.151	ug/l	98
70) Isopropylbenzene	12.694	105	461786	50.502	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	132922	47.759	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	176818	64.314	ug/l	76
73) Bromobenzene	12.976	156	111567	48.711	ug/l	99
74) n-propylbenzene	13.035	91	550361	50.065	ug/l	99
75) 2-Chlorotoluene	13.123	91	334590	49.227	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	393277	50.202	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	48505	48.553	ug/l	97
78) 4-Chlorotoluene	13.217	91	336818	48.823	ug/l	98
79) tert-butylbenzene	13.435	119	324073	50.365	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	396249	51.207	ug/l	100
81) sec-Butylbenzene	13.611	105	456540	49.942	ug/l	99
82) p-Isopropyltoluene	13.729	119	386040	50.937	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	204168	48.588	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	200637	48.993	ug/l	99
85) n-Butylbenzene	14.053	91	325144	51.146	ug/l	99
86) Hexachloroethane	14.329	117	71737	47.548	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	193910	48.889	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	26674	47.975	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	96150	49.499	ug/l	98
90) Hexachlorobutadiene	15.500	225	45780	45.354	ug/l	97
91) Naphthalene	15.641	128	310785	51.498	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	96150	49.499	ug/l	98

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

Quant Time: Dec 06 22:29:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:19:40 2024
Response via : Initial Calibration

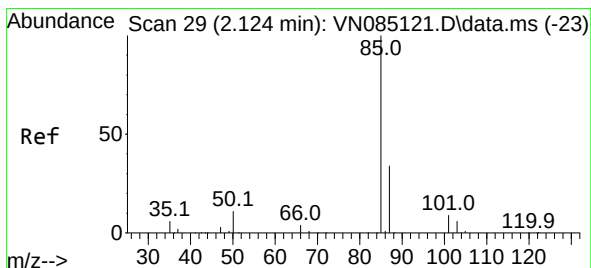
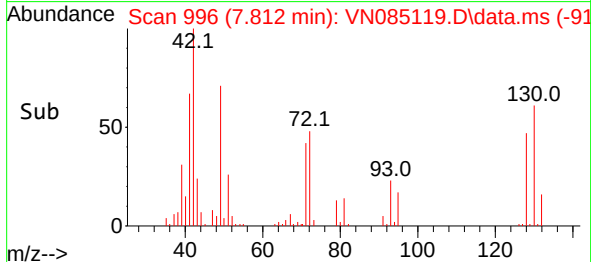
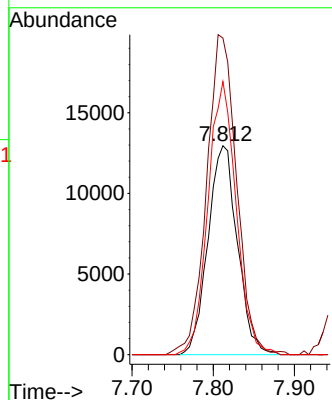
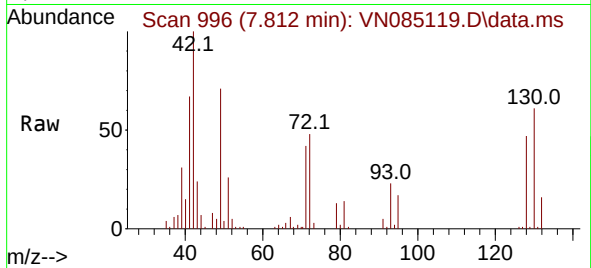




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

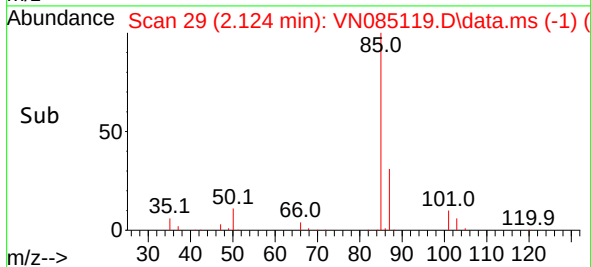
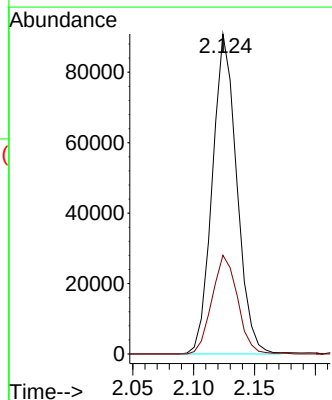
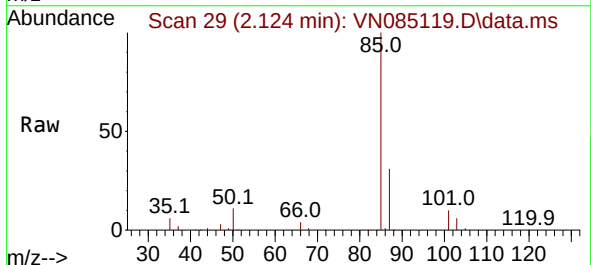
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

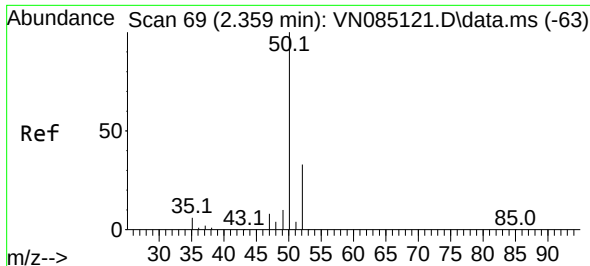
Tgt Ion:128 Resp: 32631
Ion Ratio Lower Upper
128 100
49 155.7 0.0 394.5
130 125.6 0.0 316.5



#2
Dichlorodifluoromethane
Concen: 48.618 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 85 Resp: 126923
Ion Ratio Lower Upper
85 100
87 30.9 16.8 50.3

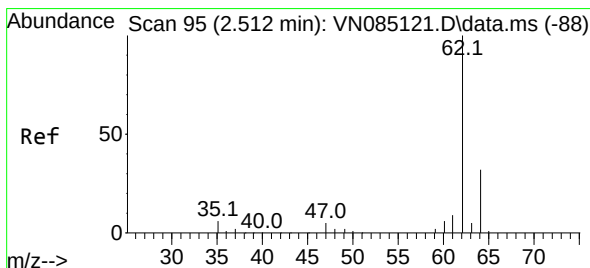
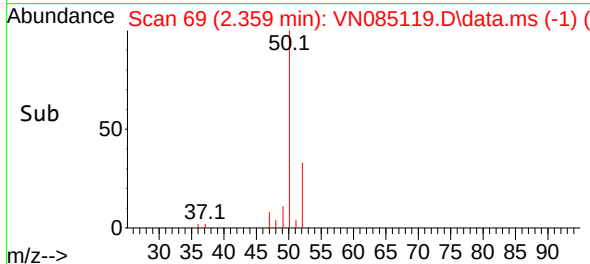
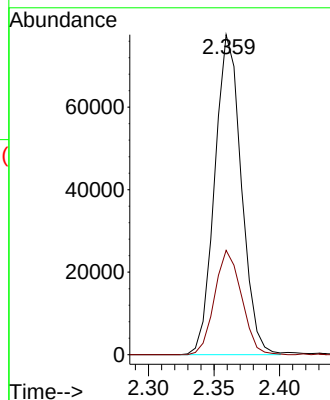
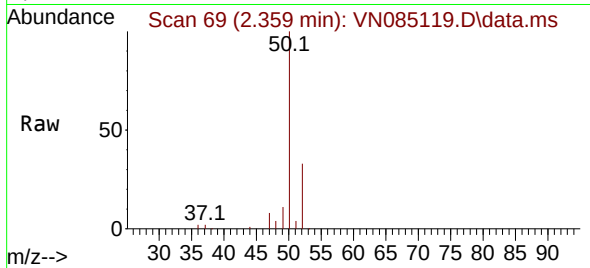




#3
Chloromethane
Concen: 47.379 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

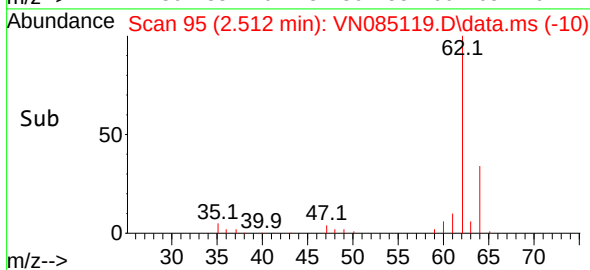
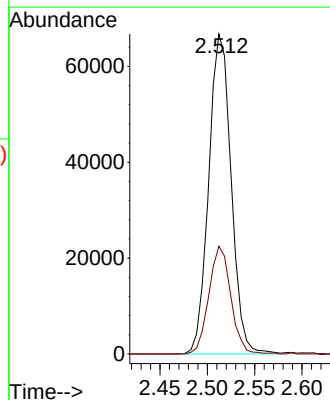
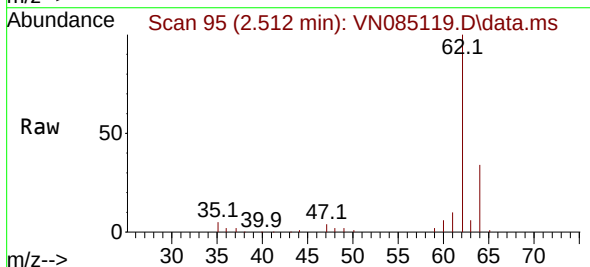
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

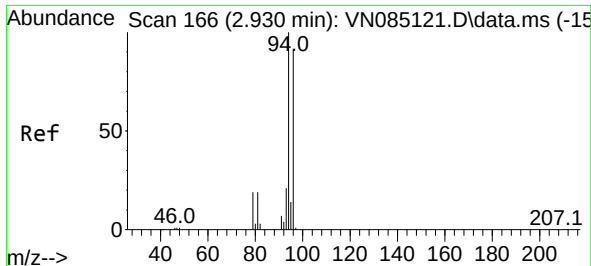
Tgt Ion: 50 Resp: 109481
Ion Ratio Lower Upper
50 100
52 32.6 25.0 37.4



#4
Vinyl Chloride
Concen: 46.620 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 62 Resp: 110184
Ion Ratio Lower Upper
62 100
64 33.7 24.9 37.3

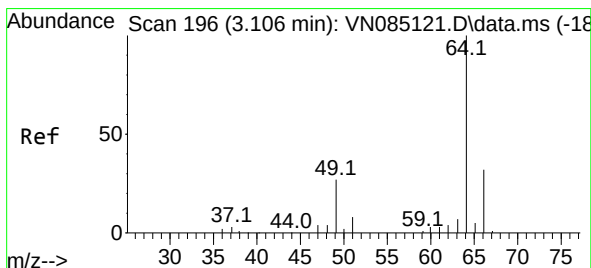
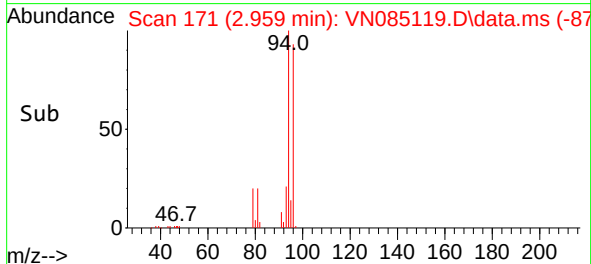
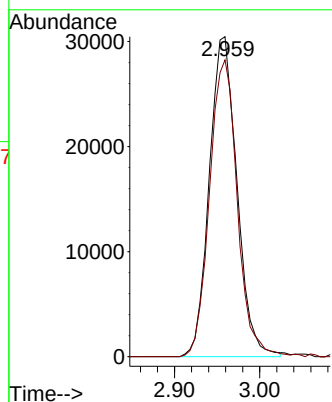
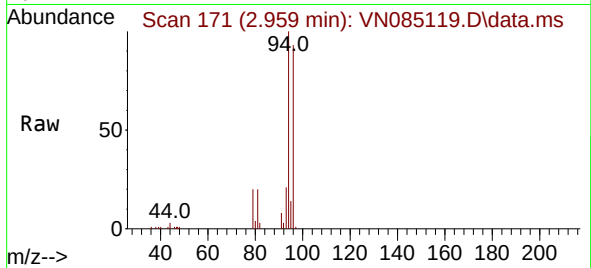




#5
Bromomethane
Concen: 45.702 ug/l
RT: 2.959 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

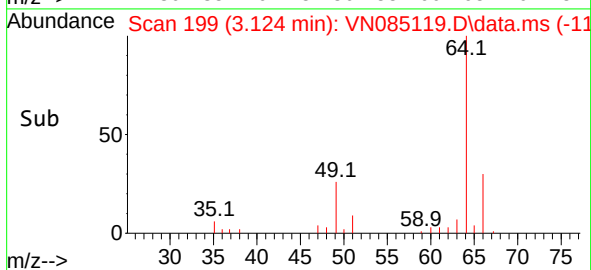
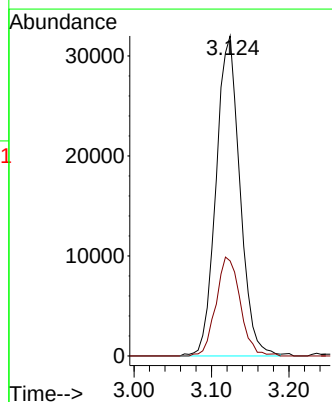
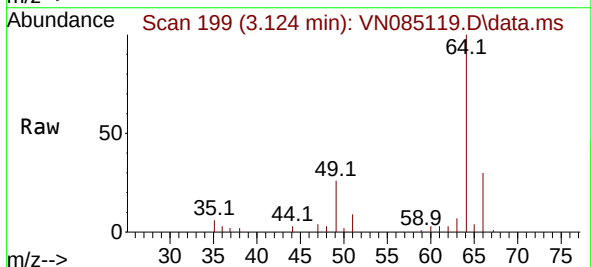
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

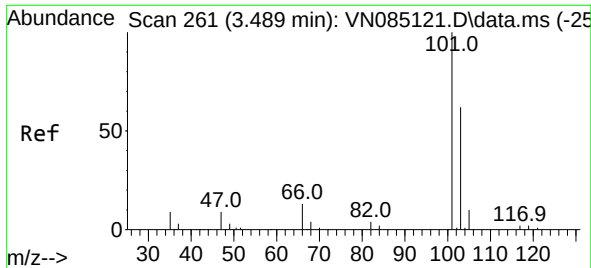
Tgt Ion: 94 Resp: 68578
Ion Ratio Lower Upper
94 100
96 92.8 76.2 114.4



#6
Chloroethane
Concen: 47.145 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 64 Resp: 68457
Ion Ratio Lower Upper
64 100
66 29.7 25.5 38.3

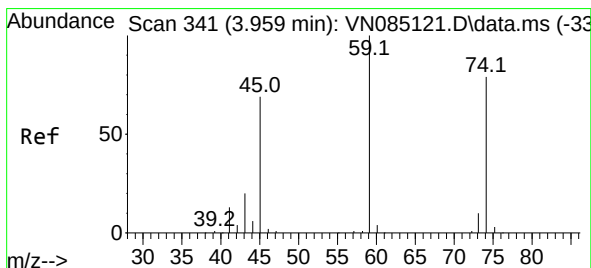
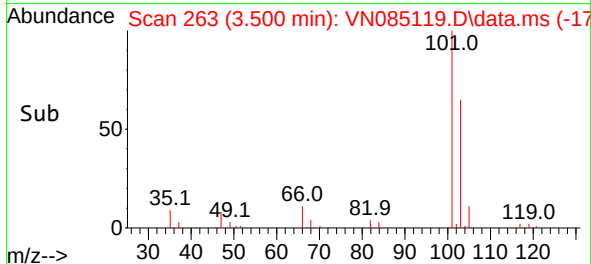
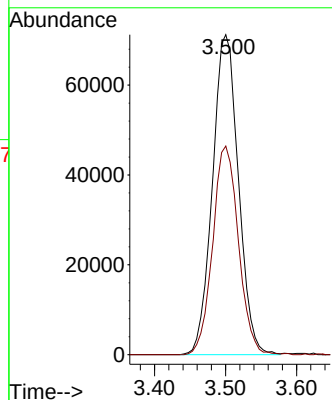
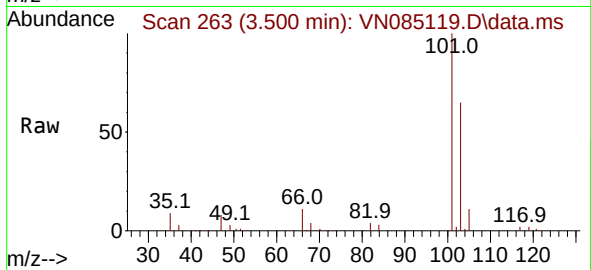




#7
Trichlorofluoromethane
Concen: 46.691 ug/l
RT: 3.500 min Scan# 261
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

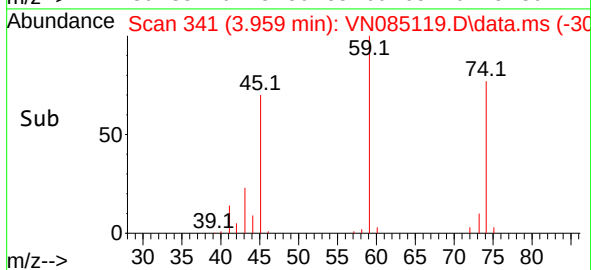
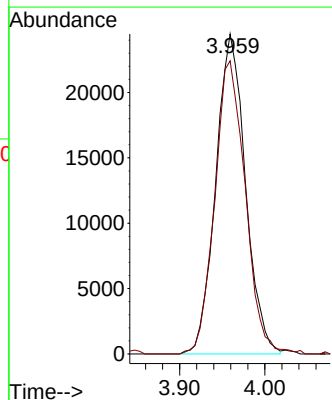
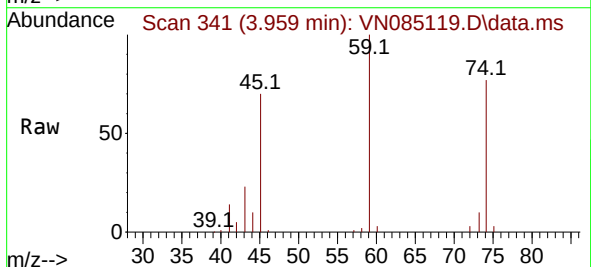
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

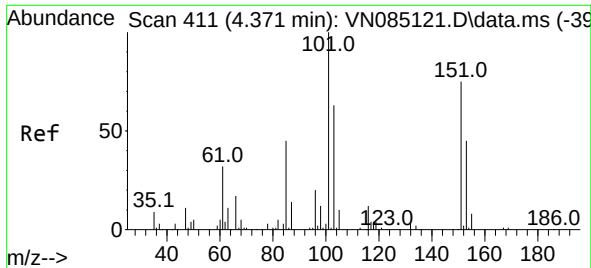
Tgt Ion:101 Resp: 180635
Ion Ratio Lower Upper
101 100
103 65.2 51.3 76.9



#8
Diethyl Ether
Concen: 48.393 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 74 Resp: 59301
Ion Ratio Lower Upper
74 100
45 93.5 18.6 167.8

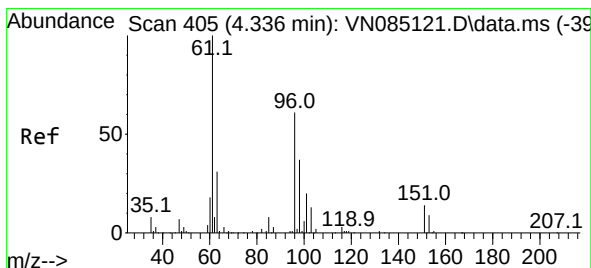
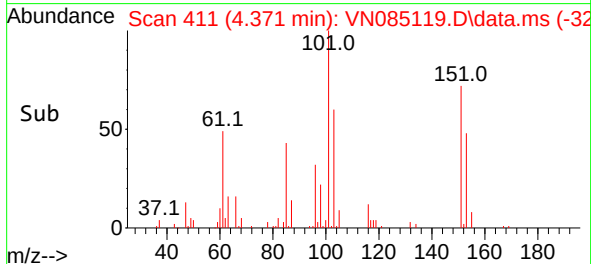
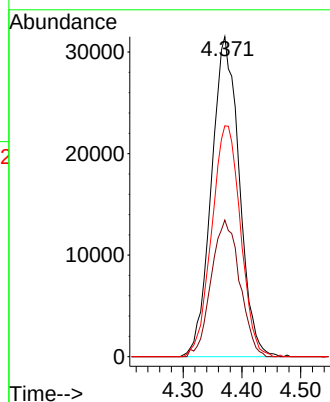
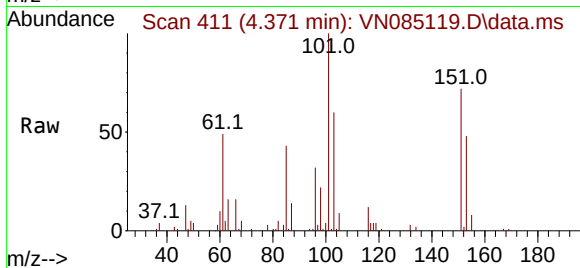




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 47.768 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

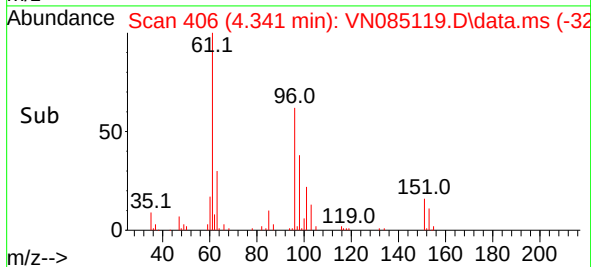
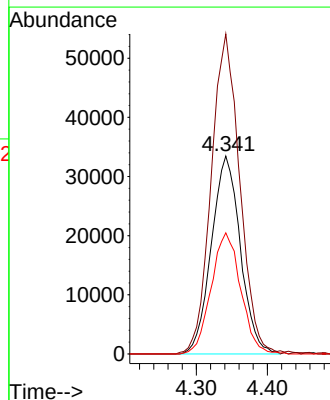
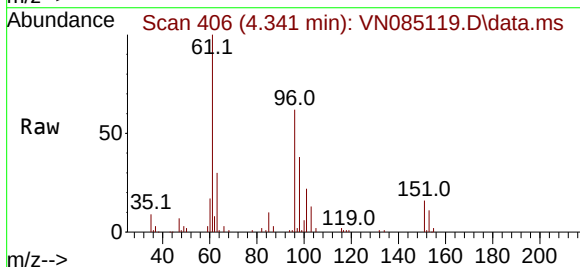
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

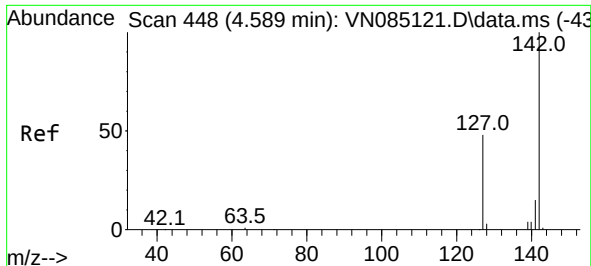
Tgt Ion:101 Resp: 103346
 Ion Ratio Lower Upper
 101 100
 85 43.9 0.0 88.6
 151 74.8 0.0 155.8



#10
 1,1-Dichloroethene
 Concen: 47.699 ug/l
 RT: 4.341 min Scan# 406
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

Tgt Ion: 96 Resp: 94788
 Ion Ratio Lower Upper
 96 100
 61 160.9 123.0 184.4
 98 61.2 49.1 73.7

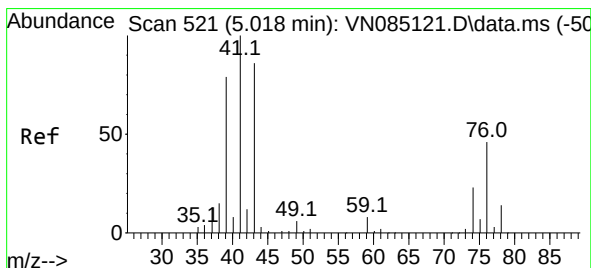
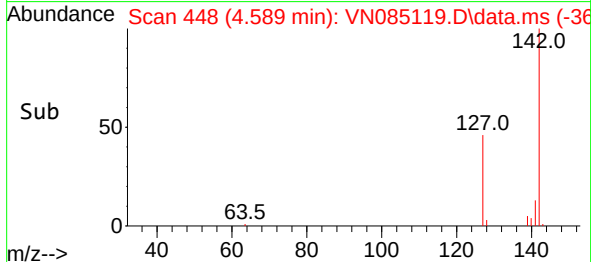
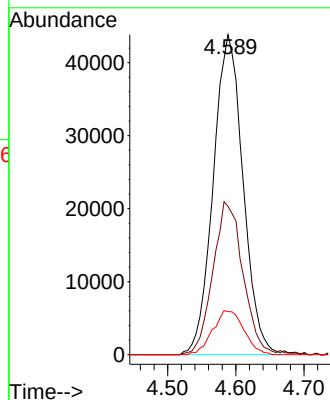
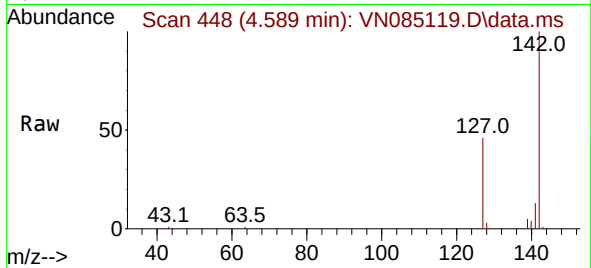




#11
Methyl Iodide
Concen: 48.346 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

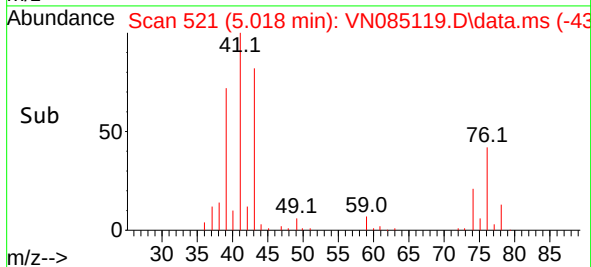
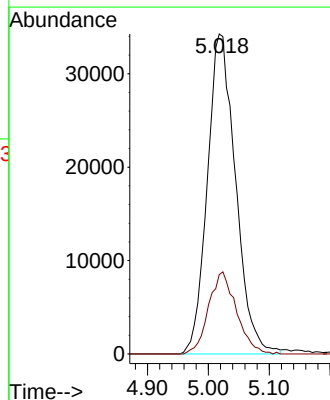
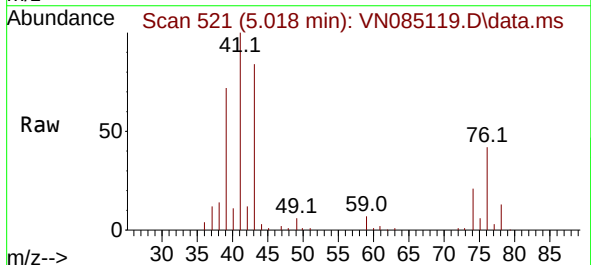
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

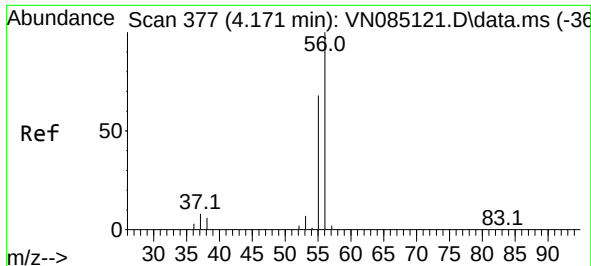
Tgt Ion:142 Resp: 133247
Ion Ratio Lower Upper
142 100
127 45.9 22.5 67.5
141 13.5 8.3 24.9



#12
Methyl Acetate
Concen: 47.166 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 43 Resp: 110575
Ion Ratio Lower Upper
43 100
74 25.0 19.8 29.6

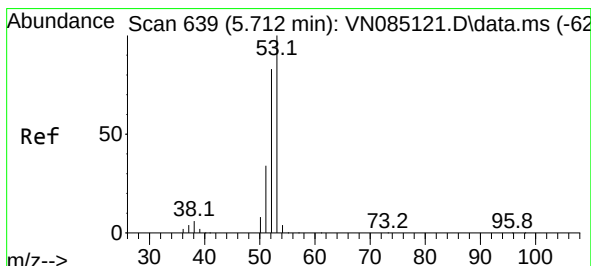
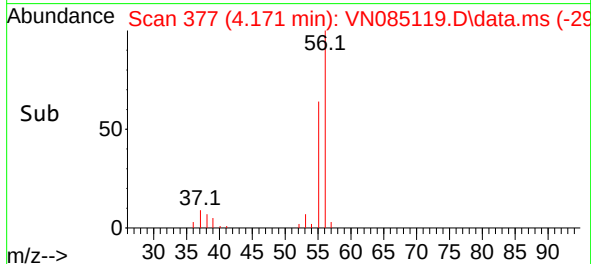
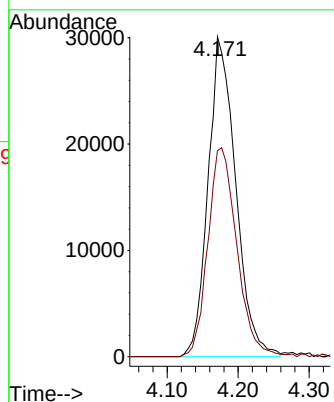
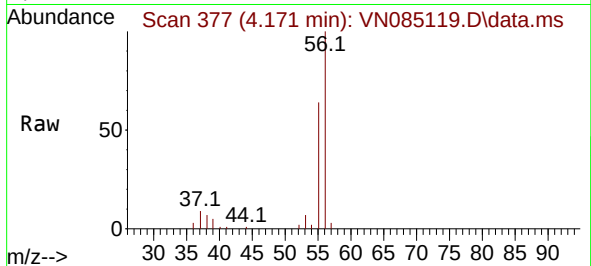




#13
Acrolein
Concen: 238.946 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.012 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

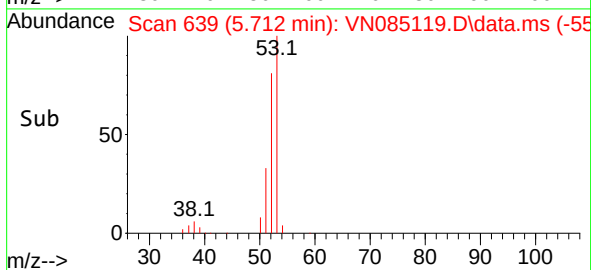
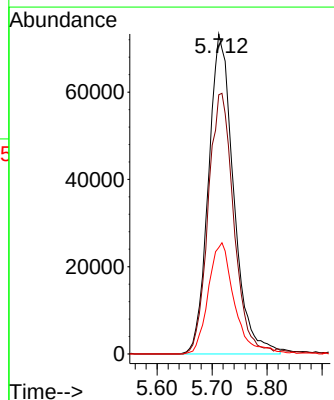
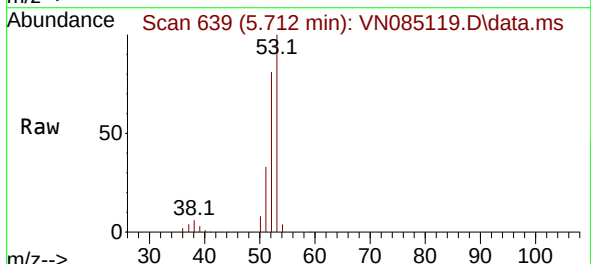
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

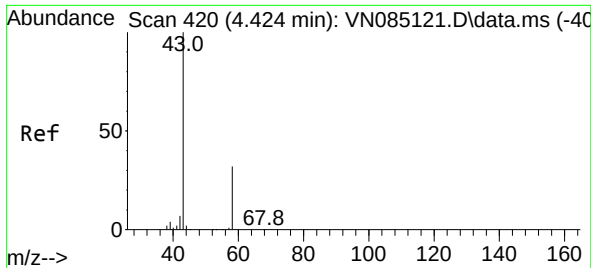
Tgt Ion: 56 Resp: 81406
Ion Ratio Lower Upper
56 100
55 68.3 59.4 89.0



#14
Acrylonitrile
Concen: 239.739 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 53 Resp: 233375
Ion Ratio Lower Upper
53 100
52 82.5 42.9 128.5
51 36.1 17.2 51.5





#15

Acetone

Concen: 240.283 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

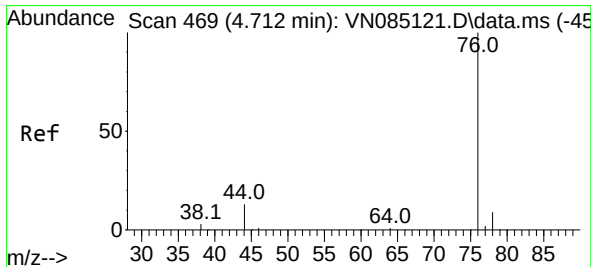
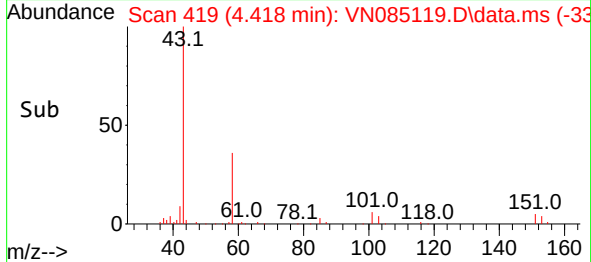
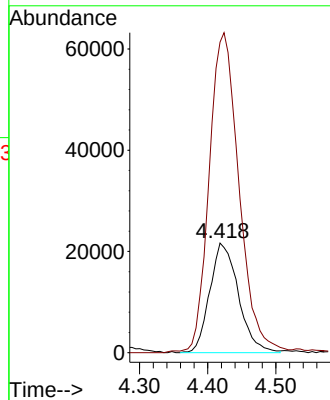
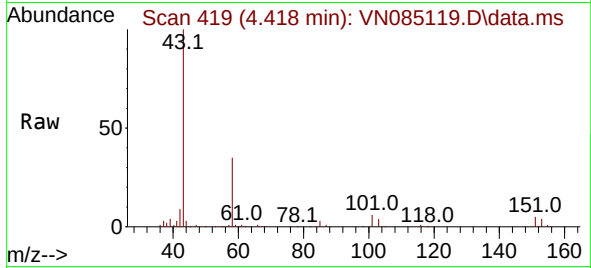
VSTDICC050

Tgt Ion: 58 Resp: 63386

Ion Ratio Lower Upper

58 100

43 281.8 242.3 363.5



#16

Carbon Disulfide

Concen: 46.345 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN085119.D

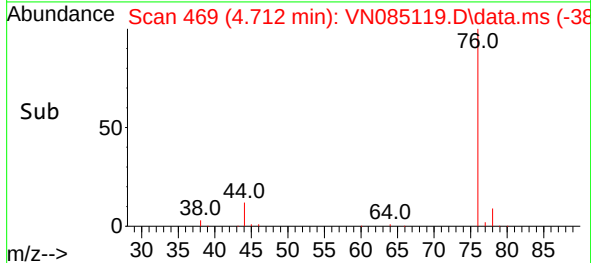
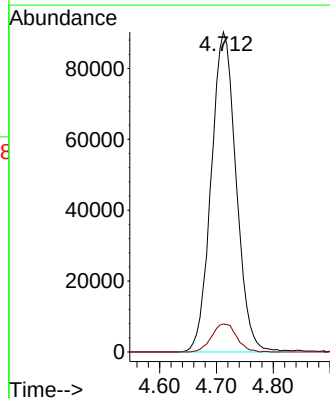
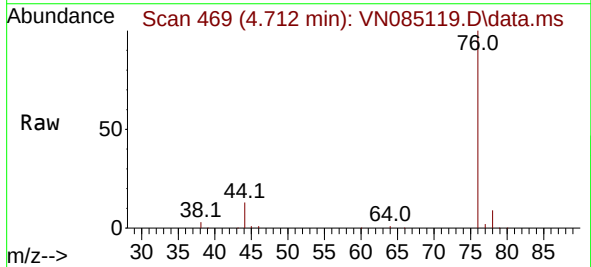
Acq: 06 Dec 2024 10:49

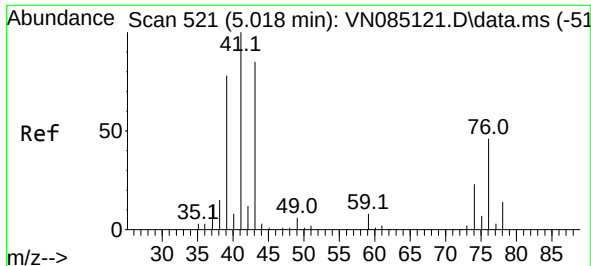
Tgt Ion: 76 Resp: 275285

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7

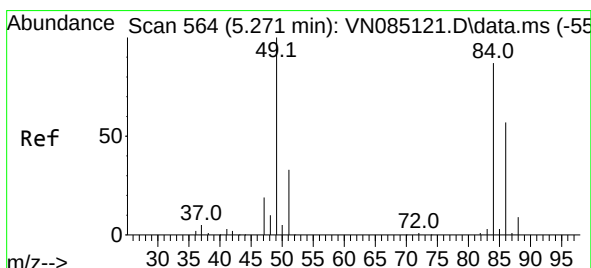
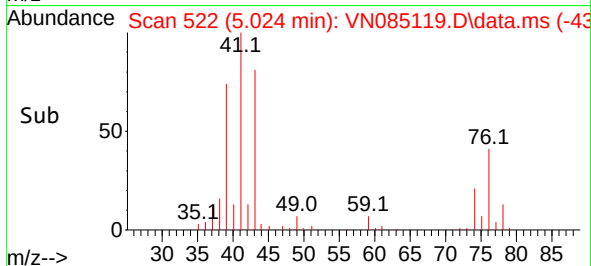
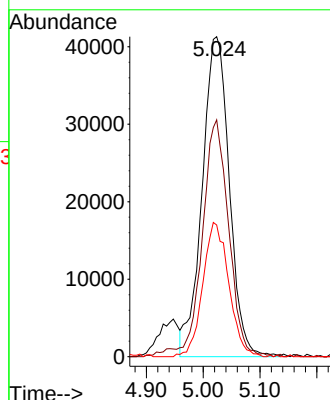
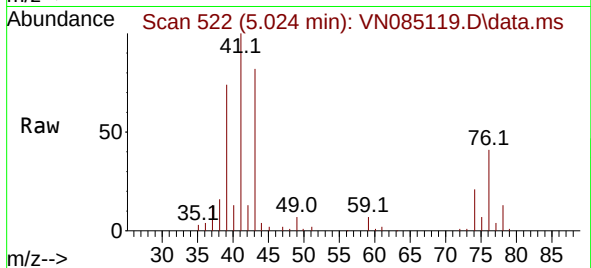




#17
 Allyl chloride
 Concen: 48.333 ug/l
 RT: 5.024 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

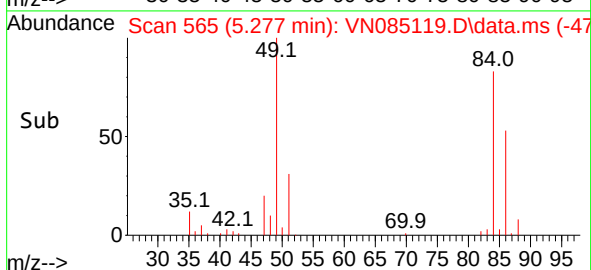
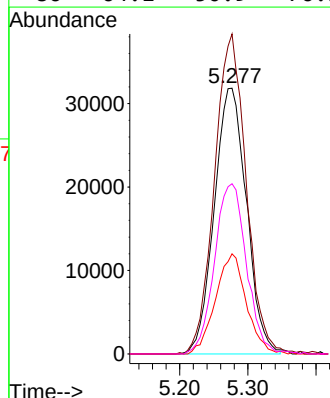
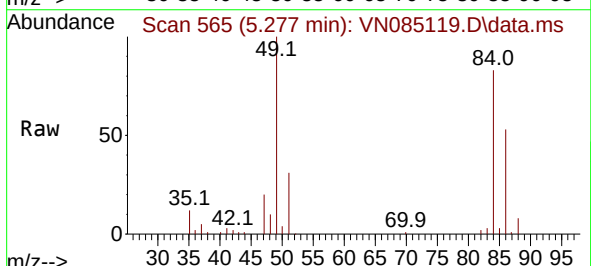
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

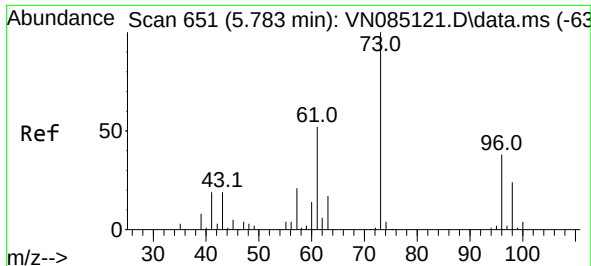
Tgt Ion: 41 Resp: 137437
 Ion Ratio Lower Upper
 41 100
 39 73.5 32.0 96.2
 76 41.3 20.2 60.5



#18
 Methylene Chloride
 Concen: 46.488 ug/l
 RT: 5.277 min Scan# 565
 Delta R.T. 0.006 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

Tgt Ion: 84 Resp: 104822
 Ion Ratio Lower Upper
 84 100
 49 119.9 95.1 142.7
 51 37.7 27.4 41.0
 86 64.1 50.9 76.3

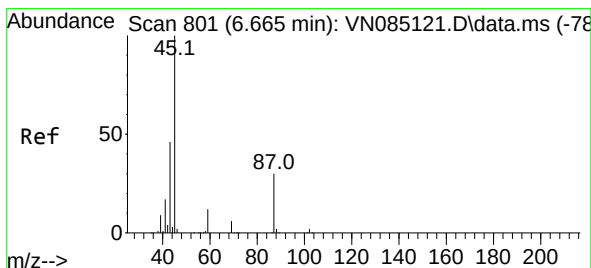
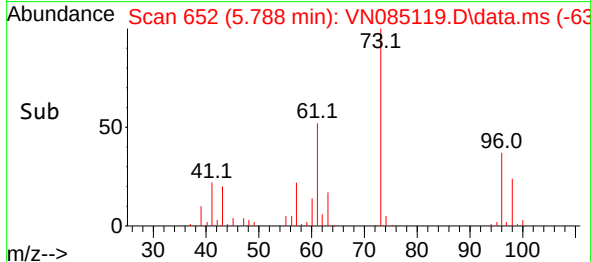
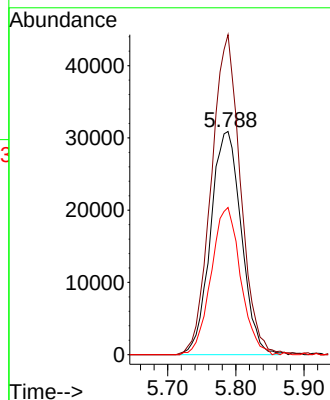
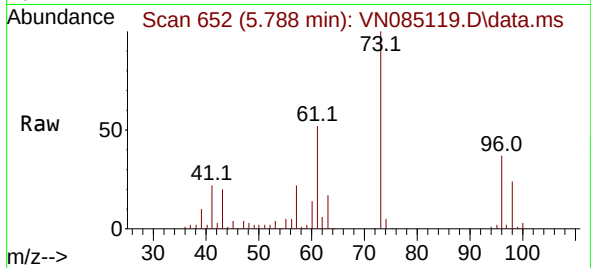




#19
trans-1,2-Dichloroethene
Concen: 46.913 ug/l
RT: 5.788 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

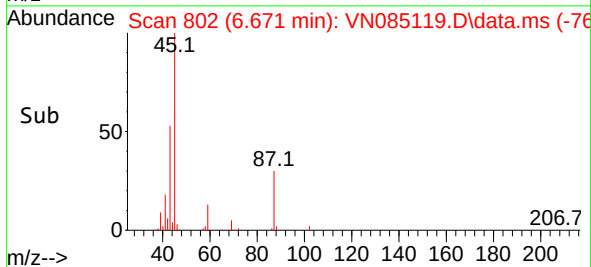
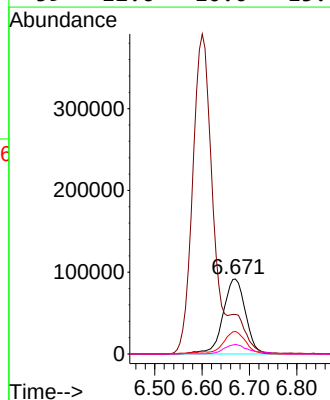
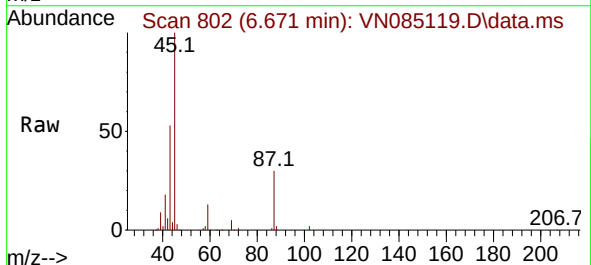
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

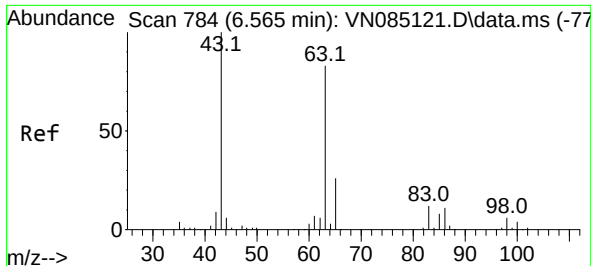
Tgt Ion: 96 Resp: 96901
Ion Ratio Lower Upper
96 100
61 142.7 100.4 150.6
98 66.0 52.6 79.0



#20
Diisopropyl ether
Concen: 48.342 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 45 Resp: 301677
Ion Ratio Lower Upper
45 100
43 51.8 41.9 62.9
87 30.1 24.1 36.1
59 12.6 10.0 15.0





#21

1,1-Dichloroethane

Concen: 46.165 ug/l

RT: 6.565 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

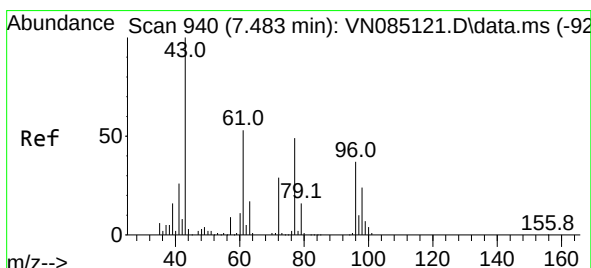
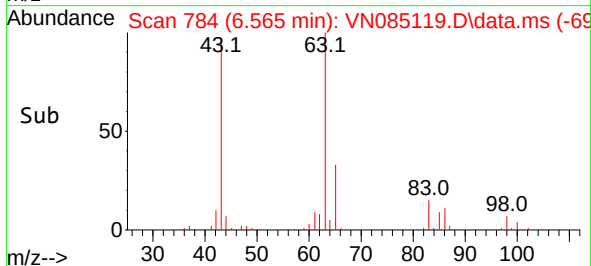
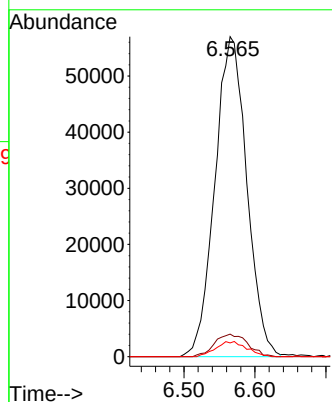
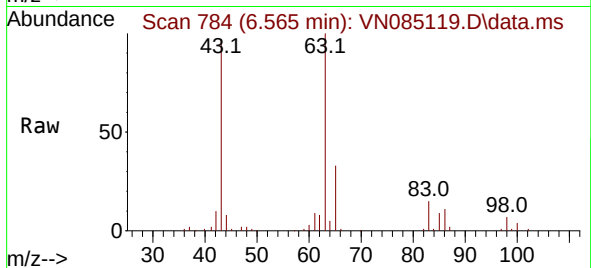
Tgt Ion: 63 Resp: 177808

Ion Ratio Lower Upper

63 100

98 7.0 3.5 10.4

100 4.3 1.6 4.8



#22

cis-1,2-Dichloroethene

Concen: 47.926 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

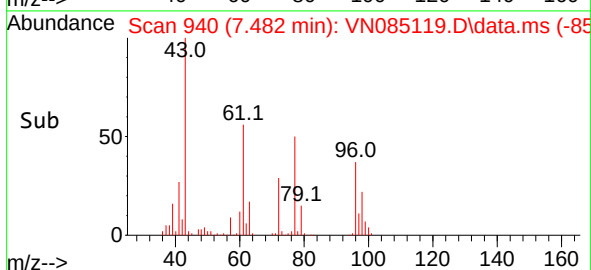
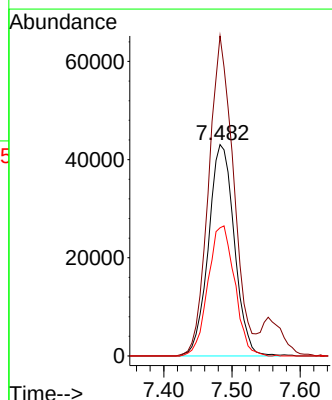
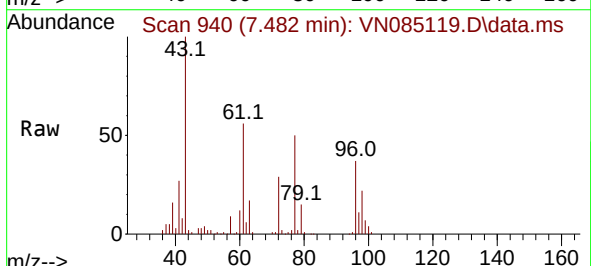
Tgt Ion: 96 Resp: 113782

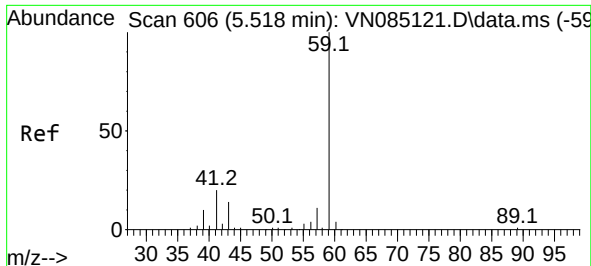
Ion Ratio Lower Upper

96 100

61 146.6 115.9 173.9

98 63.4 51.8 77.8

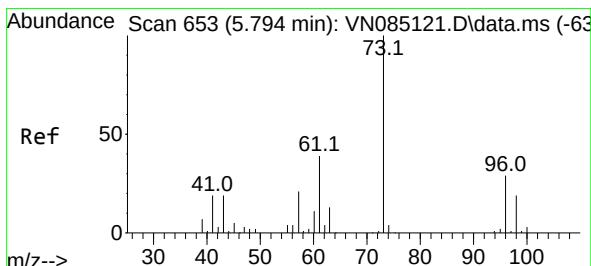
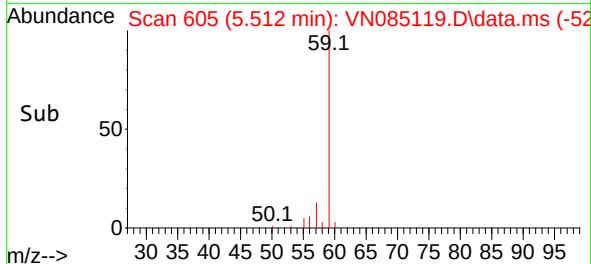
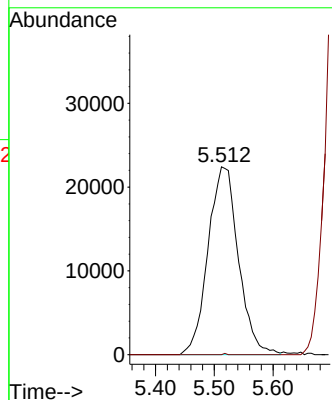
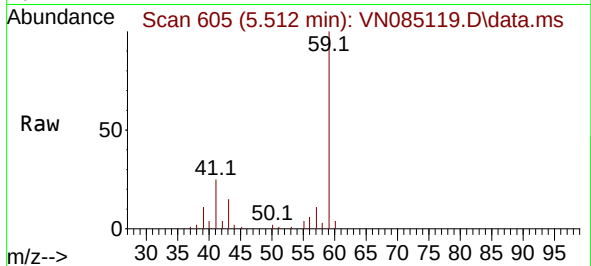




#23
tert-Butyl Alcohol
Concen: 230.265 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

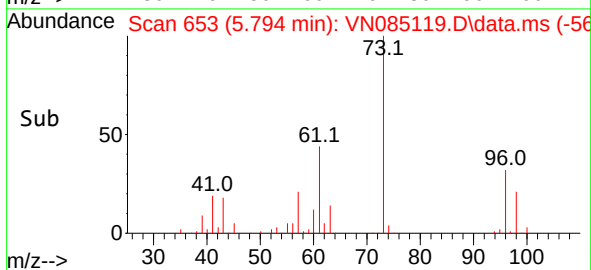
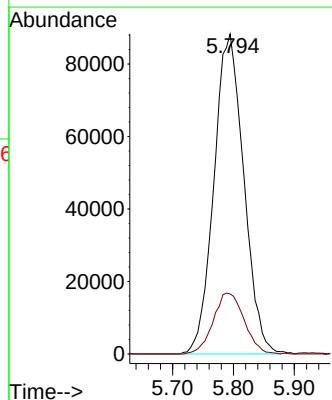
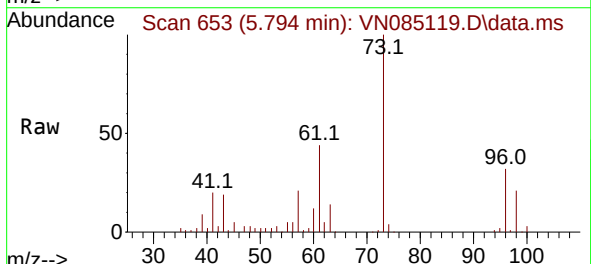
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

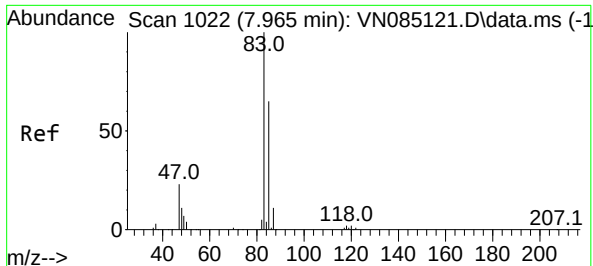
Tgt Ion: 59 Resp: 80412
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 48.425 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 73 Resp: 300411
Ion Ratio Lower Upper
73 100
43 19.7 8.7 13.1#





#25

Chloroform

Concen: 47.279 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

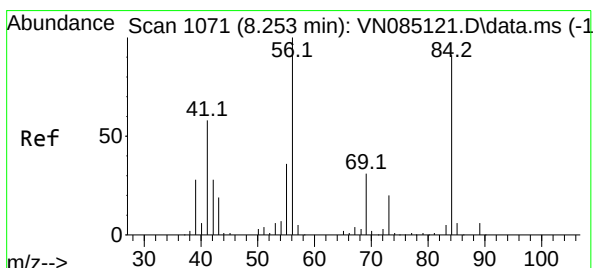
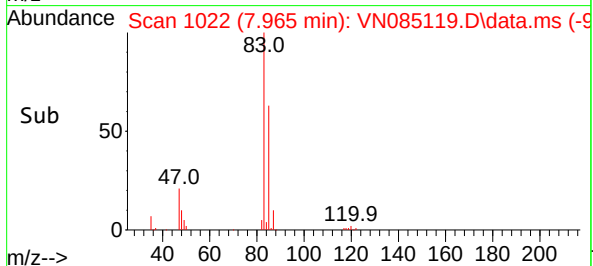
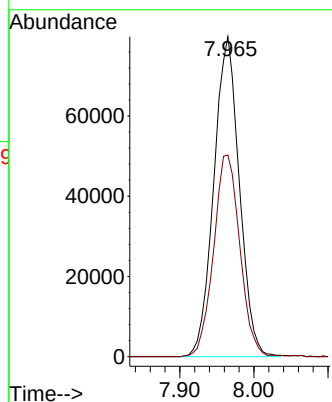
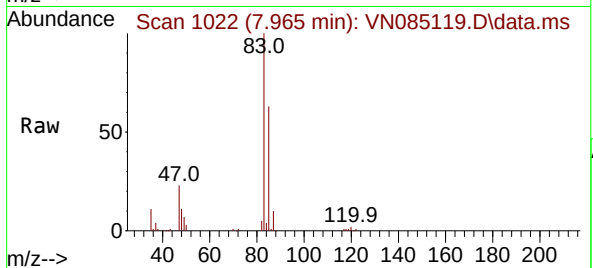
VSTDIC050

Tgt Ion: 83 Resp: 190773

Ion Ratio Lower Upper

83 100

85 63.0 49.4 74.0



#26

Cyclohexane

Concen: 49.989 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

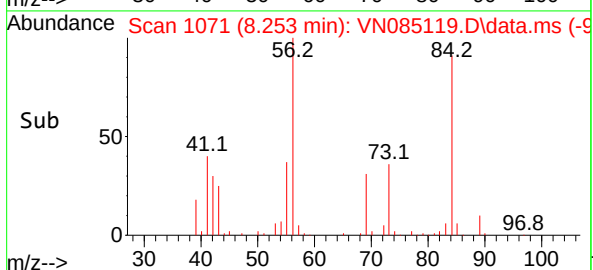
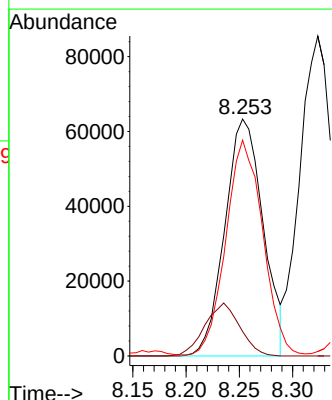
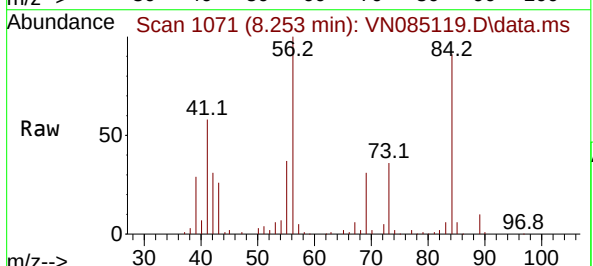
Tgt Ion: 56 Resp: 158534

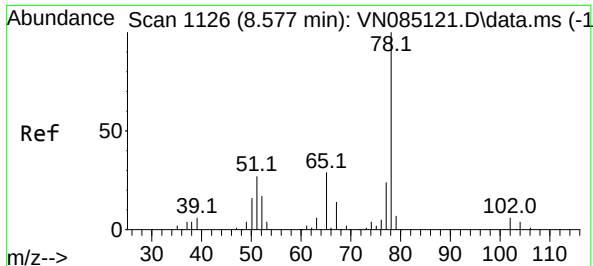
Ion Ratio Lower Upper

56 100

89 20.5 19.5 29.3

84 88.2 70.6 105.8

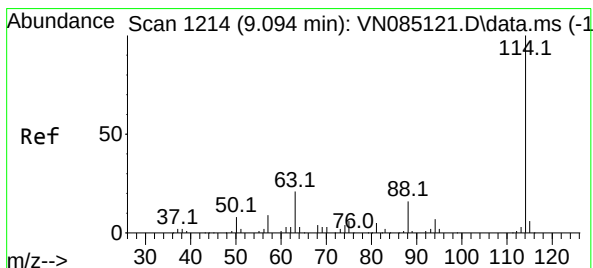
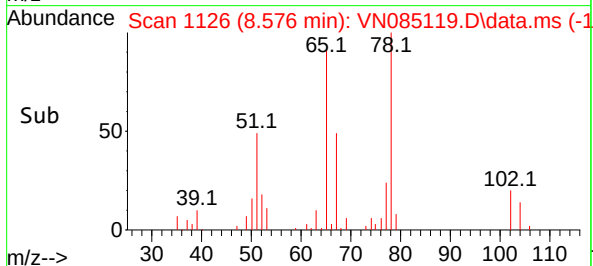
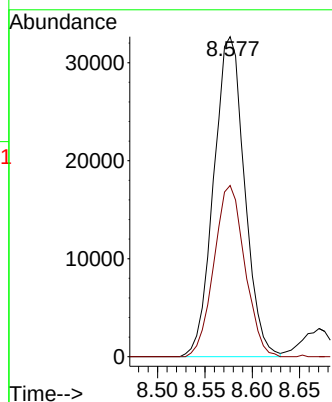
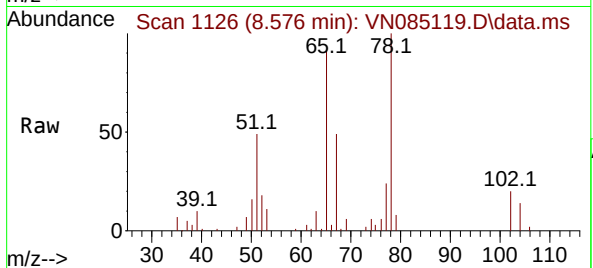




#27
1,2-Dichloroethane-d4
Concen: 28.523 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

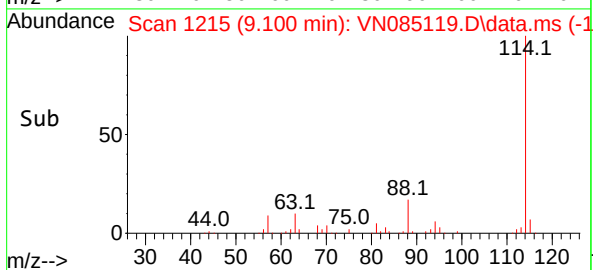
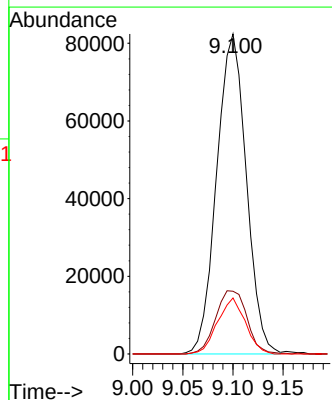
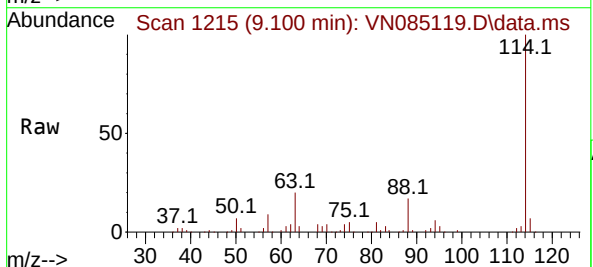
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

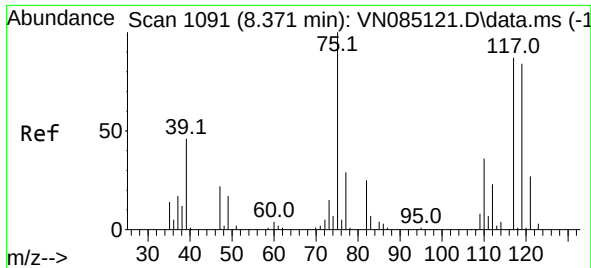
Tgt Ion: 65 Resp: 73850
Ion Ratio Lower Upper
65 100
67 53.5 39.9 59.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 114 Resp: 169083
Ion Ratio Lower Upper
114 100
63 20.9 16.2 24.2
88 16.4 12.5 18.7

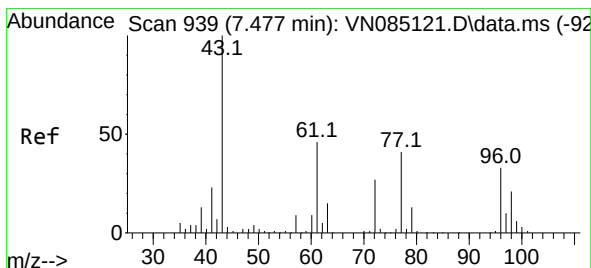
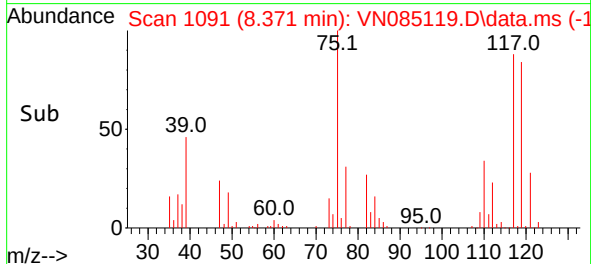
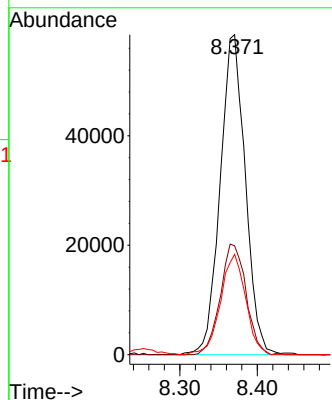
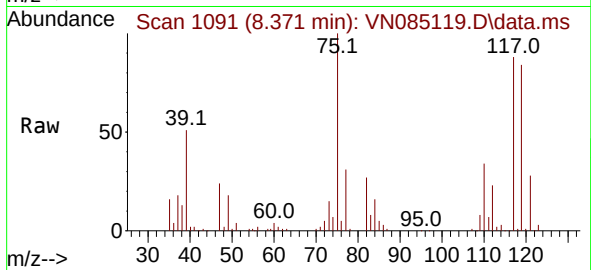




#29
1,1-Dichloropropene
Concen: 48.360 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

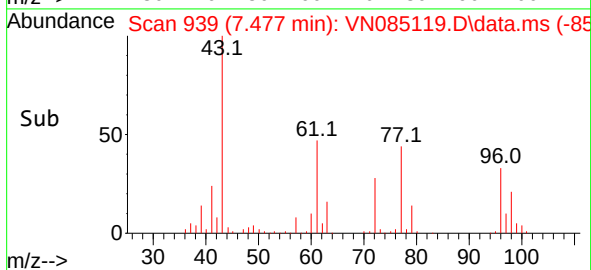
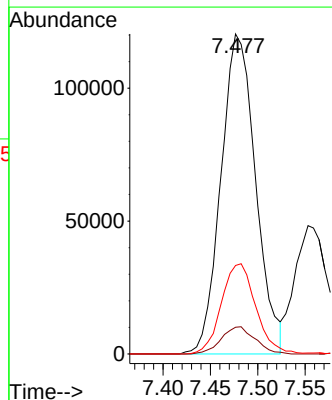
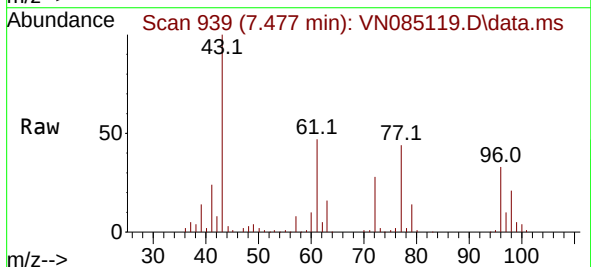
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

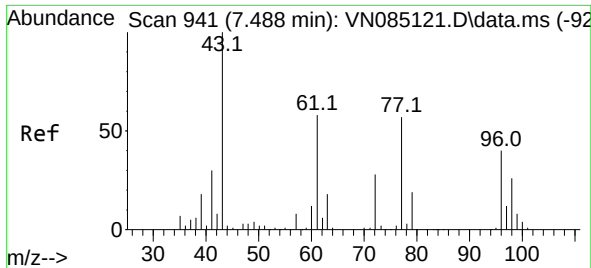
Tgt Ion: 75 Resp: 131946
Ion Ratio Lower Upper
75 100
110 35.3 0.0 71.6
77 31.4 0.0 62.2



#30
2-Butanone
Concen: 245.653 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 43 Resp: 307572
Ion Ratio Lower Upper
43 100
57 8.2 6.9 10.3
72 27.8 21.8 32.8

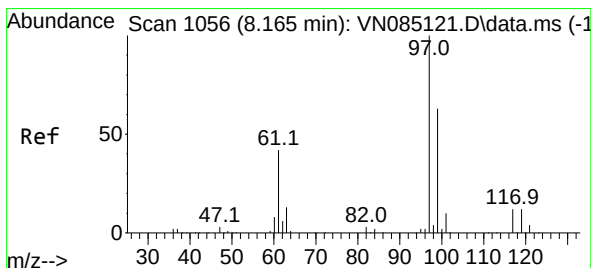
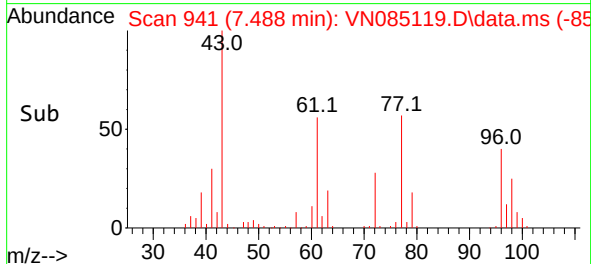
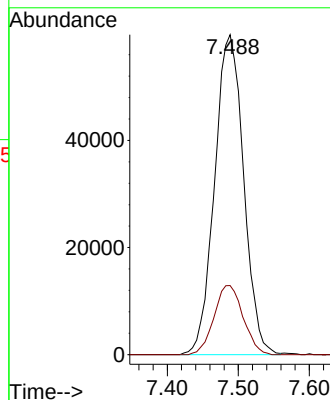
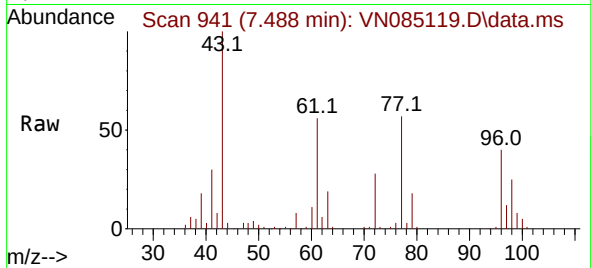




#31
2,2-Dichloropropane
Concen: 48.478 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

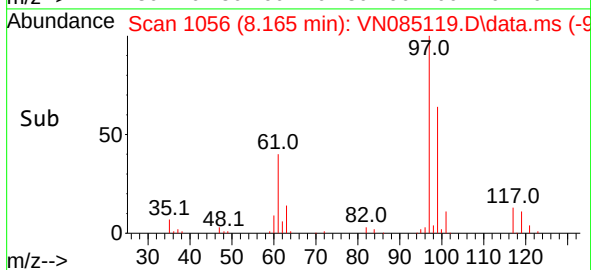
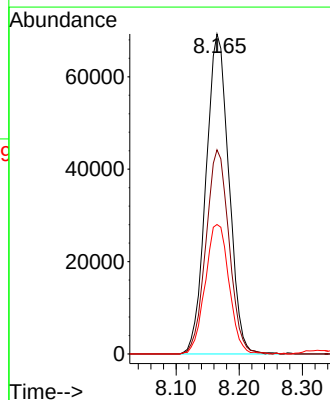
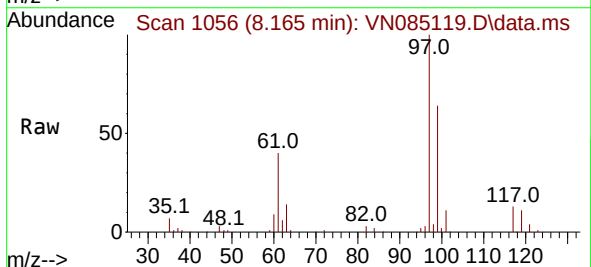
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

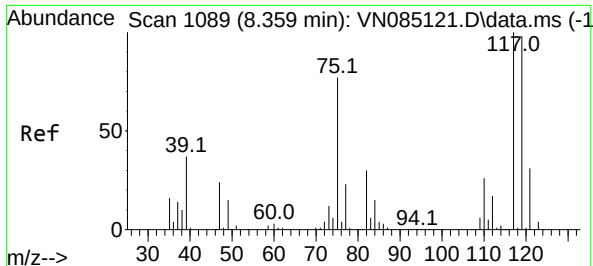
Tgt Ion: 77 Resp: 169610
Ion Ratio Lower Upper
77 100
97 21.6 0.0 0.0#



#32
1,1,1-Trichloroethane
Concen: 47.217 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 97 Resp: 174371
Ion Ratio Lower Upper
97 100
99 64.6 50.8 76.2
61 42.0 32.7 49.1

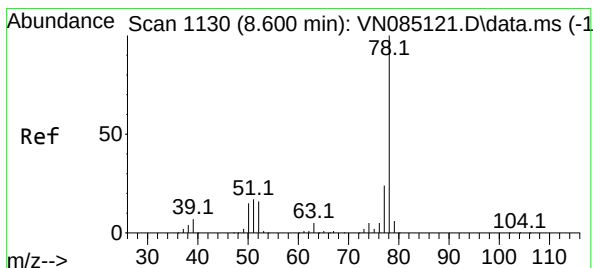
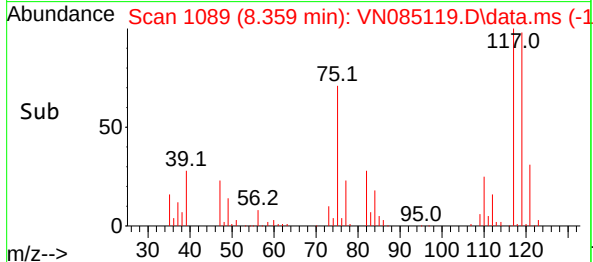
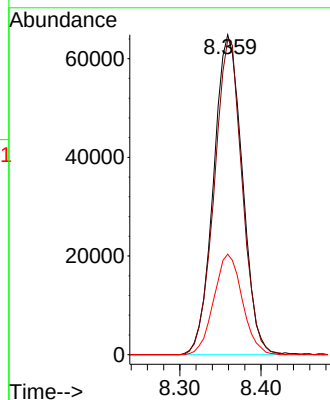
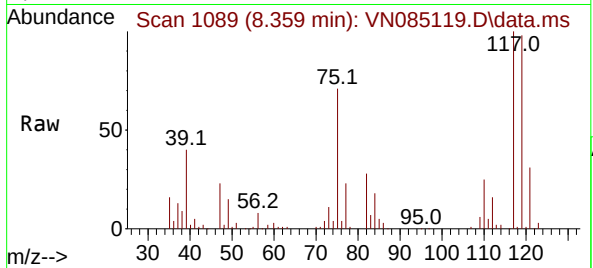




#33
Carbon Tetrachloride
Concen: 47.889 ug/l
RT: 8.359 min Scan# 1109
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

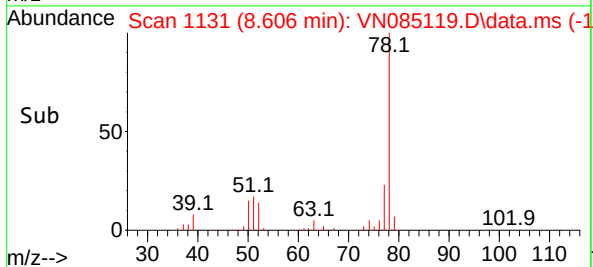
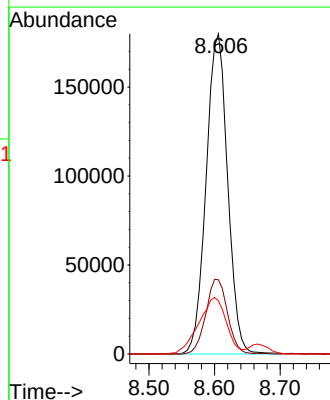
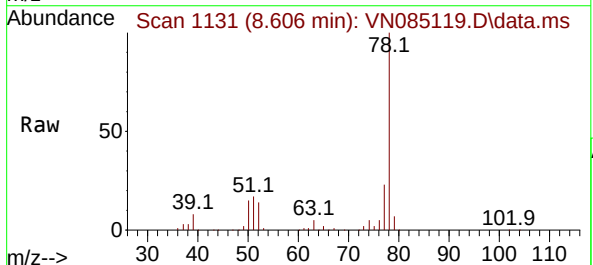
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

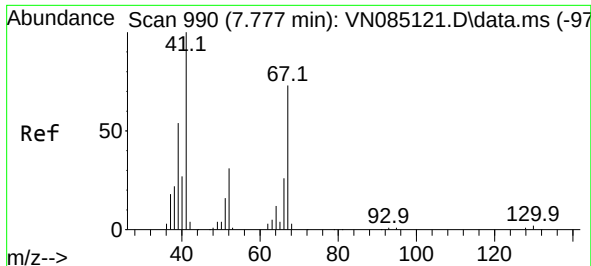
Tgt Ion:117 Resp: 159586
Ion Ratio Lower Upper
117 100
119 98.4 81.6 122.4
121 31.4 26.5 39.7



#34
Benzene
Concen: 47.855 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 78 Resp: 410169
Ion Ratio Lower Upper
78 100
77 23.2 18.0 27.0
51 16.3 12.4 18.6



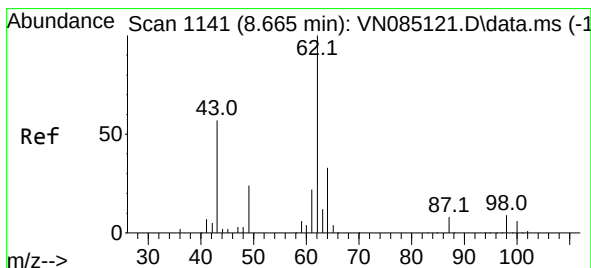
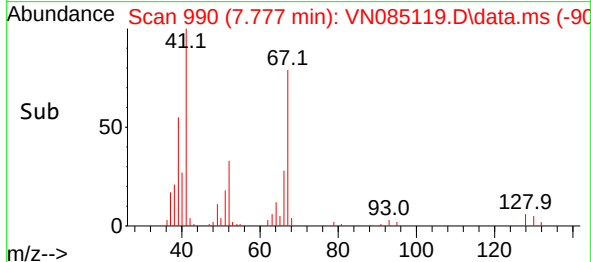
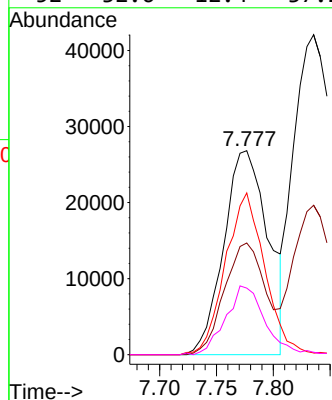
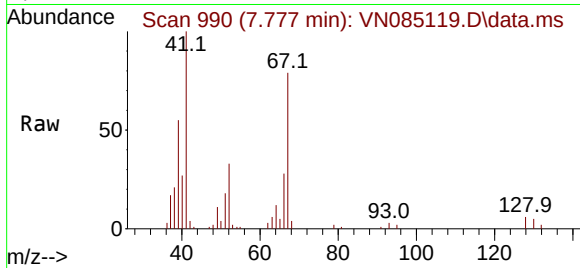


#35
Methacrylonitrile
Concen: 51.722 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 41 Resp: 72876

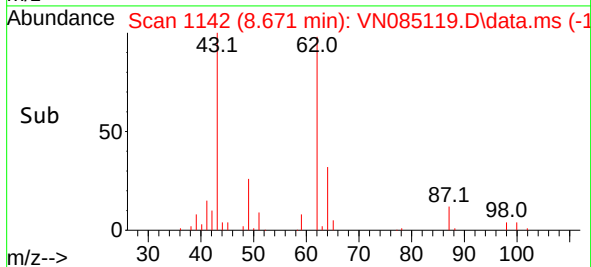
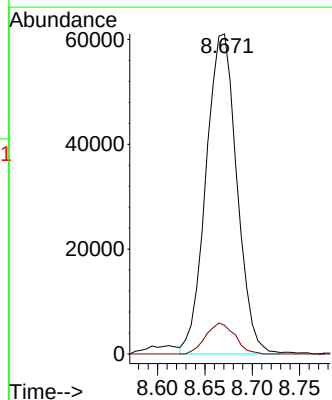
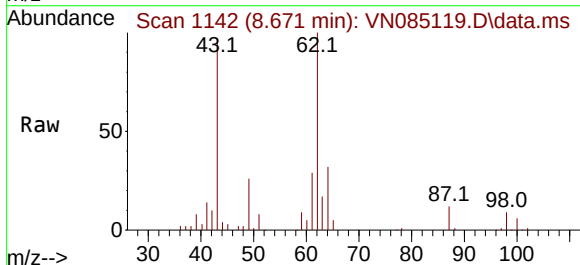
Ion	Ratio	Lower	Upper
41	100		
39	54.8	24.4	73.2
67	79.3	37.0	110.9
52	32.6	12.4	37.2

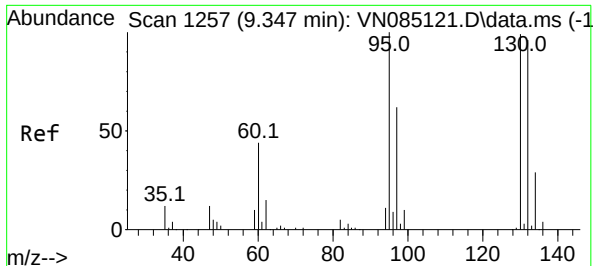


#36
1,2-Dichloroethane
Concen: 47.430 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 62 Resp: 138391

Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.3	10.9





#37

Trichloroethene

Concen: 47.426 ug/l

RT: 9.353 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

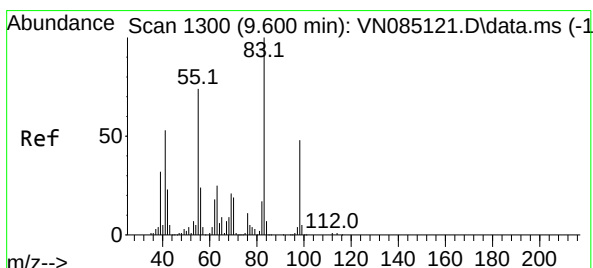
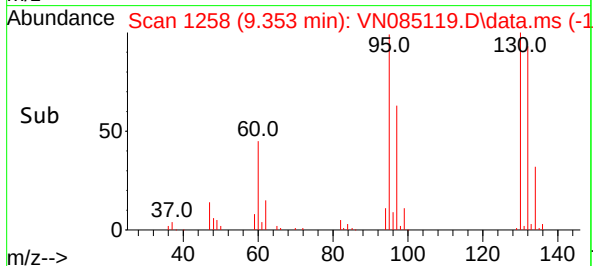
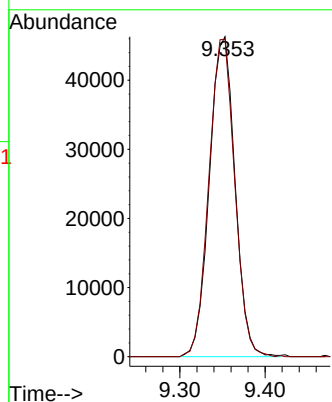
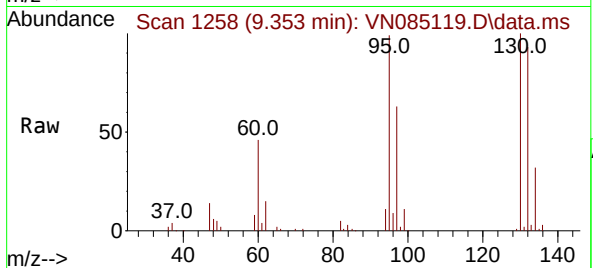
VSTDIC050

Tgt Ion:130 Resp: 96801

Ion Ratio Lower Upper

130 100

95 99.2 76.2 114.4



#38

Methylcyclohexane

Concen: 49.963 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

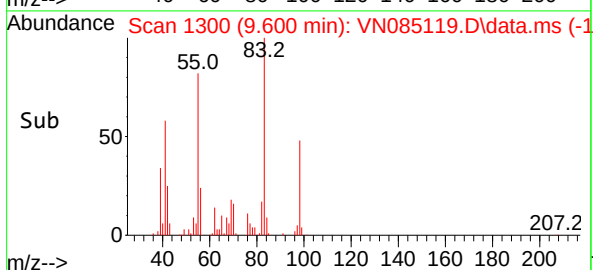
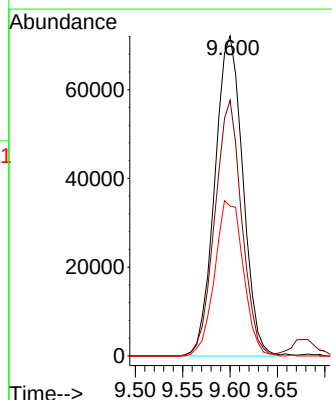
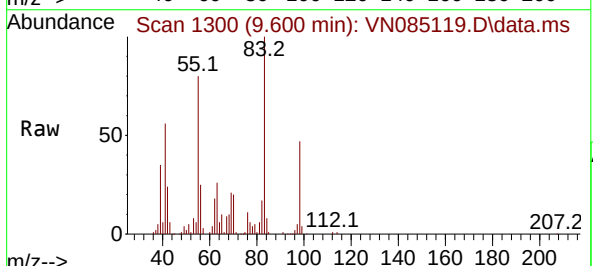
Tgt Ion: 83 Resp: 148222

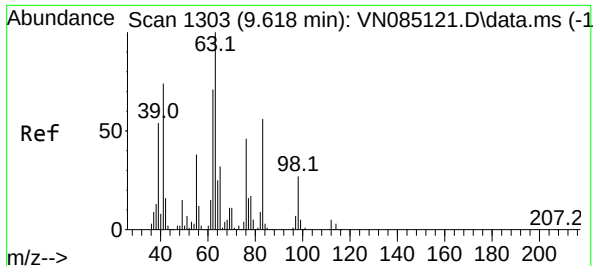
Ion Ratio Lower Upper

83 100

55 76.8 41.4 124.4

98 49.6 25.7 77.1





#39

1,2-Dichloropropane

Concen: 47.586 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

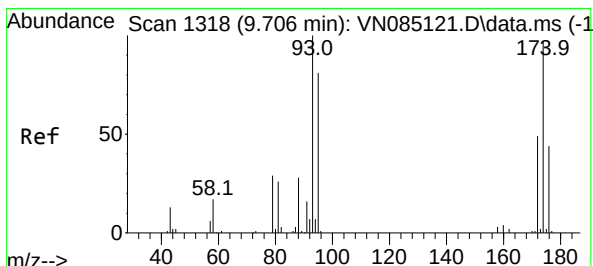
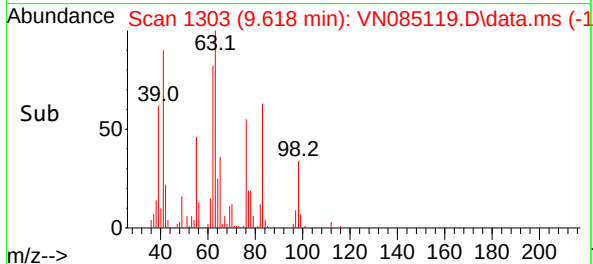
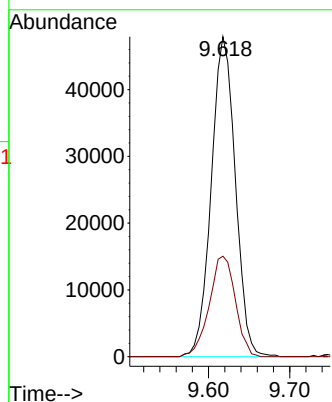
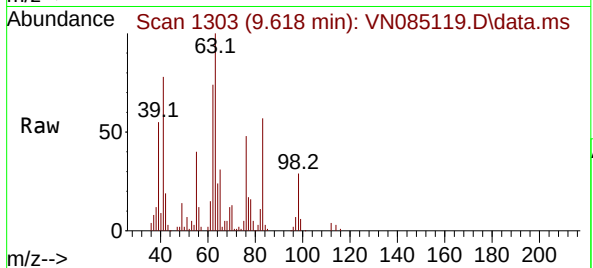
VSTDIC050

Tgt Ion: 63 Resp: 98790

Ion Ratio Lower Upper

63 100

65 31.4 23.4 35.0



#40

Dibromomethane

Concen: 47.969 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

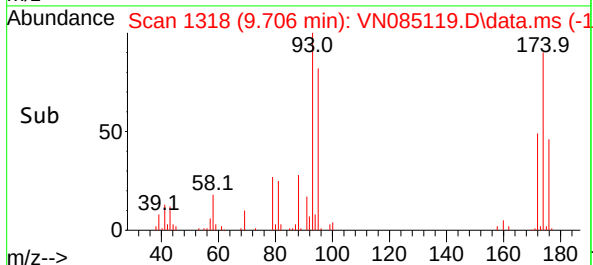
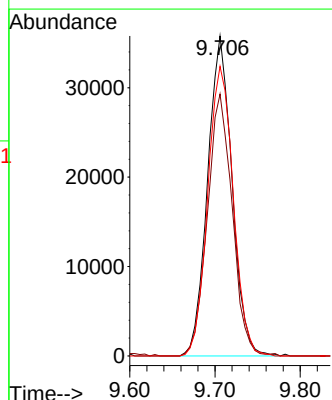
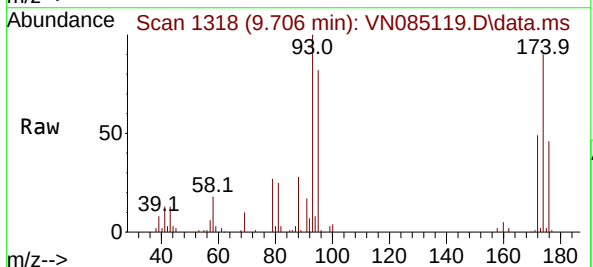
Tgt Ion: 93 Resp: 71433

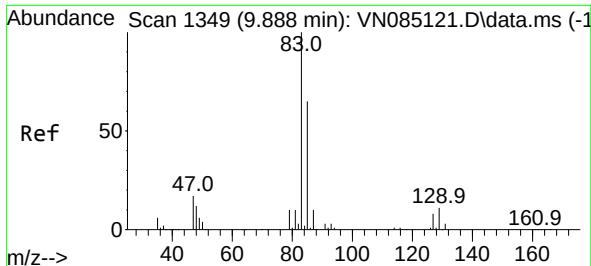
Ion Ratio Lower Upper

93 100

95 83.1 0.0 169.4

174 94.4 0.0 189.8

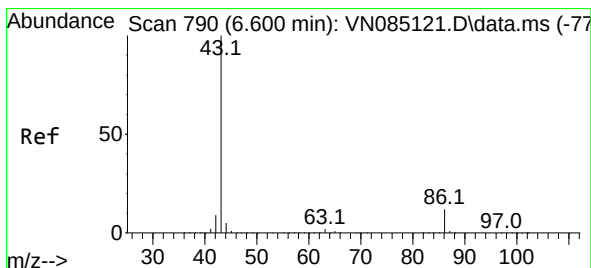
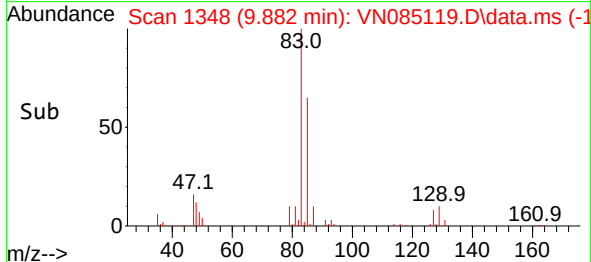
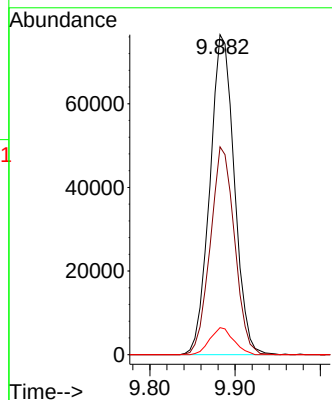
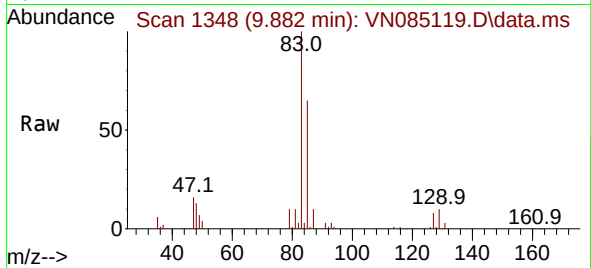




#41
Bromodichloromethane
Concen: 47.898 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

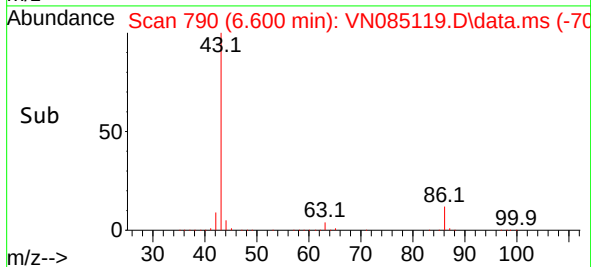
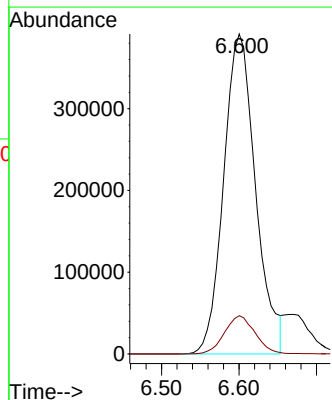
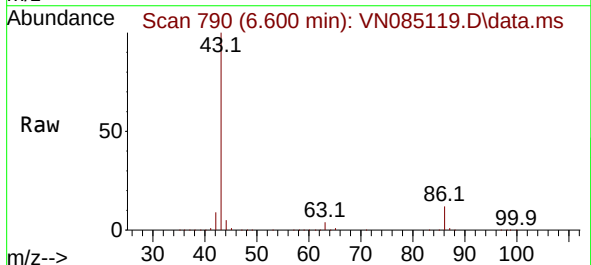
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

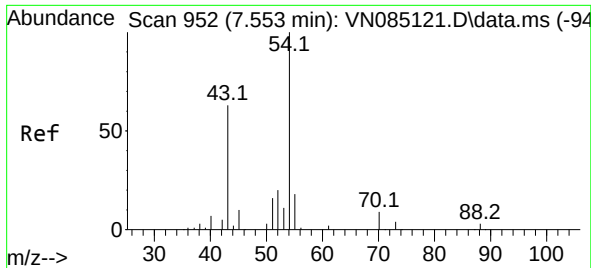
Tgt Ion: 83 Resp: 152481
Ion Ratio Lower Upper
83 100
85 65.0 54.6 81.8
127 8.5 7.0 10.6



#42
Vinyl Acetate
Concen: 256.138 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 43 Resp: 1122209
Ion Ratio Lower Upper
43 100
86 11.5 9.2 13.8

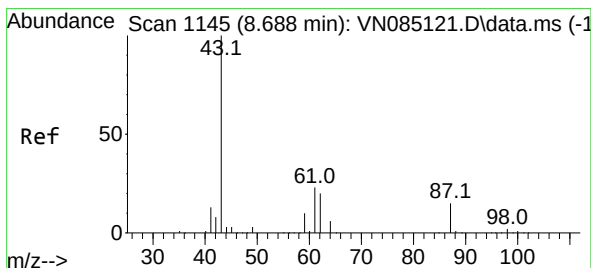
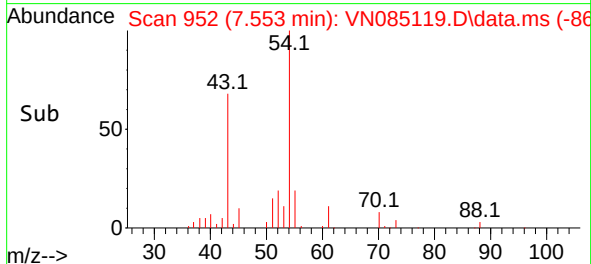
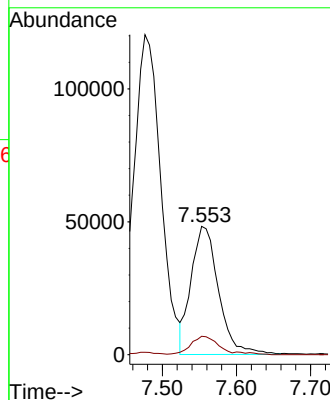
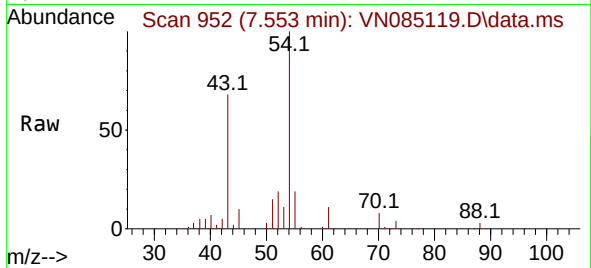




#43
Ethyl Acetate
Concen: 49.844 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

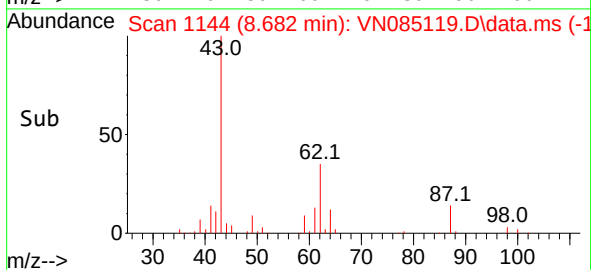
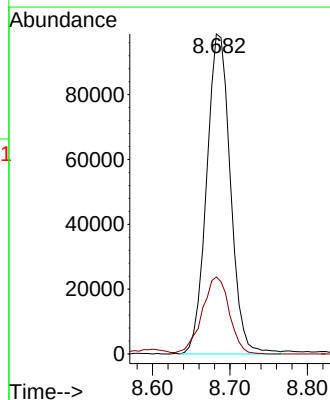
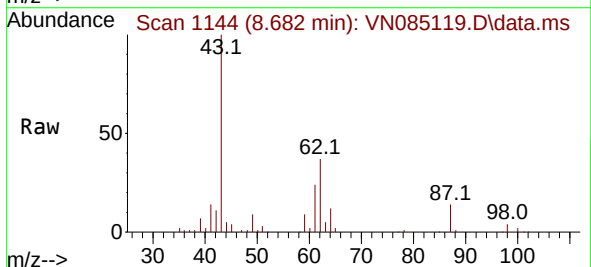
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

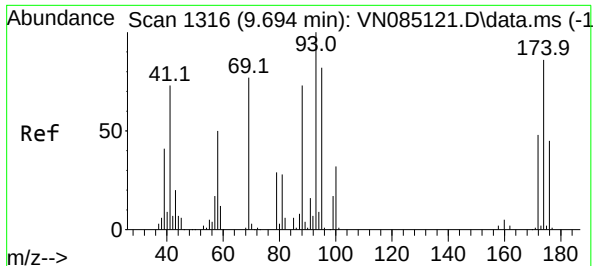
Tgt Ion: 43 Resp: 124173
Ion Ratio Lower Upper
43 100
45 13.1 13.3 19.9#



#44
Isopropyl Acetate
Concen: 48.782 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 43 Resp: 211189
Ion Ratio Lower Upper
43 100
61 27.4 21.5 32.3

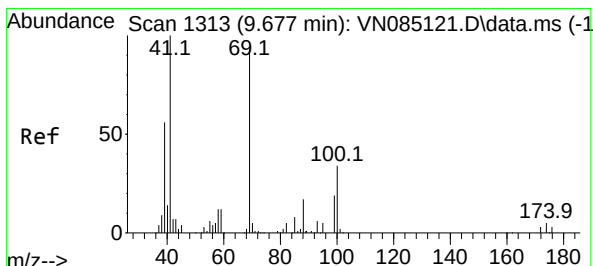
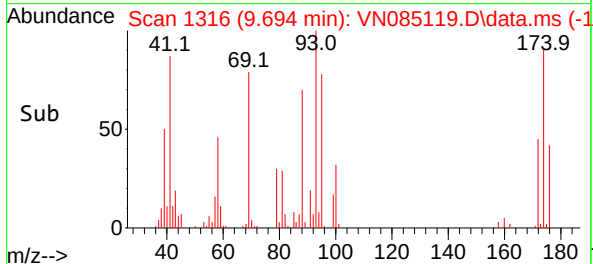
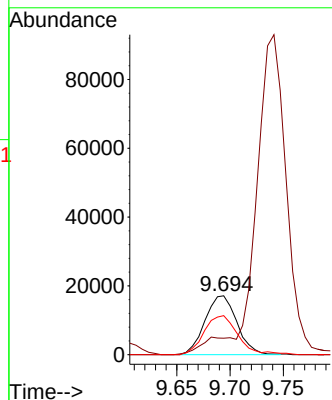
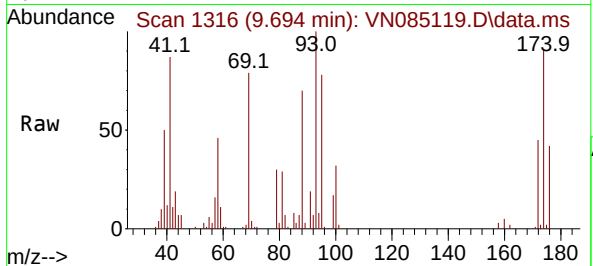




#45
1,4-Dioxane
Concen: 989.420 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

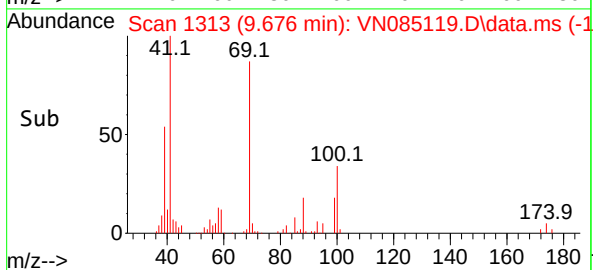
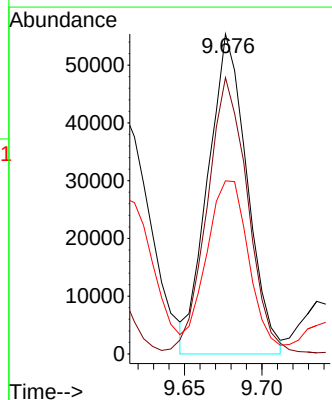
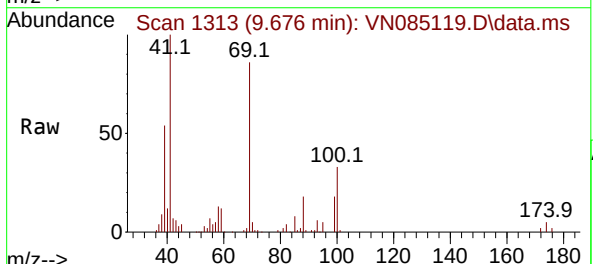
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

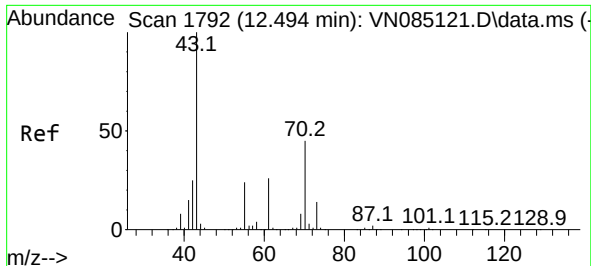
Tgt Ion: 88 Resp: 35720
Ion Ratio Lower Upper
88 100
43 22.5 21.7 32.5
58 68.0 52.6 79.0



#46
Methyl methacrylate
Concen: 49.158 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 41 Resp: 97397
Ion Ratio Lower Upper
41 100
69 86.6 46.7 140.0
39 53.6 28.5 85.5

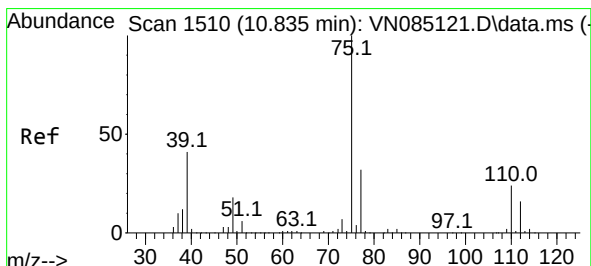
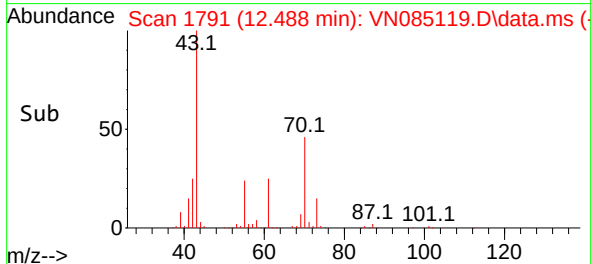
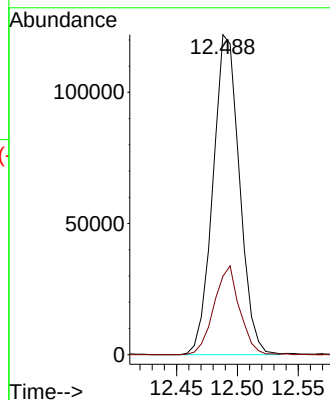
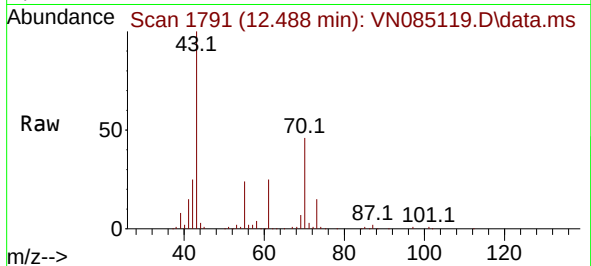




#47
n-amyl acetate
Concen: 50.788 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

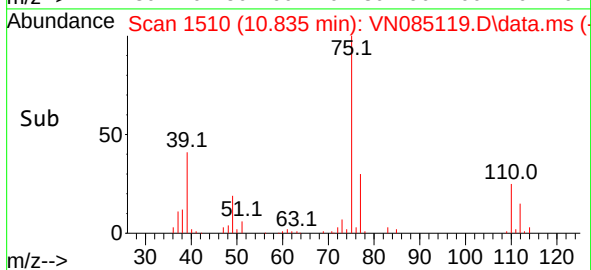
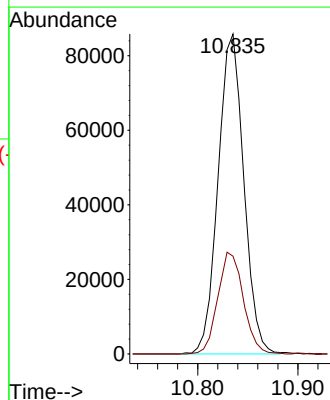
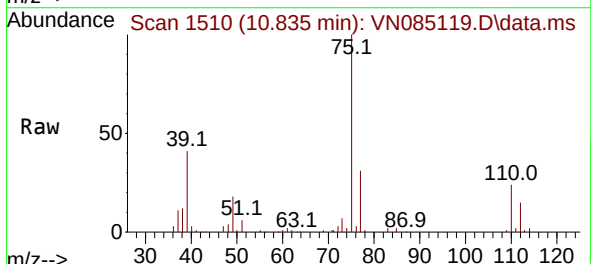
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

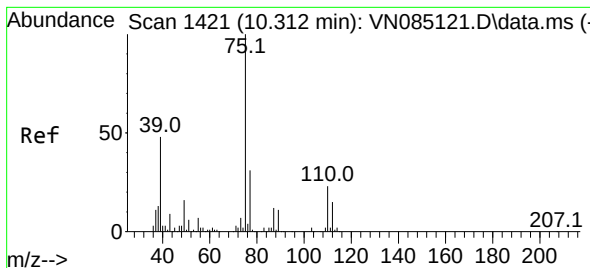
Tgt Ion: 43 Resp: 184994
Ion Ratio Lower Upper
43 100
55 26.6 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 48.801 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 75 Resp: 152504
Ion Ratio Lower Upper
75 100
77 30.5 25.5 38.3

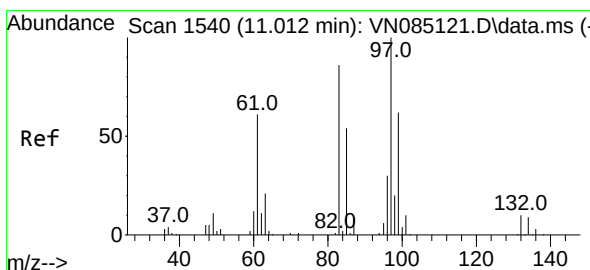
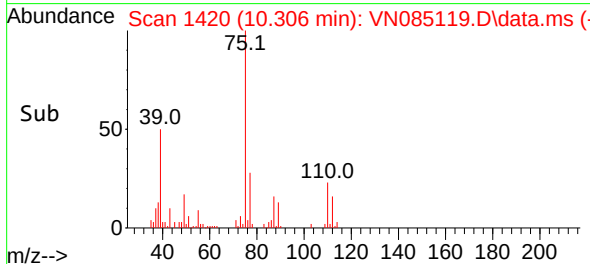
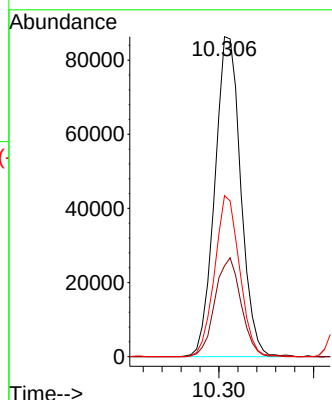
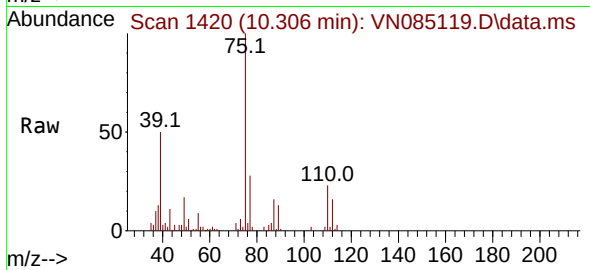




#49
 cis-1,3-Dichloropropene
 Concen: 48.292 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.006 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

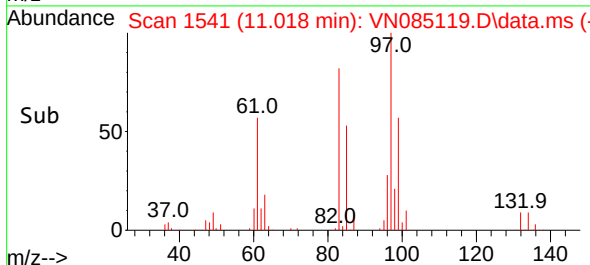
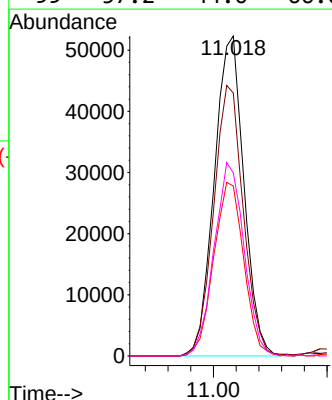
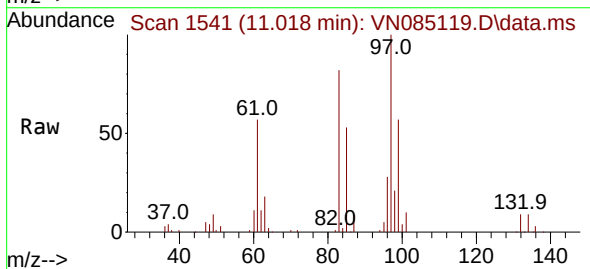
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

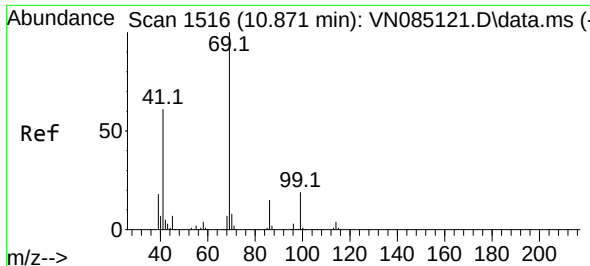
Tgt Ion: 75 Resp: 164287
 Ion Ratio Lower Upper
 75 100
 77 28.4 23.8 35.6
 39 50.3 37.3 55.9



#50
 1,1,2-Trichloroethane
 Concen: 47.189 ug/l
 RT: 11.018 min Scan# 1541
 Delta R.T. 0.006 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

Tgt Ion: 97 Resp: 94692
 Ion Ratio Lower Upper
 97 100
 83 82.1 65.8 98.8
 85 53.1 40.8 61.2
 99 57.2 44.0 66.0

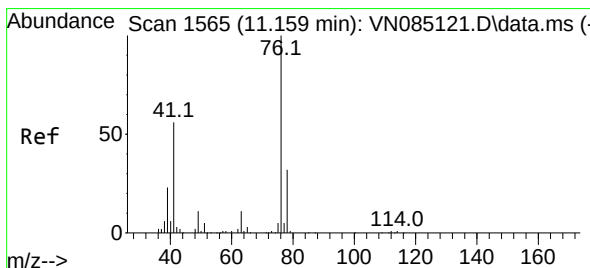
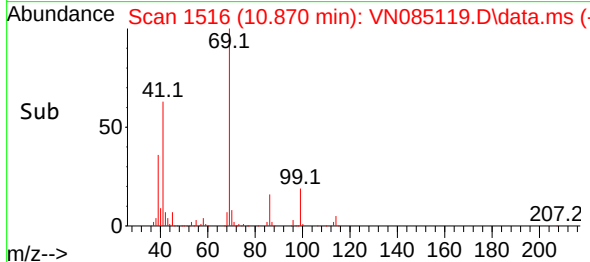
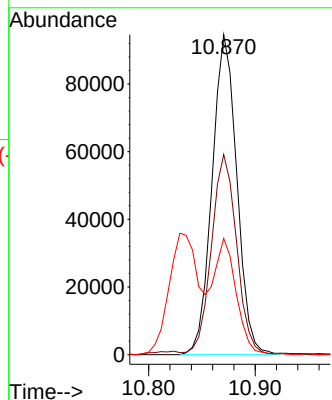
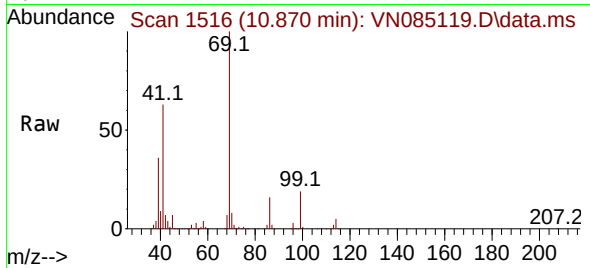




#51
Ethyl methacrylate
Concen: 50.057 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

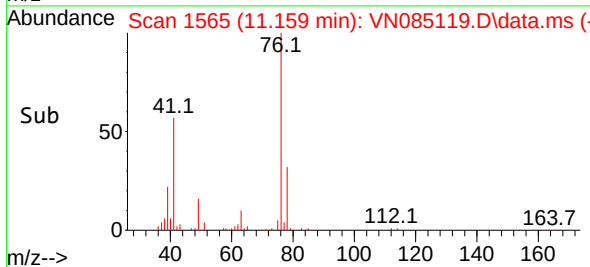
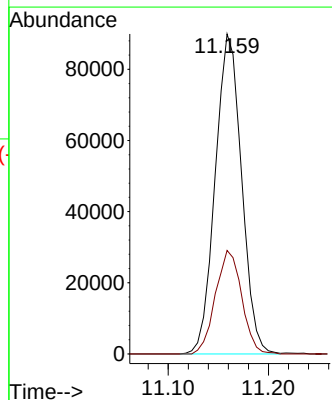
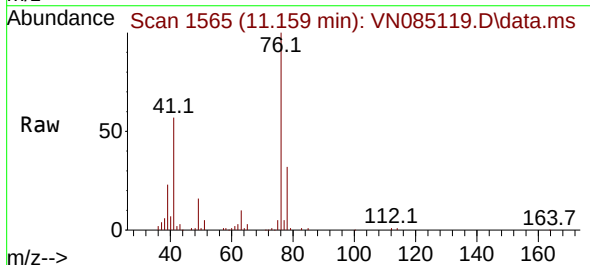
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

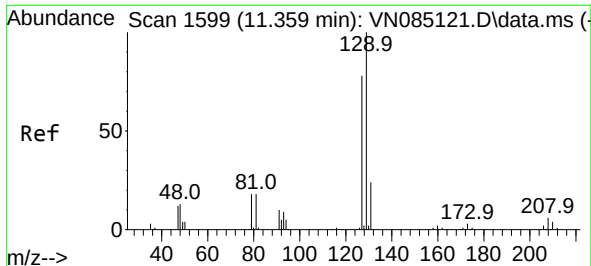
Tgt Ion: 69 Resp: 152776
Ion Ratio Lower Upper
69 100
41 62.1 32.1 96.3
39 36.0 18.8 56.4



#52
1,3-Dichloropropane
Concen: 48.874 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 76 Resp: 164130
Ion Ratio Lower Upper
76 100
78 32.2 0.0 65.6

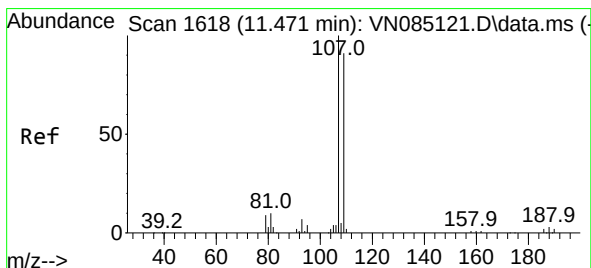
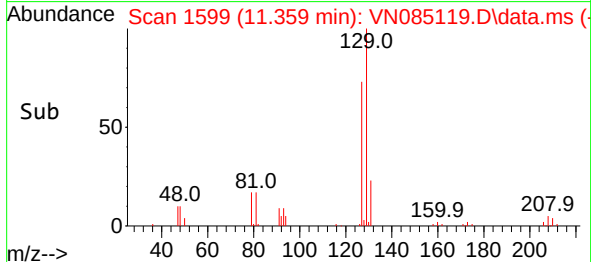
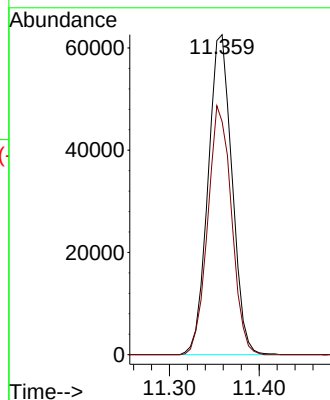
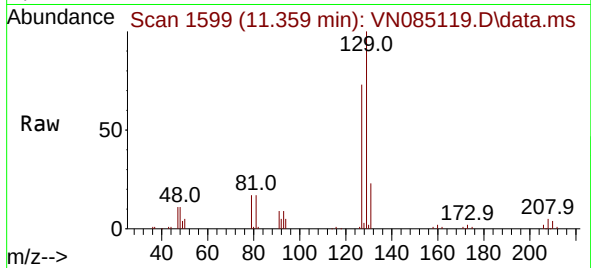




#53
Dibromochloromethane
Concen: 47.550 ug/l
RT: 11.359 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

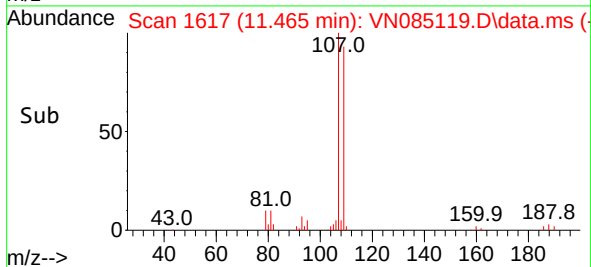
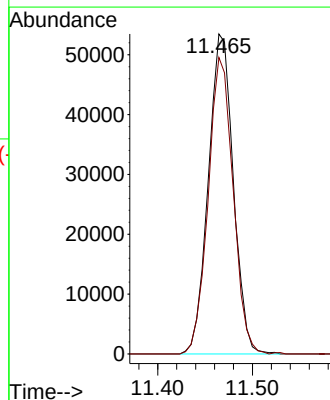
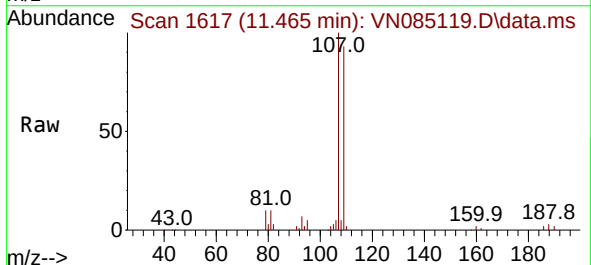
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

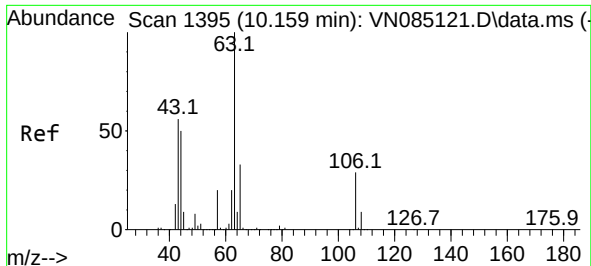
Tgt Ion:129 Resp: 116277
Ion Ratio Lower Upper
129 100
127 76.9 37.3 111.9



#54
1,2-Dibromoethane
Concen: 48.496 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:107 Resp: 98049
Ion Ratio Lower Upper
107 100
109 92.2 75.2 112.8

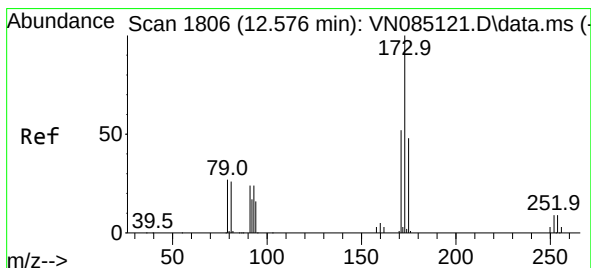
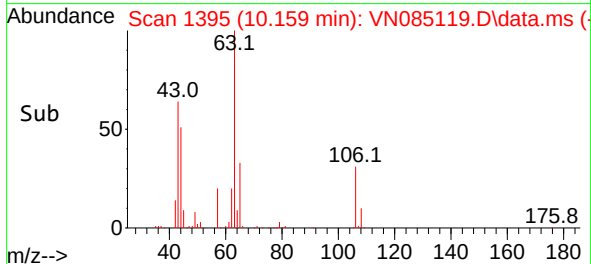
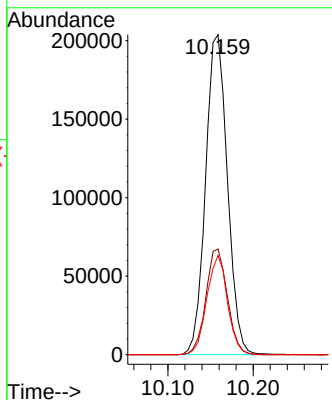
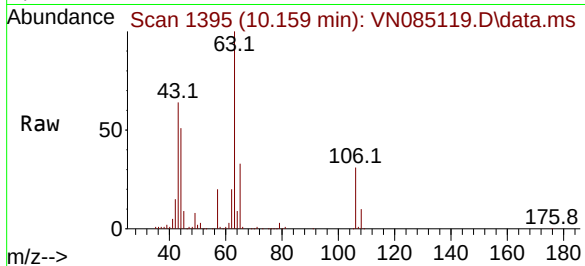




#55
2-Chloroethyl vinyl ether
Concen: 256.062 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

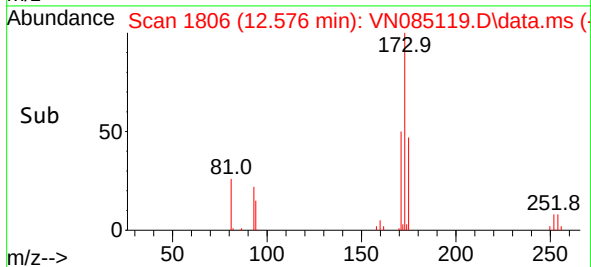
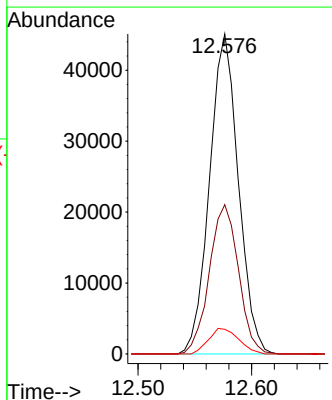
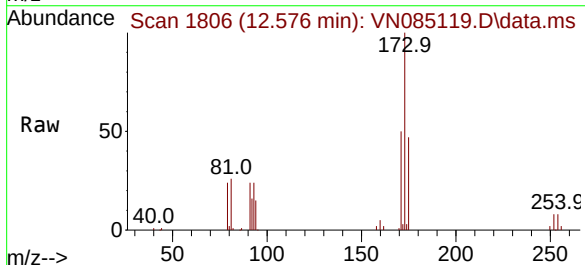
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

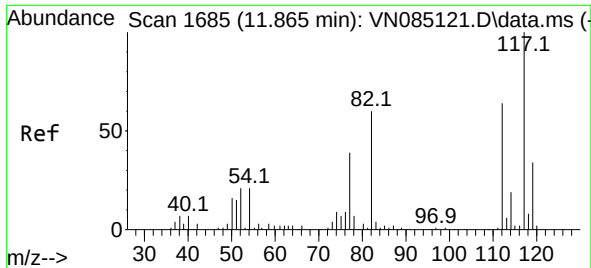
Tgt Ion: 63 Resp: 363042
Ion Ratio Lower Upper
63 100
65 32.5 25.9 38.9
106 29.3 23.5 35.3



#56
Bromoform
Concen: 48.542 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 173 Resp: 79589
Ion Ratio Lower Upper
173 100
175 47.1 40.2 60.2
254 8.3 6.2 9.4

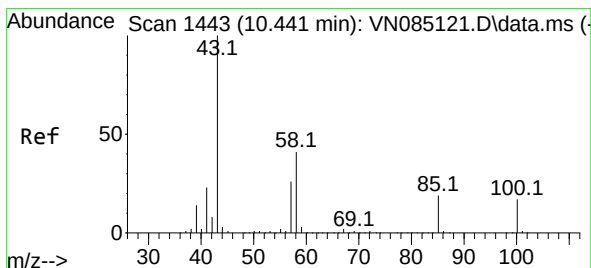
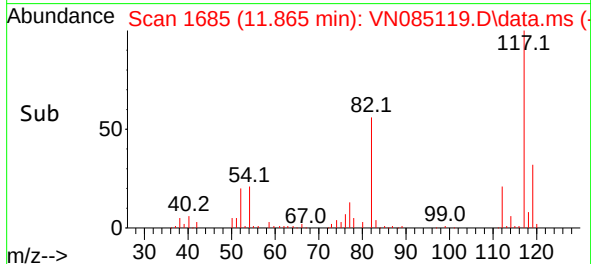
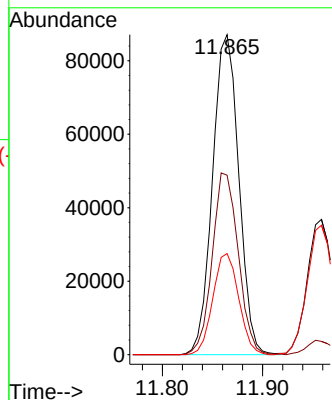
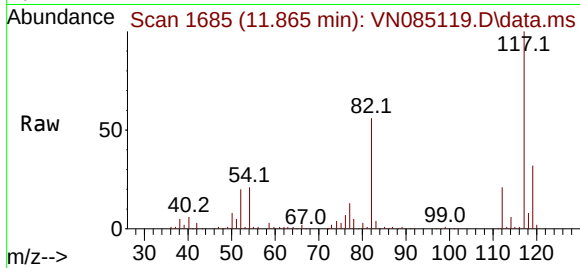




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

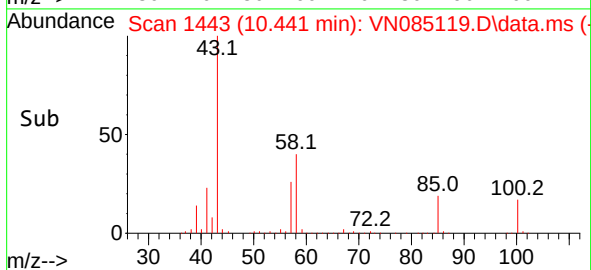
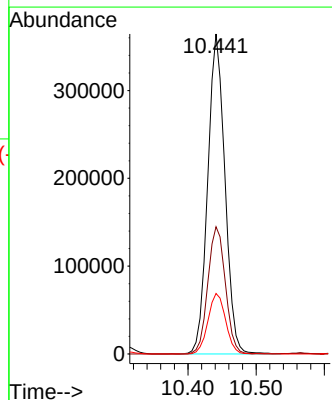
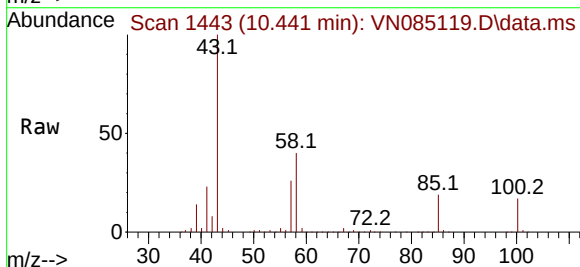
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

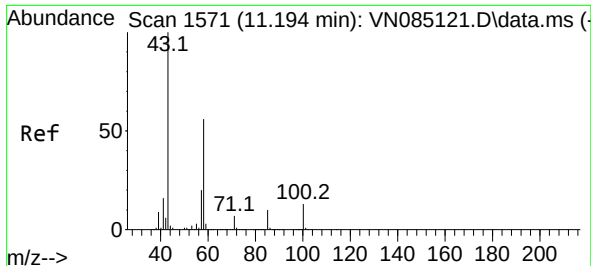
Tgt Ion:117 Resp: 158595
Ion Ratio Lower Upper
117 100
82 56.4 44.2 66.4
119 31.1 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 246.869 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 43 Resp: 638976
Ion Ratio Lower Upper
43 100
58 40.6 31.6 47.4
85 19.4 15.0 22.6

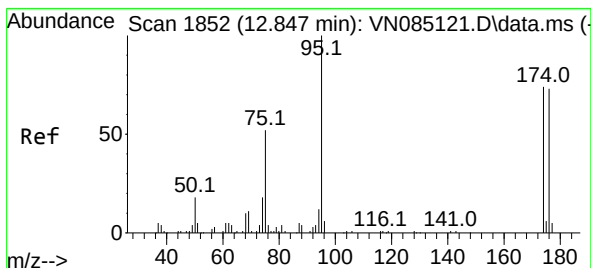
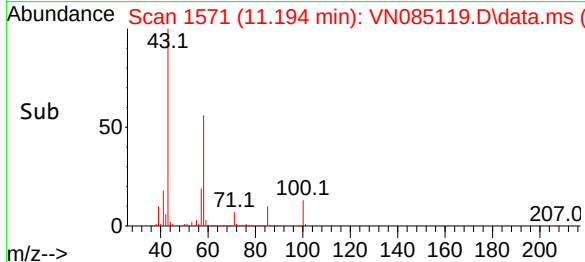
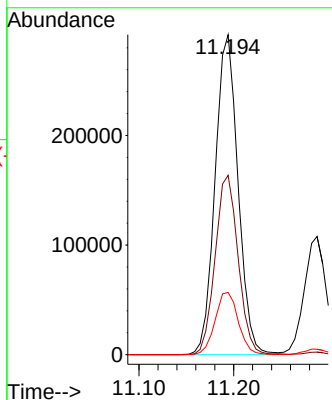
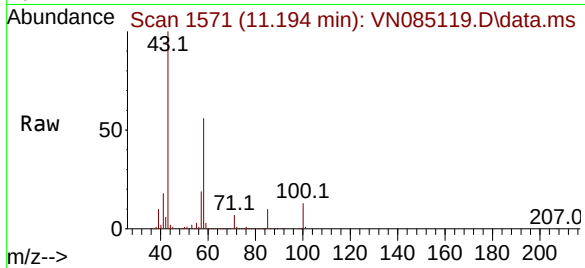




#59
2-Hexanone
Concen: 250.312 ug/l
RT: 11.194 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

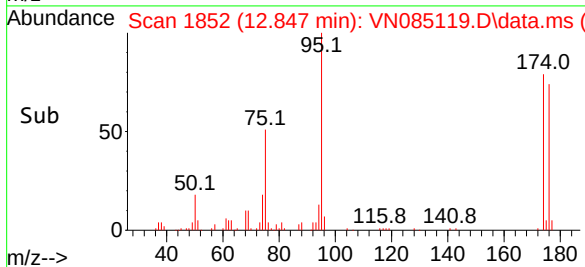
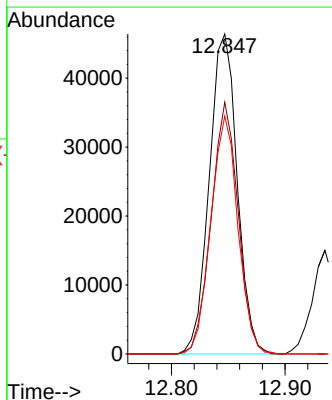
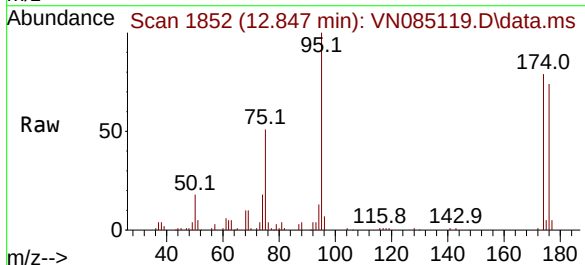
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

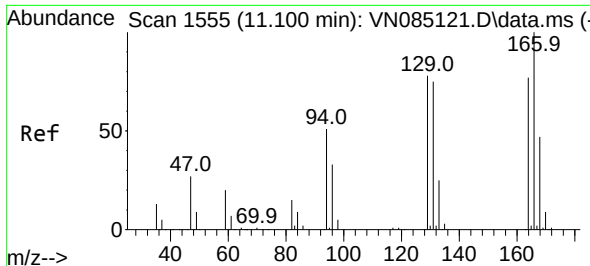
Tgt Ion: 43 Resp: 490910
Ion Ratio Lower Upper
43 100
58 56.1 43.6 65.4
57 19.8 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 30.193 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 95 Resp: 79229
Ion Ratio Lower Upper
95 100
174 75.6 60.3 90.5
176 72.5 57.4 86.0

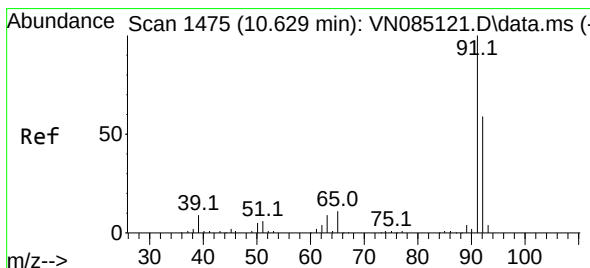
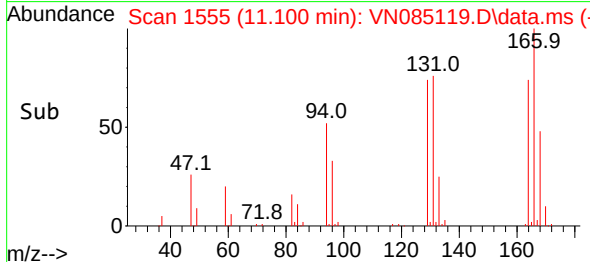
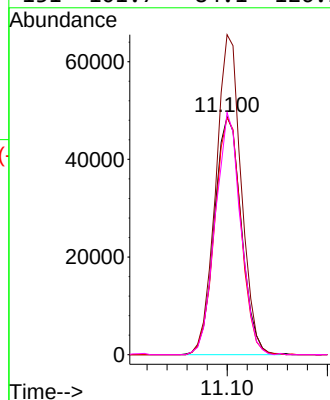
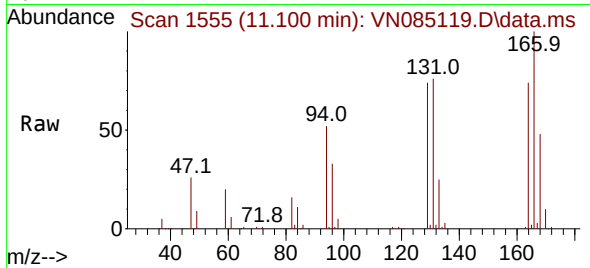




#61
Tetrachloroethene
Concen: 47.078 ug/l
RT: 11.100 min Scan# 1155
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

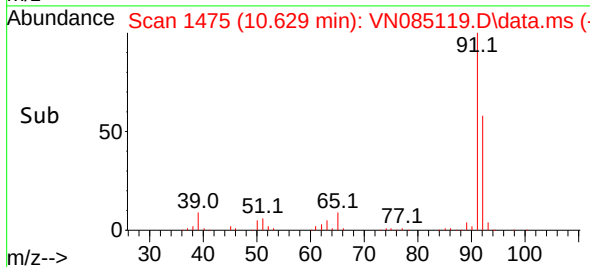
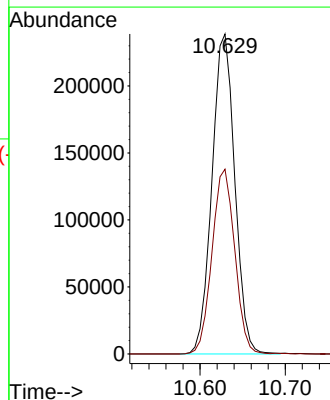
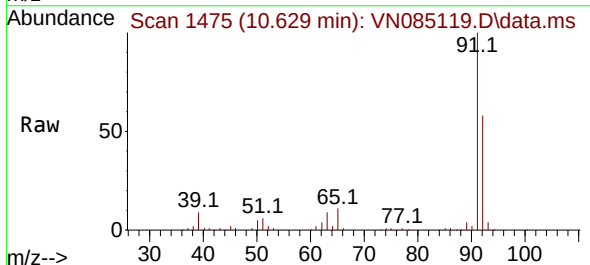
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

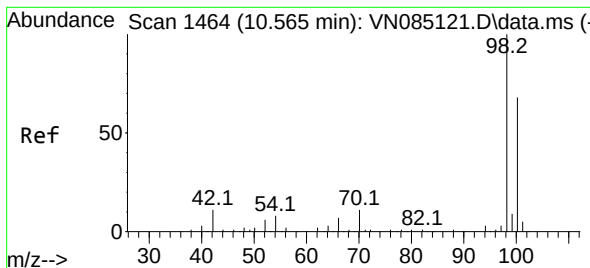
Tgt Ion:164 Resp: 90418
Ion Ratio Lower Upper
164 100
166 134.5 103.8 155.8
129 99.6 84.2 126.4
131 101.7 84.1 126.1



#62
Toluene
Concen: 48.023 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 91 Resp: 444180
Ion Ratio Lower Upper
91 100
92 57.6 46.5 69.7





#63

Toluene-d8

Concen: 29.668 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

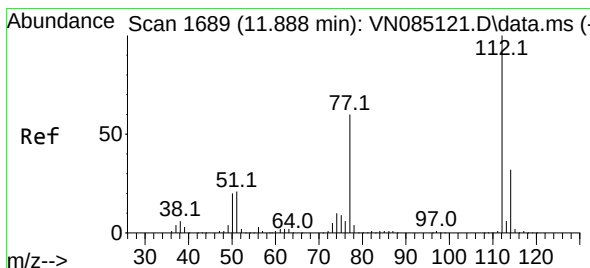
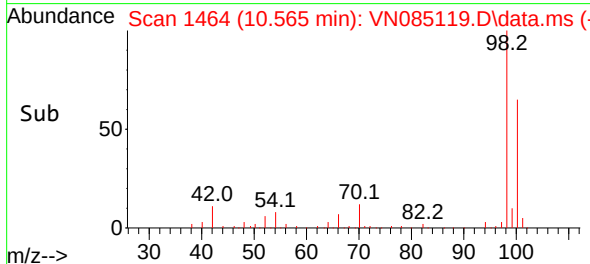
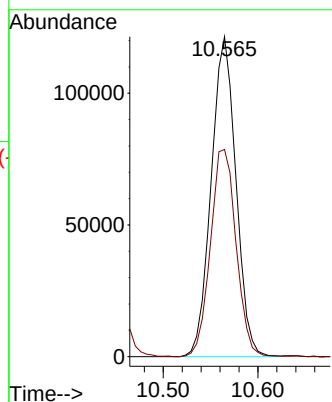
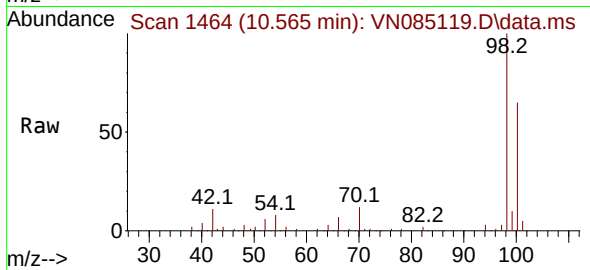
VSTDIC050

Tgt Ion: 98 Resp: 220709

Ion Ratio Lower Upper

98 100

100 67.2 52.0 78.0



#64

Chlorobenzene

Concen: 48.008 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085119.D

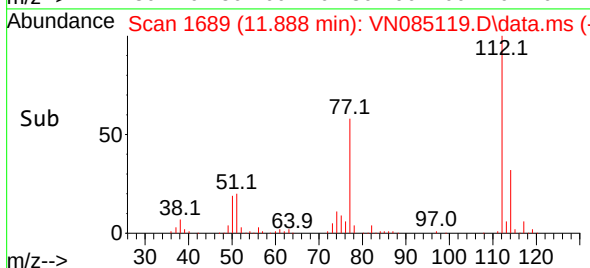
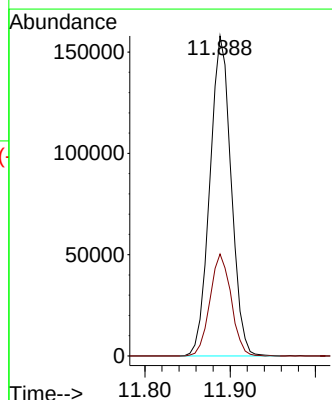
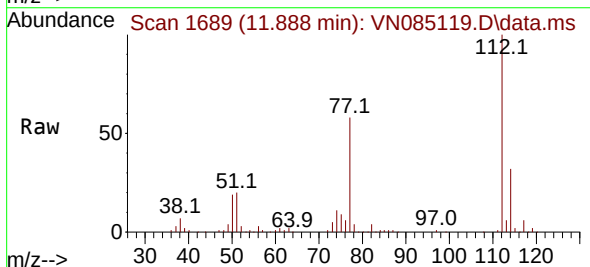
Acq: 06 Dec 2024 10:49

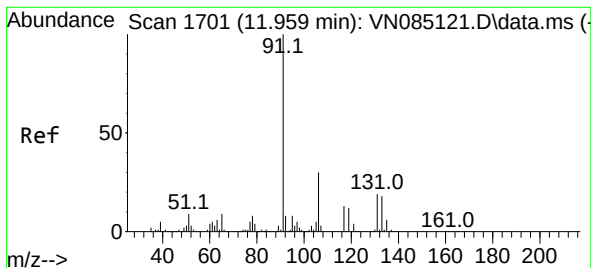
Tgt Ion: 112 Resp: 274152

Ion Ratio Lower Upper

112 100

114 31.9 26.0 39.0

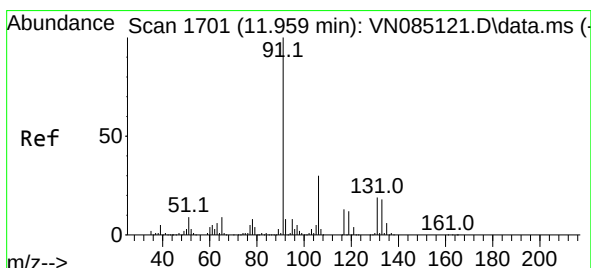
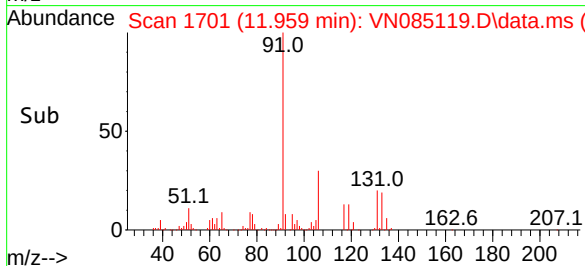
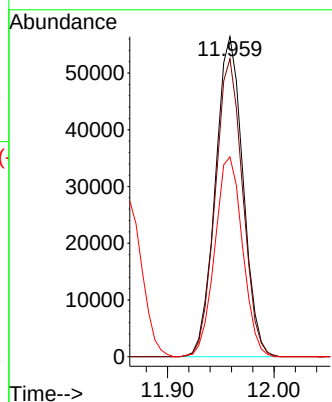
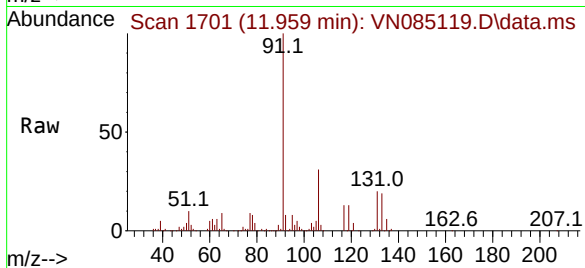




#65
1,1,1,2-Tetrachloroethane
Concen: 47.641 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

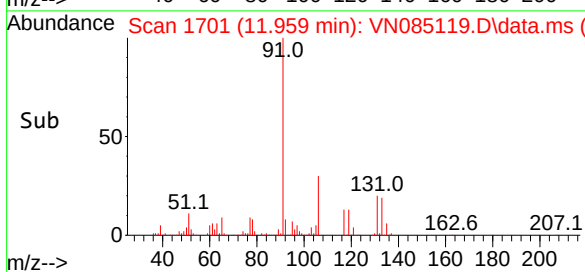
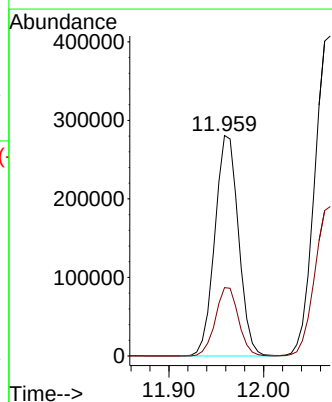
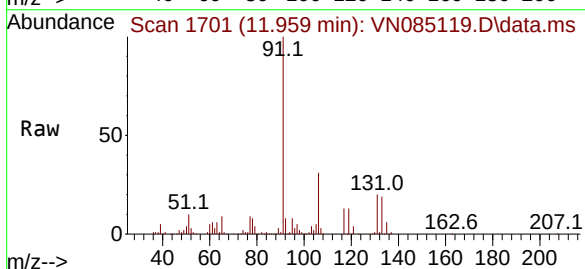
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

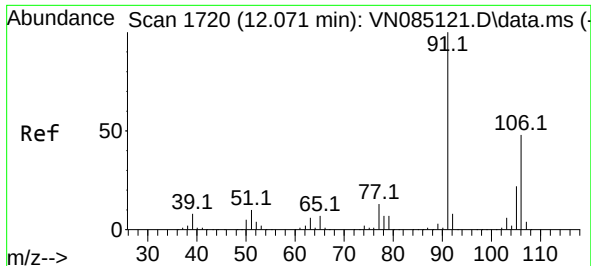
Tgt Ion:131 Resp: 101559
Ion Ratio Lower Upper
131 100
133 92.3 0.0 194.0
119 62.7 0.0 131.8



#66
Ethyl Benzene
Concen: 49.682 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 91 Resp: 487612
Ion Ratio Lower Upper
91 100
106 31.0 23.1 34.7

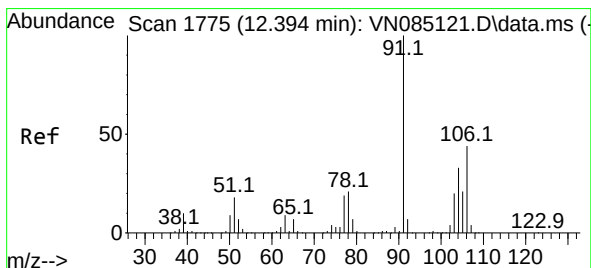
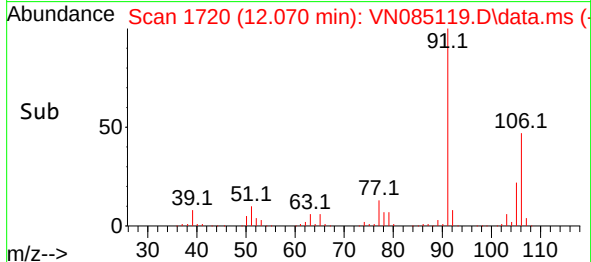
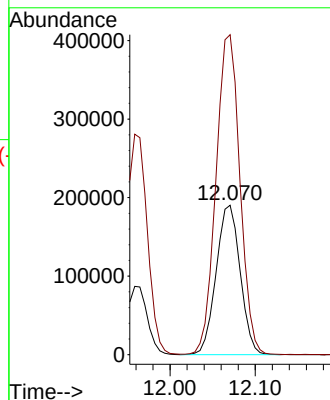
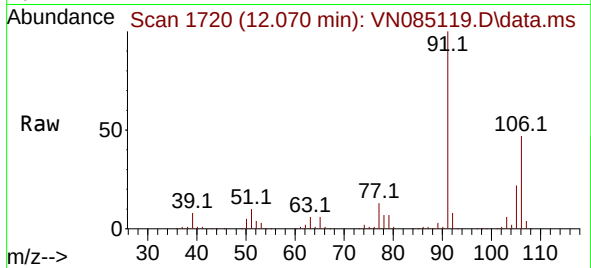




#67
m/p-Xylenes
Concen: 98.889 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

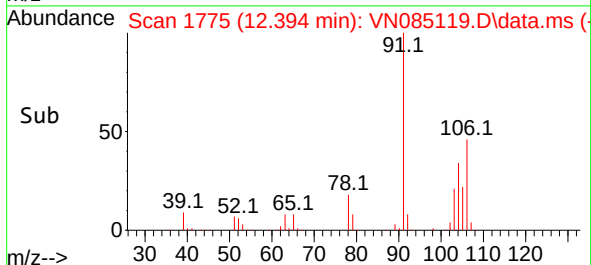
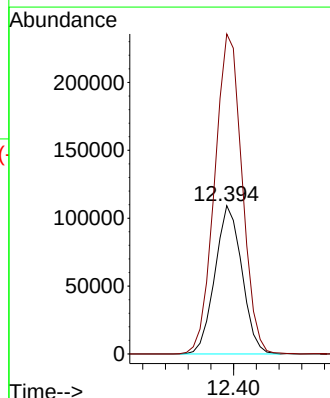
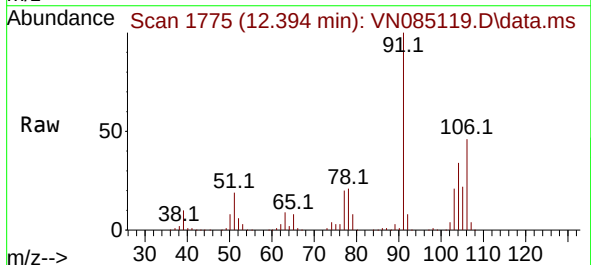
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

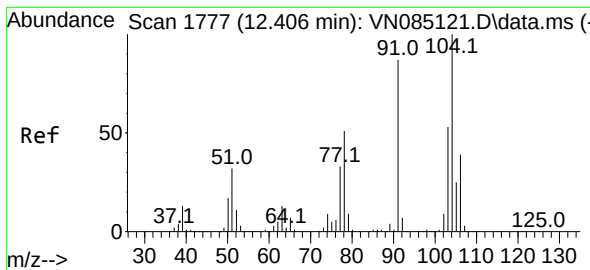
Tgt Ion:106 Resp: 373298
Ion Ratio Lower Upper
106 100
91 213.6 165.0 247.4



#68
o-Xylene
Concen: 50.744 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:106 Resp: 179899
Ion Ratio Lower Upper
106 100
91 220.0 112.1 336.4





#69

Styrene

Concen: 51.151 ug/l

RT: 12.406 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

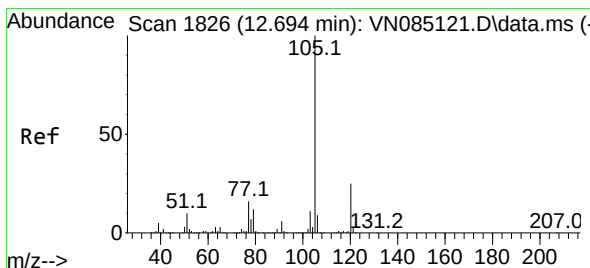
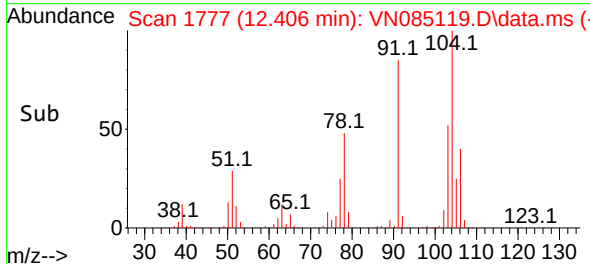
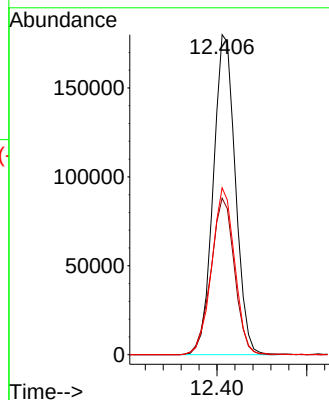
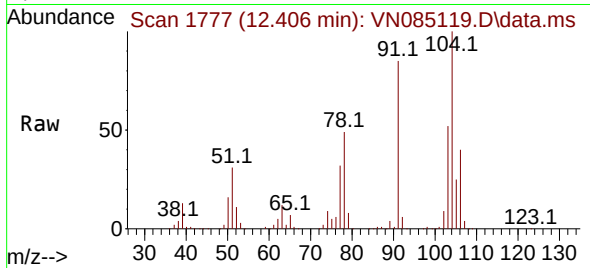
Tgt Ion:104 Resp: 307715

Ion Ratio Lower Upper

104 100

78 52.0 42.3 63.5

103 54.0 44.4 66.6



#70

Isopropylbenzene

Concen: 50.502 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085119.D

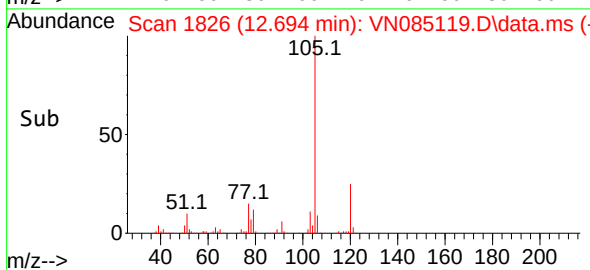
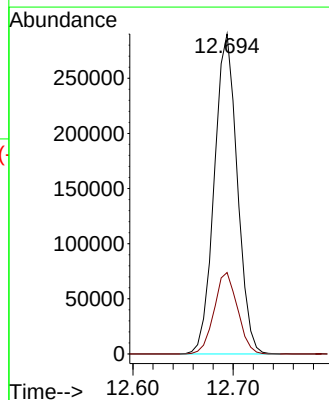
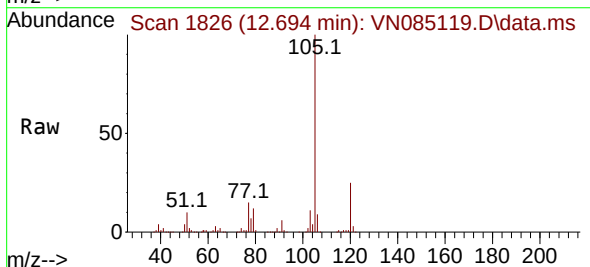
Acq: 06 Dec 2024 10:49

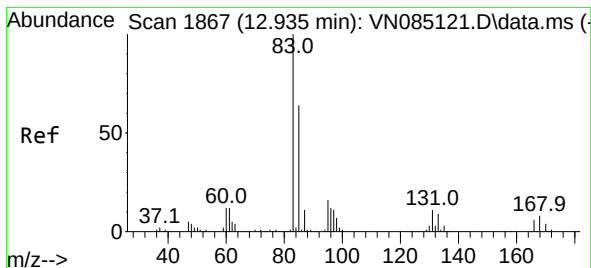
Tgt Ion:105 Resp: 461786

Ion Ratio Lower Upper

105 100

120 25.8 18.3 33.9





#71

1,1,2,2-Tetrachloroethane

Concen: 47.759 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

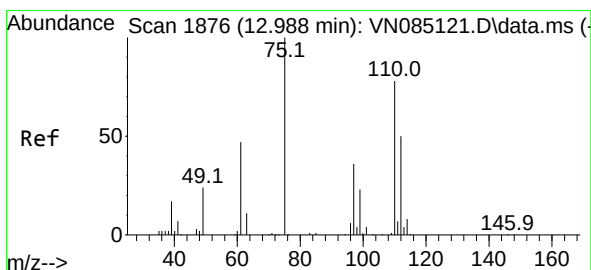
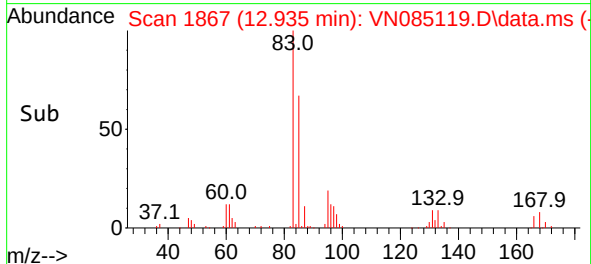
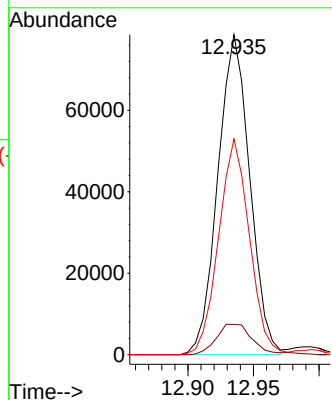
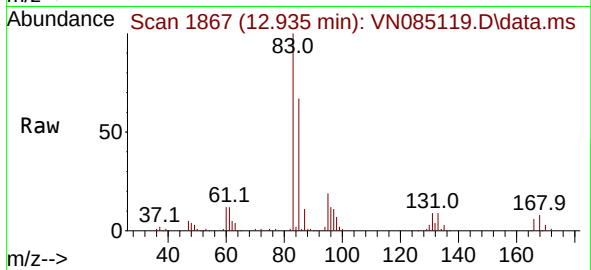
Tgt Ion: 83 Resp: 132922

Ion Ratio Lower Upper

83 100

131 10.6 5.1 15.3

85 65.1 31.1 93.5



#72

1,2,3-Trichloropropane

Concen: 64.314 ug/l

RT: 12.988 min Scan# 1876

Delta R.T. -0.006 min

Lab File: VN085119.D

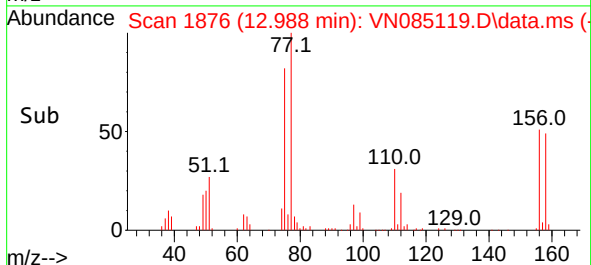
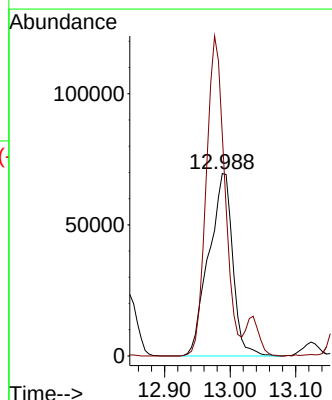
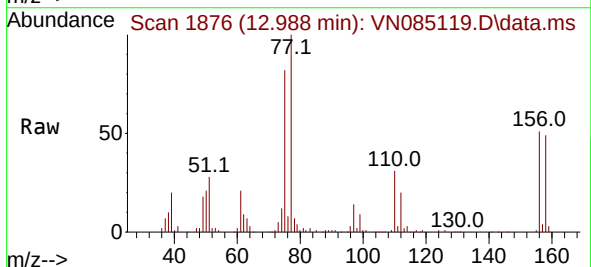
Acq: 06 Dec 2024 10:49

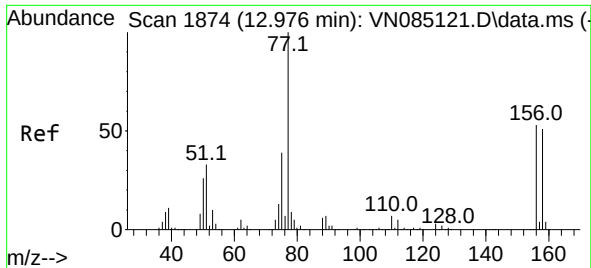
Tgt Ion: 75 Resp: 176818

Ion Ratio Lower Upper

75 100

77 136.3 0.0 339.0

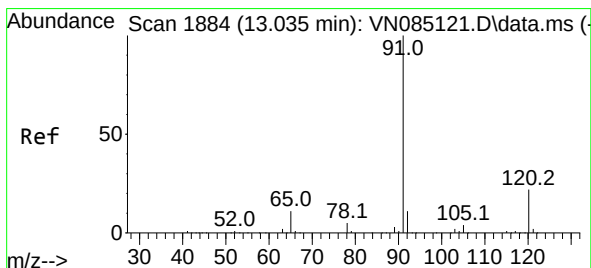
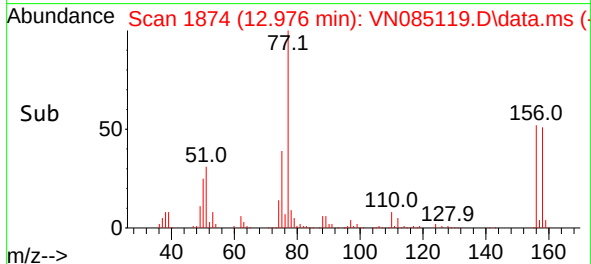
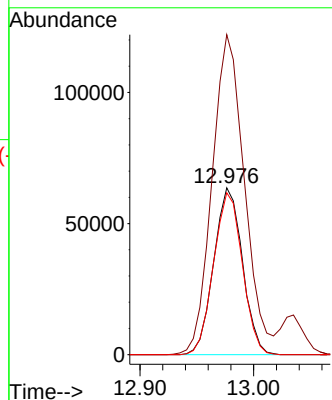
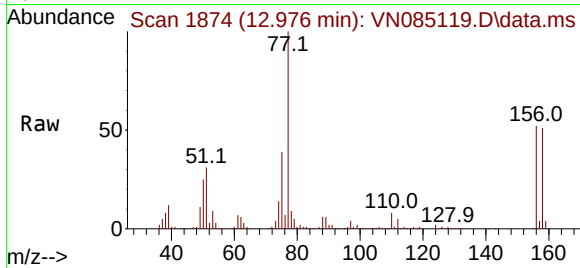




#73
Bromobenzene
Concen: 48.711 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

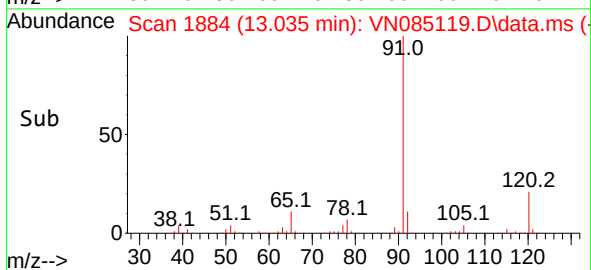
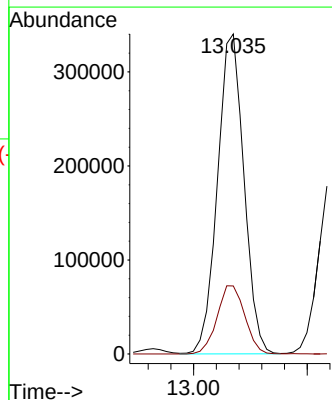
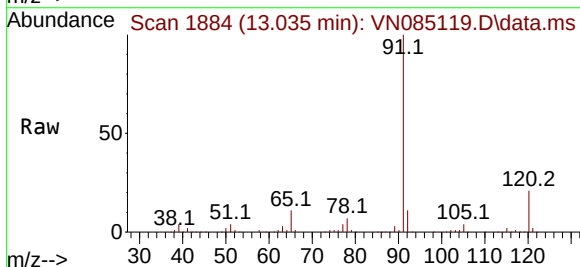
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

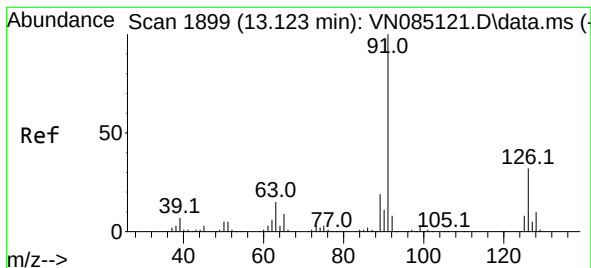
Tgt Ion:156 Resp: 111567
Ion Ratio Lower Upper
156 100
77 216.1 0.0 430.4
158 97.2 0.0 195.2



#74
n-propylbenzene
Concen: 50.065 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 91 Resp: 550361
Ion Ratio Lower Upper
91 100
120 22.3 0.0 44.0

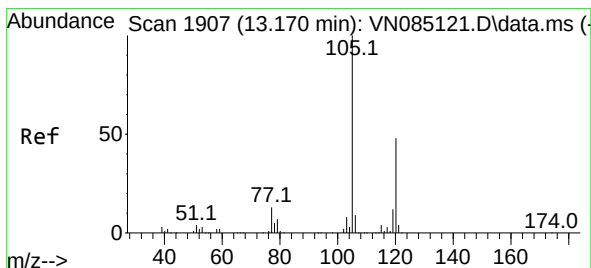
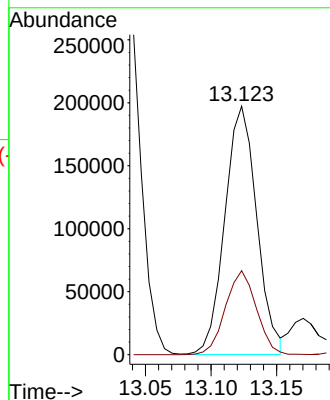
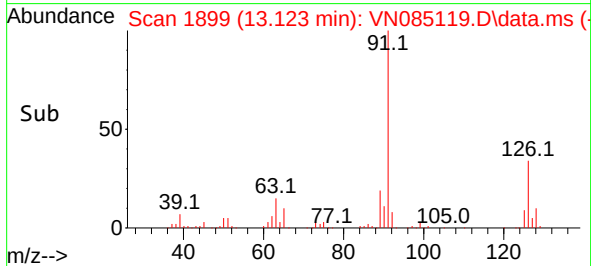
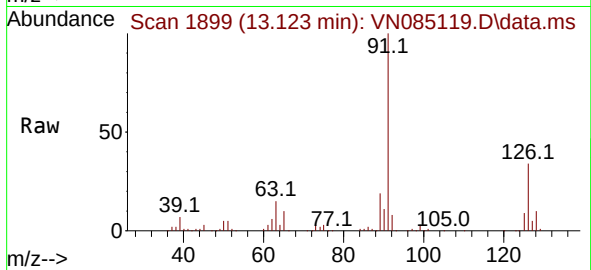




#75
2-Chlorotoluene
Concen: 49.227 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

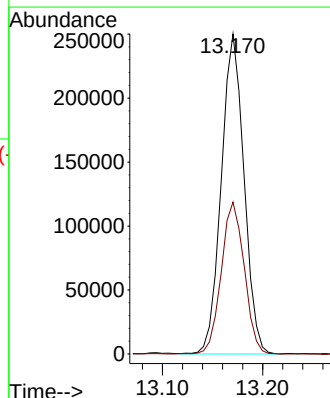
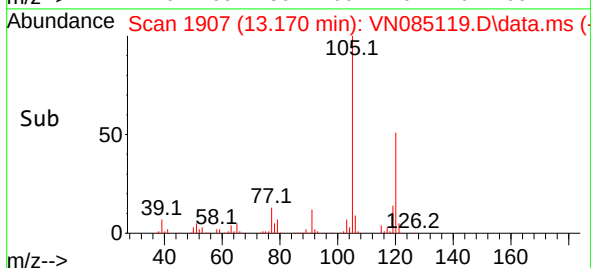
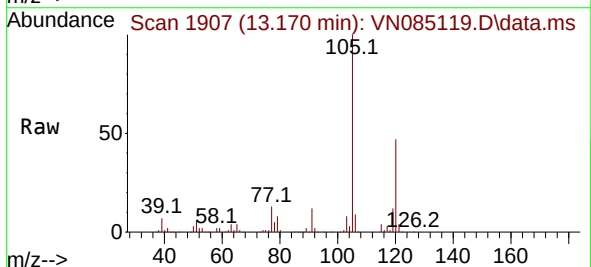
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

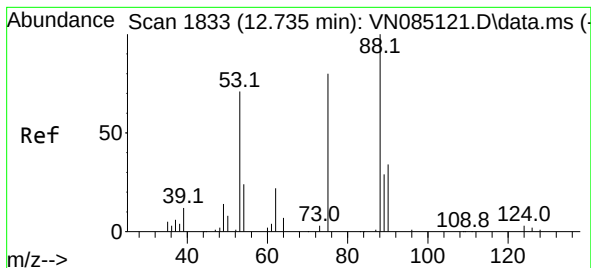
Tgt Ion: 91 Resp: 334590
Ion Ratio Lower Upper
91 100
126 32.6 0.0 64.2



#76
1,3,5-Trimethylbenzene
Concen: 50.202 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 105 Resp: 393277
Ion Ratio Lower Upper
105 100
120 47.9 0.0 94.4

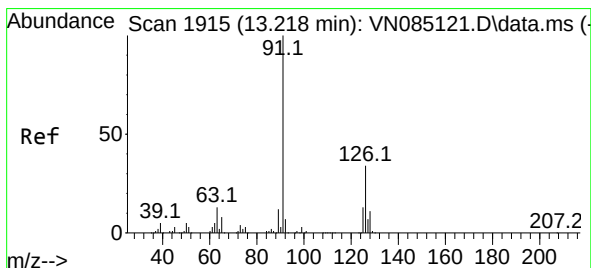
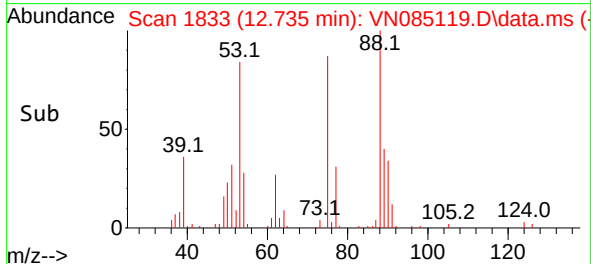
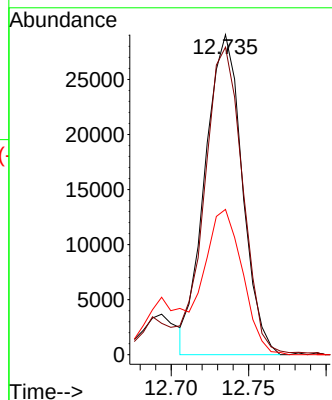
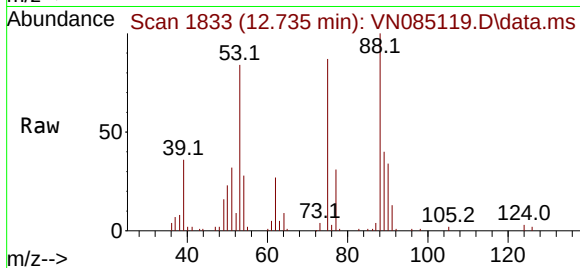




#77
t-1,4-Dichloro-2-butene
Concen: 48.553 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

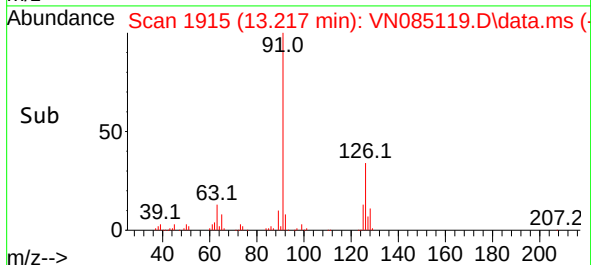
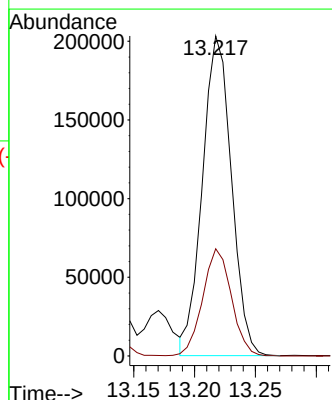
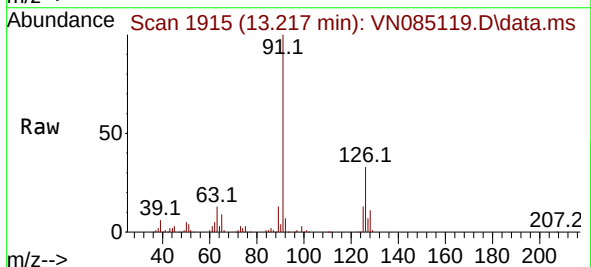
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

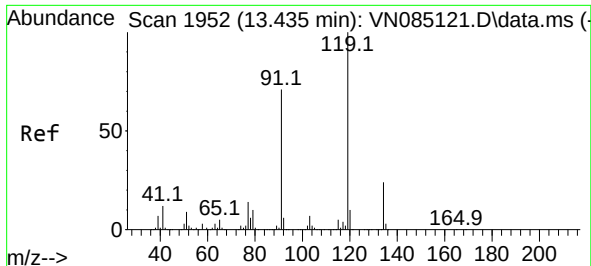
Tgt Ion: 75 Resp: 48505
Ion Ratio Lower Upper
75 100
53 95.0 49.1 147.3
89 44.7 22.9 68.5



#78
4-Chlorotoluene
Concen: 48.823 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 91 Resp: 336818
Ion Ratio Lower Upper
91 100
126 33.2 0.0 64.4

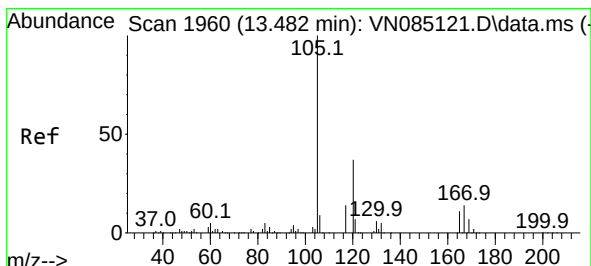
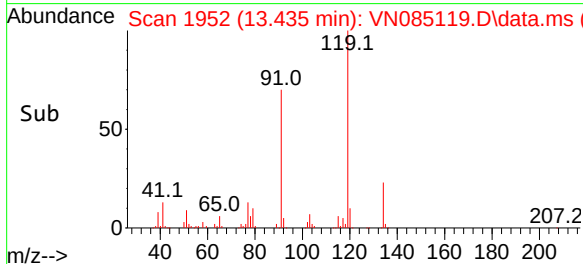
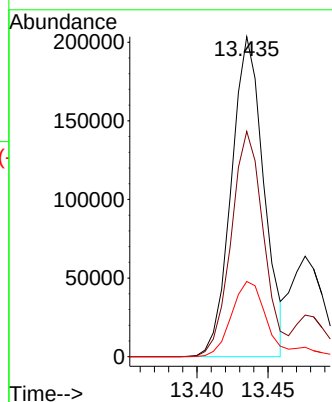
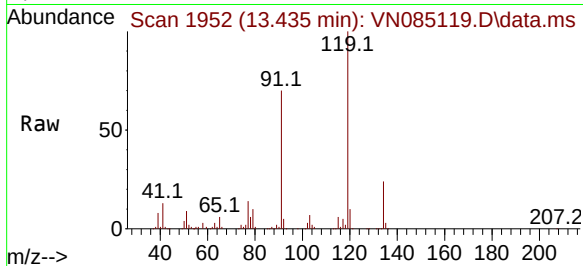




#79
tert-butylbenzene
Concen: 50.365 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

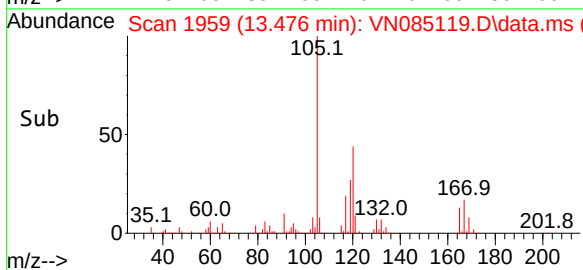
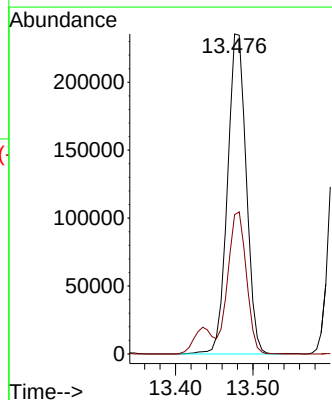
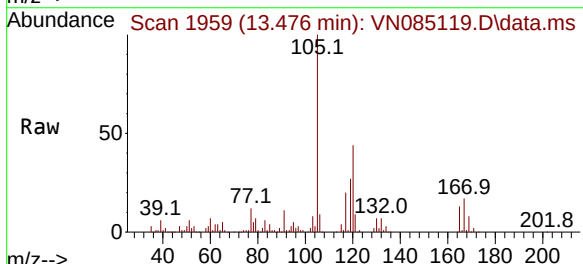
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

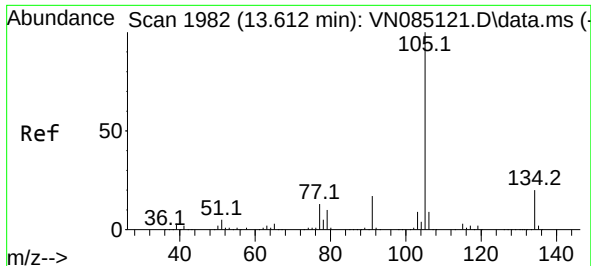
Tgt Ion:119 Resp: 324073
Ion Ratio Lower Upper
119 100
91 70.8 0.0 139.2
134 24.6 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 51.207 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:105 Resp: 396249
Ion Ratio Lower Upper
105 100
120 43.6 0.0 87.4

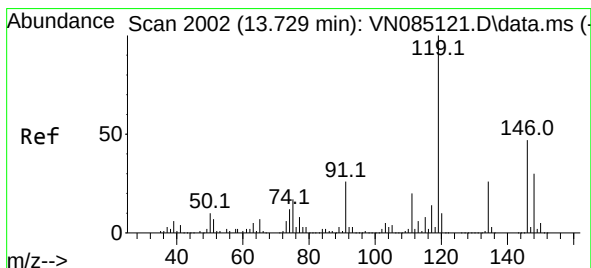
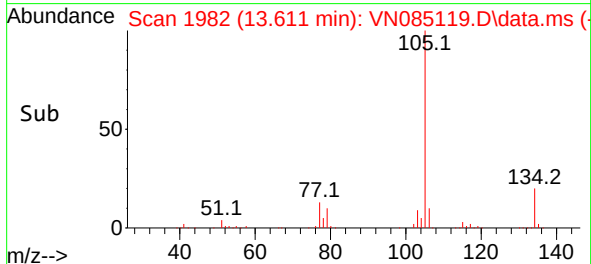
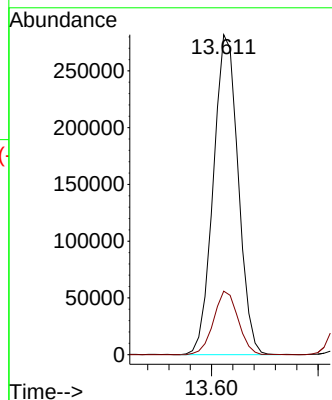
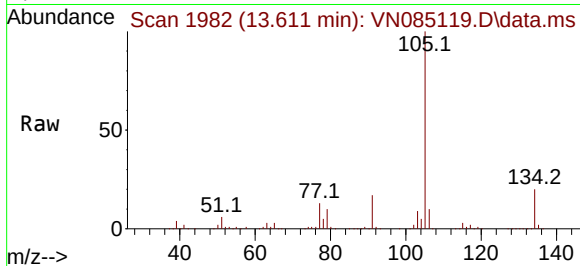




#81
 sec-Butylbenzene
 Concen: 49.942 ug/l
 RT: 13.611 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

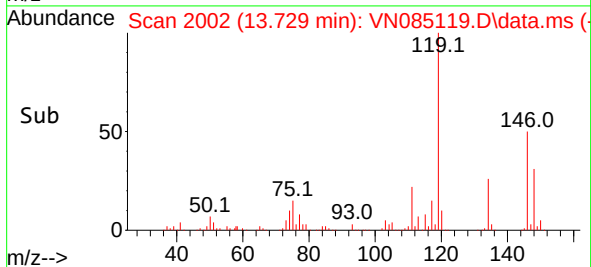
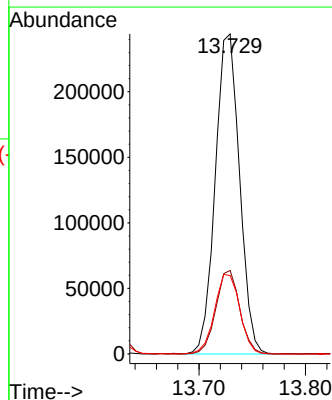
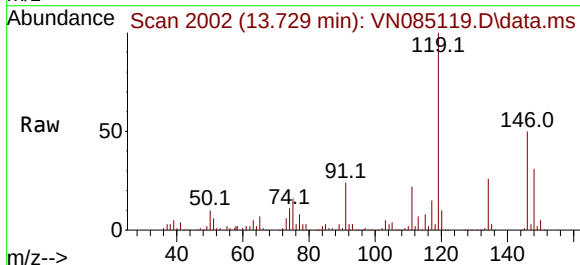
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

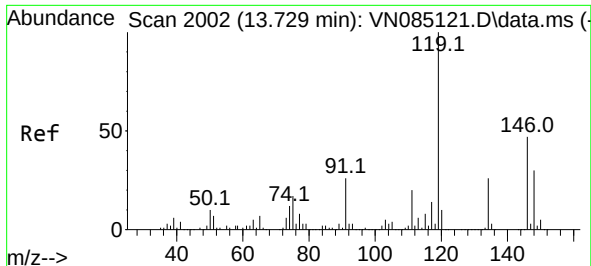
Tgt Ion:105 Resp: 456540
 Ion Ratio Lower Upper
 105 100
 134 19.6 0.0 38.0



#82
 p-Isopropyltoluene
 Concen: 50.937 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

Tgt Ion:119 Resp: 386040
 Ion Ratio Lower Upper
 119 100
 134 25.7 0.0 51.6
 91 25.7 0.0 50.4

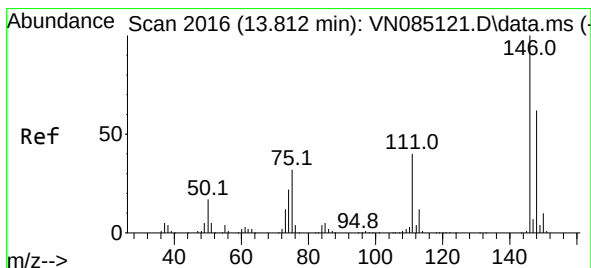
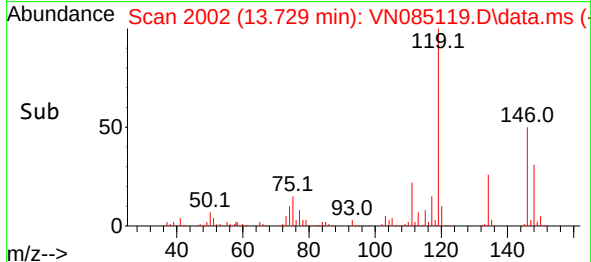
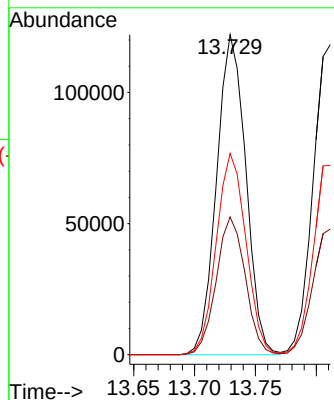
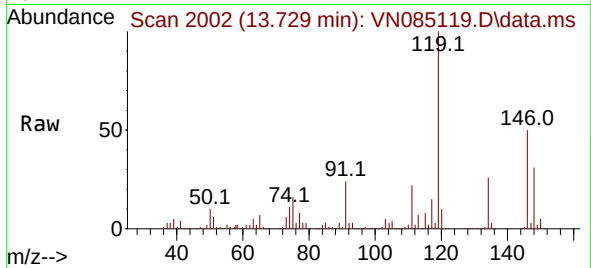




#83
 1,3-Dichlorobenzene
 Concen: 48.588 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

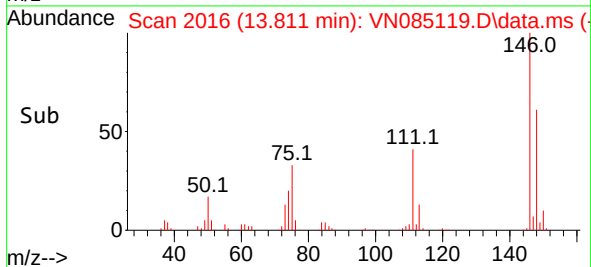
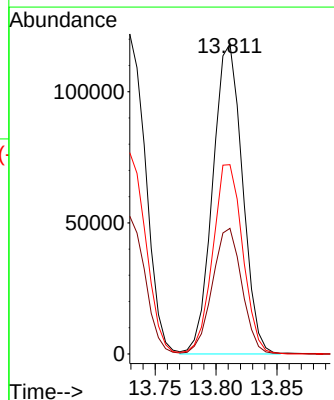
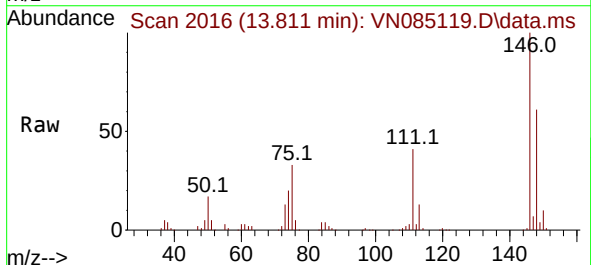
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

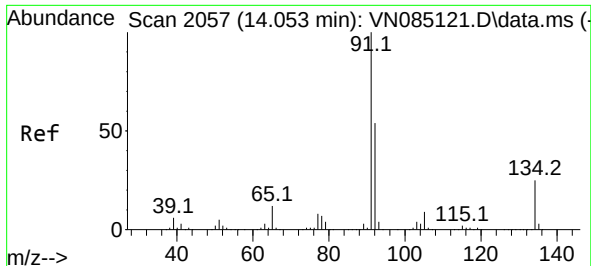
Tgt Ion:146 Resp: 204168
 Ion Ratio Lower Upper
 146 100
 111 42.7 21.1 63.3
 148 63.8 31.8 95.3



#84
 1,4-Dichlorobenzene
 Concen: 48.993 ug/l
 RT: 13.811 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN085119.D
 Acq: 06 Dec 2024 10:49

Tgt Ion:146 Resp: 200637
 Ion Ratio Lower Upper
 146 100
 111 40.1 20.1 60.3
 148 61.7 31.6 94.7

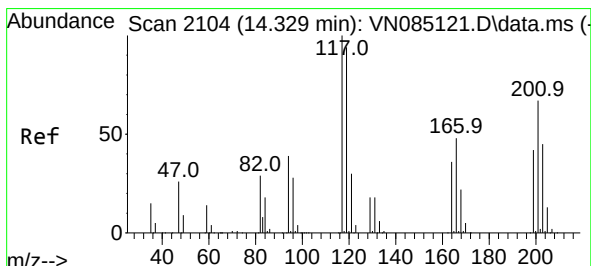
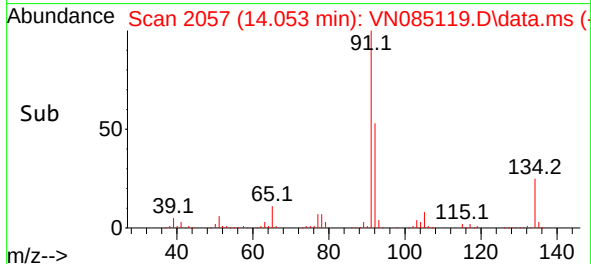
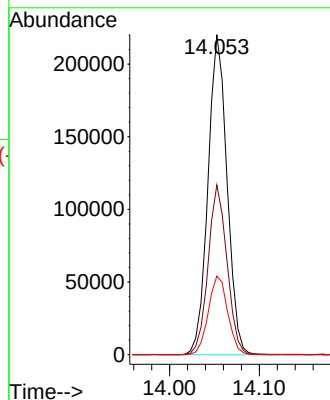
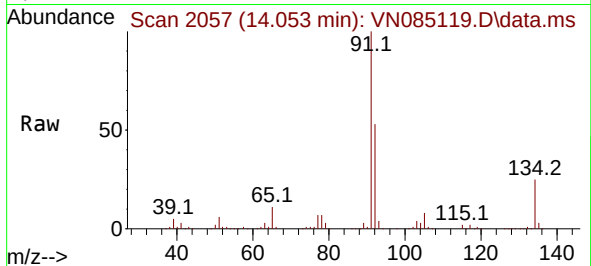




#85
n-Butylbenzene
Concen: 51.146 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

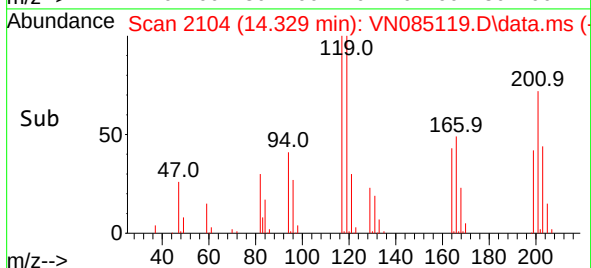
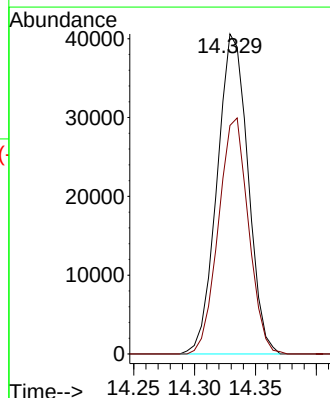
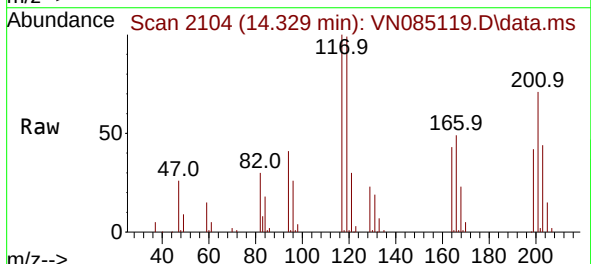
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

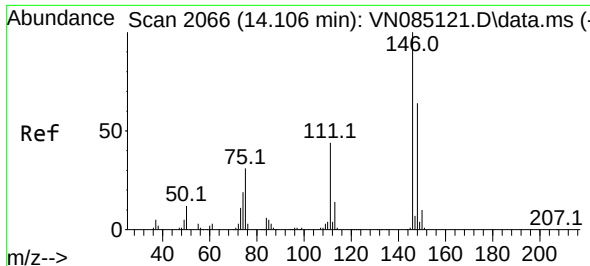
Tgt Ion: 91 Resp: 325144
Ion Ratio Lower Upper
91 100
92 52.5 0.0 104.0
134 24.9 0.0 49.2



#86
Hexachloroethane
Concen: 47.548 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 117 Resp: 71737
Ion Ratio Lower Upper
117 100
201 71.7 34.1 102.3

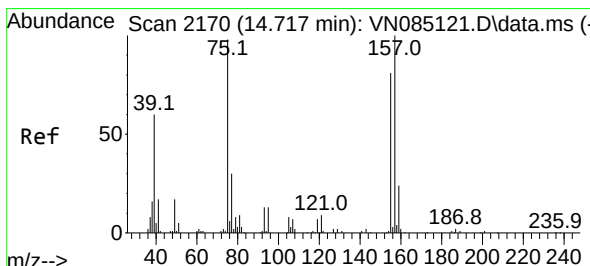
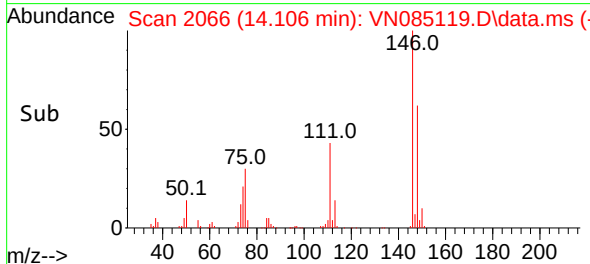
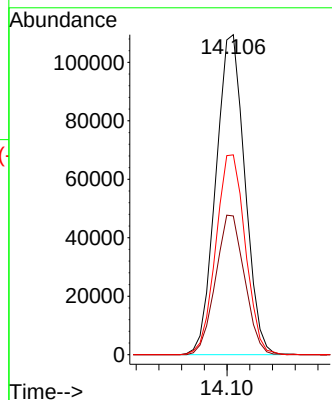
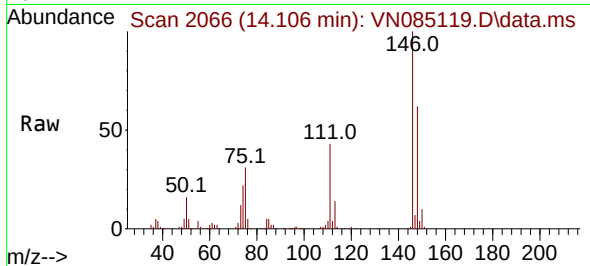




#87
1,2-Dichlorobenzene
Concen: 48.889 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

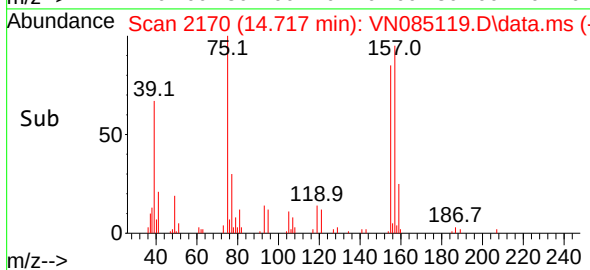
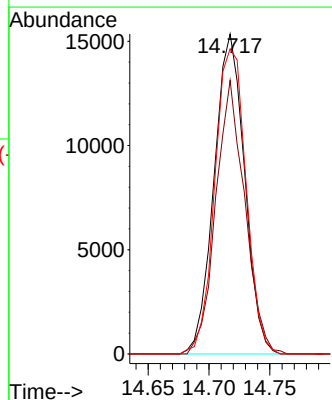
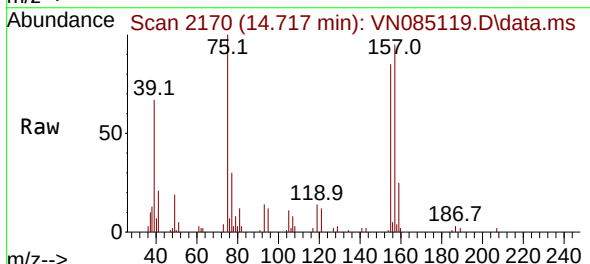
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

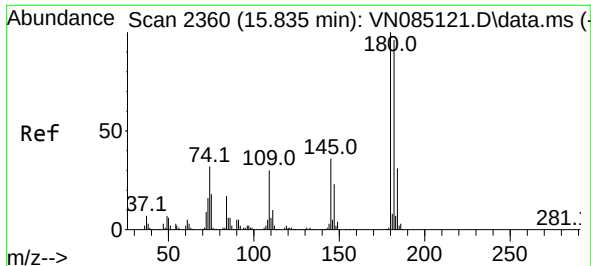
Tgt Ion:146 Resp: 193910
Ion Ratio Lower Upper
146 100
111 43.6 21.9 65.7
148 63.4 32.4 97.0



#88
1,2-Dibromo-3-Chloropropane
Concen: 47.975 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion: 75 Resp: 26674
Ion Ratio Lower Upper
75 100
155 81.6 62.1 93.1
157 97.8 79.3 118.9

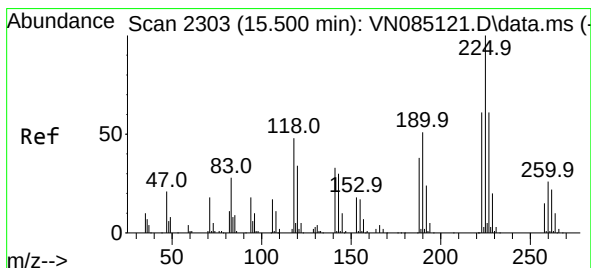
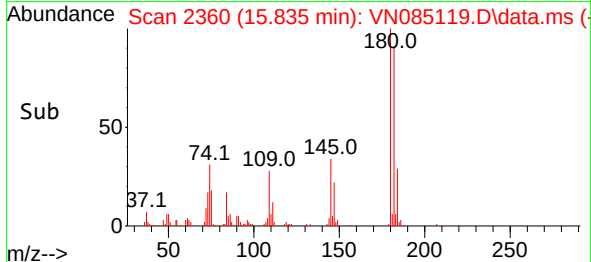
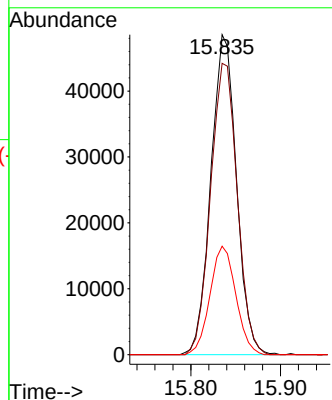
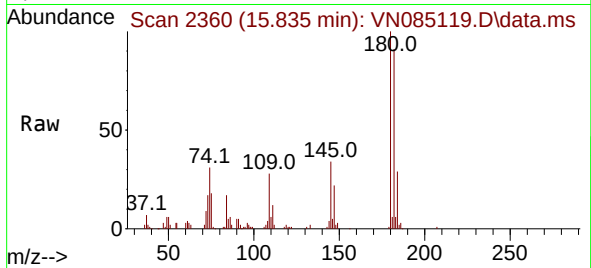




#89
1,2,4-Trichlorobenzene
Concen: 49.499 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

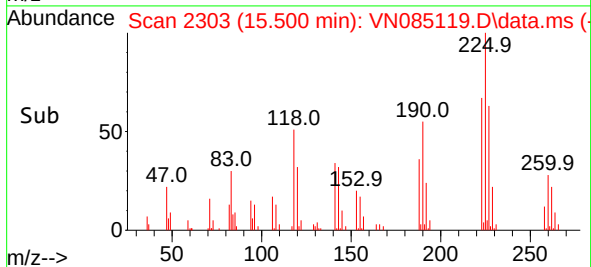
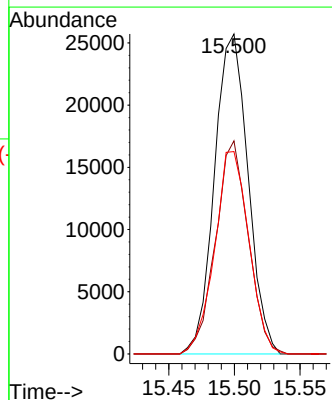
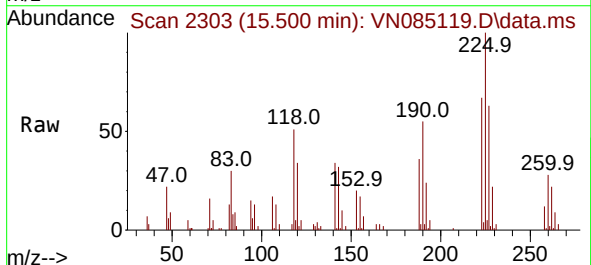
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

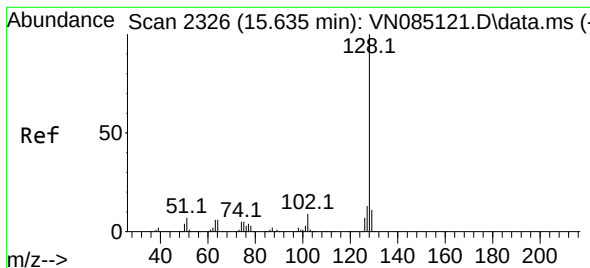
Tgt Ion:180 Resp: 96150
Ion Ratio Lower Upper
180 100
182 94.7 74.0 111.0
145 34.3 28.6 43.0



#90
Hexachlorobutadiene
Concen: 45.354 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085119.D
Acq: 06 Dec 2024 10:49

Tgt Ion:225 Resp: 45780
Ion Ratio Lower Upper
225 100
223 64.9 0.0 121.8
227 64.6 0.0 126.8





#91

Naphthalene

Concen: 51.498 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

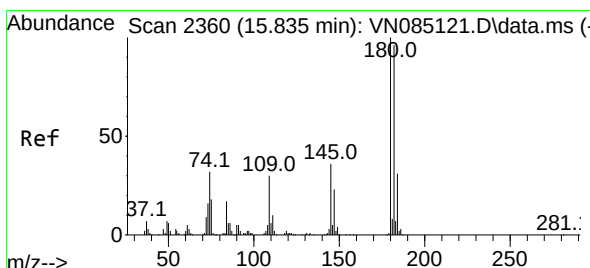
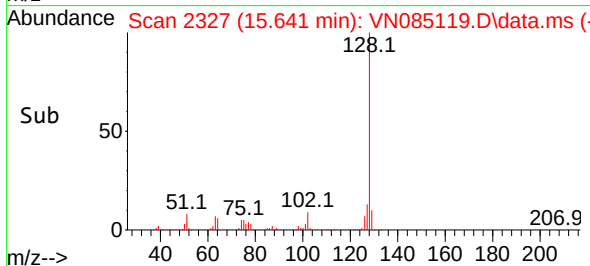
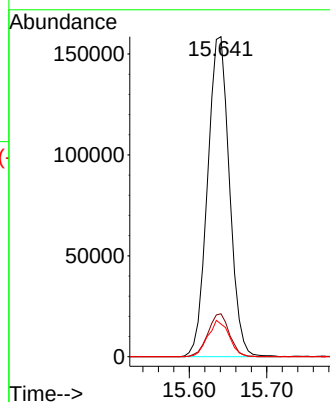
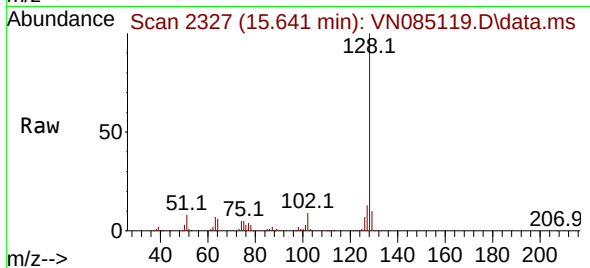
Tgt Ion:128 Resp: 310785

Ion Ratio Lower Upper

128 100

127 13.2 11.0 16.4

129 11.0 8.7 13.1



#92

1,2,3-Trichlorobenzene

Concen: 49.499 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085119.D

Acq: 06 Dec 2024 10:49

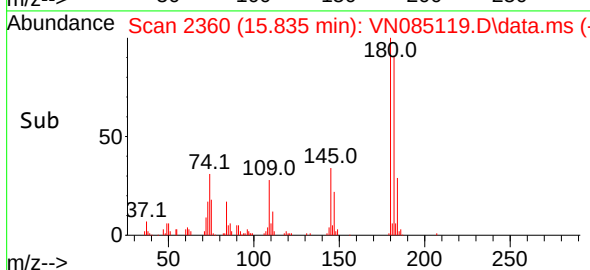
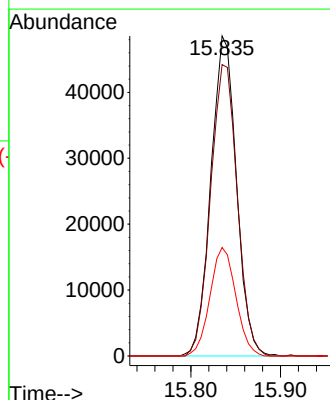
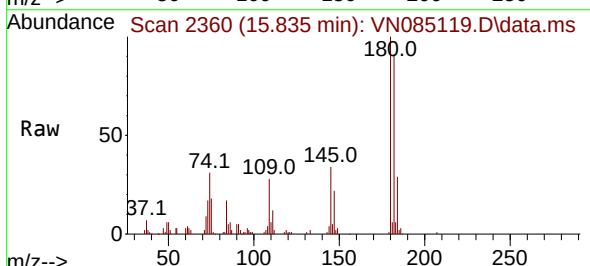
Tgt Ion:180 Resp: 96150

Ion Ratio Lower Upper

180 100

182 94.7 0.0 185.0

145 34.3 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085120.D
 Acq On : 06 Dec 2024 11:13
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 06 22:30:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30288	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	165873	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	153060	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71793	29.873	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.567%		
60) 4-Bromofluorobenzene	12.847	95	77922	30.768	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.567%		
63) Toluene-d8	10.565	98	210008	29.250	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.500%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	259006	106.887	ug/l	99
3) Chloromethane	2.359	50	222342	103.665	ug/l	98
4) Vinyl Chloride	2.512	62	227959	103.912	ug/l	99
5) Bromomethane	2.942	94	137690	98.857	ug/l	99
6) Chloroethane	3.112	64	139552	103.541	ug/l	100
7) Trichlorofluoromethane	3.494	101	376125	104.742	ug/l	100
8) Diethyl Ether	3.959	74	126597	111.303	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	208174	103.665	ug/l	99
10) 1,1-Dichloroethene	4.336	96	199737	108.286	ug/l	98
11) Methyl Iodide	4.589	142	285314	111.529	ug/l	96
12) Methyl Acetate	5.018	43	232698	106.935	ug/l	96
13) Acrolein	4.177	56	170574	539.405	ug/l	96
14) Acrylonitrile	5.712	53	493102	545.734	ug/l	97
15) Acetone	4.418	58	136513	557.523	ug/l	99
16) Carbon Disulfide	4.712	76	576373	104.540	ug/l	100
17) Allyl chloride	5.024	41	293051	111.032	ug/l	93
18) Methylene Chloride	5.271	84	214729	102.597	ug/l	99
19) trans-1,2-Dichloroethene	5.788	96	203123	105.945	ug/l	94
20) Diisopropyl ether	6.665	45	621282	107.259	ug/l	99
21) 1,1-Dichloroethane	6.565	63	374090	104.639	ug/l	99
22) cis-1,2-Dichloroethene	7.482	96	234199	106.277	ug/l	99
23) tert-Butyl Alcohol	5.518	59	184150	568.118	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	637140	110.650	ug/l #	77
25) Chloroform	7.965	83	384926	102.776	ug/l	94
26) Cyclohexane	8.253	56	327008	111.090	ug/l #	95
29) 1,1-Dichloropropene	8.371	75	279872	104.562	ug/l	99
30) 2-Butanone	7.477	43	648934	528.323	ug/l	99
31) 2,2-Dichloropropane	7.488	77	351838	102.508	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	363069	100.216	ug/l	98
33) Carbon Tetrachloride	8.359	117	327001	100.027	ug/l	94
34) Benzene	8.606	78	853279	101.479	ug/l	99
35) Methacrylonitrile	7.777	41	142639	103.194	ug/l	94
36) 1,2-Dichloroethane	8.665	62	286487	100.087	ug/l	100
37) Trichloroethene	9.347	130	206395	103.077	ug/l	97
38) Methylcyclohexane	9.594	83	320395	110.090	ug/l	94
39) 1,2-Dichloropropane	9.618	63	202160	99.263	ug/l	98
40) Dibromomethane	9.706	93	145378	99.515	ug/l	99
41) Bromodichloromethane	9.882	83	312321	100.007	ug/l	95
42) Vinyl Acetate	6.600	43	2379940	553.721	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085120.D
 Acq On : 06 Dec 2024 11:13
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

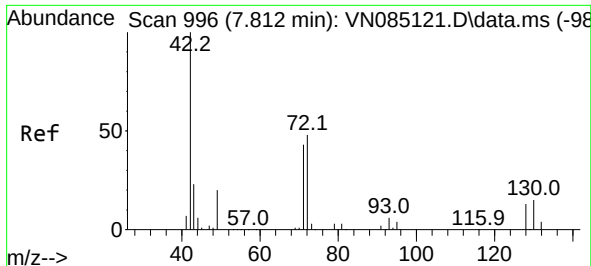
Quant Time: Dec 06 22:30:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	258485	105.766	ug/l	95
44) Isopropyl Acetate	8.682	43	438465	103.239	ug/l	98
45) 1,4-Dioxane	9.694	88	77646	2192.363	ug/l	97
46) Methyl methacrylate	9.676	41	210976	108.543	ug/l	97
47) n-amyl Acetate	12.494	43	398085	111.404	ug/l	93
48) t-1,3-Dichloropropene	10.835	75	327429	106.805	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	347791	104.212	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	195188	99.153	ug/l	95
51) Ethyl methacrylate	10.870	69	335501	112.054	ug/l	96
52) 1,3-Dichloropropane	11.159	76	335834	101.938	ug/l	100
53) Dibromochloromethane	11.359	129	242265	100.988	ug/l	96
54) 1,2-Dibromoethane	11.465	107	205342	103.531	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	785193	564.533	ug/l	100
56) Bromoform	12.576	173	166661	103.616	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	1337734	535.524	ug/l	98
59) 2-Hexanone	11.194	43	1026218	542.184	ug/l	97
61) Tetrachloroethene	11.100	164	182933	98.693	ug/l	97
62) Toluene	10.623	91	917622	102.798	ug/l	100
64) Chlorobenzene	11.888	112	571760	103.744	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	210736	102.429	ug/l	97
66) Ethyl Benzene	11.959	91	1036629	109.440	ug/l	98
67) m/p-Xylenes	12.070	106	791201	217.173	ug/l	98
68) o-Xylene	12.394	106	374478	109.449	ug/l	100
69) Styrene	12.406	104	648187	111.644	ug/l	100
70) Isopropylbenzene	12.694	105	985915	111.721	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	268272	99.877	ug/l	95
72) 1,2,3-Trichloropropane	12.988	75	371562	140.036	ug/l	76
73) Bromobenzene	12.976	156	235738	106.648	ug/l	100
74) n-propylbenzene	13.035	91	1166509	109.952	ug/l	99
75) 2-Chlorotoluene	13.123	91	703050	107.179	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	831794	110.018	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	107962	111.976	ug/l	98
78) 4-Chlorotoluene	13.217	91	713716	107.197	ug/l	99
79) tert-butylbenzene	13.435	119	697873	112.381	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	838873	112.327	ug/l	99
81) sec-Butylbenzene	13.611	105	983338	111.460	ug/l	98
82) p-Isopropyltoluene	13.723	119	829472	113.406	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	429389	105.881	ug/l	100
84) 1,4-Dichlorobenzene	13.811	146	423137	107.060	ug/l	99
85) n-Butylbenzene	14.053	91	713519	116.298	ug/l	98
86) Hexachloroethane	14.329	117	154986	106.440	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	401301	104.836	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	56942	106.118	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	214927	114.647	ug/l	99
90) Hexachlorobutadiene	15.500	225	100252	102.912	ug/l	99
91) Naphthalene	15.635	128	719387	123.516	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	214927	114.647	ug/l	99

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

Quant Time: Dec 06 22:30:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:19:40 2024
Response via : Initial Calibration

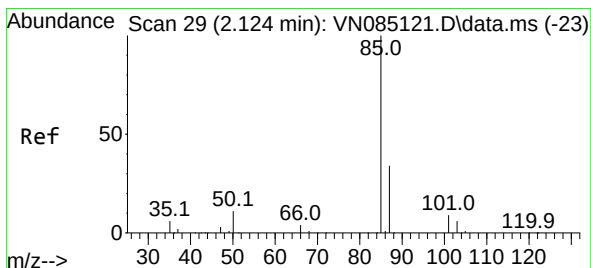
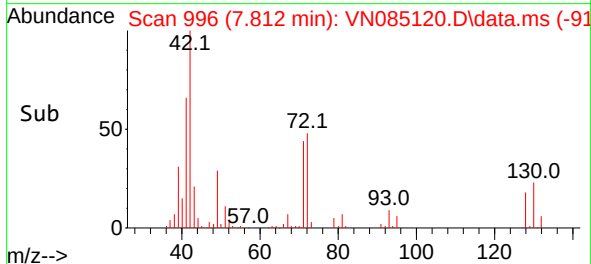
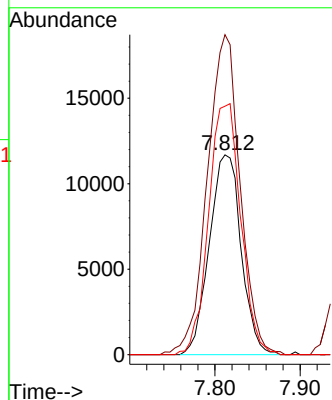
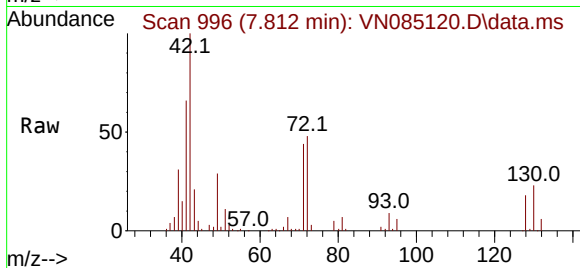




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

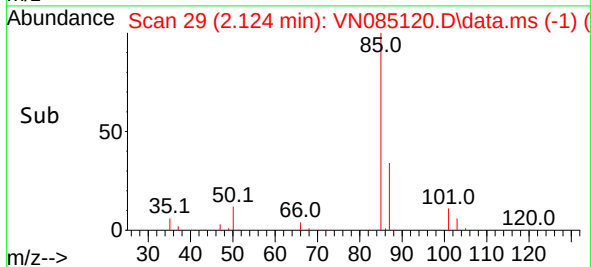
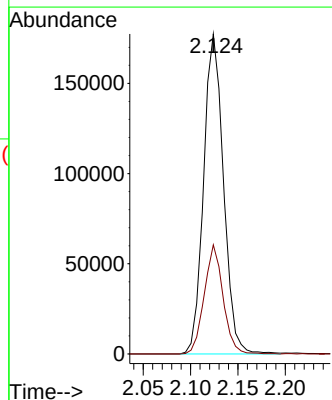
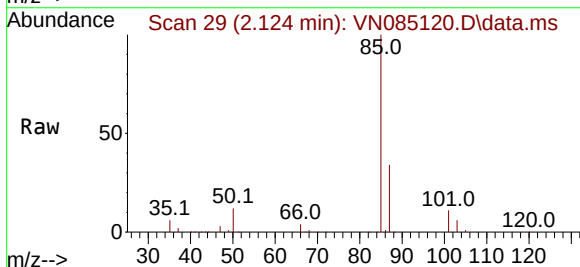
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

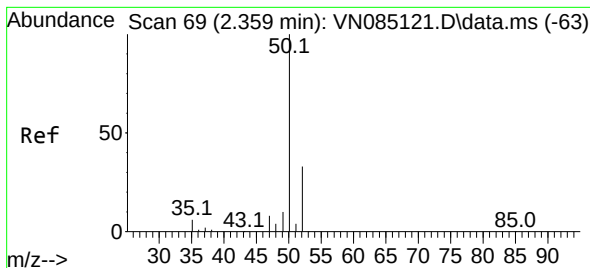
Tgt Ion:128 Resp: 30288
Ion Ratio Lower Upper
128 100
49 165.3 0.0 394.5
130 127.2 0.0 316.5



#2
Dichlorodifluoromethane
Concen: 106.887 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 85 Resp: 259006
Ion Ratio Lower Upper
85 100
87 34.1 16.8 50.3





#3

Chloromethane

Concen: 103.665 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

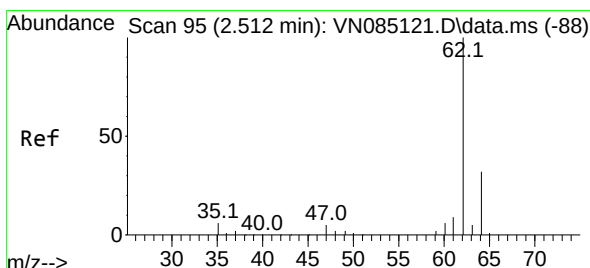
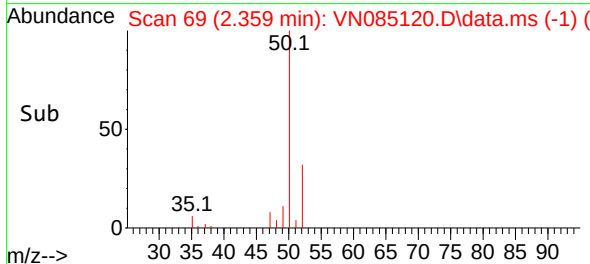
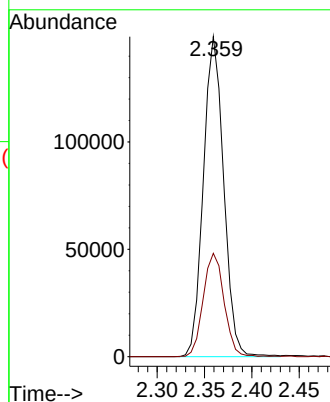
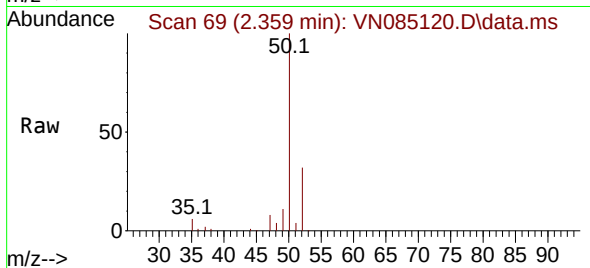
VSTDIC100

Tgt Ion: 50 Resp: 222342

Ion Ratio Lower Upper

50 100

52 32.2 25.0 37.4



#4

Vinyl Chloride

Concen: 103.912 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085120.D

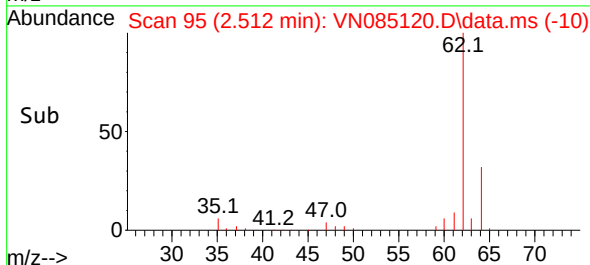
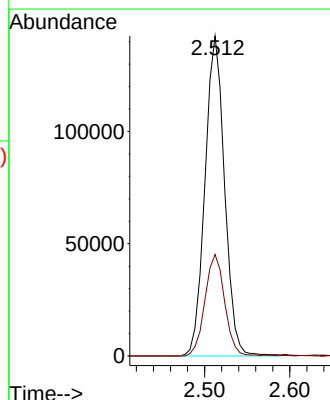
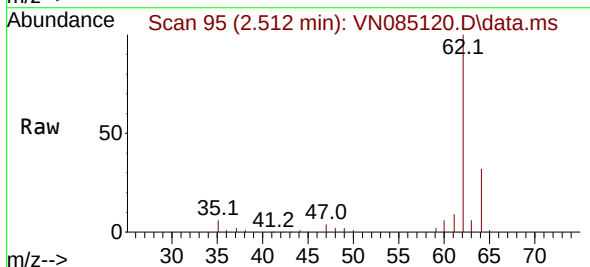
Acq: 06 Dec 2024 11:13

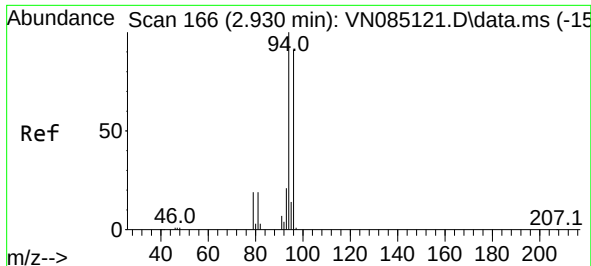
Tgt Ion: 62 Resp: 227959

Ion Ratio Lower Upper

62 100

64 31.7 24.9 37.3

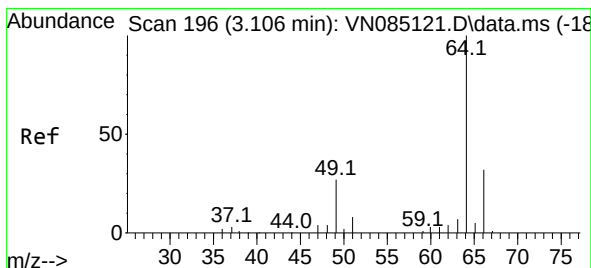
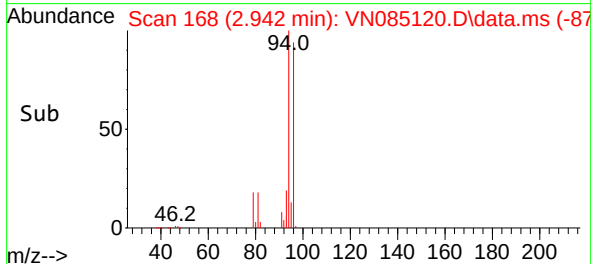
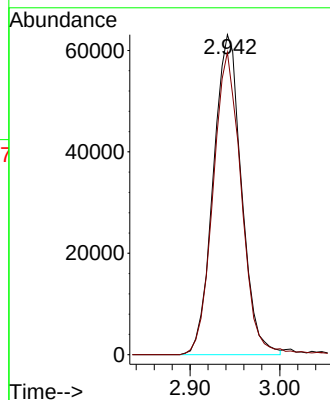
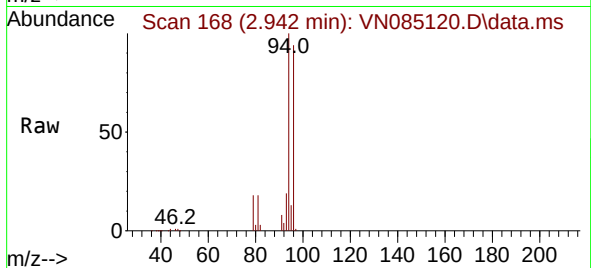




#5
Bromomethane
Concen: 98.857 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

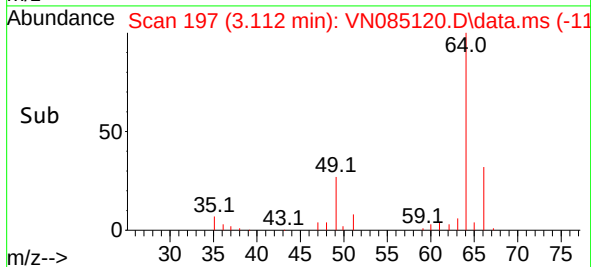
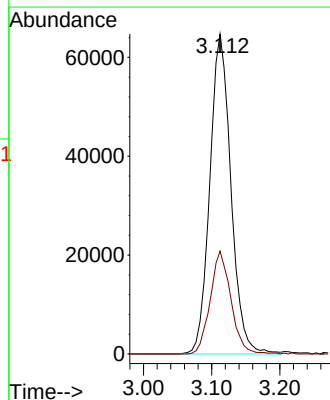
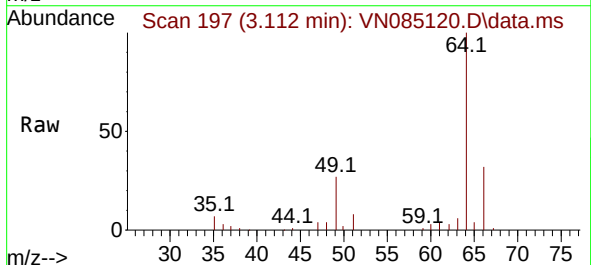
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

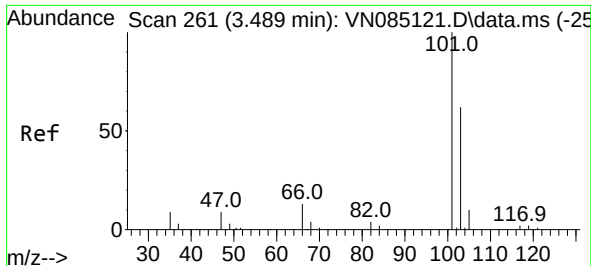
Tgt Ion: 94 Resp: 137690
Ion Ratio Lower Upper
94 100
96 94.5 76.2 114.4



#6
Chloroethane
Concen: 103.541 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 64 Resp: 139552
Ion Ratio Lower Upper
64 100
66 32.2 25.5 38.3

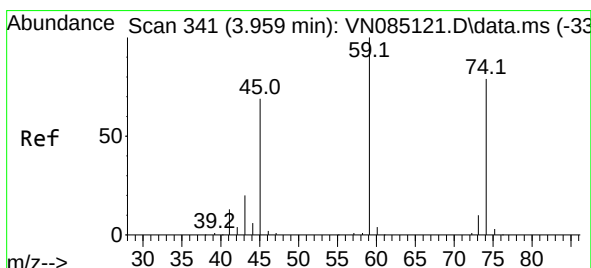
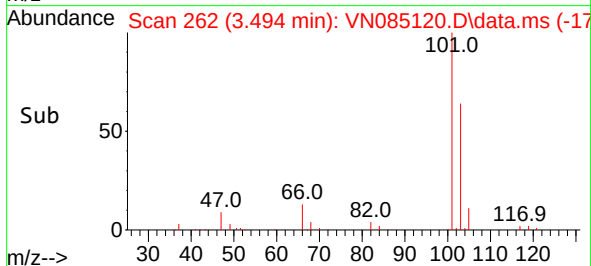
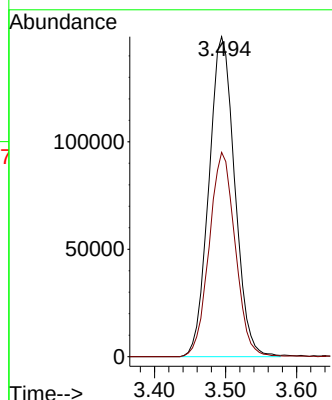
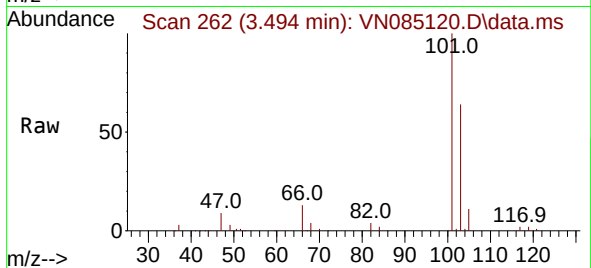




#7
 Trichlorofluoromethane
 Concen: 104.742 ug/l
 RT: 3.494 min Scan# 262
 Delta R.T. -0.006 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

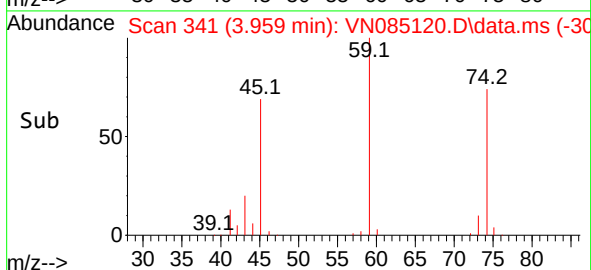
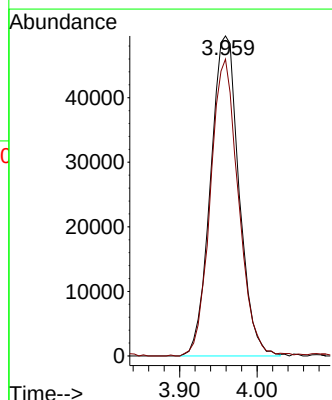
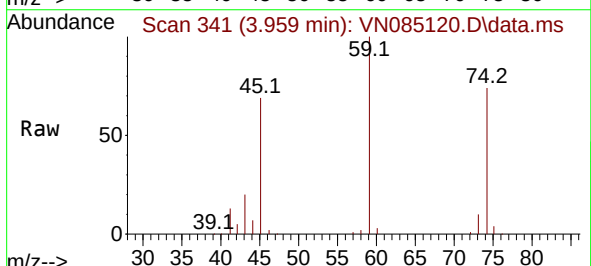
Instrument :
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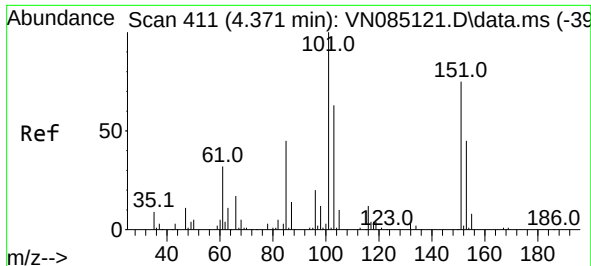
Tgt Ion:101 Resp: 376125
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.3 76.9



#8
 Diethyl Ether
 Concen: 111.303 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Tgt Ion: 74 Resp: 126597
 Ion Ratio Lower Upper
 74 100
 45 90.9 18.6 167.8

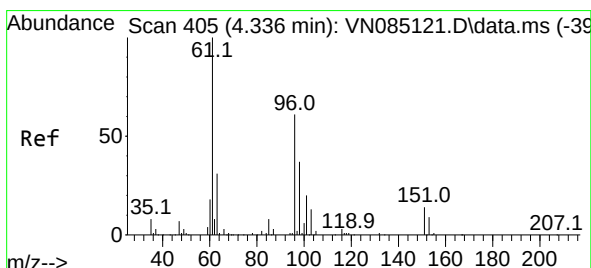
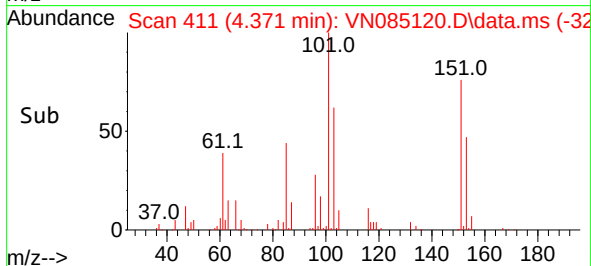
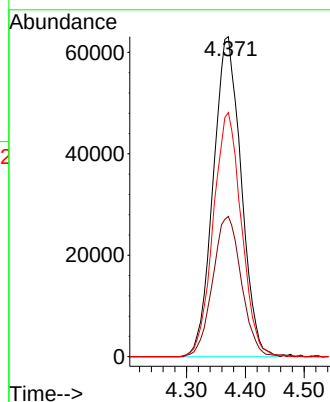
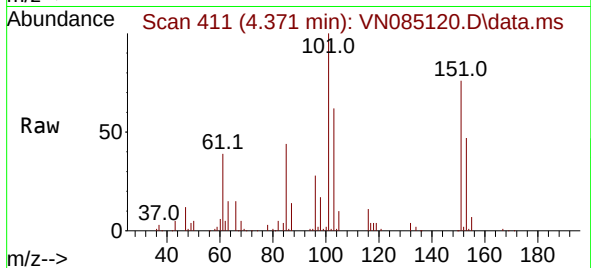




#9
1,1,2-Trichlorotrifluoroethane
Concen: 103.665 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

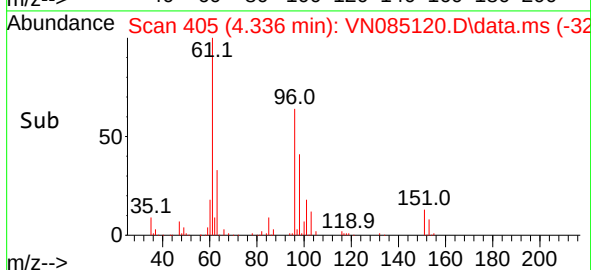
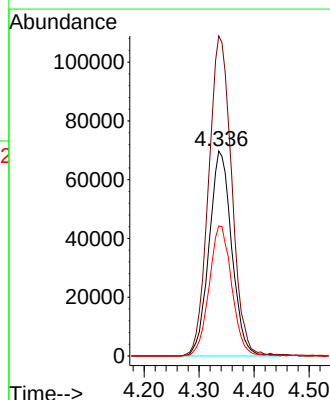
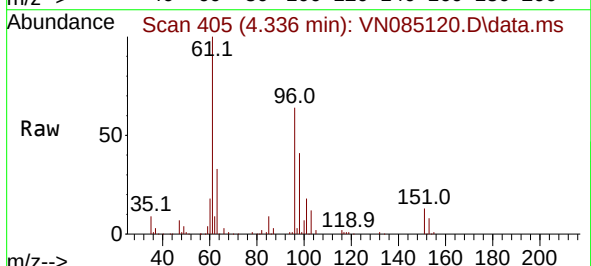
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

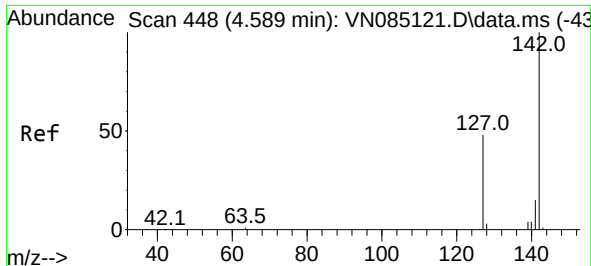
Tgt Ion:101 Resp: 208174
Ion Ratio Lower Upper
101 100
85 45.0 0.0 88.6
151 77.0 0.0 155.8



#10
1,1-Dichloroethene
Concen: 108.286 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 96 Resp: 199737
Ion Ratio Lower Upper
96 100
61 156.2 123.0 184.4
98 63.4 49.1 73.7

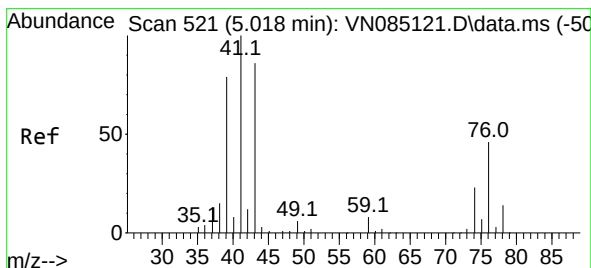
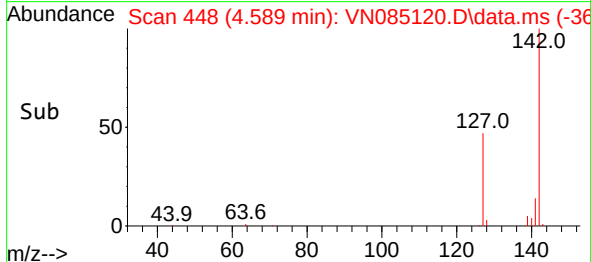
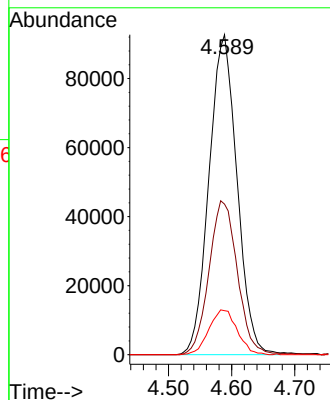
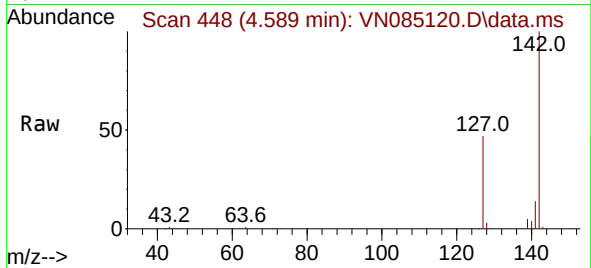




#11
Methyl Iodide
Concen: 111.529 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

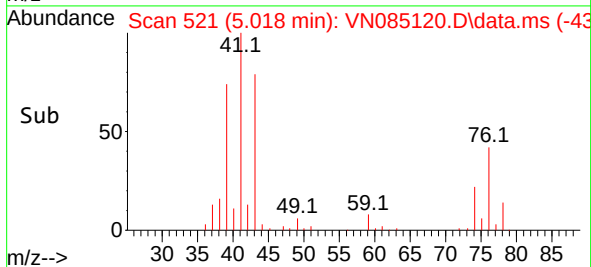
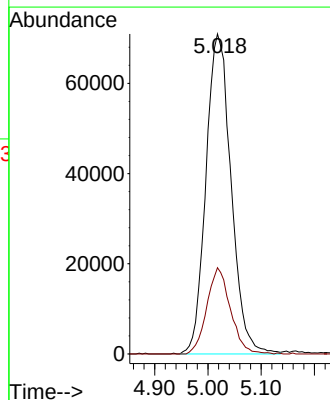
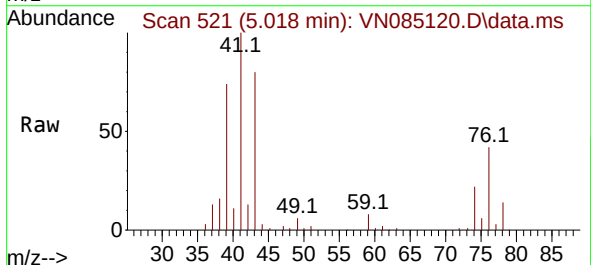
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

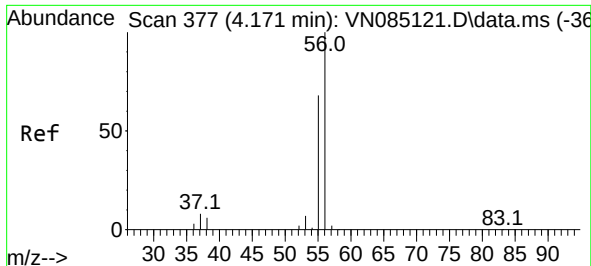
Tgt Ion:142 Resp: 285314
Ion Ratio Lower Upper
142 100
127 46.9 22.5 67.5
141 13.8 8.3 24.9



#12
Methyl Acetate
Concen: 106.935 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 43 Resp: 232698
Ion Ratio Lower Upper
43 100
74 26.9 19.8 29.6

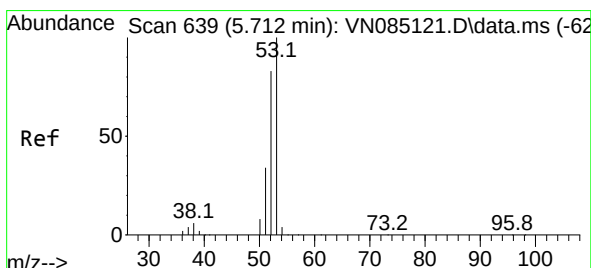
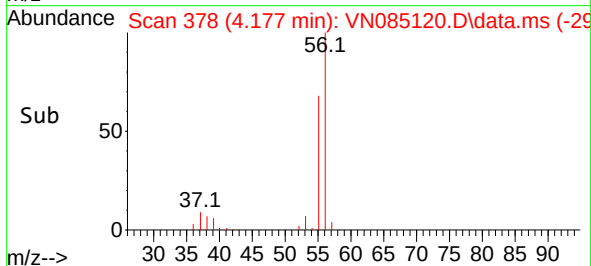
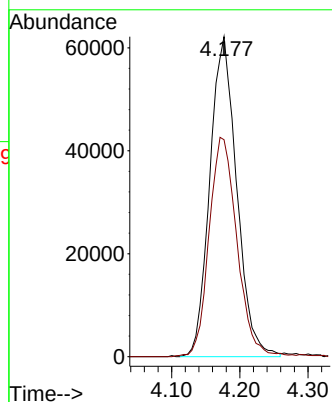
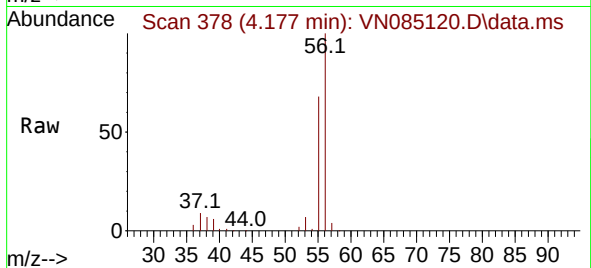




#13
Acrolein
Concen: 539.405 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

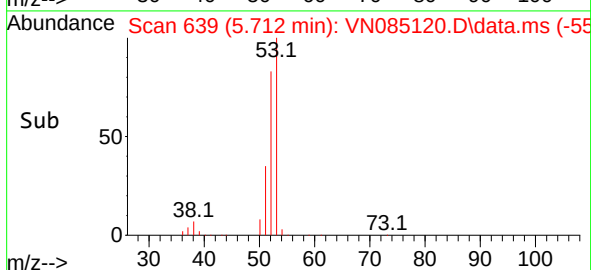
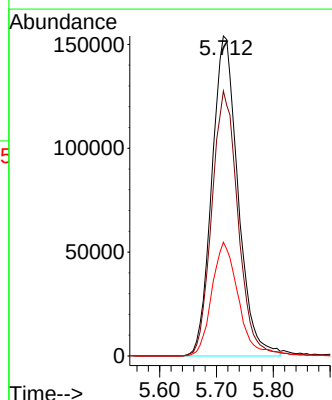
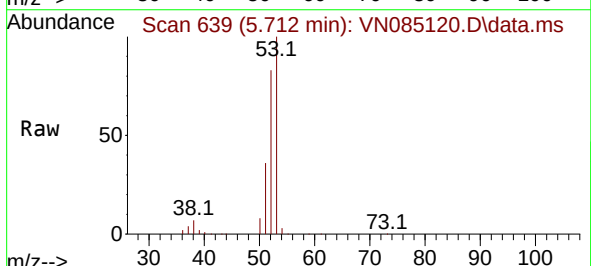
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

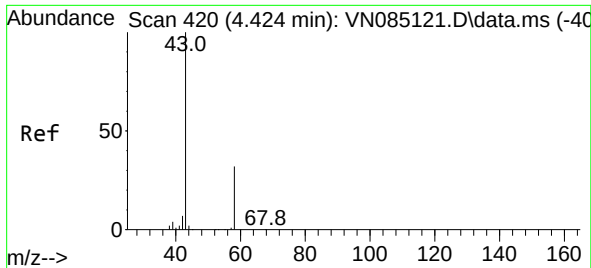
Tgt Ion: 56 Resp: 170574
Ion Ratio Lower Upper
56 100
55 70.6 59.4 89.0



#14
Acrylonitrile
Concen: 545.734 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 53 Resp: 493102
Ion Ratio Lower Upper
53 100
52 82.7 42.9 128.5
51 36.4 17.2 51.5

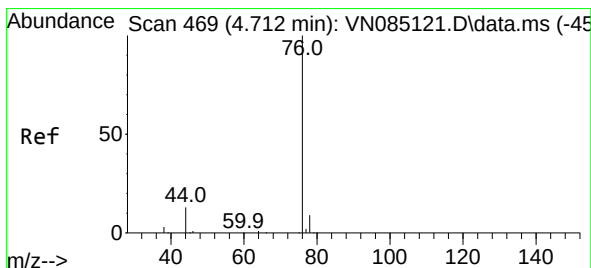
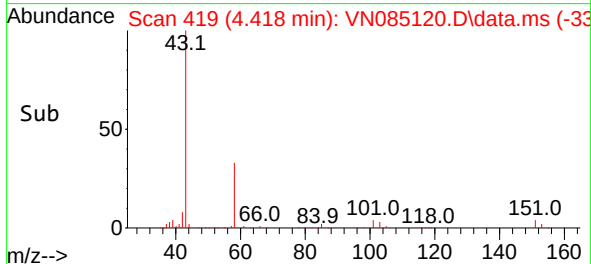
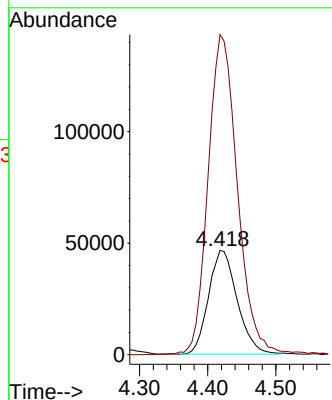
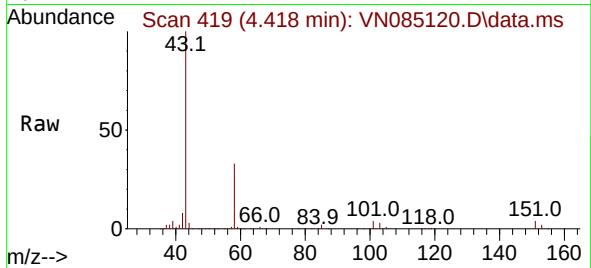




#15
Acetone
Concen: 557.523 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

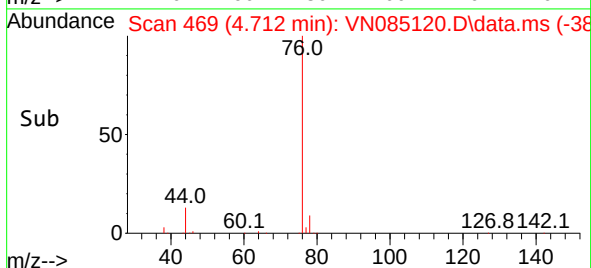
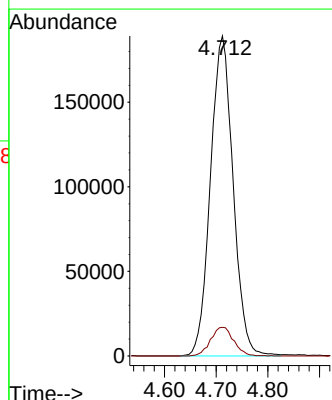
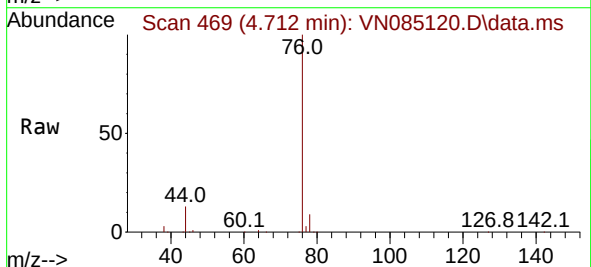
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

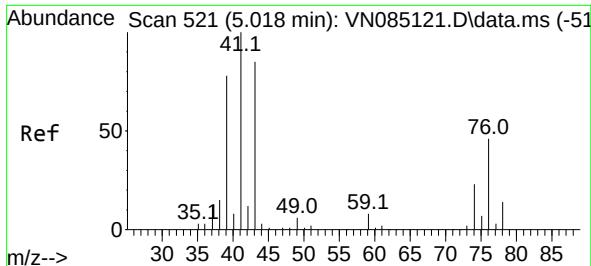
Tgt Ion: 58 Resp: 136513
Ion Ratio Lower Upper
58 100
43 305.3 242.3 363.5



#16
Carbon Disulfide
Concen: 104.540 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 76 Resp: 576373
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7



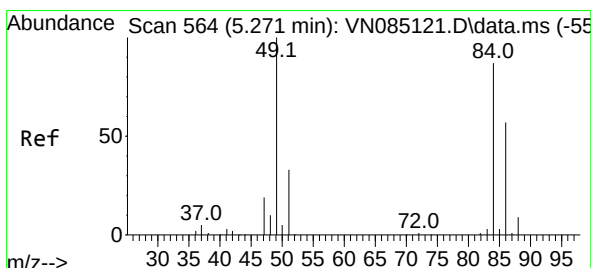
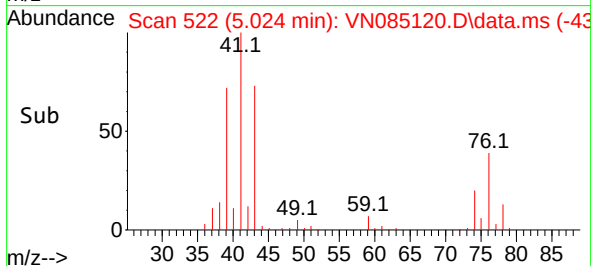
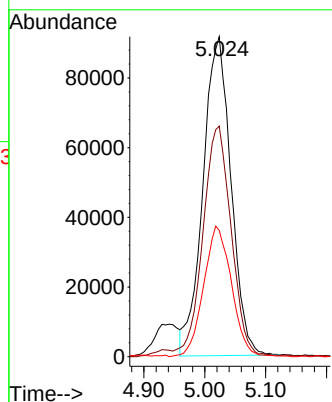
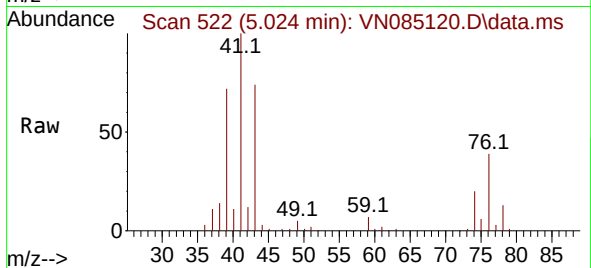


#17
Allyl chloride
Concen: 111.032 ug/l
RT: 5.024 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 41 Resp: 293051

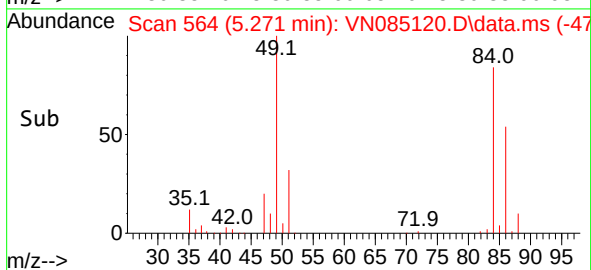
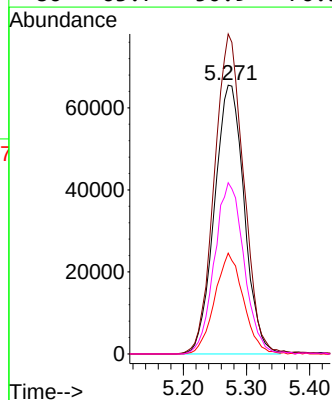
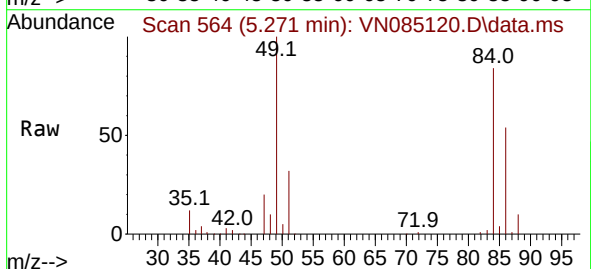
Ion	Ratio	Lower	Upper
41	100		
39	72.2	32.0	96.2
76	39.4	20.2	60.5

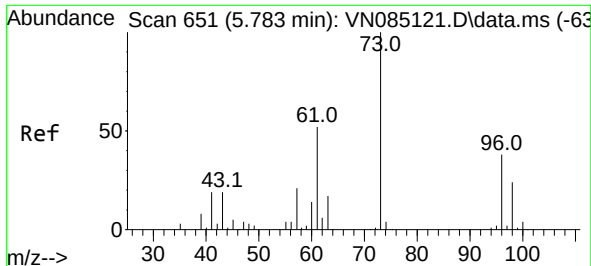


#18
Methylene Chloride
Concen: 102.597 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 84 Resp: 214729

Ion	Ratio	Lower	Upper
84	100		
49	118.8	95.1	142.7
51	37.5	27.4	41.0
86	63.7	50.9	76.3

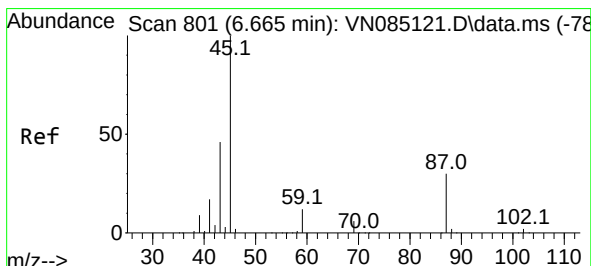
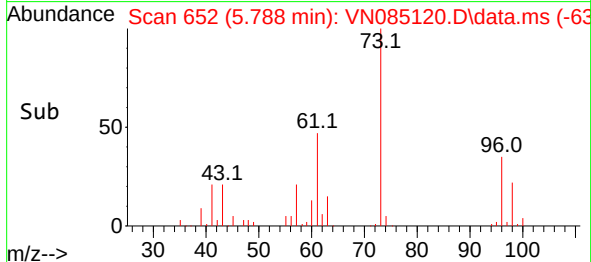
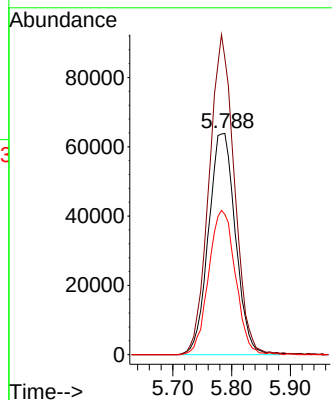
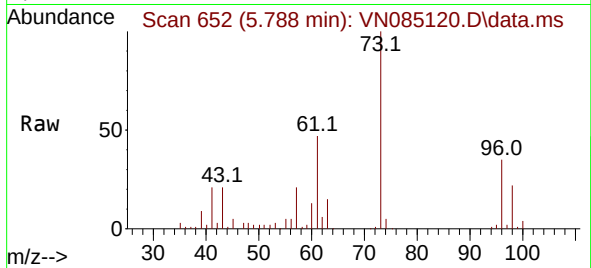




#19
trans-1,2-Dichloroethene
Concen: 105.945 ug/l
RT: 5.788 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

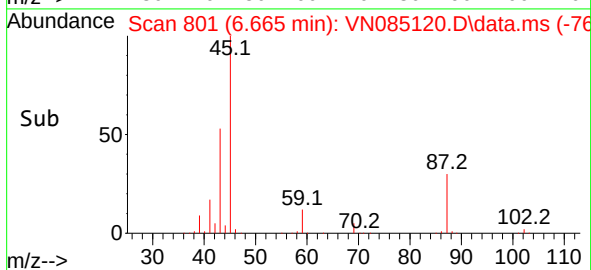
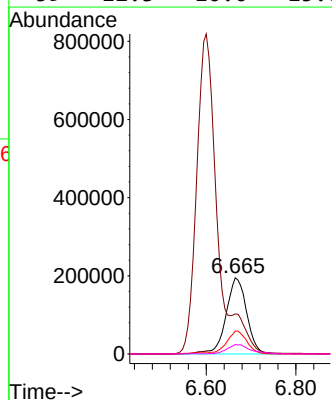
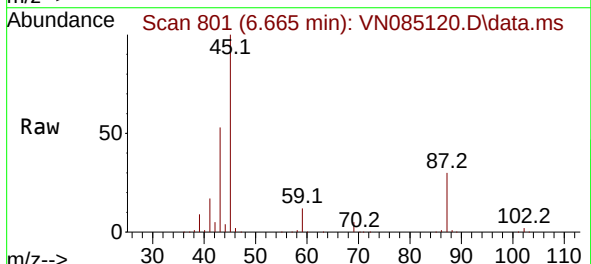
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

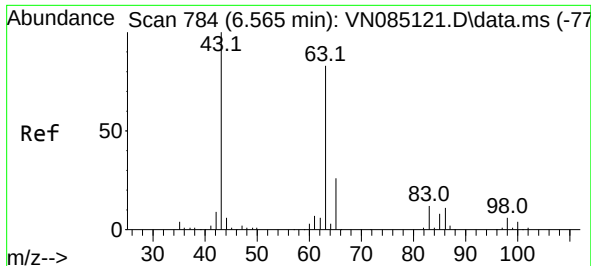
Tgt Ion: 96 Resp: 203123
Ion Ratio Lower Upper
96 100
61 133.8 100.4 150.6
98 63.4 52.6 79.0



#20
Diisopropyl ether
Concen: 107.259 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 45 Resp: 621282
Ion Ratio Lower Upper
45 100
43 51.6 41.9 62.9
87 29.9 24.1 36.1
59 12.3 10.0 15.0





#21

1,1-Dichloroethane

Concen: 104.639 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

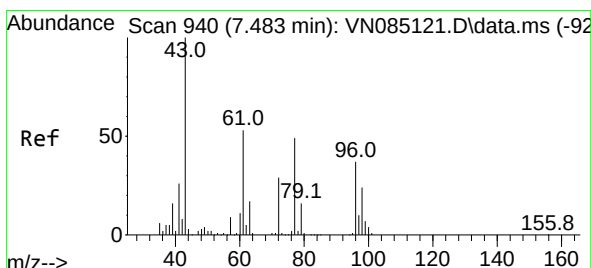
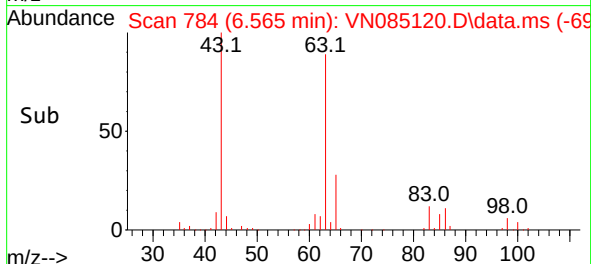
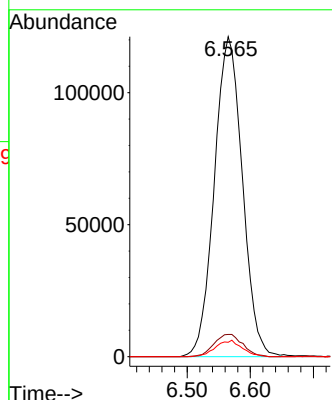
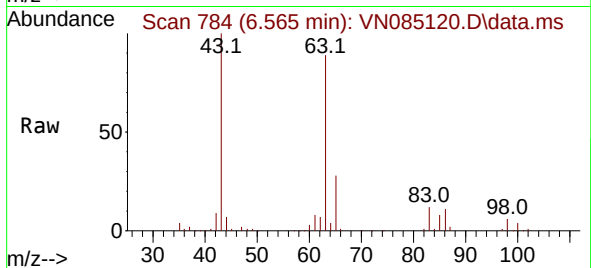
Tgt Ion: 63 Resp: 374090

Ion Ratio Lower Upper

63 100

98 7.0 3.5 10.4

100 4.5 1.6 4.8



#22

cis-1,2-Dichloroethene

Concen: 106.277 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

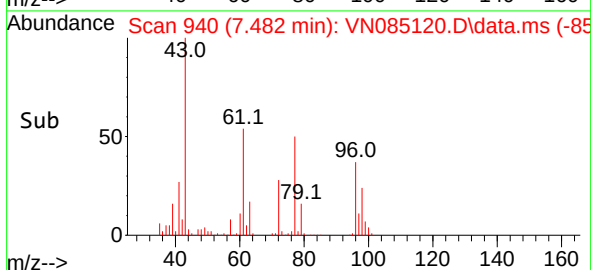
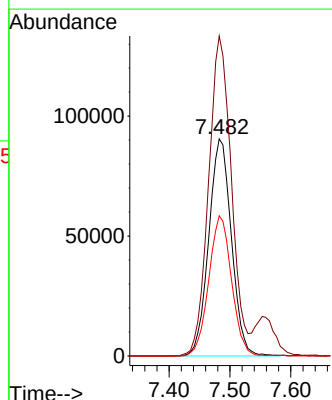
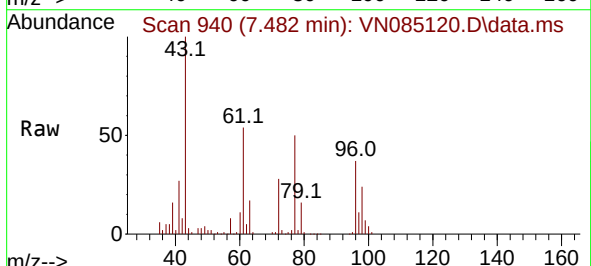
Tgt Ion: 96 Resp: 234199

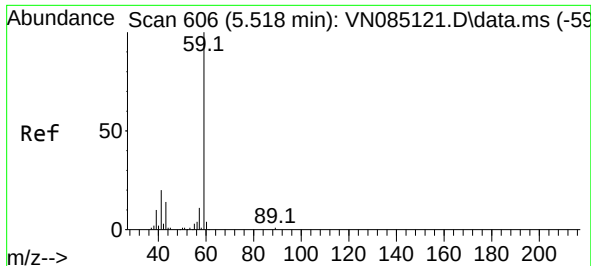
Ion Ratio Lower Upper

96 100

61 147.4 115.9 173.9

98 64.7 51.8 77.8

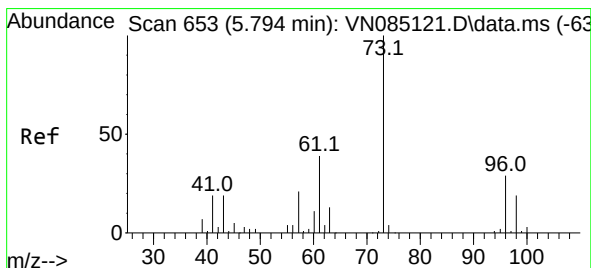
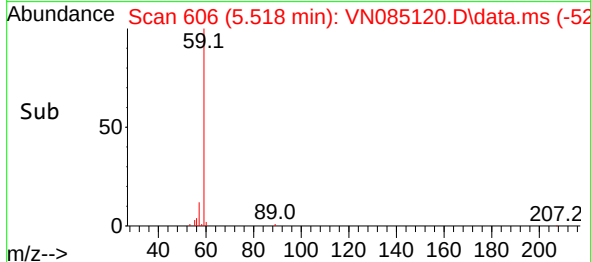
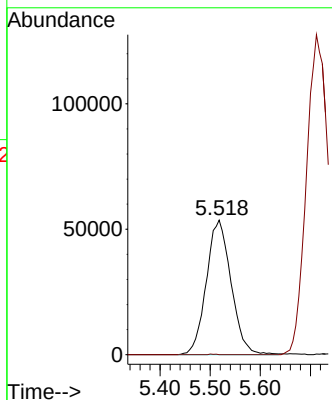
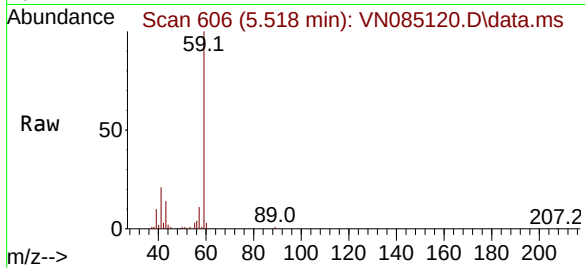




#23
tert-Butyl Alcohol
Concen: 568.118 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

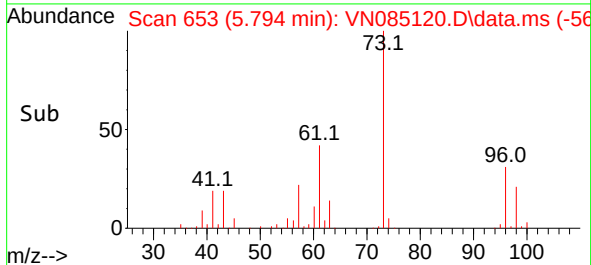
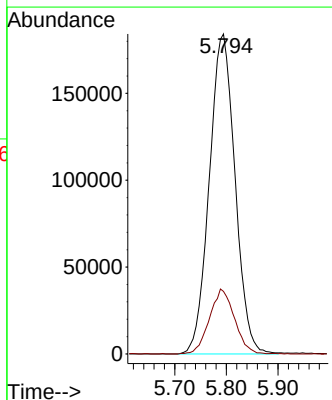
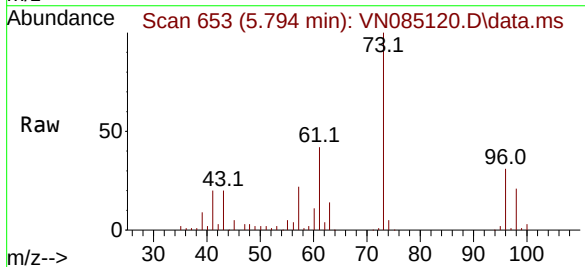
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

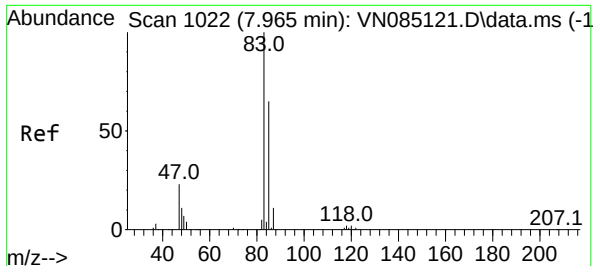
Tgt Ion: 59 Resp: 184150
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 110.650 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 73 Resp: 637140
Ion Ratio Lower Upper
73 100
43 19.7 8.7 13.1#

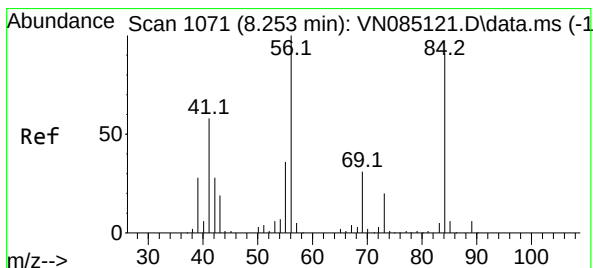
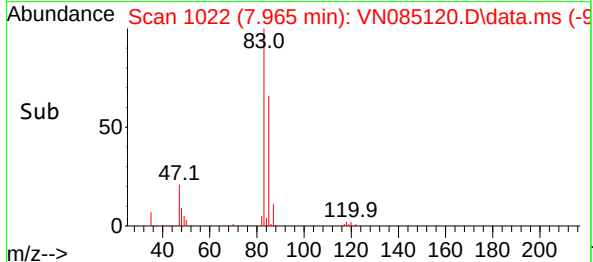
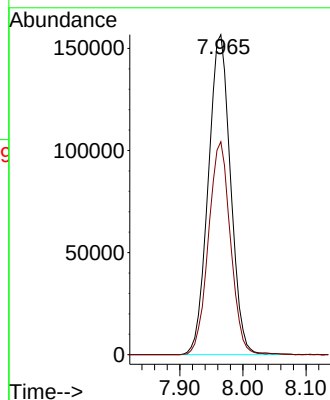
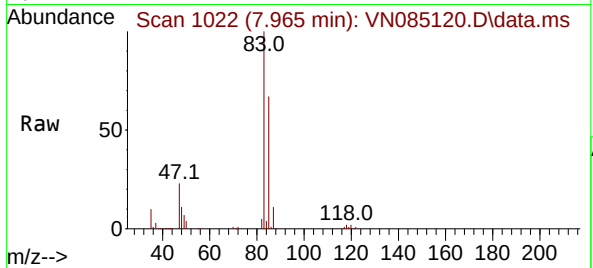




#25
Chloroform
Concen: 102.776 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

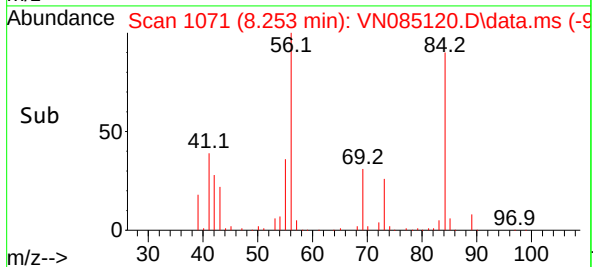
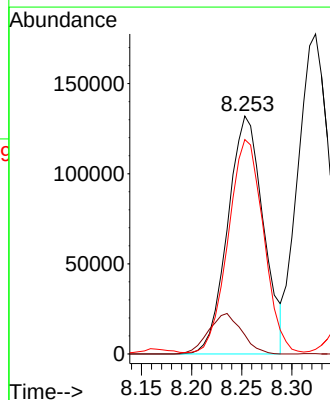
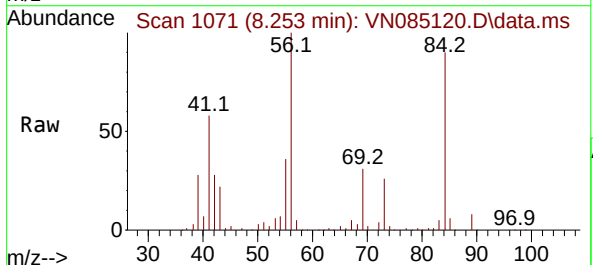
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

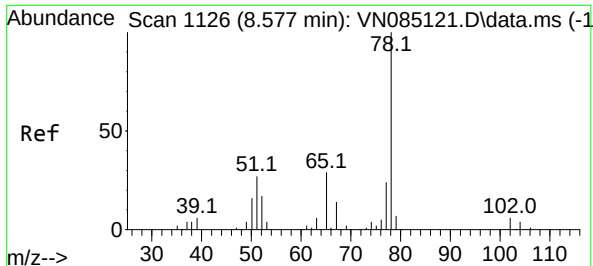
Tgt Ion: 83 Resp: 384926
Ion Ratio Lower Upper
83 100
85 66.6 49.4 74.0



#26
Cyclohexane
Concen: 111.090 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 56 Resp: 327008
Ion Ratio Lower Upper
56 100
89 15.9 19.5 29.3#
84 89.7 70.6 105.8





#27

1,2-Dichloroethane-d4

Concen: 29.873 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

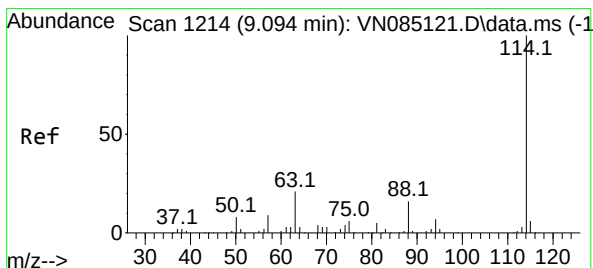
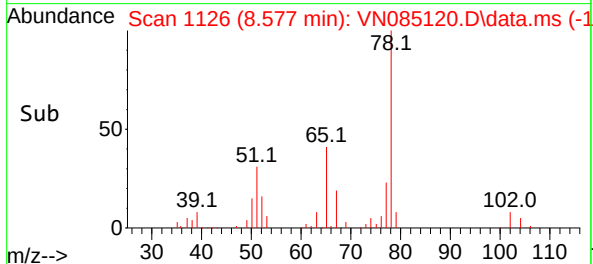
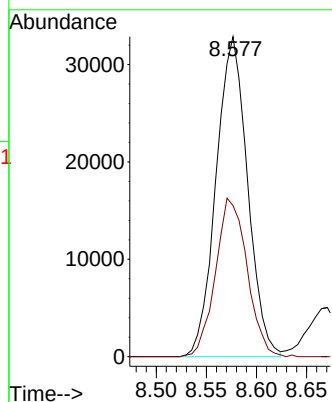
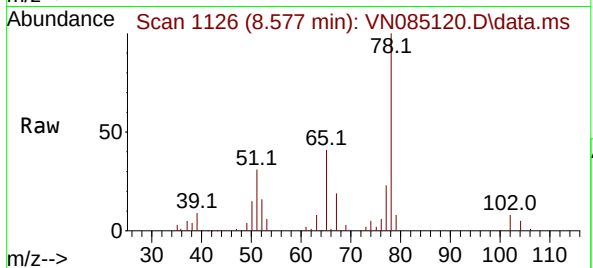
VSTDICC100

Tgt Ion: 65 Resp: 71793

Ion Ratio Lower Upper

65 100

67 49.6 39.9 59.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

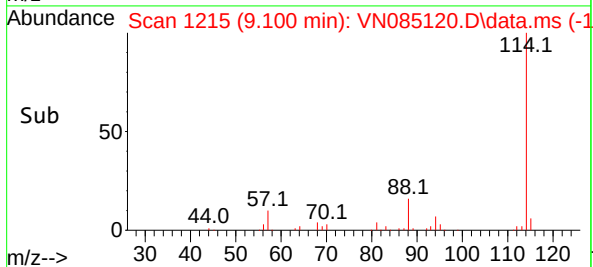
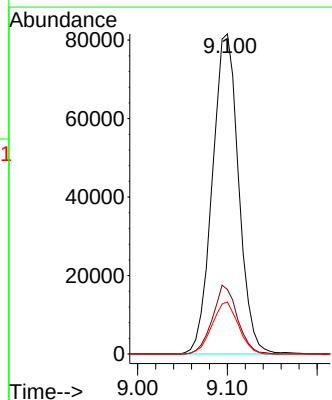
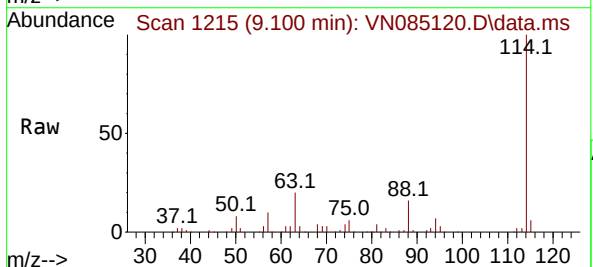
Tgt Ion: 114 Resp: 165873

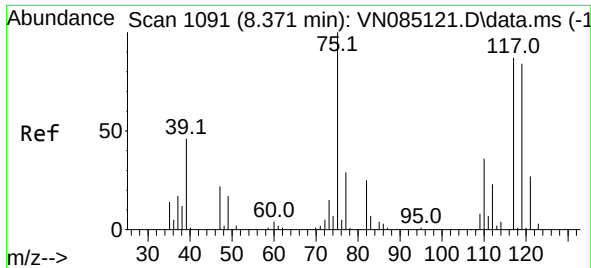
Ion Ratio Lower Upper

114 100

63 20.4 16.2 24.2

88 16.2 12.5 18.7

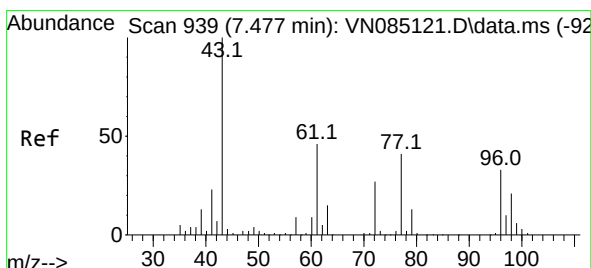
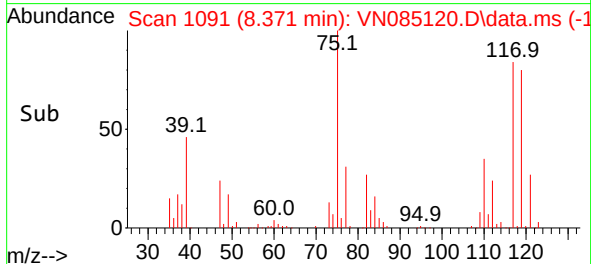
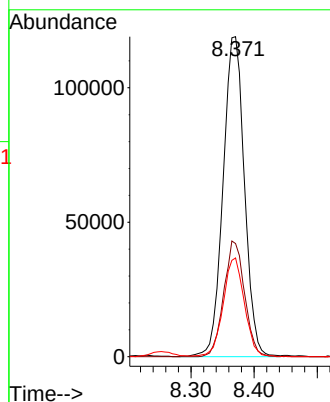
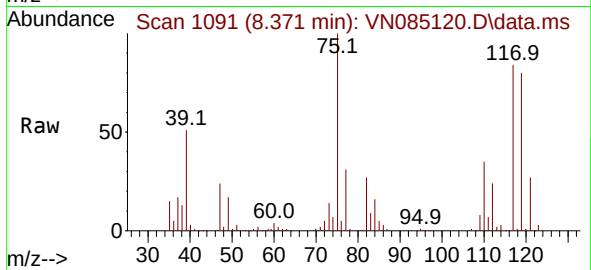




#29
1,1-Dichloropropene
Concen: 104.562 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

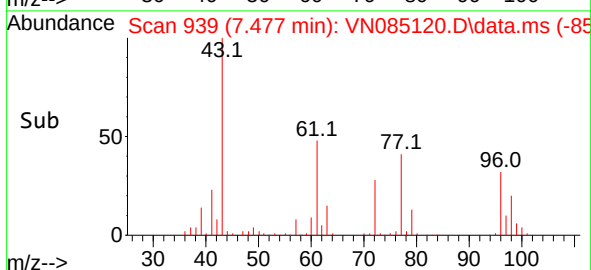
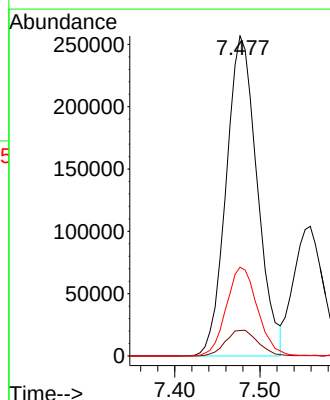
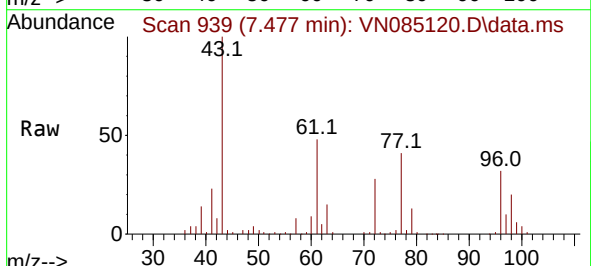
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

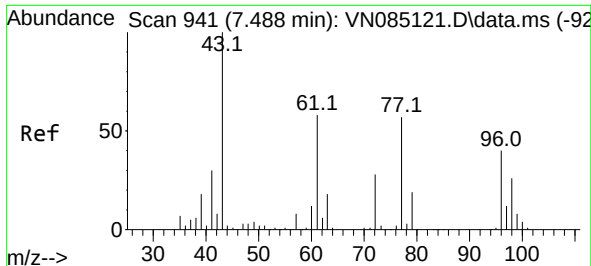
Tgt Ion: 75 Resp: 279872
Ion Ratio Lower Upper
75 100
110 35.1 0.0 71.6
77 30.7 0.0 62.2



#30
2-Butanone
Concen: 528.323 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 43 Resp: 648934
Ion Ratio Lower Upper
43 100
57 8.4 6.9 10.3
72 27.9 21.8 32.8





#31

2,2-Dichloropropane

Concen: 102.508 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

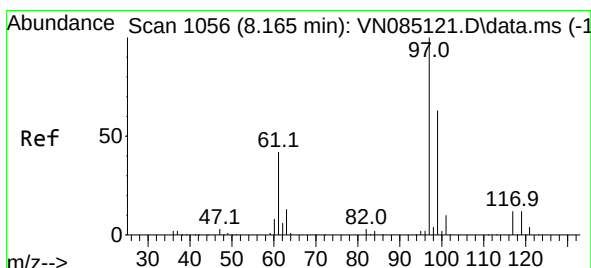
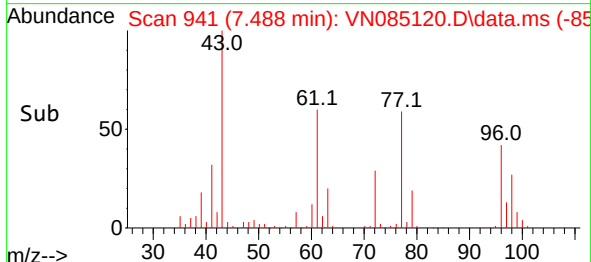
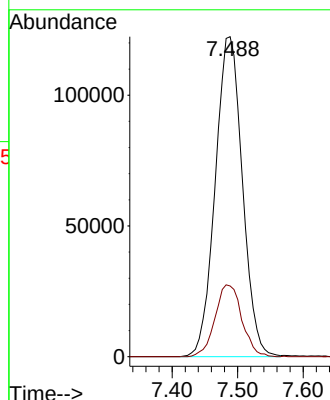
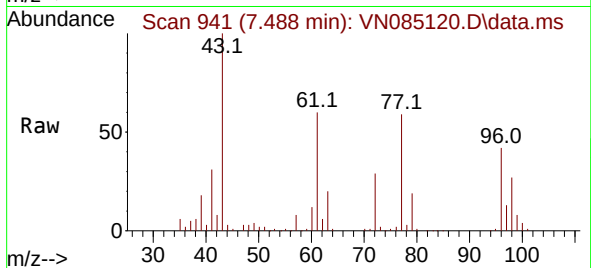
VSTDIC100

Tgt Ion: 77 Resp: 351838

Ion Ratio Lower Upper

77 100

97 22.1 0.0 0.0#



#32

1,1,1-Trichloroethane

Concen: 100.216 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

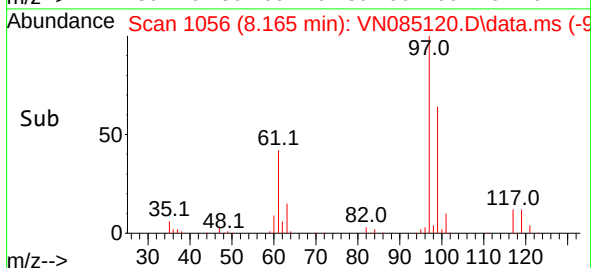
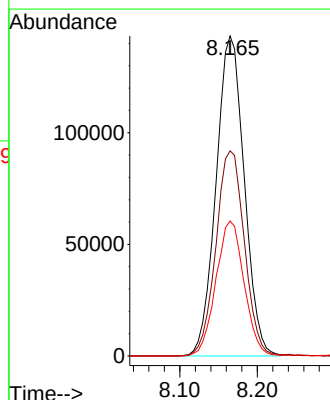
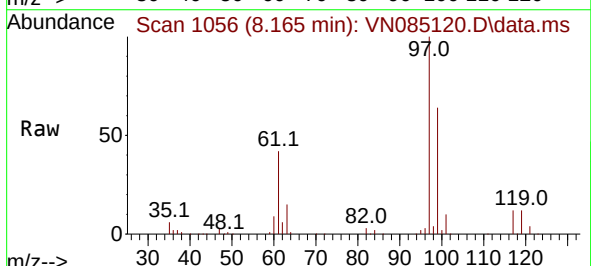
Tgt Ion: 97 Resp: 363069

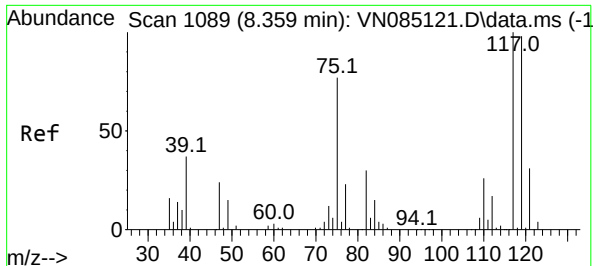
Ion Ratio Lower Upper

97 100

99 64.8 50.8 76.2

61 42.1 32.7 49.1

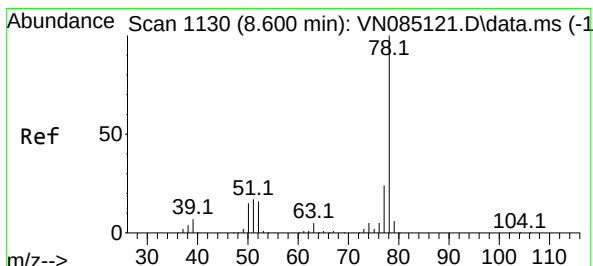
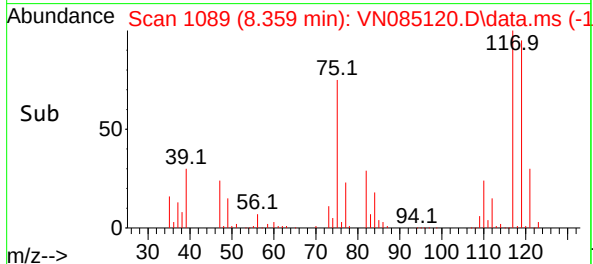
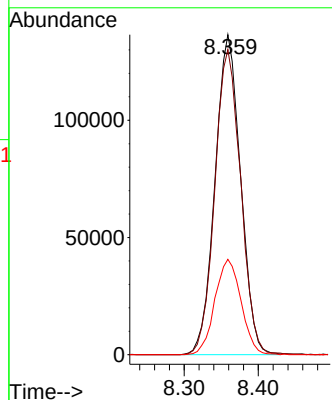
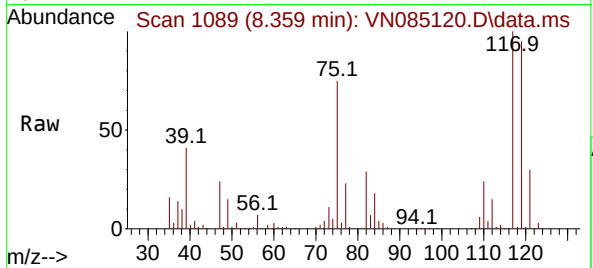




#33
Carbon Tetrachloride
Concen: 100.027 ug/l
RT: 8.359 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

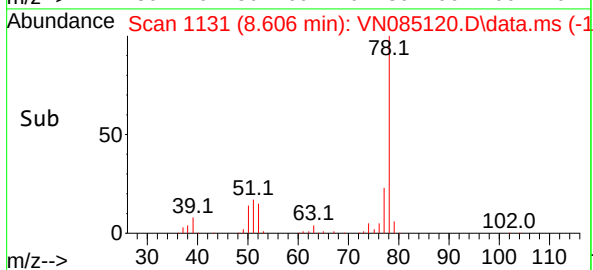
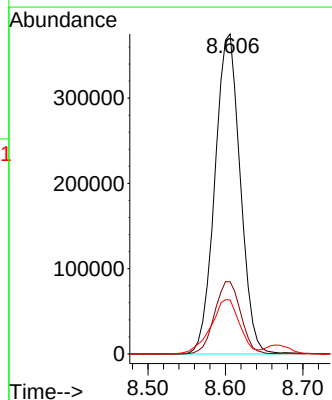
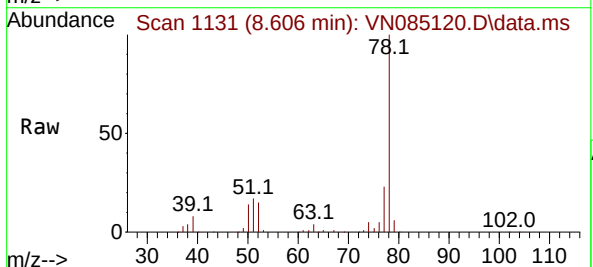
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

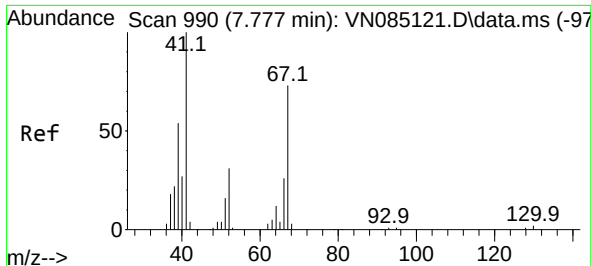
Tgt Ion:117 Resp: 327001
Ion Ratio Lower Upper
117 100
119 95.3 81.6 122.4
121 29.8 26.5 39.7



#34
Benzene
Concen: 101.479 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 78 Resp: 853279
Ion Ratio Lower Upper
78 100
77 22.5 18.0 27.0
51 16.7 12.4 18.6



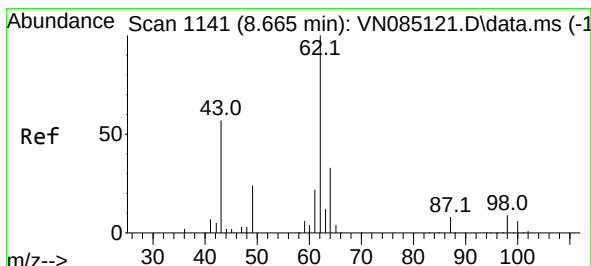
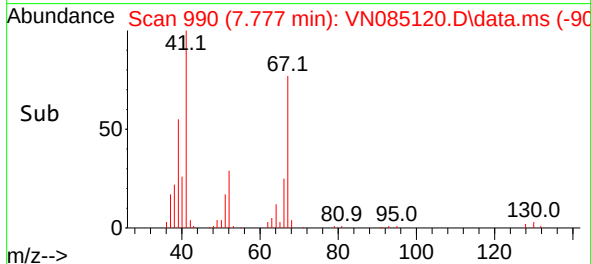
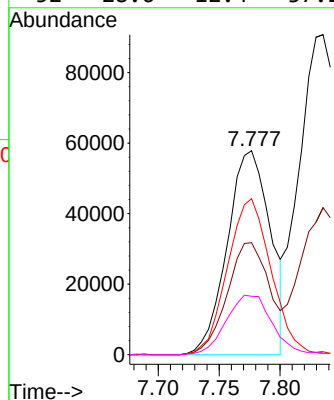
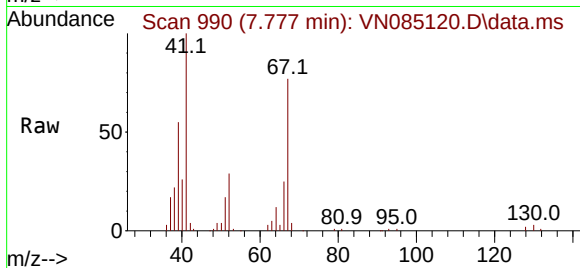


#35
Methacrylonitrile
Concen: 103.194 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 41 Resp: 142639

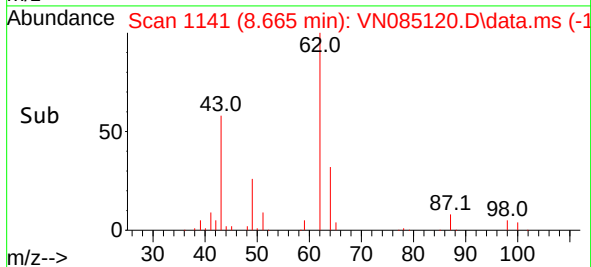
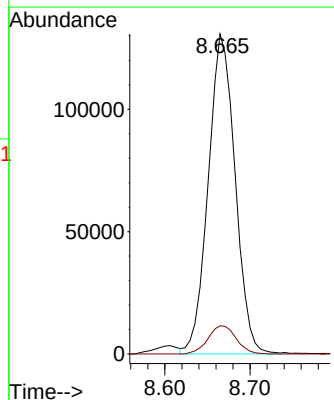
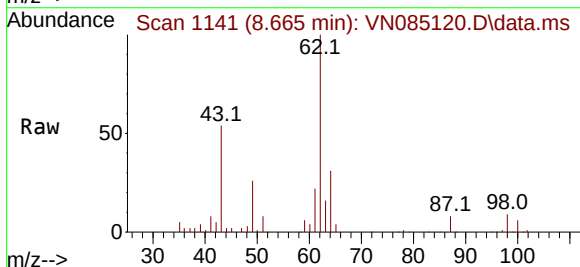
Ion	Ratio	Lower	Upper
41	100		
39	54.9	24.4	73.2
67	76.5	37.0	110.9
52	28.6	12.4	37.2

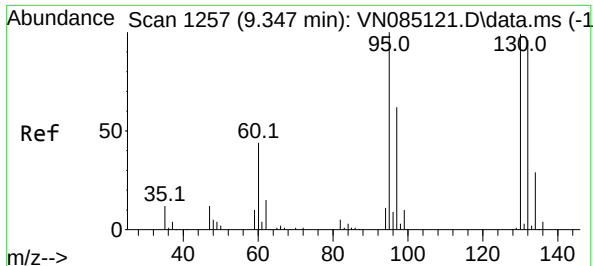


#36
1,2-Dichloroethane
Concen: 100.087 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 62 Resp: 286487

Ion	Ratio	Lower	Upper
62	100		
98	9.2	7.3	10.9





#37

Trichloroethene

Concen: 103.077 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

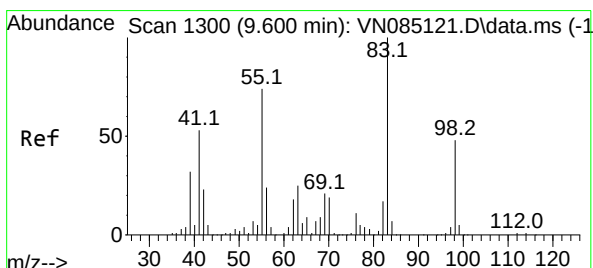
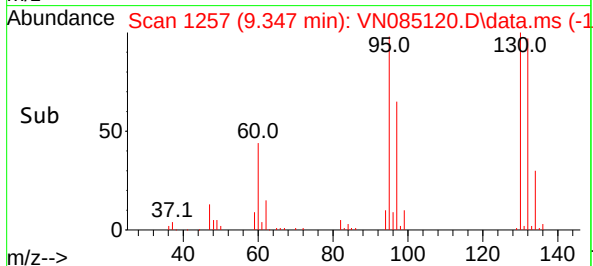
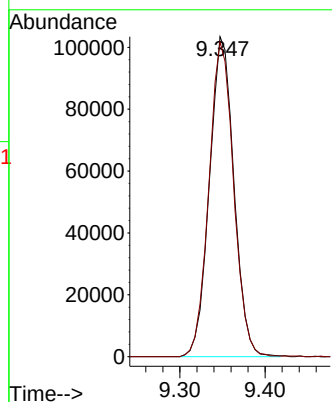
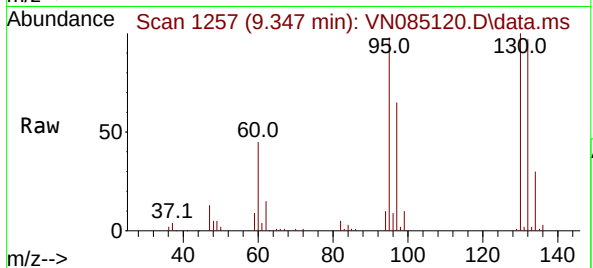
VSTDIC100

Tgt Ion:130 Resp: 206395

Ion Ratio Lower Upper

130 100

95 98.3 76.2 114.4



#38

Methylcyclohexane

Concen: 110.090 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

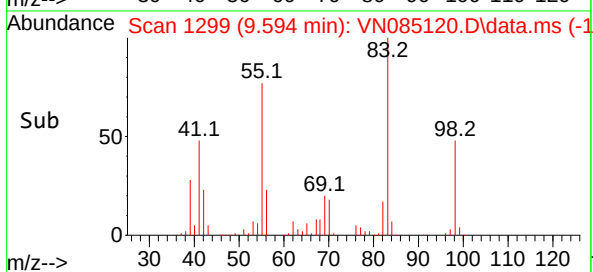
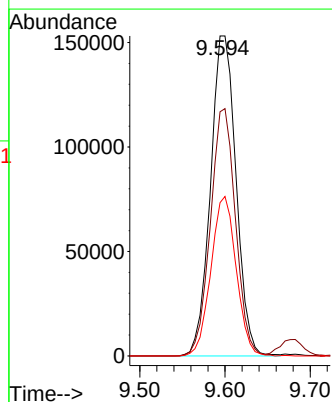
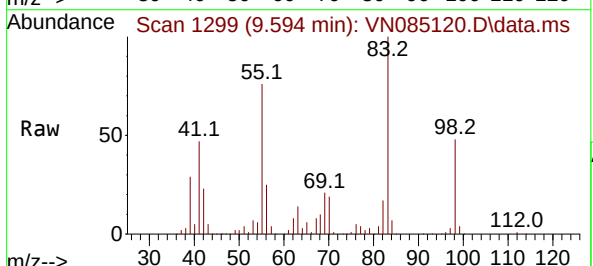
Tgt Ion: 83 Resp: 320395

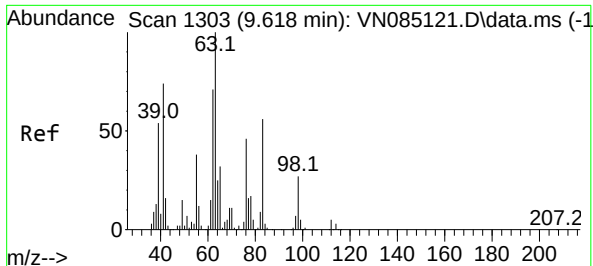
Ion Ratio Lower Upper

83 100

55 75.8 41.4 124.4

98 49.2 25.7 77.1

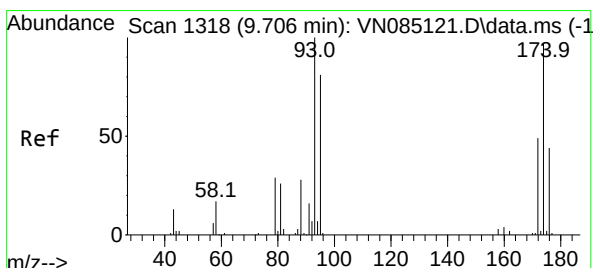
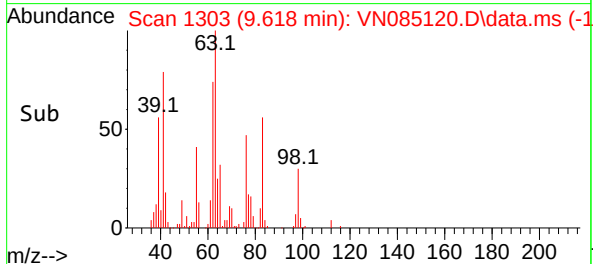
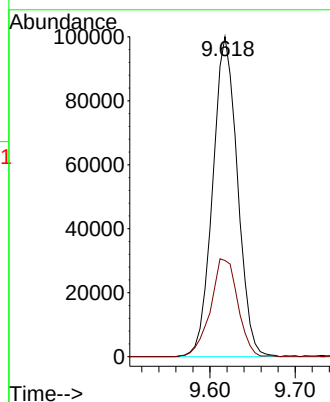
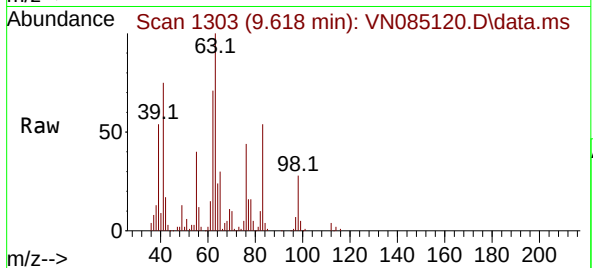




#39
1,2-Dichloropropane
Concen: 99.263 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

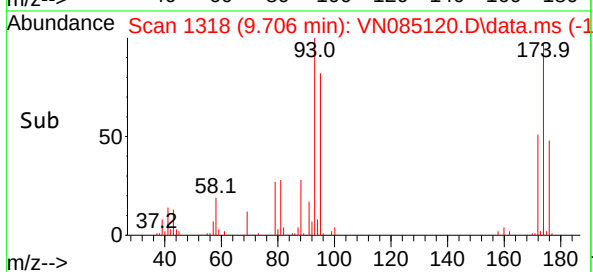
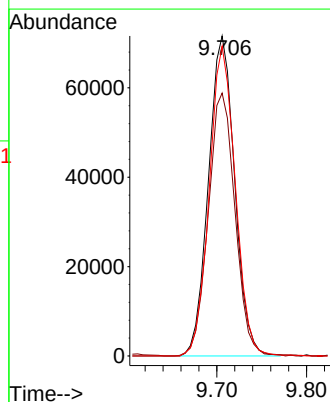
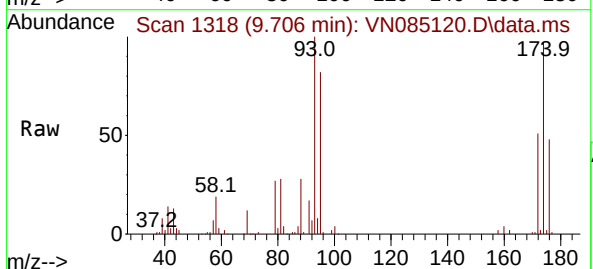
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

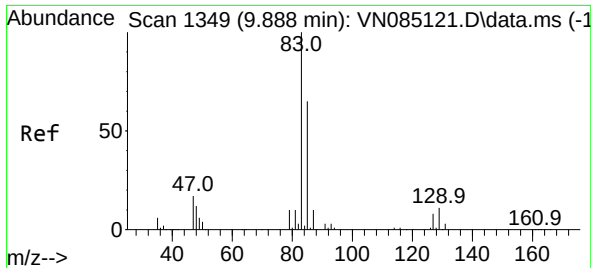
Tgt Ion: 63 Resp: 202160
Ion Ratio Lower Upper
63 100
65 30.0 23.4 35.0



#40
Dibromomethane
Concen: 99.515 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 93 Resp: 145378
Ion Ratio Lower Upper
93 100
95 83.7 0.0 169.4
174 95.7 0.0 189.8

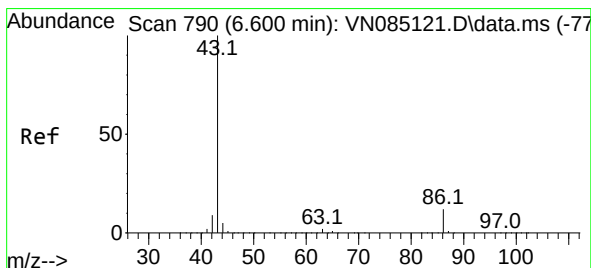
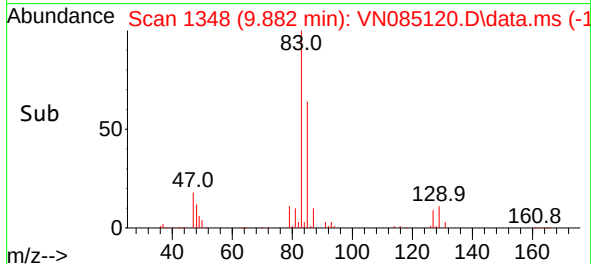
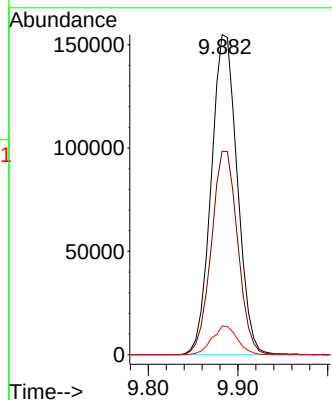
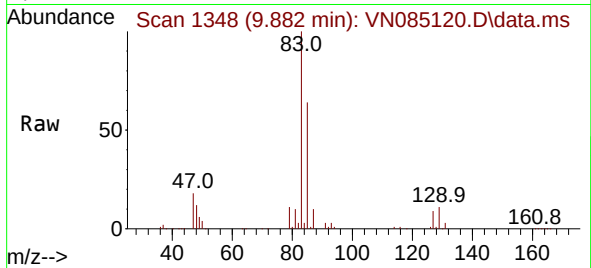




#41
Bromodichloromethane
Concen: 100.007 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

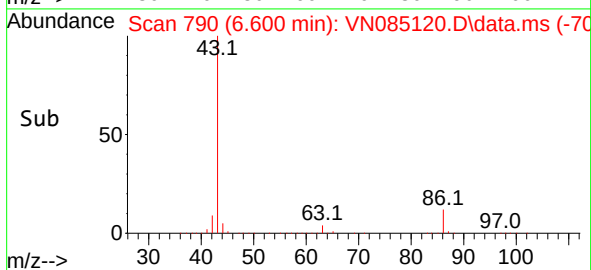
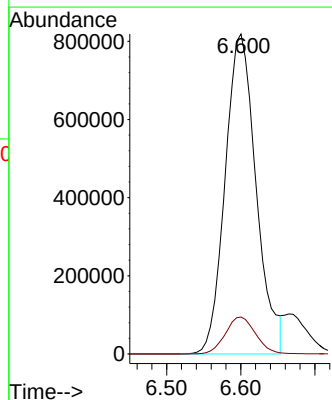
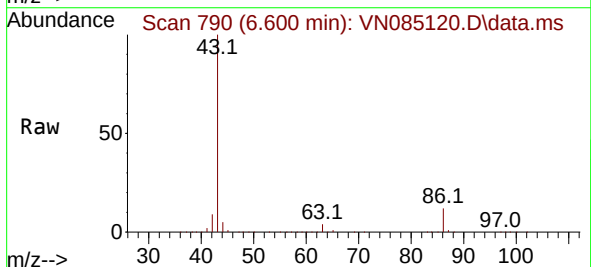
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

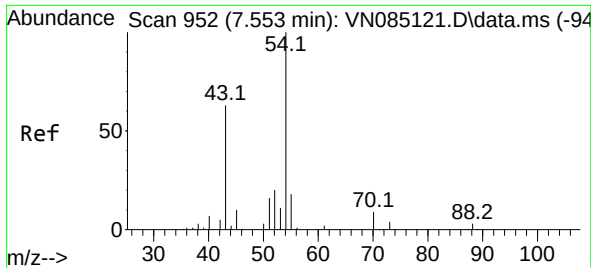
Tgt Ion: 83 Resp: 312321
Ion Ratio Lower Upper
83 100
85 63.6 54.6 81.8
127 9.0 7.0 10.6



#42
Vinyl Acetate
Concen: 553.721 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 43 Resp: 2379940
Ion Ratio Lower Upper
43 100
86 11.3 9.2 13.8

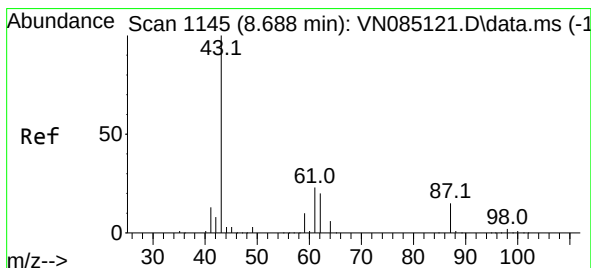
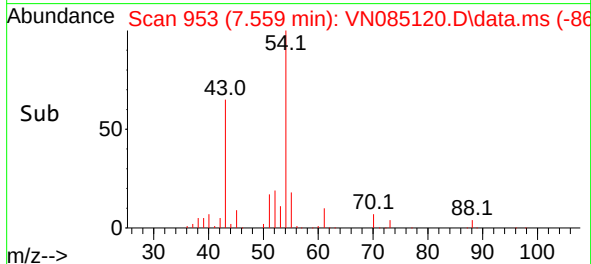
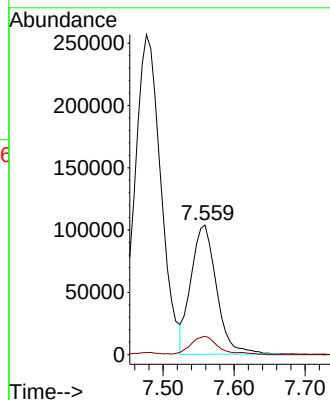
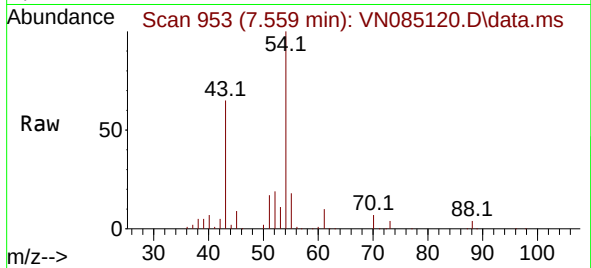




#43
Ethyl Acetate
Concen: 105.766 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

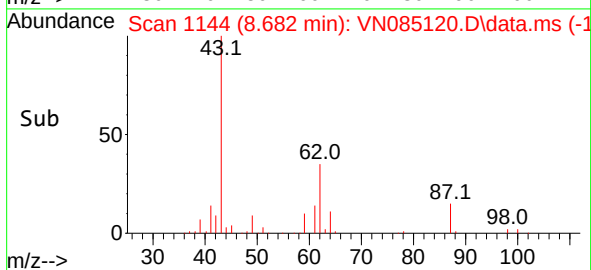
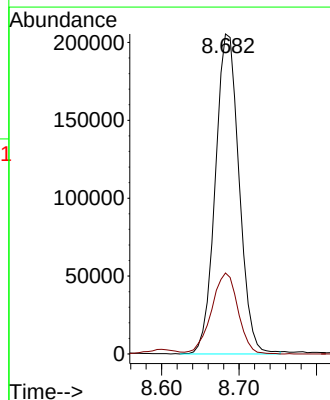
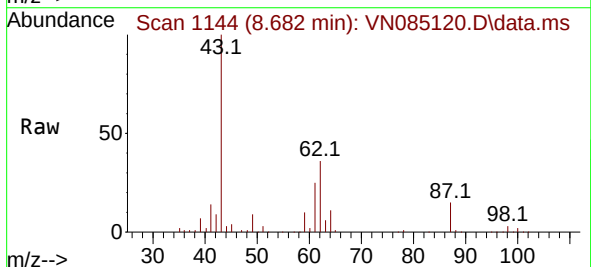
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

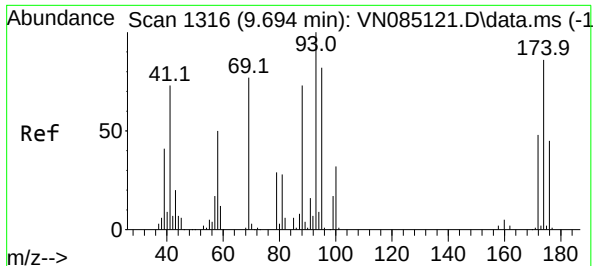
Tgt Ion: 43 Resp: 258485
Ion Ratio Lower Upper
43 100
45 14.5 13.3 19.9



#44
Isopropyl Acetate
Concen: 103.239 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 43 Resp: 438465
Ion Ratio Lower Upper
43 100
61 28.2 21.5 32.3

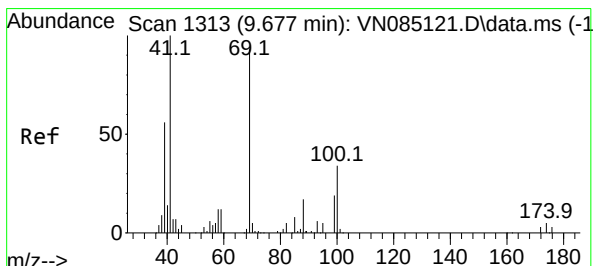
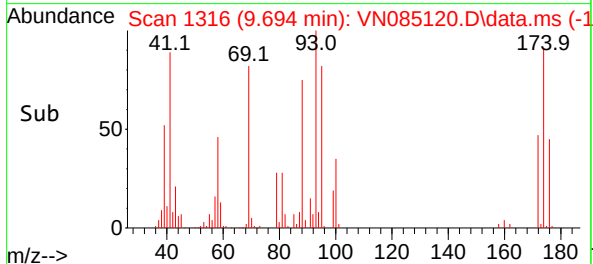
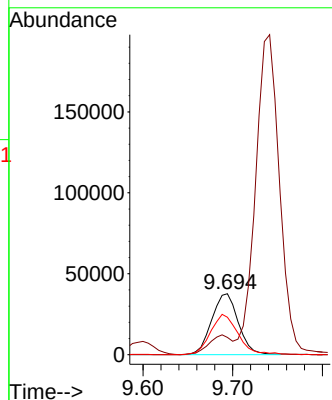
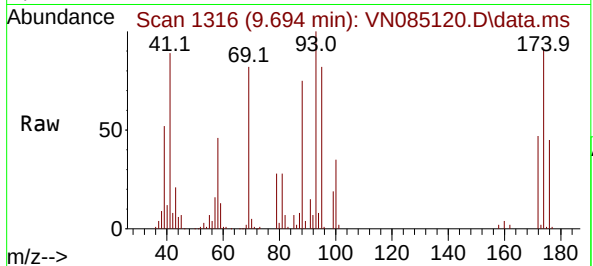




#45
1,4-Dioxane
Concen: 2192.363 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

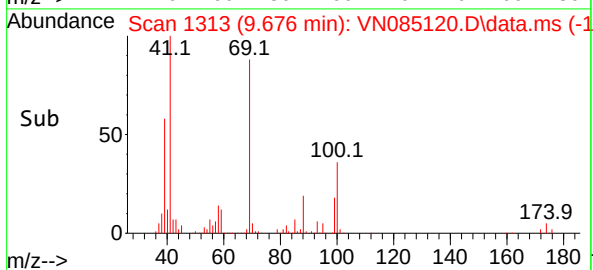
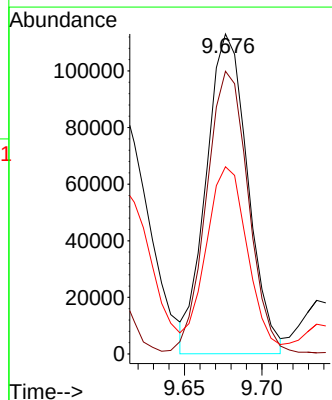
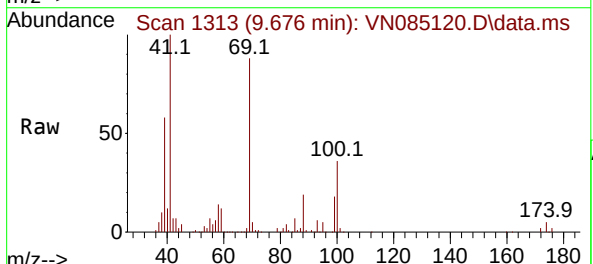
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

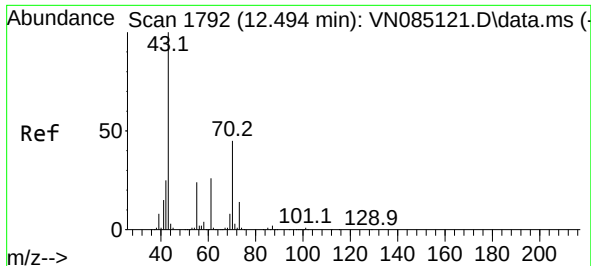
Tgt Ion: 88 Resp: 77646
Ion Ratio Lower Upper
88 100
43 27.5 21.7 32.5
58 68.9 52.6 79.0



#46
Methyl methacrylate
Concen: 108.543 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 41 Resp: 210976
Ion Ratio Lower Upper
41 100
69 90.2 46.7 140.0
39 58.4 28.5 85.5

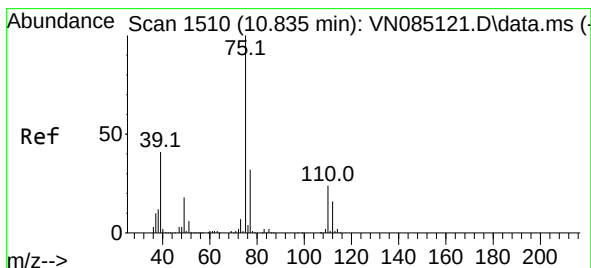
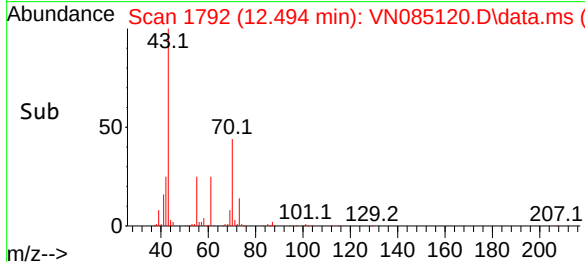
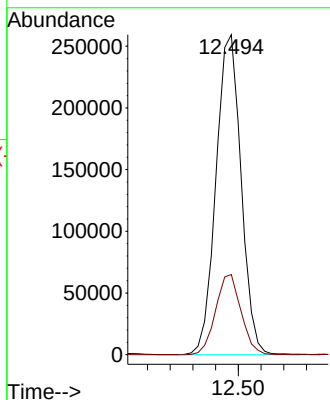
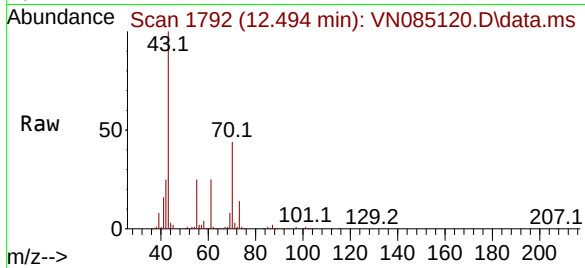




#47
n-amyl acetate
Concen: 111.404 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

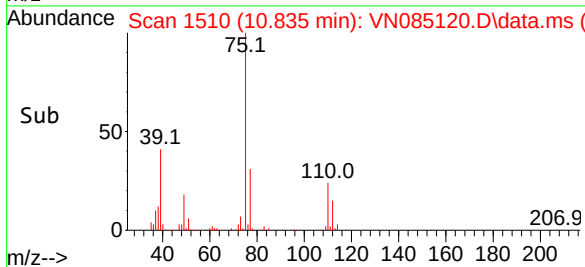
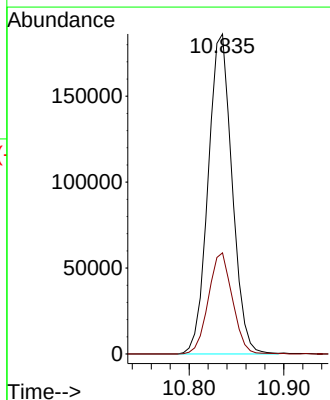
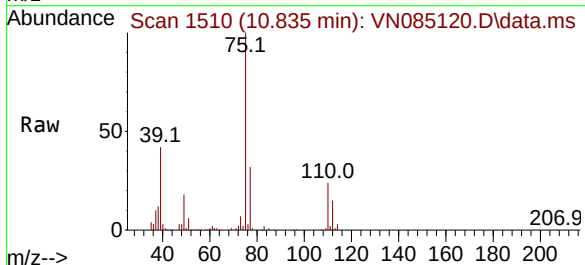
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

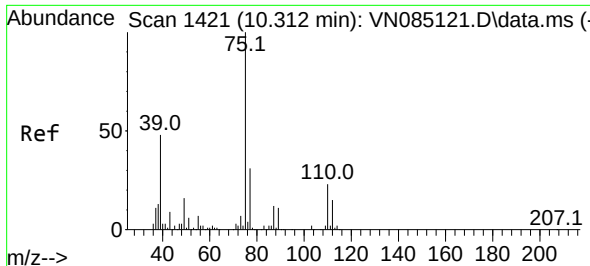
Tgt Ion: 43 Resp: 398085
Ion Ratio Lower Upper
43 100
55 25.3 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 106.805 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 75 Resp: 327429
Ion Ratio Lower Upper
75 100
77 31.6 25.5 38.3

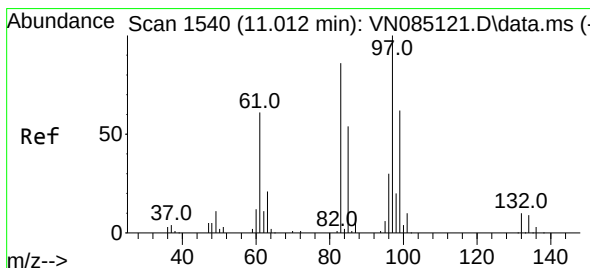
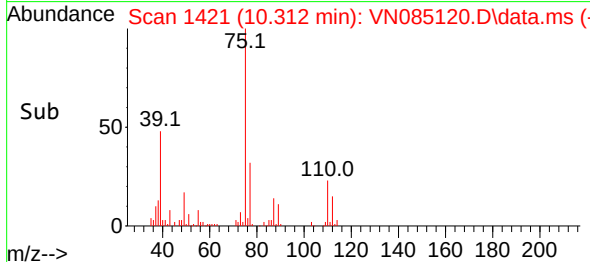
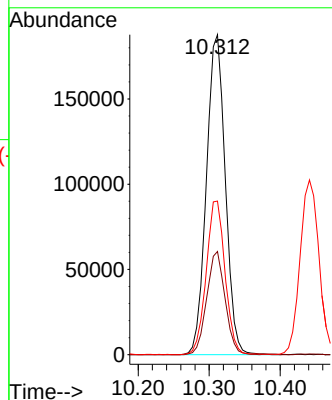
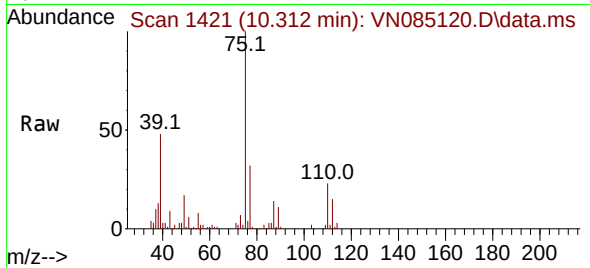




#49
 cis-1,3-Dichloropropene
 Concen: 104.212 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

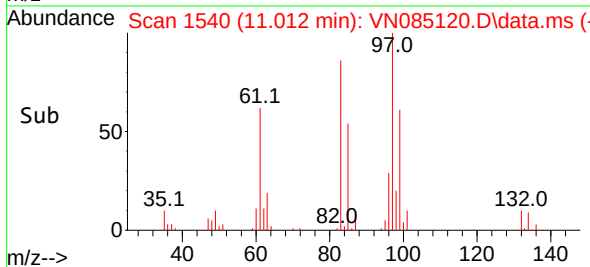
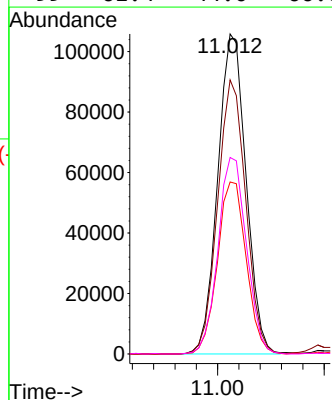
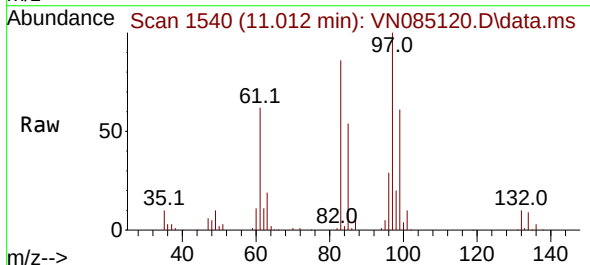
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

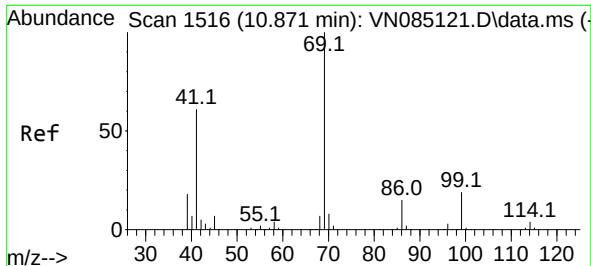
Tgt Ion:	75	Resp:	347791
Ion	Ratio	Lower	Upper
75	100		
77	32.2	23.8	35.6
39	48.0	37.3	55.9



#50
 1,1,2-Trichloroethane
 Concen: 99.153 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Tgt Ion:	97	Resp:	195188
Ion	Ratio	Lower	Upper
97	100		
83	85.6	65.8	98.8
85	53.8	40.8	61.2
99	61.4	44.0	66.0

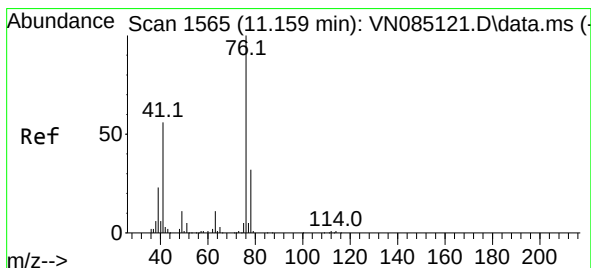
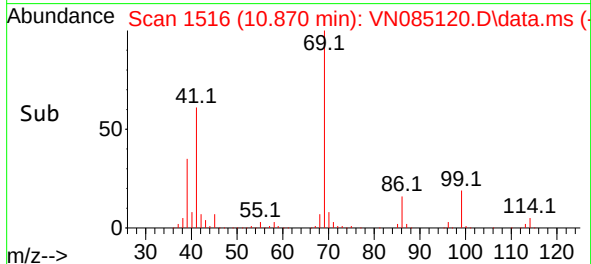
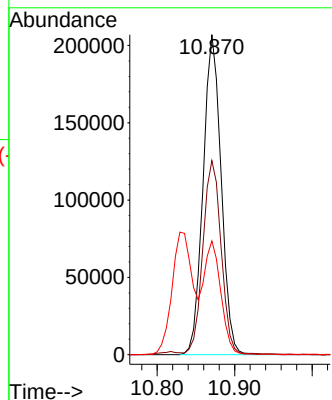
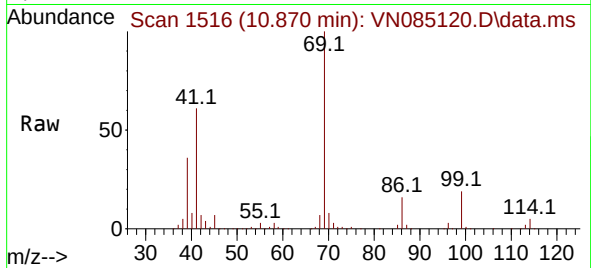




#51
Ethyl methacrylate
Concen: 112.054 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

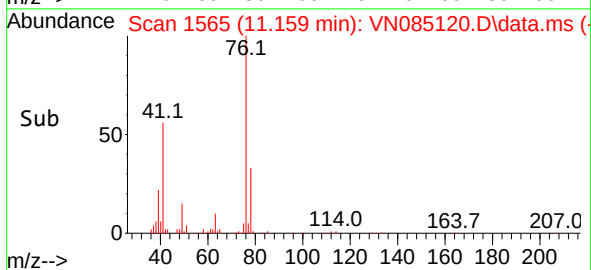
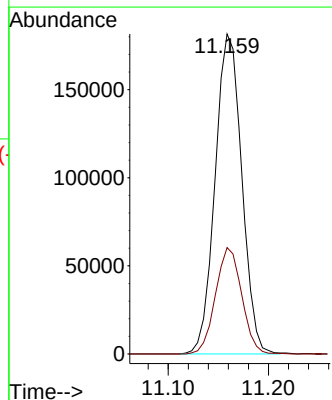
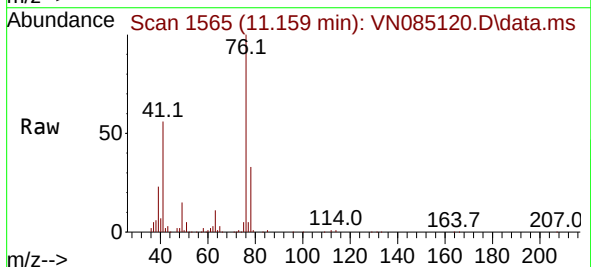
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

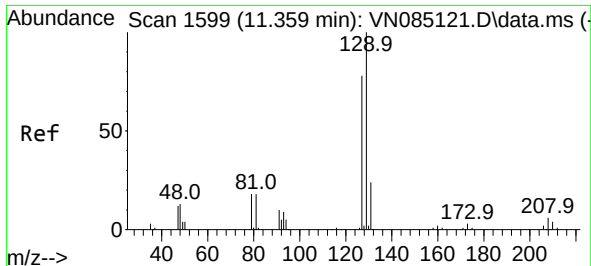
Tgt Ion: 69 Resp: 335501
Ion Ratio Lower Upper
69 100
41 60.5 32.1 96.3
39 35.4 18.8 56.4



#52
1,3-Dichloropropane
Concen: 101.938 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 76 Resp: 335834
Ion Ratio Lower Upper
76 100
78 32.6 0.0 65.6

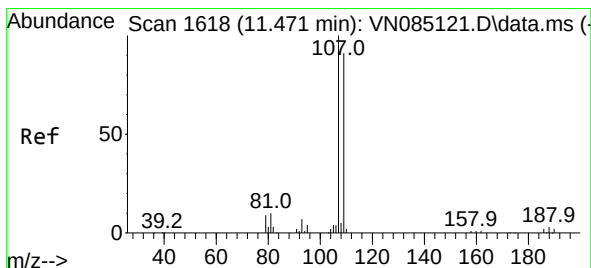
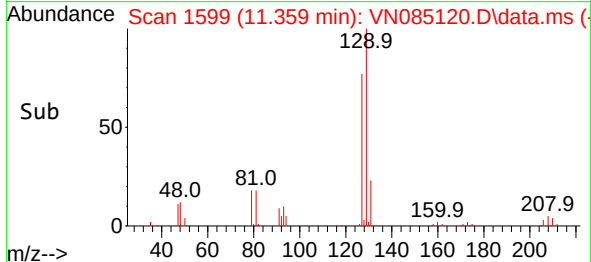
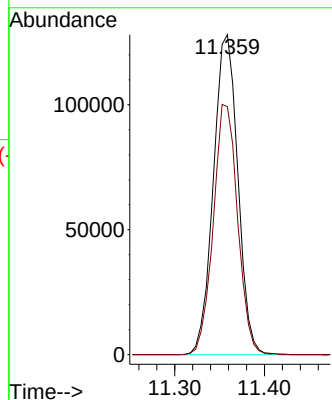
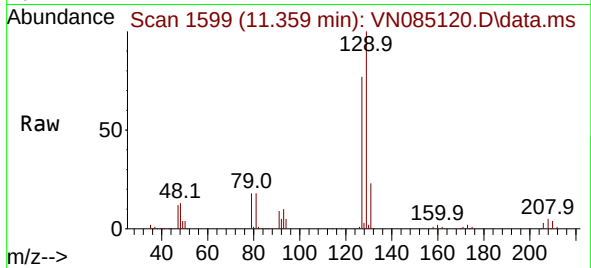




#53
Dibromochloromethane
Concen: 100.988 ug/l
RT: 11.359 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

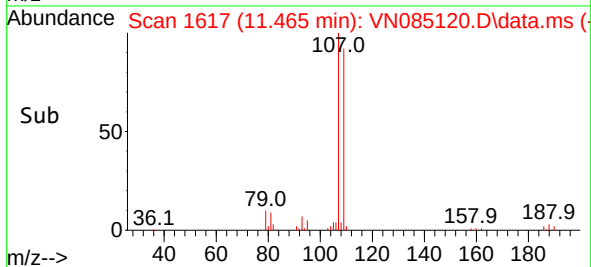
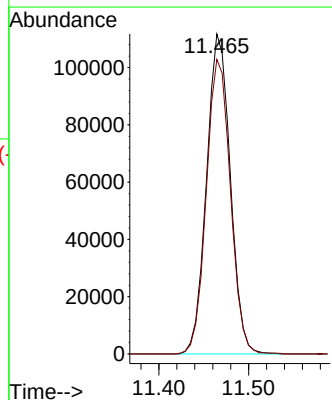
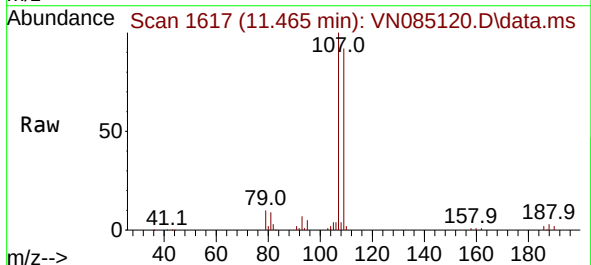
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

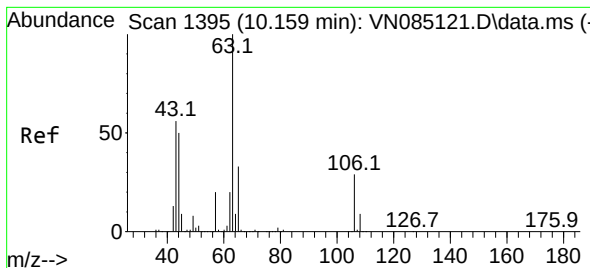
Tgt Ion:129 Resp: 242265
Ion Ratio Lower Upper
129 100
127 77.7 37.3 111.9



#54
1,2-Dibromoethane
Concen: 103.531 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:107 Resp: 205342
Ion Ratio Lower Upper
107 100
109 93.3 75.2 112.8

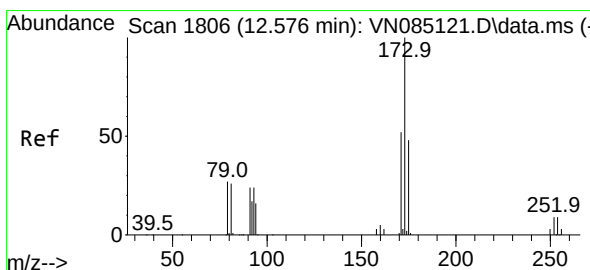
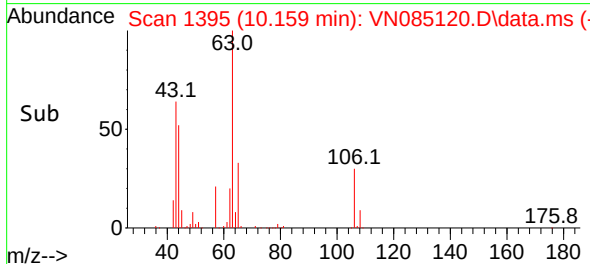
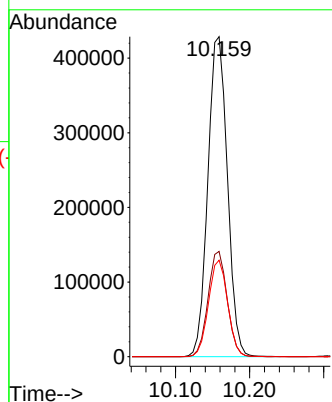
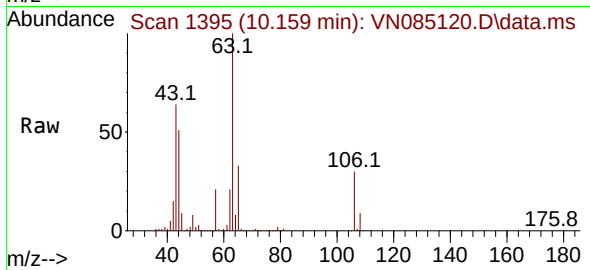




#55
2-Chloroethyl vinyl ether
Concen: 564.533 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

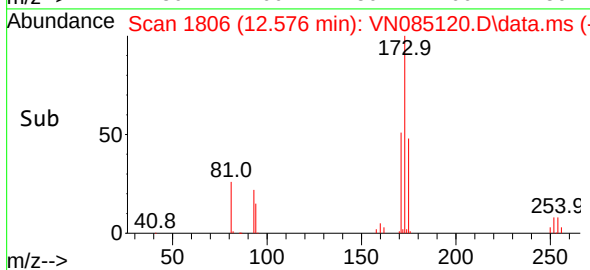
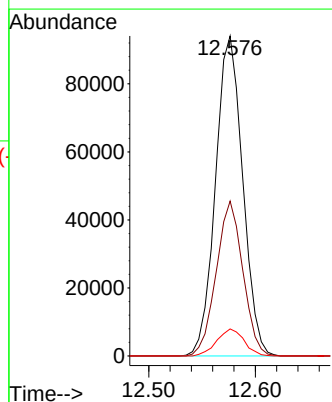
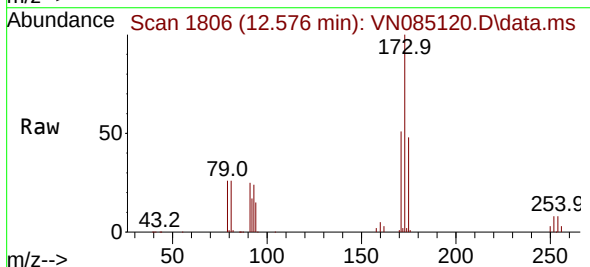
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

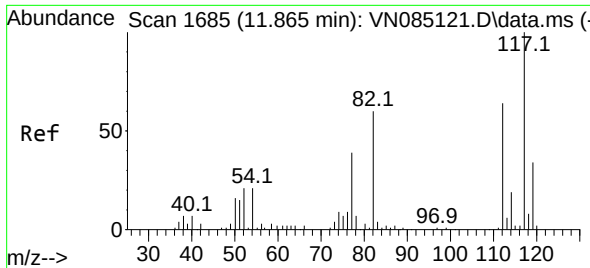
Tgt Ion: 63 Resp: 785193
Ion Ratio Lower Upper
63 100
65 32.2 25.9 38.9
106 29.6 23.5 35.3



#56
Bromoform
Concen: 103.616 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 173 Resp: 166661
Ion Ratio Lower Upper
173 100
175 47.4 40.2 60.2
254 8.5 6.2 9.4

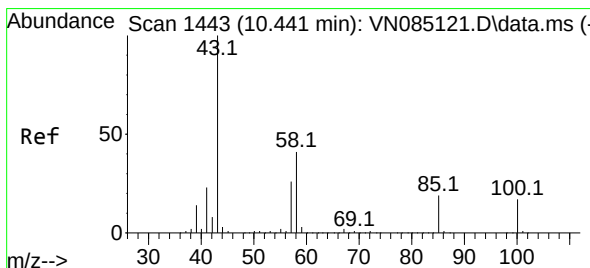
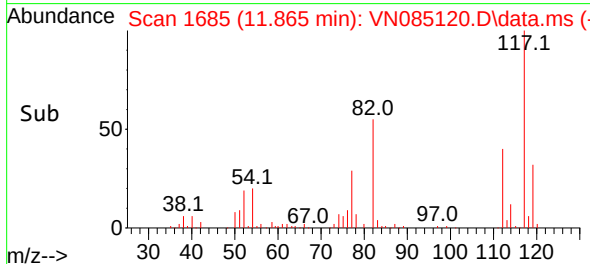
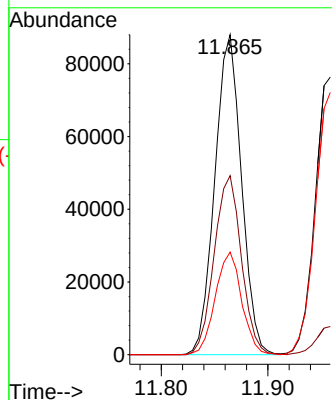
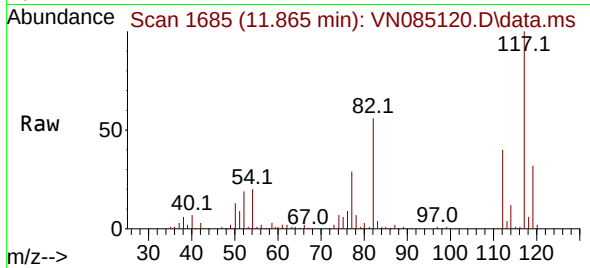




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

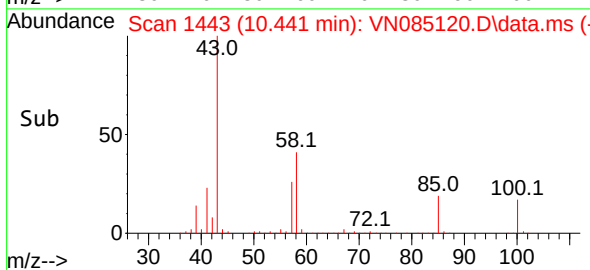
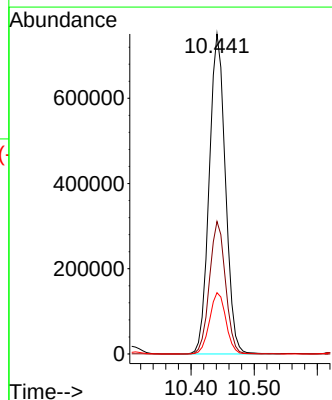
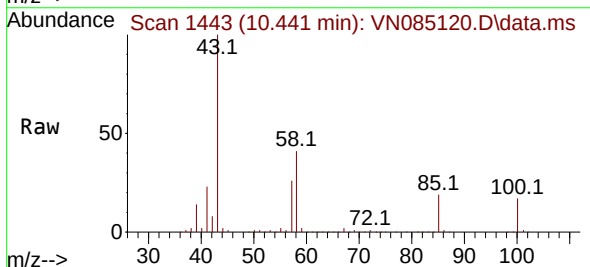
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

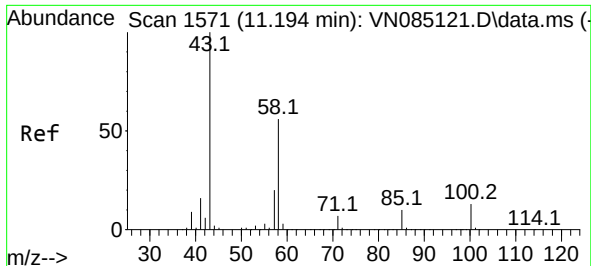
Tgt Ion:117 Resp: 153060
Ion Ratio Lower Upper
117 100
82 57.1 44.2 66.4
119 31.7 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 535.524 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 43 Resp: 1337734
Ion Ratio Lower Upper
43 100
58 40.9 31.6 47.4
85 19.3 15.0 22.6

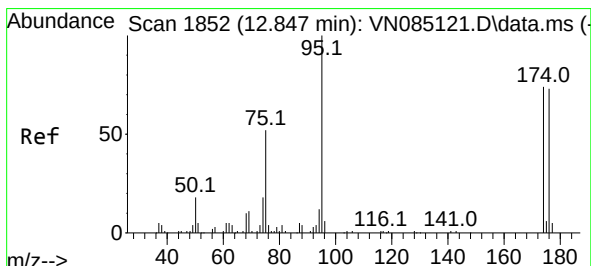
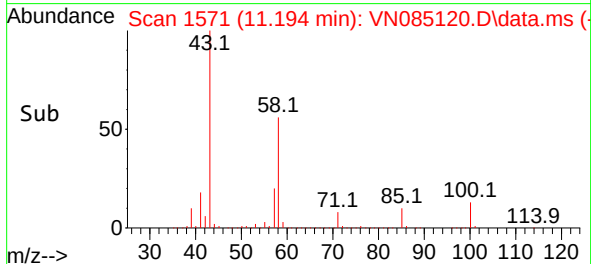
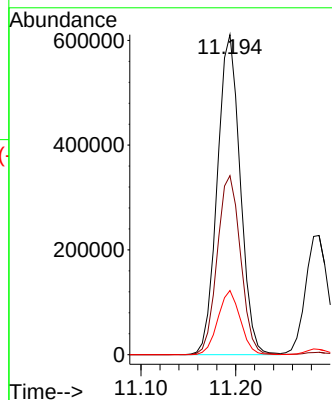
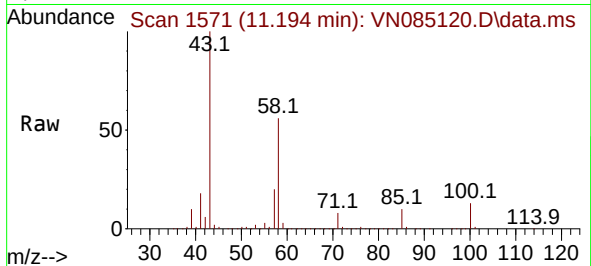




#59
2-Hexanone
Concen: 542.184 ug/l
RT: 11.194 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

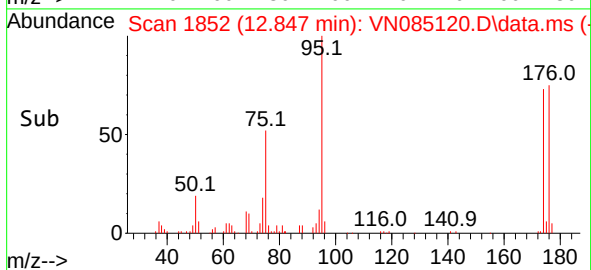
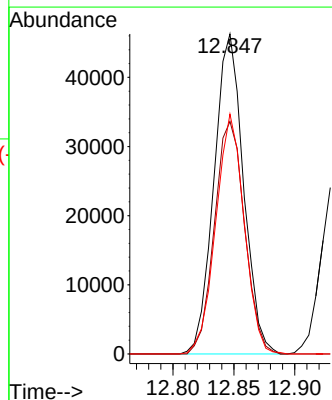
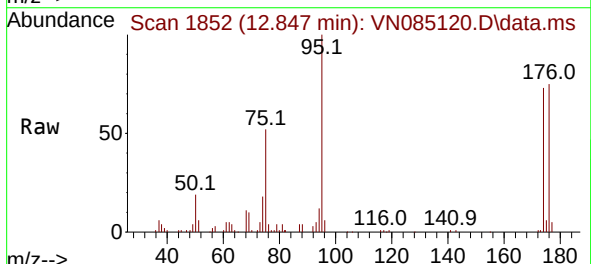
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

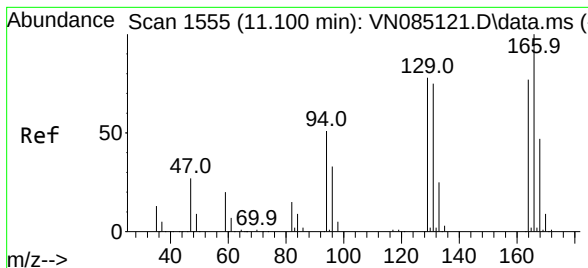
Tgt Ion: 43 Resp: 1026218
Ion Ratio Lower Upper
43 100
58 57.0 43.6 65.4
57 19.7 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 30.768 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 95 Resp: 77922
Ion Ratio Lower Upper
95 100
174 74.3 60.3 90.5
176 72.3 57.4 86.0

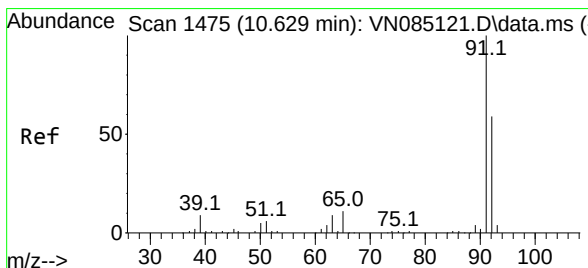
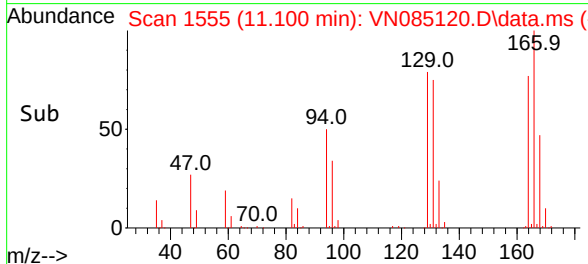
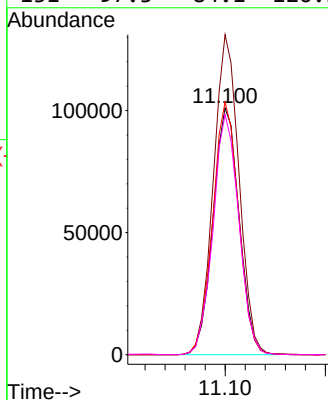
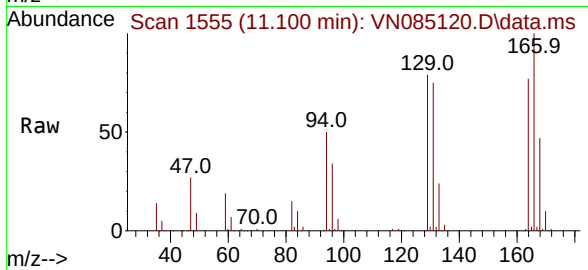




#61
Tetrachloroethene
Concen: 98.693 ug/l
RT: 11.100 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

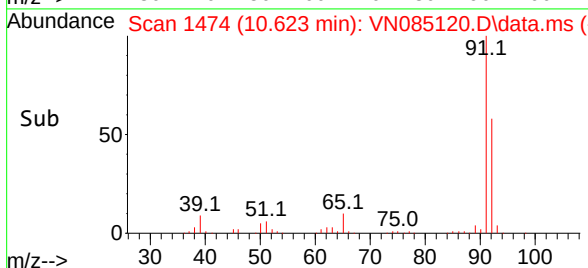
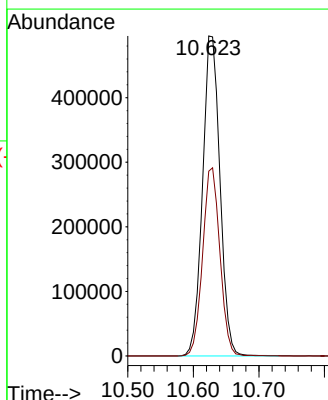
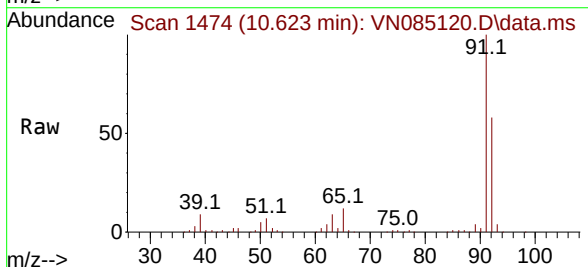
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

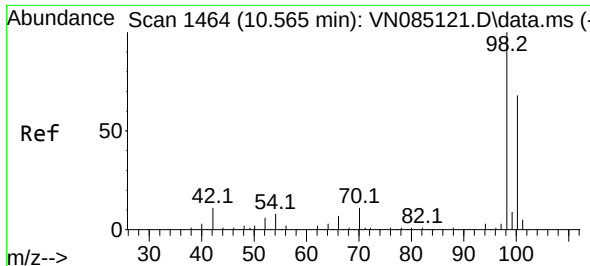
Tgt Ion:164 Resp: 182933
Ion Ratio Lower Upper
164 100
166 129.7 103.8 155.8
129 102.4 84.2 126.4
131 97.3 84.1 126.1



#62
Toluene
Concen: 102.798 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 91 Resp: 917622
Ion Ratio Lower Upper
91 100
92 58.2 46.5 69.7

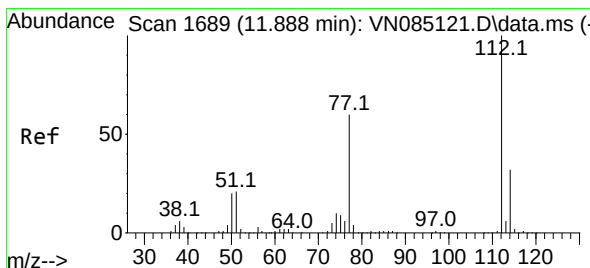
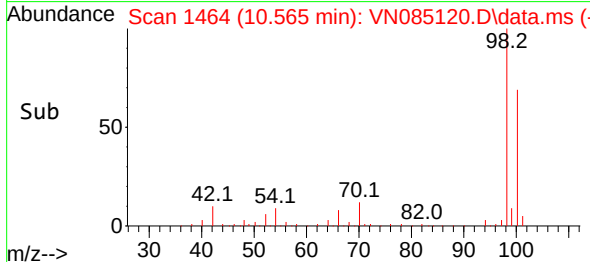
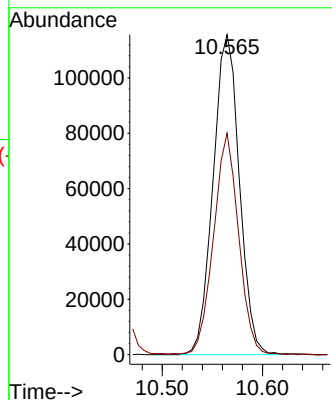
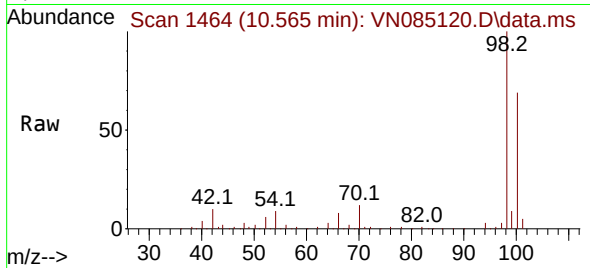




#63
Toluene-d8
Concen: 29.250 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

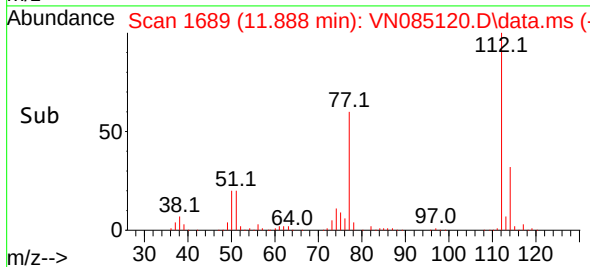
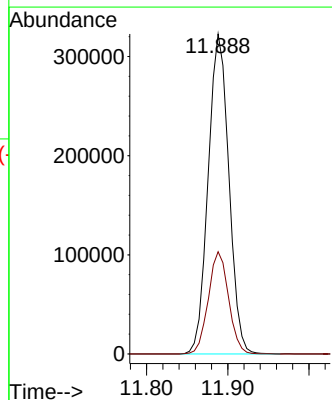
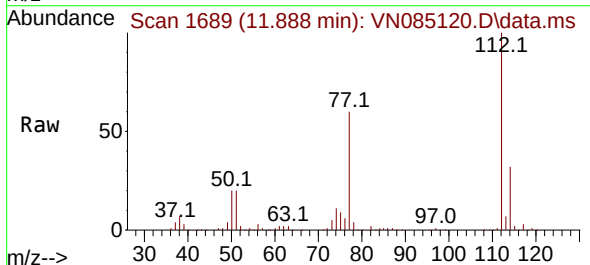
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

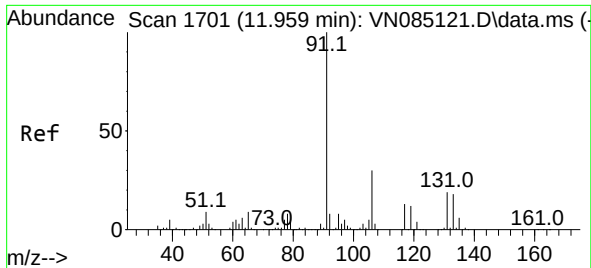
Tgt Ion: 98 Resp: 210008
Ion Ratio Lower Upper
98 100
100 65.9 52.0 78.0



#64
Chlorobenzene
Concen: 103.744 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 112 Resp: 571760
Ion Ratio Lower Upper
112 100
114 32.0 26.0 39.0

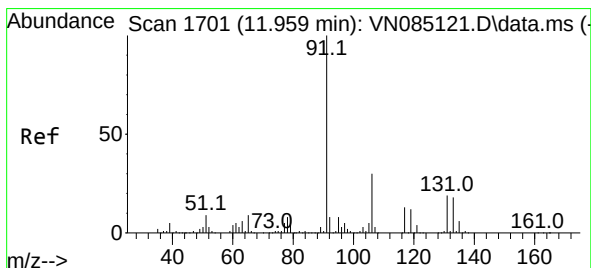
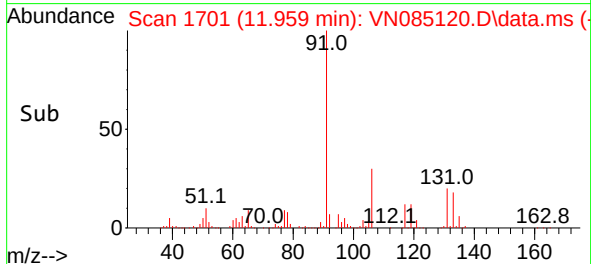
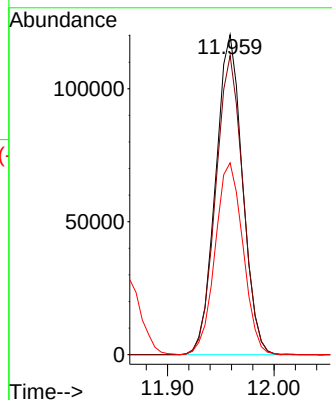
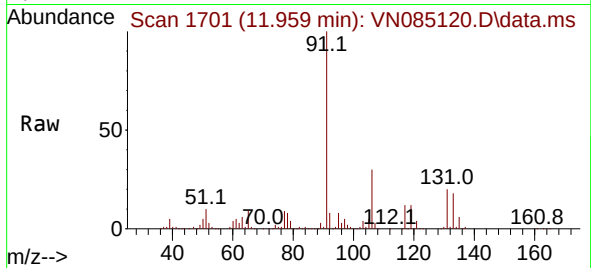




#65
 1,1,1,2-Tetrachloroethane
 Concen: 102.429 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

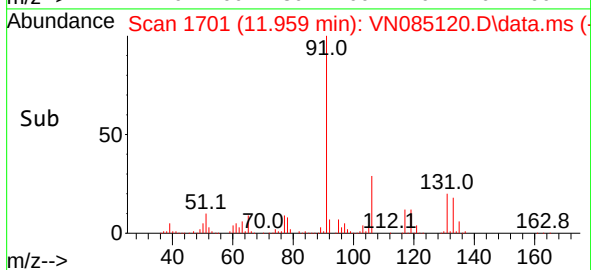
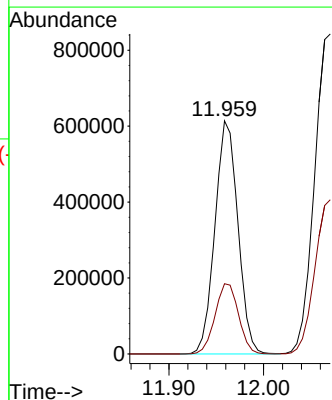
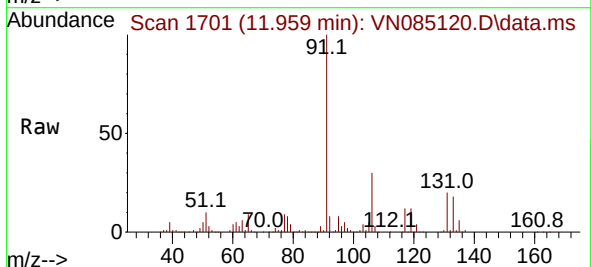
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

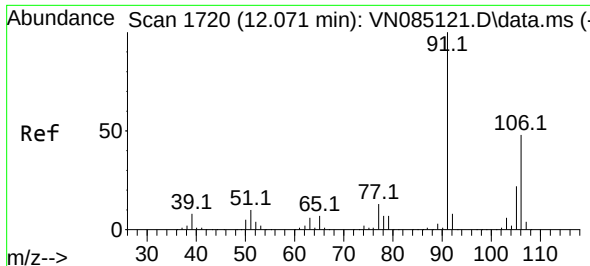
Tgt Ion:131 Resp: 210736
 Ion Ratio Lower Upper
 131 100
 133 94.6 0.0 194.0
 119 62.2 0.0 131.8



#66
 Ethyl Benzene
 Concen: 109.440 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.006 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Tgt Ion: 91 Resp: 1036629
 Ion Ratio Lower Upper
 91 100
 106 30.1 23.1 34.7

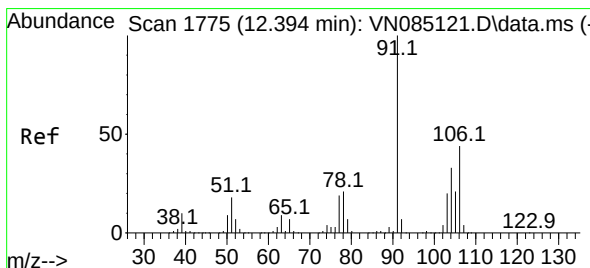
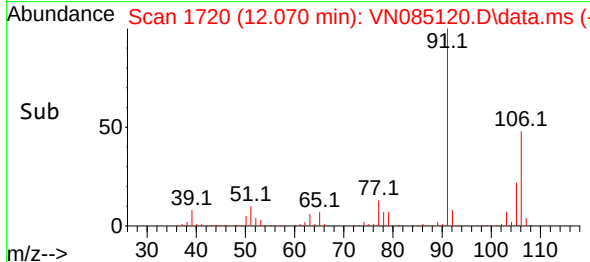
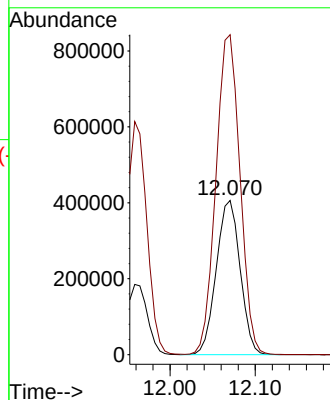
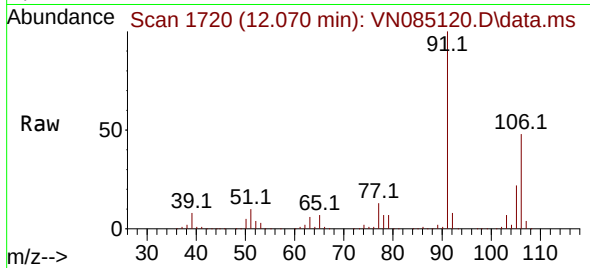




#67
m/p-Xylenes
Concen: 217.173 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

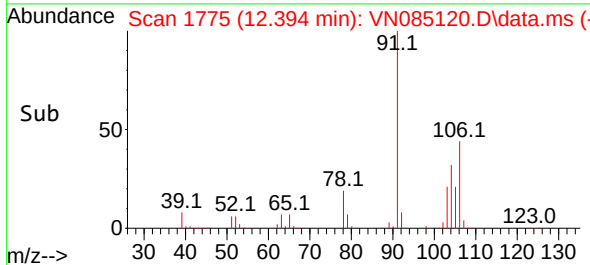
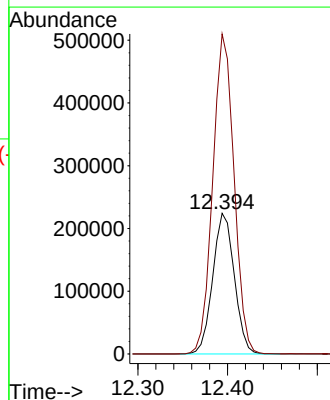
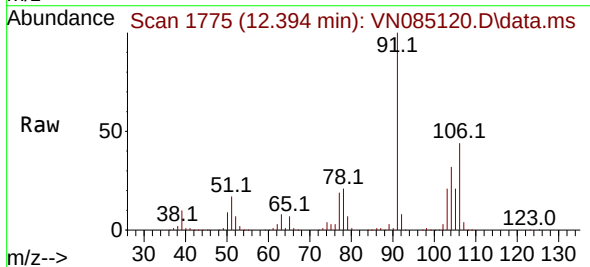
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

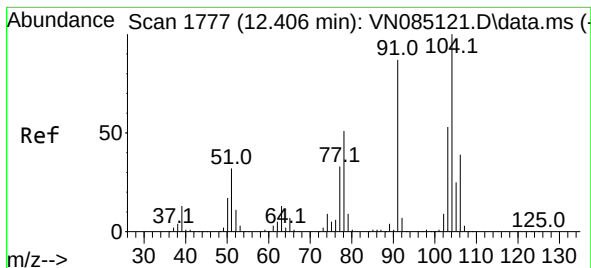
Tgt Ion:106 Resp: 791201
Ion Ratio Lower Upper
106 100
91 209.3 165.0 247.4



#68
o-Xylene
Concen: 109.449 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:106 Resp: 374478
Ion Ratio Lower Upper
106 100
91 224.3 112.1 336.4





#69

Styrene

Concen: 111.644 ug/l

RT: 12.406 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

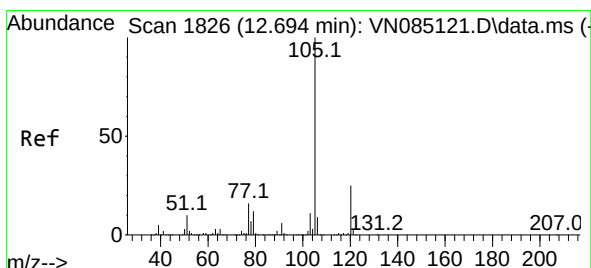
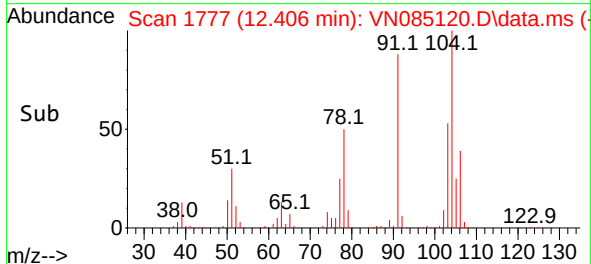
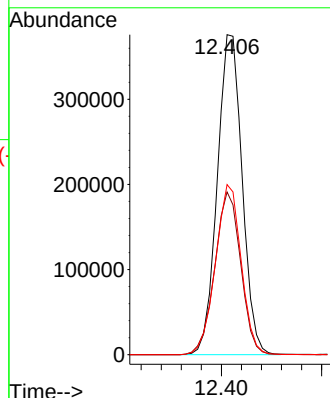
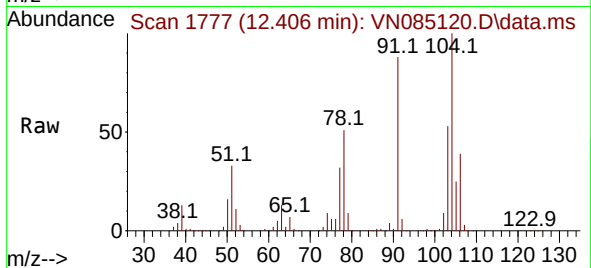
Tgt Ion:104 Resp: 648187

Ion Ratio Lower Upper

104 100

78 52.9 42.3 63.5

103 54.8 44.4 66.6



#70

Isopropylbenzene

Concen: 111.721 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085120.D

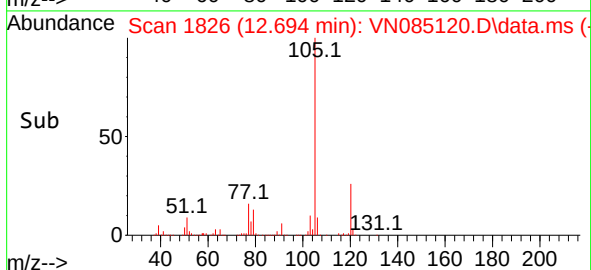
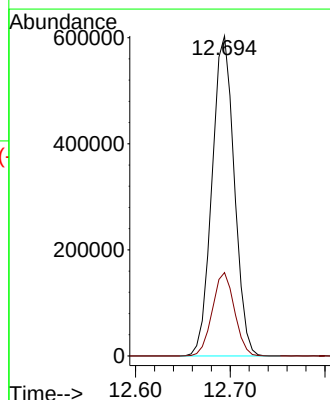
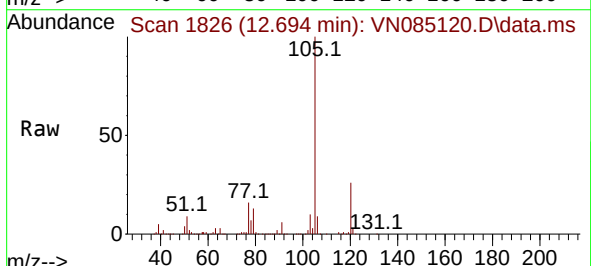
Acq: 06 Dec 2024 11:13

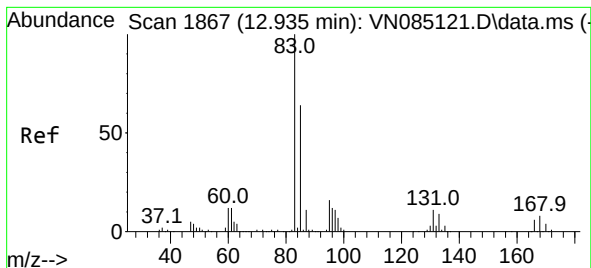
Tgt Ion:105 Resp: 985915

Ion Ratio Lower Upper

105 100

120 25.9 18.3 33.9

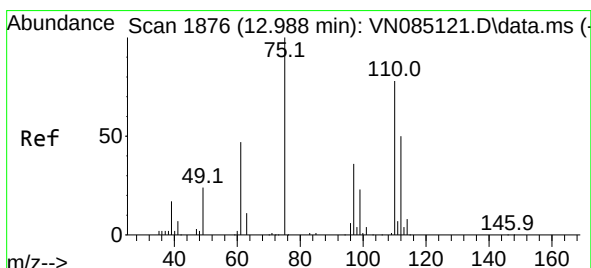
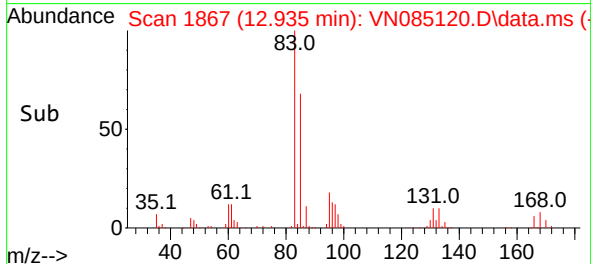
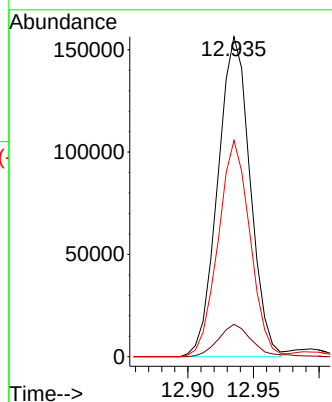
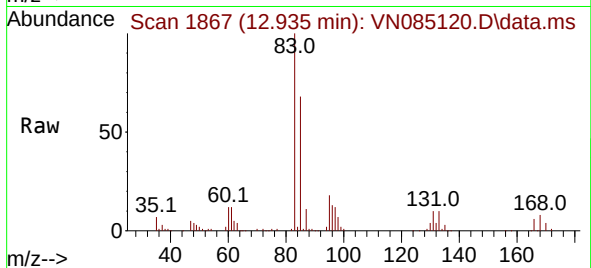




#71
1,1,2,2-Tetrachloroethane
Concen: 99.877 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

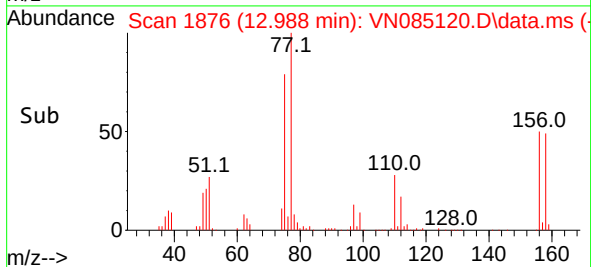
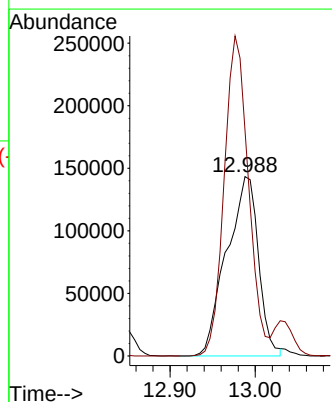
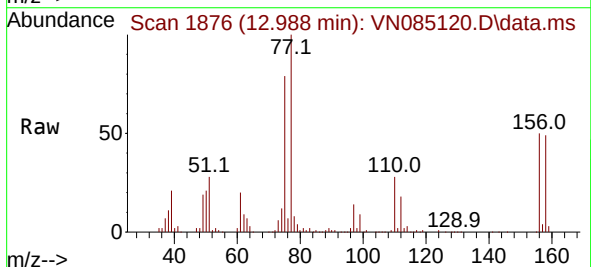
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

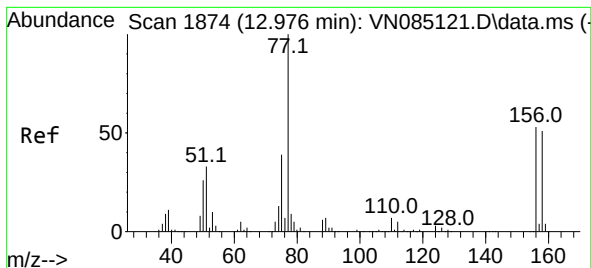
Tgt Ion: 83 Resp: 268272
Ion Ratio Lower Upper
83 100
131 10.6 5.1 15.3
85 66.6 31.1 93.5



#72
1,2,3-Trichloropropane
Concen: 140.036 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 75 Resp: 371562
Ion Ratio Lower Upper
75 100
77 136.9 0.0 339.0





#73

Bromobenzene

Concen: 106.648 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

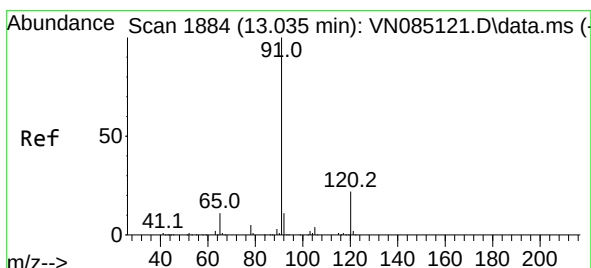
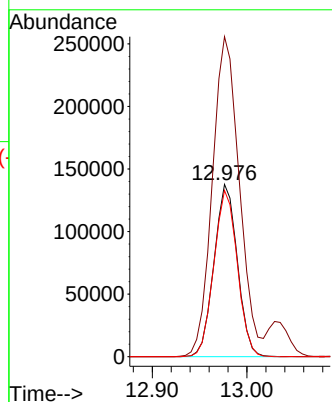
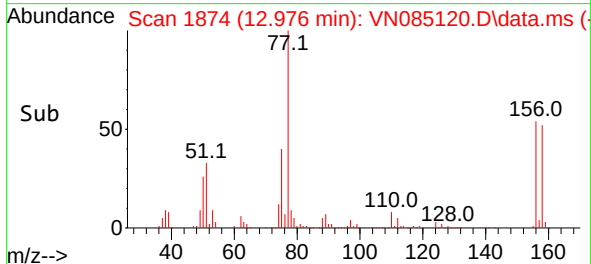
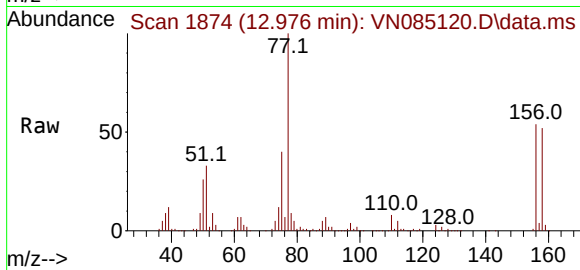
Tgt Ion:156 Resp: 235738

Ion Ratio Lower Upper

156 100

77 215.8 0.0 430.4

158 97.0 0.0 195.2



#74

n-propylbenzene

Concen: 109.952 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN085120.D

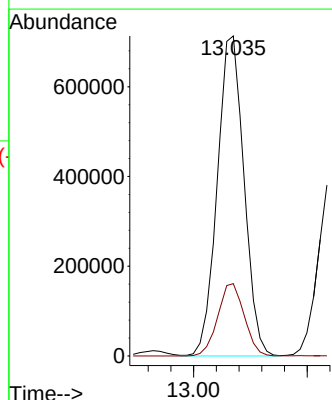
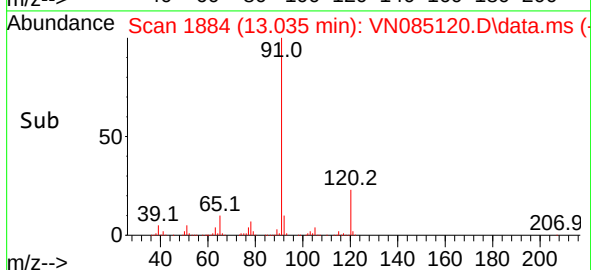
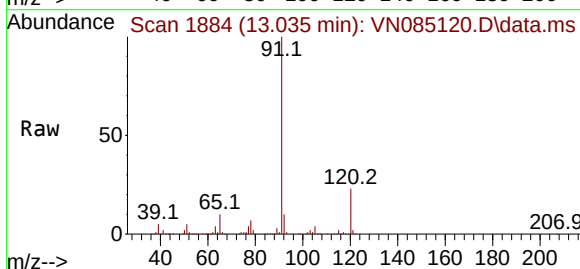
Acq: 06 Dec 2024 11:13

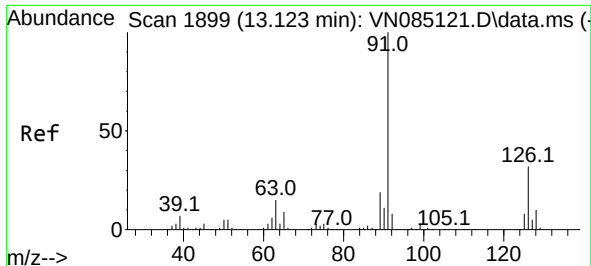
Tgt Ion: 91 Resp: 1166509

Ion Ratio Lower Upper

91 100

120 22.3 0.0 44.0

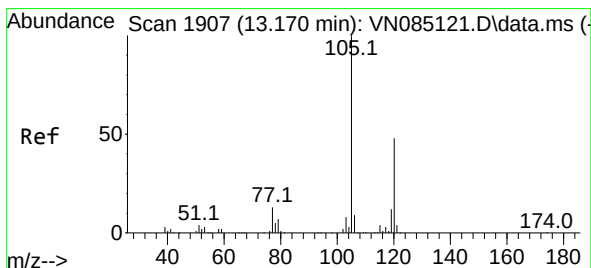
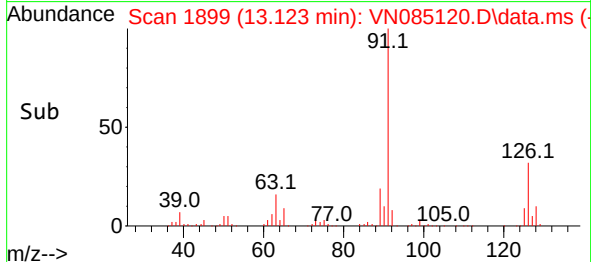
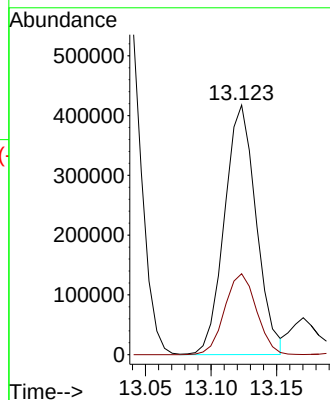
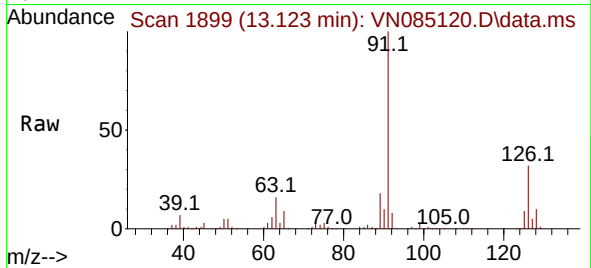




#75
2-Chlorotoluene
Concen: 107.179 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

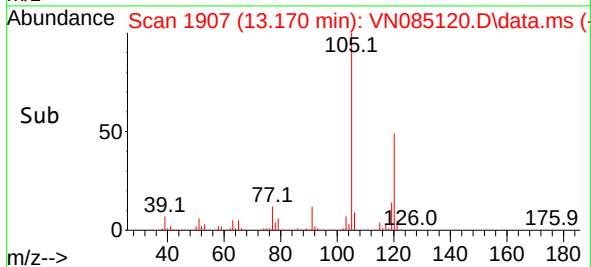
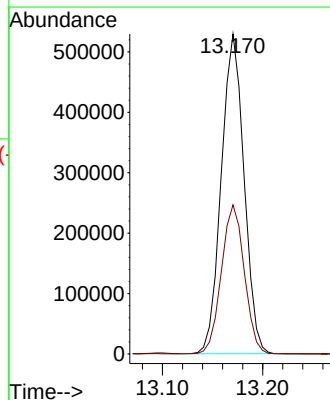
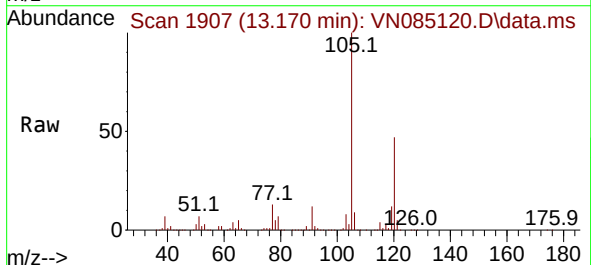
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

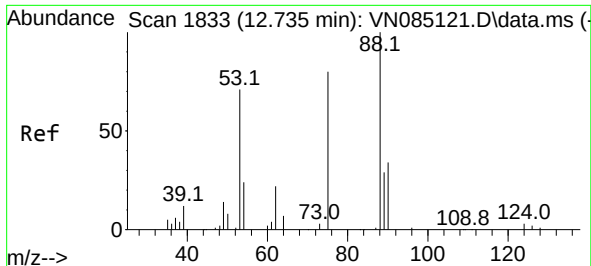
Tgt Ion: 91 Resp: 703050
Ion Ratio Lower Upper
91 100
126 32.5 0.0 64.2



#76
1,3,5-Trimethylbenzene
Concen: 110.018 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 105 Resp: 831794
Ion Ratio Lower Upper
105 100
120 47.0 0.0 94.4

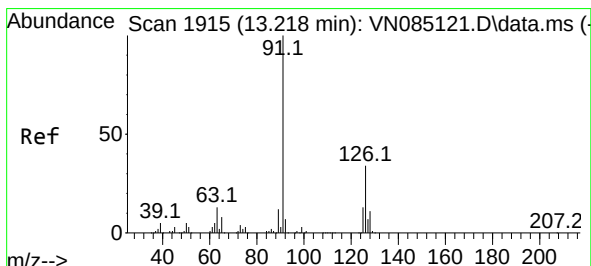
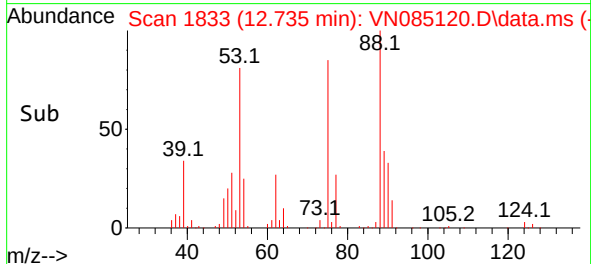
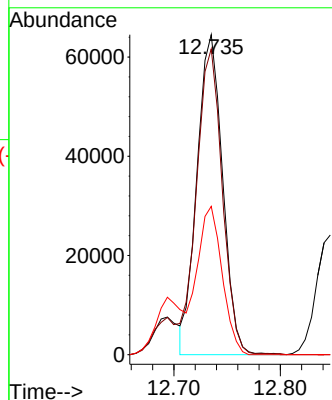
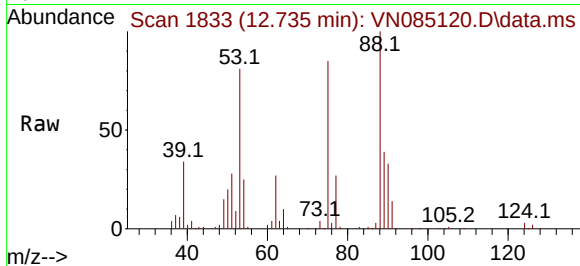




#77
t-1,4-Dichloro-2-butene
Concen: 111.976 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

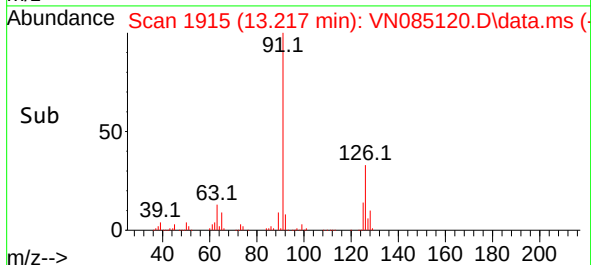
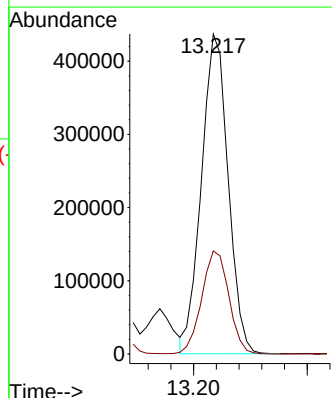
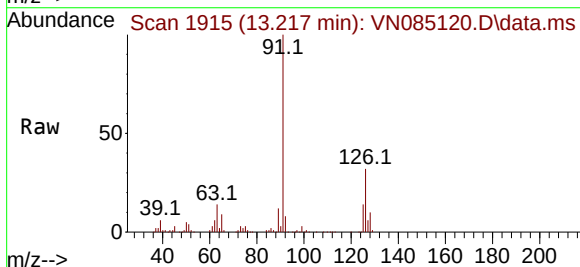
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

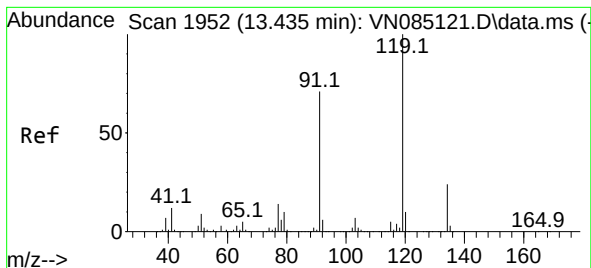
Tgt Ion: 75 Resp: 107962
Ion Ratio Lower Upper
75 100
53 95.2 49.1 147.3
89 46.3 22.9 68.5



#78
4-Chlorotoluene
Concen: 107.197 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 91 Resp: 713716
Ion Ratio Lower Upper
91 100
126 32.7 0.0 64.4

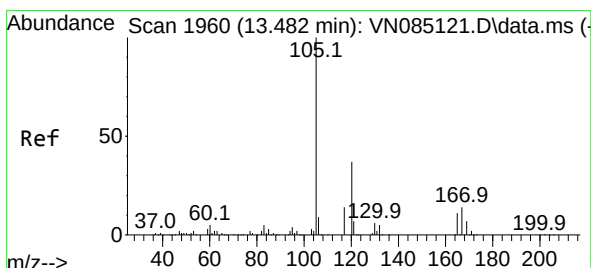
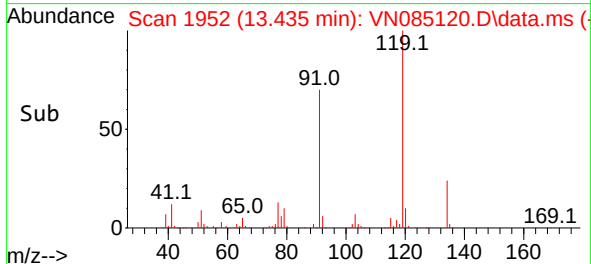
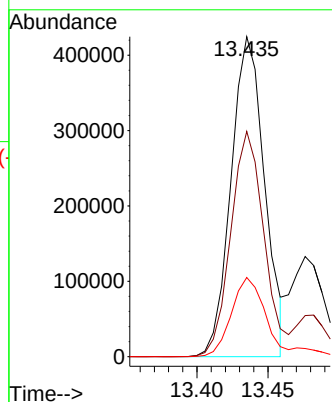
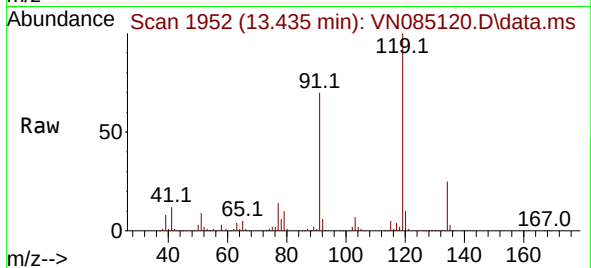




#79
tert-butylbenzene
Concen: 112.381 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

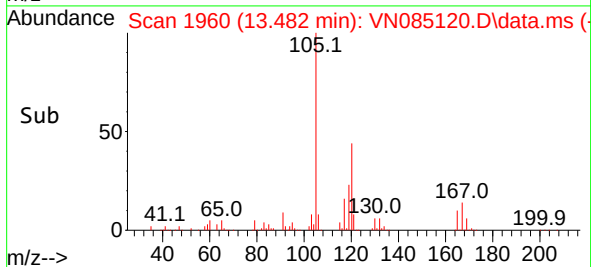
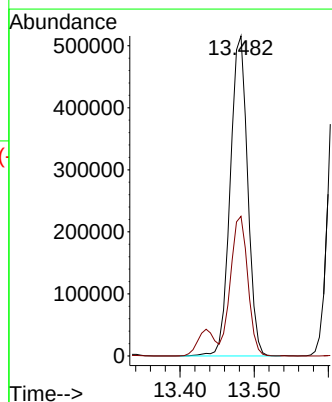
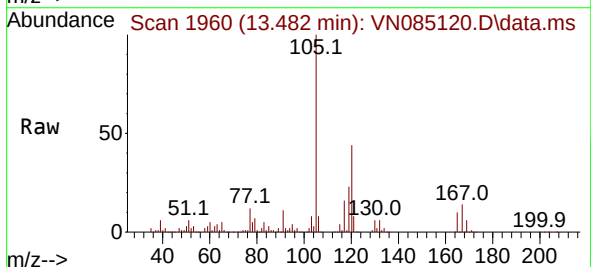
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

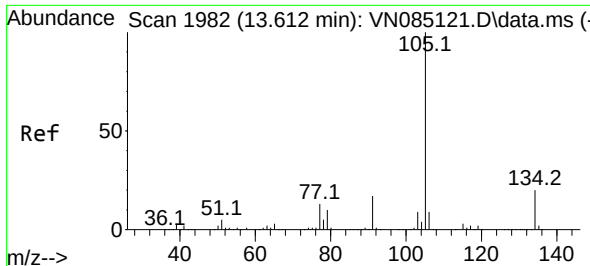
Tgt Ion:119 Resp: 697873
Ion Ratio Lower Upper
119 100
91 69.9 0.0 139.2
134 24.6 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 112.327 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:105 Resp: 838873
Ion Ratio Lower Upper
105 100
120 43.3 0.0 87.4

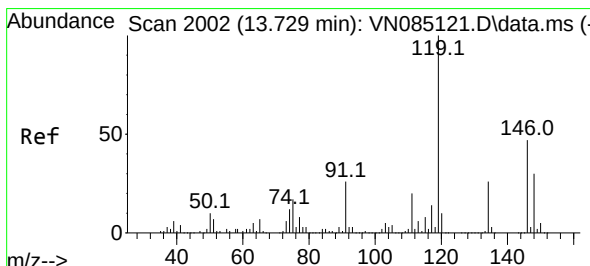
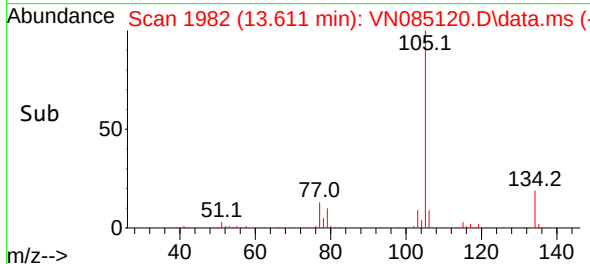
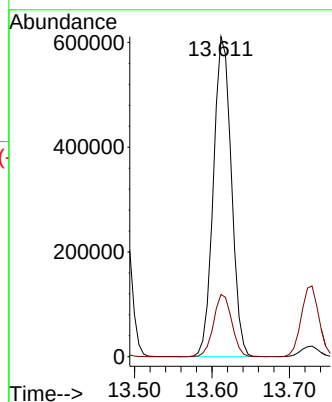
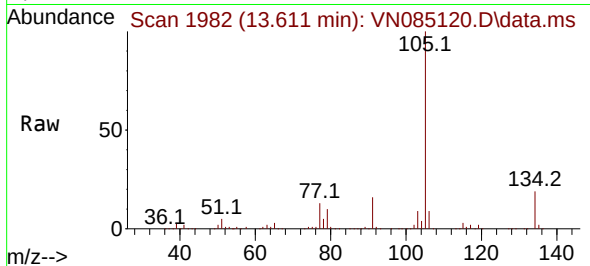




#81
 sec-Butylbenzene
 Concen: 111.460 ug/l
 RT: 13.611 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

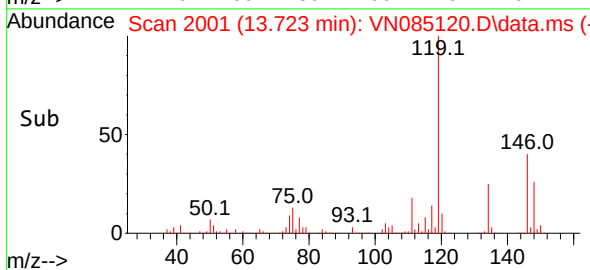
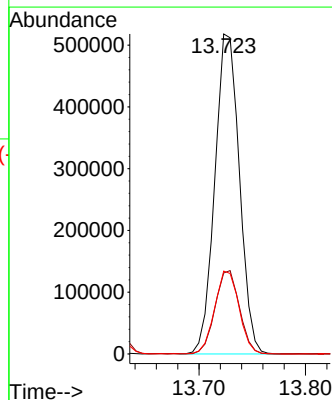
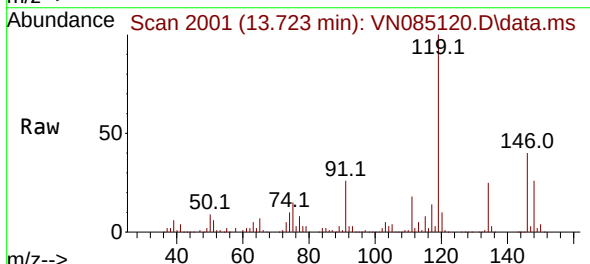
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

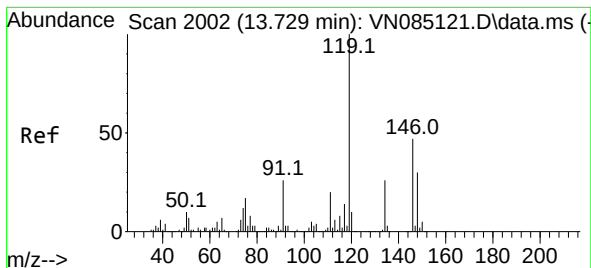
Tgt Ion:105 Resp: 983338
 Ion Ratio Lower Upper
 105 100
 134 19.7 0.0 38.0



#82
 p-Isopropyltoluene
 Concen: 113.406 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.006 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Tgt Ion:119 Resp: 829472
 Ion Ratio Lower Upper
 119 100
 134 25.8 0.0 51.6
 91 25.7 0.0 50.4





#83

1,3-Dichlorobenzene

Concen: 105.881 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

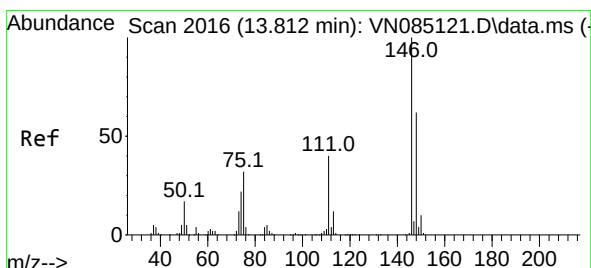
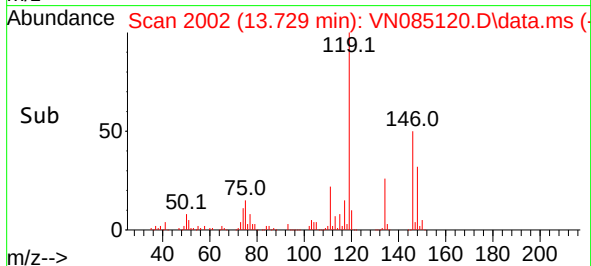
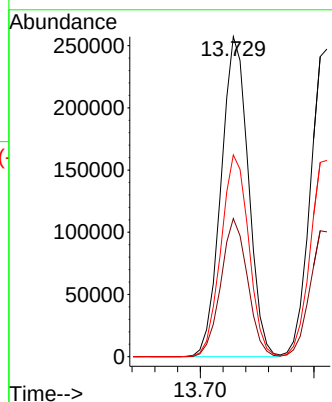
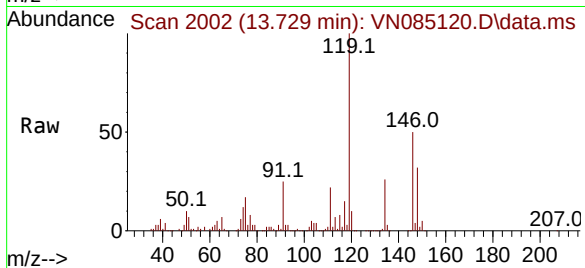
Tgt Ion:146 Resp: 429389

Ion Ratio Lower Upper

146 100

111 42.1 21.1 63.3

148 64.0 31.8 95.3



#84

1,4-Dichlorobenzene

Concen: 107.060 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085120.D

Acq: 06 Dec 2024 11:13

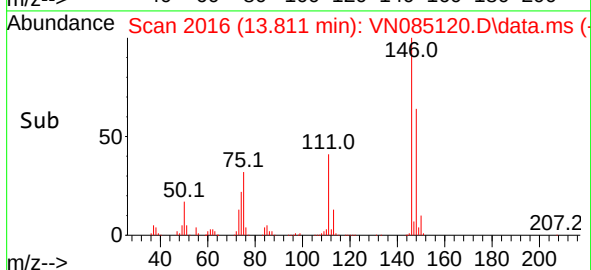
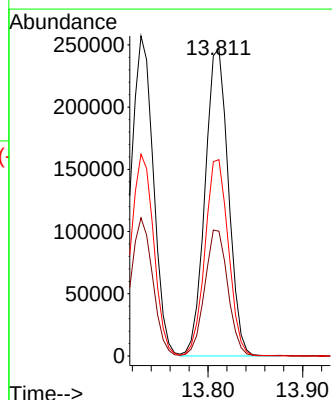
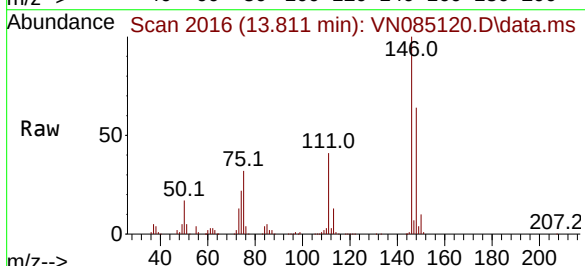
Tgt Ion:146 Resp: 423137

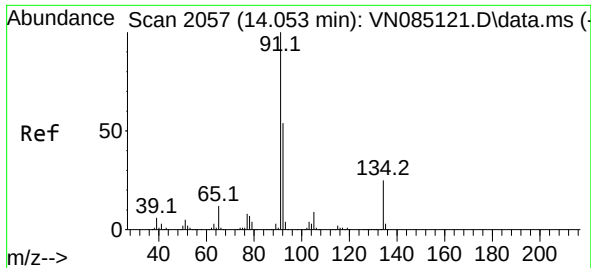
Ion Ratio Lower Upper

146 100

111 40.6 20.1 60.3

148 64.2 31.6 94.7

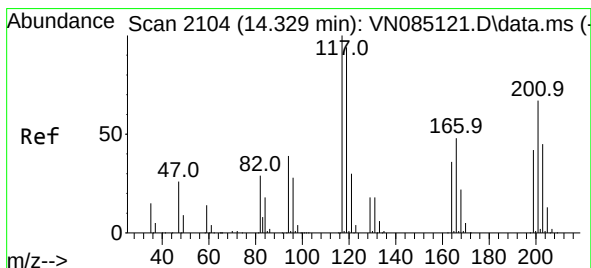
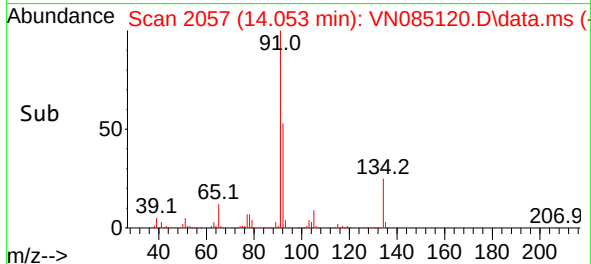
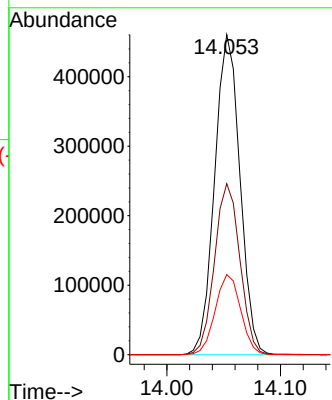
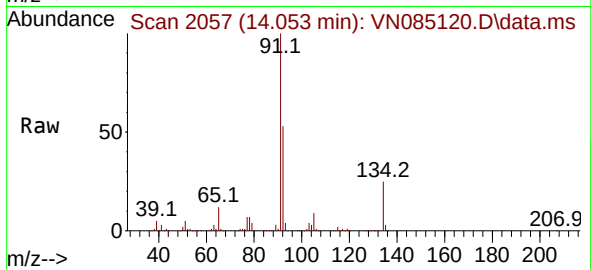




#85
n-Butylbenzene
Concen: 116.298 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

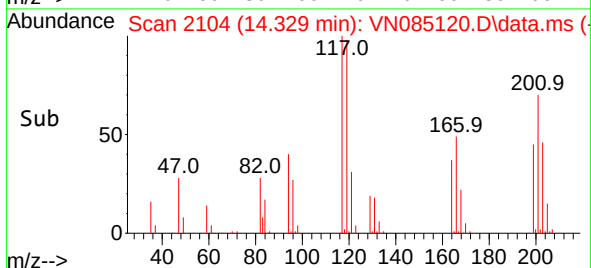
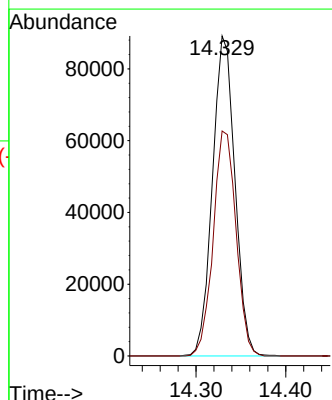
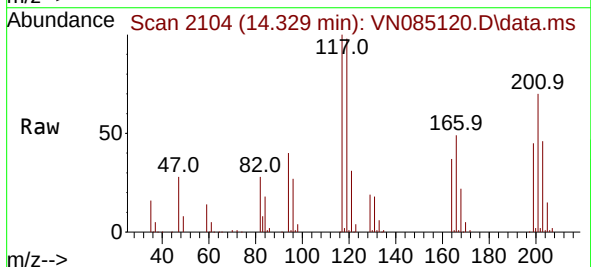
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

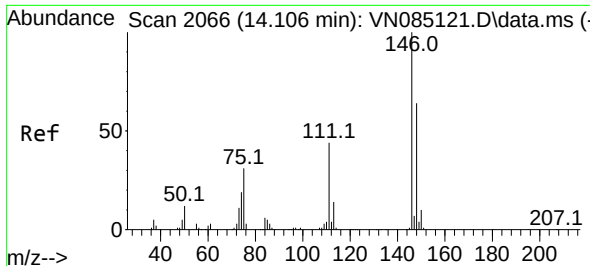
Tgt Ion: 91 Resp: 713519
Ion Ratio Lower Upper
91 100
92 53.5 0.0 104.0
134 25.2 0.0 49.2



#86
Hexachloroethane
Concen: 106.440 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 117 Resp: 154986
Ion Ratio Lower Upper
117 100
201 71.5 34.1 102.3

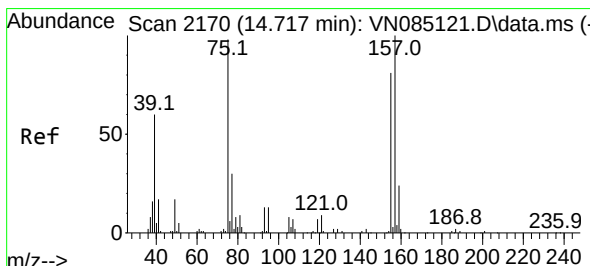
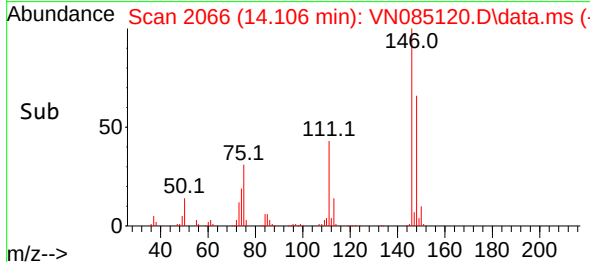
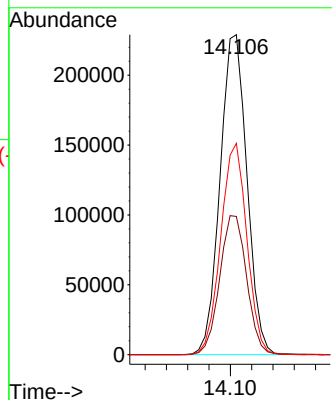
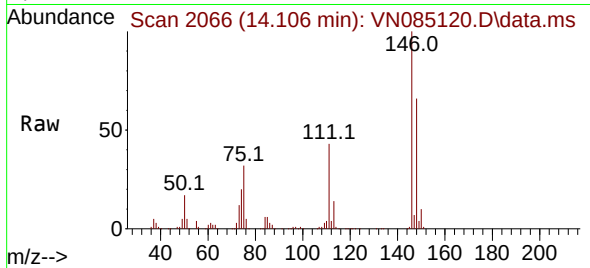




#87
1,2-Dichlorobenzene
Concen: 104.836 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

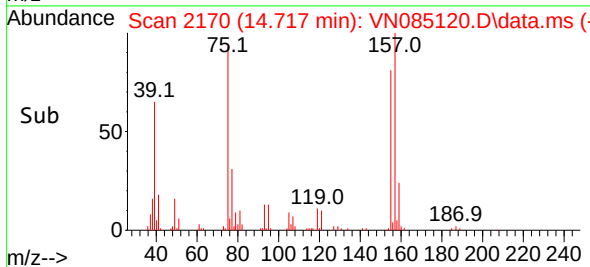
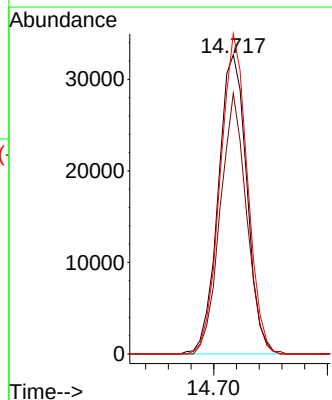
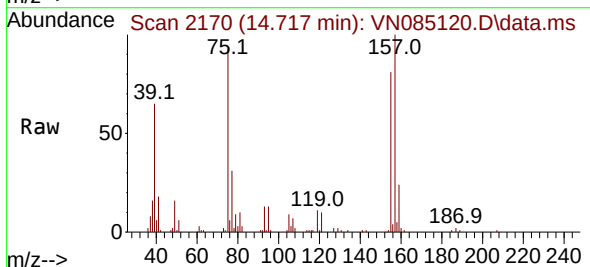
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

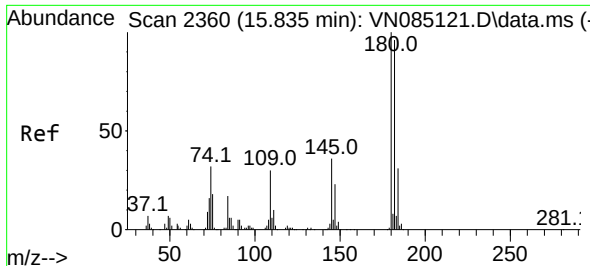
Tgt Ion:146 Resp: 401301
Ion Ratio Lower Upper
146 100
111 43.6 21.9 65.7
148 64.3 32.4 97.0



#88
1,2-Dibromo-3-Chloropropane
Concen: 106.118 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion: 75 Resp: 56942
Ion Ratio Lower Upper
75 100
155 80.4 62.1 93.1
157 102.3 79.3 118.9

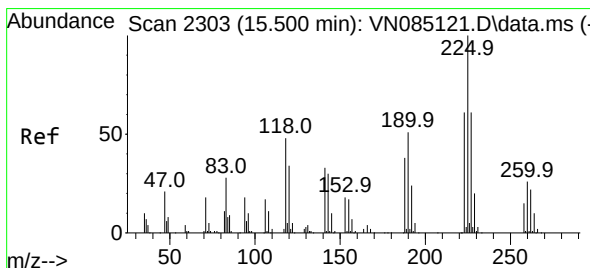
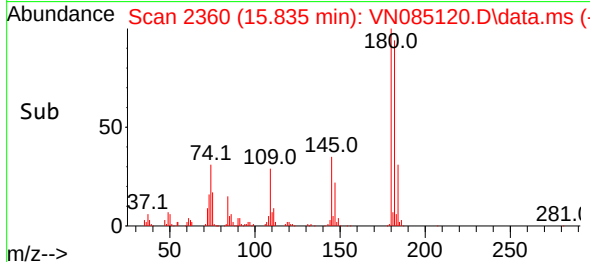
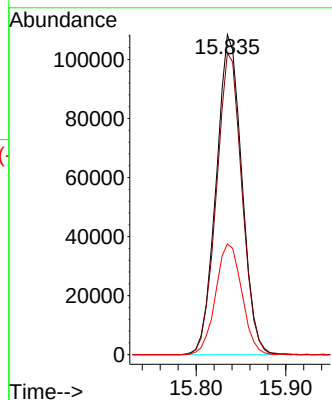
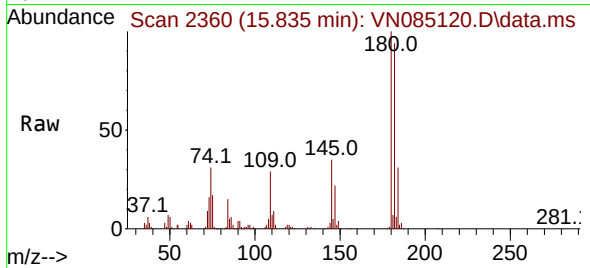




#89
 1,2,4-Trichlorobenzene
 Concen: 114.647 ug/l
 RT: 15.835 min Scan# 214927
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

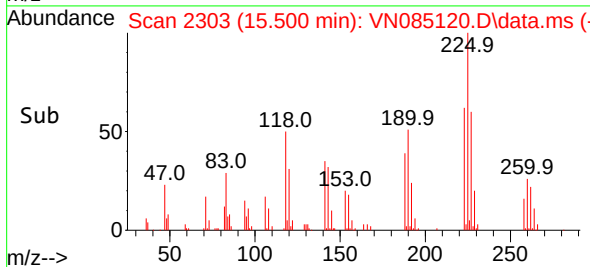
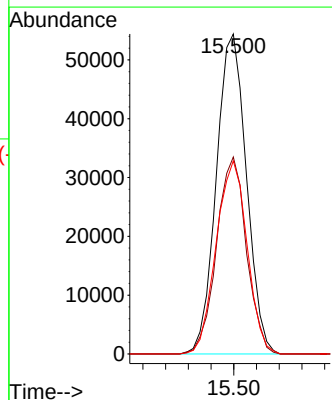
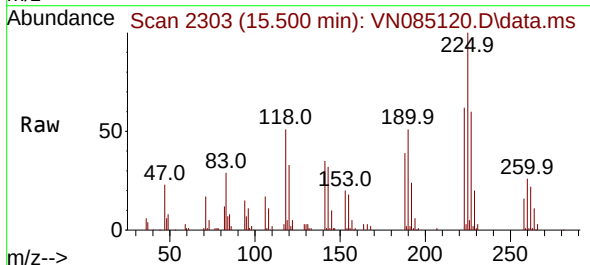
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

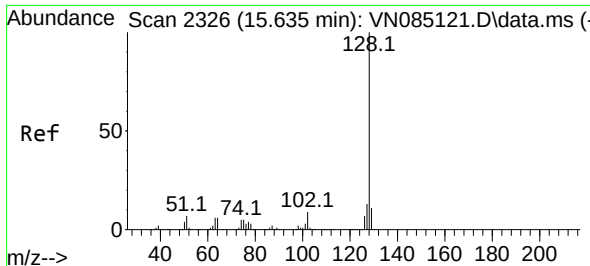
Tgt Ion:180 Resp: 214927
 Ion Ratio Lower Upper
 180 100
 182 94.0 74.0 111.0
 145 35.4 28.6 43.0



#90
 Hexachlorobutadiene
 Concen: 102.912 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. -0.000 min
 Lab File: VN085120.D
 Acq: 06 Dec 2024 11:13

Tgt Ion:225 Resp: 100252
 Ion Ratio Lower Upper
 225 100
 223 61.1 0.0 121.8
 227 61.9 0.0 126.8

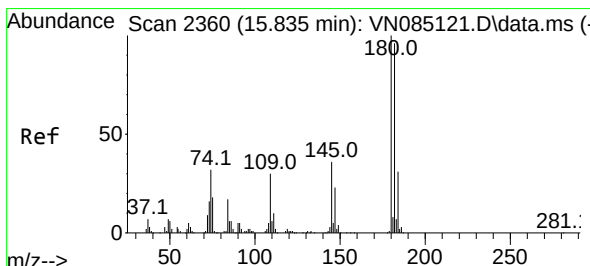
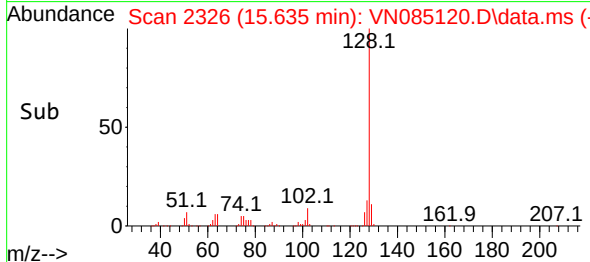
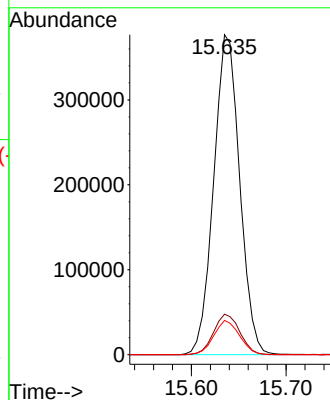
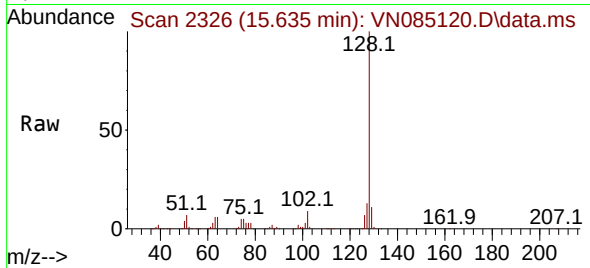




#91
Naphthalene
Concen: 123.516 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

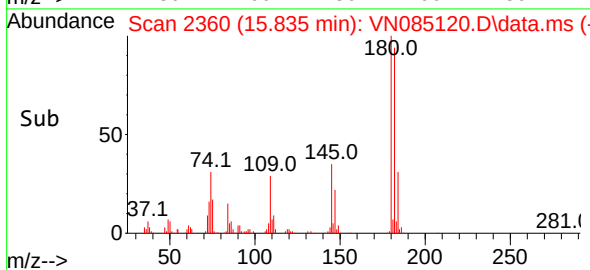
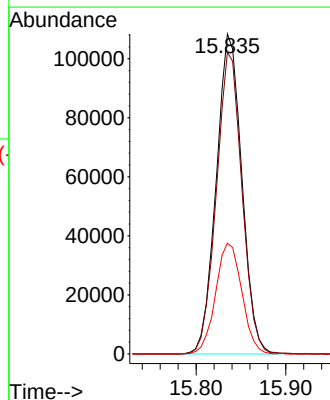
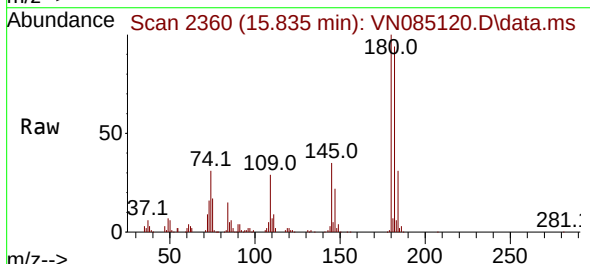
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:128 Resp: 719387
Ion Ratio Lower Upper
128 100
127 12.8 11.0 16.4
129 10.6 8.7 13.1



#92
1,2,3-Trichlorobenzene
Concen: 114.647 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085120.D
Acq: 06 Dec 2024 11:13

Tgt Ion:180 Resp: 214927
Ion Ratio Lower Upper
180 100
182 94.0 0.0 185.0
145 35.4 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085121.D
 Acq On : 06 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 06 22:31:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29869	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	165478	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	154258	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72104	30.424	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.400%
60) 4-Bromofluorobenzene	12.847	95	77038	30.183	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.600%
63) Toluene-d8	10.565	98	210929	29.150	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.167%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	382696	160.147	ug/l	100
3) Chloromethane	2.359	50	336891	159.276	ug/l	96
4) Vinyl Chloride	2.512	62	337908	156.192	ug/l	98
5) Bromomethane	2.930	94	203330	148.033	ug/l	96
6) Chloroethane	3.106	64	209222	157.410	ug/l	100
7) Trichlorofluoromethane	3.489	101	564698	159.461	ug/l	98
8) Diethyl Ether	3.959	74	189430	168.881	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	311182	157.134	ug/l	98
10) 1,1-Dichloroethene	4.336	96	297605	163.607	ug/l	94
11) Methyl Iodide	4.589	142	437650	173.477	ug/l	96
12) Methyl Acetate	5.018	43	348950	162.608	ug/l	95
13) Acrolein	4.171	56	272433	873.598	ug/l	94
14) Acrylonitrile	5.712	53	742116	832.848	ug/l	97
15) Acetone	4.424	58	196952	815.641	ug/l	97
16) Carbon Disulfide	4.712	76	864628	159.023	ug/l	100
17) Allyl chloride	5.018	41	433507	166.552	ug/l	91
18) Methylene Chloride	5.271	84	313694	151.985	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	302760	160.130	ug/l	92
20) Diisopropyl ether	6.665	45	921058	161.244	ug/l	99
21) 1,1-Dichloroethane	6.565	63	551498	156.428	ug/l #	98
22) cis-1,2-Dichloroethene	7.483	96	353328	162.585	ug/l	99
23) tert-Butyl Alcohol	5.518	59	276979	866.490	ug/l #	100
25) Chloroform	7.965	83	569561	154.206	ug/l	96
26) Cyclohexane	8.253	56	483028	166.394	ug/l #	93
29) 1,1-Dichloropropene	8.371	75	418388	156.686	ug/l	99
30) 2-Butanone	7.477	43	967143	789.269	ug/l	99
31) 2,2-Dichloropropane	7.488	77	524946	153.308	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	539832	149.363	ug/l	99
33) Carbon Tetrachloride	8.359	117	490377	150.360	ug/l	96
34) Benzene	8.600	78	1259887	150.194	ug/l	97
35) Methacrylonitrile	7.777	41	215224	156.078	ug/l	95
36) 1,2-Dichloroethane	8.665	62	422140	147.830	ug/l	99
37) Trichloroethene	9.347	130	306812	153.593	ug/l	94
38) Methylcyclohexane	9.600	83	490389	168.903	ug/l	93
39) 1,2-Dichloropropane	9.618	63	304138	149.691	ug/l	95
40) Dibromomethane	9.706	93	218470	149.905	ug/l	98
41) Bromodichloromethane	9.888	83	469670	150.750	ug/l	96
42) Vinyl Acetate	6.600	43	3493830	814.821	ug/l	100
43) Ethyl Acetate	7.553	43	382630	156.937	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085121.D
 Acq On : 06 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 06 22:31:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

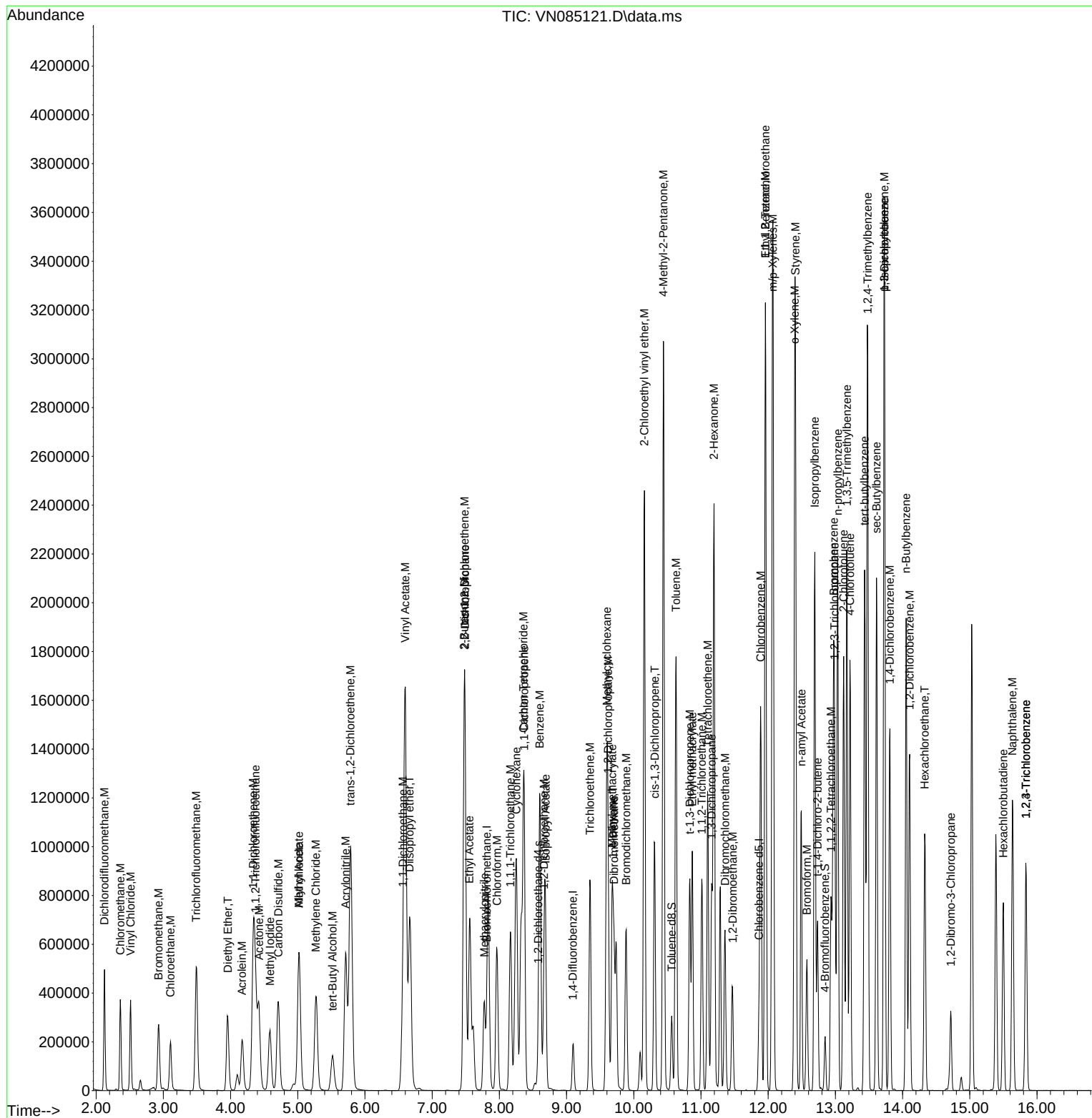
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Isopropyl Acetate	8.688	43	672392	158.696	ug/l	99
45) 1,4-Dioxane	9.694	88	111218	3147.777	ug/l	96
46) Methyl methacrylate	9.677	41	320862	165.471	ug/l	97
47) n-amyl Acetate	12.494	43	592642	166.246	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	499133	163.202	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	525997	157.986	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	289001	147.159	ug/l	94
51) Ethyl methacrylate	10.871	69	506274	169.495	ug/l	96
52) 1,3-Dichloropropane	11.159	76	501665	152.638	ug/l	99
53) Dibromochloromethane	11.359	129	362326	151.395	ug/l	96
54) 1,2-Dibromoethane	11.471	107	305232	154.261	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	1112538	801.795	ug/l	99
56) Bromoform	12.576	173	249601	155.551	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	1988082	789.691	ug/l	98
59) 2-Hexanone	11.194	43	1508817	790.966	ug/l	98
61) Tetrachloroethene	11.100	164	270825	144.976	ug/l	96
62) Toluene	10.629	91	1370241	152.311	ug/l	100
64) Chlorobenzene	11.888	112	858494	154.562	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	311301	150.134	ug/l	98
66) Ethyl Benzene	11.959	91	1573924	164.874	ug/l	98
67) m/p-Xylenes	12.071	106	1195807	325.683	ug/l	99
68) o-Xylene	12.394	106	562377	163.091	ug/l	100
69) Styrene	12.406	104	976478	166.883	ug/l	99
70) Isopropylbenzene	12.694	105	1467994	165.057	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	401707	148.393	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	559263	209.140	ug/l	75
73) Bromobenzene	12.976	156	347939	156.185	ug/l	99
74) n-propylbenzene	13.035	91	1746230	163.317	ug/l	99
75) 2-Chlorotoluene	13.123	91	1057392	159.945	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	1241282	162.904	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	163318	168.075	ug/l	94
78) 4-Chlorotoluene	13.218	91	1062762	158.383	ug/l	99
79) tert-butylbenzene	13.435	119	1033507	165.137	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	1230594	163.500	ug/l	100
81) sec-Butylbenzene	13.612	105	1466428	164.927	ug/l	98
82) p-Isopropyltoluene	13.729	119	1249133	169.455	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	629183	153.943	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	630821	158.368	ug/l	99
85) n-Butylbenzene	14.053	91	1076317	174.069	ug/l	98
86) Hexachloroethane	14.329	117	234799	160.002	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	591716	153.379	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	89112	164.781	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	332292	175.876	ug/l	98
90) Hexachlorobutadiene	15.500	225	150844	153.643	ug/l	98
91) Naphthalene	15.635	128	1116289	190.174	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	332292	175.876	ug/l	98

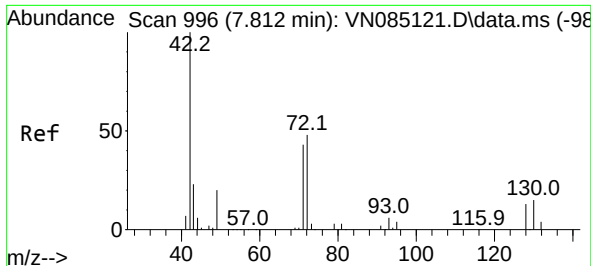
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Data File : VN085121.D
 Acq On : 06 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 06 22:31:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:19:40 2024
 Response via : Initial Calibration

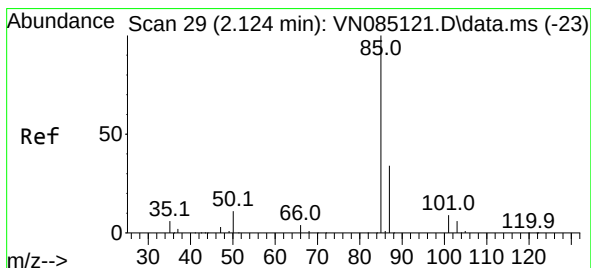
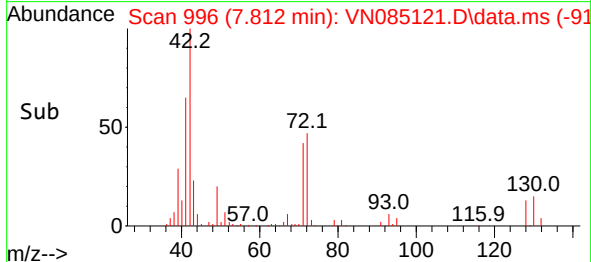
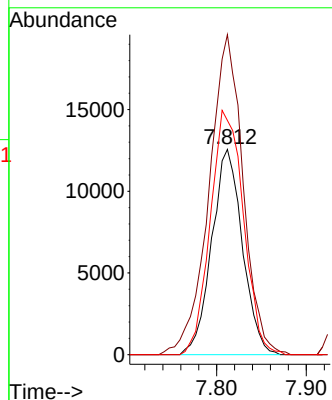
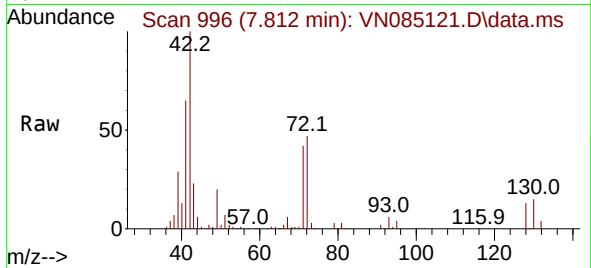




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

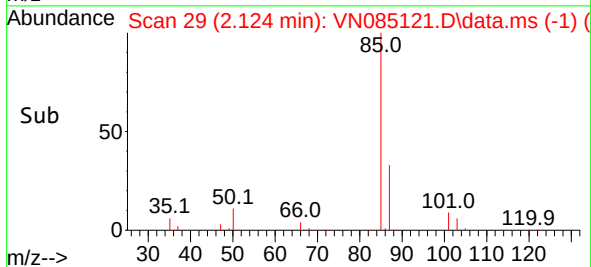
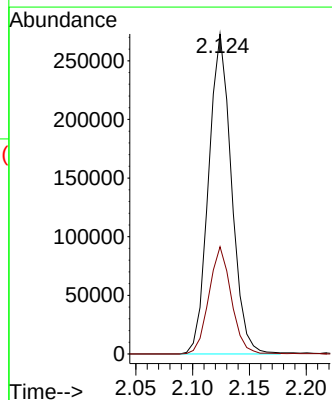
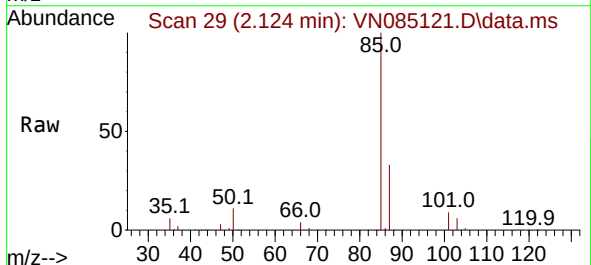
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

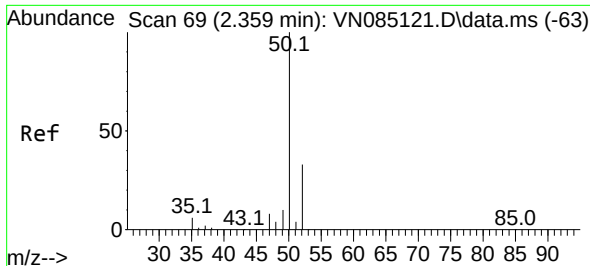
Tgt Ion:128 Resp: 29869
Ion Ratio Lower Upper
128 100
49 173.0 0.0 394.5
130 128.6 0.0 316.5



#2
Dichlorodifluoromethane
Concen: 160.147 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 85 Resp: 382696
Ion Ratio Lower Upper
85 100
87 33.5 16.8 50.3

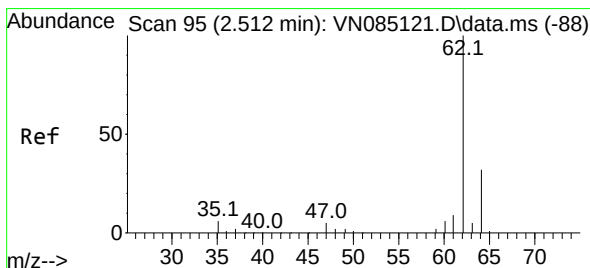
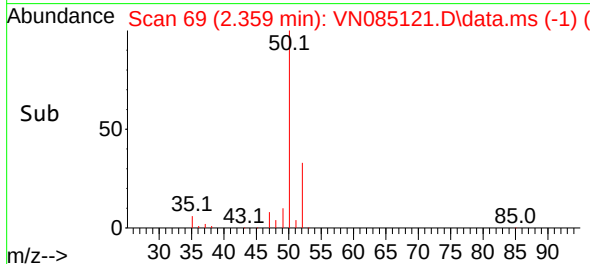
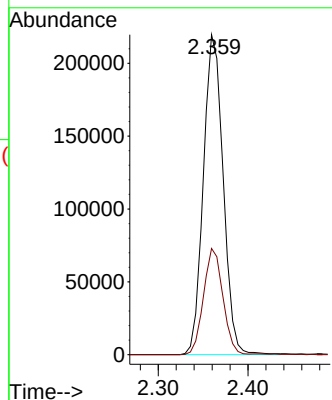
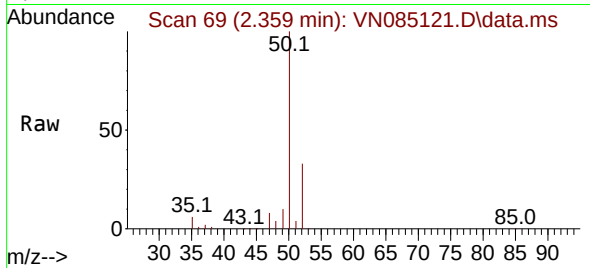




#3
Chloromethane
Concen: 159.276 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

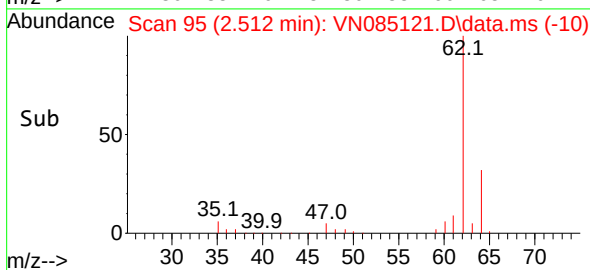
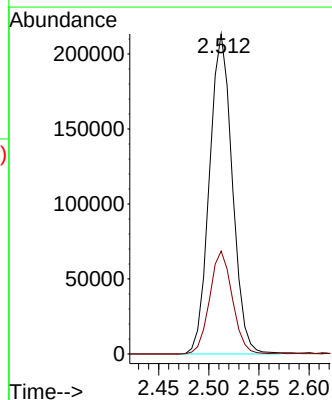
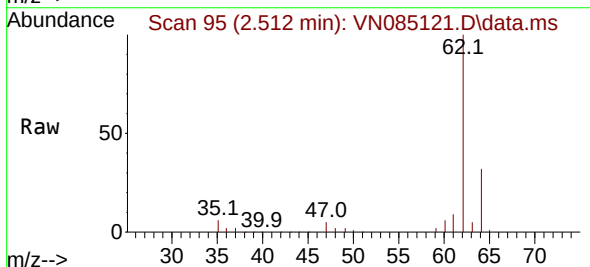
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

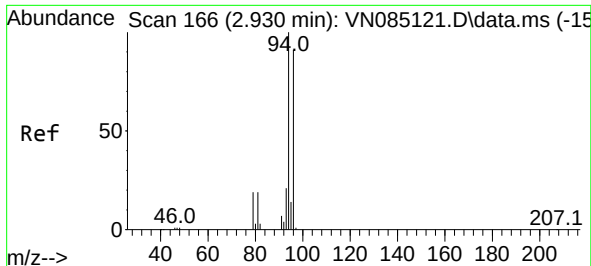
Tgt Ion: 50 Resp: 336891
Ion Ratio Lower Upper
50 100
52 33.2 25.0 37.4



#4
Vinyl Chloride
Concen: 156.192 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 62 Resp: 337908
Ion Ratio Lower Upper
62 100
64 32.2 24.9 37.3

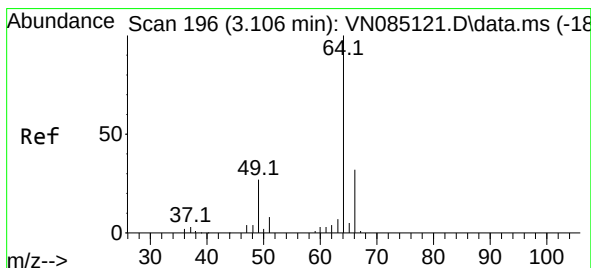
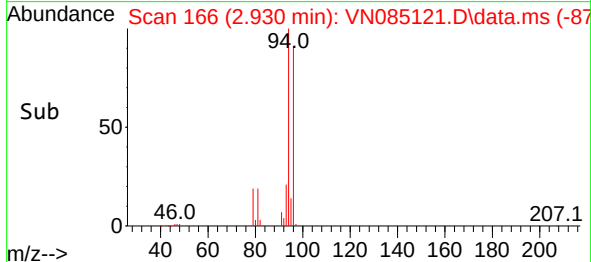
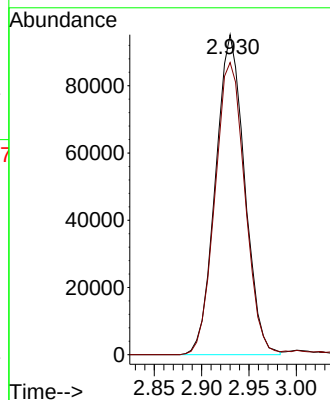
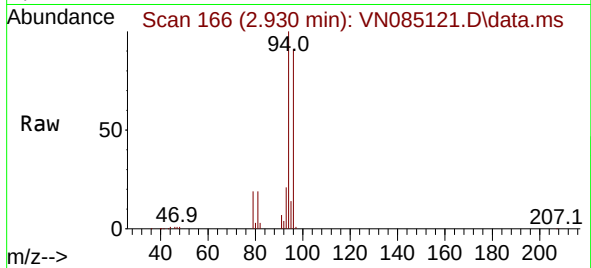




#5
Bromomethane
Concen: 148.033 ug/l
RT: 2.930 min Scan# 166
Delta R.T. -0.035 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

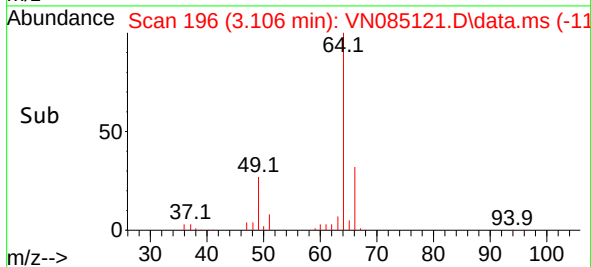
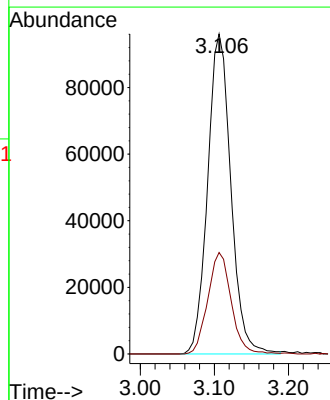
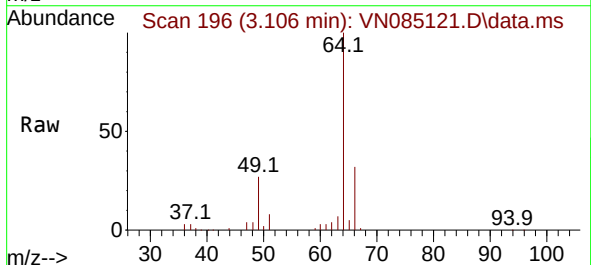
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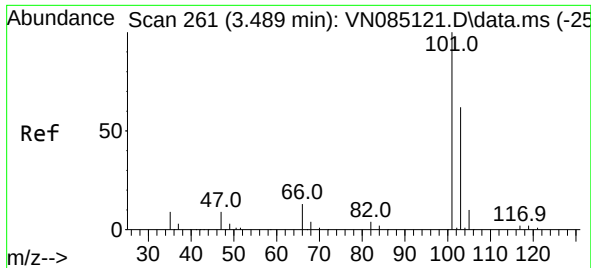
Tgt Ion: 94 Resp: 203330
Ion Ratio Lower Upper
94 100
96 91.3 76.2 114.4



#6
Chloroethane
Concen: 157.410 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.018 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 64 Resp: 209222
Ion Ratio Lower Upper
64 100
66 31.7 25.5 38.3

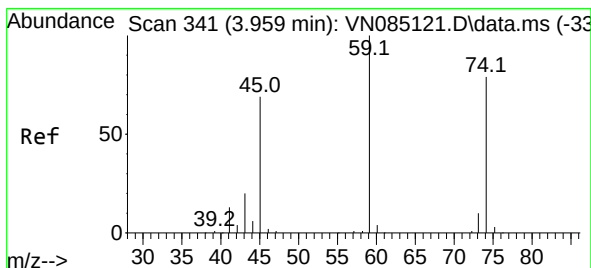
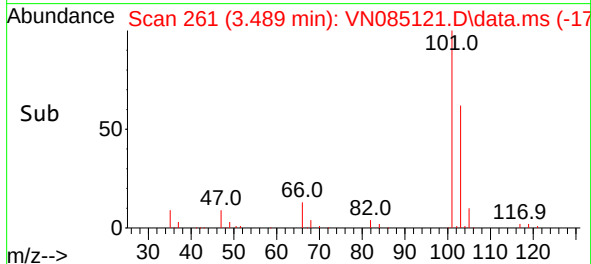
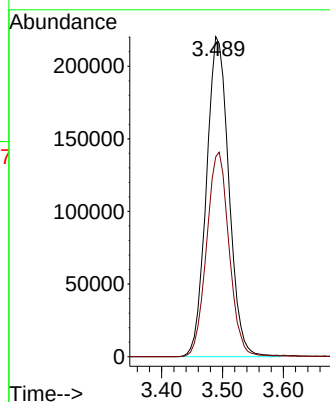
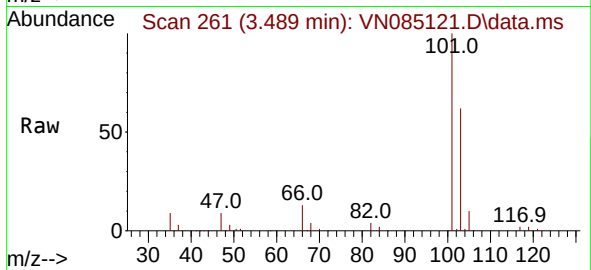




#7
 Trichlorofluoromethane
 Concen: 159.461 ug/l
 RT: 3.489 min Scan# 261
 Delta R.T. -0.012 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

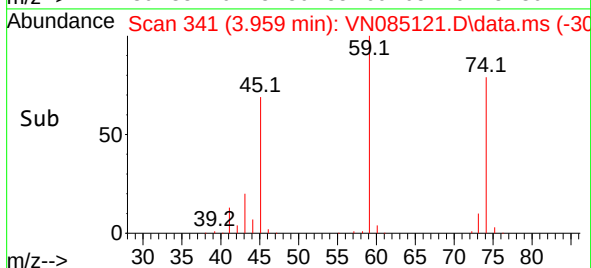
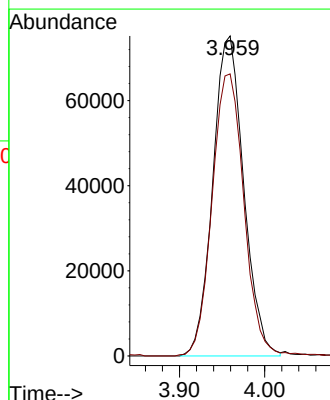
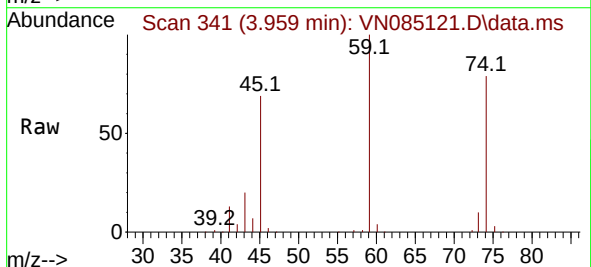
Instrument :
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 ClientSampleId :
 VSTDIC150

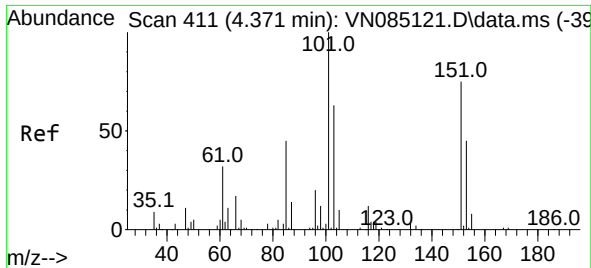
Tgt Ion:101 Resp: 564698
 Ion Ratio Lower Upper
 101 100
 103 62.3 51.3 76.9



#8
 Diethyl Ether
 Concen: 168.881 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion: 74 Resp: 189430
 Ion Ratio Lower Upper
 74 100
 45 90.9 18.6 167.8

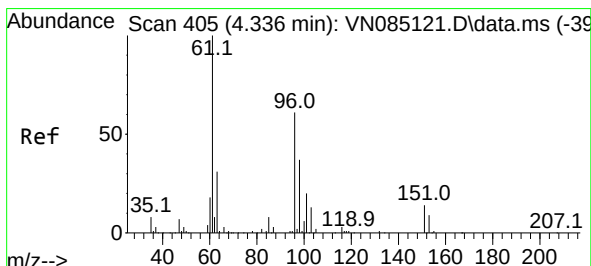
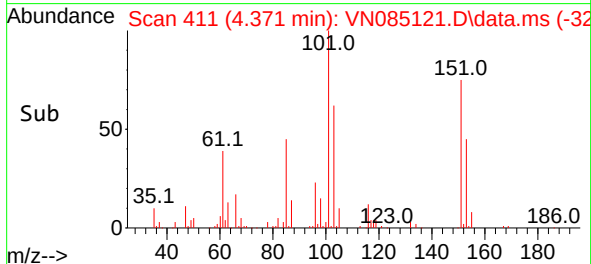
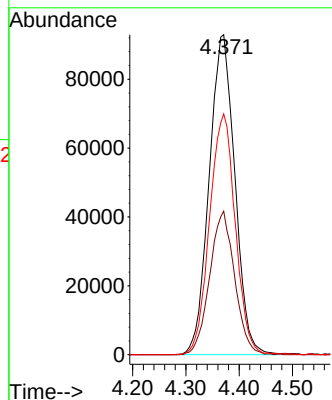
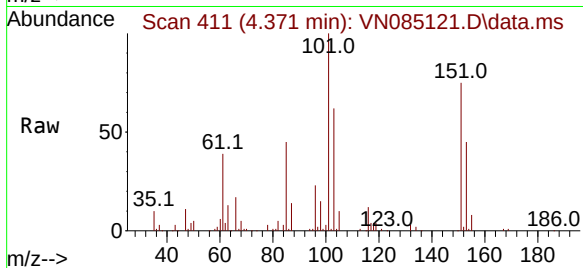




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 157.134 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

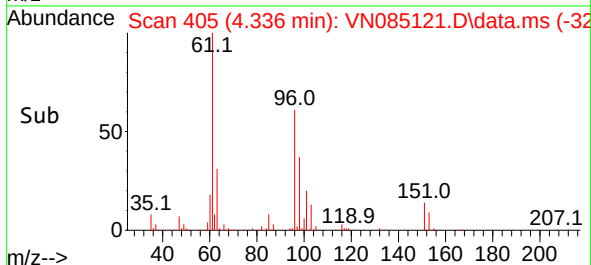
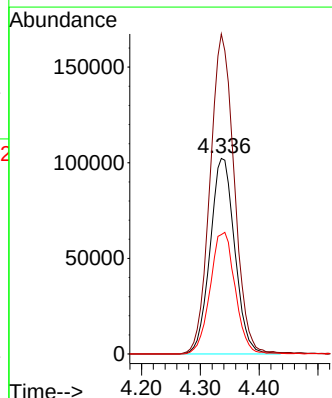
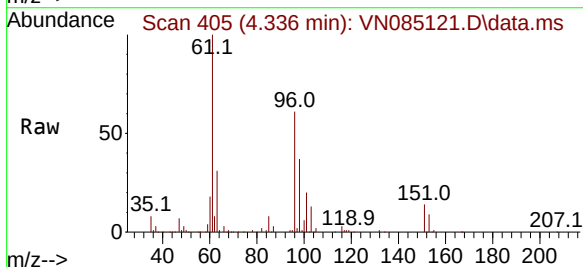
Instrument :
 MSVOA_N
 ClientSampleId :
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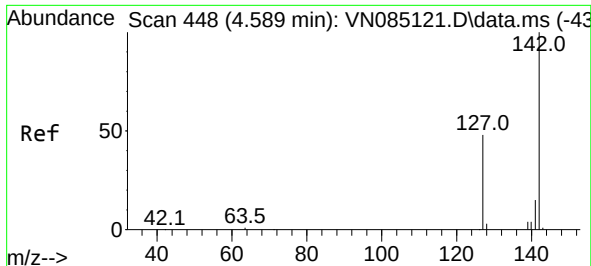
Tgt Ion:101 Resp: 311182
 Ion Ratio Lower Upper
 101 100
 85 43.5 0.0 88.6
 151 75.1 0.0 155.8



#10
 1,1-Dichloroethene
 Concen: 163.607 ug/l
 RT: 4.336 min Scan# 405
 Delta R.T. -0.006 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion: 96 Resp: 297605
 Ion Ratio Lower Upper
 96 100
 61 163.6 123.0 184.4
 98 61.1 49.1 73.7

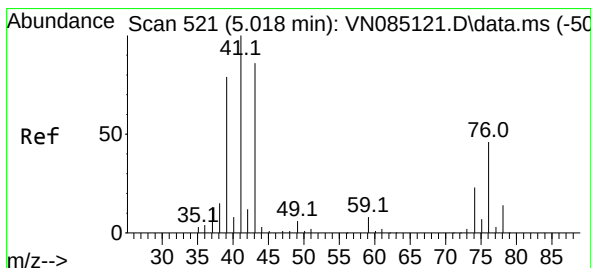
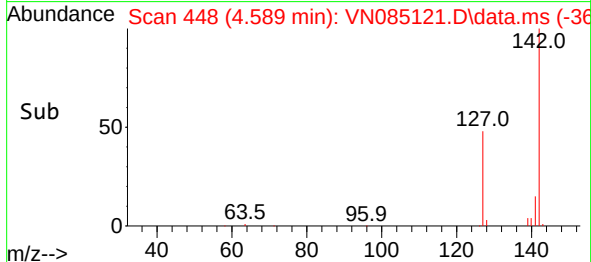
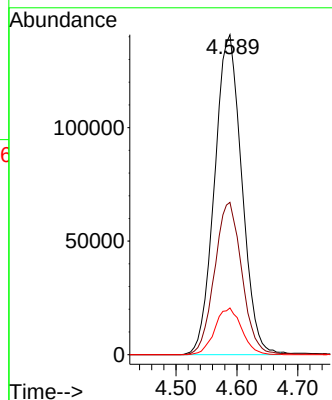
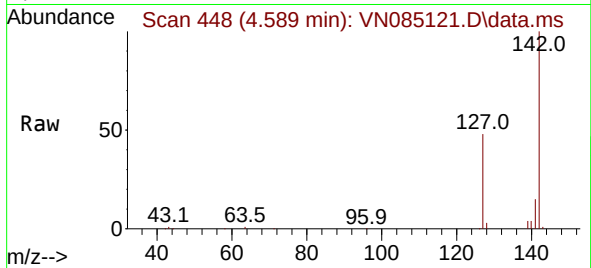




#11
Methyl Iodide
Concen: 173.477 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

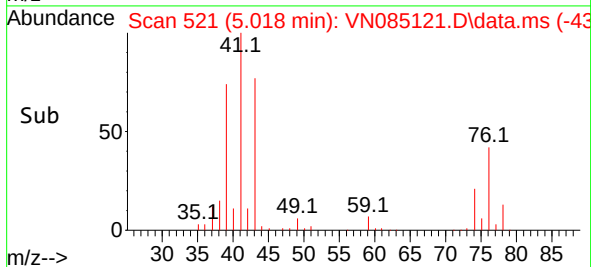
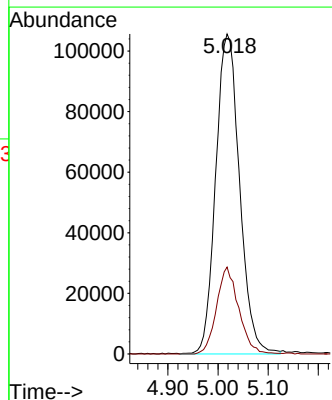
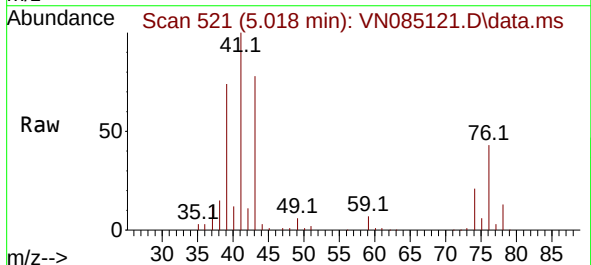
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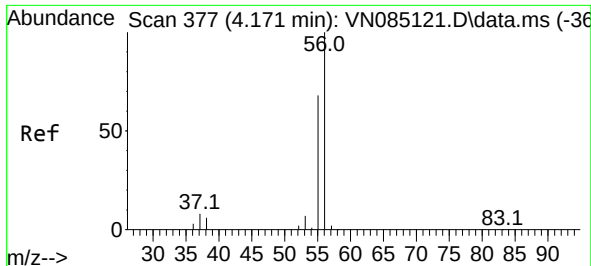
Tgt Ion:142 Resp: 437650
Ion Ratio Lower Upper
142 100
127 47.6 22.5 67.5
141 14.6 8.3 24.9



#12
Methyl Acetate
Concen: 162.608 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 43 Resp: 348950
Ion Ratio Lower Upper
43 100
74 27.2 19.8 29.6

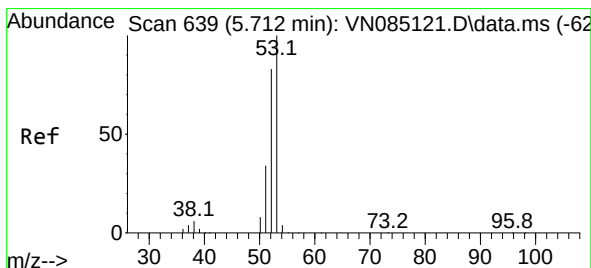
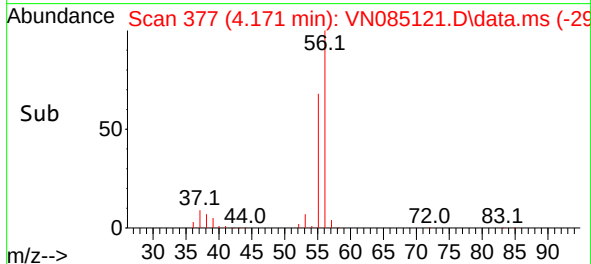
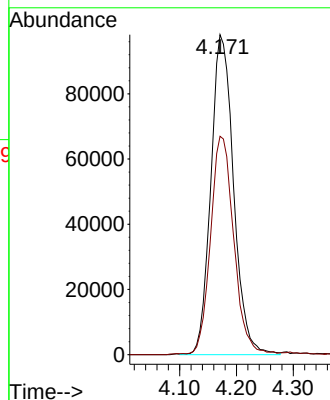
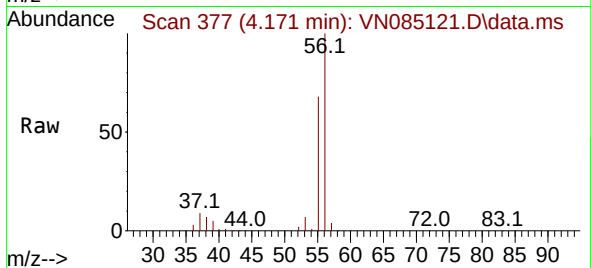




#13
Acrolein
Concen: 873.598 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

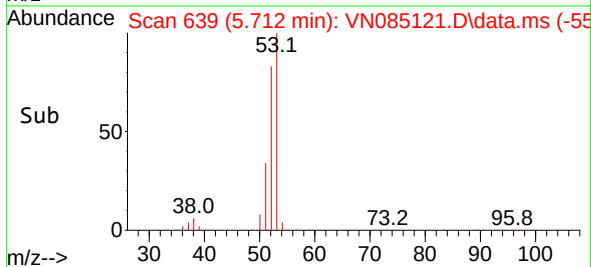
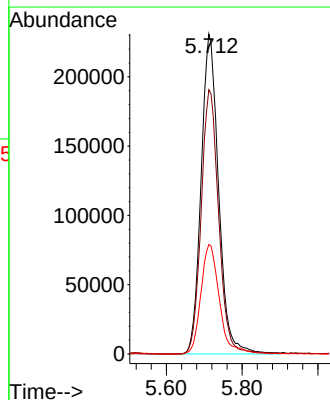
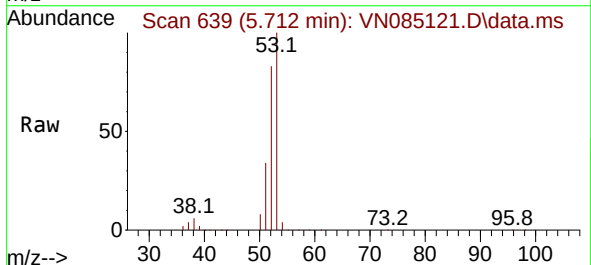
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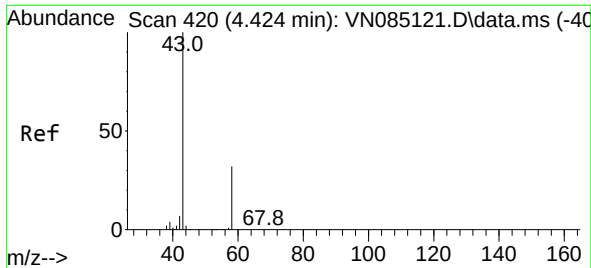
Tgt Ion: 56 Resp: 272433
Ion Ratio Lower Upper
56 100
55 69.4 59.4 89.0



#14
Acrylonitrile
Concen: 832.848 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 53 Resp: 742116
Ion Ratio Lower Upper
53 100
52 82.5 42.9 128.5
51 36.1 17.2 51.5





#15

Acetone

Concen: 815.641 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

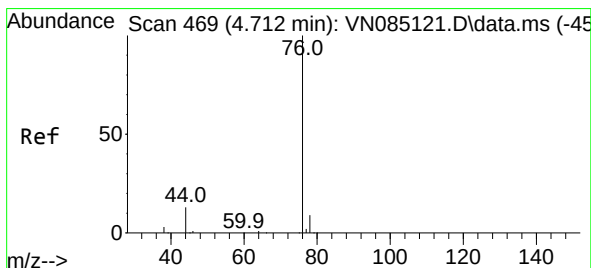
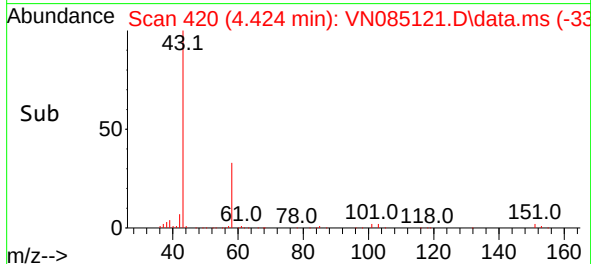
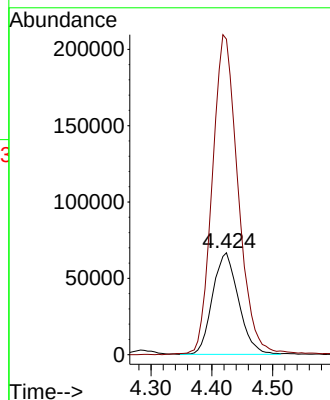
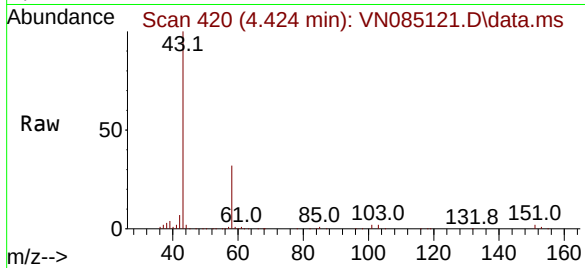
VSTDIC150

Tgt Ion: 58 Resp: 196952

Ion Ratio Lower Upper

58 100

43 309.3 242.3 363.5



#16

Carbon Disulfide

Concen: 159.023 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085121.D

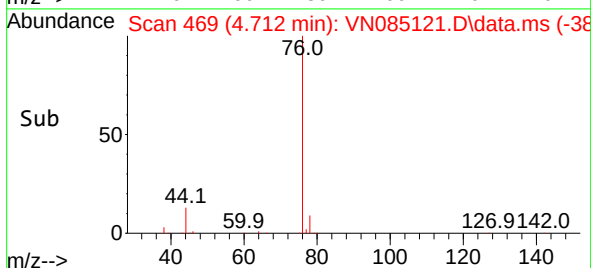
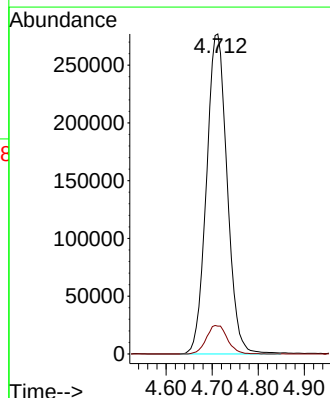
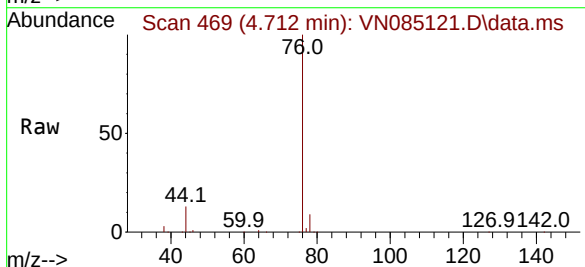
Acq: 06 Dec 2024 11:37

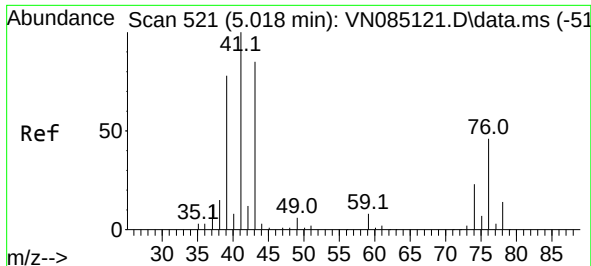
Tgt Ion: 76 Resp: 864628

Ion Ratio Lower Upper

76 100

78 8.7 7.1 10.7

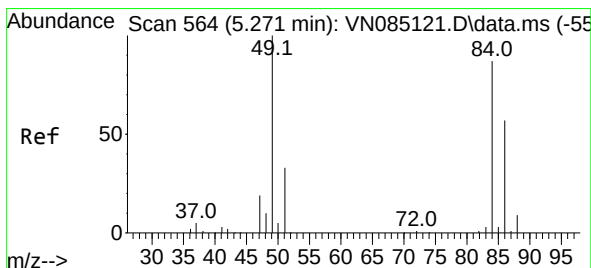
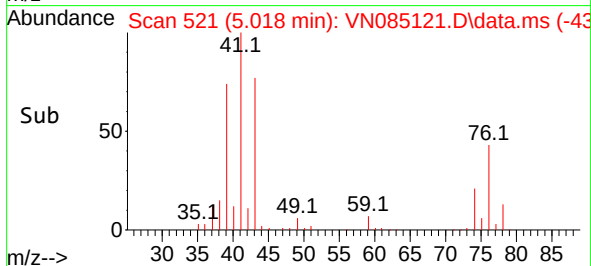
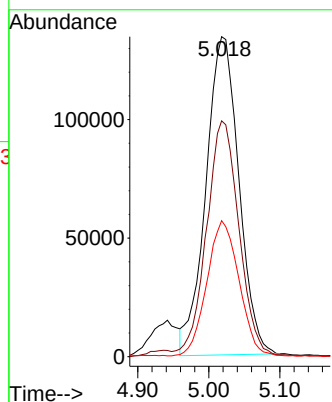
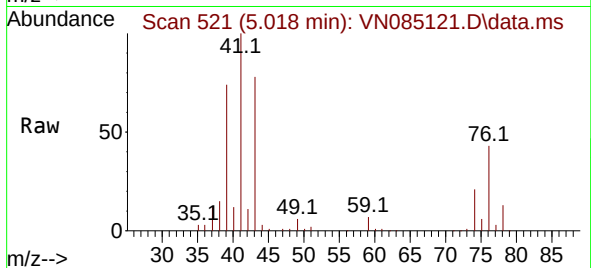




#17
 Allyl chloride
 Concen: 166.552 ug/l
 RT: 5.018 min Scan# 51
 Delta R.T. -0.006 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

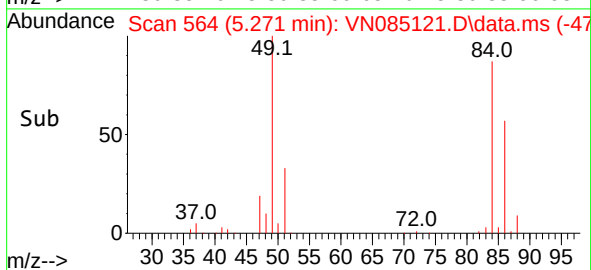
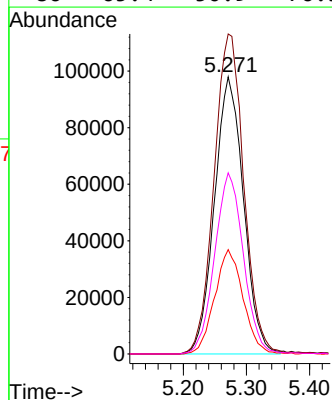
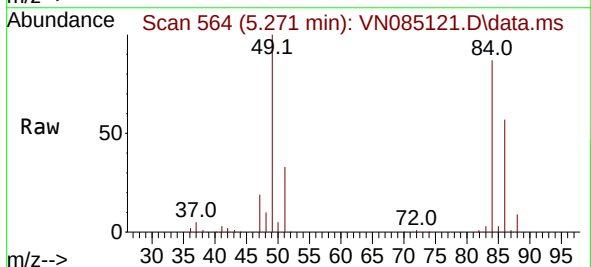
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

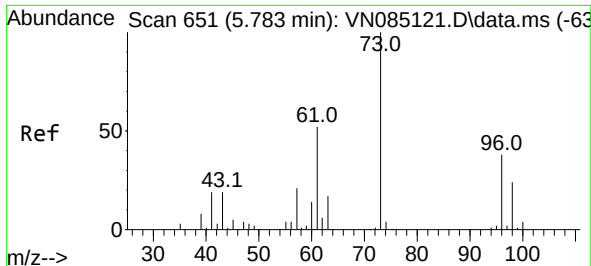
Tgt Ion:	41	Resp:	433507
Ion	Ratio	Lower	Upper
41	100		
39	73.7	32.0	96.2
76	42.5	20.2	60.5



#18
 Methylene Chloride
 Concen: 151.985 ug/l
 RT: 5.271 min Scan# 564
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion:	84	Resp:	313694
Ion	Ratio	Lower	Upper
84	100		
49	115.5	95.1	142.7
51	37.6	27.4	41.0
86	65.4	50.9	76.3





#19

trans-1,2-Dichloroethene

Concen: 160.130 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

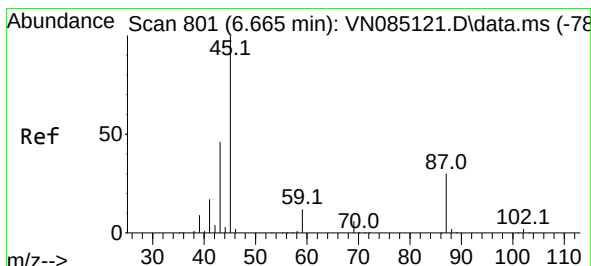
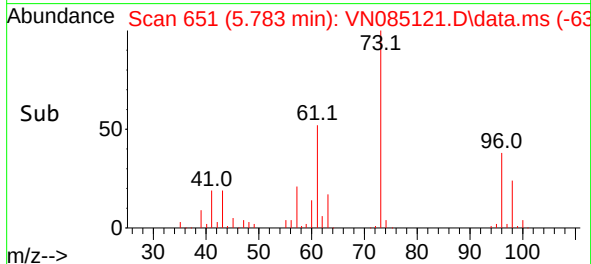
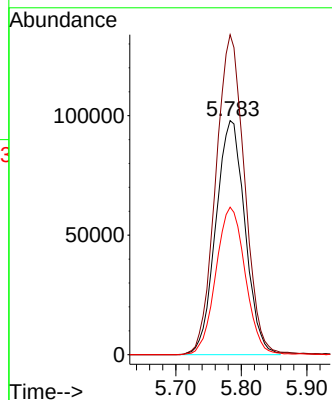
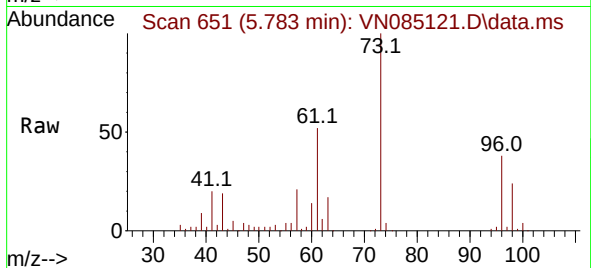
Tgt Ion: 96 Resp: 302760

Ion Ratio Lower Upper

96 100

61 136.5 100.4 150.6

98 63.0 52.6 79.0



#20

Diisopropyl ether

Concen: 161.244 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Tgt Ion: 45 Resp: 921058

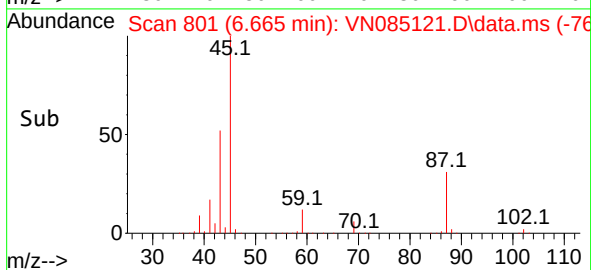
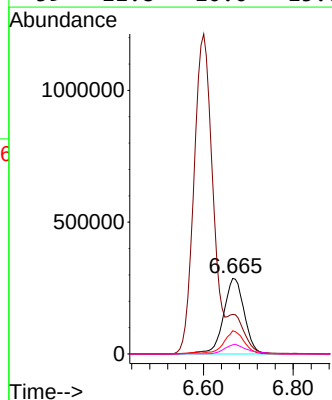
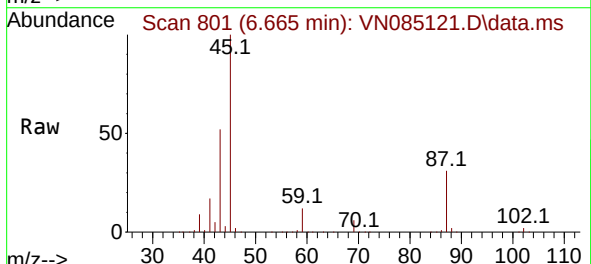
Ion Ratio Lower Upper

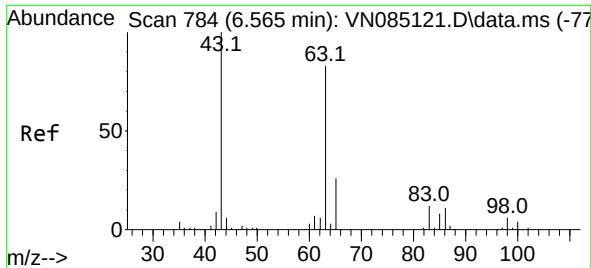
45 100

43 51.6 41.9 62.9

87 30.5 24.1 36.1

59 11.8 10.0 15.0

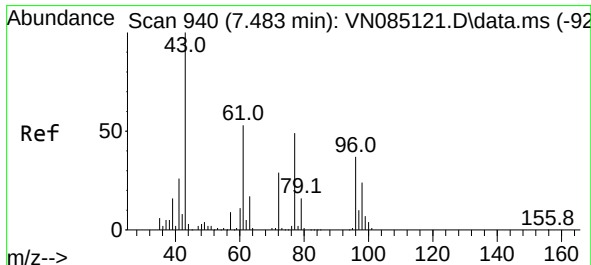
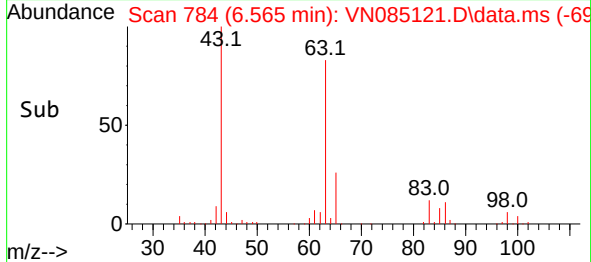
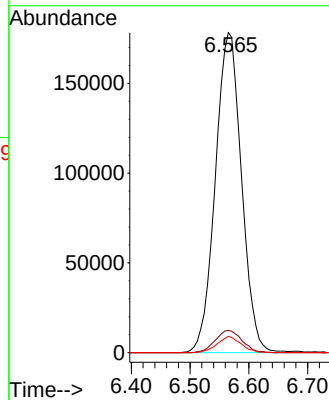
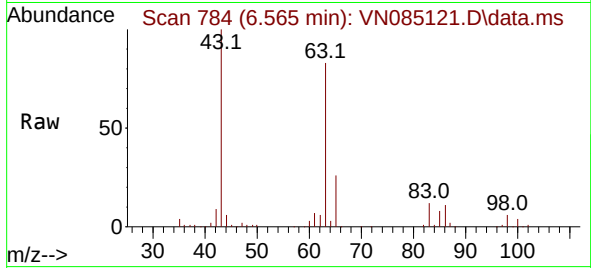




#21
1,1-Dichloroethane
Concen: 156.428 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

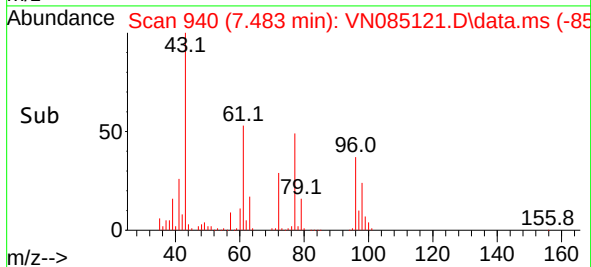
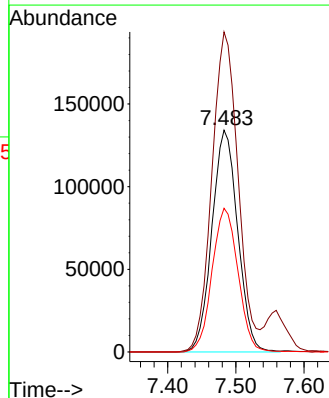
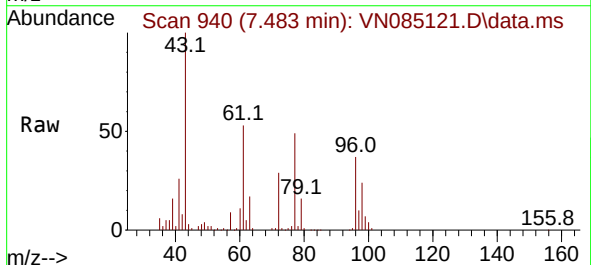
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

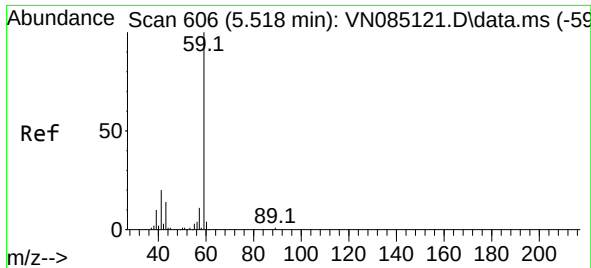
Tgt Ion: 63 Resp: 551498
Ion Ratio Lower Upper
63 100
98 6.9 3.5 10.4
100 5.1 1.6 4.8#



#22
cis-1,2-Dichloroethene
Concen: 162.585 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 96 Resp: 353328
Ion Ratio Lower Upper
96 100
61 147.0 115.9 173.9
98 65.0 51.8 77.8

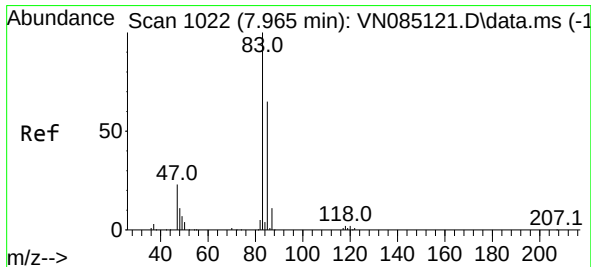
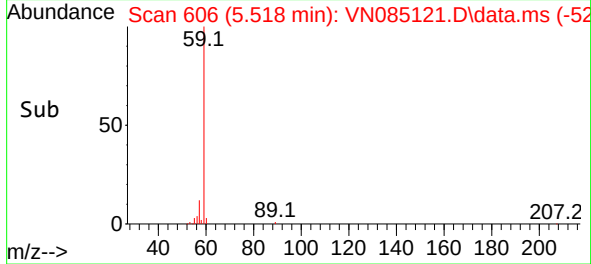
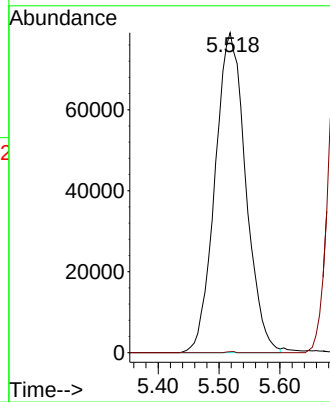
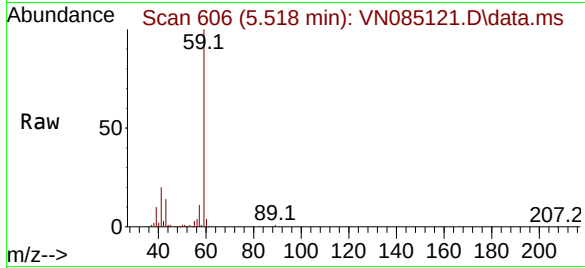




#23
tert-Butyl Alcohol
Concen: 866.490 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

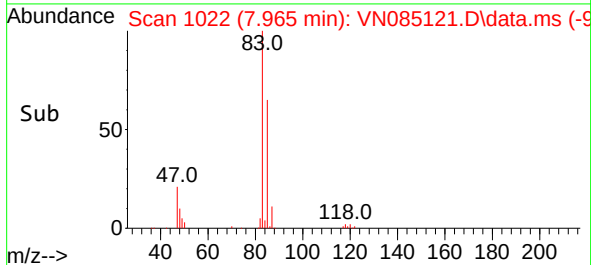
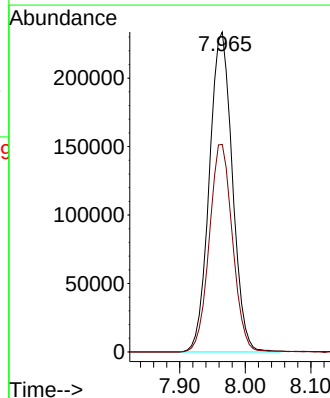
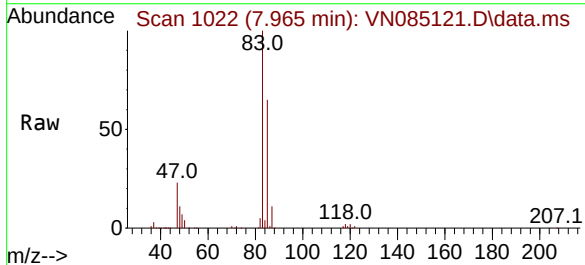
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

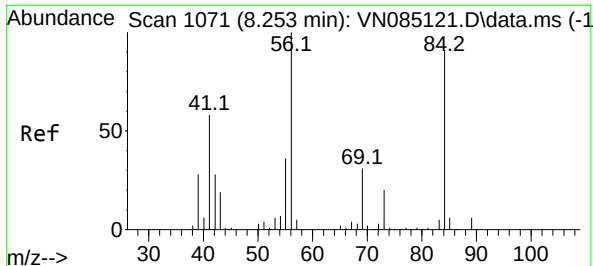
Tgt Ion: 59 Resp: 276979
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#



#25
Chloroform
Concen: 154.206 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 83 Resp: 569561
Ion Ratio Lower Upper
83 100
85 64.9 49.4 74.0

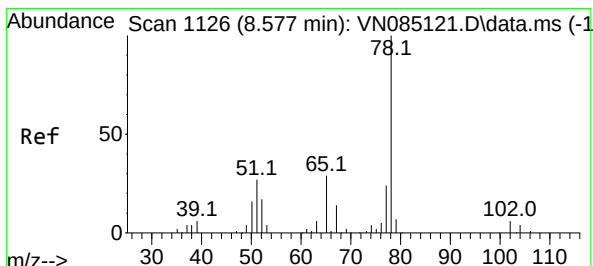
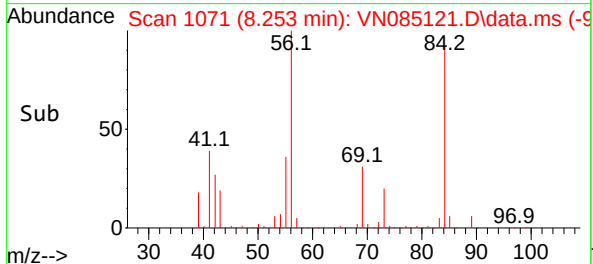
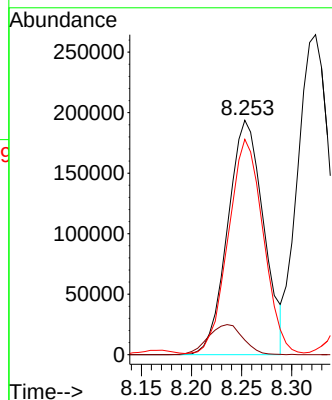
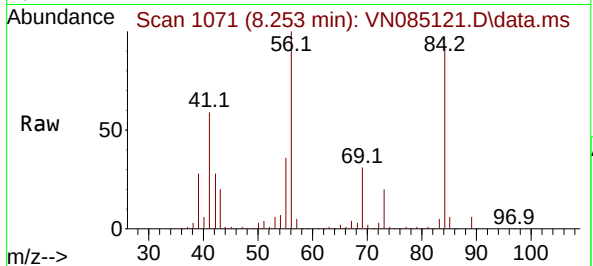




#26
Cyclohexane
Concen: 166.394 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

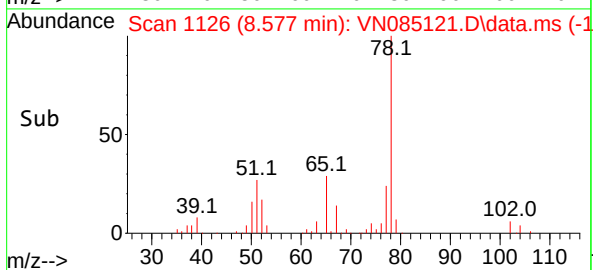
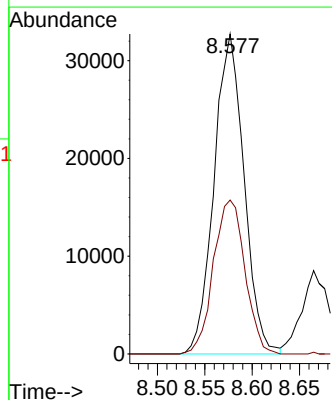
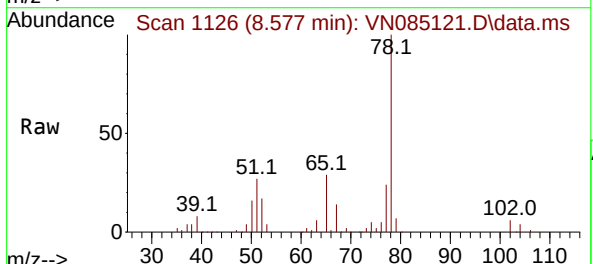
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

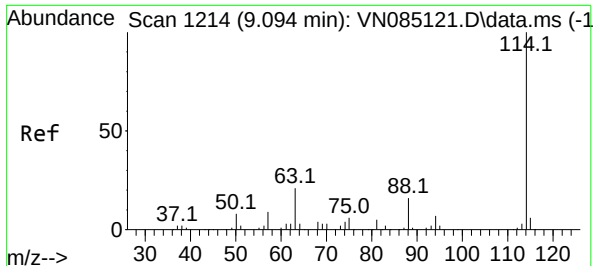
Tgt Ion: 56 Resp: 483028
Ion Ratio Lower Upper
56 100
89 12.6 19.5 29.3#
84 90.0 70.6 105.8



#27
1,2-Dichloroethane-d4
Concen: 30.424 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 65 Resp: 72104
Ion Ratio Lower Upper
65 100
67 50.5 39.9 59.9

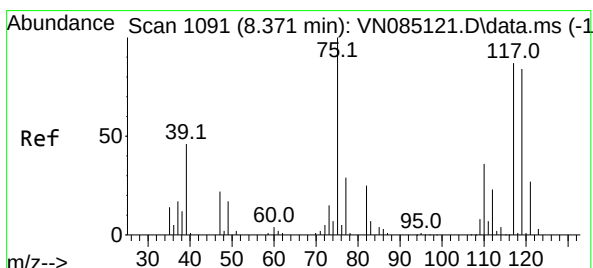
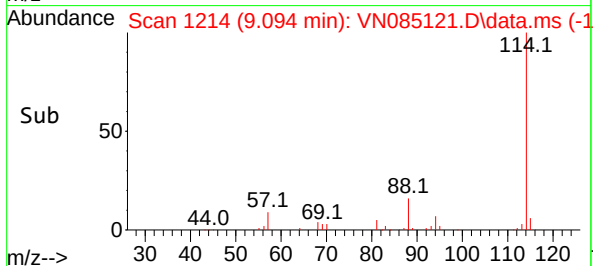
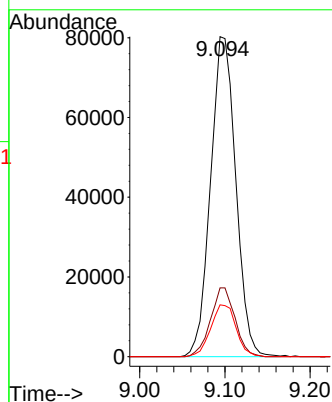
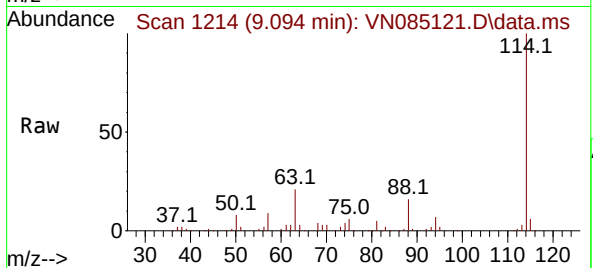




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

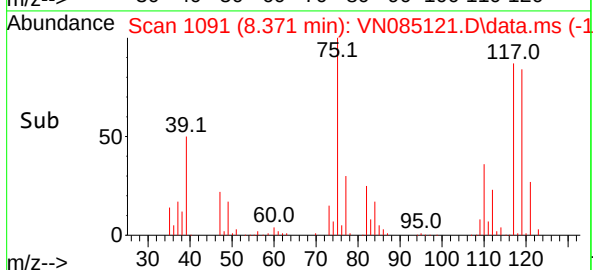
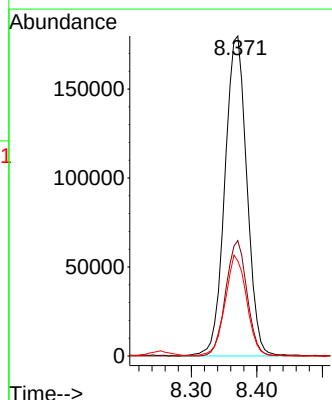
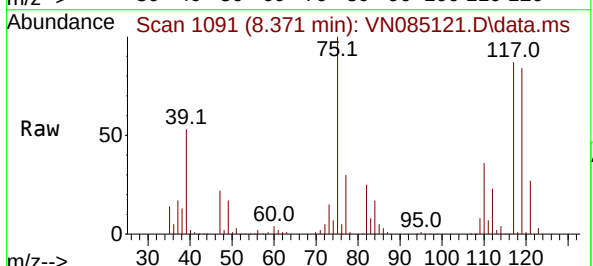
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

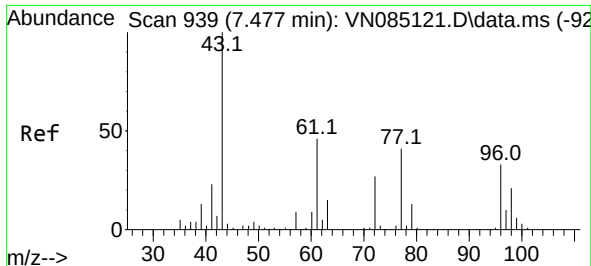
Tgt Ion:114 Resp: 165478
Ion Ratio Lower Upper
114 100
63 20.8 16.2 24.2
88 16.3 12.5 18.7



#29
1,1-Dichloropropene
Concen: 156.686 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 75 Resp: 418388
Ion Ratio Lower Upper
75 100
110 35.0 0.0 71.6
77 30.9 0.0 62.2

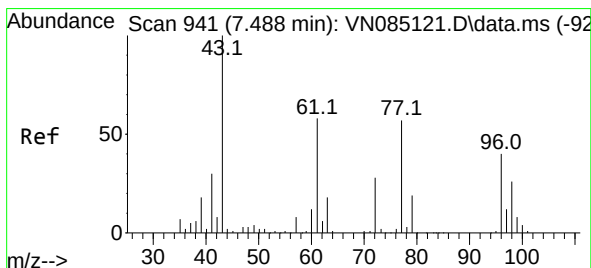
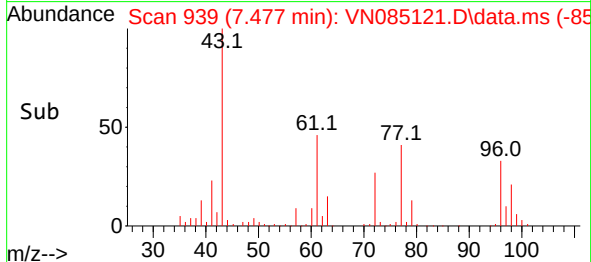
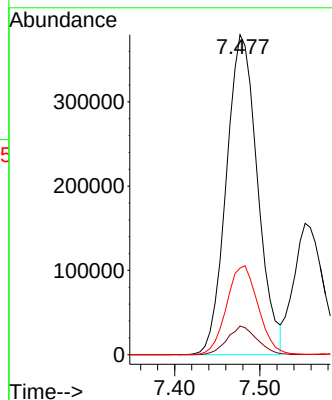
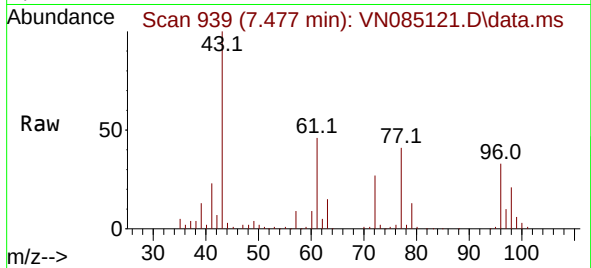




#30
2-Butanone
Concen: 789.269 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

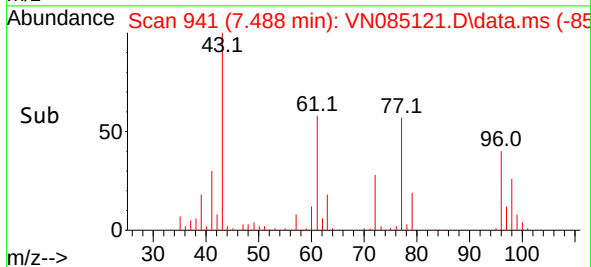
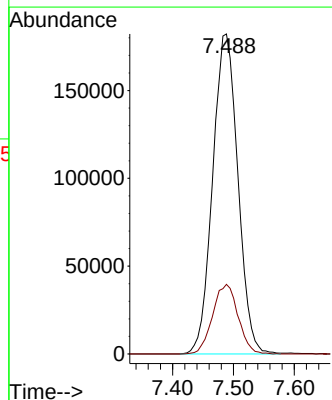
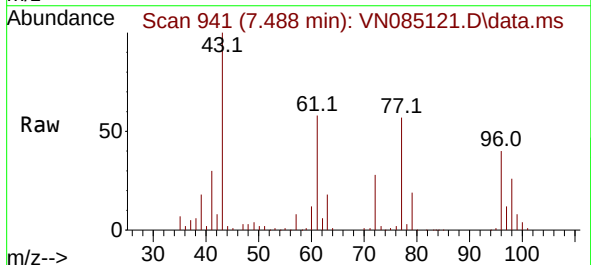
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

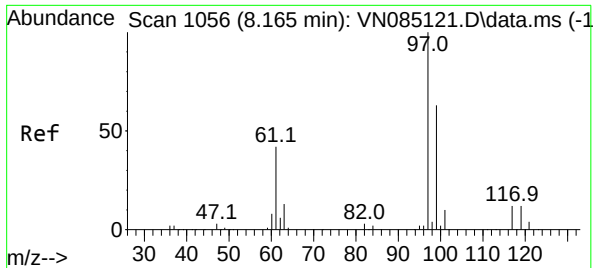
Tgt Ion: 43 Resp: 967143
Ion Ratio Lower Upper
43 100
57 8.5 6.9 10.3
72 28.2 21.8 32.8



#31
2,2-Dichloropropane
Concen: 153.308 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 77 Resp: 524946
Ion Ratio Lower Upper
77 100
97 21.8 0.0 0.0#

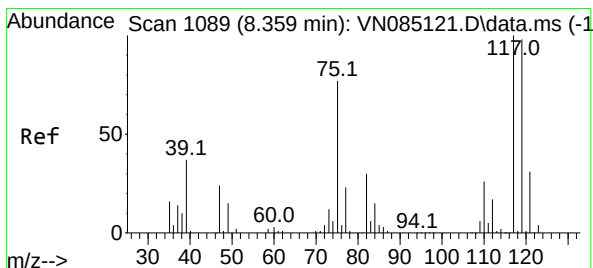
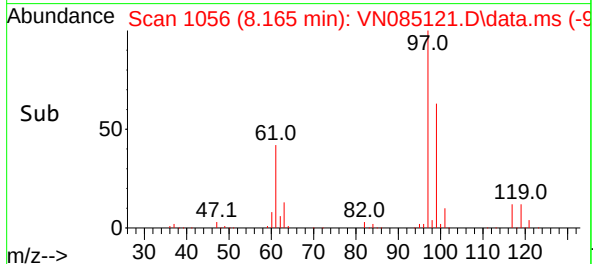
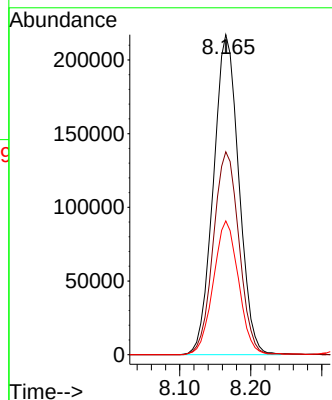
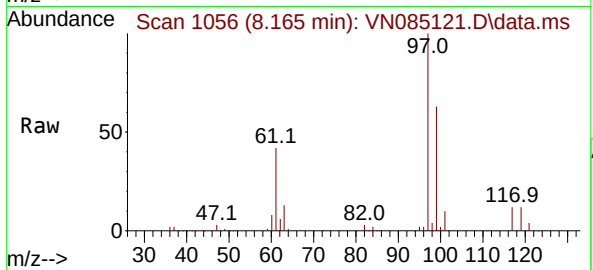




#32
1,1,1-Trichloroethane
Concen: 149.363 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

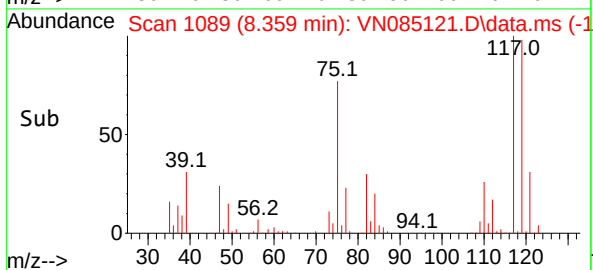
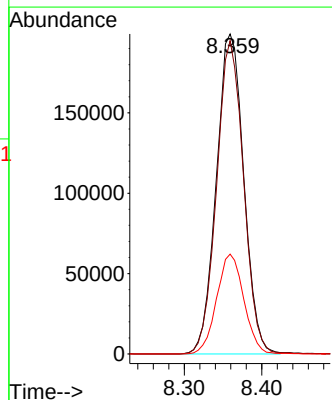
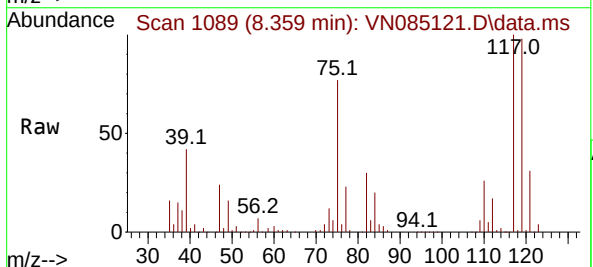
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

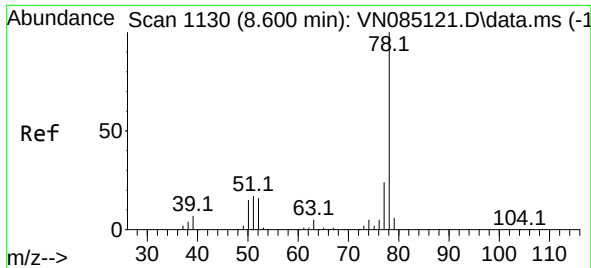
Tgt Ion: 97 Resp: 539832
Ion Ratio Lower Upper
97 100
99 64.1 50.8 76.2
61 41.4 32.7 49.1



#33
Carbon Tetrachloride
Concen: 150.360 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 117 Resp: 490377
Ion Ratio Lower Upper
117 100
119 97.9 81.6 122.4
121 31.2 26.5 39.7





#34

Benzene

Concen: 150.194 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

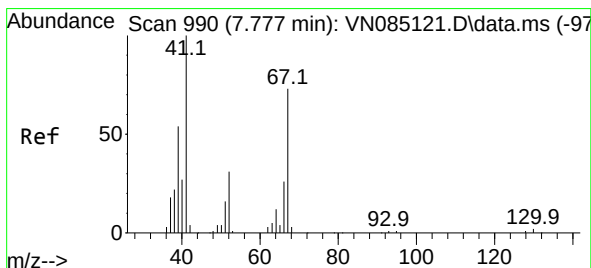
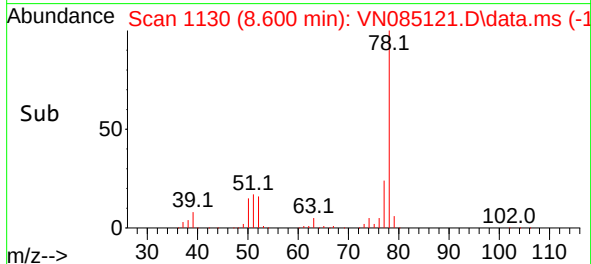
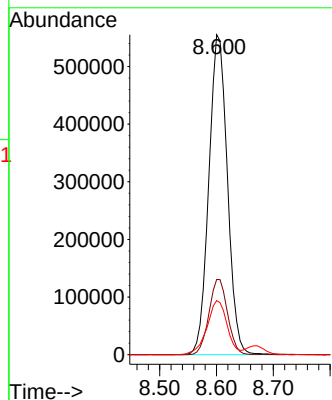
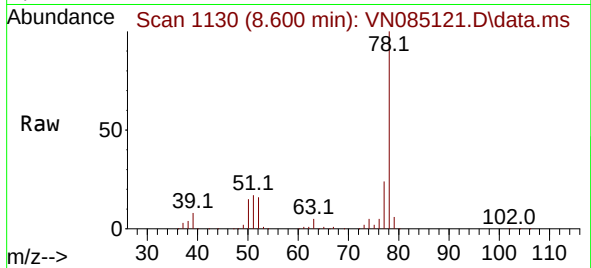
MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 78 Resp: 1259887

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.0	27.0
51	16.8	12.4	18.6



#35

Methacrylonitrile

Concen: 156.078 ug/l

RT: 7.777 min Scan# 990

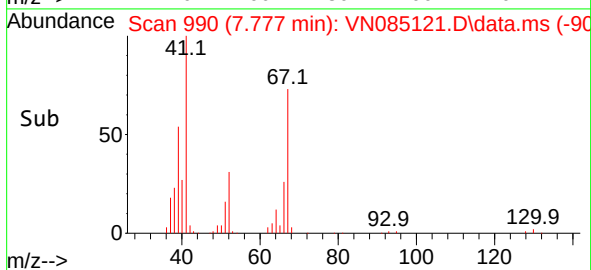
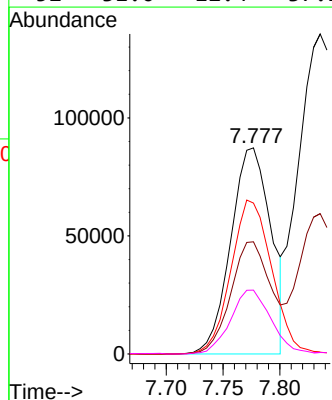
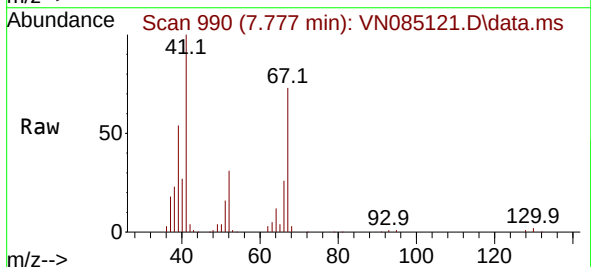
Delta R.T. 0.000 min

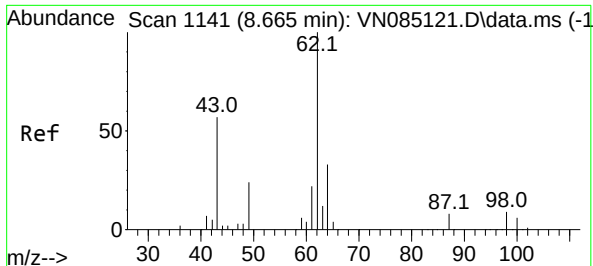
Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Tgt Ion: 41 Resp: 215224

Ion	Ratio	Lower	Upper
41	100		
39	54.3	24.4	73.2
67	73.2	37.0	110.9
52	31.0	12.4	37.2

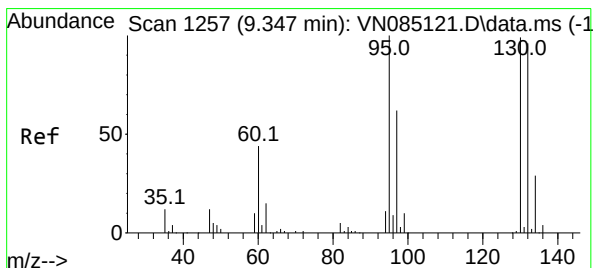
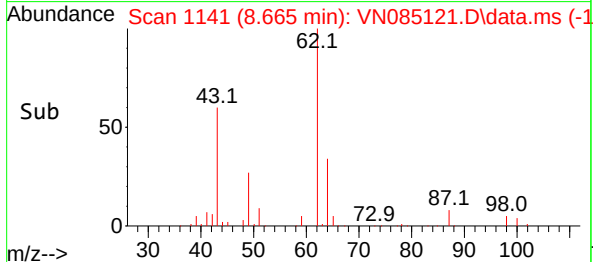
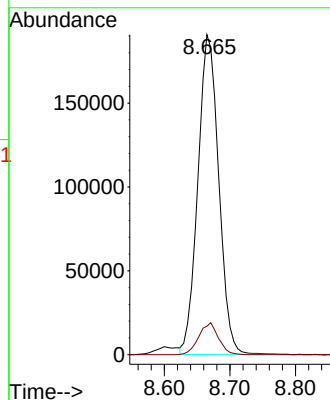
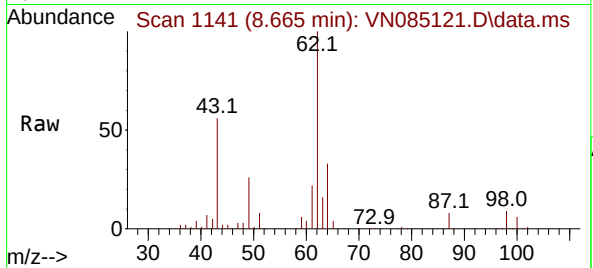




#36
1,2-Dichloroethane
Concen: 147.830 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

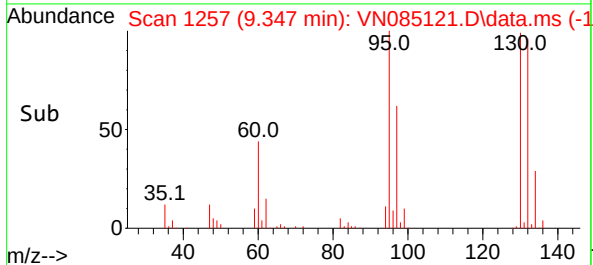
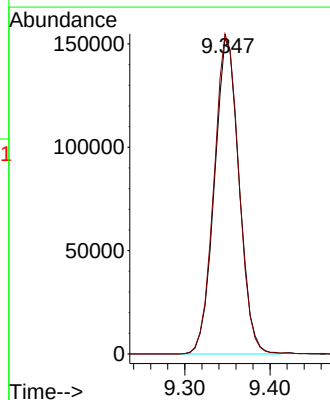
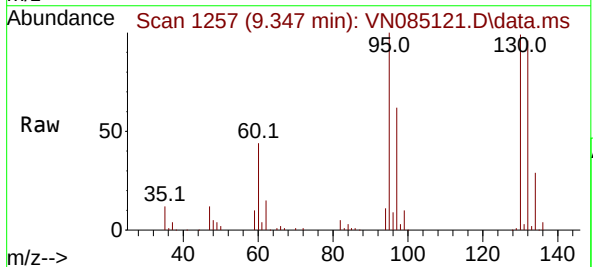
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

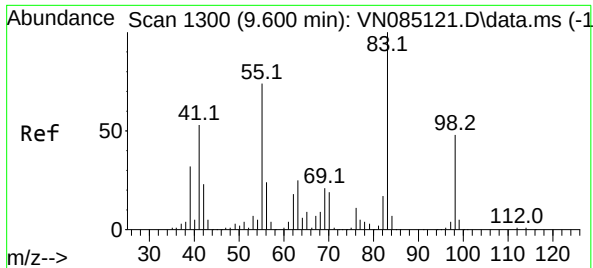
Tgt Ion: 62 Resp: 422140
Ion Ratio Lower Upper
62 100
98 9.4 7.3 10.9



#37
Trichloroethene
Concen: 153.593 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:130 Resp: 306812
Ion Ratio Lower Upper
130 100
95 101.3 76.2 114.4





#38

Methylcyclohexane

Concen: 168.903 ug/l

RT: 9.600 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

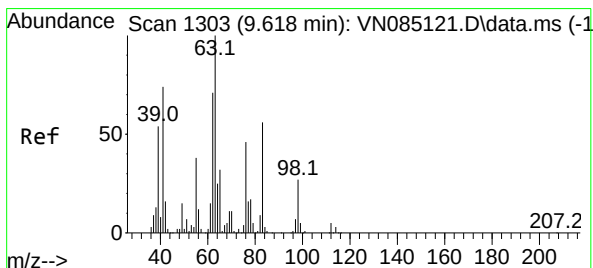
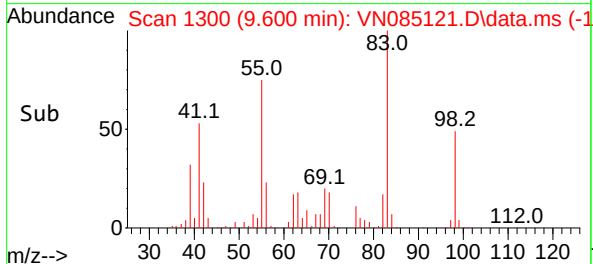
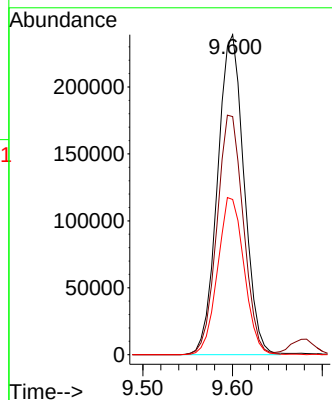
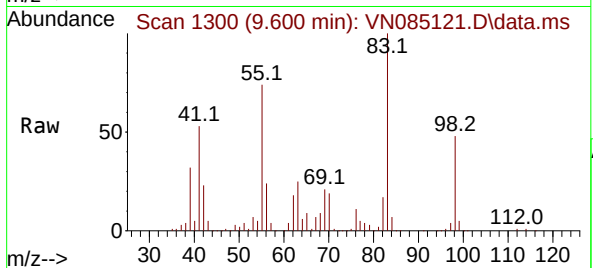
Tgt Ion: 83 Resp: 490389

Ion Ratio Lower Upper

83 100

55 74.7 41.4 124.4

98 49.2 25.7 77.1



#39

1,2-Dichloropropane

Concen: 149.691 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085121.D

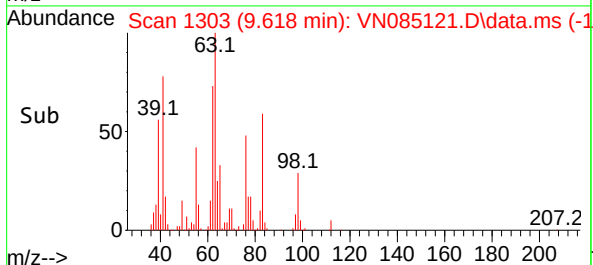
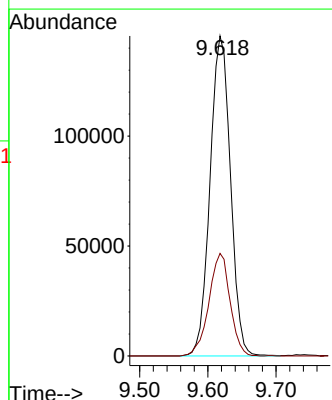
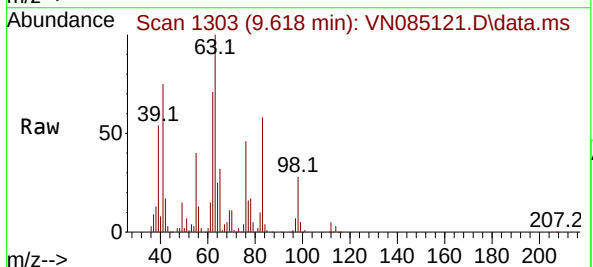
Acq: 06 Dec 2024 11:37

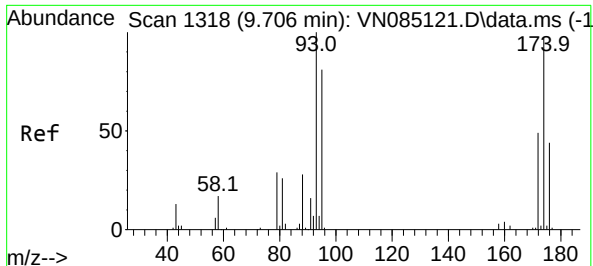
Tgt Ion: 63 Resp: 304138

Ion Ratio Lower Upper

63 100

65 32.1 23.4 35.0

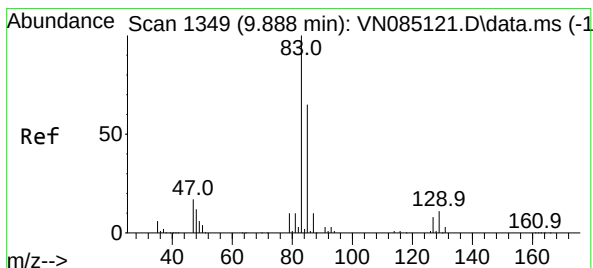
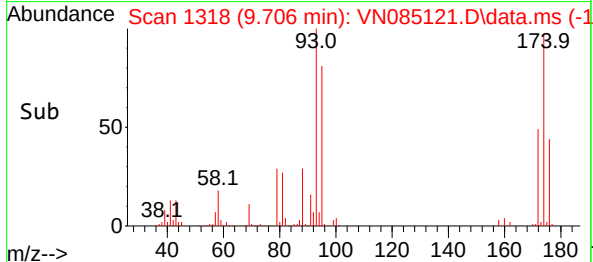
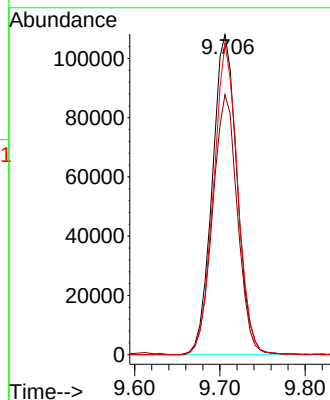
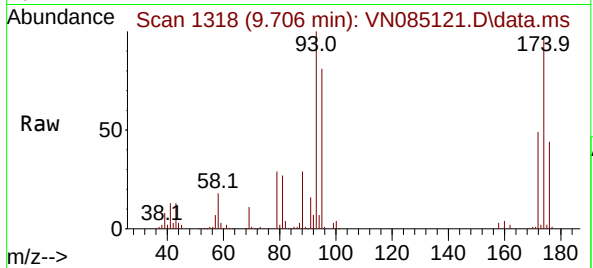




#40
Dibromomethane
Concen: 149.905 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

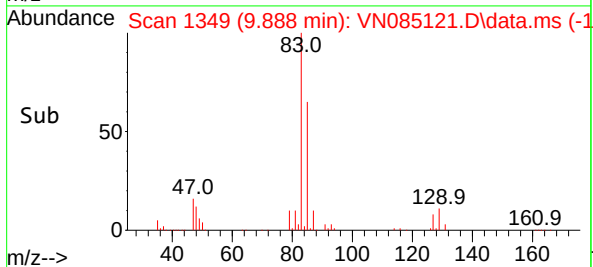
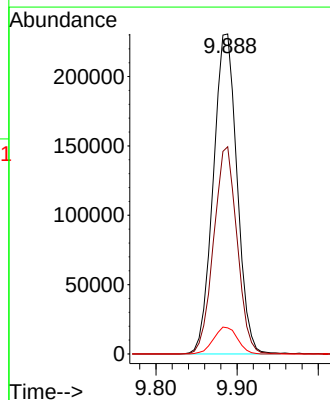
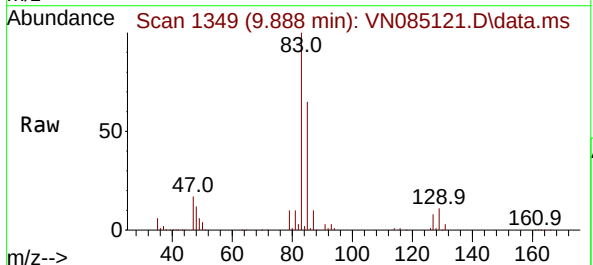
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

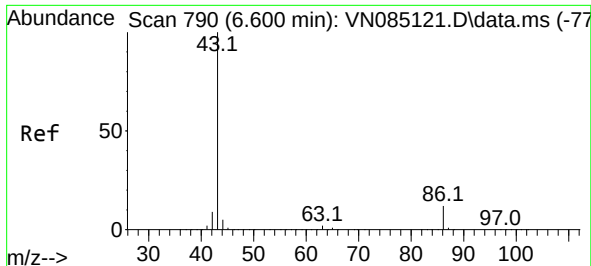
Tgt Ion: 93 Resp: 218470
Ion Ratio Lower Upper
93 100
95 81.5 0.0 169.4
174 94.5 0.0 189.8



#41
Bromodichloromethane
Concen: 150.750 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 83 Resp: 469670
Ion Ratio Lower Upper
83 100
85 64.7 54.6 81.8
127 8.2 7.0 10.6

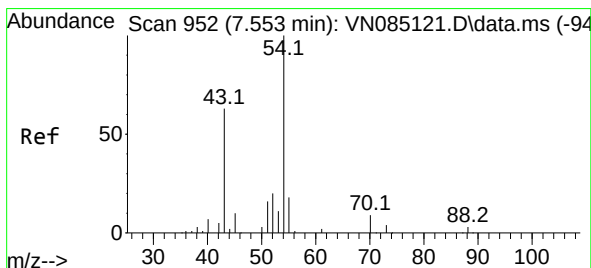
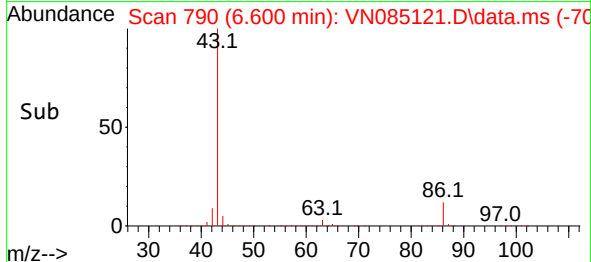
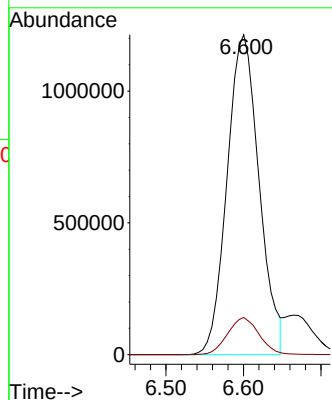
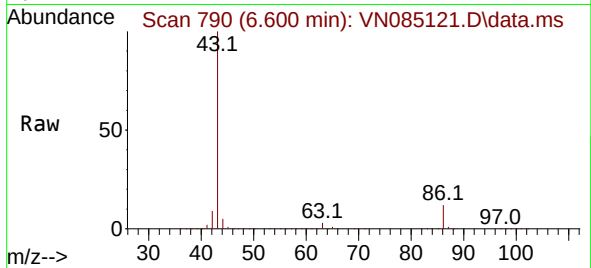




#42
 Vinyl Acetate
 Concen: 814.821 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

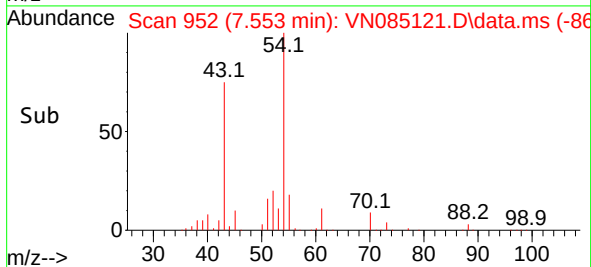
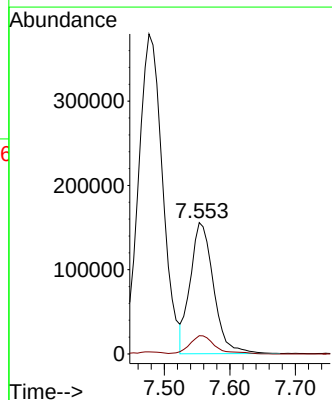
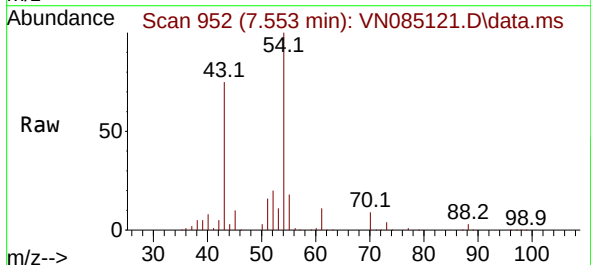
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

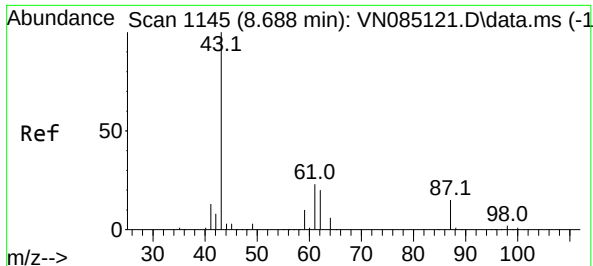
Tgt Ion: 43 Resp: 3493830
 Ion Ratio Lower Upper
 43 100
 86 11.5 9.2 13.8



#43
 Ethyl Acetate
 Concen: 156.937 ug/l
 RT: 7.553 min Scan# 952
 Delta R.T. -0.006 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion: 43 Resp: 382630
 Ion Ratio Lower Upper
 43 100
 45 14.9 13.3 19.9

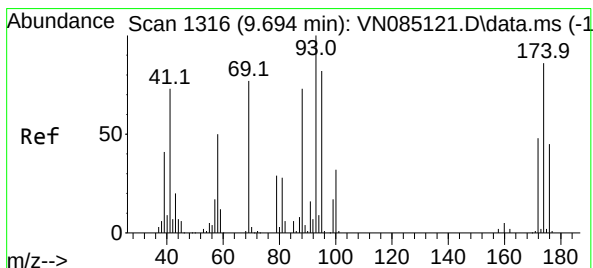
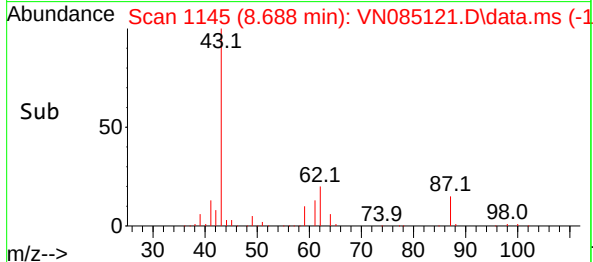
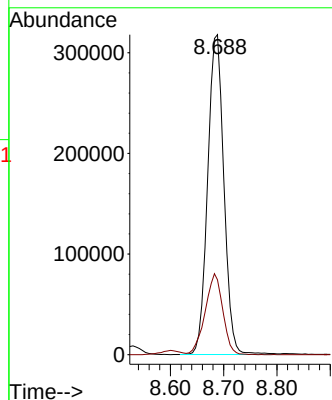
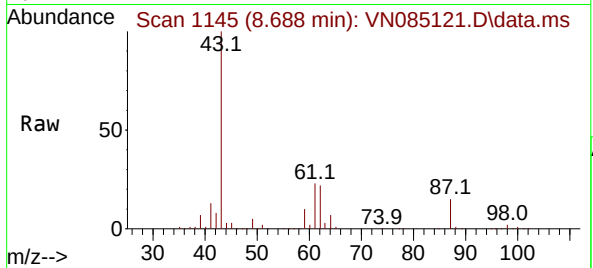




#44
Isopropyl Acetate
Concen: 158.696 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

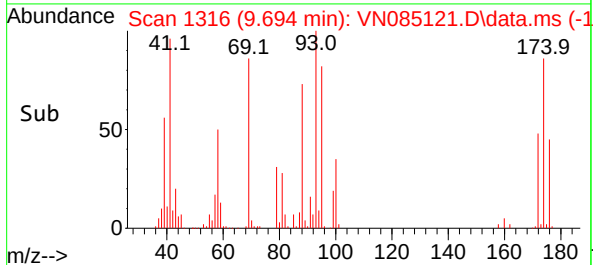
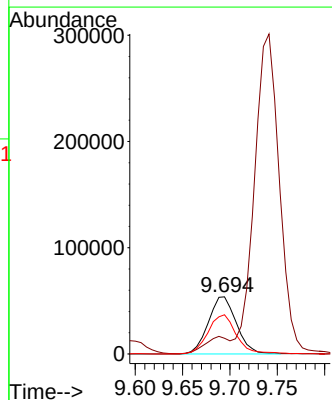
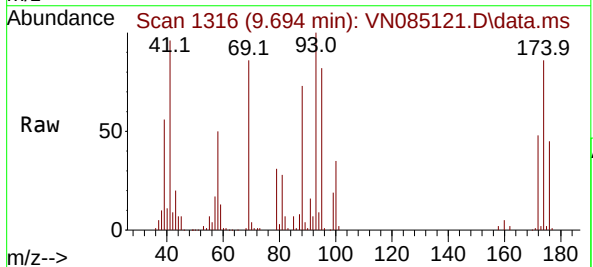
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

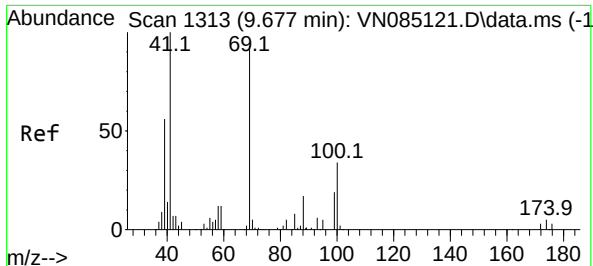
Tgt Ion: 43 Resp: 672392
Ion Ratio Lower Upper
43 100
61 27.5 21.5 32.3



#45
1,4-Dioxane
Concen: 3147.777 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 88 Resp: 111218
Ion Ratio Lower Upper
88 100
43 25.9 21.7 32.5
58 69.4 52.6 79.0

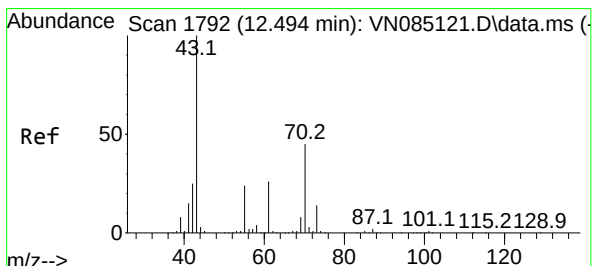
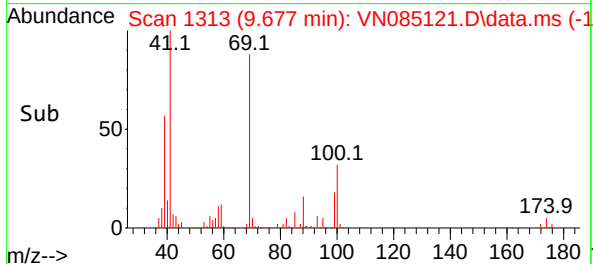
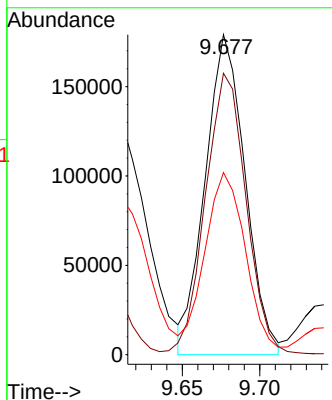
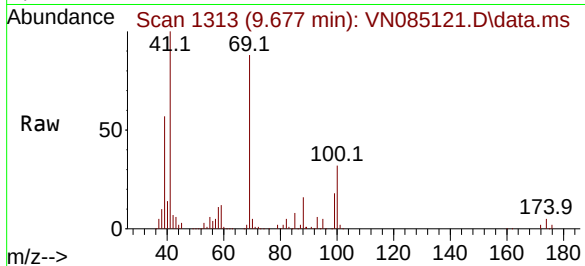




#46
Methyl methacrylate
Concen: 165.471 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

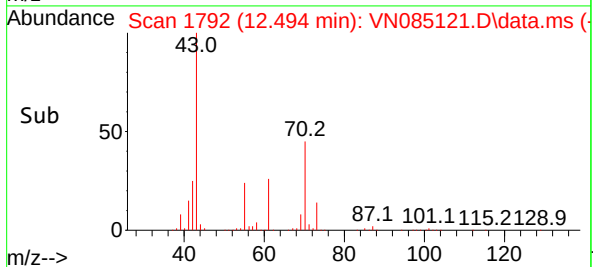
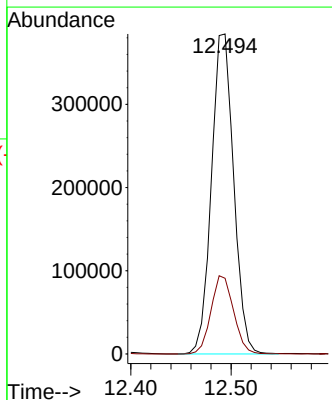
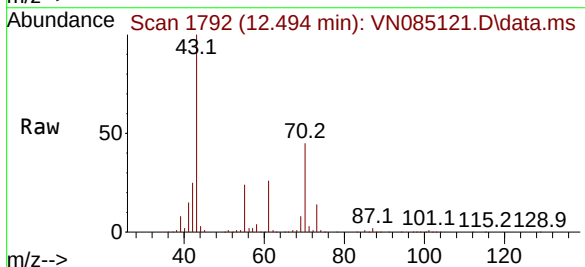
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

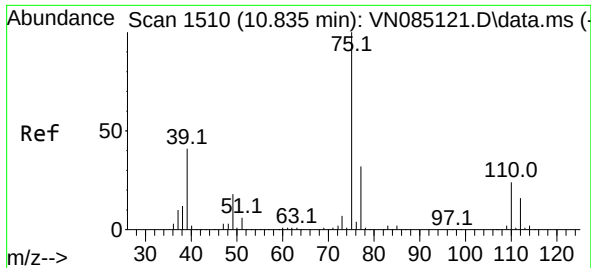
Tgt Ion: 41 Resp: 320862
Ion Ratio Lower Upper
41 100
69 88.7 46.7 140.0
39 56.7 28.5 85.5



#47
n-amy1 Acetate
Concen: 166.246 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 43 Resp: 592642
Ion Ratio Lower Upper
43 100
55 24.8 23.3 34.9

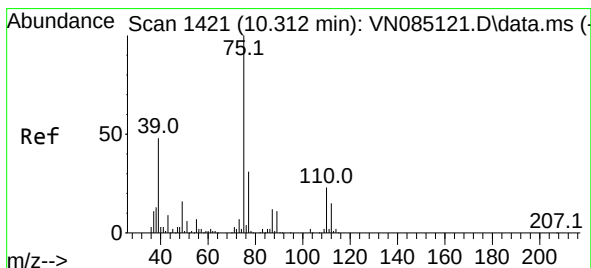
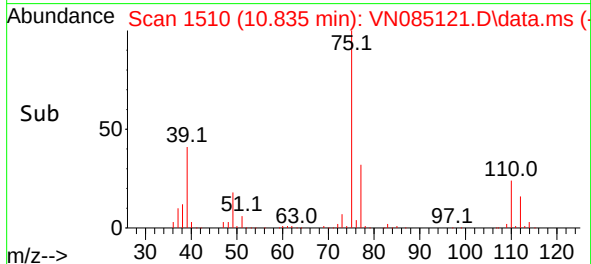
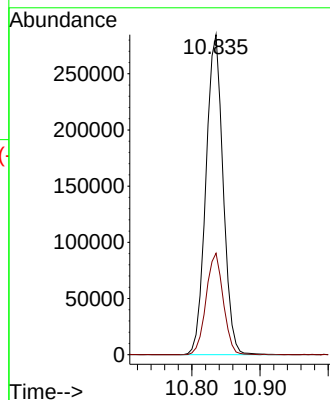
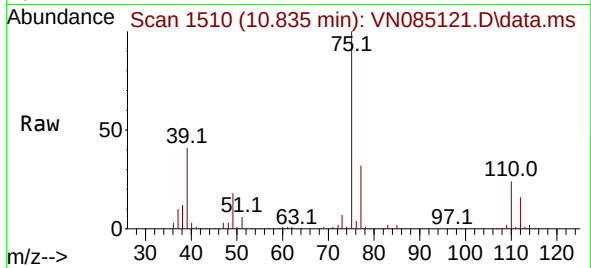




#48
 t-1,3-Dichloropropene
 Concen: 163.202 ug/l
 RT: 10.835 min Scan# 1510
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

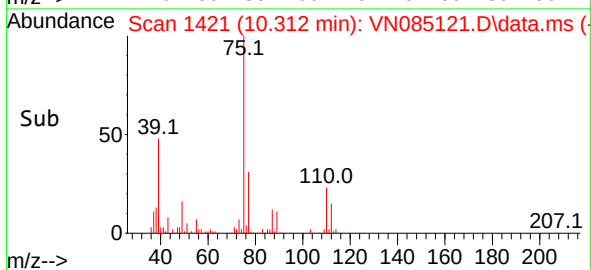
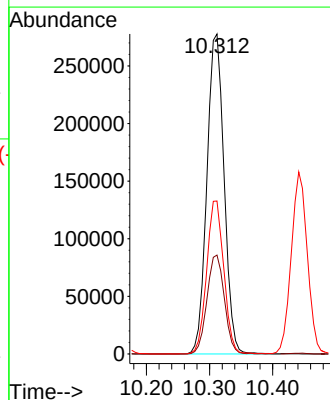
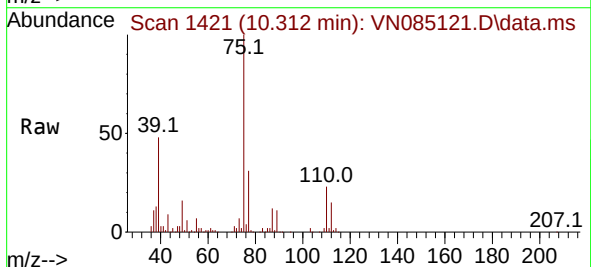
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

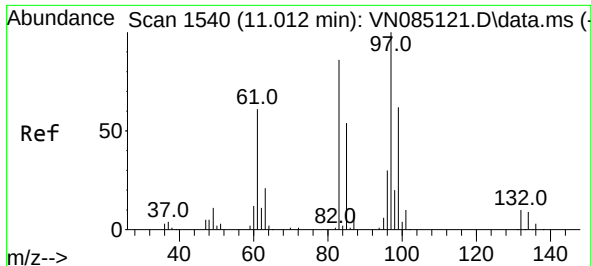
Tgt Ion: 75 Resp: 499133
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.5 38.3



#49
 cis-1,3-Dichloropropene
 Concen: 157.986 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion: 75 Resp: 525997
 Ion Ratio Lower Upper
 75 100
 77 30.9 23.8 35.6
 39 47.7 37.3 55.9



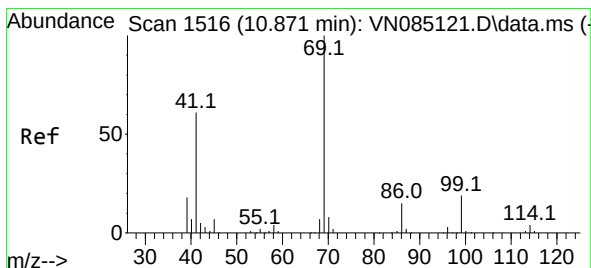
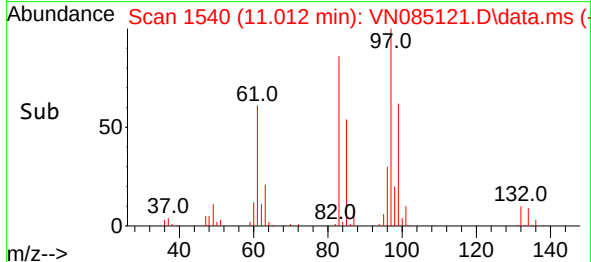
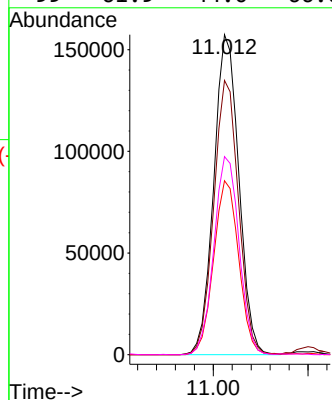
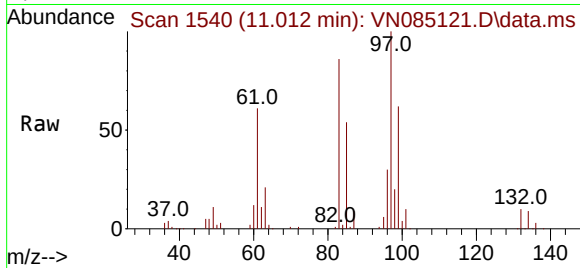


#50
1,1,2-Trichloroethane
Concen: 147.159 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 97 Resp: 289001

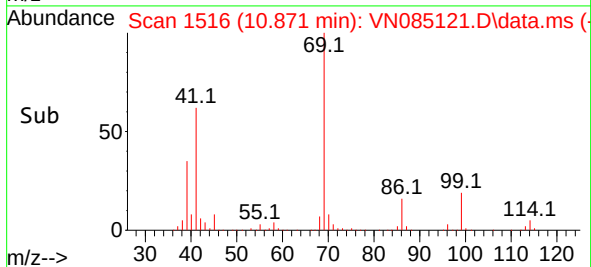
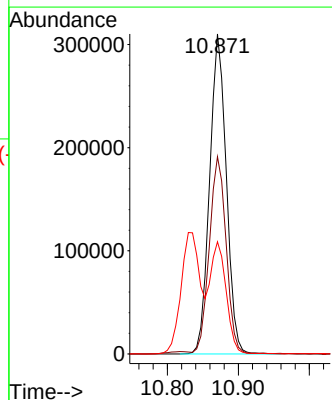
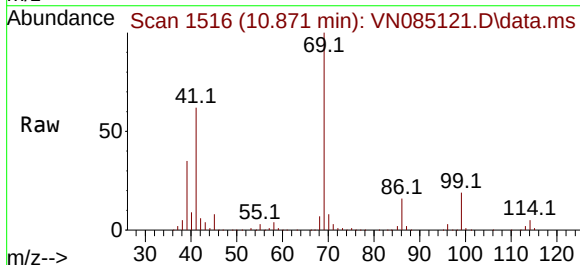
Ion	Ratio	Lower	Upper
97	100		
83	85.7	65.8	98.8
85	54.3	40.8	61.2
99	61.9	44.0	66.0

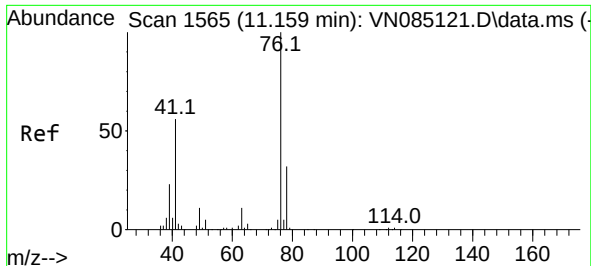


#51
Ethyl methacrylate
Concen: 169.495 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 69 Resp: 506274

Ion	Ratio	Lower	Upper
69	100		
41	61.4	32.1	96.3
39	35.0	18.8	56.4

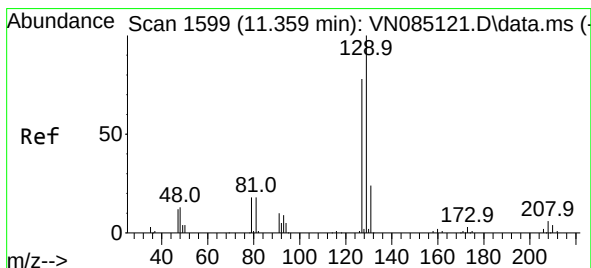
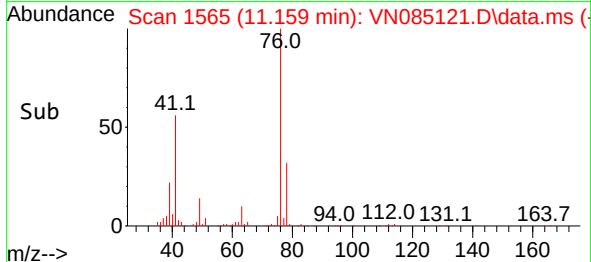
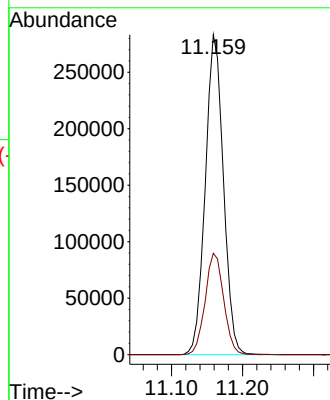
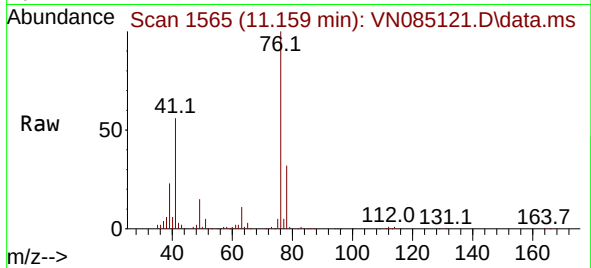




#52
1,3-Dichloropropane
Concen: 152.638 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

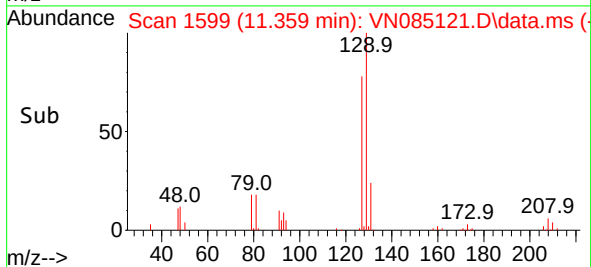
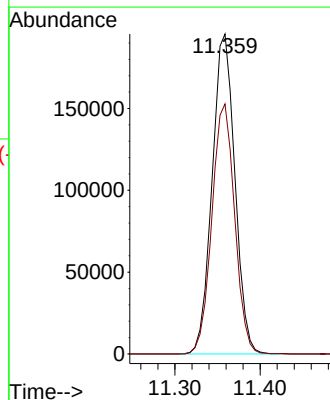
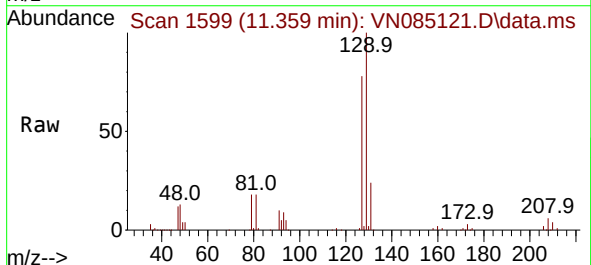
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

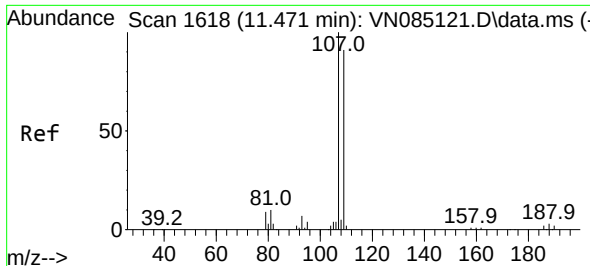
Tgt Ion: 76 Resp: 501665
Ion Ratio Lower Upper
76 100
78 32.5 0.0 65.6



#53
Dibromochloromethane
Concen: 151.395 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 129 Resp: 362326
Ion Ratio Lower Upper
129 100
127 78.1 37.3 111.9

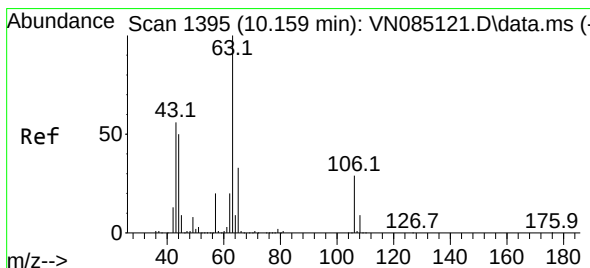
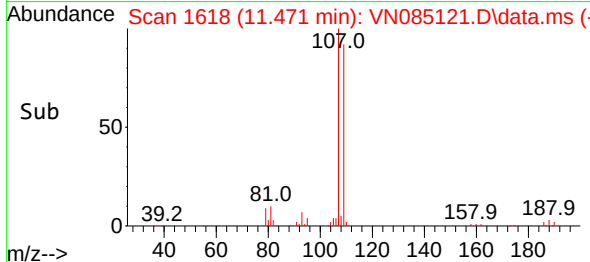
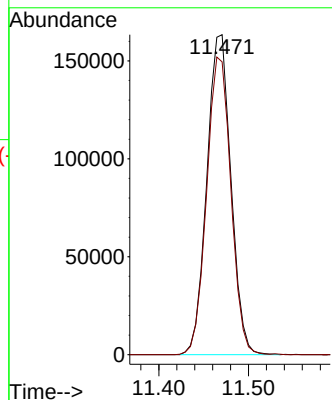
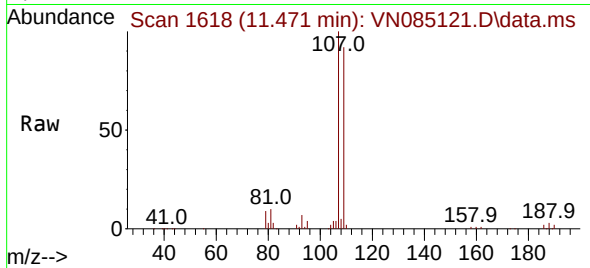




#54
1,2-Dibromoethane
Concen: 154.261 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

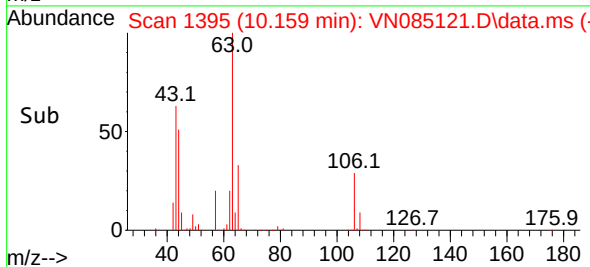
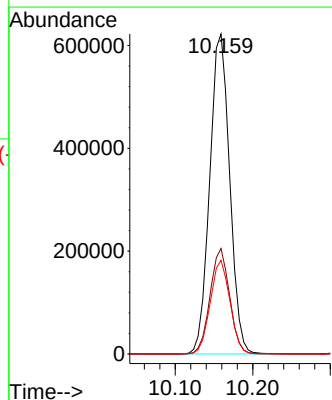
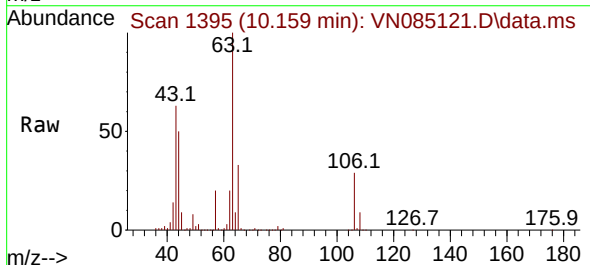
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

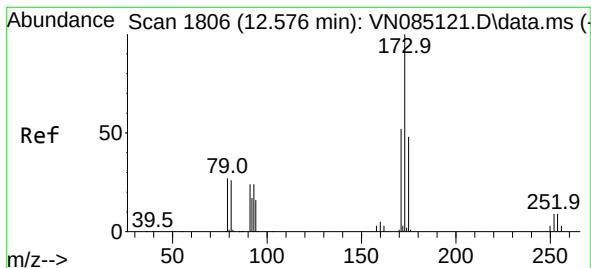
Tgt Ion:107 Resp: 305232
Ion Ratio Lower Upper
107 100
109 93.3 75.2 112.8



#55
2-Chloroethyl vinyl ether
Concen: 801.795 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 63 Resp: 1112538
Ion Ratio Lower Upper
63 100
65 32.2 25.9 38.9
106 28.9 23.5 35.3





#56

Bromoform

Concen: 155.551 ug/l

RT: 12.576 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

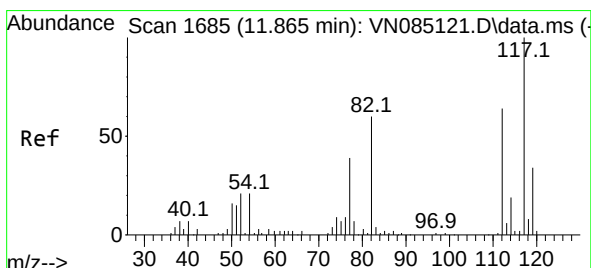
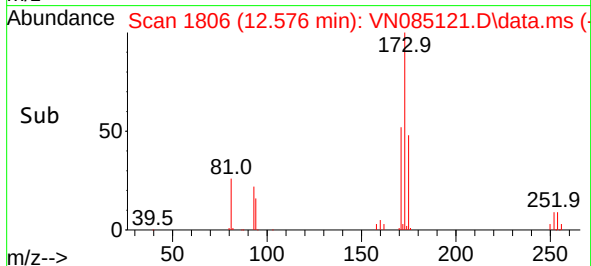
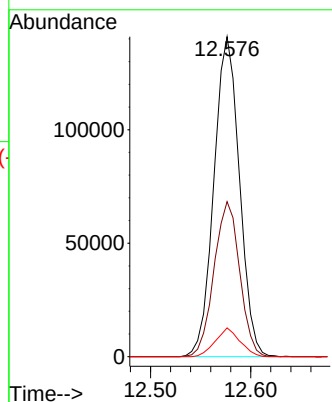
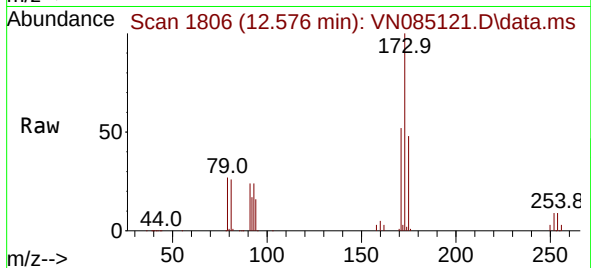
Tgt Ion:173 Resp: 249601

Ion Ratio Lower Upper

173 100

175 48.6 40.2 60.2

254 8.7 6.2 9.4



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

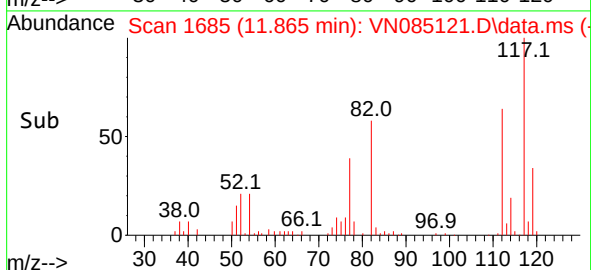
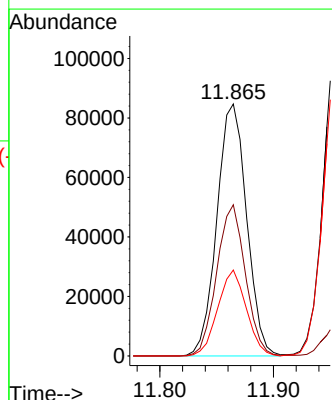
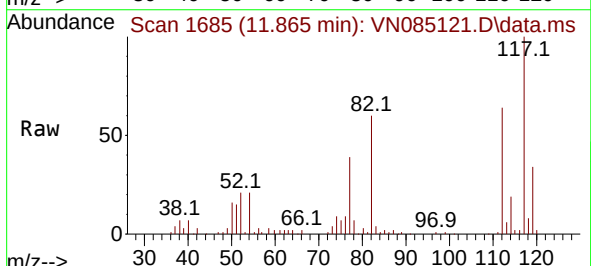
Tgt Ion:117 Resp: 154258

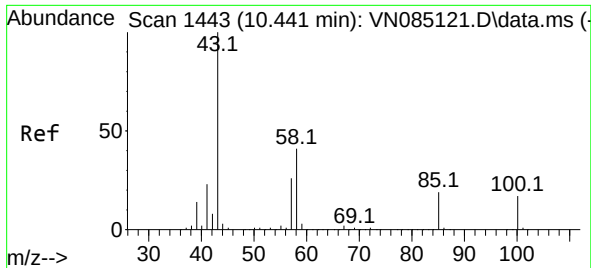
Ion Ratio Lower Upper

117 100

82 57.8 44.2 66.4

119 32.7 25.4 38.2



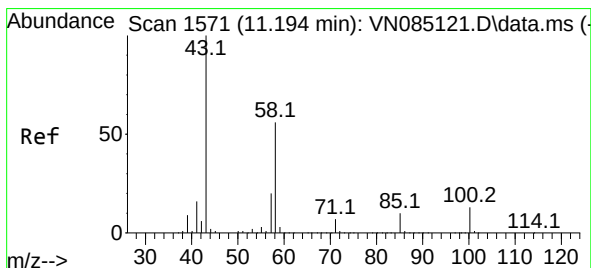
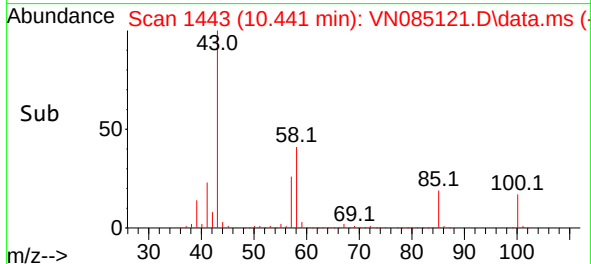
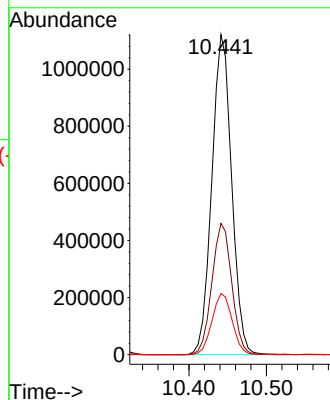
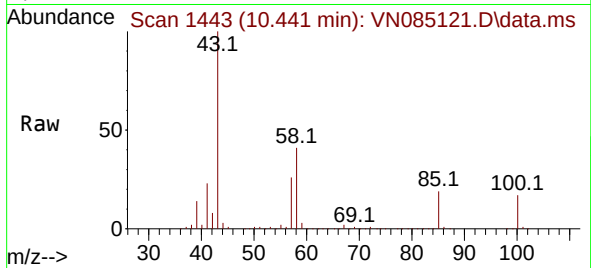


#58
4-Methyl-2-Pentanone
Concen: 789.691 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1988082

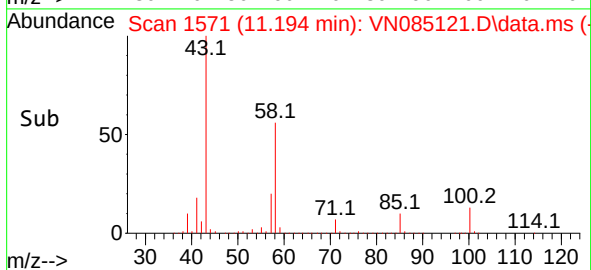
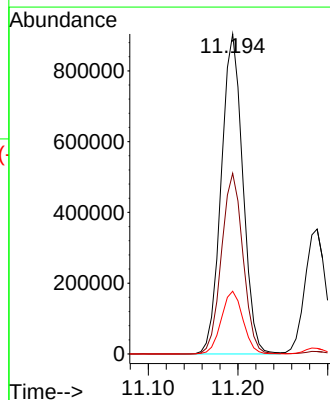
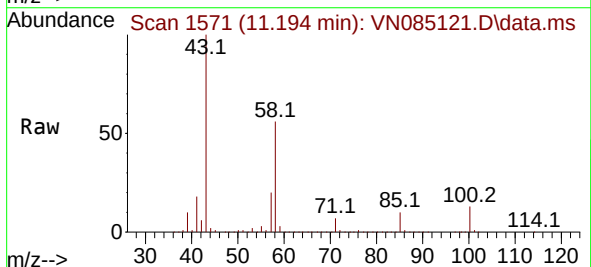
Ion	Ratio	Lower	Upper
43	100		
58	41.2	31.6	47.4
85	19.5	15.0	22.6

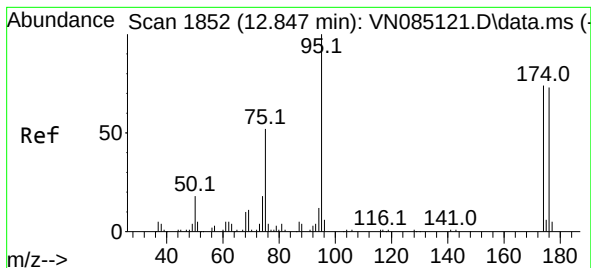


#59
2-Hexanone
Concen: 790.966 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 43 Resp: 1508817

Ion	Ratio	Lower	Upper
43	100		
58	56.3	43.6	65.4
57	19.7	15.4	23.0

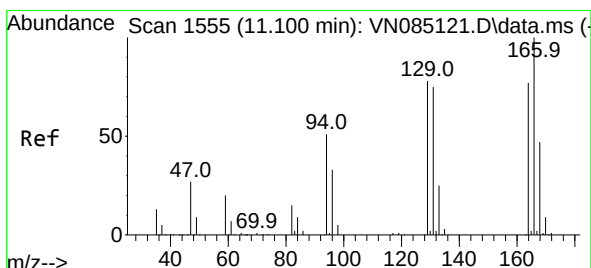
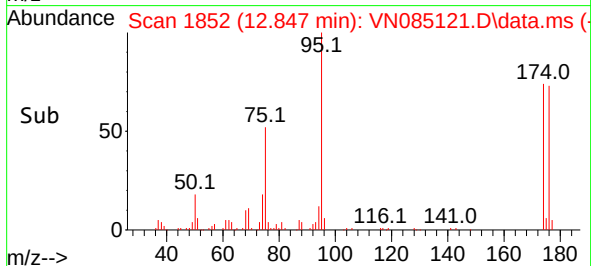
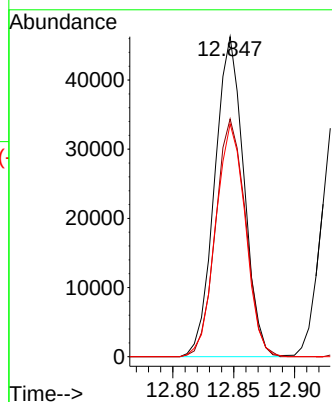
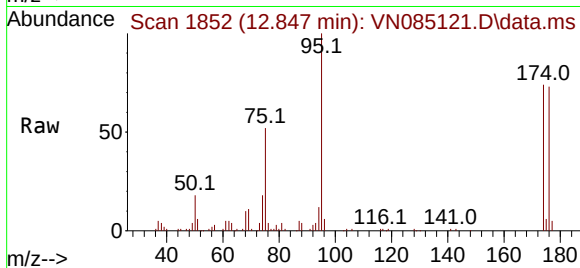




#60
4-Bromofluorobenzene
Concen: 30.183 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

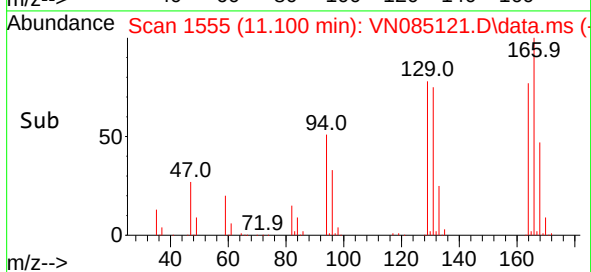
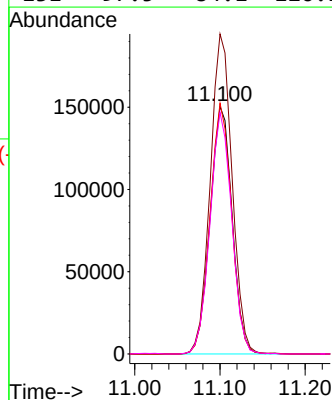
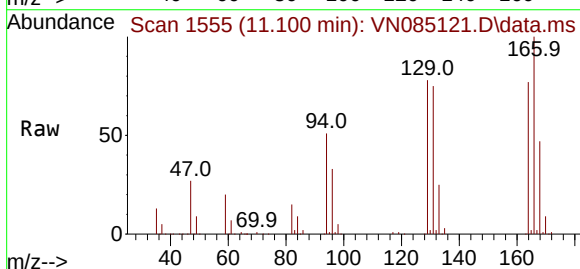
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

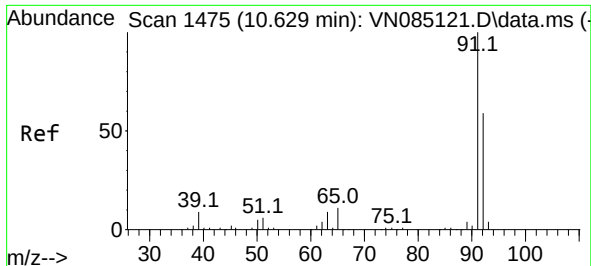
Tgt Ion: 95 Resp: 77038
Ion Ratio Lower Upper
95 100
174 76.4 60.3 90.5
176 74.3 57.4 86.0



#61
Tetrachloroethene
Concen: 144.976 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 164 Resp: 270825
Ion Ratio Lower Upper
164 100
166 129.3 103.8 155.8
129 101.3 84.2 126.4
131 97.5 84.1 126.1

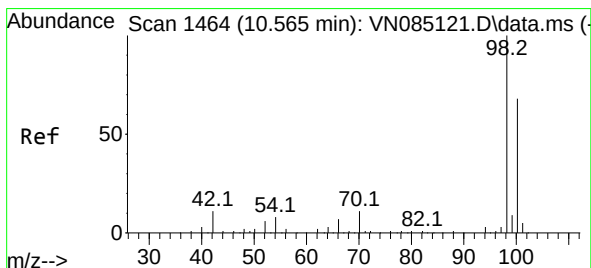
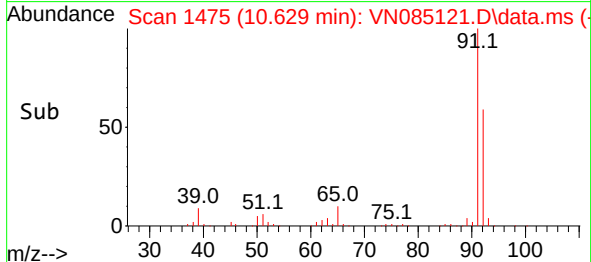
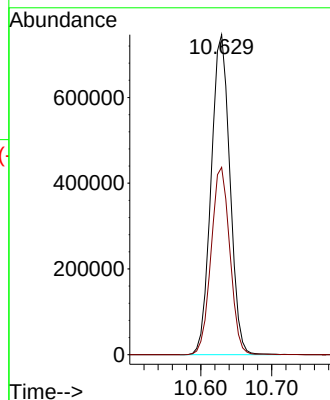
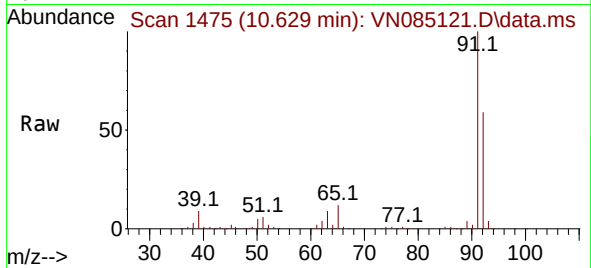




#62
Toluene
Concen: 152.311 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

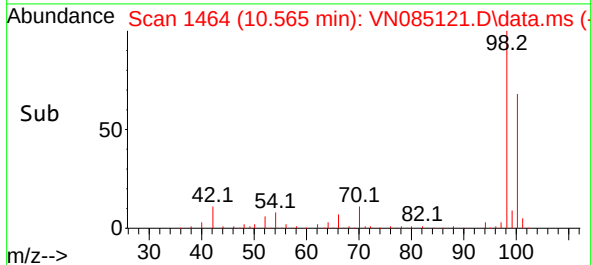
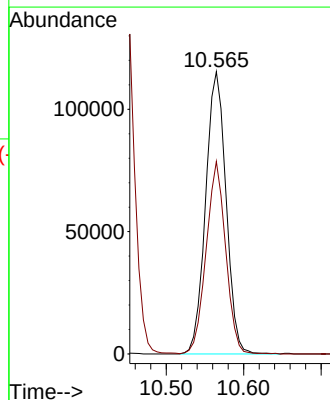
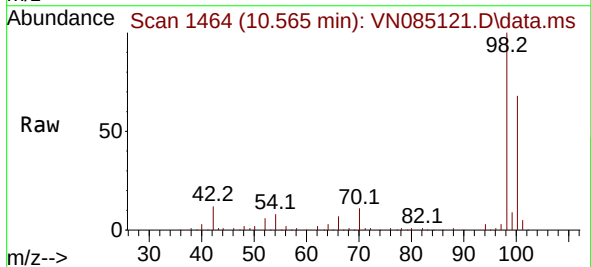
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

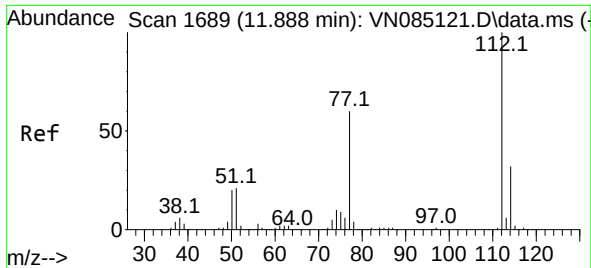
Tgt Ion: 91 Resp: 1370241
Ion Ratio Lower Upper
91 100
92 58.5 46.5 69.7



#63
Toluene-d8
Concen: 29.150 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 98 Resp: 210929
Ion Ratio Lower Upper
98 100
100 65.2 52.0 78.0

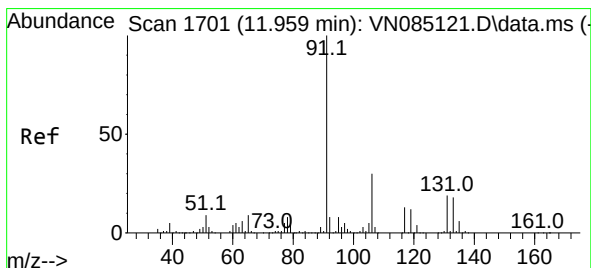
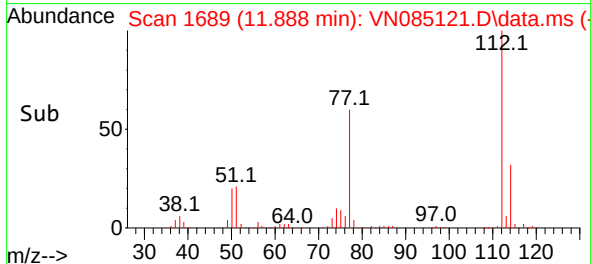
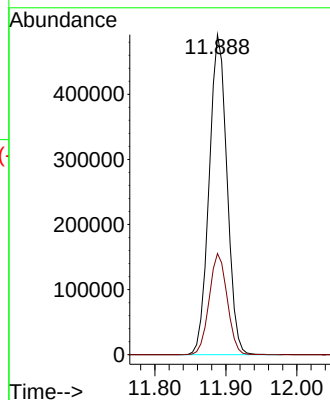
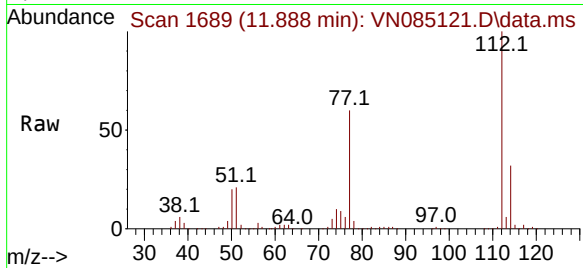




#64
Chlorobenzene
Concen: 154.562 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

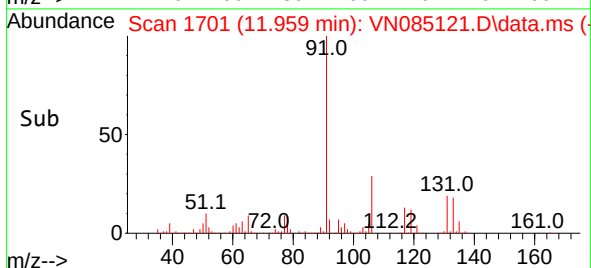
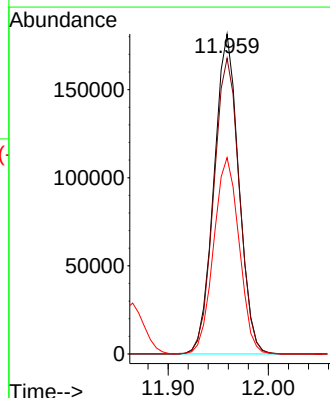
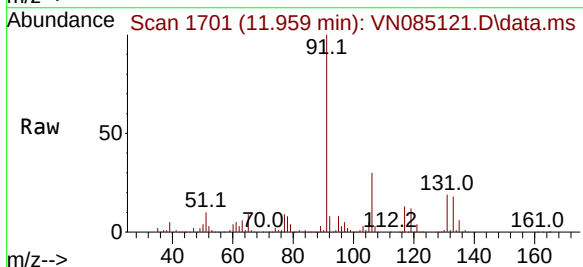
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

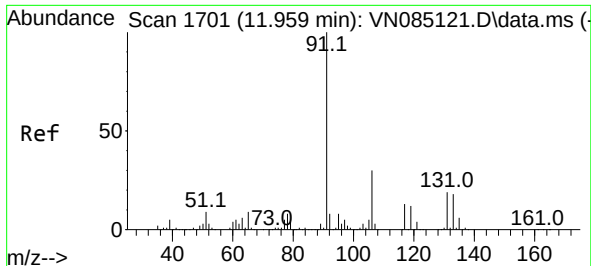
Tgt Ion:112 Resp: 858494
Ion Ratio Lower Upper
112 100
114 31.6 26.0 39.0



#65
1,1,1,2-Tetrachloroethane
Concen: 150.134 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:131 Resp: 311301
Ion Ratio Lower Upper
131 100
133 95.3 0.0 194.0
119 63.1 0.0 131.8

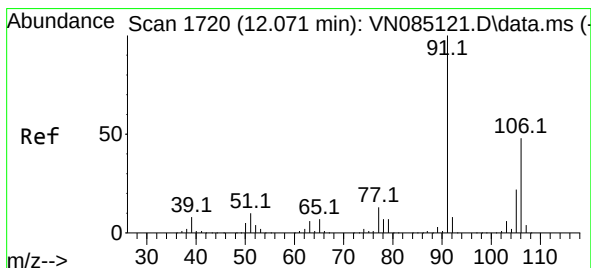
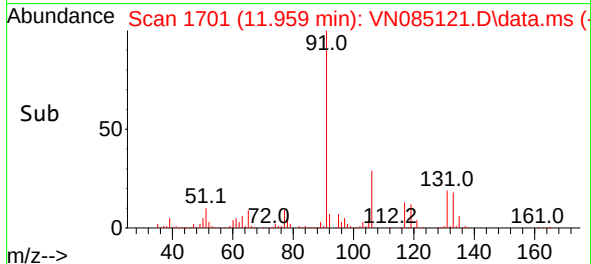
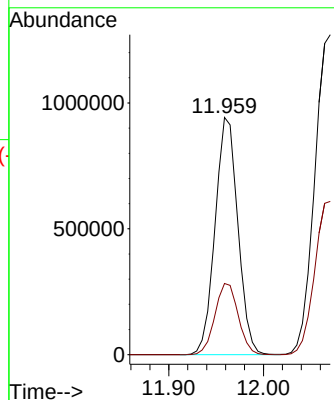
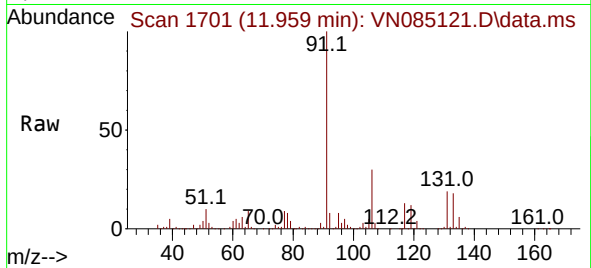




#66
Ethyl Benzene
Concen: 164.874 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

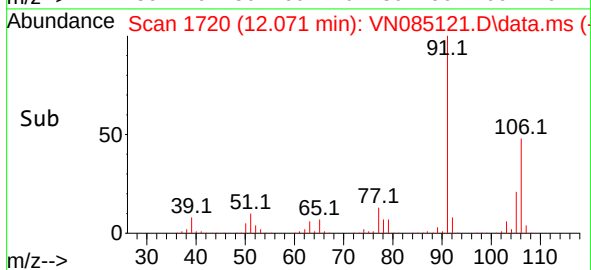
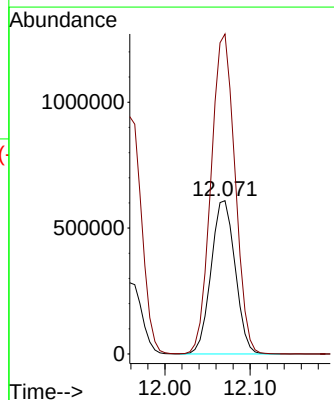
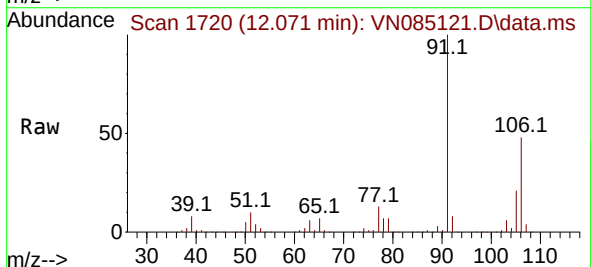
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

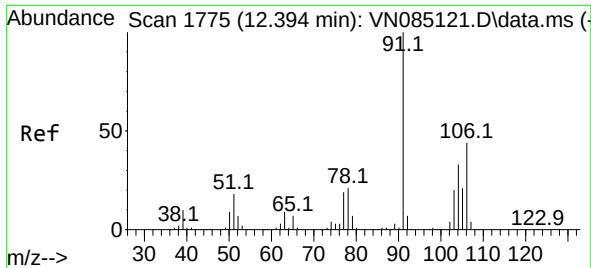
Tgt Ion: 91 Resp: 1573924
Ion Ratio Lower Upper
91 100
106 30.0 23.1 34.7



#67
m/p-Xylenes
Concen: 325.683 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:106 Resp: 1195807
Ion Ratio Lower Upper
106 100
91 208.3 165.0 247.4

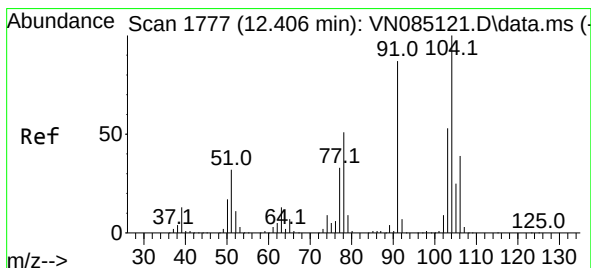
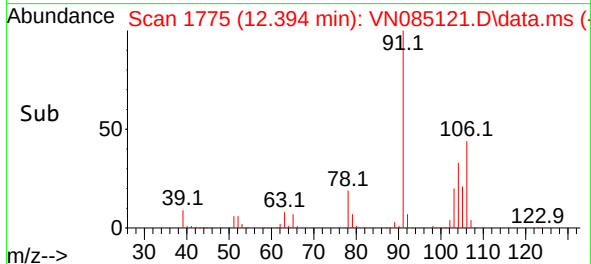
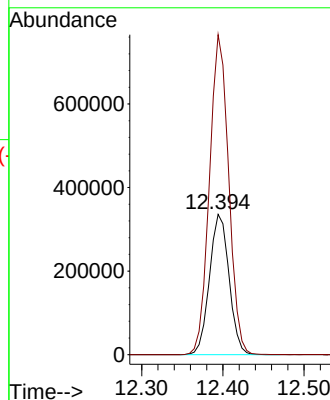
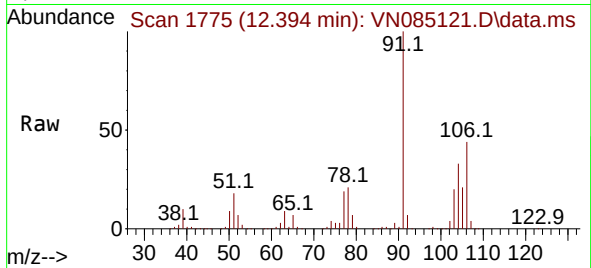




#68
o-Xylene
Concen: 163.091 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

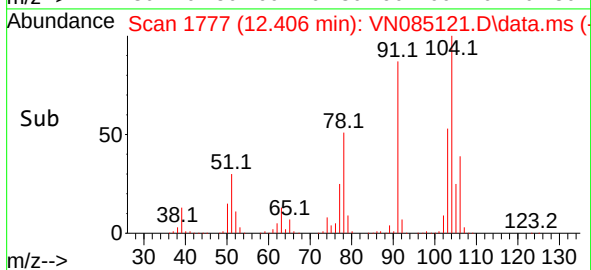
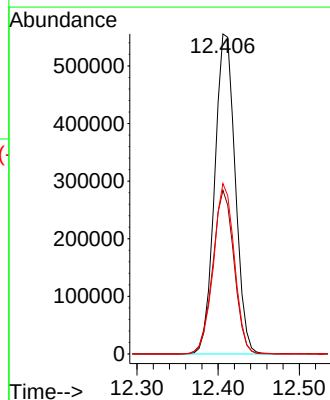
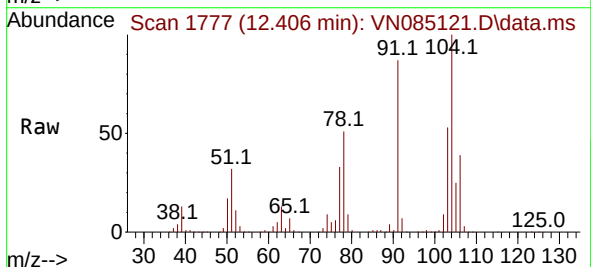
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

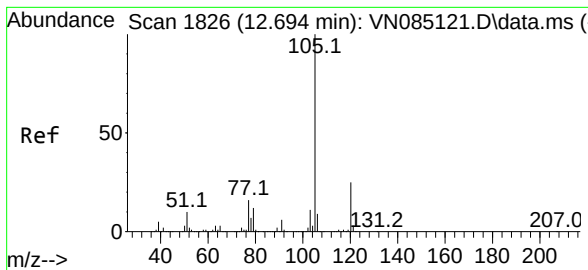
Tgt Ion:106 Resp: 562377
Ion Ratio Lower Upper
106 100
91 224.1 112.1 336.4



#69
Styrene
Concen: 166.883 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:104 Resp: 976478
Ion Ratio Lower Upper
104 100
78 53.0 42.3 63.5
103 54.4 44.4 66.6

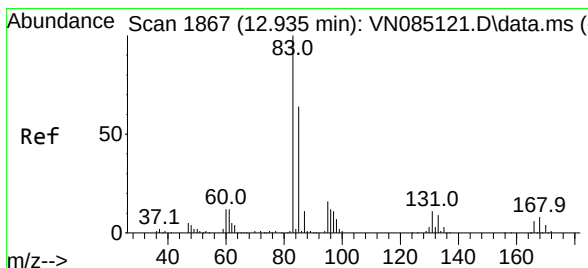
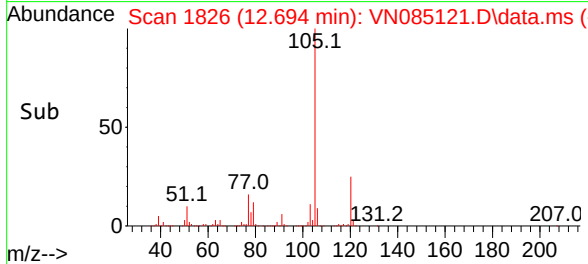
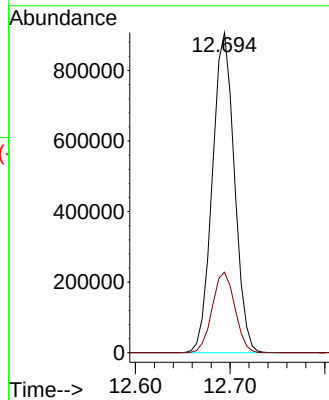
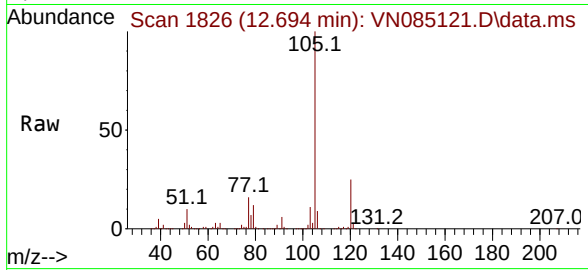




#70
Isopropylbenzene
Concen: 165.057 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

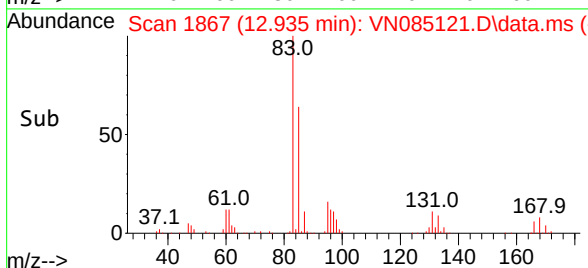
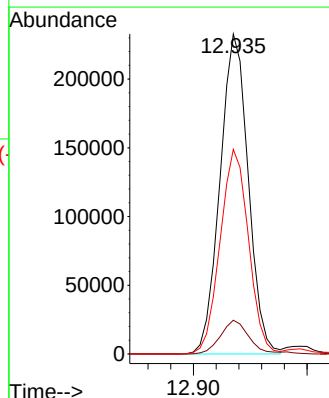
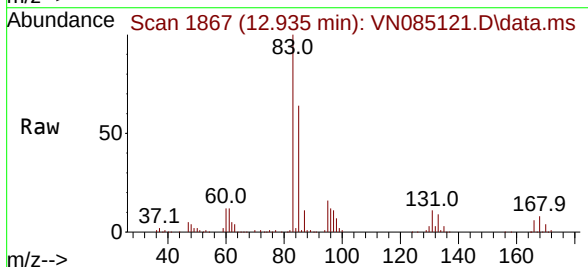
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

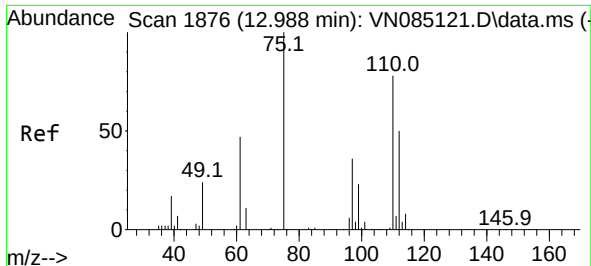
Tgt Ion:105 Resp: 1467994
Ion Ratio Lower Upper
105 100
120 25.8 18.3 33.9



#71
1,1,2,2-Tetrachloroethane
Concen: 148.393 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 83 Resp: 401707
Ion Ratio Lower Upper
83 100
131 10.5 5.1 15.3
85 64.4 31.1 93.5

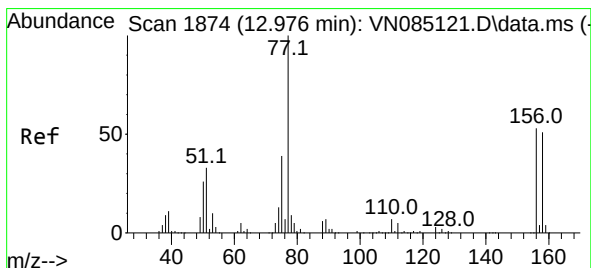
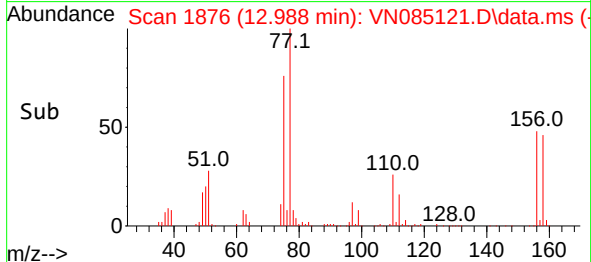
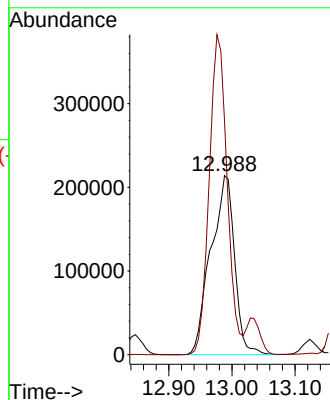
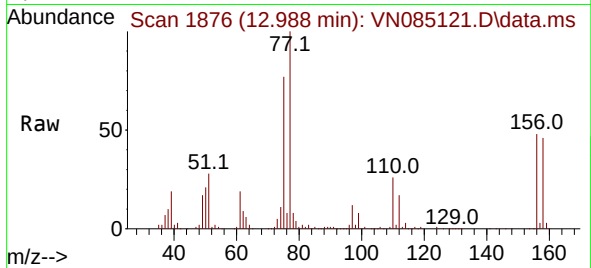




#72
1,2,3-Trichloropropane
Concen: 209.140 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

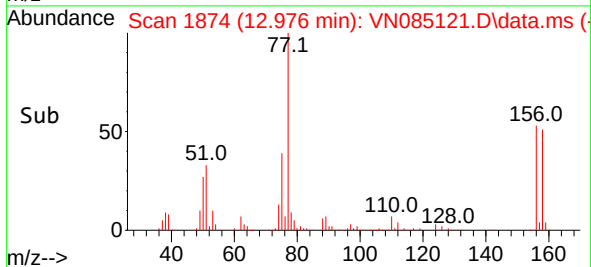
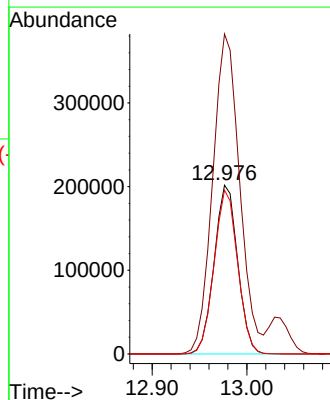
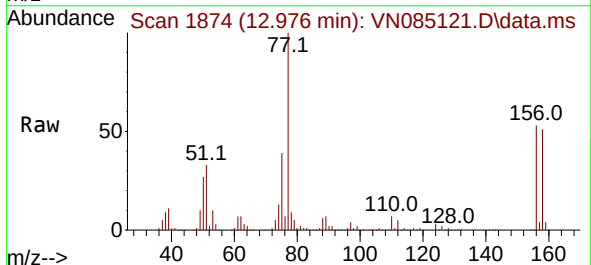
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

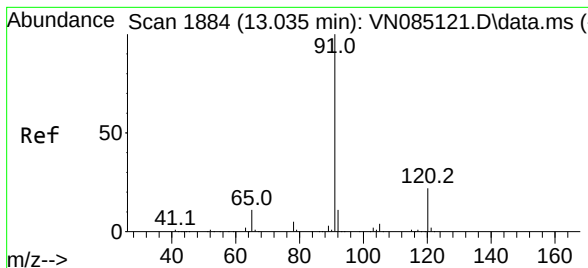
Tgt Ion: 75 Resp: 559263
Ion Ratio Lower Upper
75 100
77 135.6 0.0 339.0



#73
Bromobenzene
Concen: 156.185 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:156 Resp: 347939
Ion Ratio Lower Upper
156 100
77 217.9 0.0 430.4
158 97.0 0.0 195.2





#74

n-propylbenzene

Concen: 163.317 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

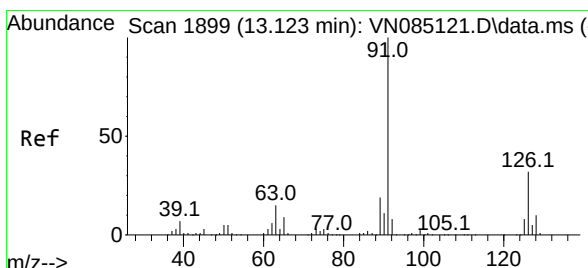
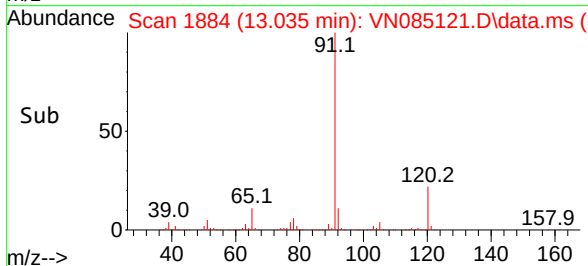
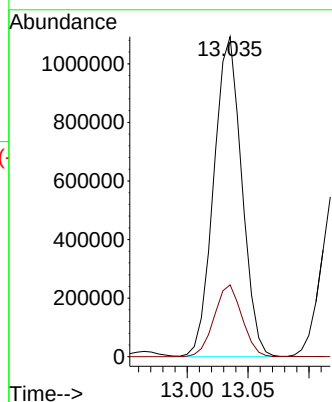
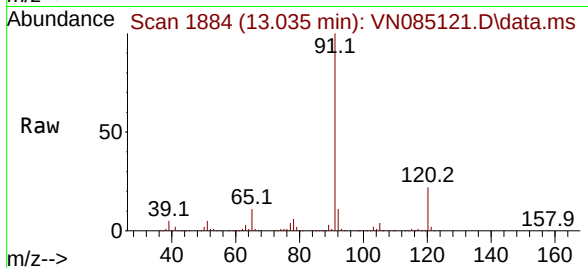
VSTDIC150

Tgt Ion: 91 Resp: 1746230

Ion Ratio Lower Upper

91 100

120 22.3 0.0 44.0



#75

2-Chlorotoluene

Concen: 159.945 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085121.D

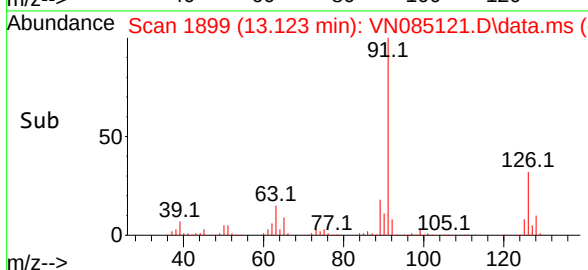
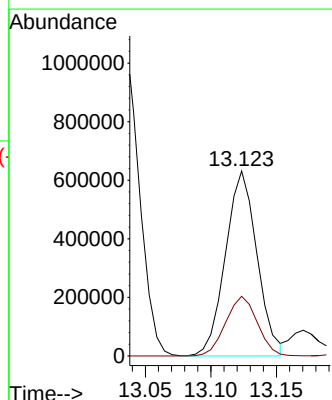
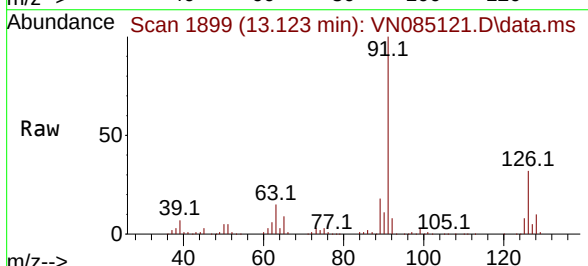
Acq: 06 Dec 2024 11:37

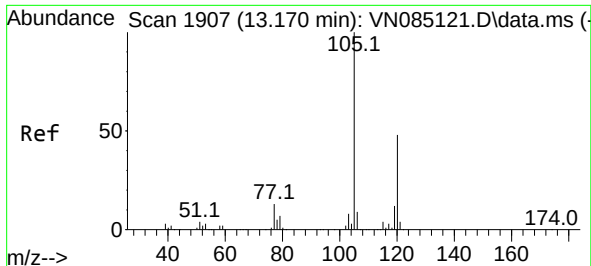
Tgt Ion: 91 Resp: 1057392

Ion Ratio Lower Upper

91 100

126 32.3 0.0 64.2

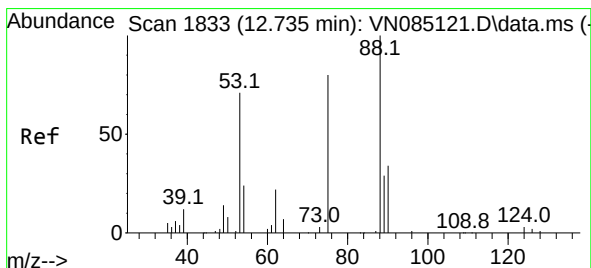
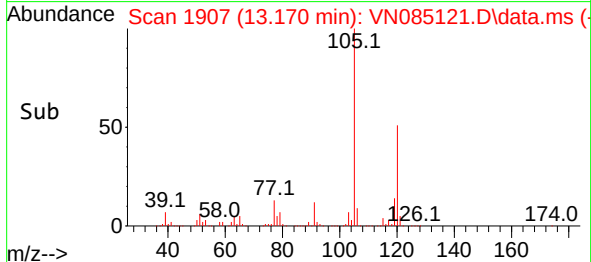
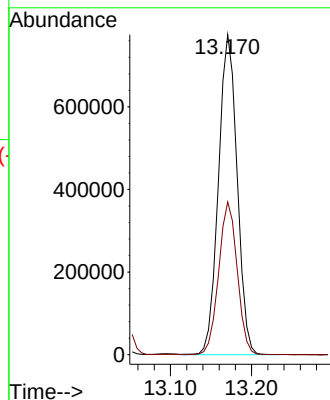
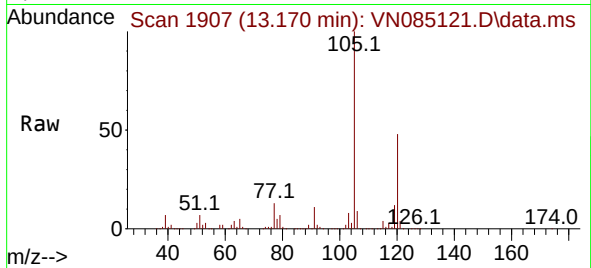




#76
1,3,5-Trimethylbenzene
Concen: 162.904 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

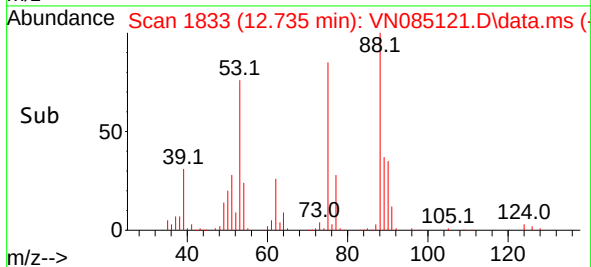
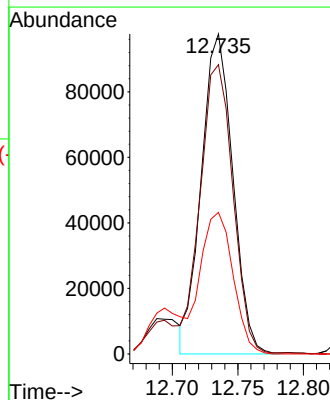
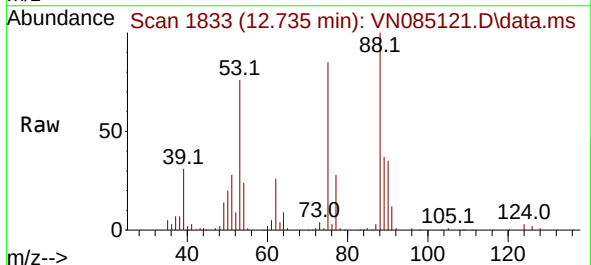
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

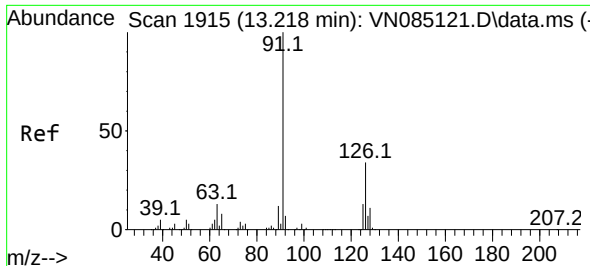
Tgt Ion:105 Resp: 1241282
Ion Ratio Lower Upper
105 100
120 47.2 0.0 94.4



#77
t-1,4-Dichloro-2-butene
Concen: 168.075 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 75 Resp: 163318
Ion Ratio Lower Upper
75 100
53 90.2 49.1 147.3
89 44.4 22.9 68.5

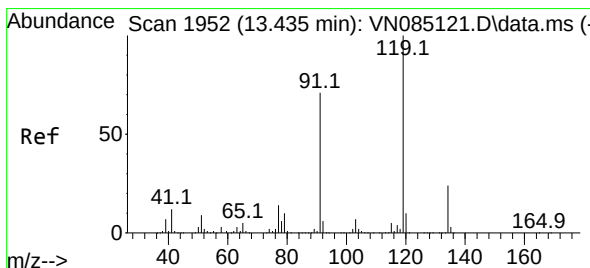
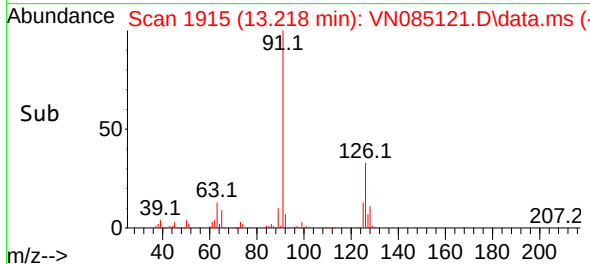
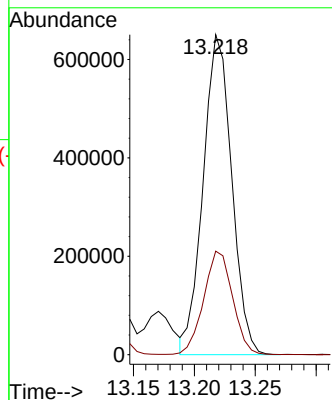
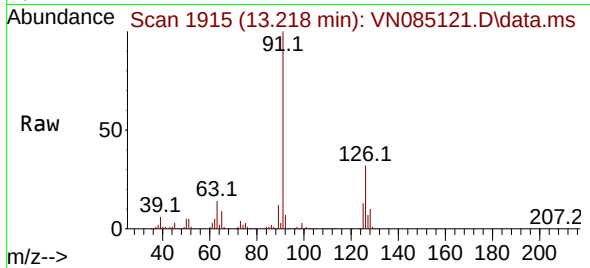




#78
4-Chlorotoluene
Concen: 158.383 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

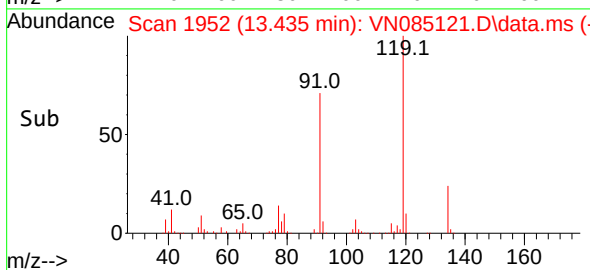
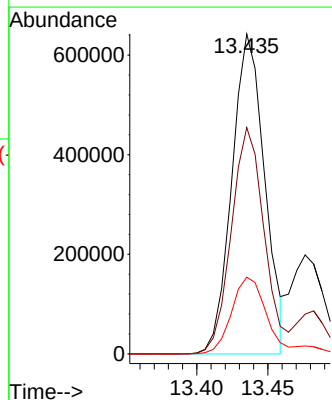
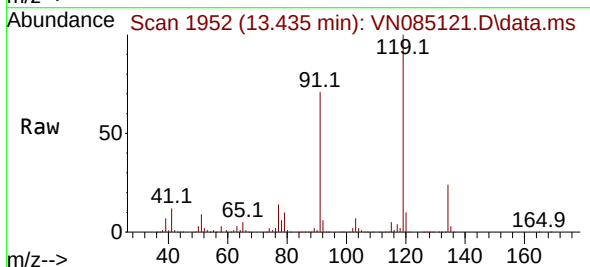
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

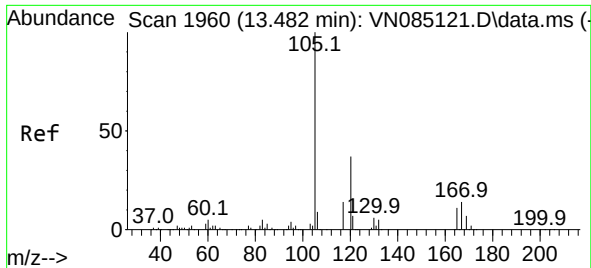
Tgt Ion: 91 Resp: 1062762
Ion Ratio Lower Upper
91 100
126 32.7 0.0 64.4



#79
tert-butylbenzene
Concen: 165.137 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 119 Resp: 1033507
Ion Ratio Lower Upper
119 100
91 71.2 0.0 139.2
134 24.9 0.0 48.0

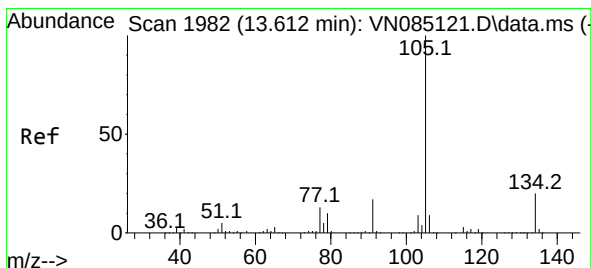
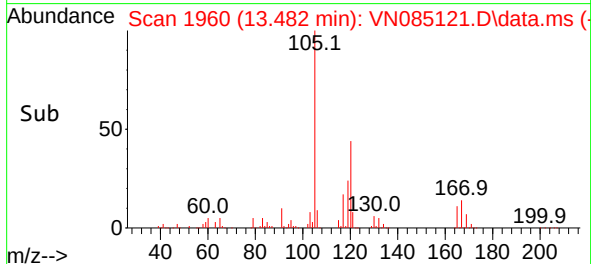
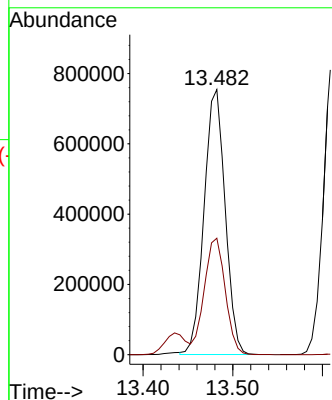
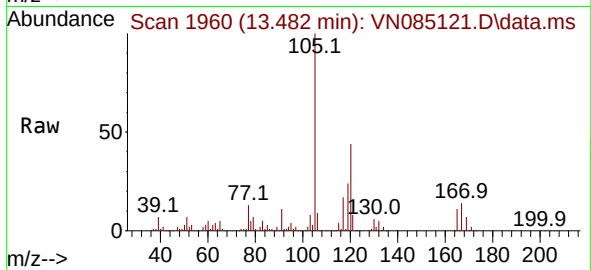




#80
1,2,4-Trimethylbenzene
Concen: 163.500 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

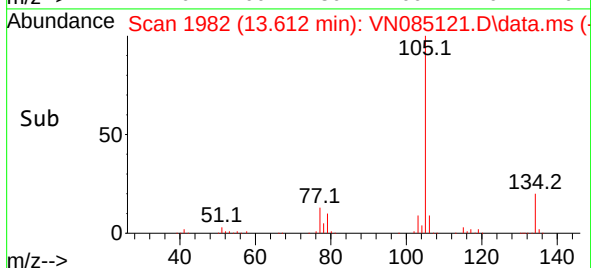
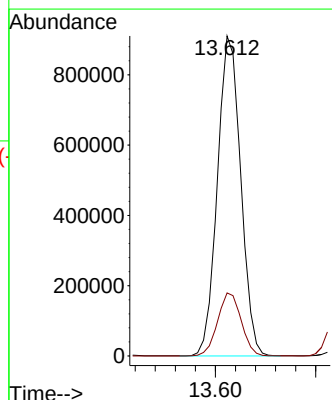
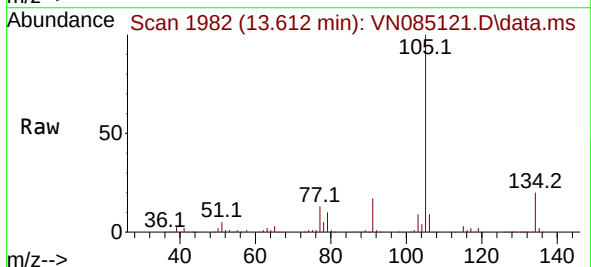
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

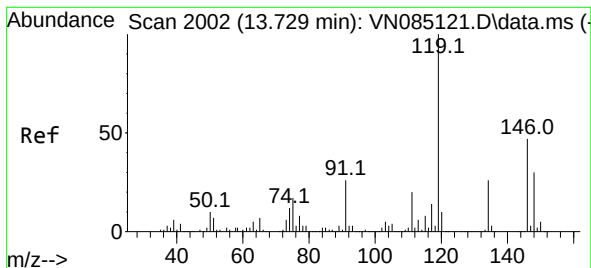
Tgt Ion:105 Resp: 1230594
Ion Ratio Lower Upper
105 100
120 43.7 0.0 87.4



#81
sec-Butylbenzene
Concen: 164.927 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:105 Resp: 1466428
Ion Ratio Lower Upper
105 100
134 20.0 0.0 38.0





#82

p-Isopropyltoluene

Concen: 169.455 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

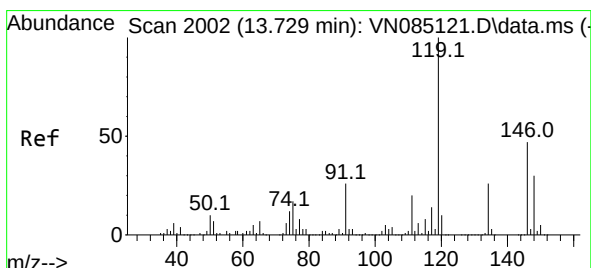
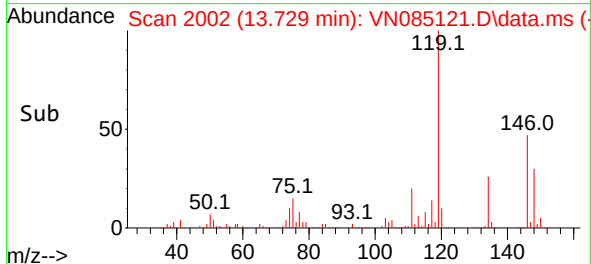
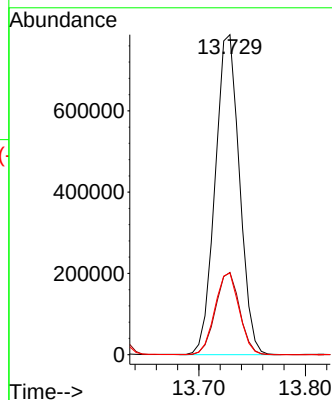
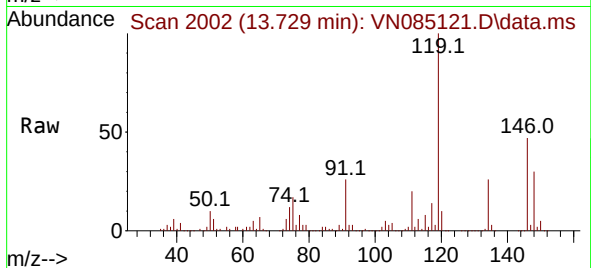
Tgt Ion:119 Resp: 1249133

Ion Ratio Lower Upper

119 100

134 25.5 0.0 51.6

91 25.5 0.0 50.4



#83

1,3-Dichlorobenzene

Concen: 153.943 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

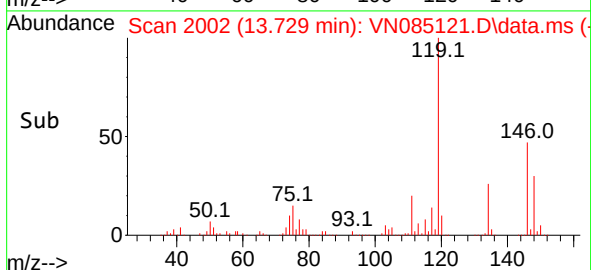
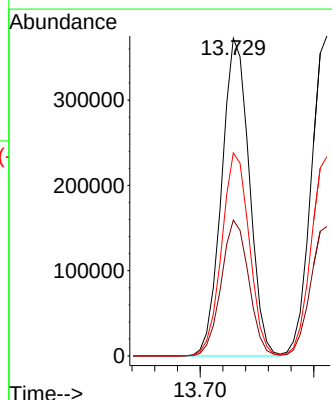
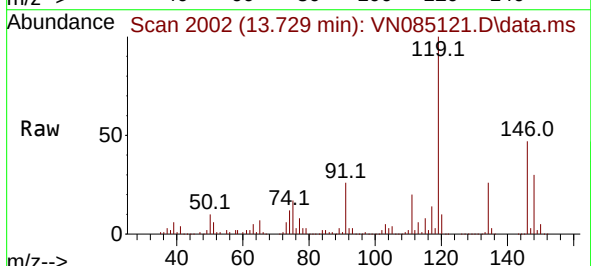
Tgt Ion:146 Resp: 629183

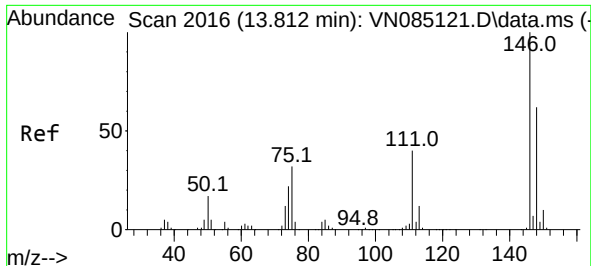
Ion Ratio Lower Upper

146 100

111 42.6 21.1 63.3

148 63.9 31.8 95.3

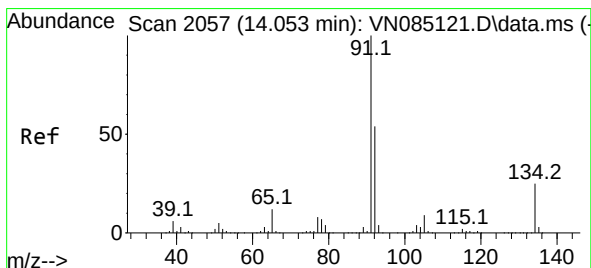
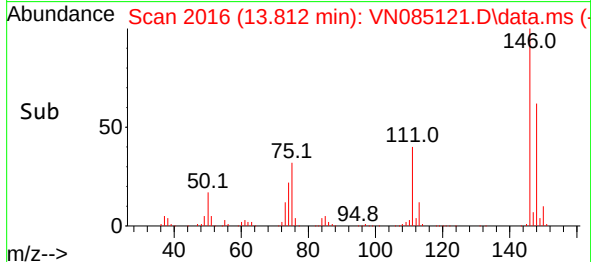
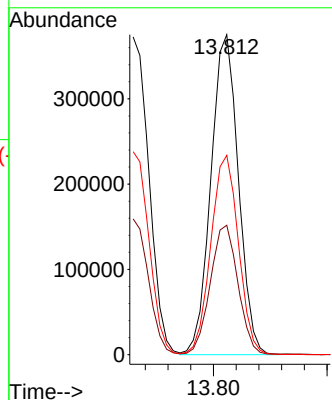
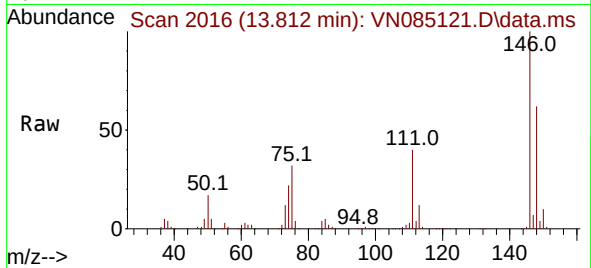




#84
1,4-Dichlorobenzene
Concen: 158.368 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

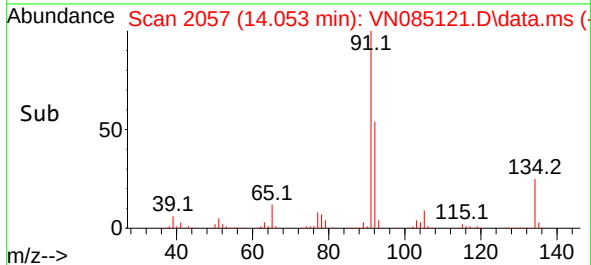
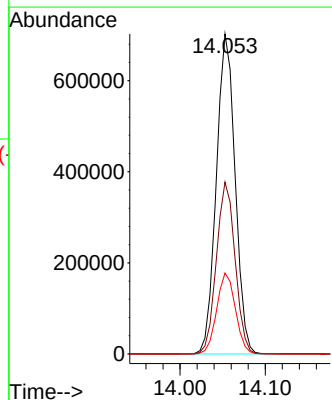
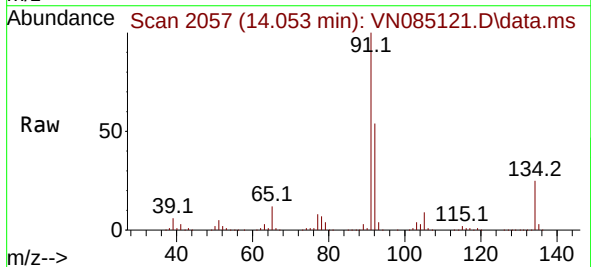
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

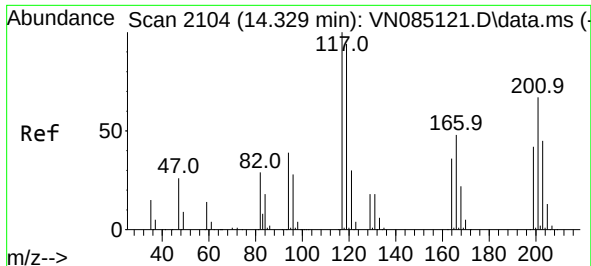
Tgt Ion:146 Resp: 630821
Ion Ratio Lower Upper
146 100
111 40.9 20.1 60.3
148 62.6 31.6 94.7



#85
n-Butylbenzene
Concen: 174.069 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion: 91 Resp: 1076317
Ion Ratio Lower Upper
91 100
92 53.4 0.0 104.0
134 25.1 0.0 49.2

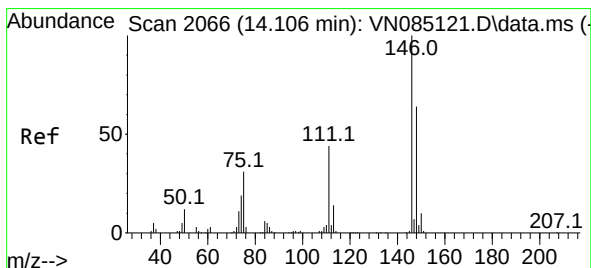
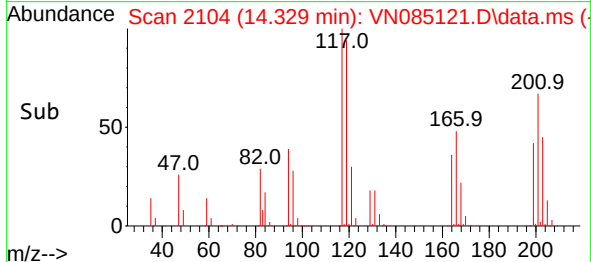
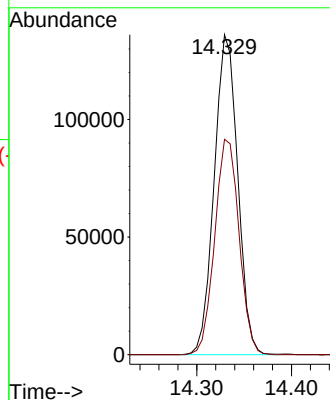
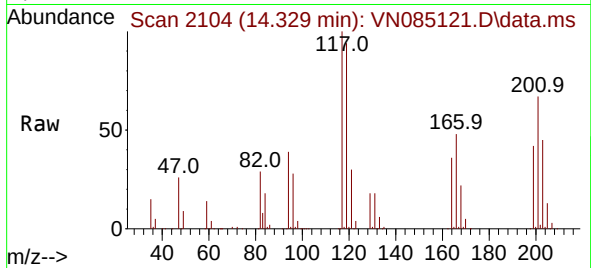




#86
Hexachloroethane
Concen: 160.002 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

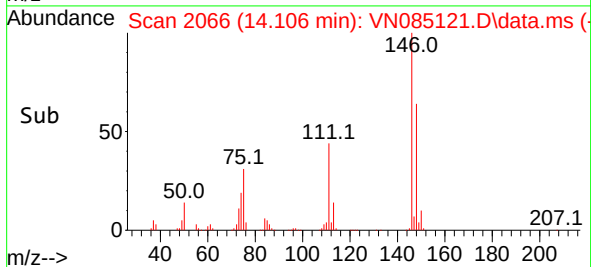
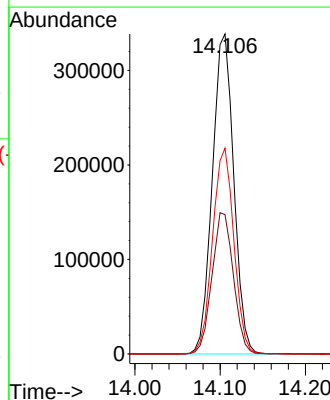
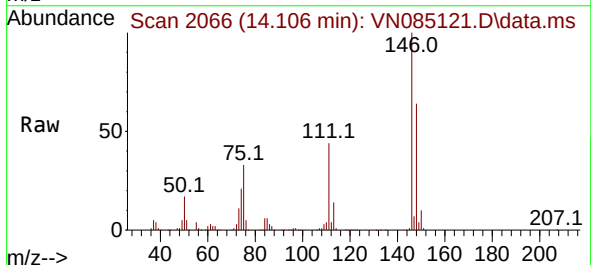
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

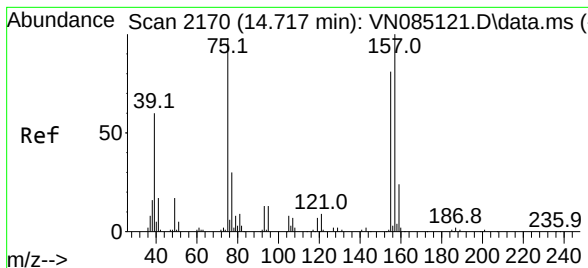
Tgt Ion:117 Resp: 234799
Ion Ratio Lower Upper
117 100
201 69.7 34.1 102.3



#87
1,2-Dichlorobenzene
Concen: 153.379 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085121.D
Acq: 06 Dec 2024 11:37

Tgt Ion:146 Resp: 591716
Ion Ratio Lower Upper
146 100
111 44.0 21.9 65.7
148 64.0 32.4 97.0

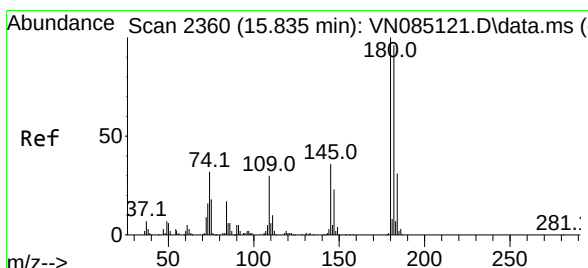
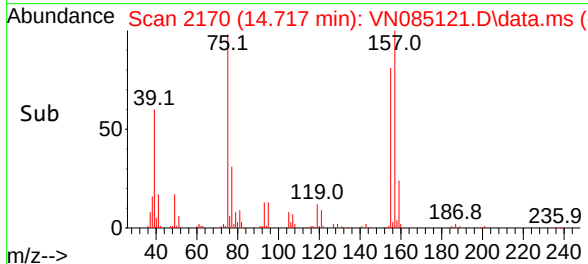
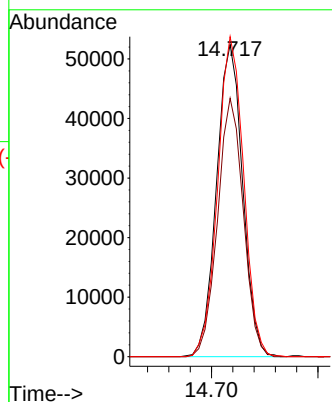
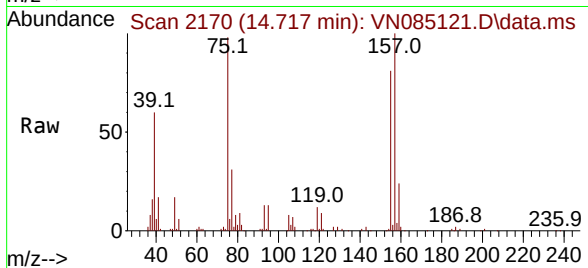




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 164.781 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

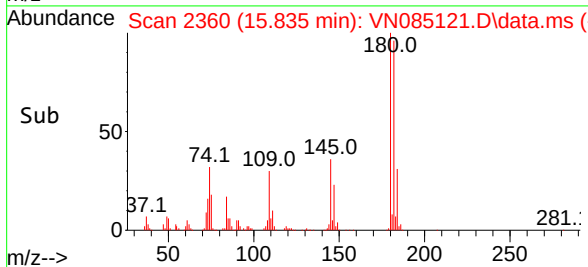
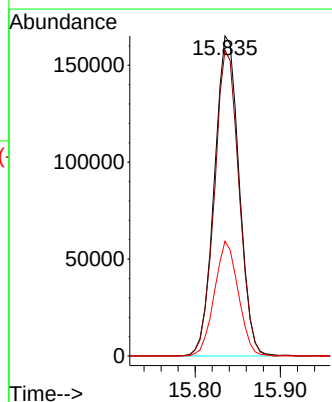
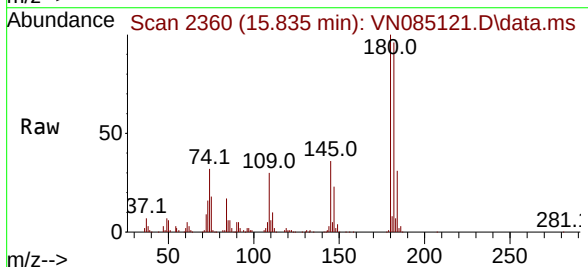
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

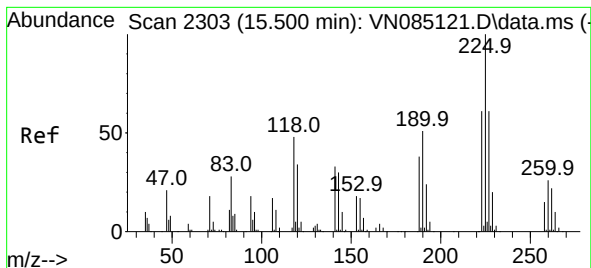
Tgt Ion: 75 Resp: 89112
 Ion Ratio Lower Upper
 75 100
 155 81.7 62.1 93.1
 157 101.9 79.3 118.9



#89
 1,2,4-Trichlorobenzene
 Concen: 175.876 ug/l
 RT: 15.835 min Scan# 2360
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Tgt Ion: 180 Resp: 332292
 Ion Ratio Lower Upper
 180 100
 182 94.7 74.0 111.0
 145 34.7 28.6 43.0





#90

Hexachlorobutadiene

Concen: 153.643 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

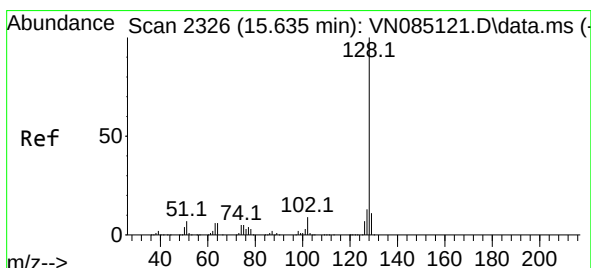
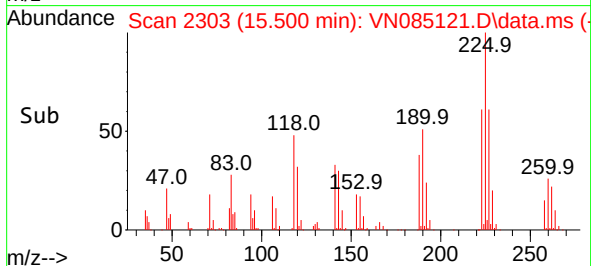
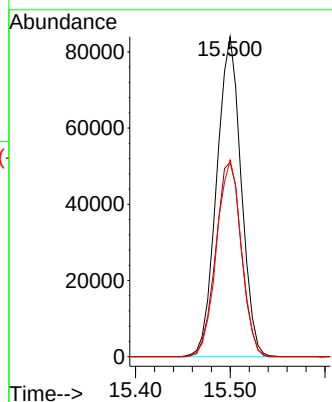
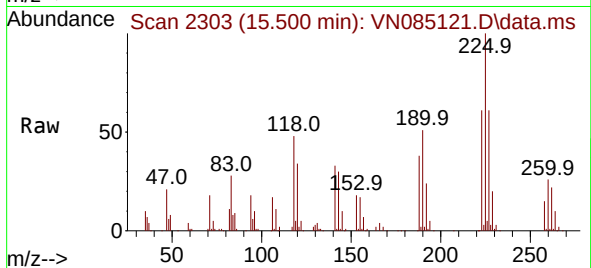
Tgt Ion:225 Resp: 150844

Ion Ratio Lower Upper

225 100

223 63.5 0.0 121.8

227 62.3 0.0 126.8



#91

Naphthalene

Concen: 190.174 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN085121.D

Acq: 06 Dec 2024 11:37

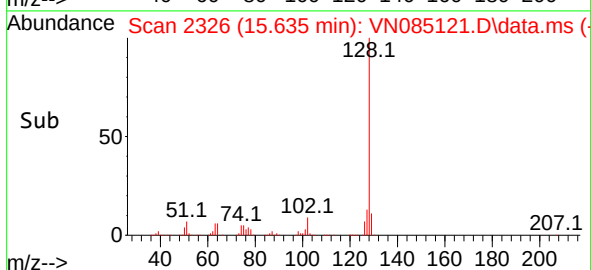
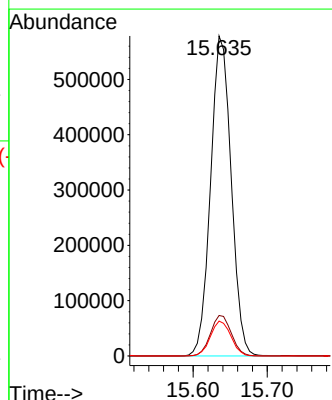
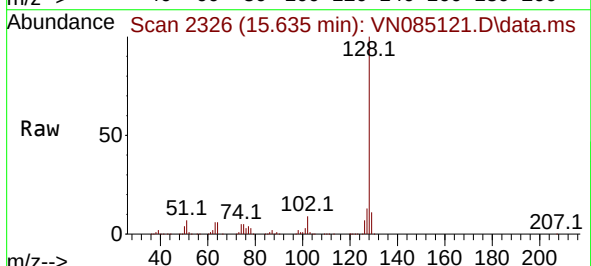
Tgt Ion:128 Resp: 1116289

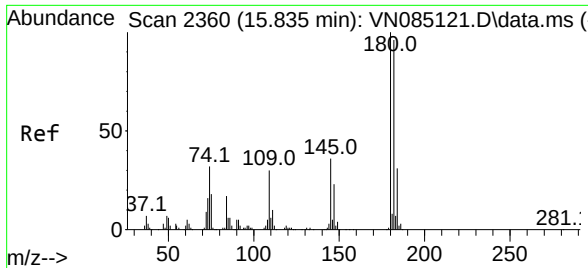
Ion Ratio Lower Upper

128 100

127 12.8 11.0 16.4

129 10.9 8.7 13.1

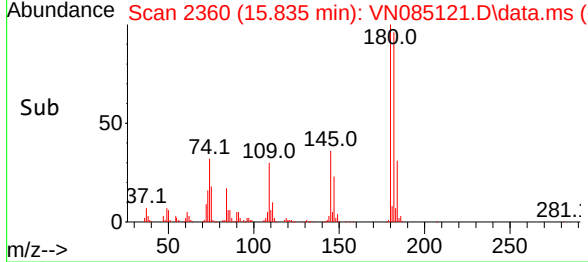
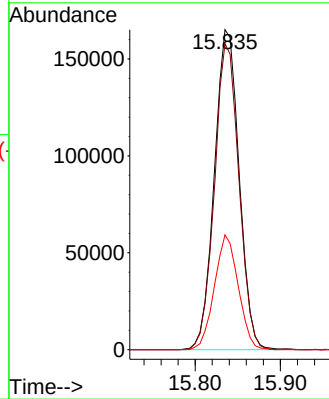
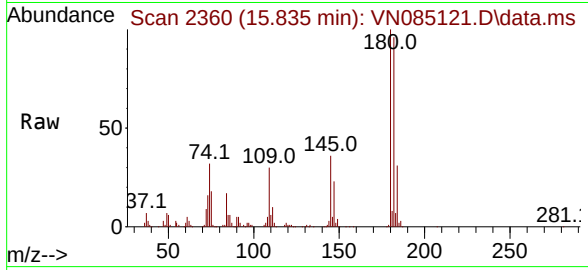




#92
 1,2,3-Trichlorobenzene
 Concen: 175.876 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN085121.D
 Acq: 06 Dec 2024 11:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion:180 Resp: 332292
 Ion Ratio Lower Upper
 180 100
 182 94.7 0.0 185.0
 145 34.7 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085123.D
 Acq On : 06 Dec 2024 12:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

Quant Time: Dec 06 23:06:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	34320	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185717	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	167596	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80315	29.493	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.300%
60) 4-Bromofluorobenzene	12.847	95	85871	30.966	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	103.233%
63) Toluene-d8	10.565	98	238389	30.323	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.067%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	60791	22.140	ug/l	99
3) Chloromethane	2.359	50	54189	22.297	ug/l	94
4) Vinyl Chloride	2.512	62	53524	21.532	ug/l	96
5) Bromomethane	2.965	94	37678	23.874	ug/l	100
6) Chloroethane	3.124	64	34096	22.326	ug/l	96
7) Trichlorofluoromethane	3.500	101	88313	21.704	ug/l	97
8) Diethyl Ether	3.959	74	28800	22.346	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	50308	22.109	ug/l	97
10) 1,1-Dichloroethene	4.342	96	45812	21.919	ug/l	98
11) Methyl Iodide	4.589	142	63446	21.887	ug/l	96
12) Methyl Acetate	5.018	43	53958	21.883	ug/l	91
13) Acrolein	4.177	56	29807	83.185	ug/l	97
14) Acrylonitrile	5.718	53	111980	109.372	ug/l	96
15) Acetone	4.424	58	29118	104.948	ug/l	97
16) Carbon Disulfide	4.712	76	137866	22.068	ug/l	97
17) Allyl chloride	5.024	41	65461	21.888	ug/l	94
18) Methylene Chloride	5.283	84	49652	20.936	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	47495	21.862	ug/l	96
20) Diisopropyl ether	6.665	45	143427	21.853	ug/l	98
21) 1,1-Dichloroethane	6.565	63	88356	21.811	ug/l #	97
22) cis-1,2-Dichloroethene	7.488	96	56787	22.742	ug/l	98
23) tert-Butyl Alcohol	5.512	59	41094	111.884	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	145319	22.254	ug/l #	76
25) Chloroform	7.965	83	91959	21.669	ug/l	96
26) Cyclohexane	8.259	56	75227	22.553	ug/l	97
29) 1,1-Dichloropropene	8.371	75	65505	21.858	ug/l	99
30) 2-Butanone	7.483	43	147216	107.048	ug/l	98
31) 2,2-Dichloropropane	7.488	77	82584	21.490	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	86299	21.275	ug/l	99
33) Carbon Tetrachloride	8.359	117	76333	20.855	ug/l	95
34) Benzene	8.606	78	199228	21.162	ug/l	94
35) Methacrylonitrile	7.771	41	34766	22.464	ug/l	97
36) 1,2-Dichloroethane	8.665	62	68920	21.505	ug/l	100
37) Trichloroethene	9.347	130	48331	21.558	ug/l	92
38) Methylcyclohexane	9.600	83	71750	22.020	ug/l	95
39) 1,2-Dichloropropane	9.618	63	47583	20.867	ug/l	94
40) Dibromomethane	9.712	93	34556	21.127	ug/l	98
41) Bromodichloromethane	9.888	83	73839	21.117	ug/l	94
42) Vinyl Acetate	6.600	43	554646	115.256	ug/l	98

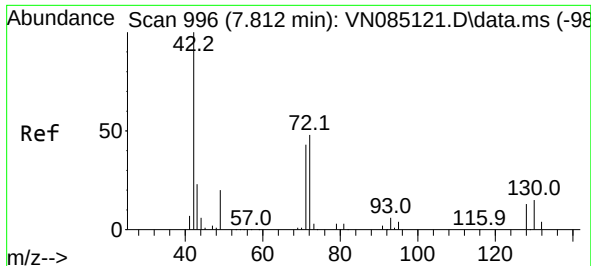
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 Data File : VN085123.D
 Acq On : 06 Dec 2024 12:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

Quant Time: Dec 06 23:06:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	62407	22.807	ug/l	93
44) Isopropyl Acetate	8.682	43	103521	21.770	ug/l	100
45) 1,4-Dioxane	9.694	88	17346	437.438	ug/l	96
46) Methyl methacrylate	9.677	41	47854	21.989	ug/l	96
47) n-amyl Acetate	12.488	43	87700	21.920	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	72633	21.161	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	79711	21.333	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	47258	21.441	ug/l	95
51) Ethyl methacrylate	10.871	69	74129	22.113	ug/l	97
52) 1,3-Dichloropropane	11.159	76	79252	21.486	ug/l	99
53) Dibromochloromethane	11.353	129	55601	20.701	ug/l	93
54) 1,2-Dibromoethane	11.465	107	47513	21.396	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	120953	77.670	ug/l	99
56) Bromoform	12.576	173	37077	20.588	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	305762	111.787	ug/l	99
59) 2-Hexanone	11.194	43	233377	112.607	ug/l	98
61) Tetrachloroethene	11.100	164	45248	22.294	ug/l	95
62) Toluene	10.629	91	214790	21.975	ug/l	99
64) Chlorobenzene	11.888	112	133437	22.112	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	48941	21.725	ug/l	98
66) Ethyl Benzene	11.965	91	231289	22.300	ug/l	96
67) m/p-Xylenes	12.070	106	182990	45.872	ug/l	99
68) o-Xylene	12.394	106	84266	22.492	ug/l	99
69) Styrene	12.412	104	145082	22.822	ug/l	99
70) Isopropylbenzene	12.694	105	217804	22.540	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	65321	22.210	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	85676	29.489	ug/l	75
73) Bromobenzene	12.976	156	53832	22.241	ug/l	99
74) n-propylbenzene	13.035	91	261027	22.470	ug/l	99
75) 2-Chlorotoluene	13.123	91	161221	22.446	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	189105	22.843	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22735	21.535	ug/l	99
78) 4-Chlorotoluene	13.217	91	163711	22.456	ug/l	100
79) tert-butylbenzene	13.435	119	152793	22.471	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	188016	22.992	ug/l	100
81) sec-Butylbenzene	13.612	105	221463	22.925	ug/l	99
82) p-Isopropyltoluene	13.729	119	181815	22.702	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	96640	21.763	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	98028	22.651	ug/l	99
85) n-Butylbenzene	14.053	91	148587	22.118	ug/l	98
86) Hexachloroethane	14.329	117	34505	21.642	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	92278	22.016	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12928	22.003	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	47265	23.026	ug/l	97
90) Hexachlorobutadiene	15.500	225	24662	23.121	ug/l	98
91) Naphthalene	15.641	128	145950	22.886	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	47265	23.026	ug/l	97

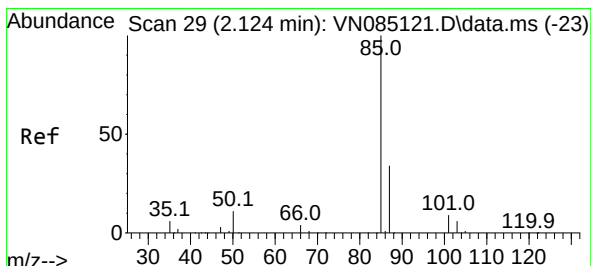
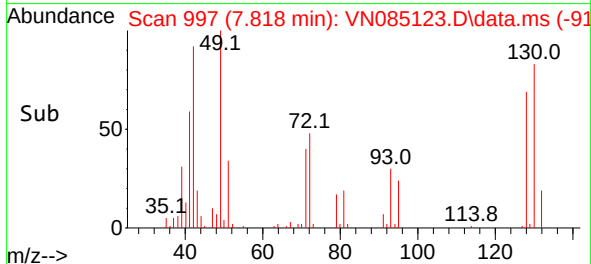
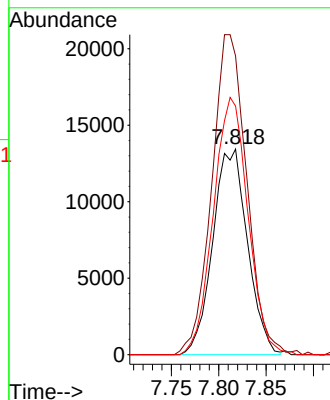
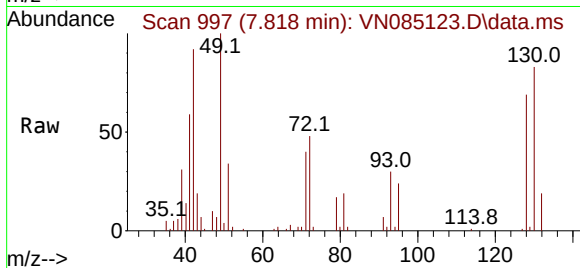
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

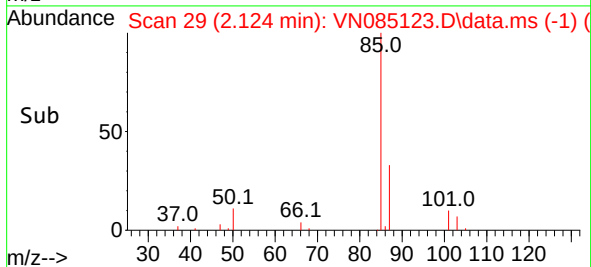
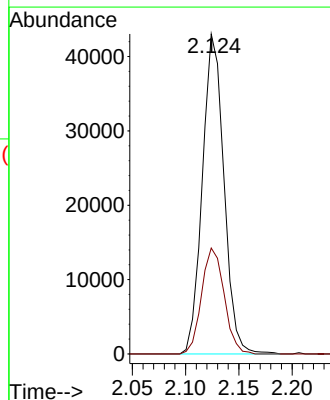
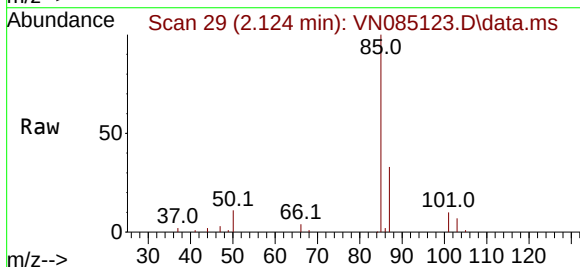
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MSVOA_N
ClientSampleId :
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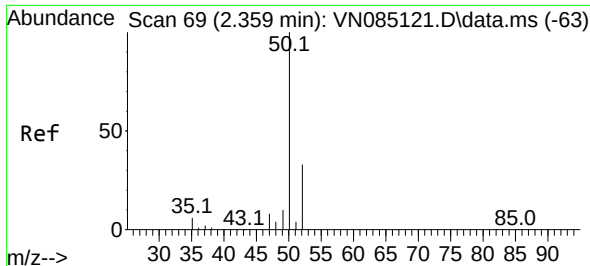
Tgt Ion:128 Resp: 34320
Ion Ratio Lower Upper
128 100
49 156.1 0.0 394.5
130 124.9 0.0 316.5



#2
Dichlorodifluoromethane
Concen: 22.140 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 85 Resp: 60791
Ion Ratio Lower Upper
85 100
87 33.1 16.8 50.3

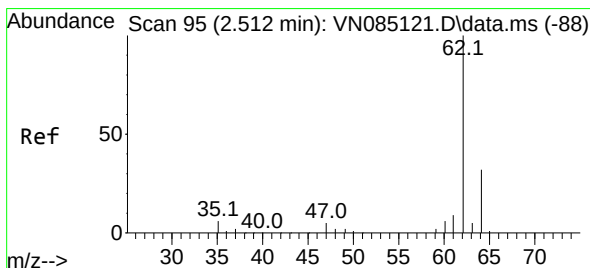
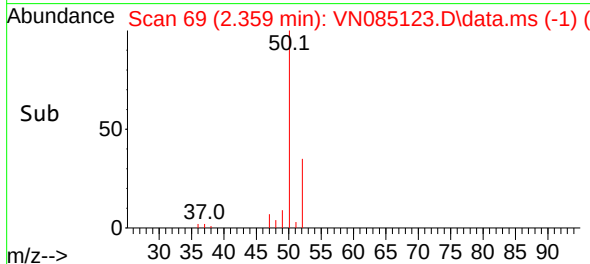
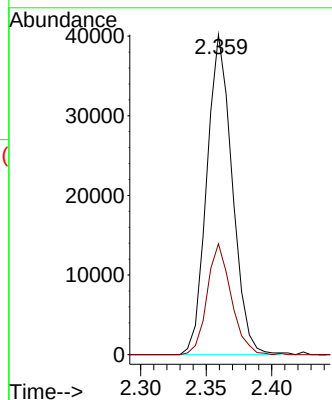
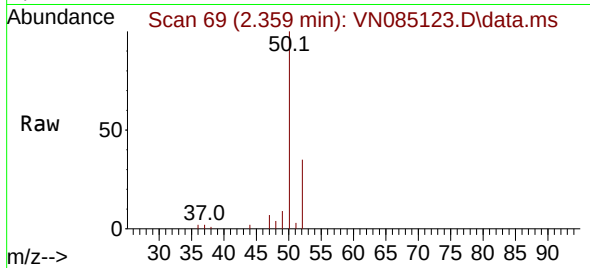




#3
Chloromethane
Concen: 22.297 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

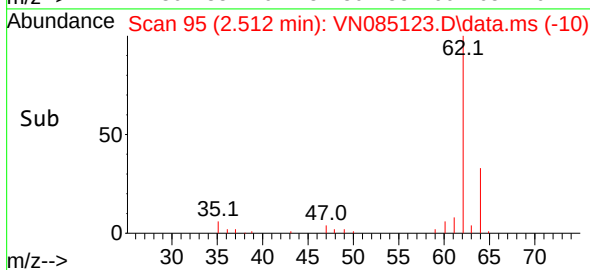
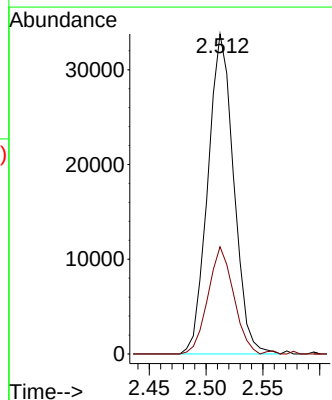
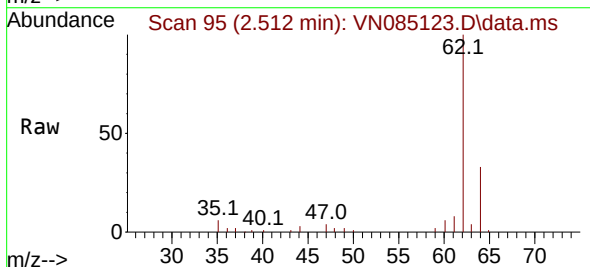
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

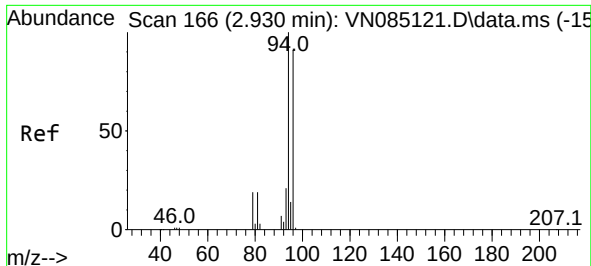
Tgt Ion: 50 Resp: 54189
Ion Ratio Lower Upper
50 100
52 34.7 25.0 37.4



#4
Vinyl Chloride
Concen: 21.532 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 62 Resp: 53524
Ion Ratio Lower Upper
62 100
64 33.5 24.9 37.3

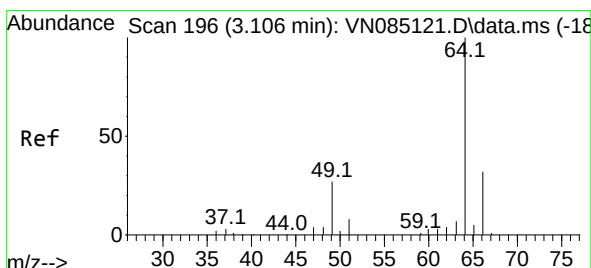
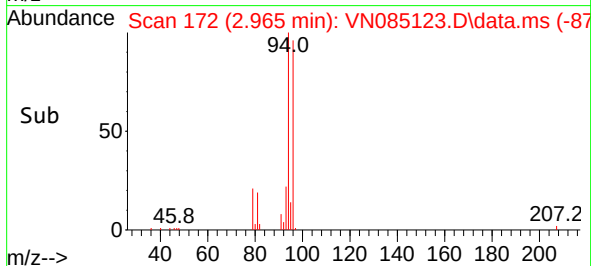
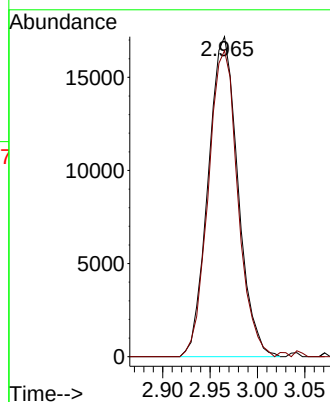
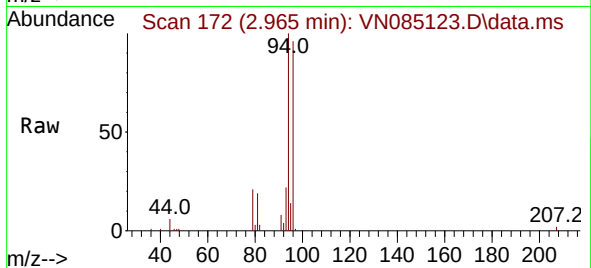




#5
Bromomethane
Concen: 23.874 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

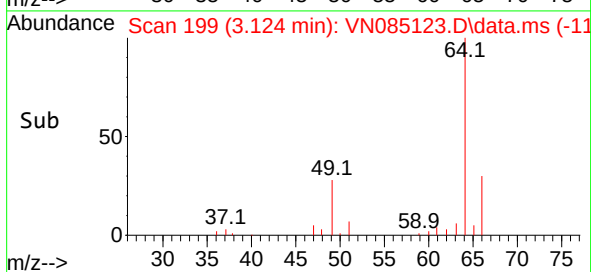
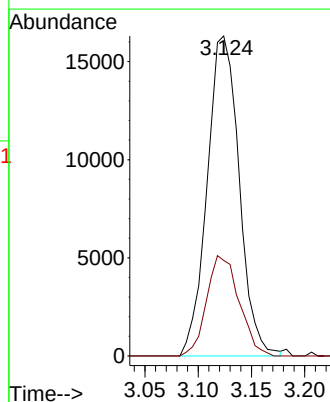
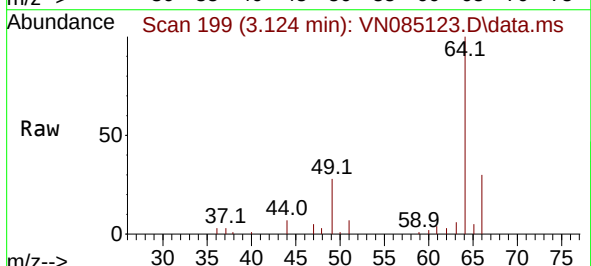
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

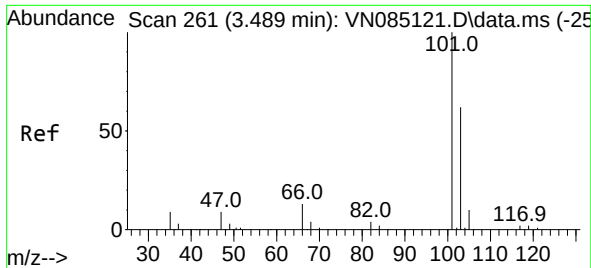
Tgt Ion: 94 Resp: 37678
Ion Ratio Lower Upper
94 100
96 95.7 76.2 114.4



#6
Chloroethane
Concen: 22.326 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 64 Resp: 34096
Ion Ratio Lower Upper
64 100
66 29.9 25.5 38.3

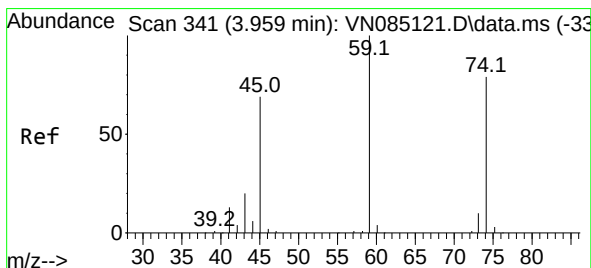
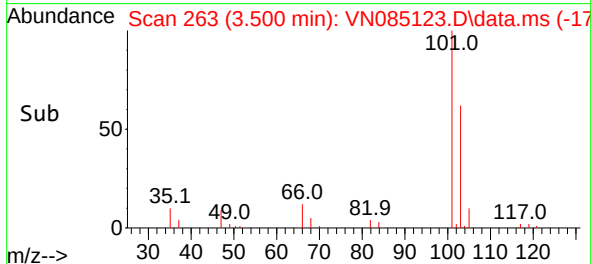
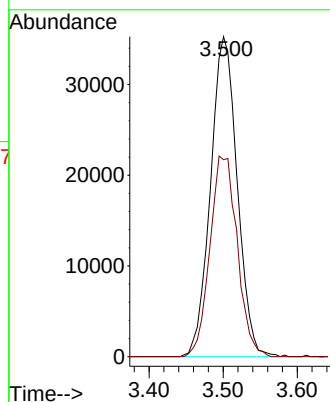
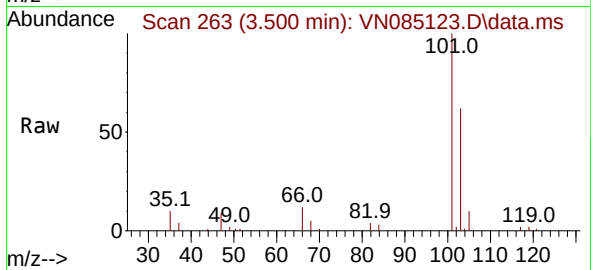




#7
 Trichlorofluoromethane
 Concen: 21.704 ug/l
 RT: 3.500 min Scan# 261
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

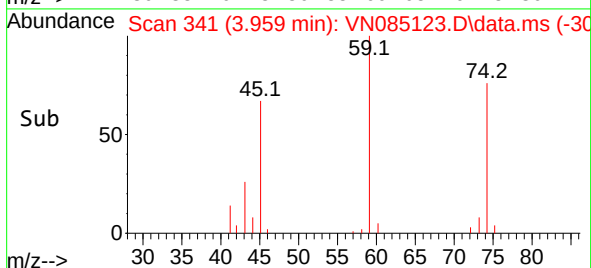
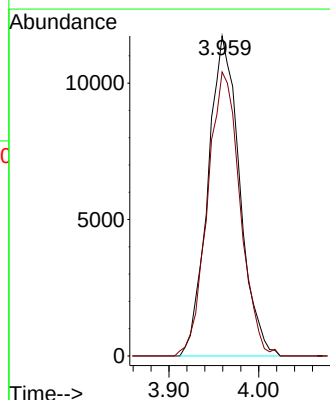
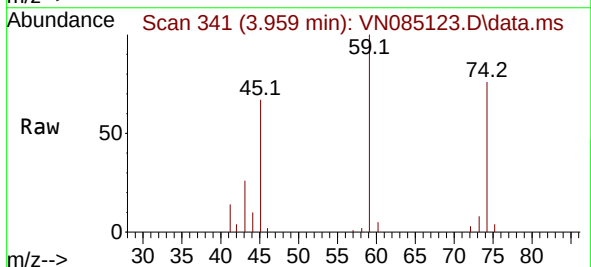
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

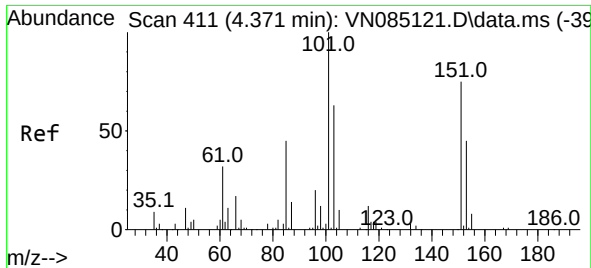
Tgt Ion:101 Resp: 88313
 Ion Ratio Lower Upper
 101 100
 103 61.6 51.3 76.9



#8
 Diethyl Ether
 Concen: 22.346 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

Tgt Ion: 74 Resp: 28800
 Ion Ratio Lower Upper
 74 100
 45 90.7 18.6 167.8

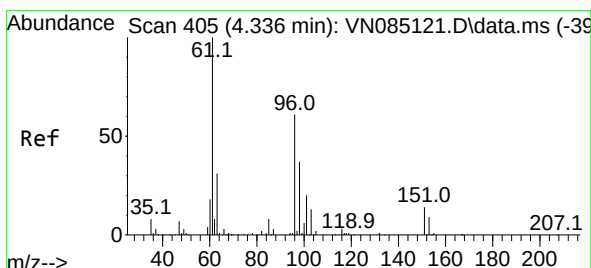
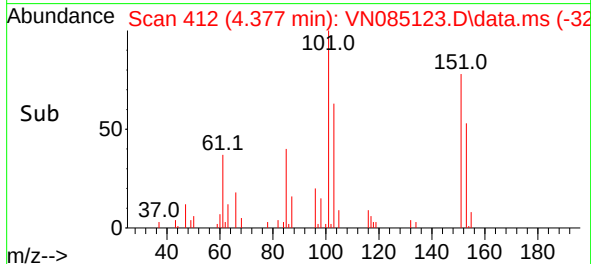
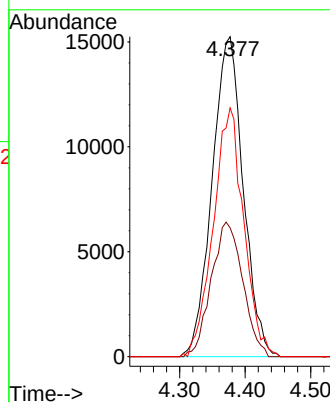
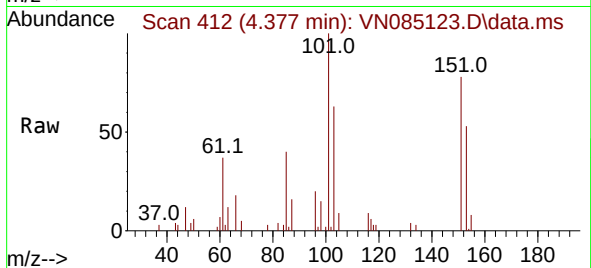




#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.109 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

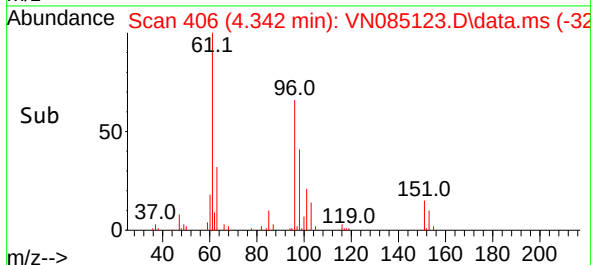
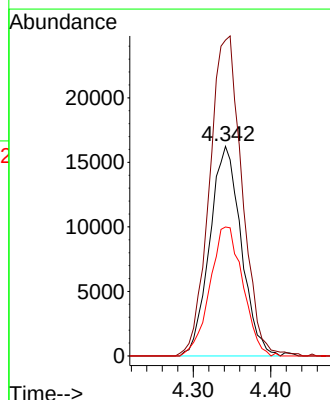
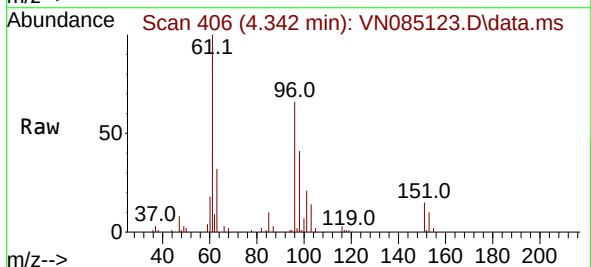
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

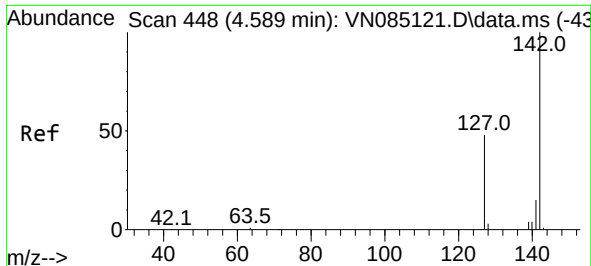
Tgt Ion:101 Resp: 50308
Ion Ratio Lower Upper
101 100
85 42.5 0.0 88.6
151 75.8 0.0 155.8



#10
1,1-Dichloroethene
Concen: 21.919 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

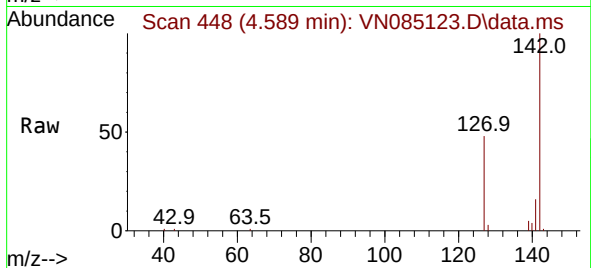
Tgt Ion: 96 Resp: 45812
Ion Ratio Lower Upper
96 100
61 149.4 123.0 184.4
98 61.5 49.1 73.7



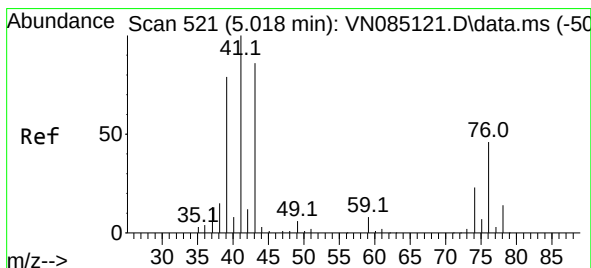
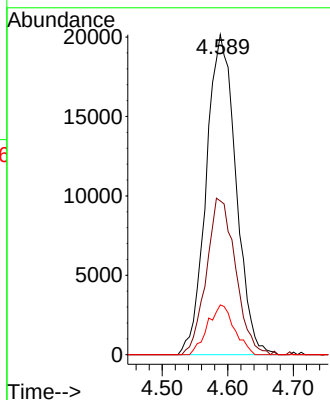
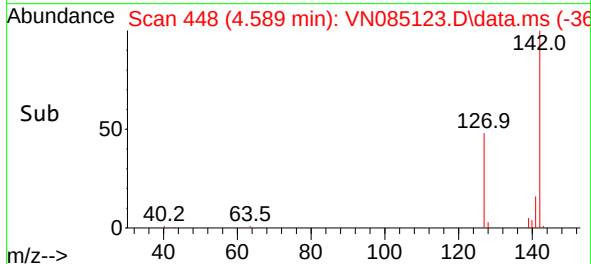


#11
Methyl Iodide
Concen: 21.887 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICNVN120624

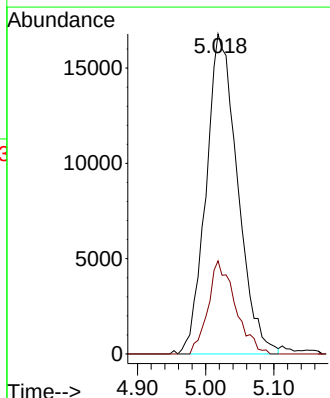
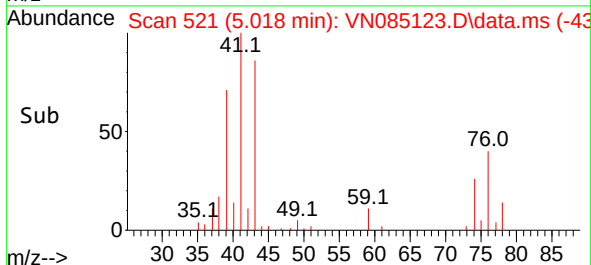
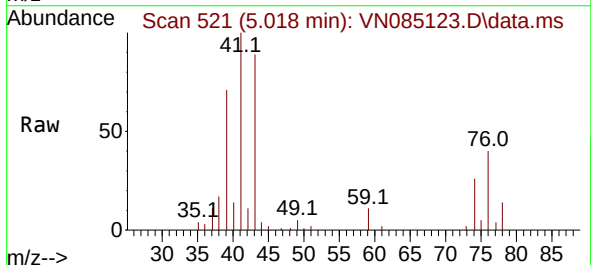


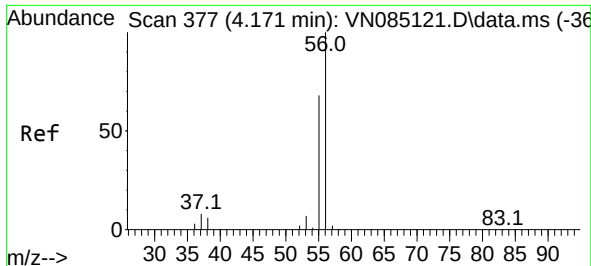
Tgt Ion:142 Resp: 63446
Ion Ratio Lower Upper
142 100
127 48.1 22.5 67.5
141 15.5 8.3 24.9



#12
Methyl Acetate
Concen: 21.883 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 43 Resp: 53958
Ion Ratio Lower Upper
43 100
74 29.3 19.8 29.6





#13

Acrolein

Concen: 83.185 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

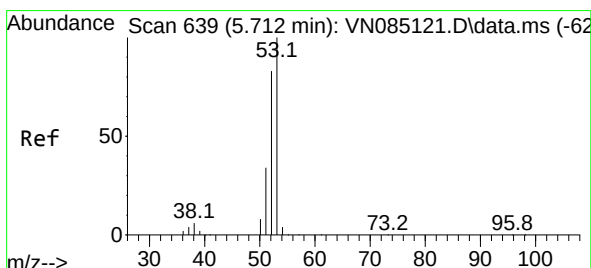
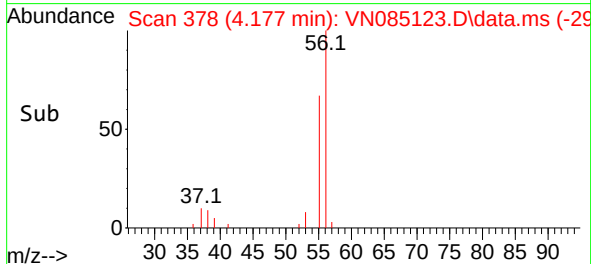
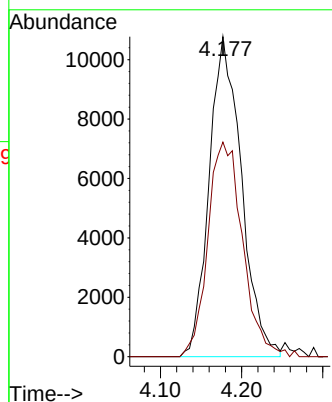
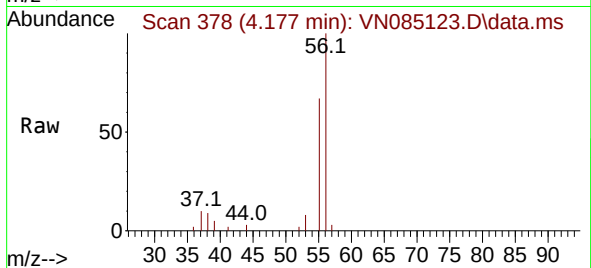
ICVVN120624

Tgt Ion: 56 Resp: 29807

Ion Ratio Lower Upper

56 100

55 71.6 59.4 89.0



#14

Acrylonitrile

Concen: 109.372 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

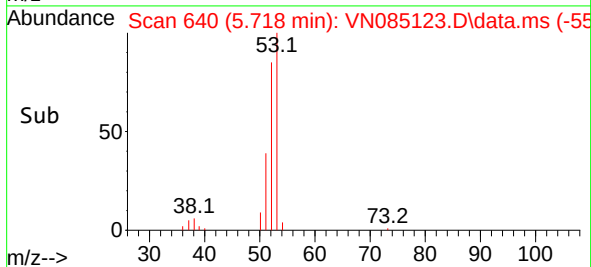
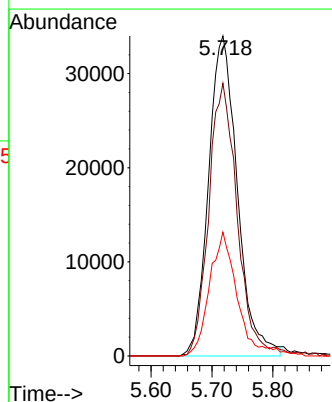
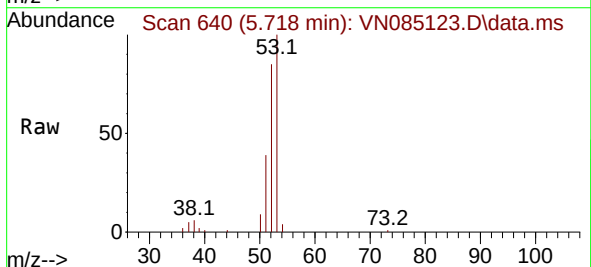
Tgt Ion: 53 Resp: 111980

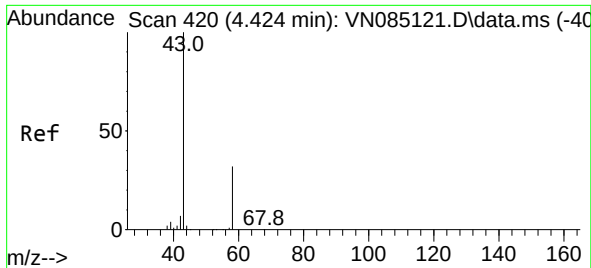
Ion Ratio Lower Upper

53 100

52 82.8 42.9 128.5

51 37.5 17.2 51.5





#15

Acetone

Concen: 104.948 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

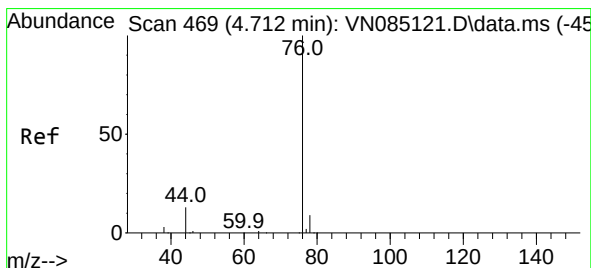
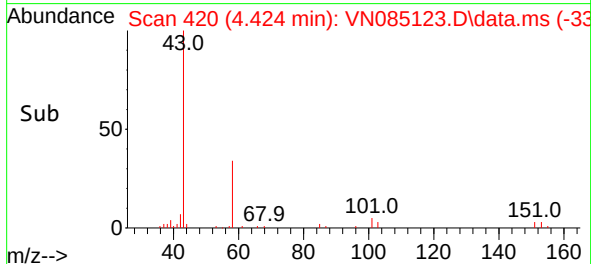
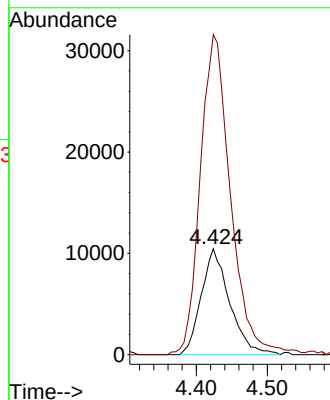
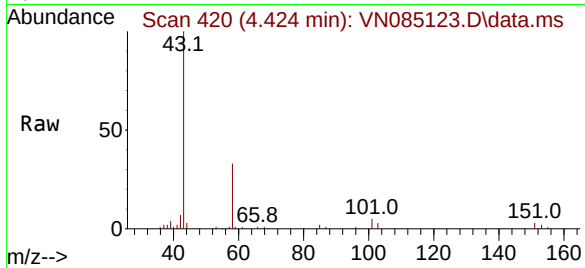
ICVVN120624

Tgt Ion: 58 Resp: 29118

Ion Ratio Lower Upper

58 100

43 296.9 242.3 363.5



#16

Carbon Disulfide

Concen: 22.068 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085123.D

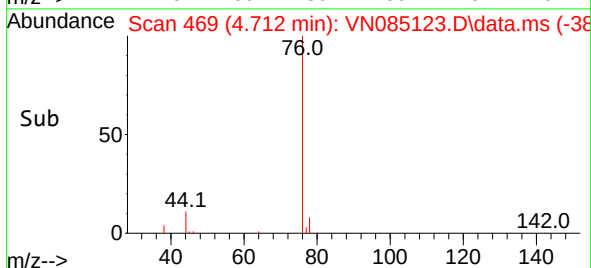
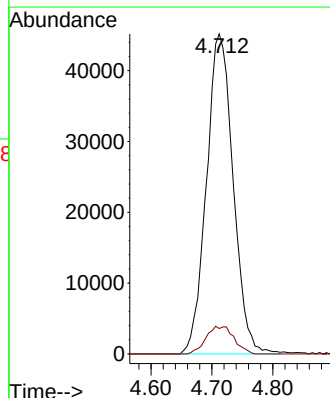
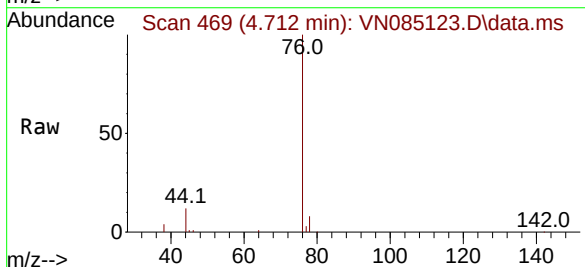
Acq: 06 Dec 2024 12:28

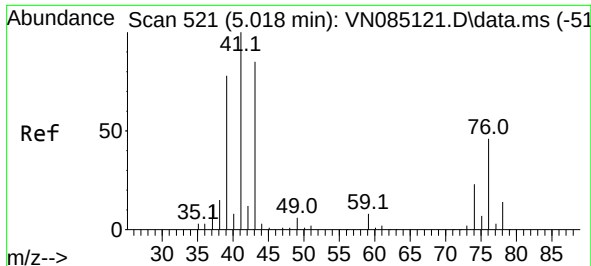
Tgt Ion: 76 Resp: 137866

Ion Ratio Lower Upper

76 100

78 7.9 7.1 10.7





#17

Allyl chloride

Concen: 21.888 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

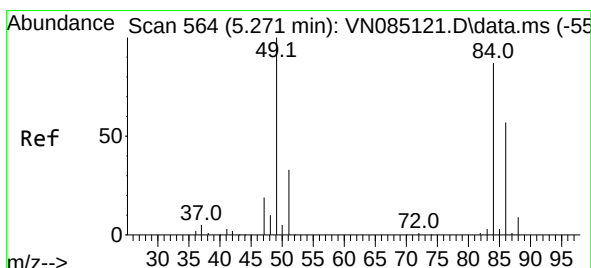
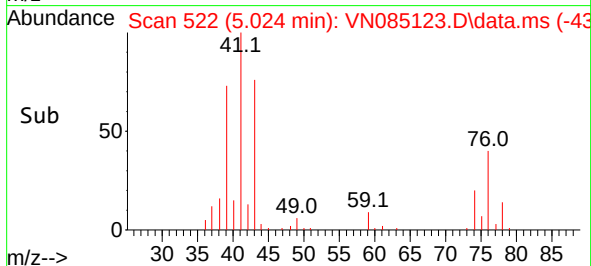
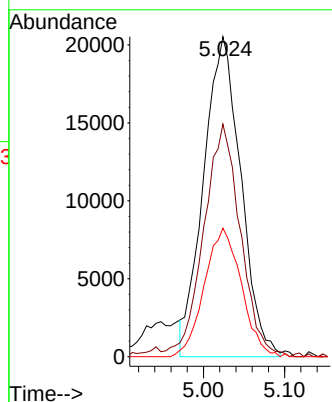
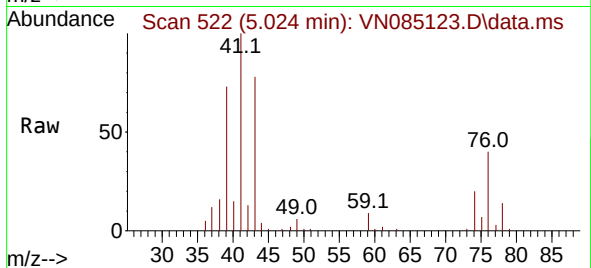
Tgt Ion: 41 Resp: 65461

Ion Ratio Lower Upper

41 100

39 71.9 32.0 96.2

76 40.6 20.2 60.5



#18

Methylene Chloride

Concen: 20.936 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.012 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Tgt Ion: 84 Resp: 49652

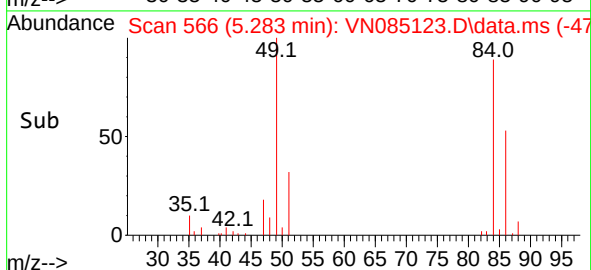
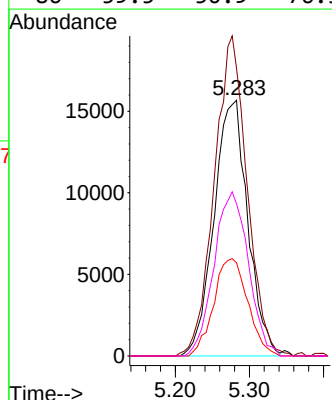
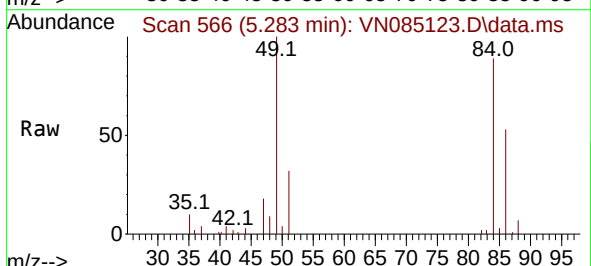
Ion Ratio Lower Upper

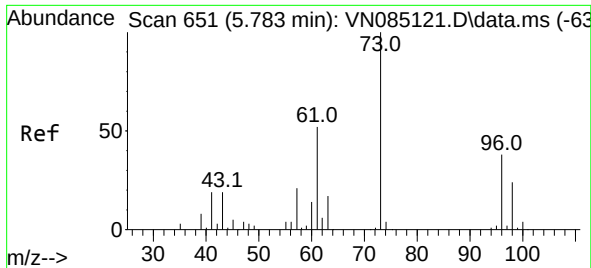
84 100

49 111.4 95.1 142.7

51 36.4 27.4 41.0

86 59.5 50.9 76.3

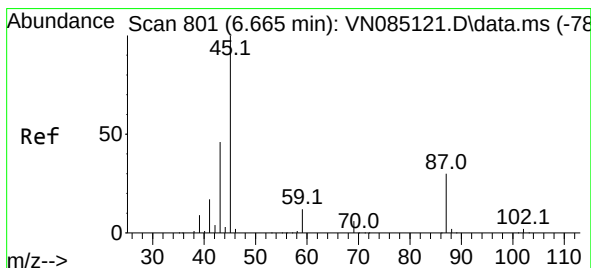
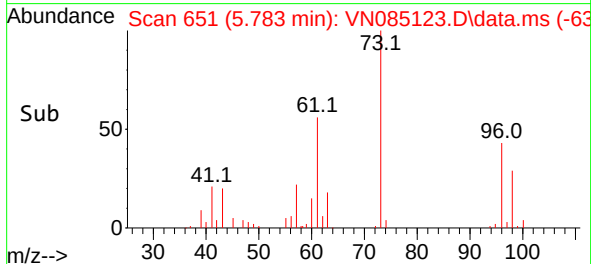
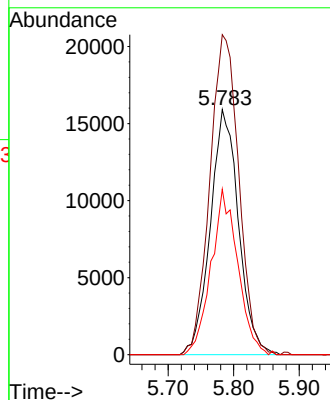
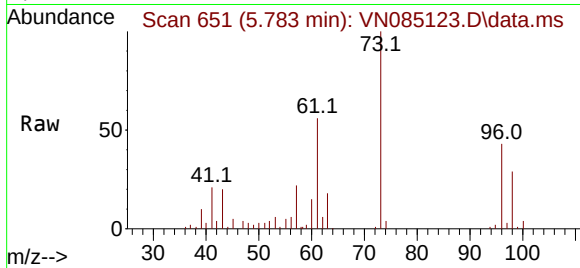




#19
trans-1,2-Dichloroethene
Concen: 21.862 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

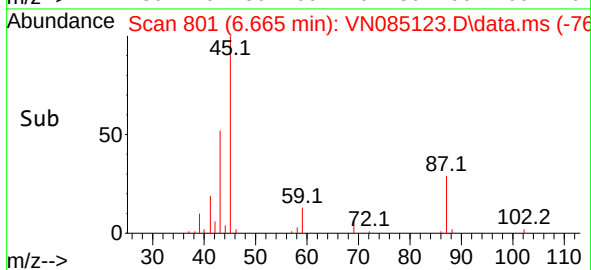
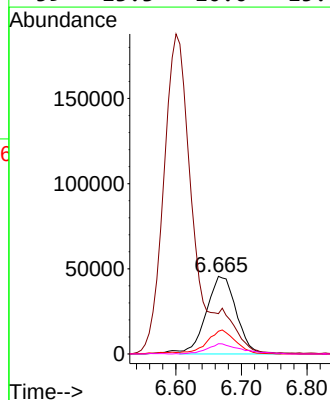
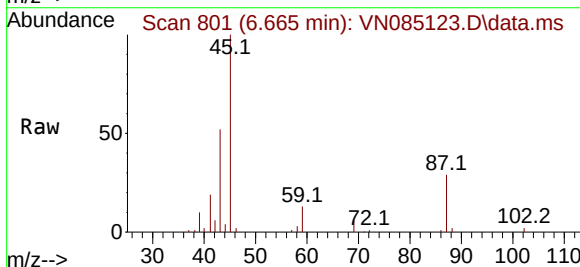
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

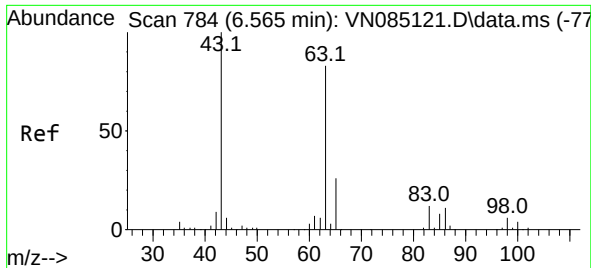
Tgt Ion: 96 Resp: 47495
Ion Ratio Lower Upper
96 100
61 130.6 100.4 150.6
98 67.5 52.6 79.0



#20
Diisopropyl ether
Concen: 21.853 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 45 Resp: 143427
Ion Ratio Lower Upper
45 100
43 50.6 41.9 62.9
87 29.5 24.1 36.1
59 13.3 10.0 15.0

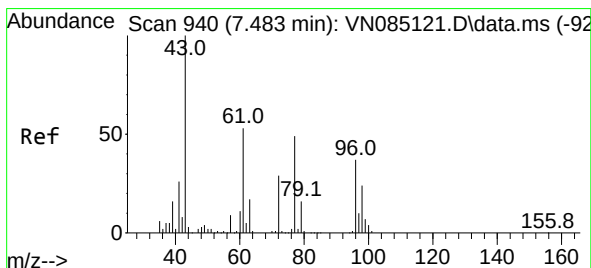
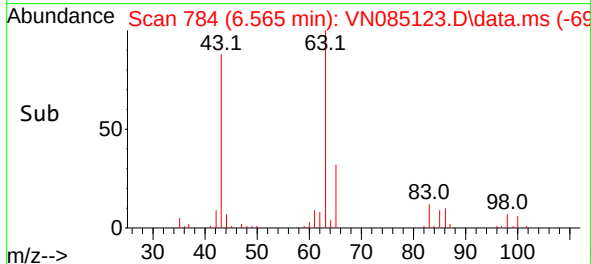
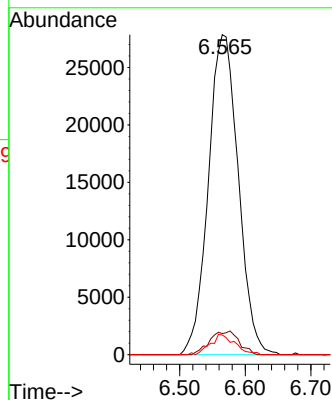
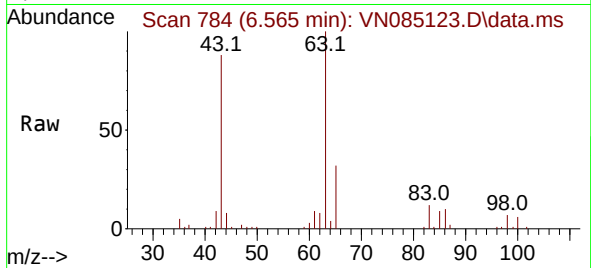




#21
1,1-Dichloroethane
Concen: 21.811 ug/l
RT: 6.565 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

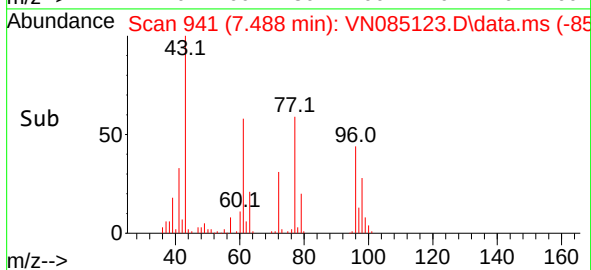
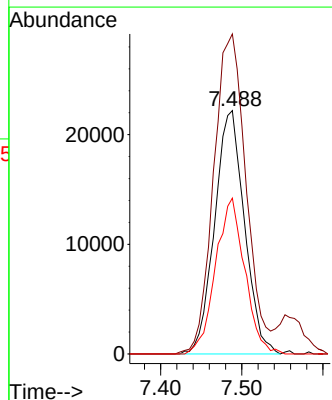
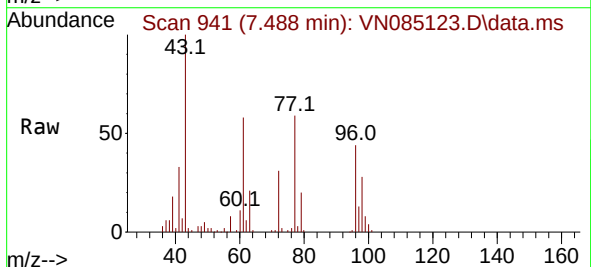
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

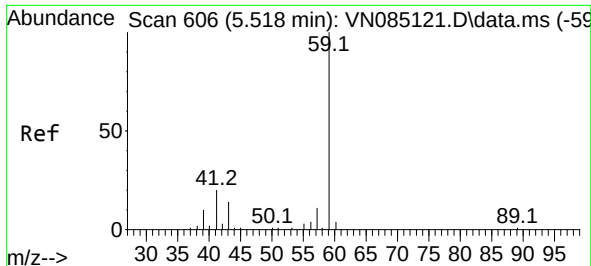
Tgt Ion: 63 Resp: 88356
Ion Ratio Lower Upper
63 100
98 6.6 3.5 10.4
100 6.1 1.6 4.8#



#22
cis-1,2-Dichloroethene
Concen: 22.742 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 96 Resp: 56787
Ion Ratio Lower Upper
96 100
61 142.2 115.9 173.9
98 62.3 51.8 77.8

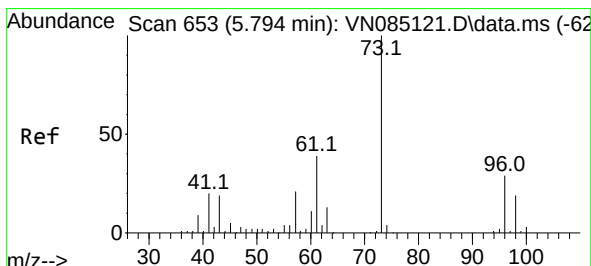
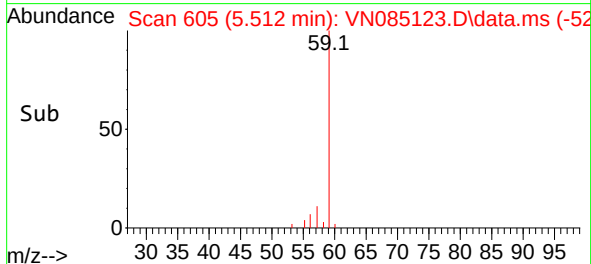
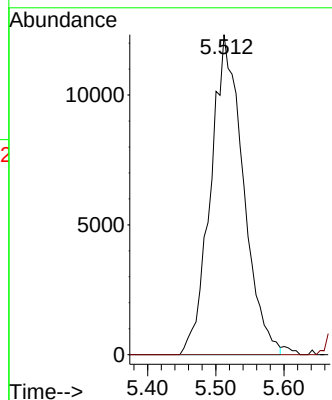
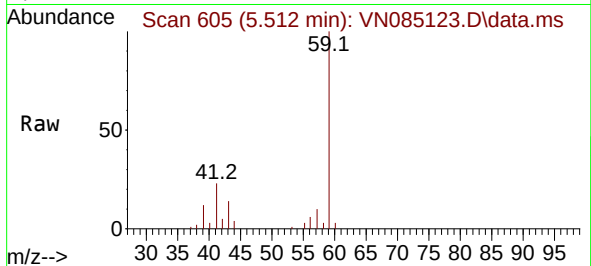




#23
tert-Butyl Alcohol
Concen: 111.884 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

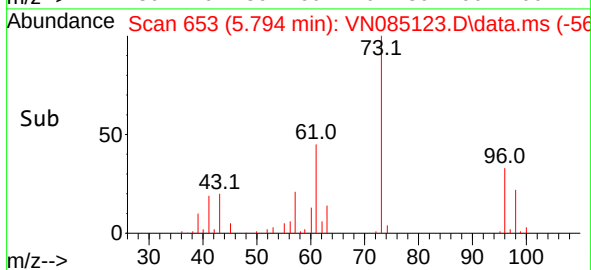
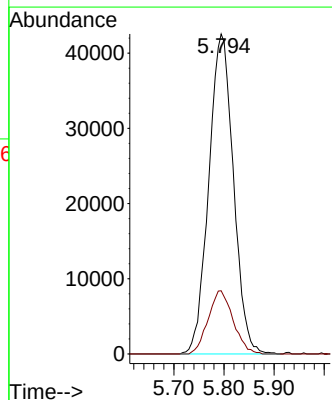
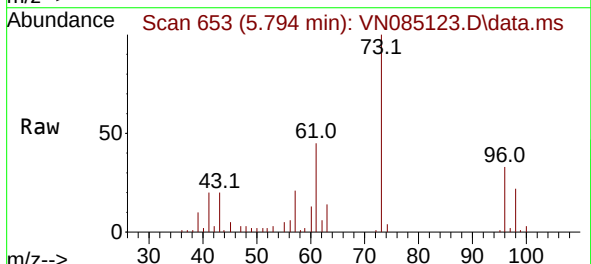
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

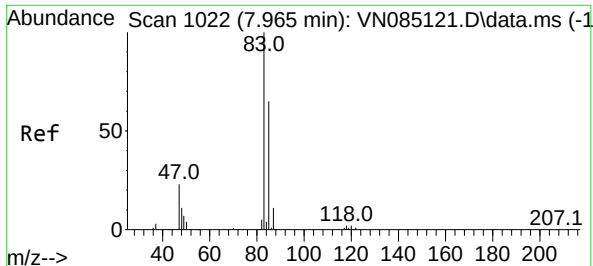
Tgt Ion: 59 Resp: 41094
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 22.254 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 73 Resp: 145319
Ion Ratio Lower Upper
73 100
43 20.0 8.7 13.1#

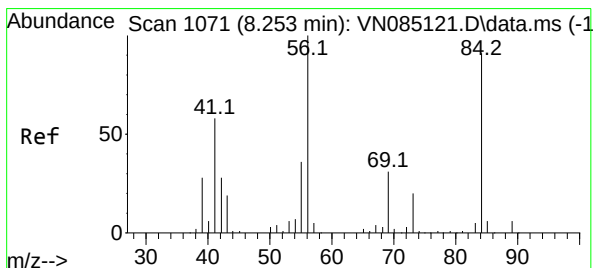
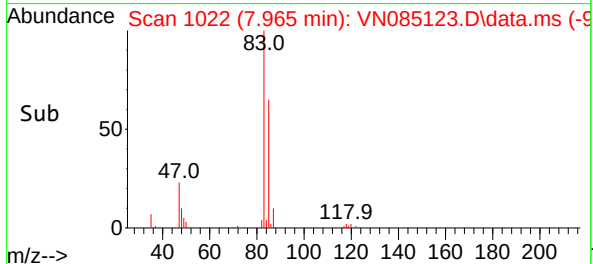
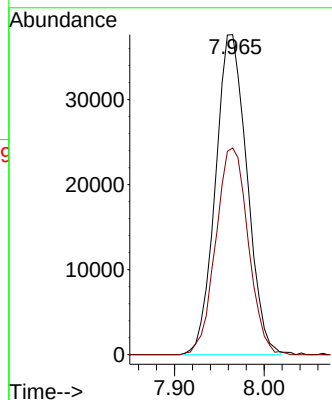
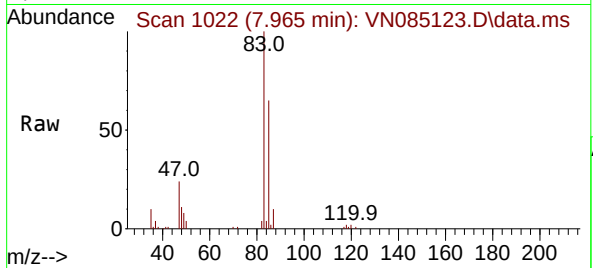




#25
Chloroform
Concen: 21.669 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

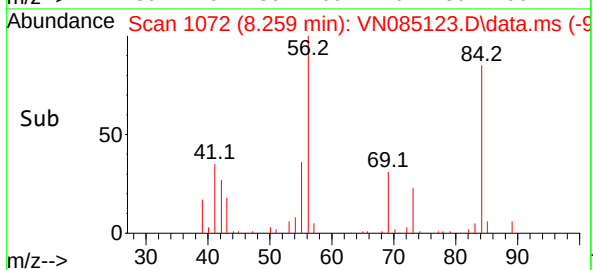
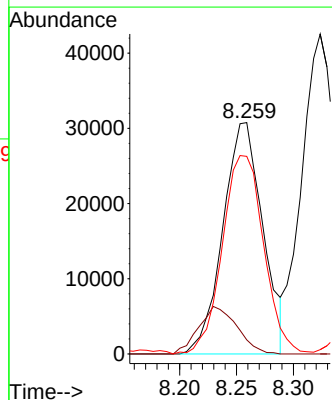
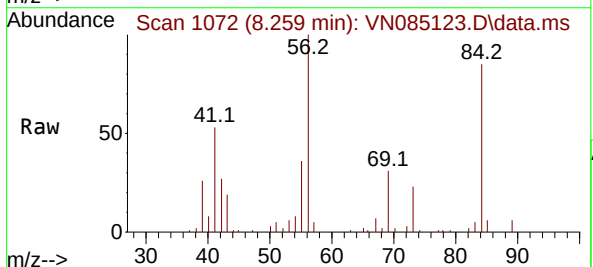
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

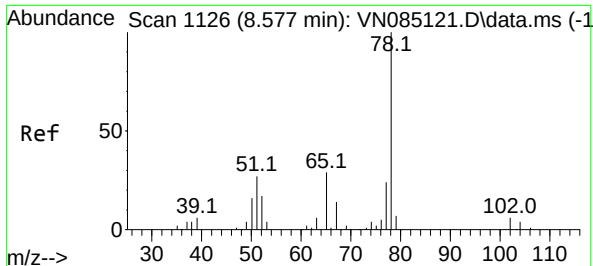
Tgt Ion: 83 Resp: 91959
Ion Ratio Lower Upper
83 100
85 64.6 49.4 74.0



#26
Cyclohexane
Concen: 22.553 ug/l
RT: 8.259 min Scan# 1072
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 56 Resp: 75227
Ion Ratio Lower Upper
56 100
89 19.7 19.5 29.3
84 89.0 70.6 105.8

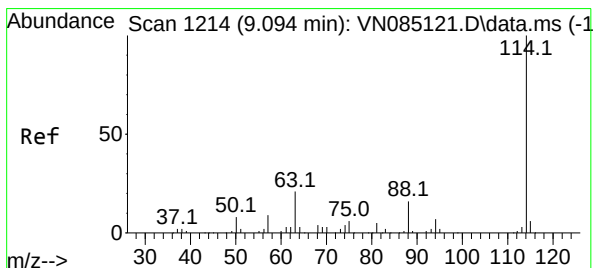
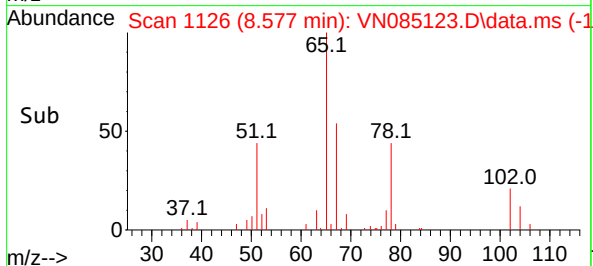
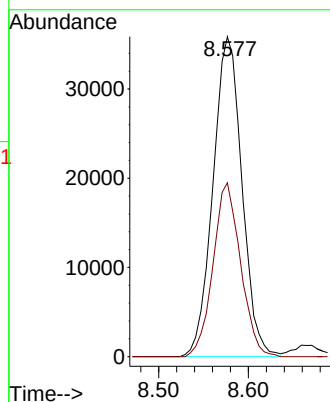
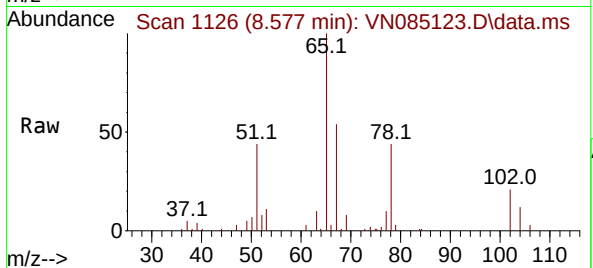




#27
 1,2-Dichloroethane-d4
 Concen: 29.493 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

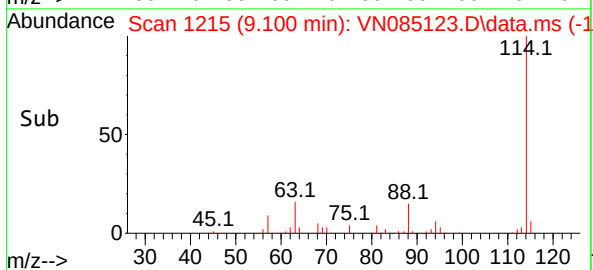
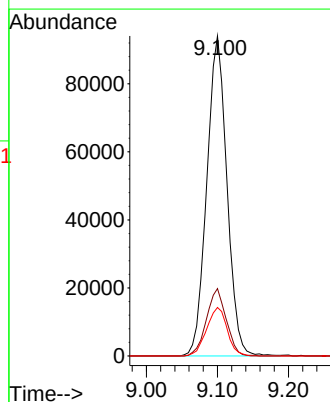
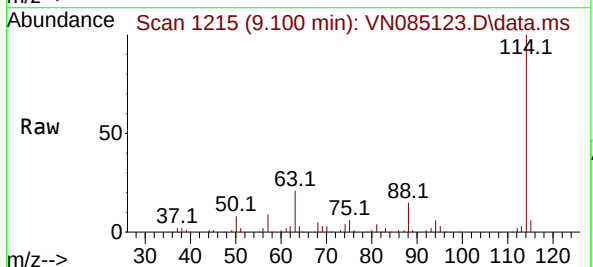
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN120624

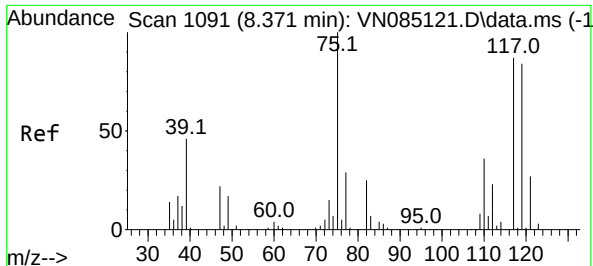
Tgt Ion: 65 Resp: 80315
 Ion Ratio Lower Upper
 65 100
 67 51.7 39.9 59.9



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN085123.D
 Acq: 06 Dec 2024 12:28

Tgt Ion: 114 Resp: 185717
 Ion Ratio Lower Upper
 114 100
 63 20.5 16.2 24.2
 88 15.5 12.5 18.7

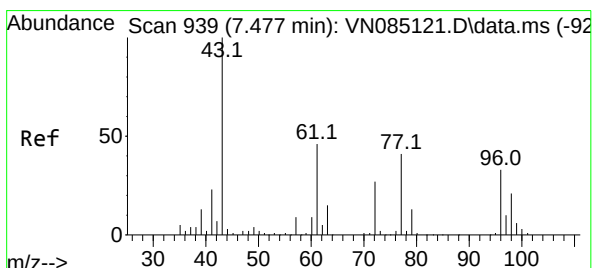
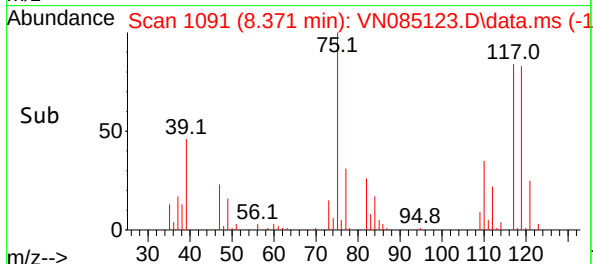
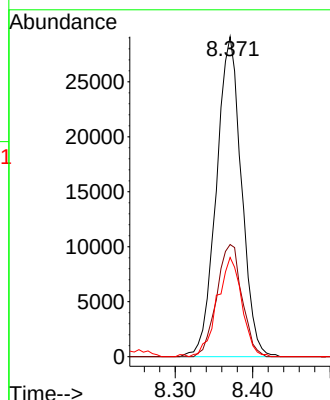
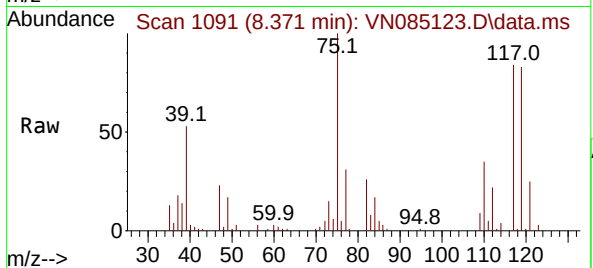




#29
1,1-Dichloropropene
Concen: 21.858 ug/l
RT: 8.371 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

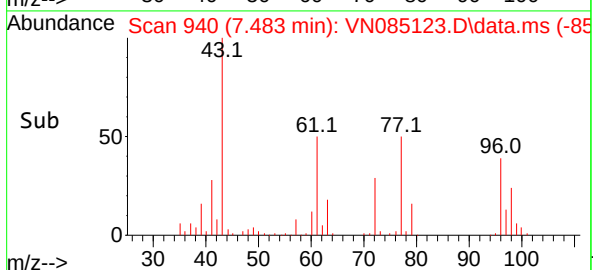
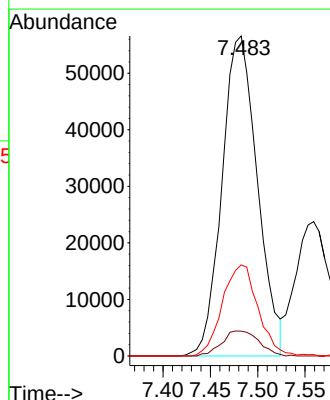
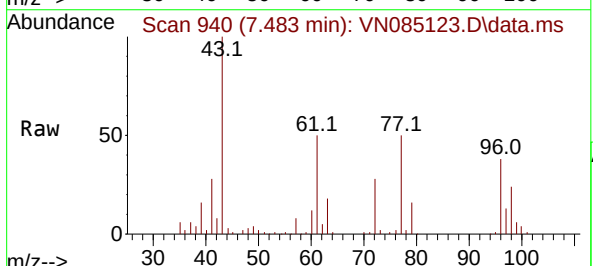
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

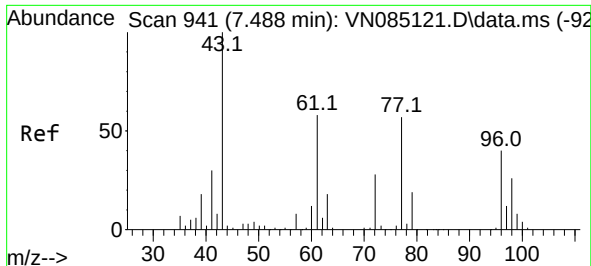
Tgt Ion: 75 Resp: 65505
Ion Ratio Lower Upper
75 100
110 35.2 0.0 71.6
77 30.4 0.0 62.2



#30
2-Butanone
Concen: 107.048 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 43 Resp: 147216
Ion Ratio Lower Upper
43 100
57 8.1 6.9 10.3
72 28.5 21.8 32.8

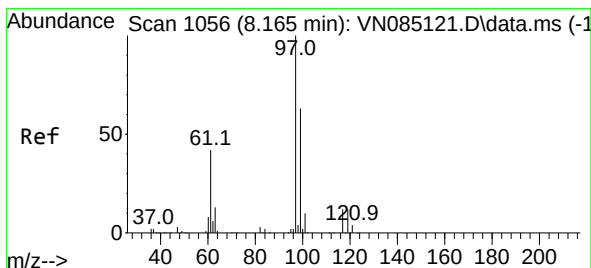
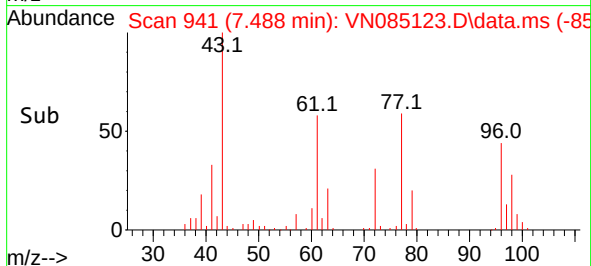
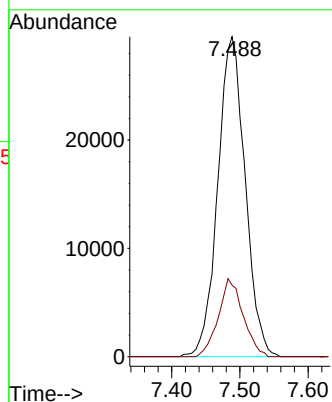
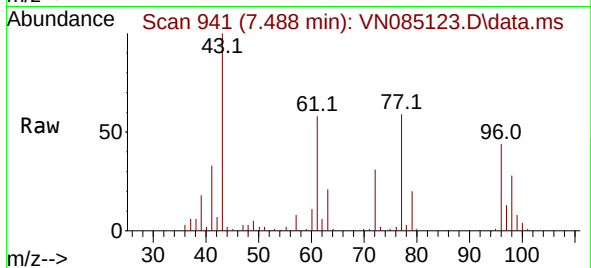




#31
2,2-Dichloropropane
Concen: 21.490 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

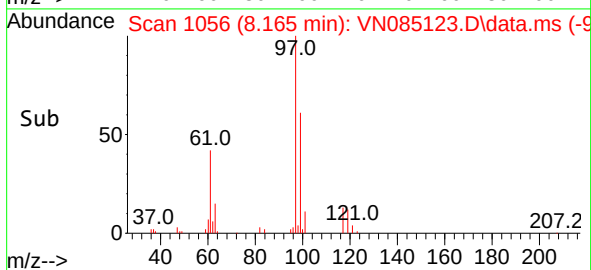
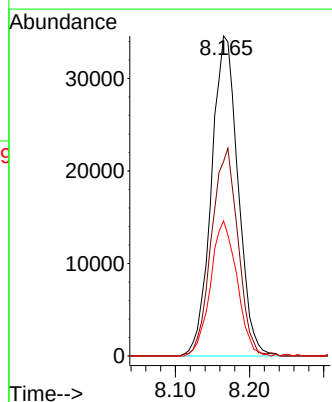
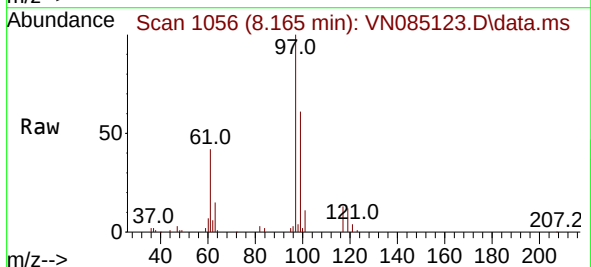
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

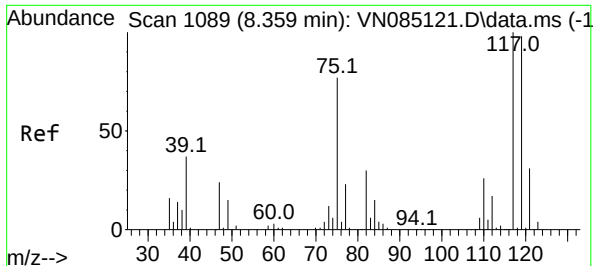
Tgt Ion: 77 Resp: 82584
Ion Ratio Lower Upper
77 100
97 22.0 0.0 0.0#



#32
1,1,1-Trichloroethane
Concen: 21.275 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 97 Resp: 86299
Ion Ratio Lower Upper
97 100
99 64.3 50.8 76.2
61 42.0 32.7 49.1

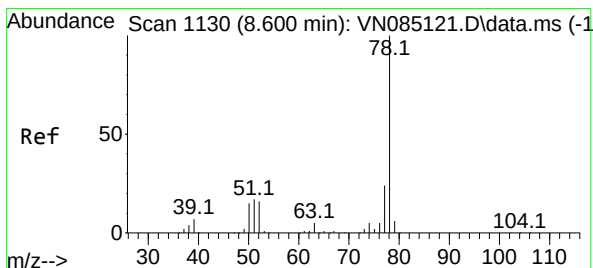
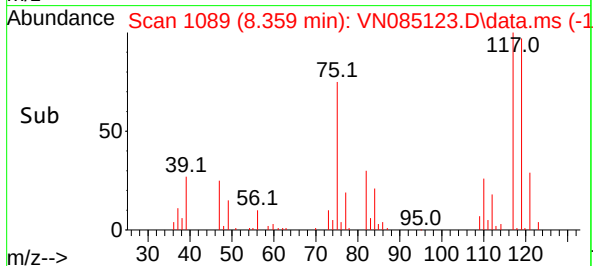
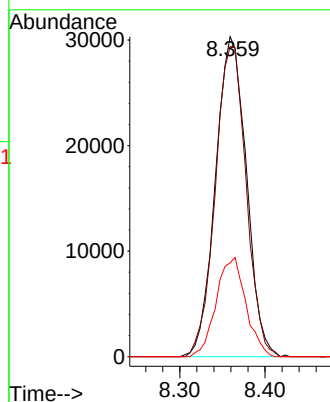
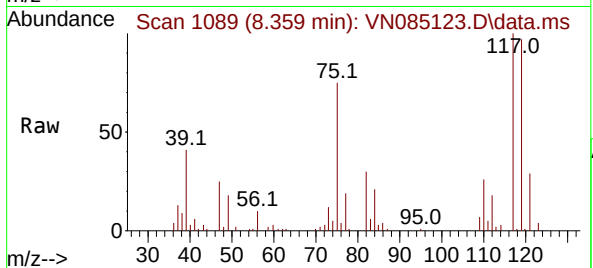




#33
Carbon Tetrachloride
Concen: 20.855 ug/l
RT: 8.359 min Scan# 1109
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

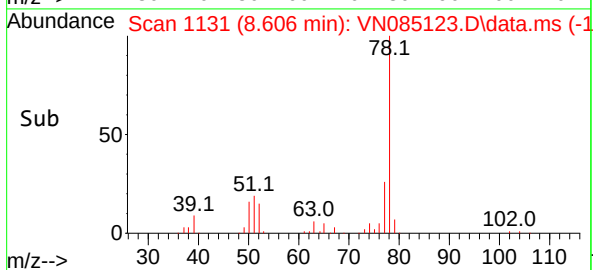
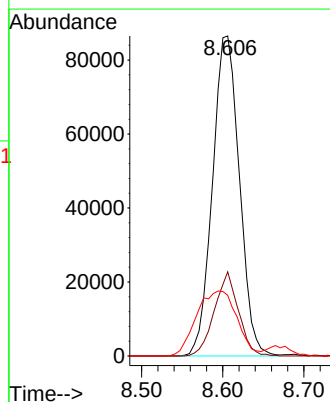
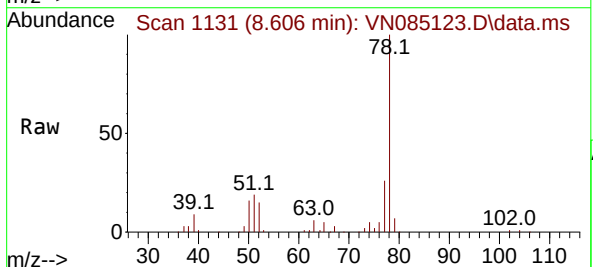
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

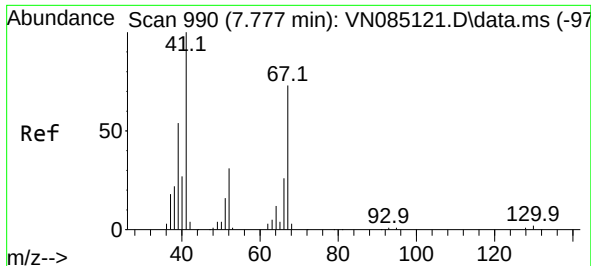
Tgt Ion:117 Resp: 76333
Ion Ratio Lower Upper
117 100
119 97.0 81.6 122.4
121 29.3 26.5 39.7



#34
Benzene
Concen: 21.162 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 78 Resp: 199228
Ion Ratio Lower Upper
78 100
77 26.3 18.0 27.0
51 17.3 12.4 18.6



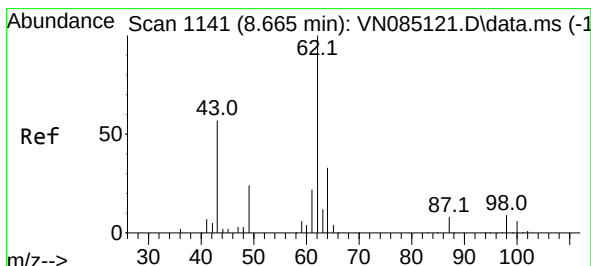
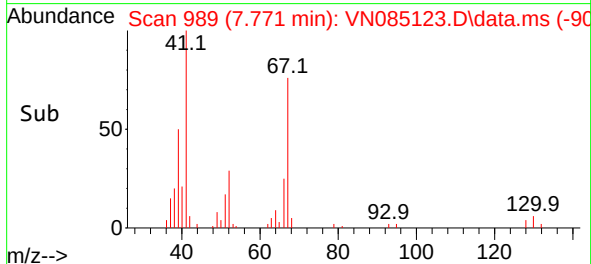
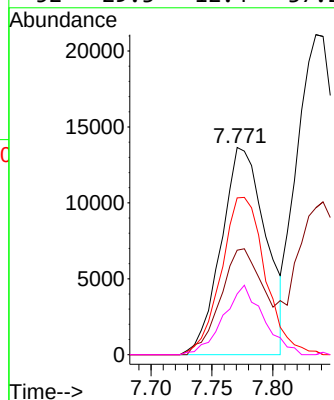
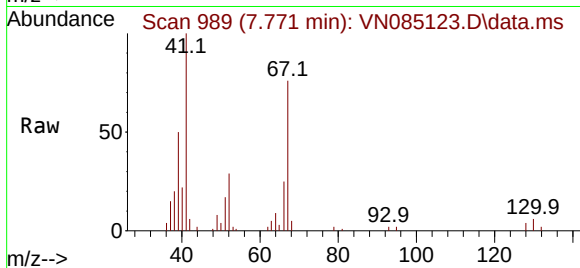


#35
Methacrylonitrile
Concen: 22.464 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion: 41 Resp: 34766

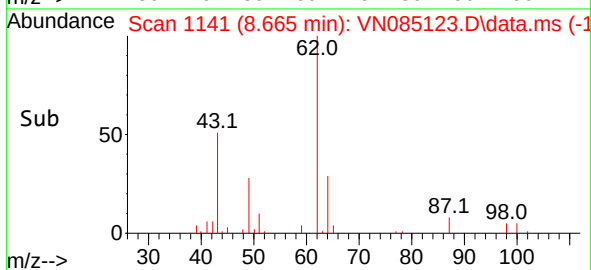
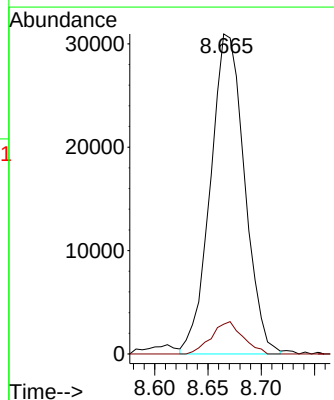
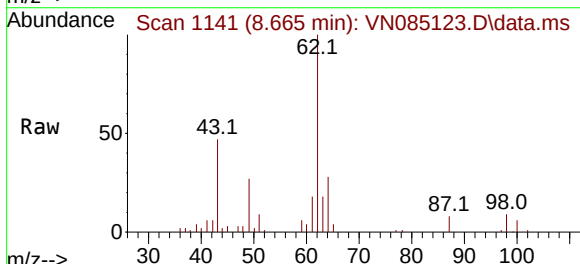
Ion	Ratio	Lower	Upper
41	100		
39	50.4	24.4	73.2
67	75.7	37.0	110.9
52	29.3	12.4	37.2

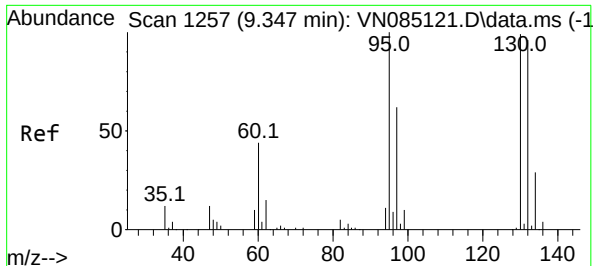


#36
1,2-Dichloroethane
Concen: 21.505 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 62 Resp: 68920

Ion	Ratio	Lower	Upper
62	100		
98	9.3	7.3	10.9





#37

Trichloroethene

Concen: 21.558 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

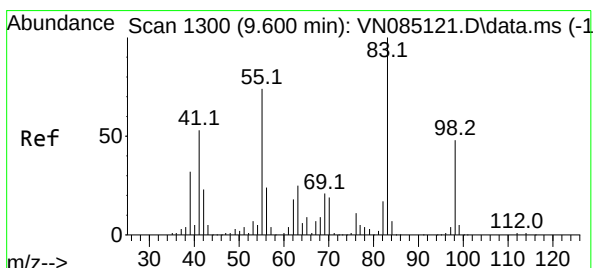
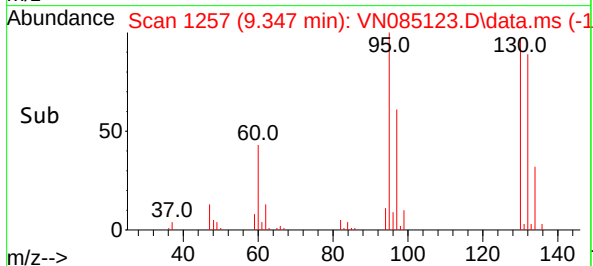
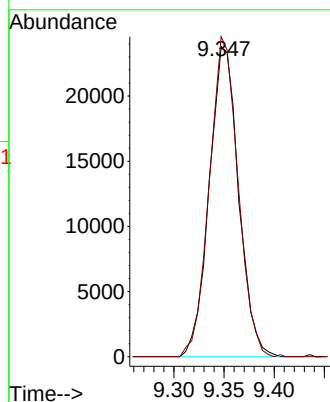
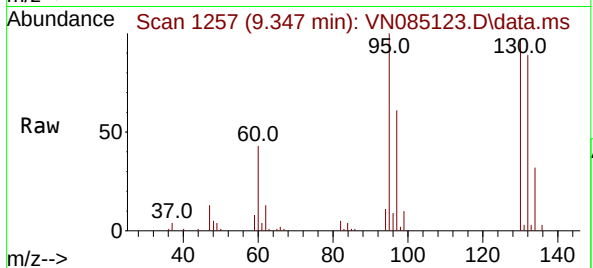
ICVFN120624

Tgt Ion:130 Resp: 48331

Ion Ratio Lower Upper

130 100

95 103.2 76.2 114.4



#38

Methylcyclohexane

Concen: 22.020 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

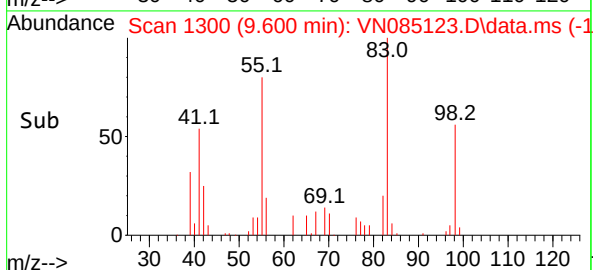
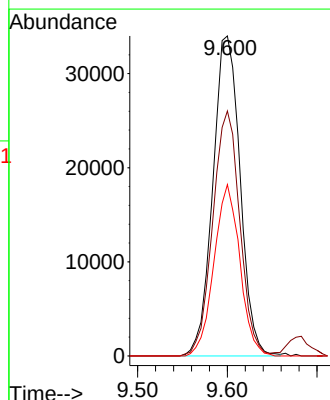
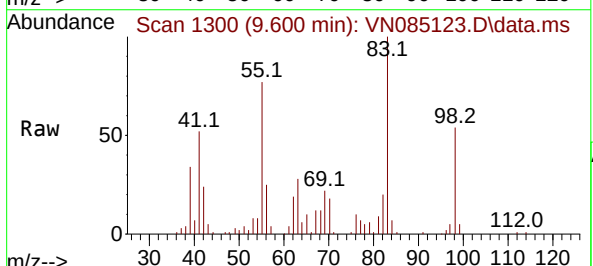
Tgt Ion: 83 Resp: 71750

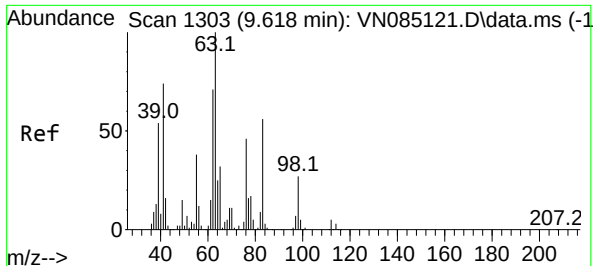
Ion Ratio Lower Upper

83 100

55 76.0 41.4 124.4

98 50.9 25.7 77.1

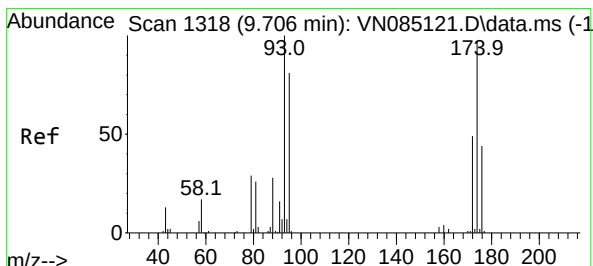
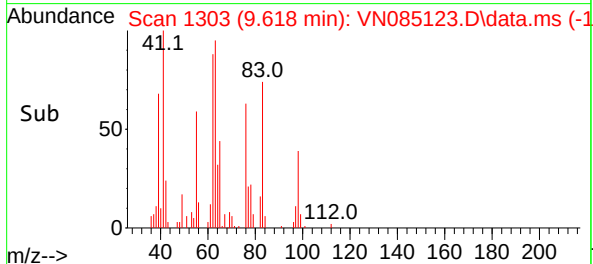
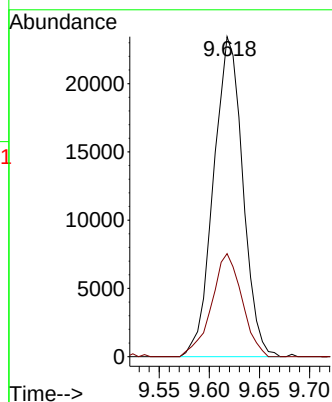
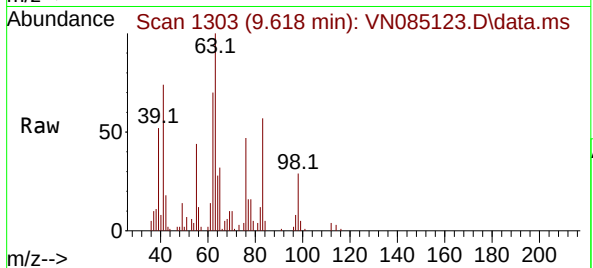




#39
1,2-Dichloropropane
Concen: 20.867 ug/l
RT: 9.618 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

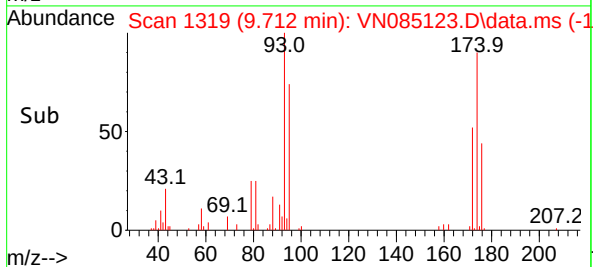
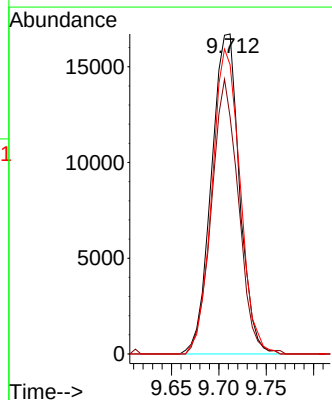
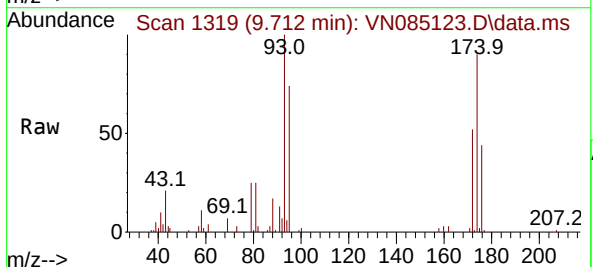
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

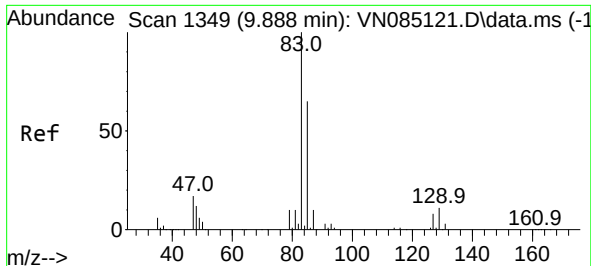
Tgt Ion: 63 Resp: 47583
Ion Ratio Lower Upper
63 100
65 32.2 23.4 35.0



#40
Dibromomethane
Concen: 21.127 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 93 Resp: 34556
Ion Ratio Lower Upper
93 100
95 81.6 0.0 169.4
174 95.0 0.0 189.8

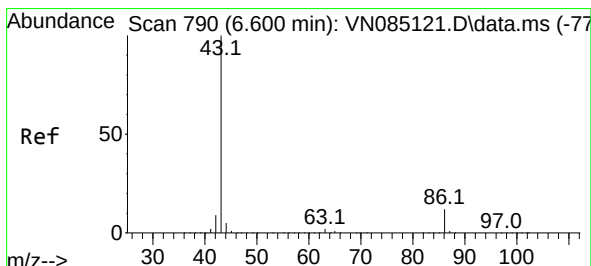
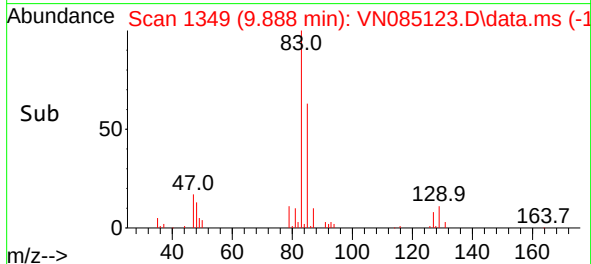
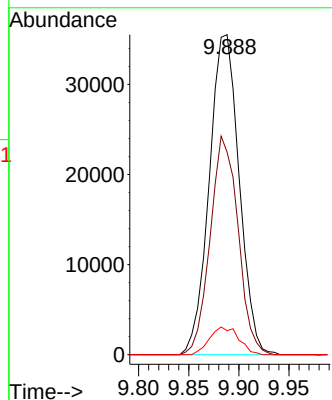
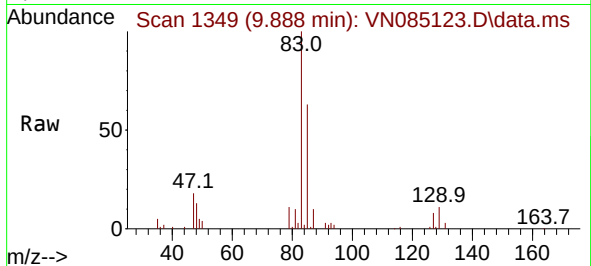




#41
Bromodichloromethane
Concen: 21.117 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

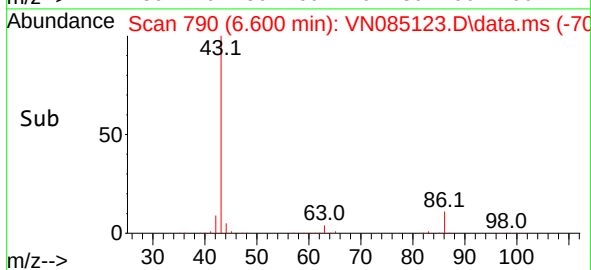
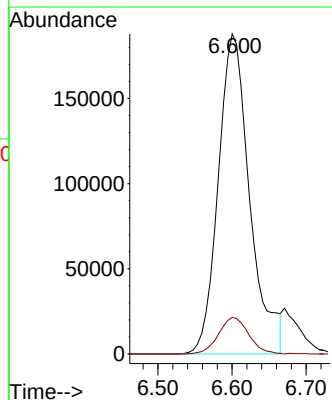
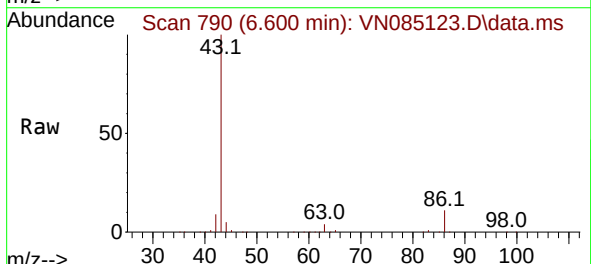
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

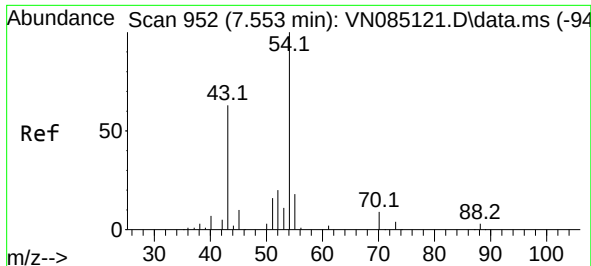
Tgt Ion:	83	Resp:	73839
Ion	Ratio	Lower	Upper
83	100		
85	63.3	54.6	81.8
127	7.5	7.0	10.6



#42
Vinyl Acetate
Concen: 115.256 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:	43	Resp:	554646
Ion	Ratio	Lower	Upper
43	100		
86	10.9	9.2	13.8

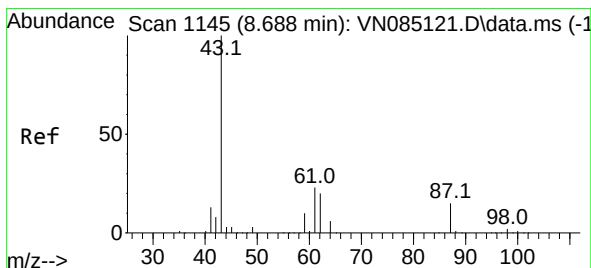
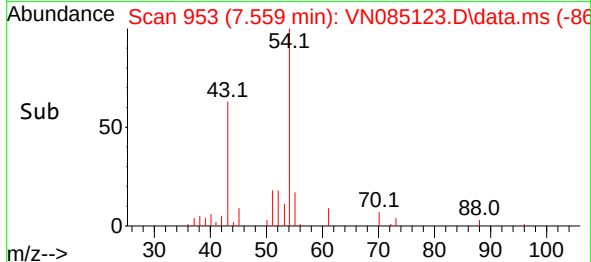
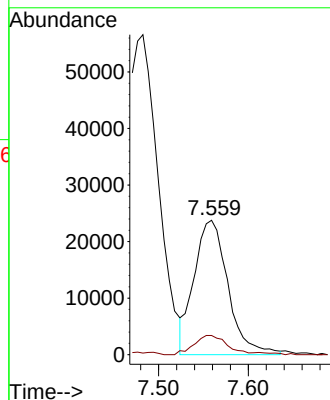
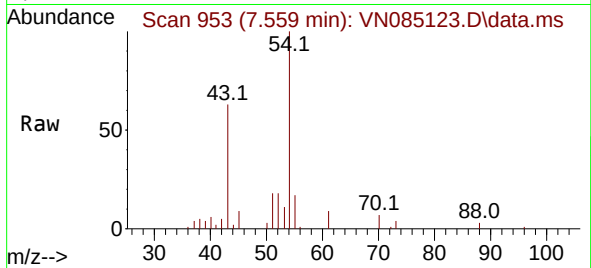




#43
Ethyl Acetate
Concen: 22.807 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

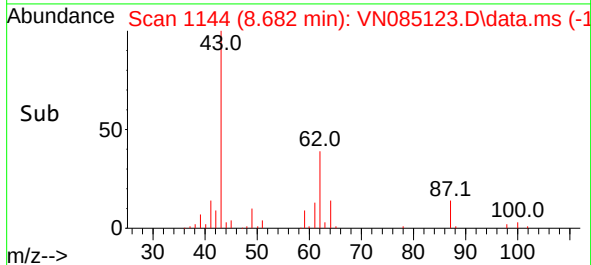
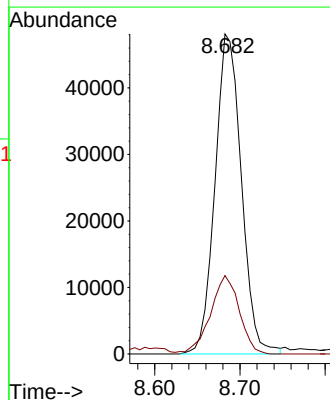
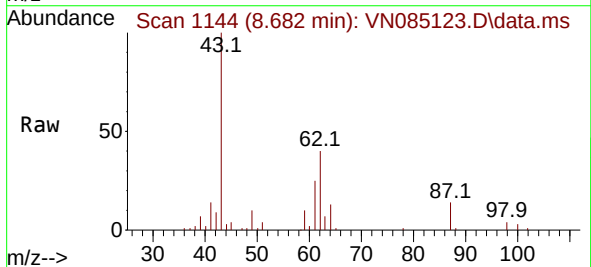
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

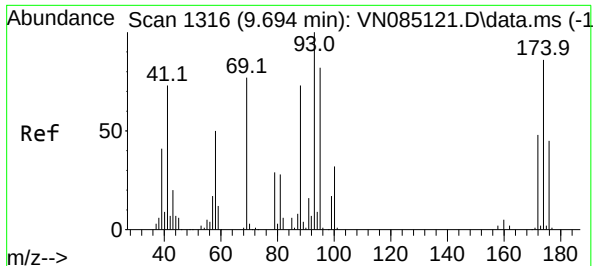
Tgt Ion: 43 Resp: 62407
Ion Ratio Lower Upper
43 100
45 13.7 13.3 19.9



#44
Isopropyl Acetate
Concen: 21.770 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 43 Resp: 103521
Ion Ratio Lower Upper
43 100
61 26.8 21.5 32.3

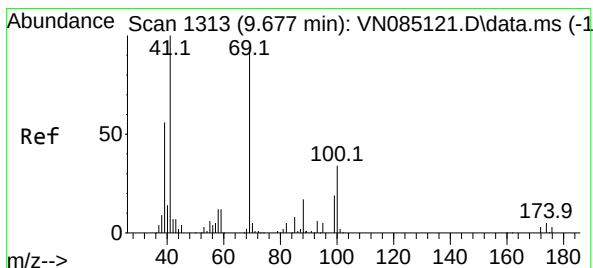
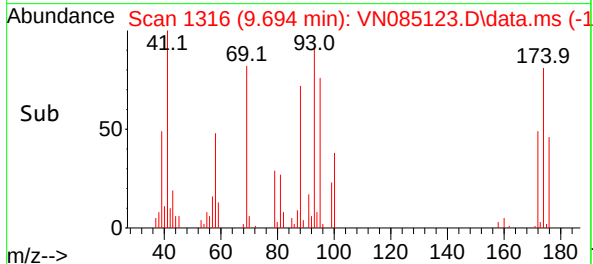
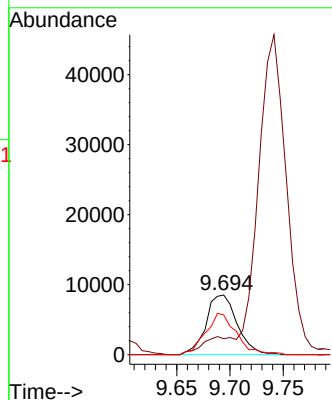
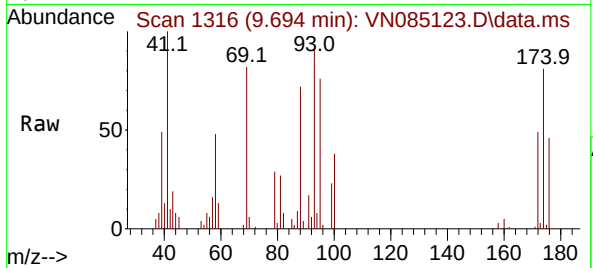




#45
1,4-Dioxane
Concen: 437.438 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

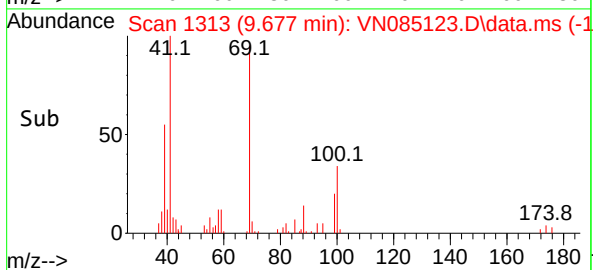
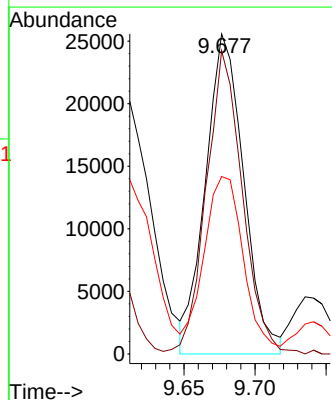
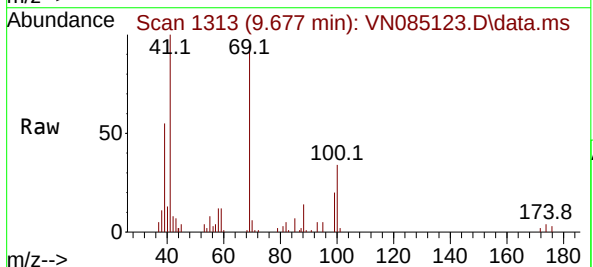
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

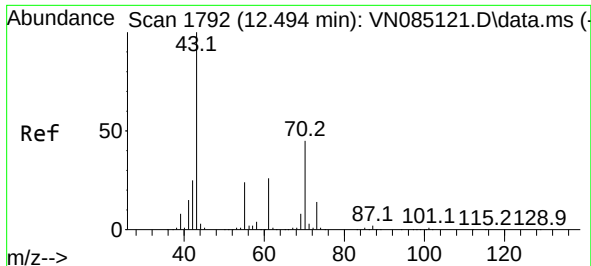
Tgt Ion: 88 Resp: 17346
Ion Ratio Lower Upper
88 100
43 31.7 21.7 32.5
58 67.5 52.6 79.0



#46
Methyl methacrylate
Concen: 21.989 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 41 Resp: 47854
Ion Ratio Lower Upper
41 100
69 98.5 46.7 140.0
39 56.0 28.5 85.5

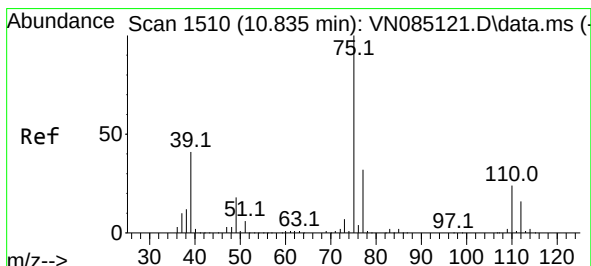
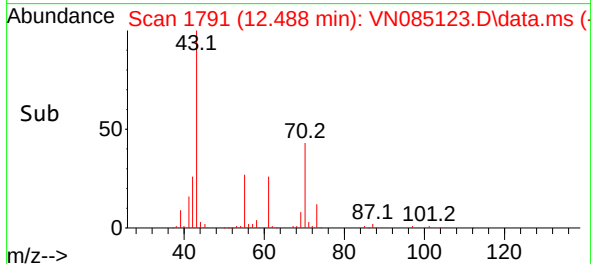
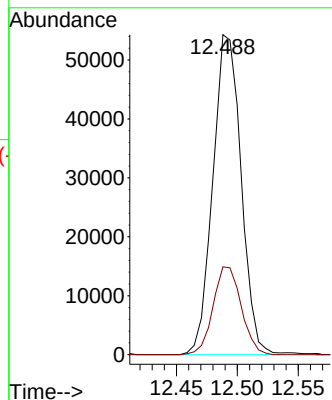
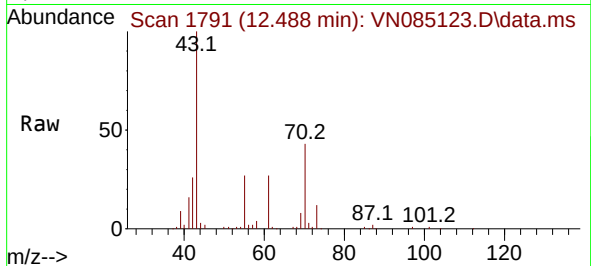




#47
n-amy1 Acetate
Concen: 21.920 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

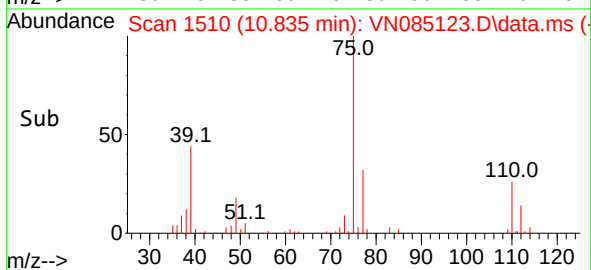
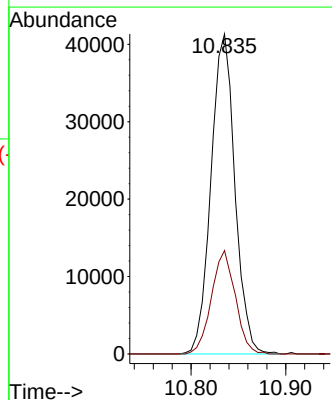
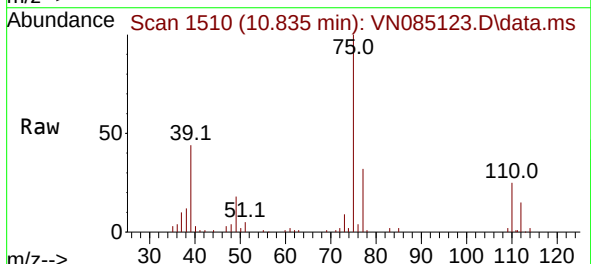
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

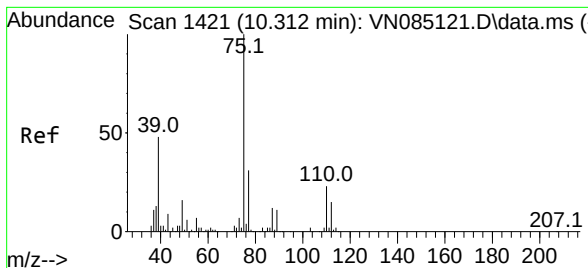
Tgt Ion: 43 Resp: 87700
Ion Ratio Lower Upper
43 100
55 27.3 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 21.161 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 75 Resp: 72633
Ion Ratio Lower Upper
75 100
77 32.3 25.5 38.3





#49

cis-1,3-Dichloropropene

Concen: 21.333 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

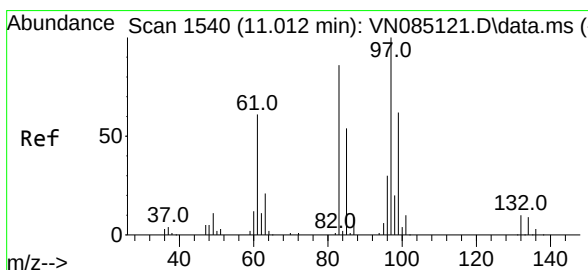
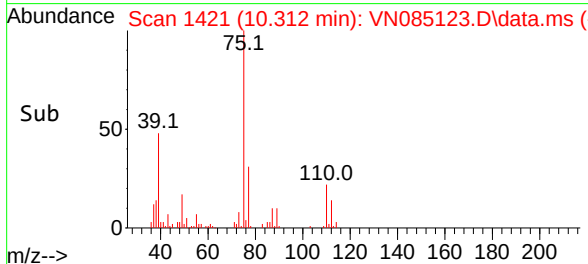
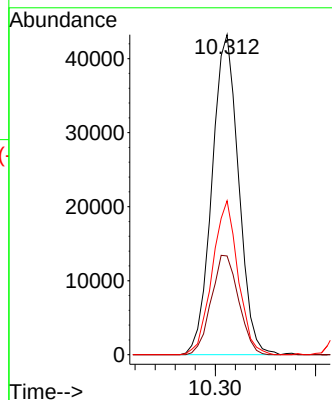
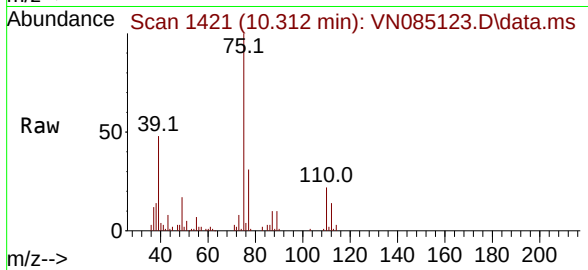
Tgt Ion: 75 Resp: 79711

Ion Ratio Lower Upper

75 100

77 30.9 23.8 35.6

39 48.1 37.3 55.9



#50

1,1,2-Trichloroethane

Concen: 21.441 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Tgt Ion: 97 Resp: 47258

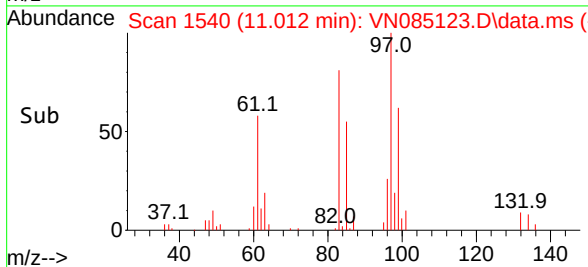
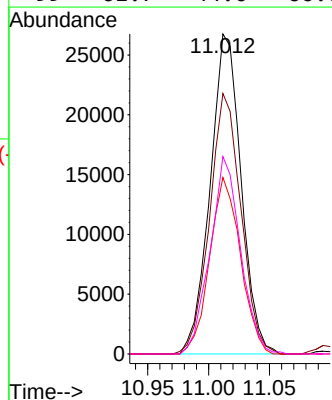
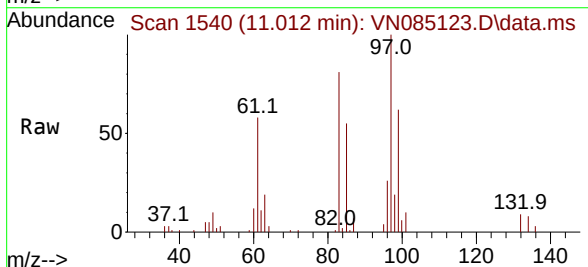
Ion Ratio Lower Upper

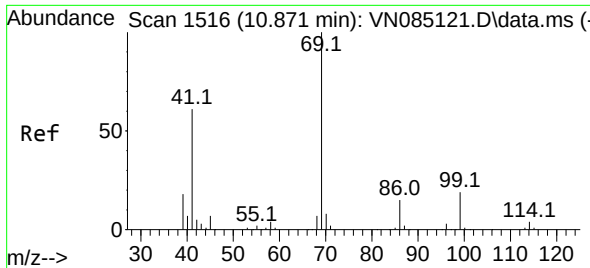
97 100

83 81.4 65.8 98.8

85 55.1 40.8 61.2

99 61.7 44.0 66.0

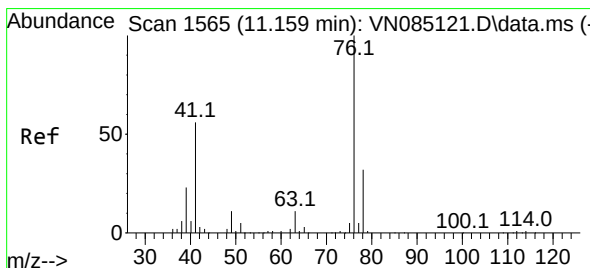
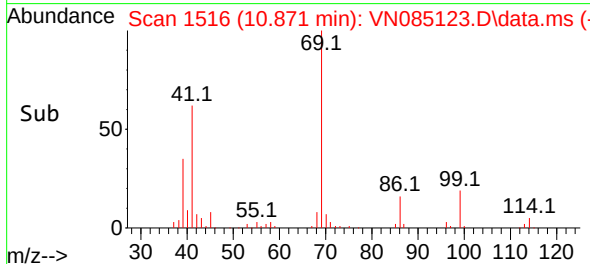
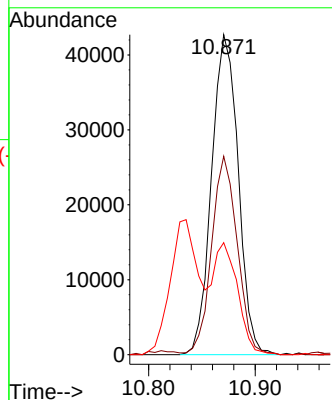
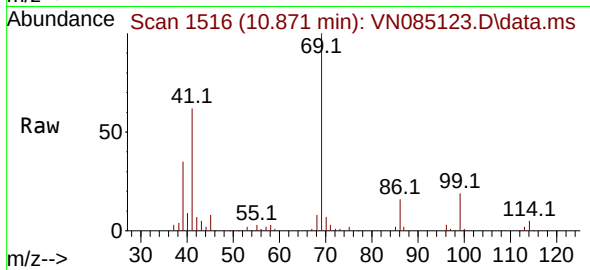




#51
Ethyl methacrylate
Concen: 22.113 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

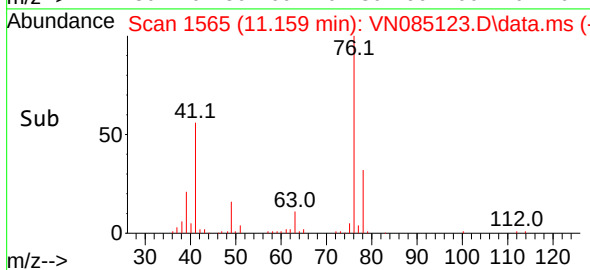
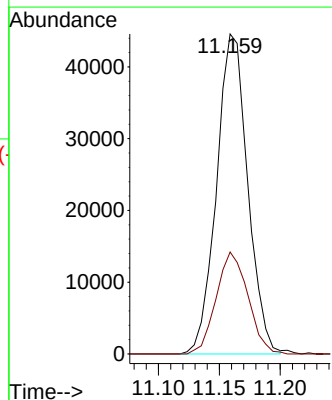
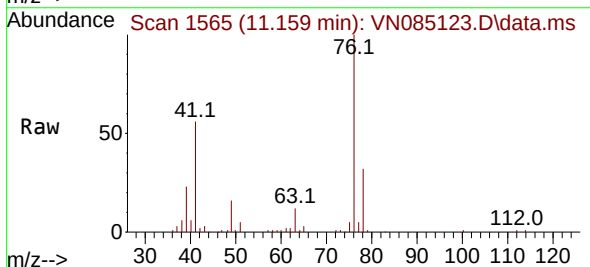
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

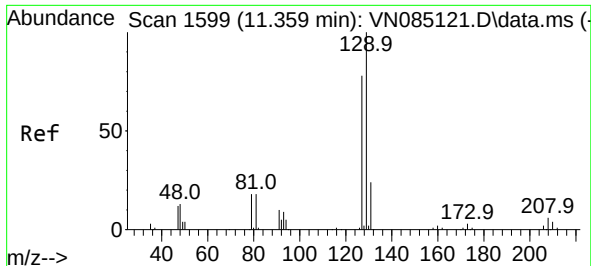
Tgt Ion: 69 Resp: 74129
Ion Ratio Lower Upper
69 100
41 62.0 32.1 96.3
39 35.0 18.8 56.4



#52
1,3-Dichloropropane
Concen: 21.486 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 76 Resp: 79252
Ion Ratio Lower Upper
76 100
78 32.5 0.0 65.6

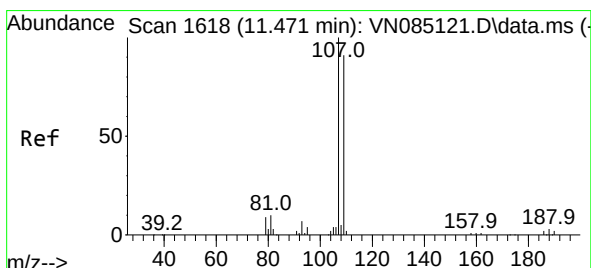
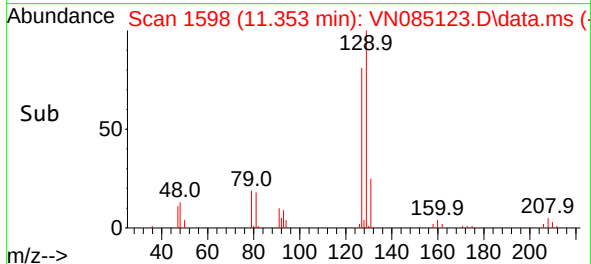
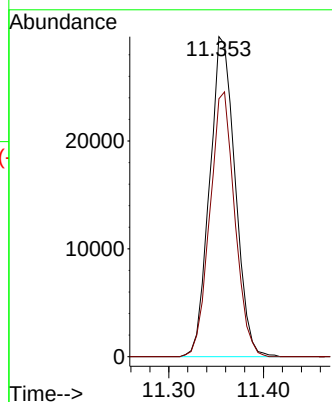
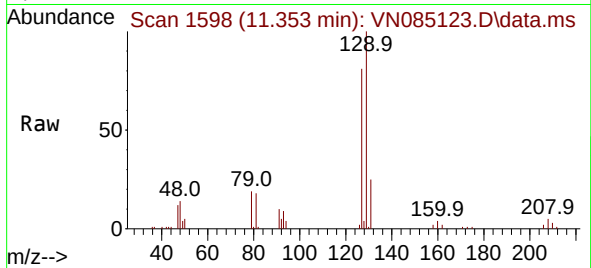




#53
Dibromochloromethane
Concen: 20.701 ug/l
RT: 11.353 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

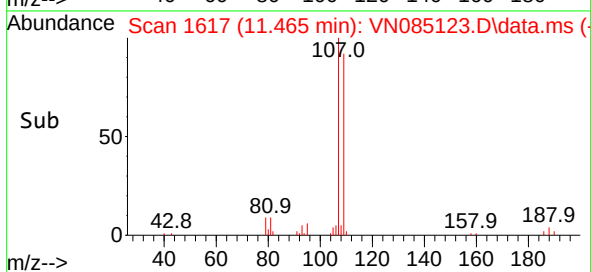
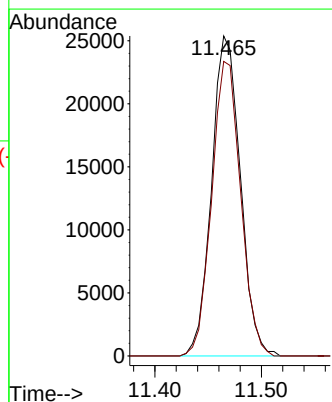
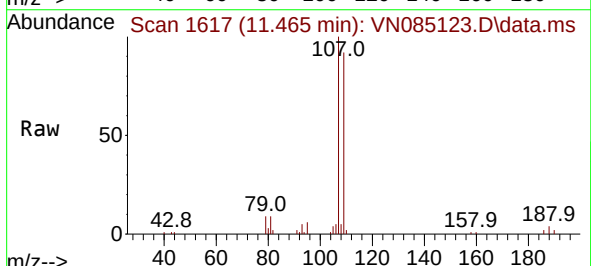
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

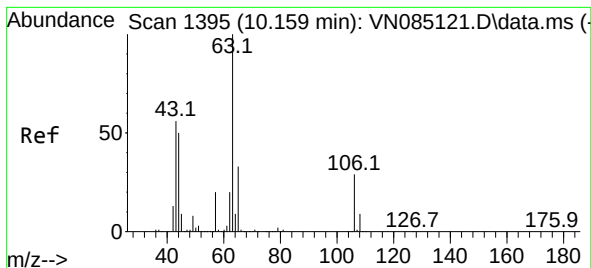
Tgt Ion:129 Resp: 55601
Ion Ratio Lower Upper
129 100
127 80.6 37.3 111.9



#54
1,2-Dibromoethane
Concen: 21.396 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:107 Resp: 47513
Ion Ratio Lower Upper
107 100
109 92.7 75.2 112.8

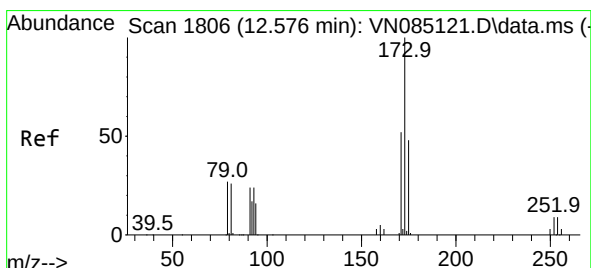
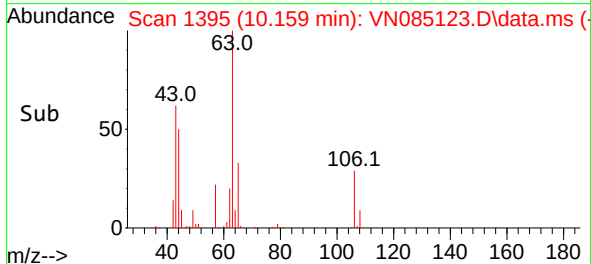
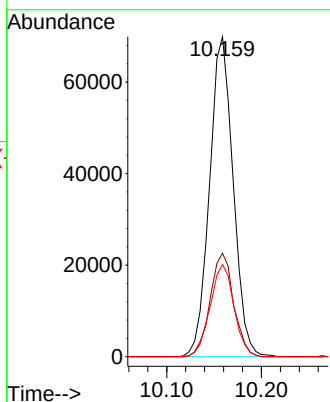
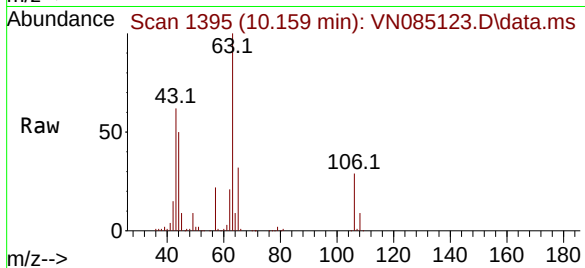




#55
2-Chloroethyl vinyl ether
Concen: 77.670 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

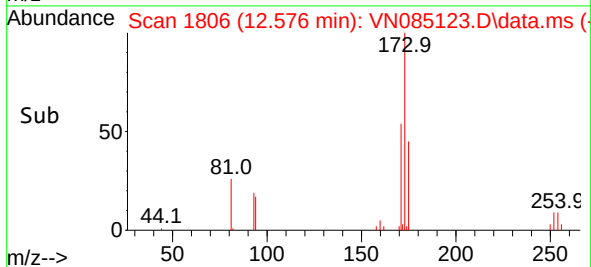
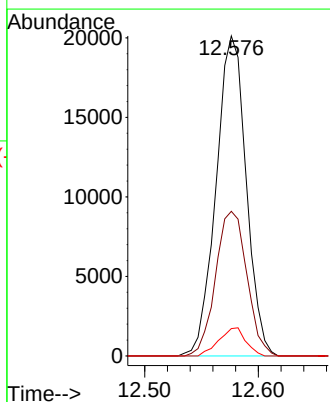
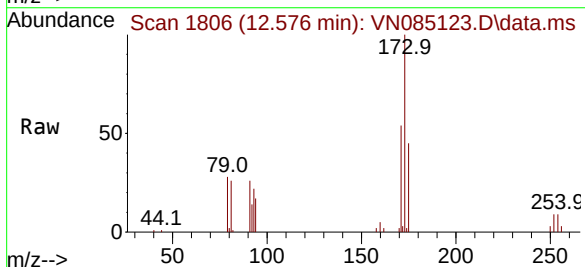
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

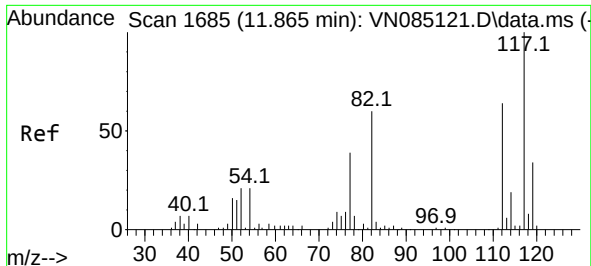
Tgt Ion: 63 Resp: 120953
Ion Ratio Lower Upper
63 100
65 32.2 25.9 38.9
106 29.1 23.5 35.3



#56
Bromoform
Concen: 20.588 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 173 Resp: 37077
Ion Ratio Lower Upper
173 100
175 46.8 40.2 60.2
254 7.8 6.2 9.4





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

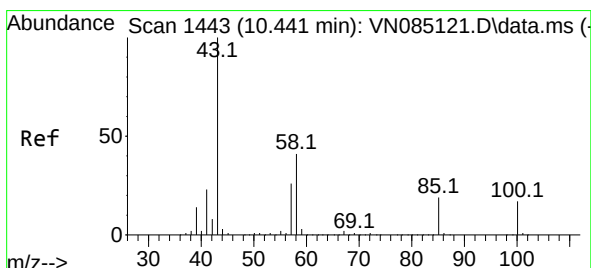
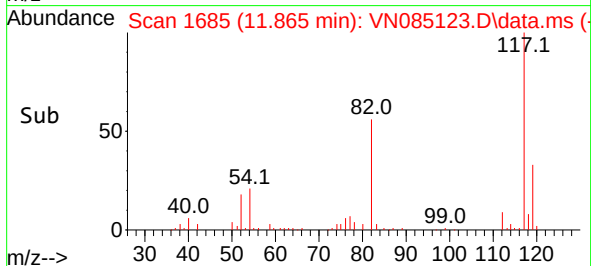
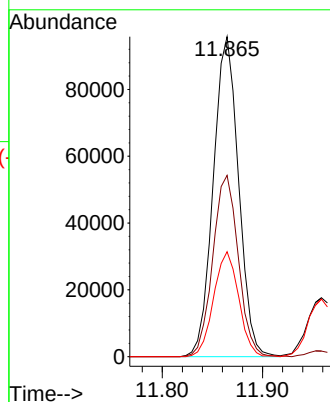
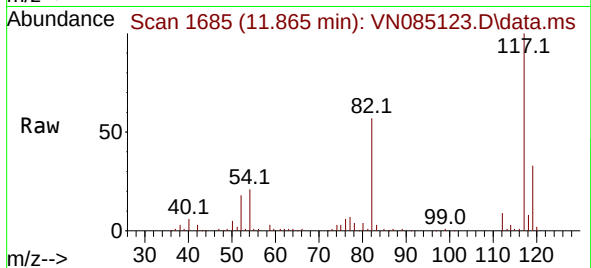
Tgt Ion:117 Resp: 167596

Ion Ratio Lower Upper

117 100

82 57.1 44.2 66.4

119 32.4 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 111.787 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

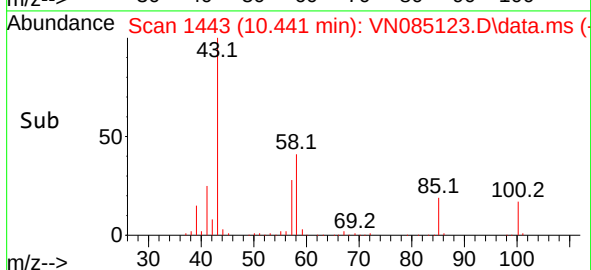
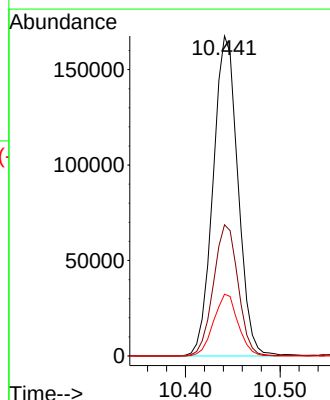
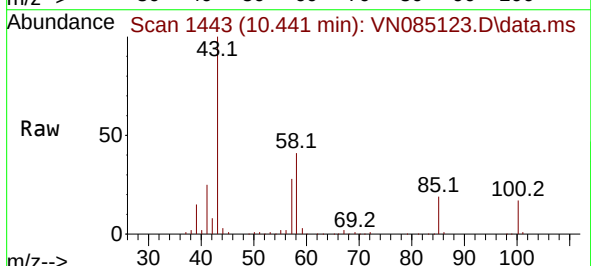
Tgt Ion: 43 Resp: 305762

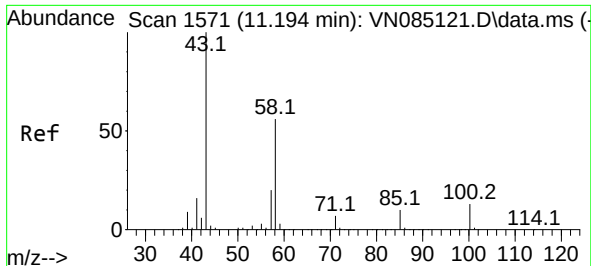
Ion Ratio Lower Upper

43 100

58 40.7 31.6 47.4

85 19.0 15.0 22.6

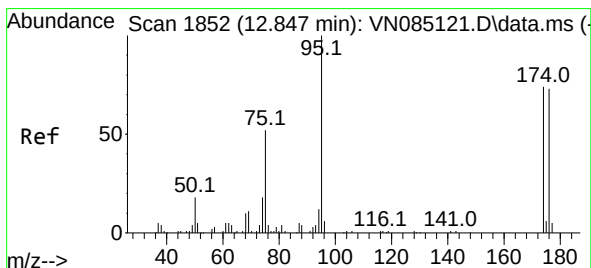
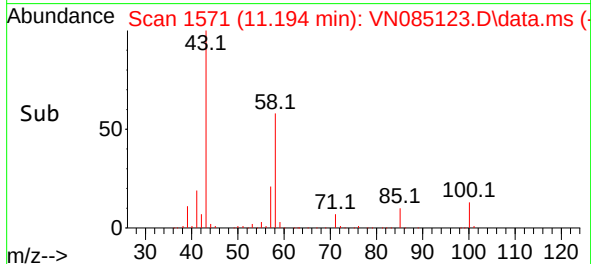
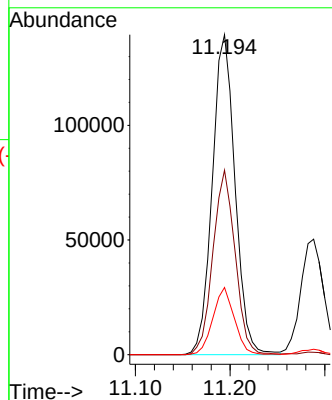
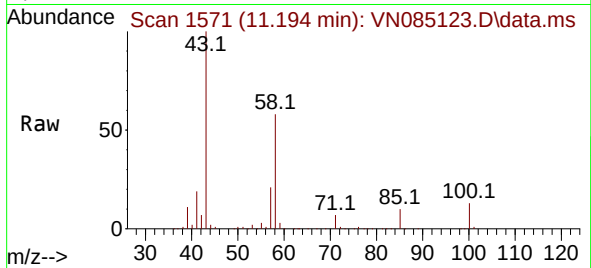




#59
2-Hexanone
Concen: 112.607 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

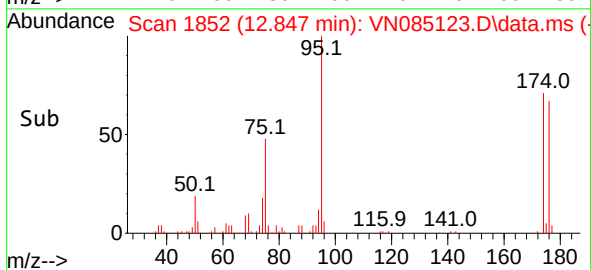
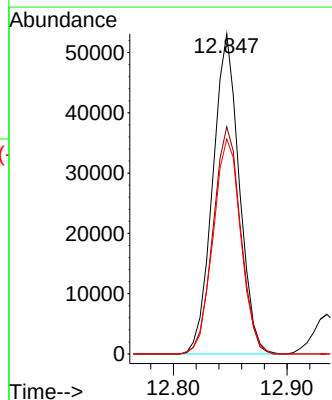
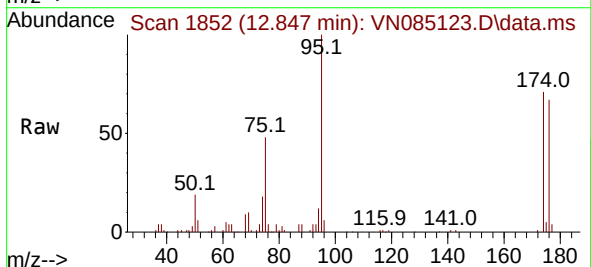
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

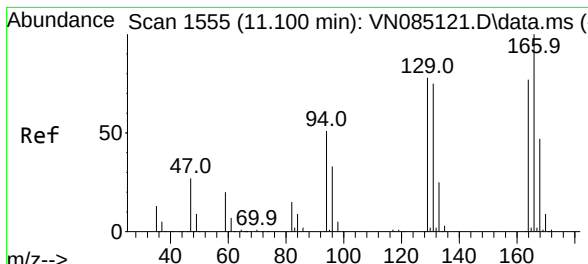
Tgt Ion: 43 Resp: 233377
Ion Ratio Lower Upper
43 100
58 56.1 43.6 65.4
57 19.8 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 30.966 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 95 Resp: 85871
Ion Ratio Lower Upper
95 100
174 73.6 60.3 90.5
176 70.5 57.4 86.0



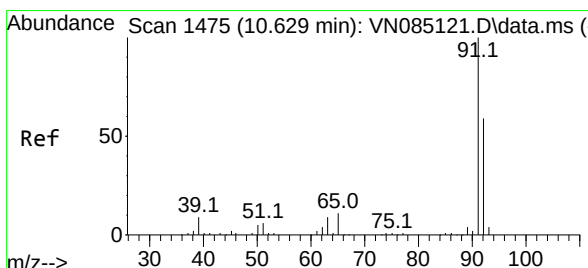
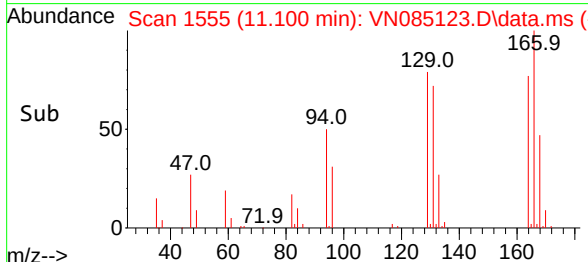
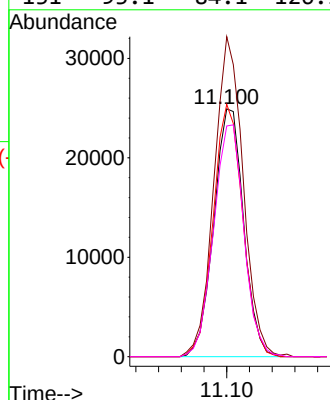
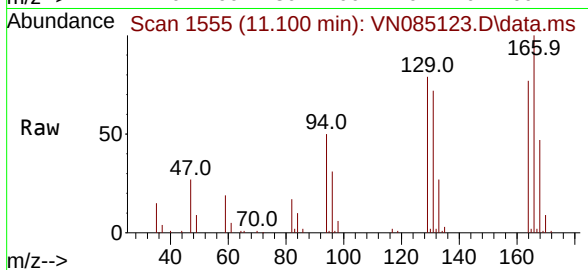


#61
Tetrachloroethene
Concen: 22.294 ug/l
RT: 11.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

Tgt Ion:164 Resp: 45248

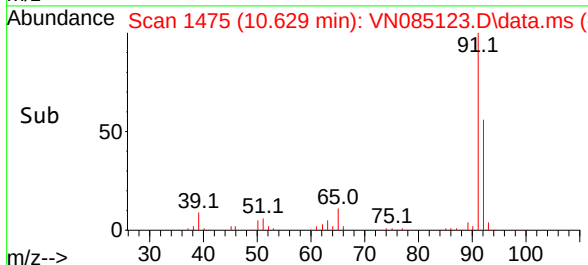
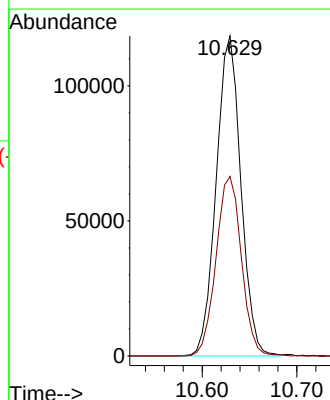
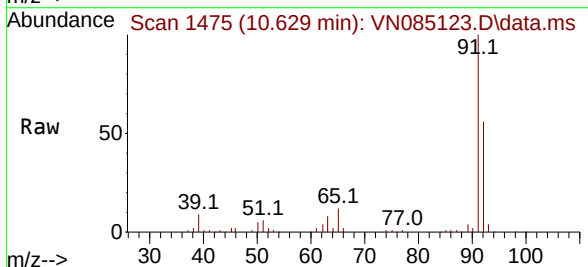
Ion	Ratio	Lower	Upper
164	100		
166	129.1	103.8	155.8
129	101.8	84.2	126.4
131	93.1	84.1	126.1

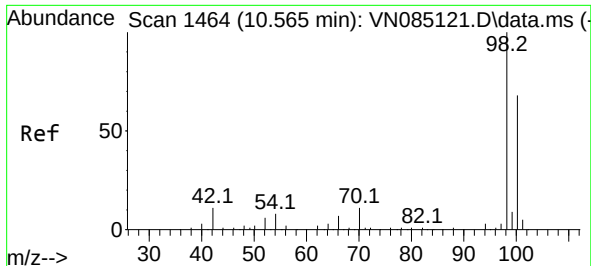


#62
Toluene
Concen: 21.975 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 91 Resp: 214790

Ion	Ratio	Lower	Upper
91	100		
92	57.5	46.5	69.7

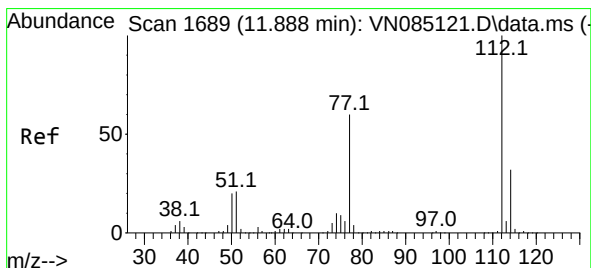
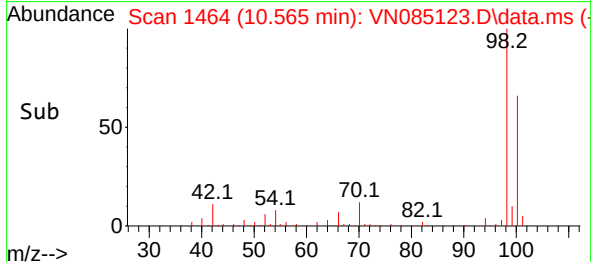
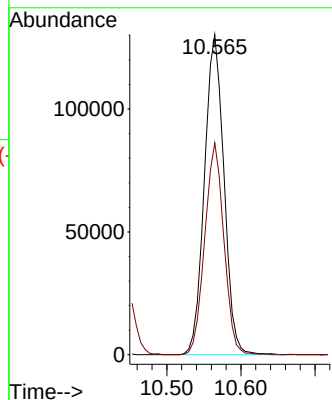
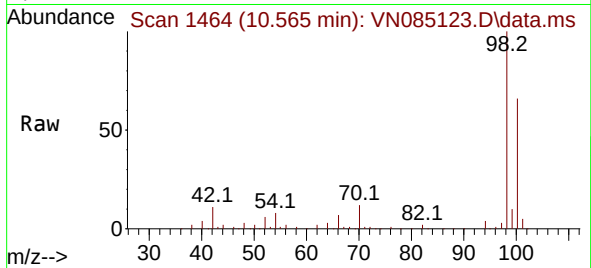




#63
Toluene-d8
Concen: 30.323 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

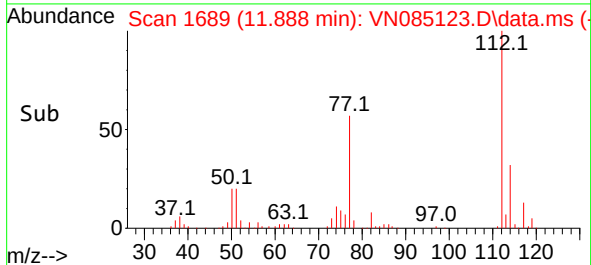
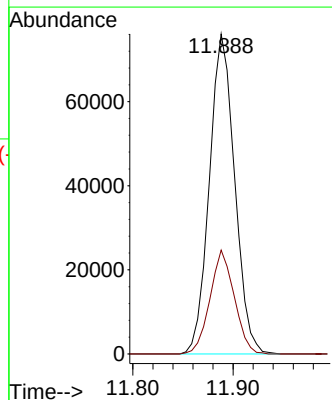
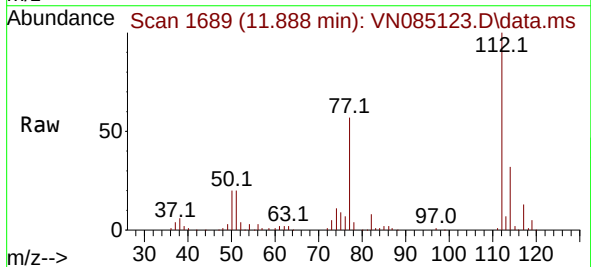
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

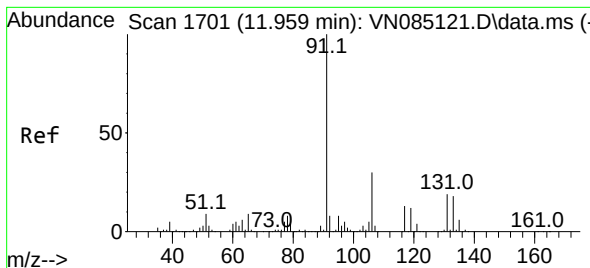
Tgt Ion: 98 Resp: 238389
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



#64
Chlorobenzene
Concen: 22.112 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 112 Resp: 133437
Ion Ratio Lower Upper
112 100
114 32.5 26.0 39.0





#65

1,1,1,2-Tetrachloroethane

Concen: 21.725 ug/l

RT: 11.959 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

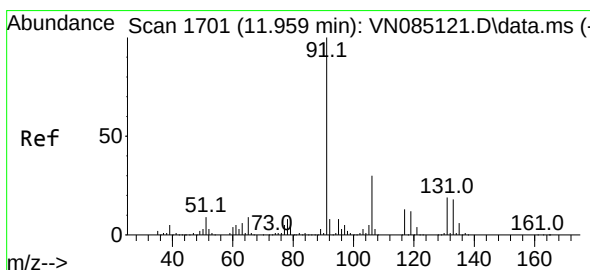
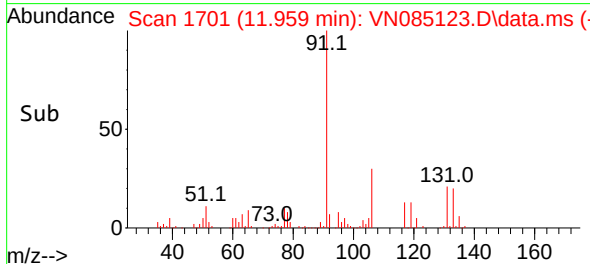
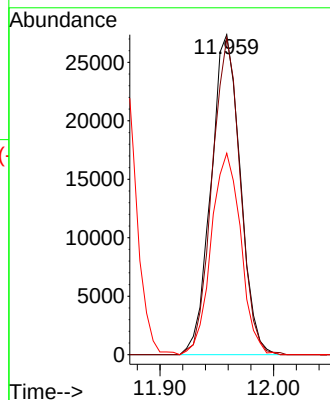
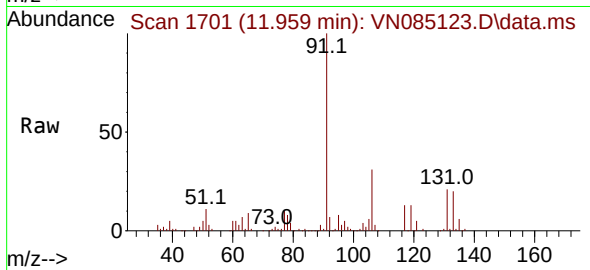
Tgt Ion:131 Resp: 48941

Ion Ratio Lower Upper

131 100

133 95.2 0.0 194.0

119 63.6 0.0 131.8



#66

Ethyl Benzene

Concen: 22.300 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN085123.D

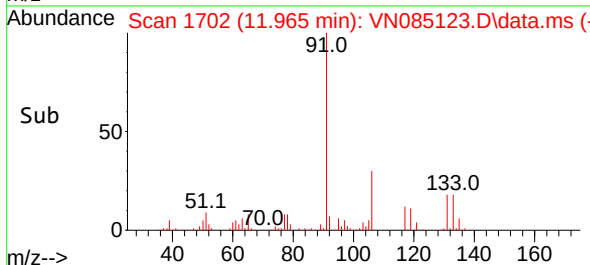
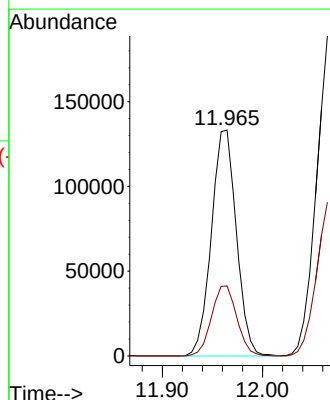
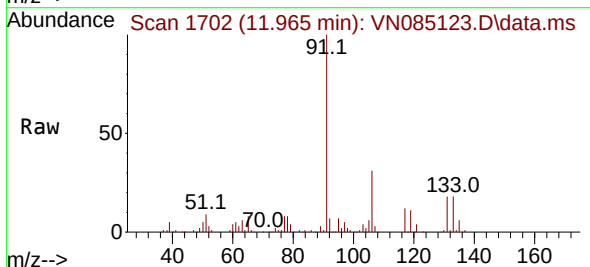
Acq: 06 Dec 2024 12:28

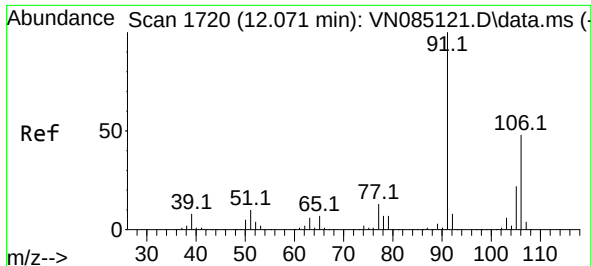
Tgt Ion: 91 Resp: 231289

Ion Ratio Lower Upper

91 100

106 31.0 23.1 34.7

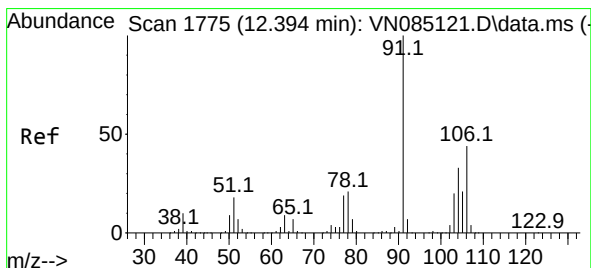
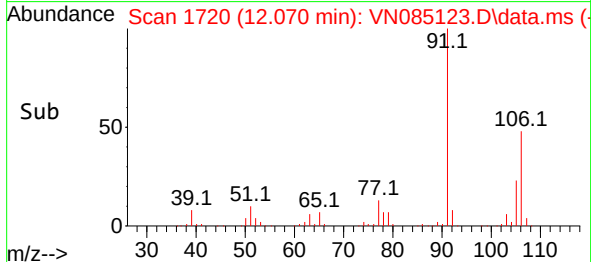
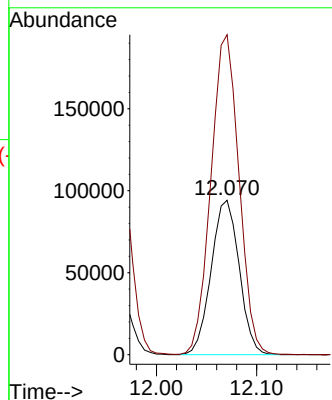
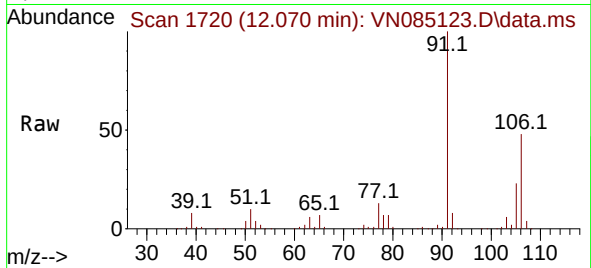




#67
m/p-Xylenes
Concen: 45.872 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

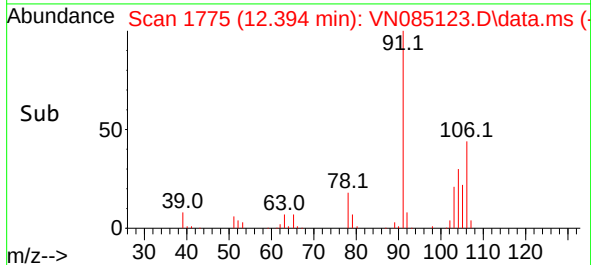
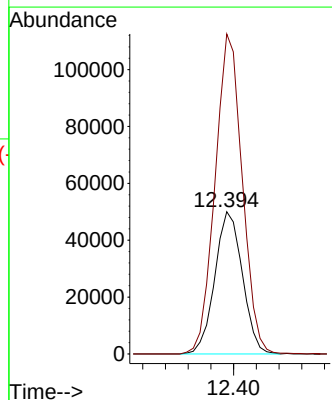
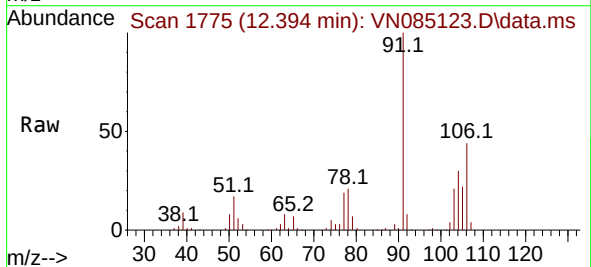
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

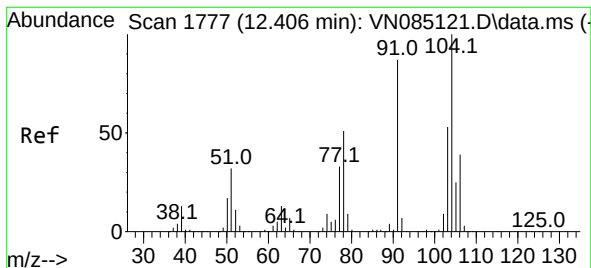
Tgt Ion:106 Resp: 182990
Ion Ratio Lower Upper
106 100
91 207.4 165.0 247.4



#68
o-Xylene
Concen: 22.492 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:106 Resp: 84266
Ion Ratio Lower Upper
106 100
91 222.2 112.1 336.4





#69

Styrene

Concen: 22.822 ug/l

RT: 12.412 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

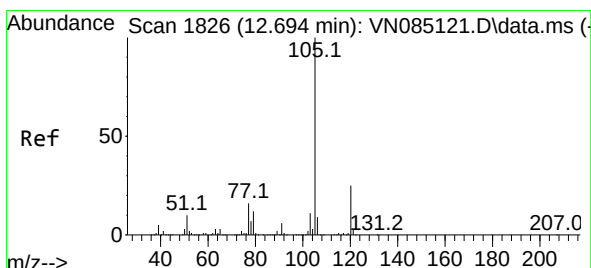
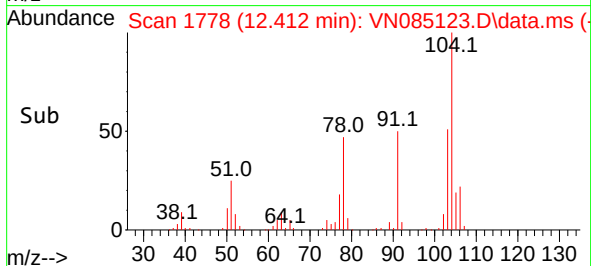
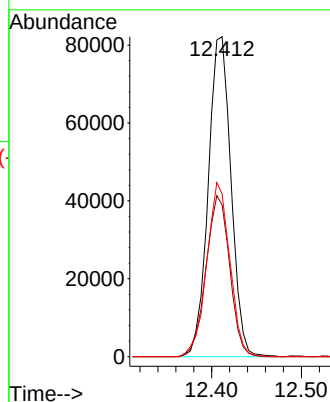
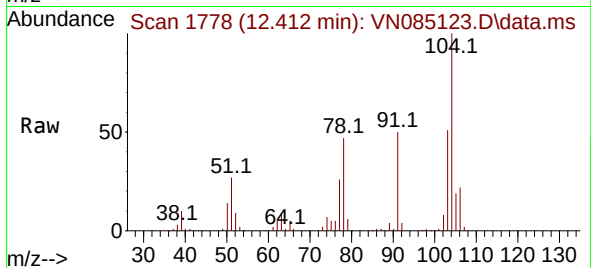
Tgt Ion:104 Resp: 145082

Ion Ratio Lower Upper

104 100

78 52.2 42.3 63.5

103 55.1 44.4 66.6



#70

Isopropylbenzene

Concen: 22.540 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN085123.D

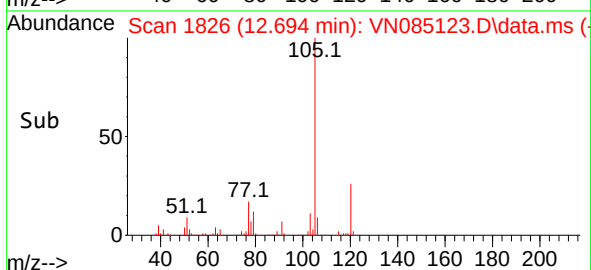
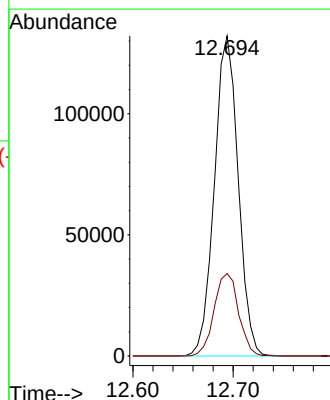
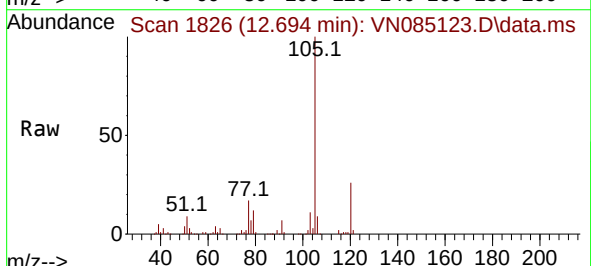
Acq: 06 Dec 2024 12:28

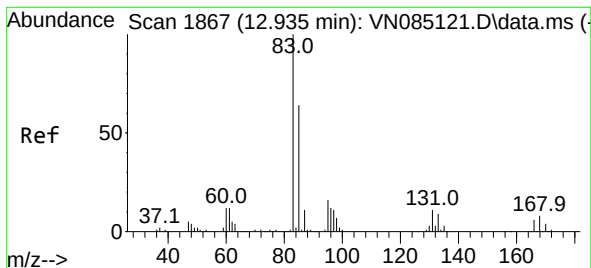
Tgt Ion:105 Resp: 217804

Ion Ratio Lower Upper

105 100

120 26.4 18.3 33.9

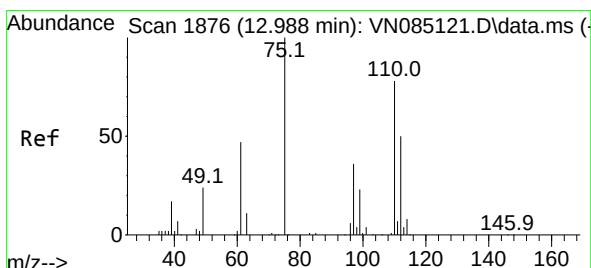
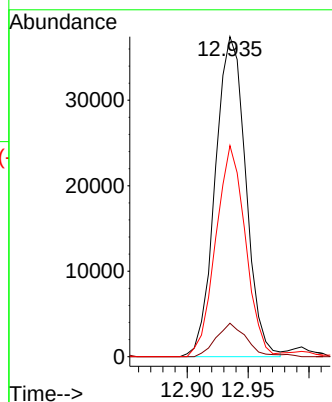
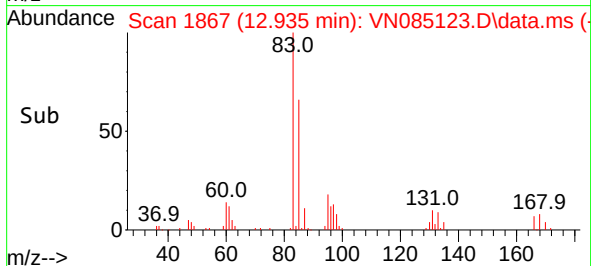
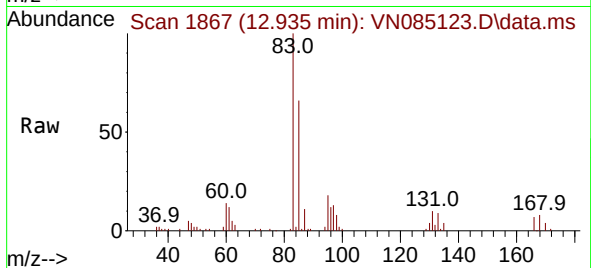




#71
1,1,2,2-Tetrachloroethane
Concen: 22.210 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

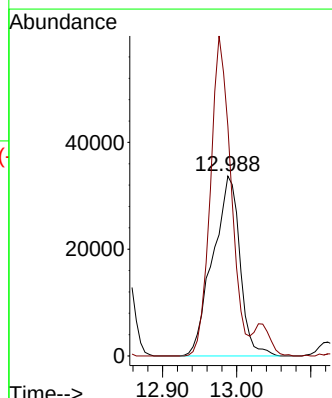
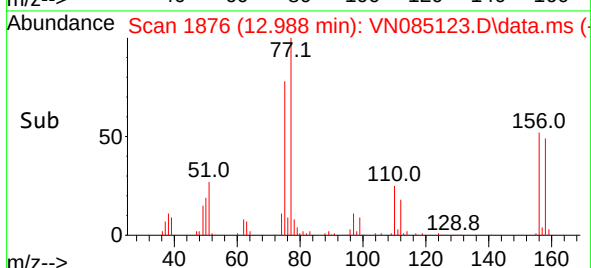
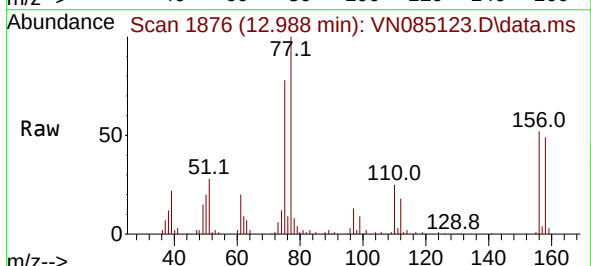
Instrument :
MSVOA_N
ClientSampleId :
ICNVN120624

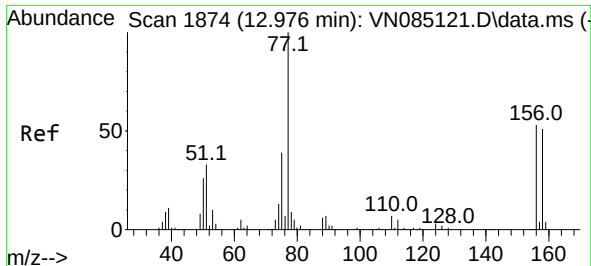
Tgt Ion: 83 Resp: 65321
Ion Ratio Lower Upper
83 100
131 10.3 5.1 15.3
85 64.0 31.1 93.5



#72
1,2,3-Trichloropropane
Concen: 29.489 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 75 Resp: 85676
Ion Ratio Lower Upper
75 100
77 135.1 0.0 339.0

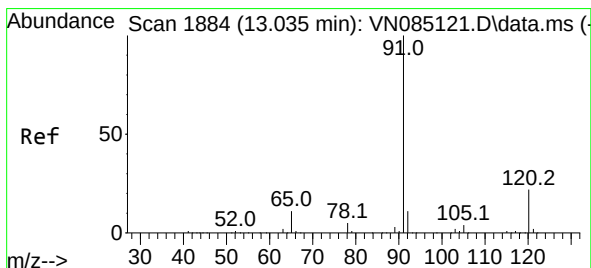
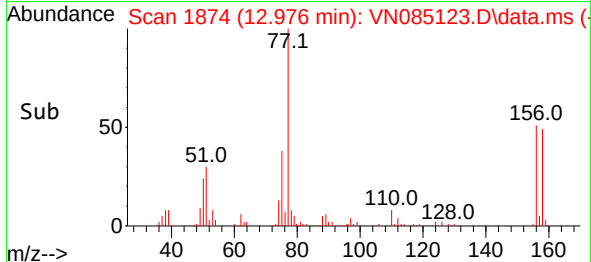
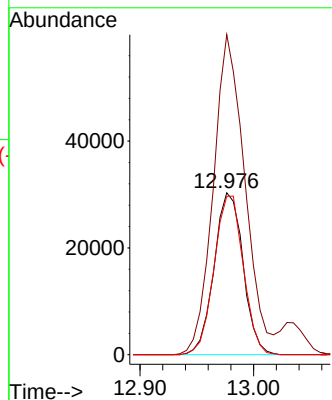
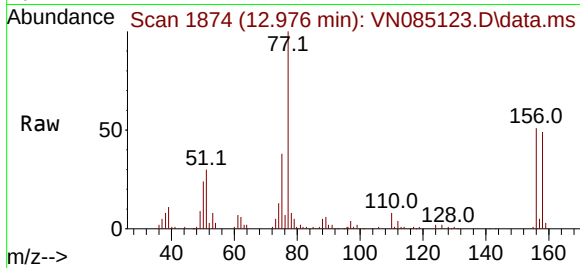




#73
Bromobenzene
Concen: 22.241 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

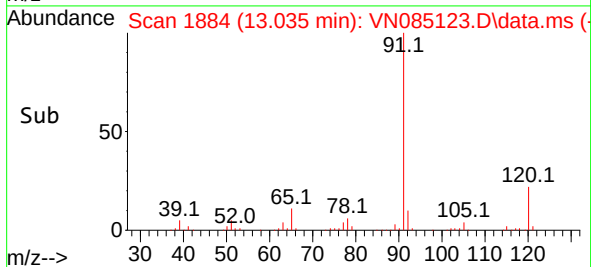
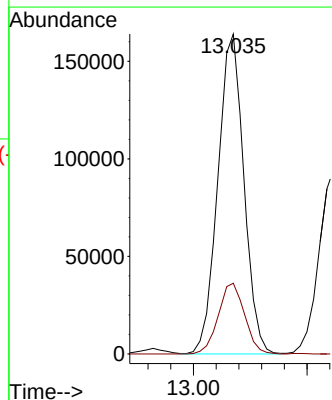
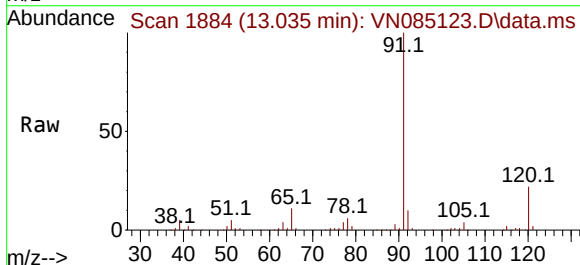
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

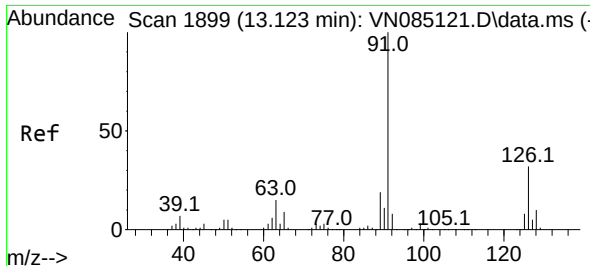
Tgt Ion:156 Resp: 53832
Ion Ratio Lower Upper
156 100
77 215.0 0.0 430.4
158 99.0 0.0 195.2



#74
n-propylbenzene
Concen: 22.470 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 91 Resp: 261027
Ion Ratio Lower Upper
91 100
120 22.3 0.0 44.0

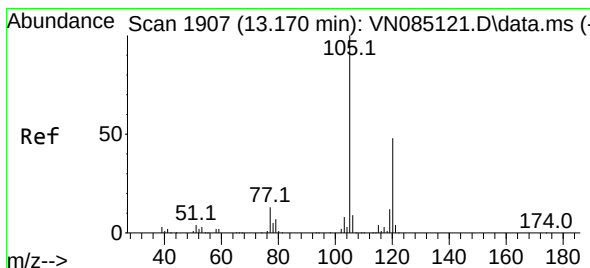
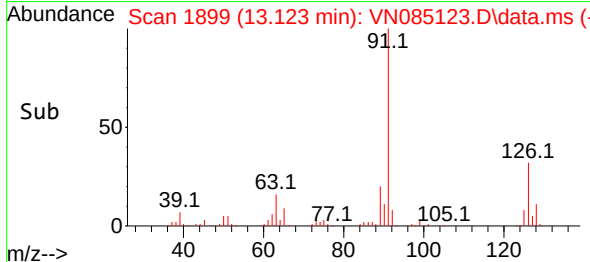
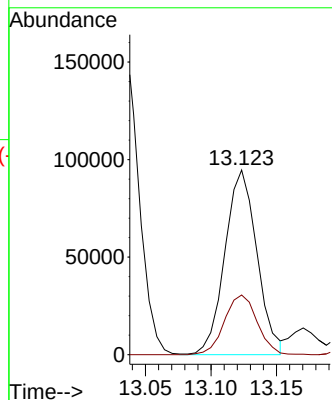
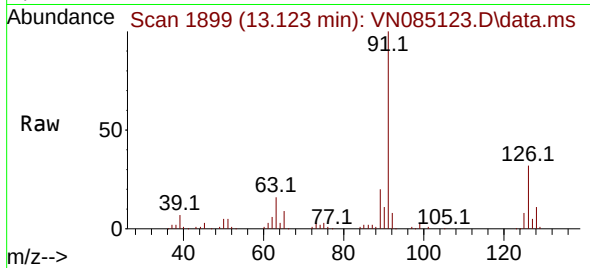




#75
2-Chlorotoluene
Concen: 22.446 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

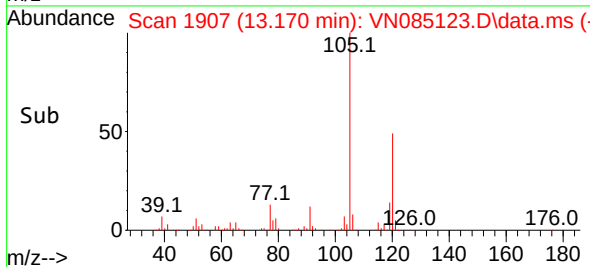
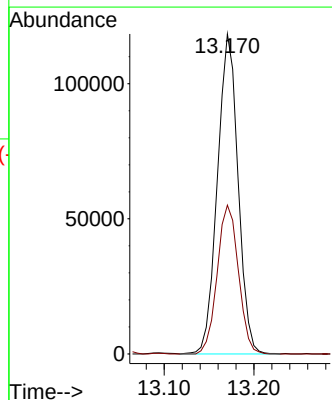
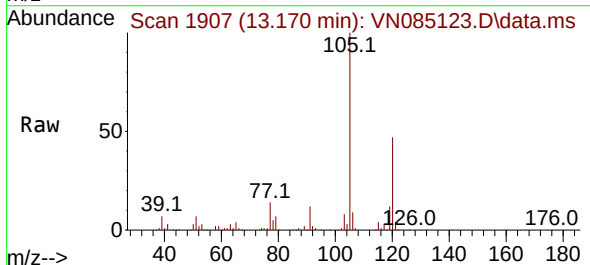
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

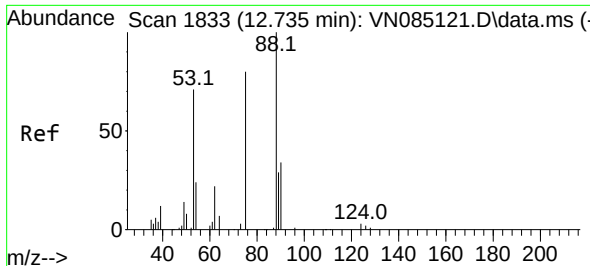
Tgt Ion: 91 Resp: 161221
Ion Ratio Lower Upper
91 100
126 32.9 0.0 64.2



#76
1,3,5-Trimethylbenzene
Concen: 22.843 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:105 Resp: 189105
Ion Ratio Lower Upper
105 100
120 47.7 0.0 94.4

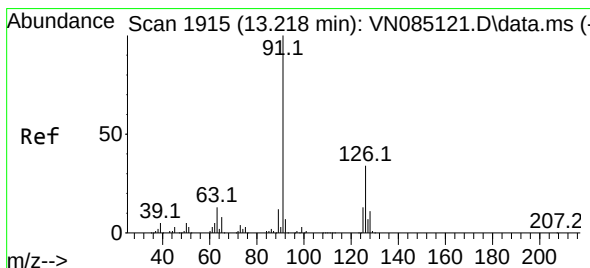
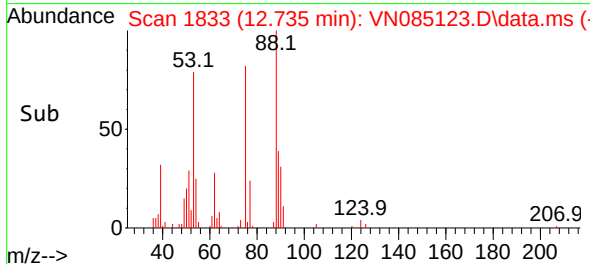
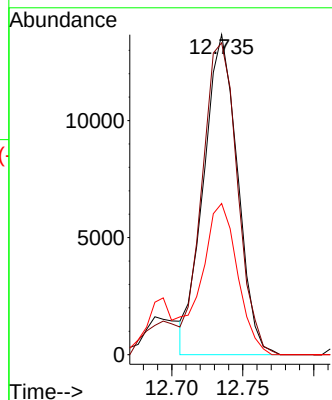
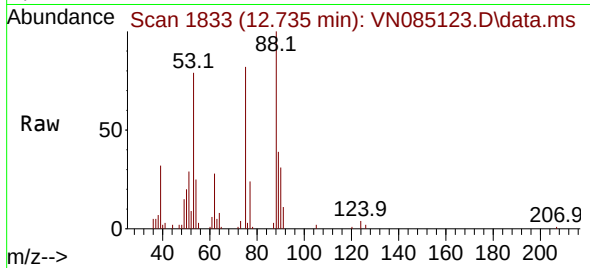




#77
t-1,4-Dichloro-2-butene
Concen: 21.535 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

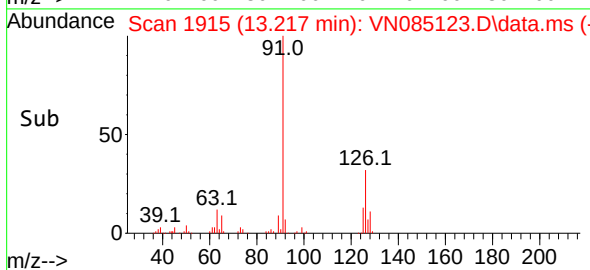
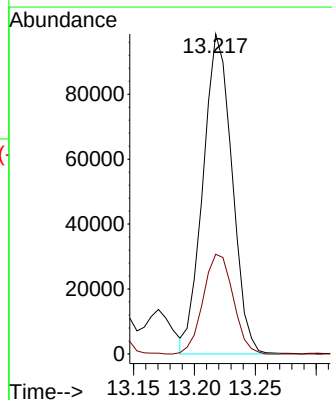
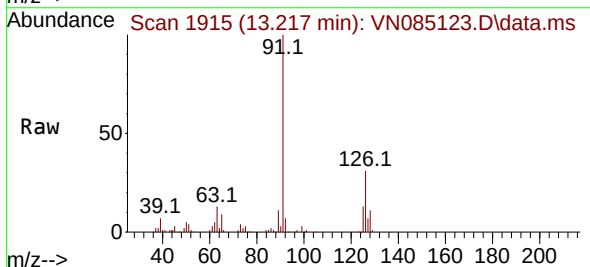
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

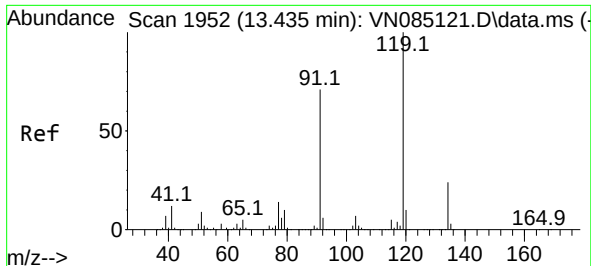
Tgt Ion: 75 Resp: 22735
Ion Ratio Lower Upper
75 100
53 97.4 49.1 147.3
89 47.2 22.9 68.5



#78
4-Chlorotoluene
Concen: 22.456 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 91 Resp: 163711
Ion Ratio Lower Upper
91 100
126 32.1 0.0 64.4

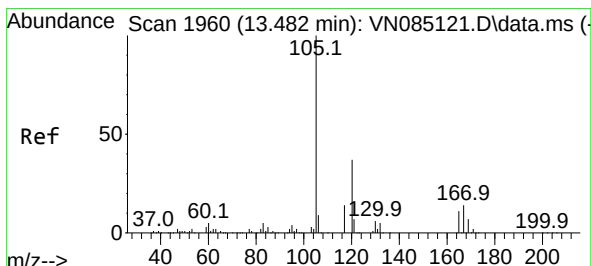
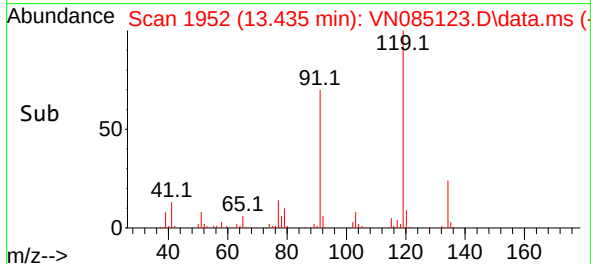
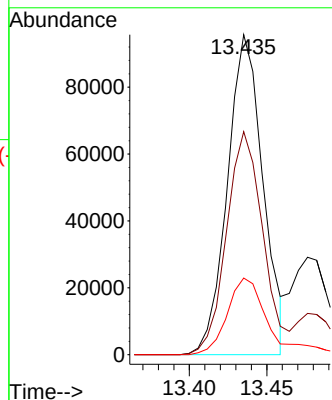
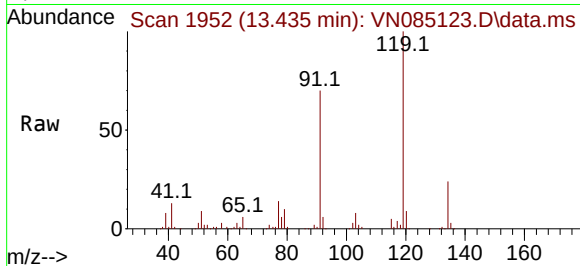




#79
tert-butylbenzene
Concen: 22.471 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

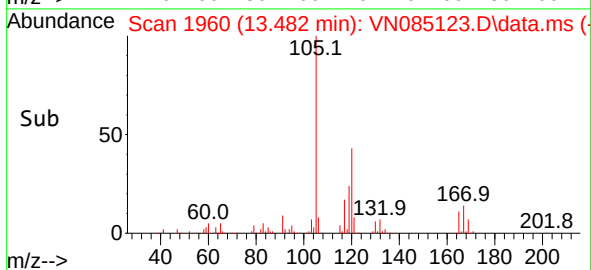
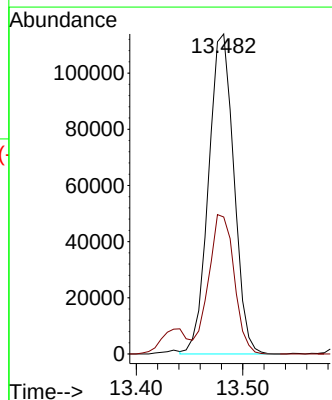
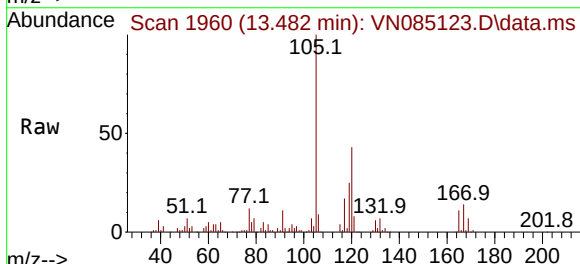
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

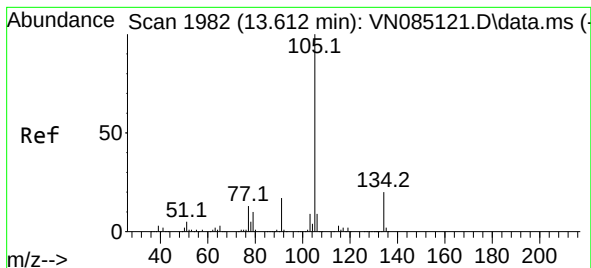
Tgt Ion:119 Resp: 152793
Ion Ratio Lower Upper
119 100
91 71.6 0.0 139.2
134 25.0 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 22.992 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:105 Resp: 188016
Ion Ratio Lower Upper
105 100
120 43.7 0.0 87.4





#81

sec-Butylbenzene

Concen: 22.925 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

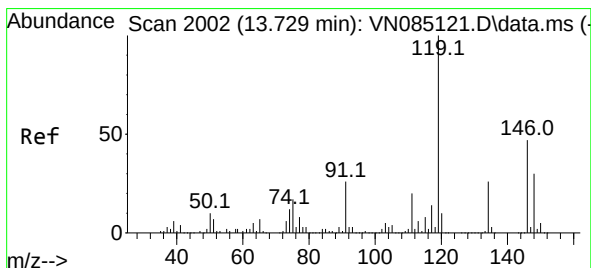
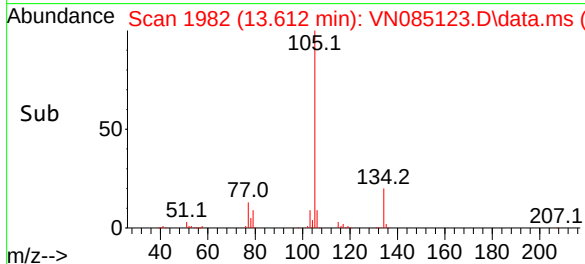
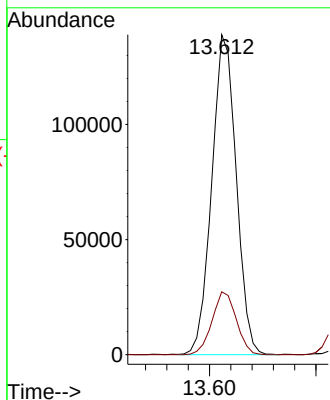
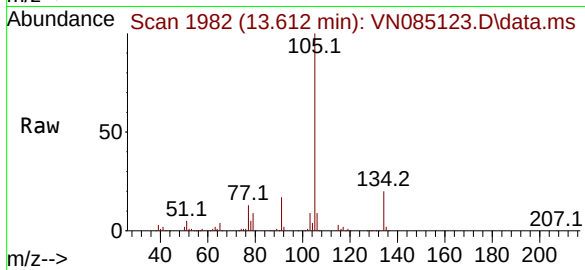
ICVVN120624

Tgt Ion:105 Resp: 221463

Ion Ratio Lower Upper

105 100

134 19.4 0.0 38.0



#82

p-Isopropyltoluene

Concen: 22.702 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

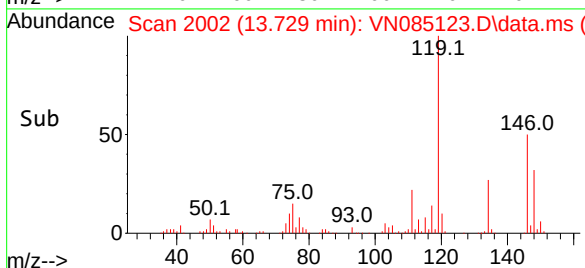
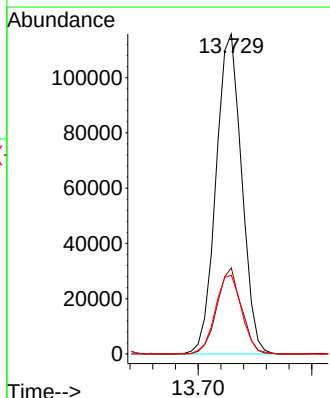
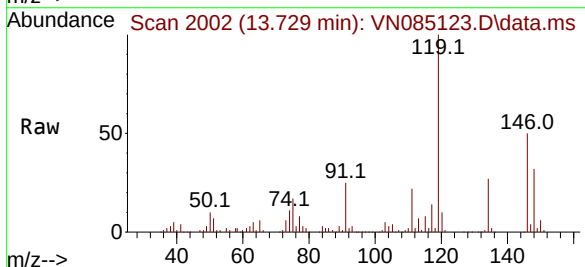
Tgt Ion:119 Resp: 181815

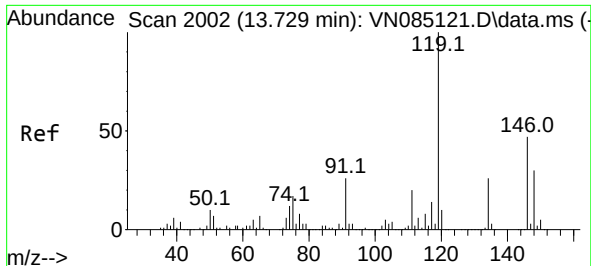
Ion Ratio Lower Upper

119 100

134 25.6 0.0 51.6

91 25.5 0.0 50.4

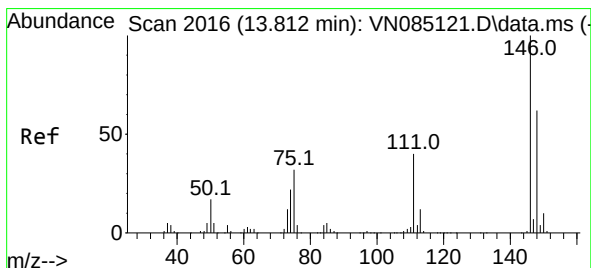
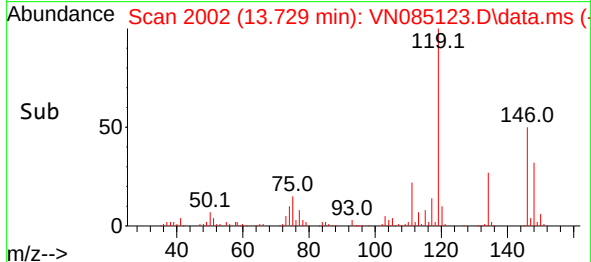
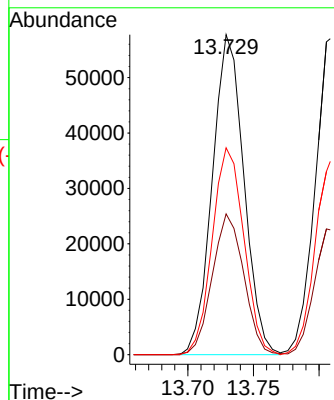
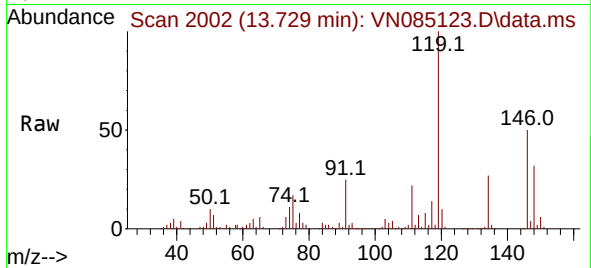




#83
1,3-Dichlorobenzene
Concen: 21.763 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

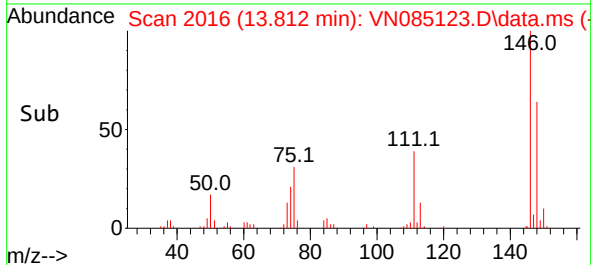
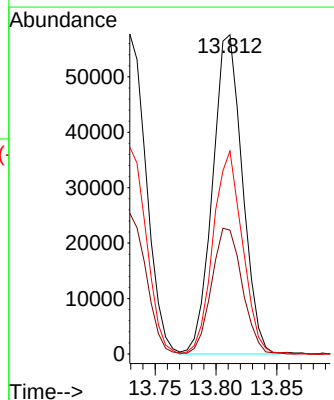
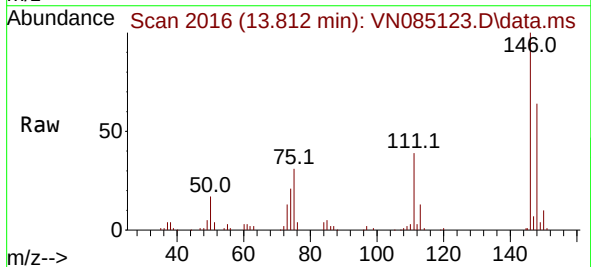
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

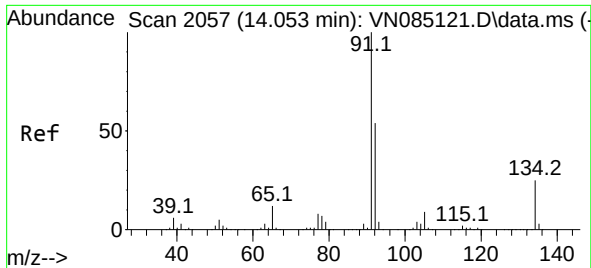
Tgt Ion:146 Resp: 96640
Ion Ratio Lower Upper
146 100
111 44.0 21.1 63.3
148 64.8 31.8 95.3



#84
1,4-Dichlorobenzene
Concen: 22.651 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:146 Resp: 98028
Ion Ratio Lower Upper
146 100
111 39.8 20.1 60.3
148 62.6 31.6 94.7

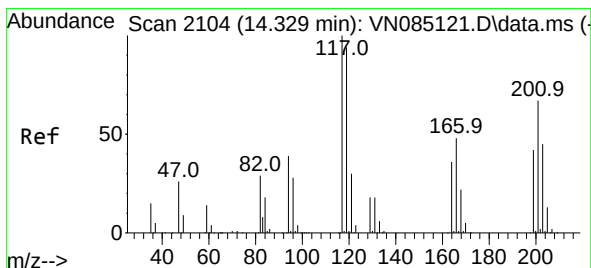
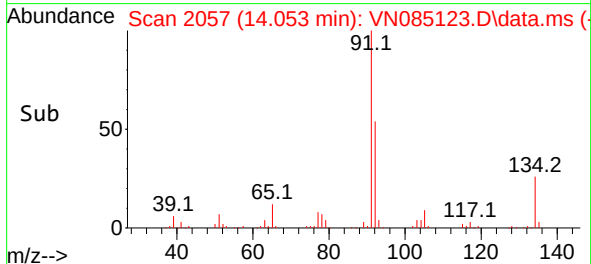
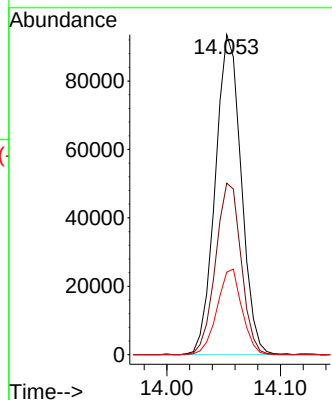
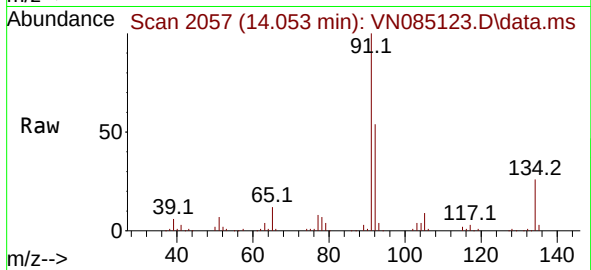




#85
n-Butylbenzene
Concen: 22.118 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

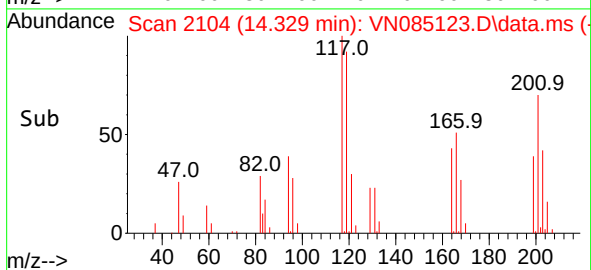
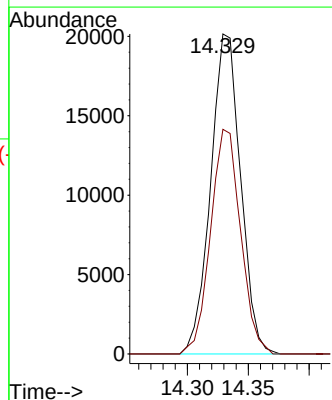
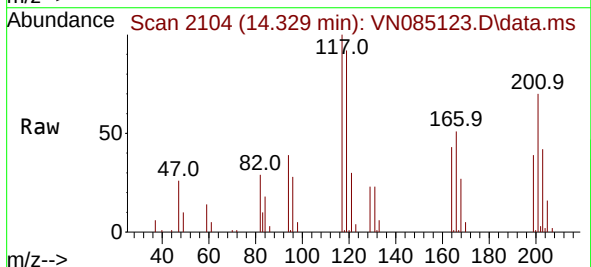
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

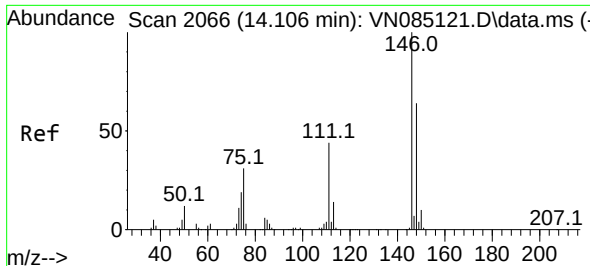
Tgt Ion: 91 Resp: 148587
Ion Ratio Lower Upper
91 100
92 52.9 0.0 104.0
134 25.6 0.0 49.2



#86
Hexachloroethane
Concen: 21.642 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion: 117 Resp: 34505
Ion Ratio Lower Upper
117 100
201 70.3 34.1 102.3

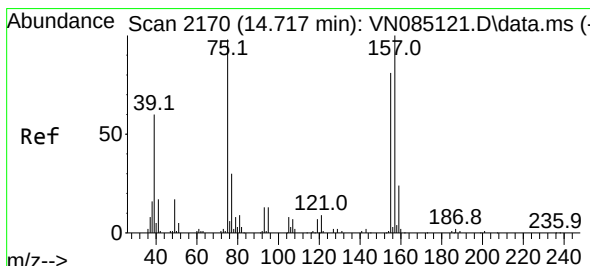
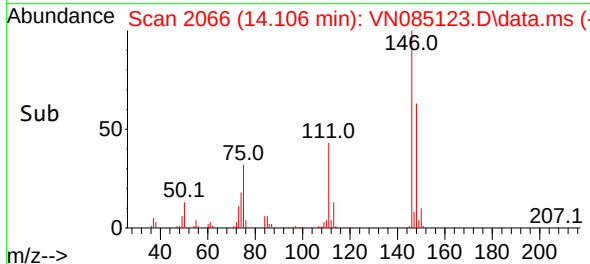
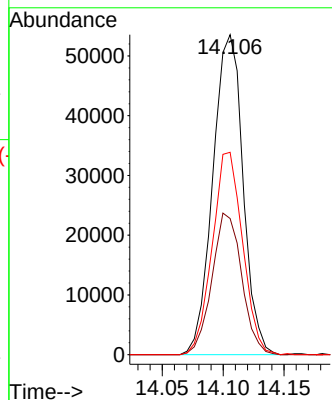
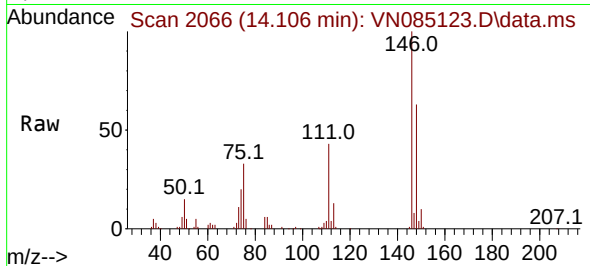




#87
1,2-Dichlorobenzene
Concen: 22.016 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

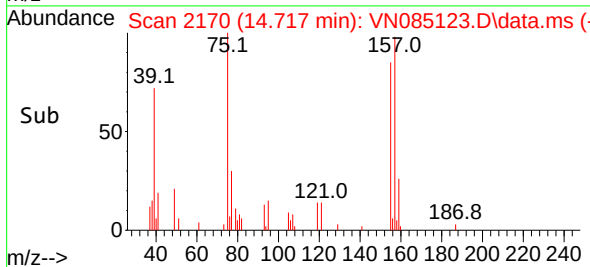
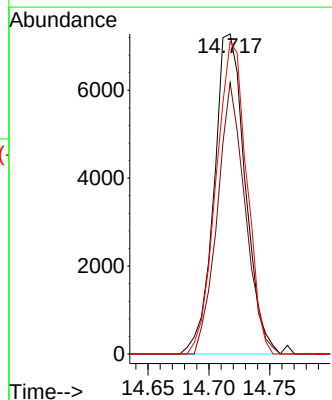
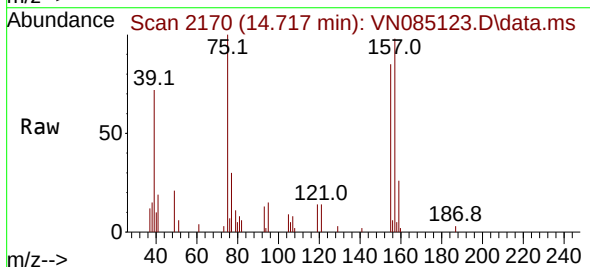
Instrument :
MSVOA_N
ClientSampleId :
ICVVN120624

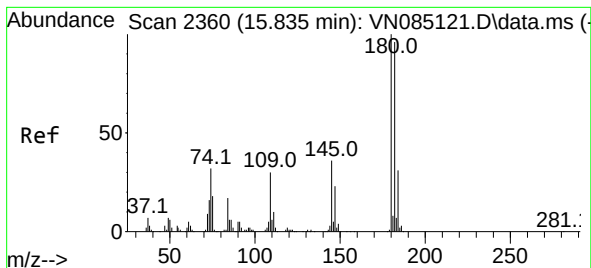
Tgt Ion:	146	Resp:	92278
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.9	65.7
148	63.5	32.4	97.0



#88
1,2-Dibromo-3-Chloropropane
Concen: 22.003 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085123.D
Acq: 06 Dec 2024 12:28

Tgt Ion:	75	Resp:	12928
Ion	Ratio	Lower	Upper
75	100		
155	76.2	62.1	93.1
157	96.4	79.3	118.9





#89

1,2,4-Trichlorobenzene

Concen: 23.026 ug/l

RT: 15.835 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

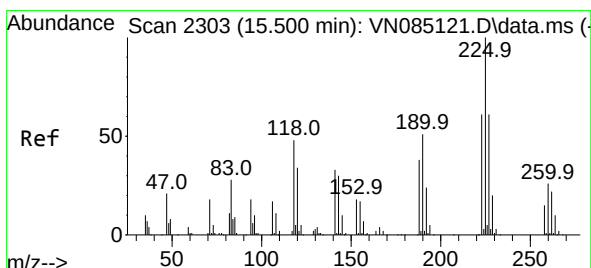
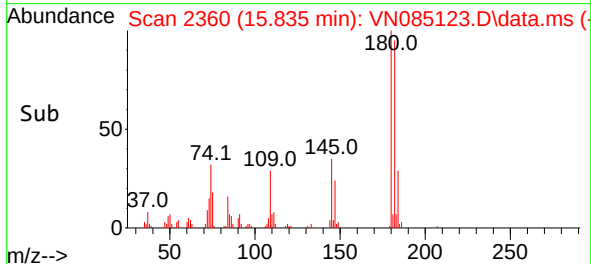
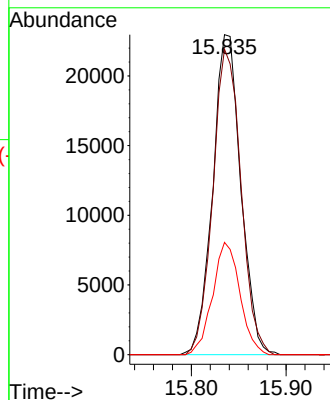
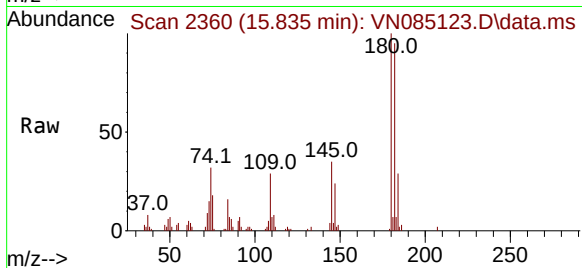
Tgt Ion:180 Resp: 47265

Ion Ratio Lower Upper

180 100

182 95.7 74.0 111.0

145 34.2 28.6 43.0



#90

Hexachlorobutadiene

Concen: 23.121 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

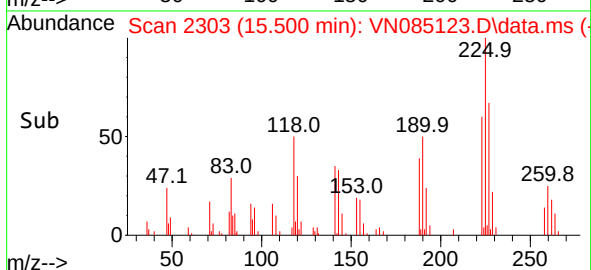
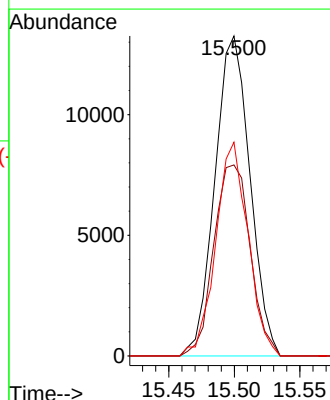
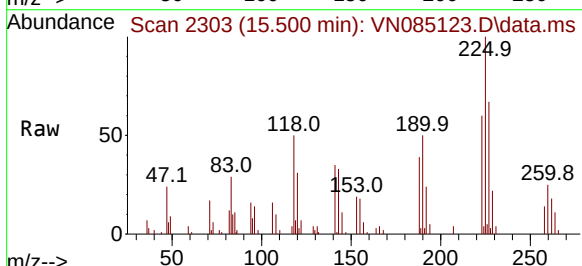
Tgt Ion:225 Resp: 24662

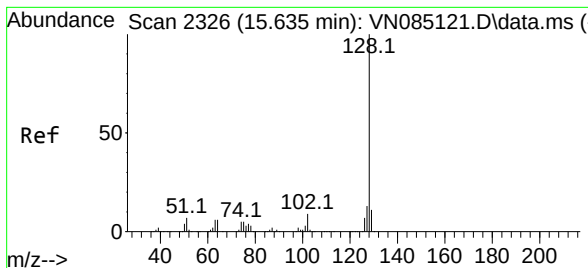
Ion Ratio Lower Upper

225 100

223 62.1 0.0 121.8

227 61.4 0.0 126.8





#91

Naphthalene

Concen: 22.886 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN120624

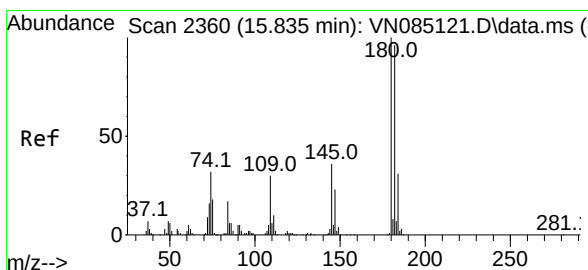
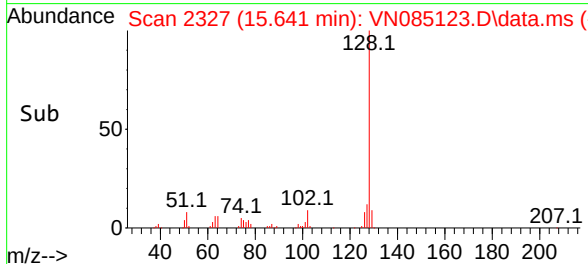
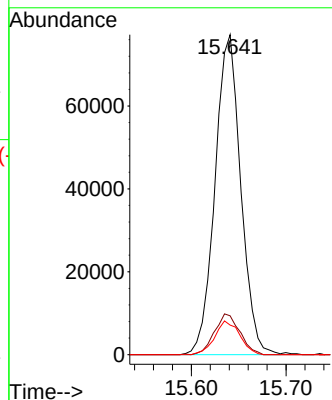
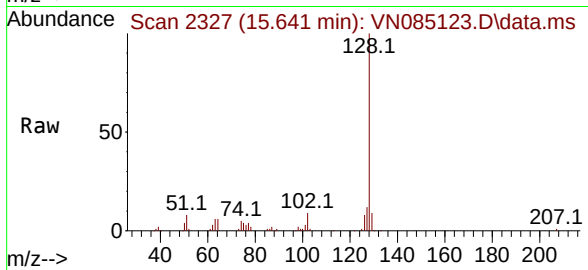
Tgt Ion:128 Resp: 145950

Ion Ratio Lower Upper

128 100

127 12.6 11.0 16.4

129 10.3 8.7 13.1



#92

1,2,3-Trichlorobenzene

Concen: 23.026 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085123.D

Acq: 06 Dec 2024 12:28

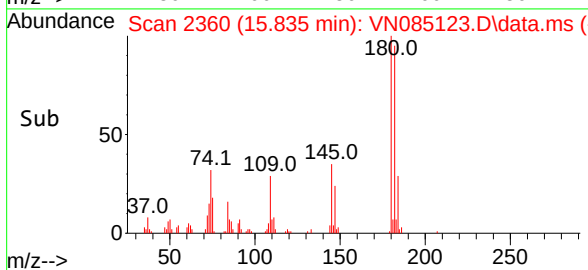
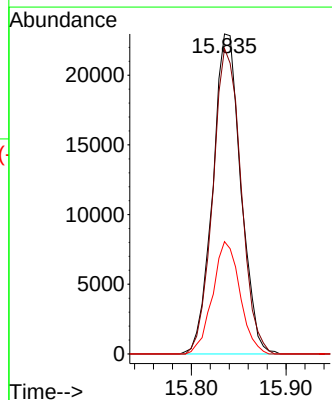
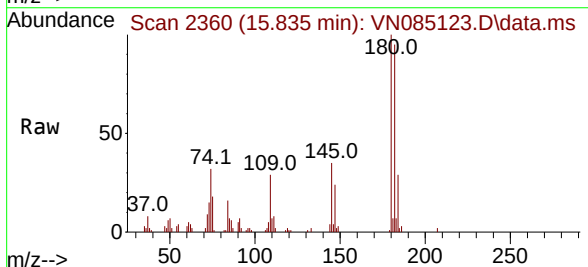
Tgt Ion:180 Resp: 47265

Ion Ratio Lower Upper

180 100

182 95.7 0.0 185.0

145 34.2 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33412	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	185962	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	170233	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80133	30.226	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.767%			
60) 4-Bromofluorobenzene	12.847	95	82875	29.423	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.067%			
63) Toluene-d8	10.565	98	235545	29.497	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	56261	21.047	ug/l	99
3) Chloromethane	2.359	50	49600	20.963	ug/l	97
4) Vinyl Chloride	2.512	62	50136	20.717	ug/l	97
5) Bromomethane	2.965	94	31223	20.321	ug/l	96
6) Chloroethane	3.124	64	32014	21.532	ug/l	92
7) Trichlorofluoromethane	3.506	101	82951	20.940	ug/l	100
8) Diethyl Ether	3.959	74	25301	20.165	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	44657	20.159	ug/l	99
10) 1,1-Dichloroethene	4.342	96	41142	20.219	ug/l	99
11) Methyl Iodide	4.595	142	48050	17.027	ug/l	96
12) Methyl Acetate	5.018	43	46842	19.513	ug/l	98
13) Acrolein	4.177	56	26169	75.017	ug/l	96
14) Acrylonitrile	5.712	53	94996	95.305	ug/l	98
15) Acetone	4.424	58	28736	106.386	ug/l	96
16) Carbon Disulfide	4.706	76	122618	20.161	ug/l	99
17) Allyl chloride	5.024	41	59479	20.428	ug/l	91
18) Methylene Chloride	5.277	84	45057	19.515	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	42471	20.081	ug/l	92
20) Diisopropyl ether	6.665	45	131789	20.625	ug/l	96
21) 1,1-Dichloroethane	6.565	63	79692	20.207	ug/l #	96
22) cis-1,2-Dichloroethene	7.477	96	49862	20.511	ug/l	99
23) tert-Butyl Alcohol	5.518	59	32619	91.223	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	130198	20.480	ug/l #	75
25) Chloroform	7.959	83	84820	20.530	ug/l	93
26) Cyclohexane	8.253	56	65168	20.069	ug/l #	95
29) 1,1-Dichloropropene	8.365	75	57776	19.254	ug/l	99
30) 2-Butanone	7.477	43	130116	94.489	ug/l	98
31) 2,2-Dichloropropane	7.488	77	76289	19.826	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	78244	19.264	ug/l	98
33) Carbon Tetrachloride	8.359	117	69225	18.888	ug/l	99
34) Benzene	8.600	78	181426	19.246	ug/l #	94
35) Methacrylonitrile	7.771	41	28129	18.152	ug/l	96
36) 1,2-Dichloroethane	8.665	62	62153	19.368	ug/l	99
37) Trichloroethene	9.347	130	44782	19.949	ug/l	89
38) Methylcyclohexane	9.600	83	61994	19.000	ug/l	97
39) 1,2-Dichloropropane	9.618	63	43708	19.143	ug/l	98
40) Dibromomethane	9.706	93	31562	19.271	ug/l	98
41) Bromodichloromethane	9.882	83	67723	19.343	ug/l	97
42) Vinyl Acetate	6.600	43	471771	97.906	ug/l	99

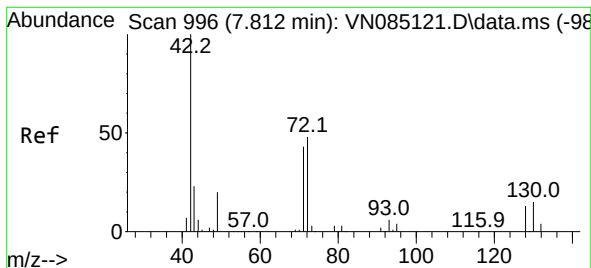
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 Data File : VN085207.D
 Acq On : 16 Dec 2024 09:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Dec 16 12:21:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	49499	18.066	ug/l	96
44) Isopropyl Acetate	8.682	43	89011	18.694	ug/l	100
45) 1,4-Dioxane	9.688	88	15602	392.939	ug/l	95
46) Methyl methacrylate	9.677	41	40601	18.632	ug/l	97
47) n-amyl Acetate	12.494	43	73556	18.361	ug/l	96
48) t-1,3-Dichloropropene	10.829	75	65995	19.202	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	73124	19.544	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	42618	19.311	ug/l	96
51) Ethyl methacrylate	10.871	69	62332	18.569	ug/l	96
52) 1,3-Dichloropropane	11.159	76	70887	19.192	ug/l	99
53) Dibromochloromethane	11.359	129	51019	18.970	ug/l	97
54) 1,2-Dibromoethane	11.465	107	42506	19.116	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	122170	78.348	ug/l	99
56) Bromoform	12.570	173	33630	18.650	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	254378	91.560	ug/l	97
59) 2-Hexanone	11.194	43	198443	94.267	ug/l	98
61) Tetrachloroethene	11.100	164	40993	19.885	ug/l	89
62) Toluene	10.624	91	193265	19.467	ug/l	99
64) Chlorobenzene	11.888	112	119028	19.419	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	44343	19.379	ug/l	99
66) Ethyl Benzene	11.959	91	207827	19.728	ug/l	97
67) m/p-Xylenes	12.071	106	159560	39.379	ug/l	96
68) o-Xylene	12.394	106	76900	20.208	ug/l	97
69) Styrene	12.406	104	129131	19.998	ug/l	100
70) Isopropylbenzene	12.694	105	196429	20.013	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	56150	18.796	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	72767	24.658	ug/l	79
73) Bromobenzene	12.976	156	48280	19.638	ug/l	98
74) n-propylbenzene	13.029	91	229571	19.456	ug/l	99
75) 2-Chlorotoluene	13.123	91	143192	19.627	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	167597	19.931	ug/l	99
77) t-1,4-Dichloro-2-butene	12.729	75	20254	18.888	ug/l	90
78) 4-Chlorotoluene	13.217	91	144822	19.557	ug/l	99
79) tert-butylbenzene	13.435	119	137376	19.890	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	167722	20.193	ug/l	98
81) sec-Butylbenzene	13.612	105	191002	19.466	ug/l	98
82) p-Isopropyltoluene	13.723	119	161402	19.841	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	86373	19.150	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	85216	19.386	ug/l	99
85) n-Butylbenzene	14.053	91	132097	19.359	ug/l	98
86) Hexachloroethane	14.335	117	31250	19.297	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	82331	19.338	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10161	17.026	ug/l	95
89) 1,2,4-Trichlorobenzene	15.835	180	40011	19.190	ug/l	96
90) Hexachlorobutadiene	15.494	225	21664	19.995	ug/l	99
91) Naphthalene	15.635	128	120498	18.602	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	40011	19.190	ug/l	96

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.812 min Scan# 996

Delta R.T. -0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

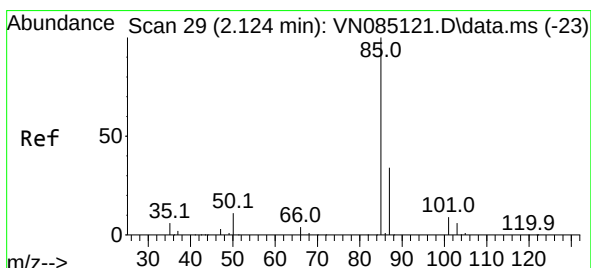
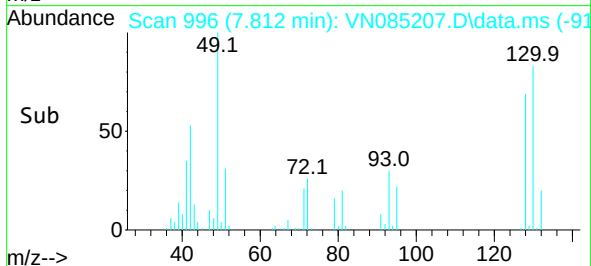
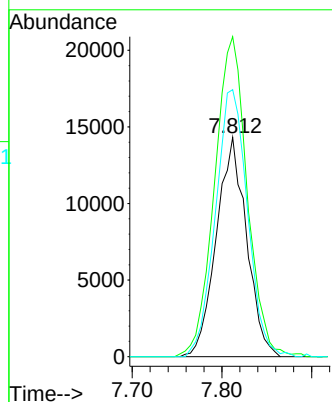
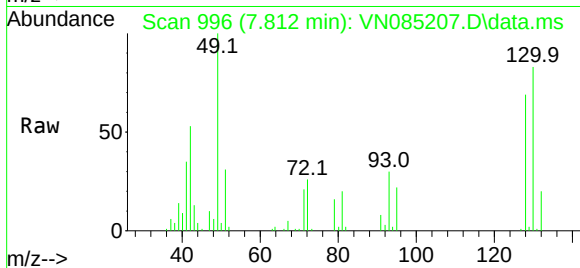
Tgt Ion:128 Resp: 33412

Ion Ratio Lower Upper

128 100

49 157.6 0.0 394.5

130 129.2 0.0 316.5



#2

Dichlorodifluoromethane

Concen: 21.047 ug/l

RT: 2.124 min Scan# 29

Delta R.T. 0.000 min

Lab File: VN085207.D

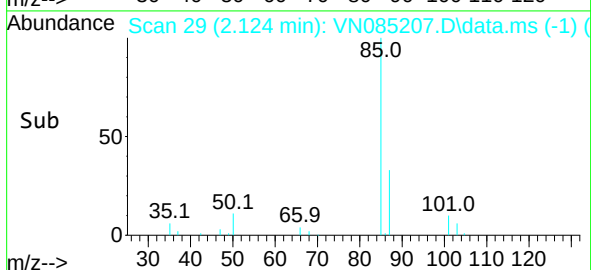
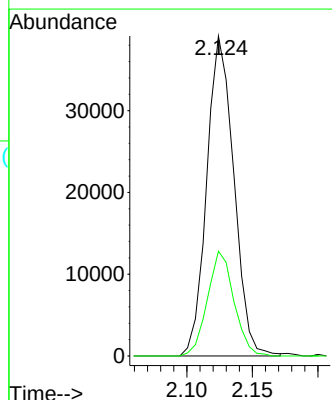
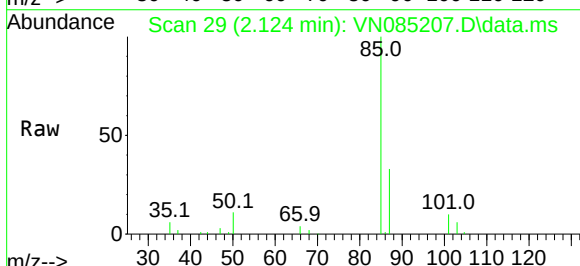
Acq: 16 Dec 2024 09:42

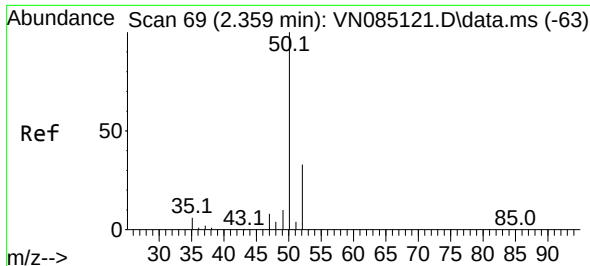
Tgt Ion: 85 Resp: 56261

Ion Ratio Lower Upper

85 100

87 32.8 16.8 50.3

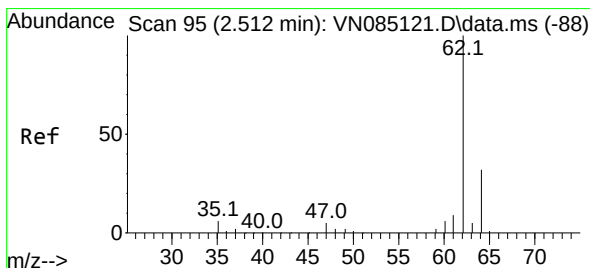
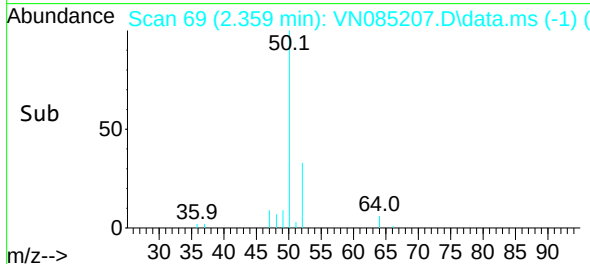
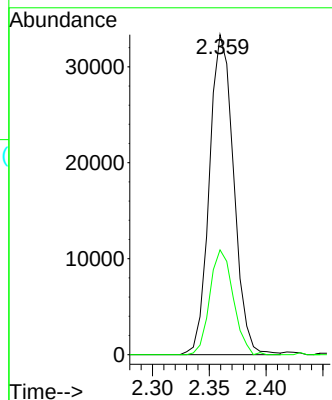
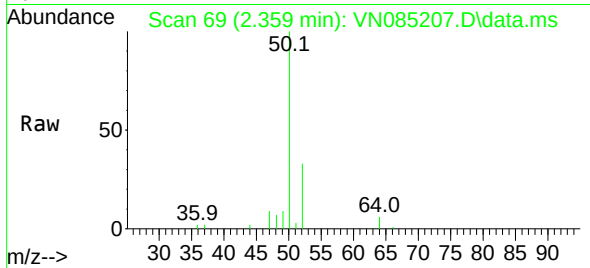




#3
Chloromethane
Concen: 20.963 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

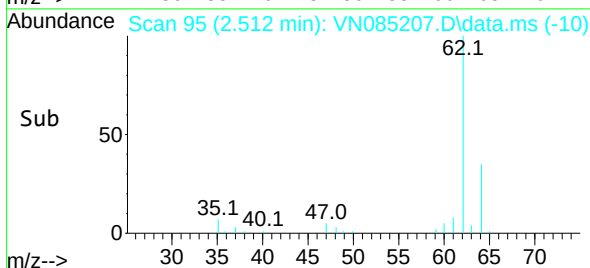
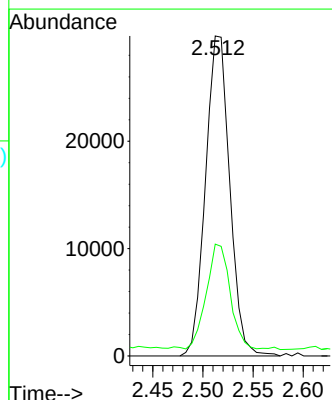
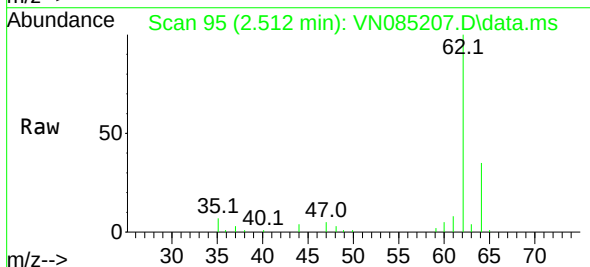
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

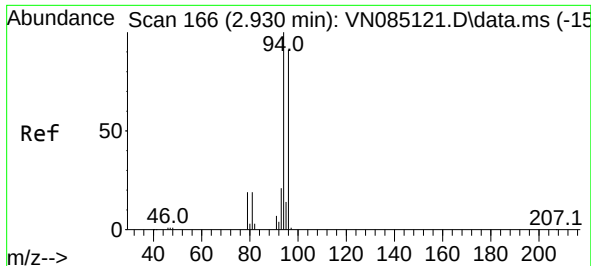
Tgt Ion: 50 Resp: 49600
Ion Ratio Lower Upper
50 100
52 32.8 25.0 37.4



#4
Vinyl Chloride
Concen: 20.717 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 62 Resp: 50136
Ion Ratio Lower Upper
62 100
64 32.9 24.9 37.3

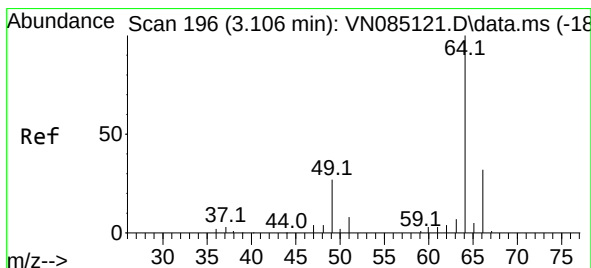
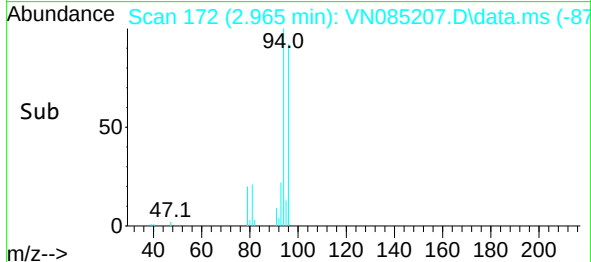
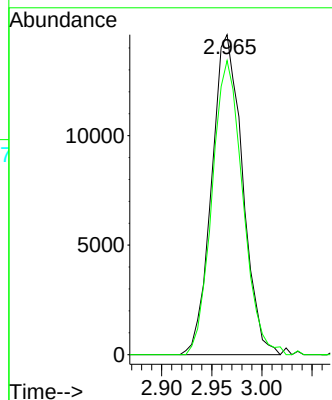
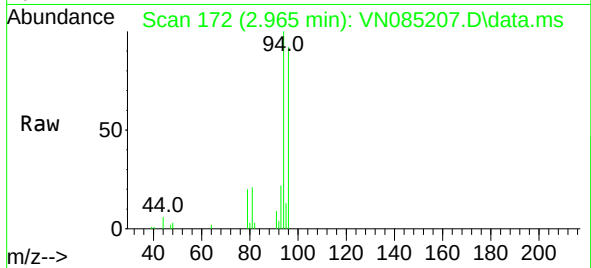




#5
Bromomethane
Concen: 20.321 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

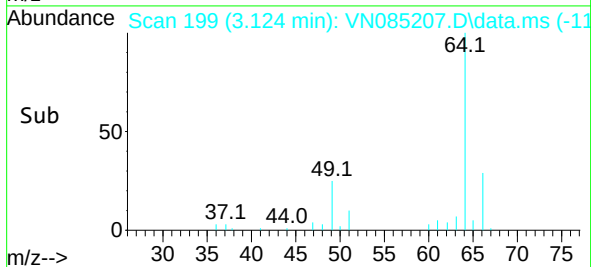
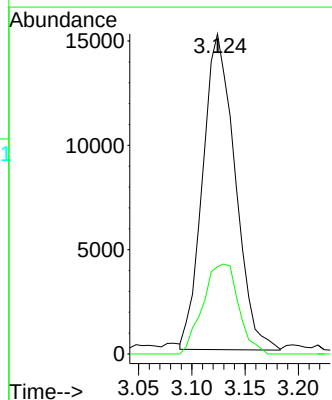
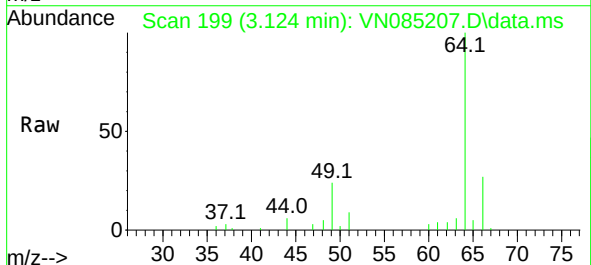
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

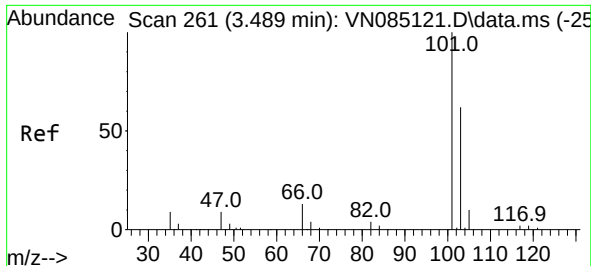
Tgt Ion: 94 Resp: 31223
Ion Ratio Lower Upper
94 100
96 91.9 76.2 114.4



#6
Chloroethane
Concen: 21.532 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 64 Resp: 32014
Ion Ratio Lower Upper
64 100
66 27.7 25.5 38.3

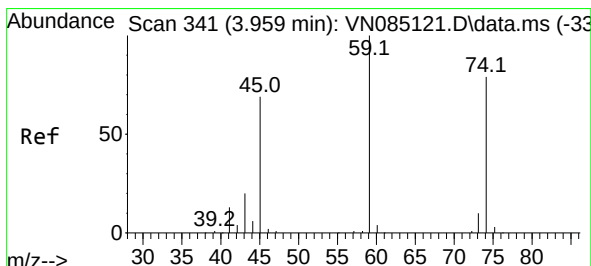
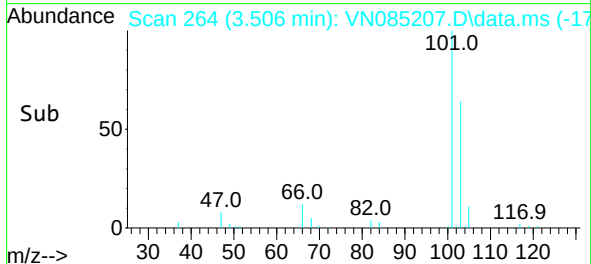
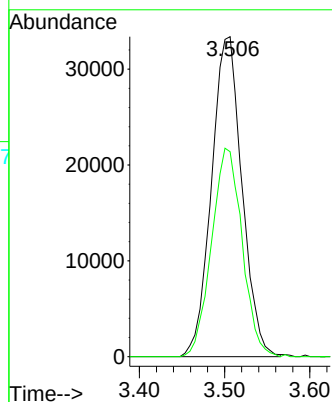
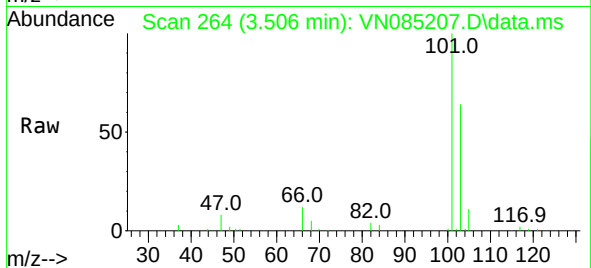




#7
Trichlorofluoromethane
Concen: 20.940 ug/l
RT: 3.506 min Scan# 264
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

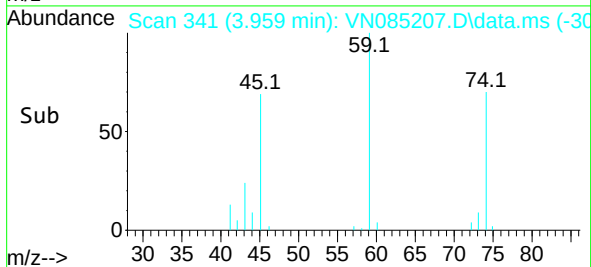
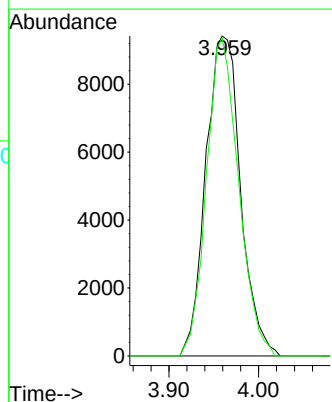
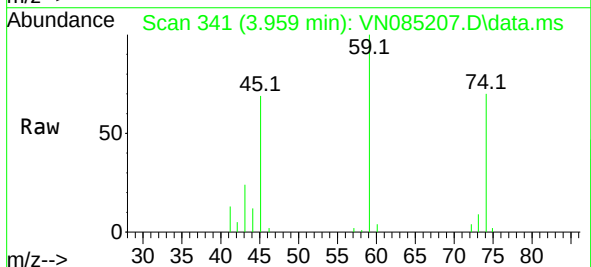
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

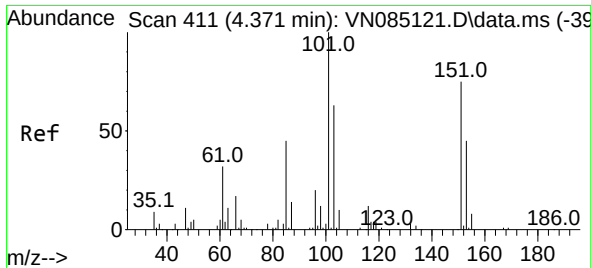
Tgt Ion:101 Resp: 82951
Ion Ratio Lower Upper
101 100
103 64.1 51.3 76.9



#8
Diethyl Ether
Concen: 20.165 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 74 Resp: 25301
Ion Ratio Lower Upper
74 100
45 92.2 18.6 167.8

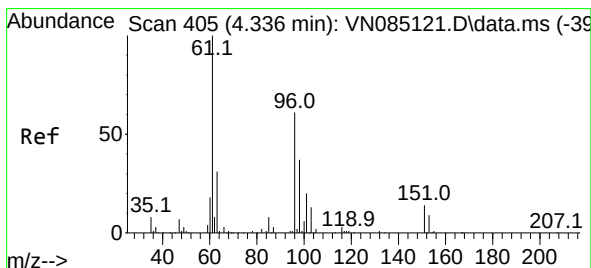
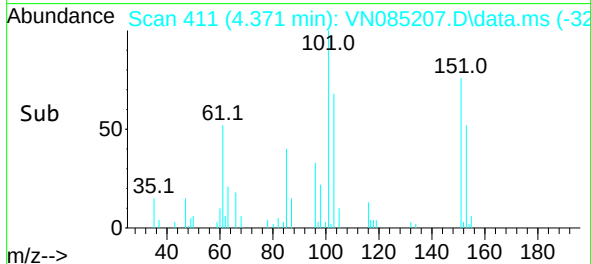
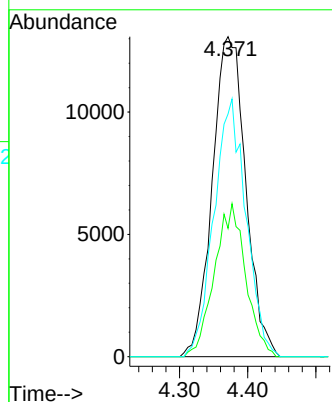
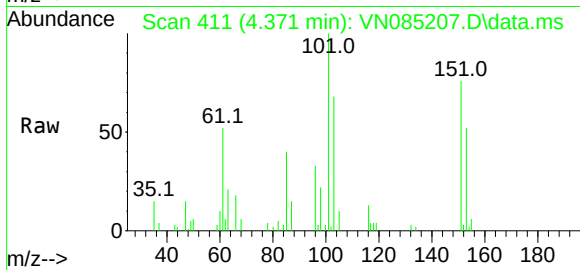




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.159 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

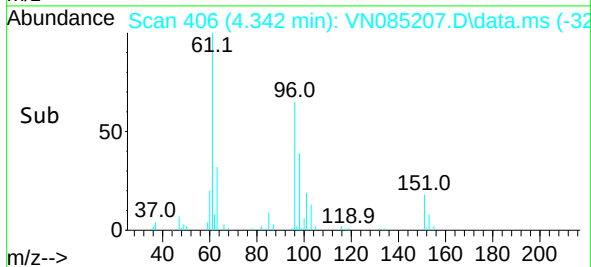
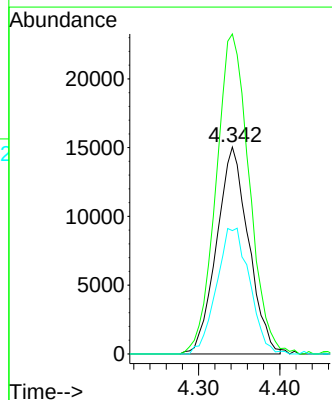
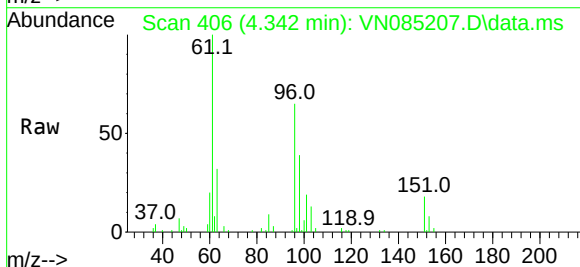
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

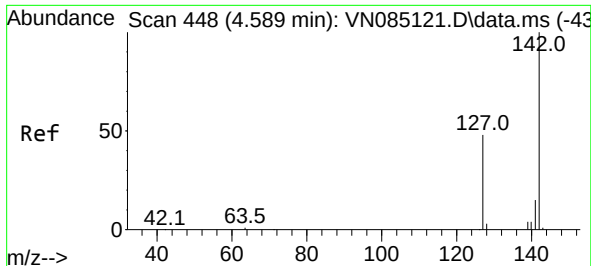
Tgt Ion:101 Resp: 44657
 Ion Ratio Lower Upper
 101 100
 85 44.5 0.0 88.6
 151 77.2 0.0 155.8



#10
 1,1-Dichloroethene
 Concen: 20.219 ug/l
 RT: 4.342 min Scan# 406
 Delta R.T. 0.000 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

Tgt Ion: 96 Resp: 41142
 Ion Ratio Lower Upper
 96 100
 61 154.7 123.0 184.4
 98 59.6 49.1 73.7

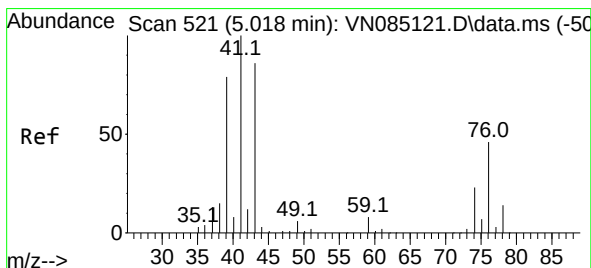
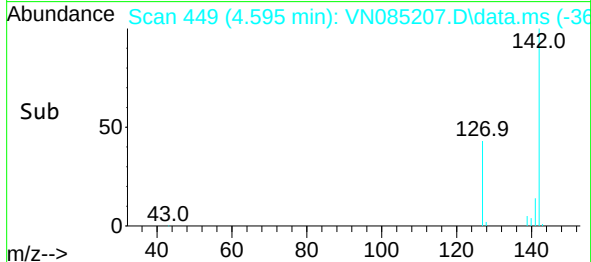
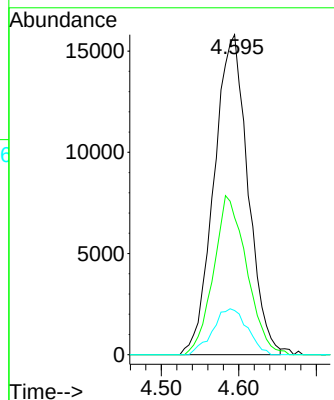
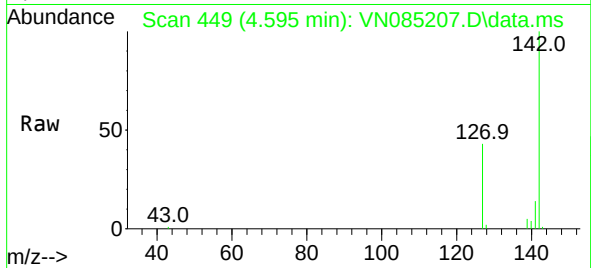




#11
Methyl Iodide
Concen: 17.027 ug/l
RT: 4.595 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

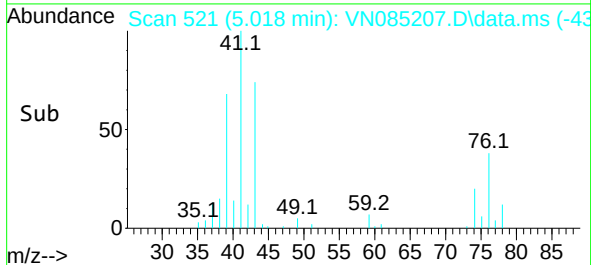
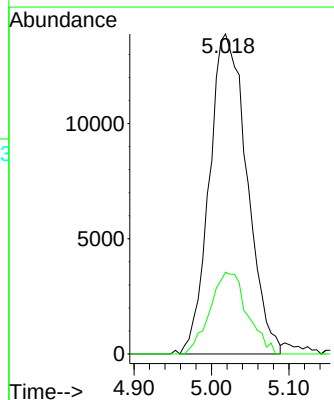
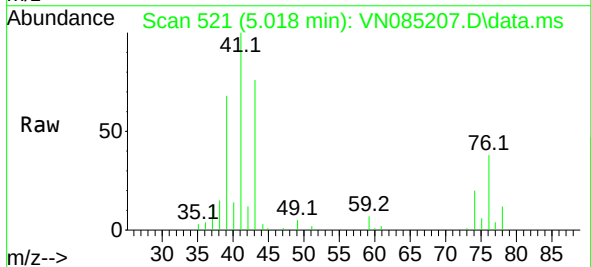
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

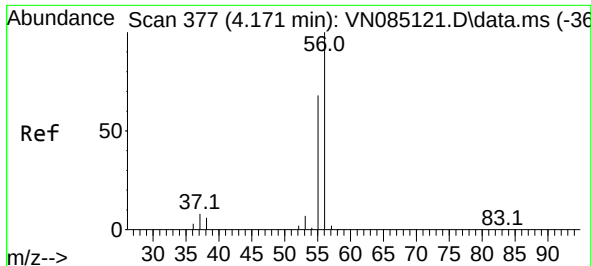
Tgt Ion:142 Resp: 48050
Ion Ratio Lower Upper
142 100
127 42.6 22.5 67.5
141 13.9 8.3 24.9



#12
Methyl Acetate
Concen: 19.513 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 43 Resp: 46842
Ion Ratio Lower Upper
43 100
74 25.9 19.8 29.6

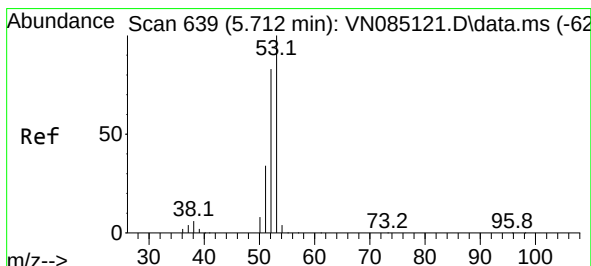
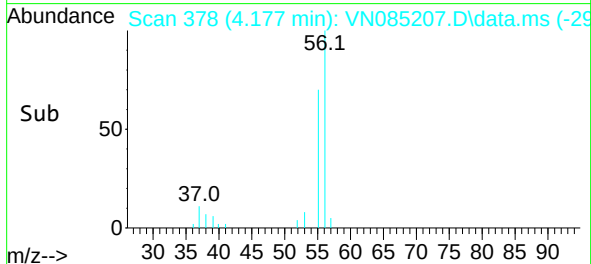
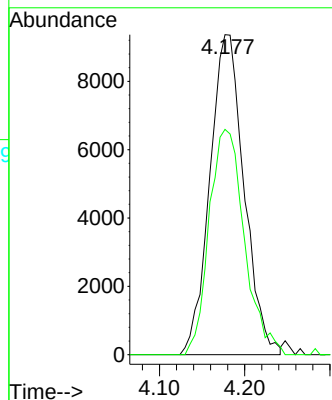
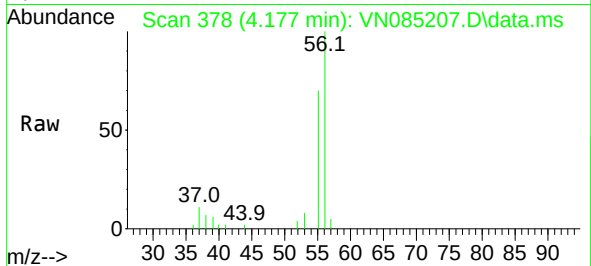




#13
Acrolein
Concen: 75.017 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

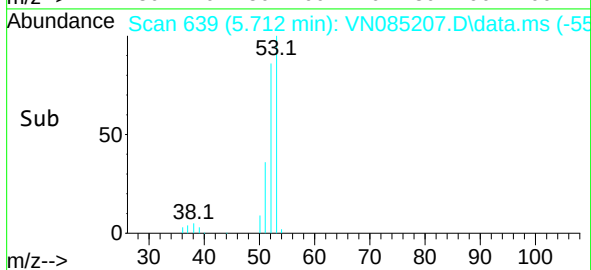
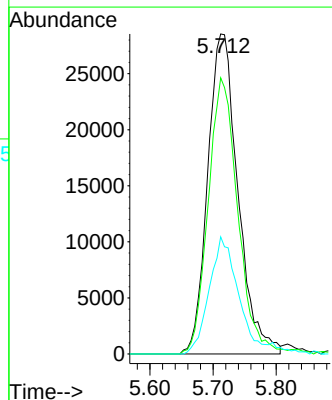
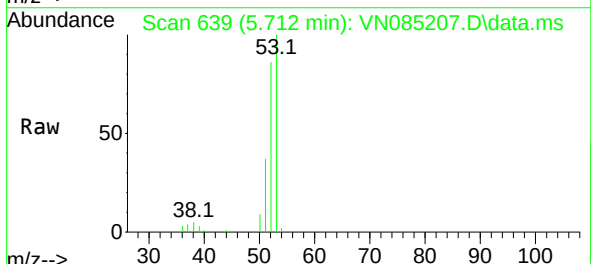
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

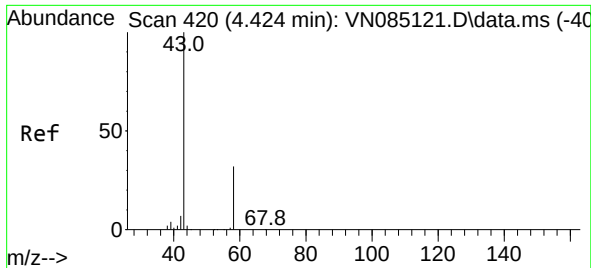
Tgt Ion: 56 Resp: 26169
Ion Ratio Lower Upper
56 100
55 70.7 59.4 89.0



#14
Acrylonitrile
Concen: 95.305 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 53 Resp: 94996
Ion Ratio Lower Upper
53 100
52 83.9 42.9 128.5
51 35.1 17.2 51.5





#15

Acetone

Concen: 106.386 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

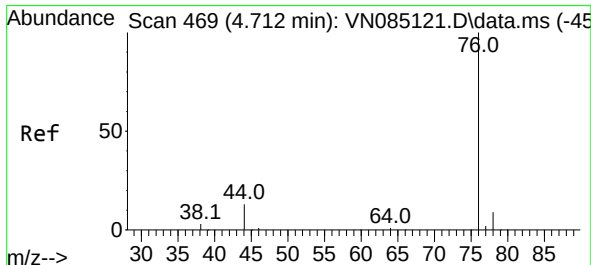
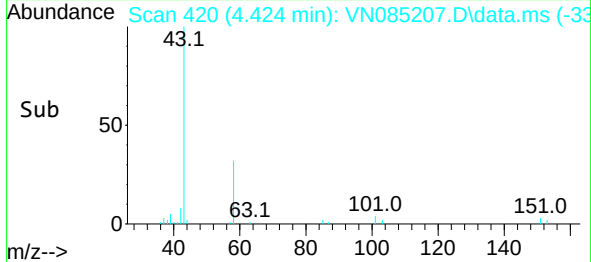
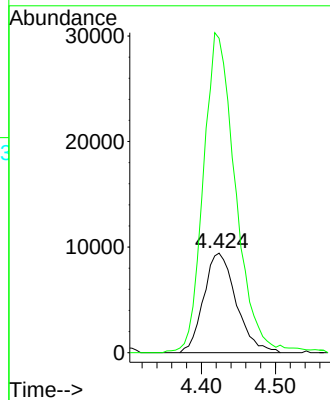
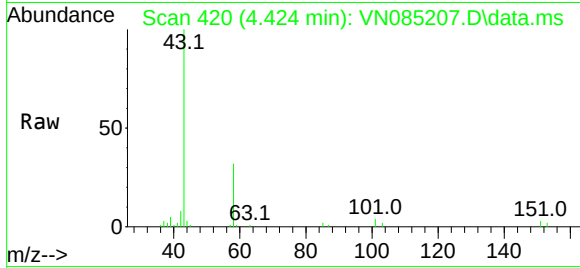
VSTDCCC020

Tgt Ion: 58 Resp: 28736

Ion Ratio Lower Upper

58 100

43 311.0 242.3 363.5



#16

Carbon Disulfide

Concen: 20.161 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN085207.D

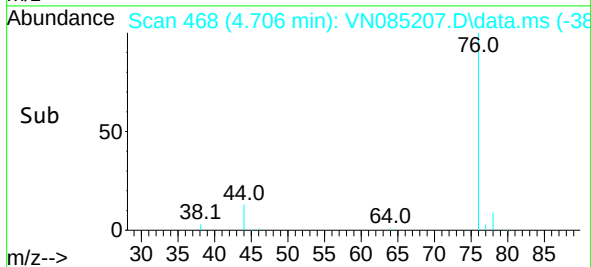
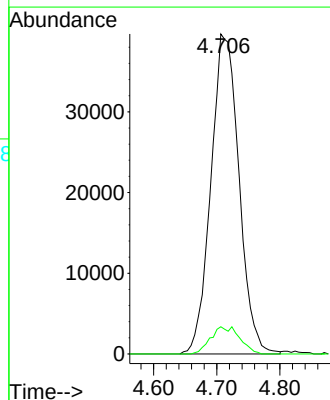
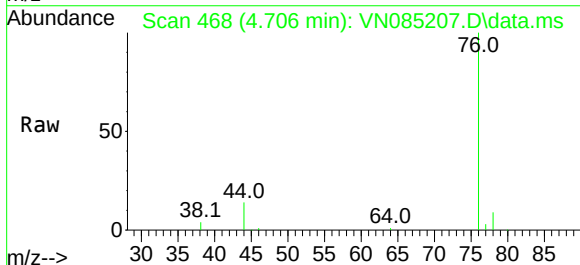
Acq: 16 Dec 2024 09:42

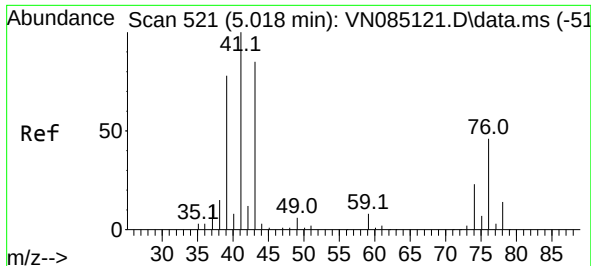
Tgt Ion: 76 Resp: 122618

Ion Ratio Lower Upper

76 100

78 8.5 7.1 10.7





#17

Allyl chloride

Concen: 20.428 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

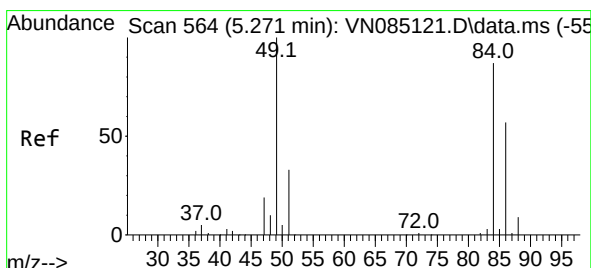
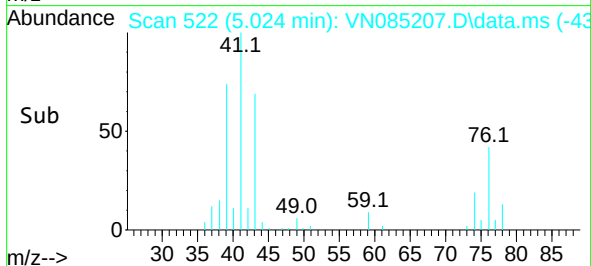
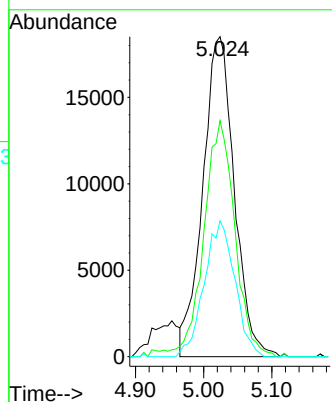
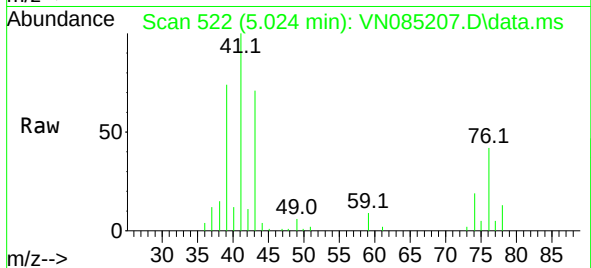
Tgt Ion: 41 Resp: 59479

Ion Ratio Lower Upper

41 100

39 73.7 32.0 96.2

76 42.4 20.2 60.5



#18

Methylene Chloride

Concen: 19.515 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Tgt Ion: 84 Resp: 45057

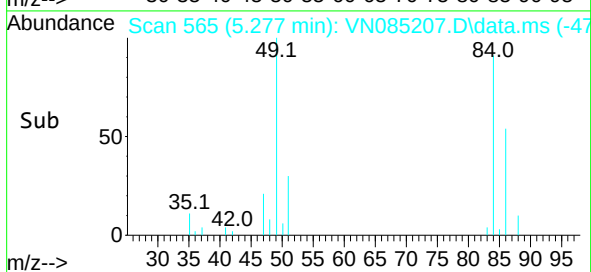
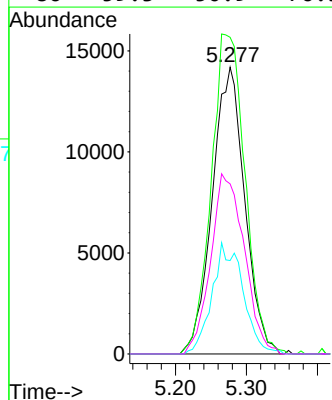
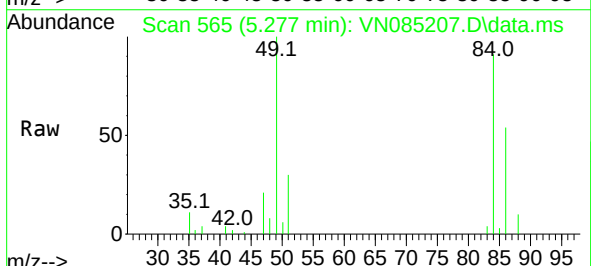
Ion Ratio Lower Upper

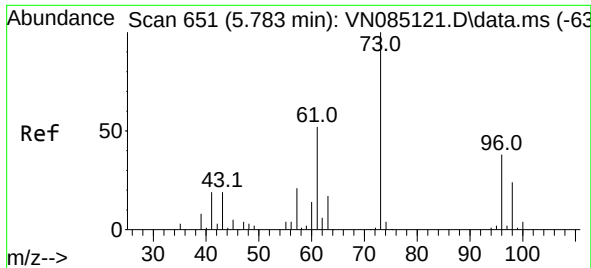
84 100

49 110.5 95.1 142.7

51 32.6 27.4 41.0

86 59.3 50.9 76.3

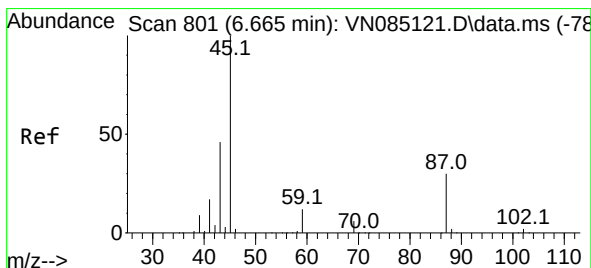
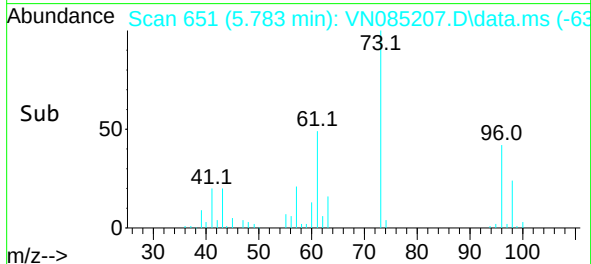
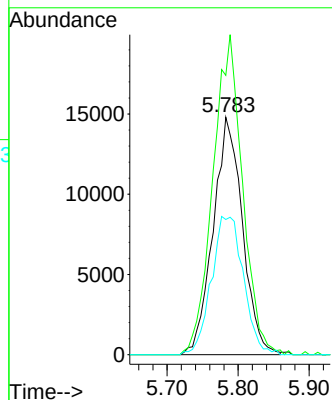
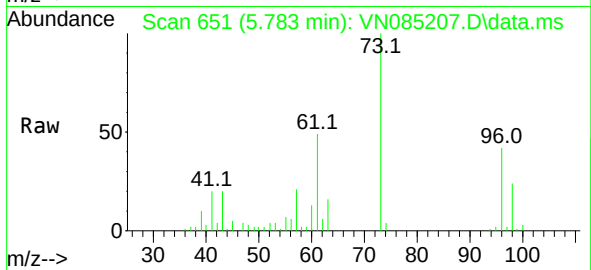




#19
trans-1,2-Dichloroethene
Concen: 20.081 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

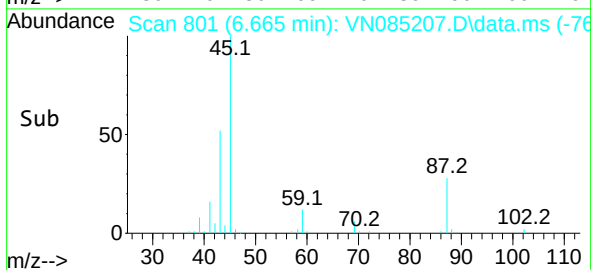
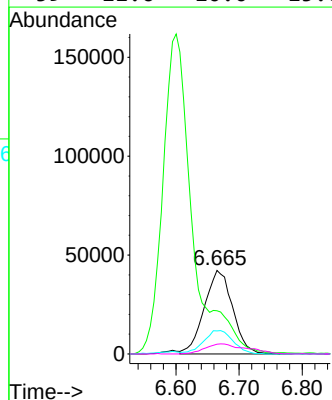
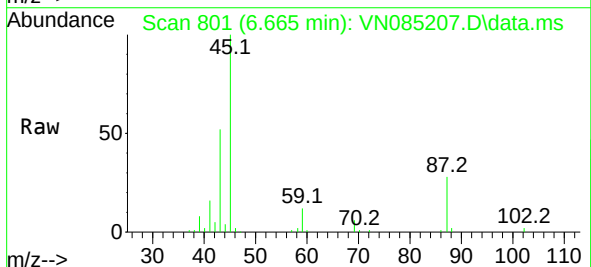
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

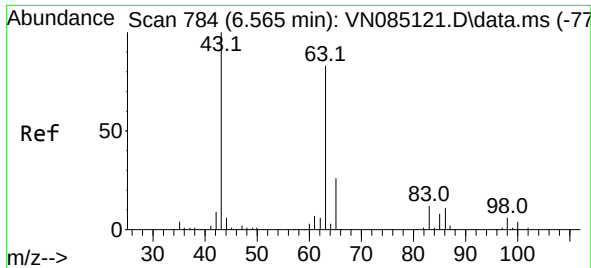
Tgt Ion: 96 Resp: 42471
Ion Ratio Lower Upper
96 100
61 117.7 100.4 150.6
98 56.9 52.6 79.0



#20
Diisopropyl ether
Concen: 20.625 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 45 Resp: 131789
Ion Ratio Lower Upper
45 100
43 50.1 41.9 62.9
87 27.7 24.1 36.1
59 11.6 10.0 15.0

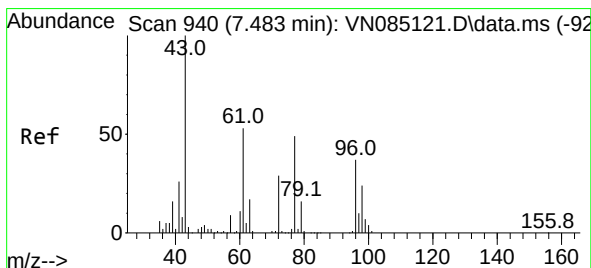
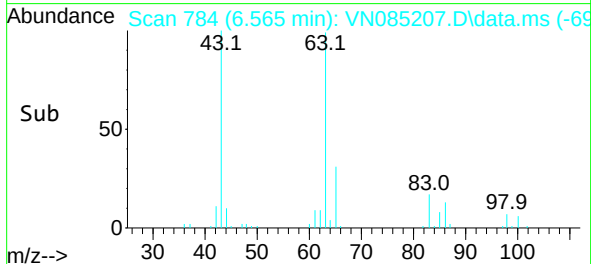
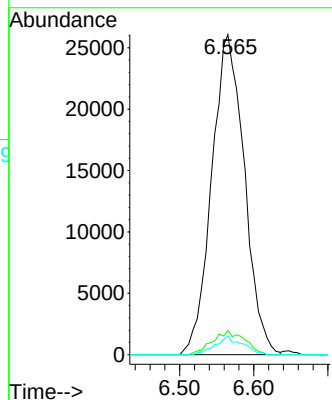
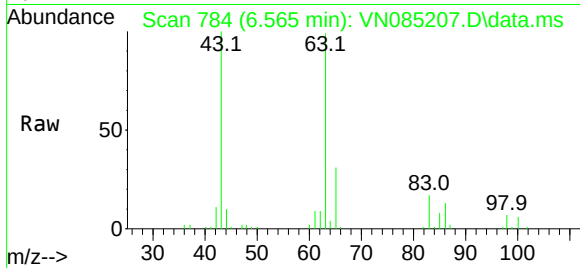




#21
1,1-Dichloroethane
Concen: 20.207 ug/l
RT: 6.565 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

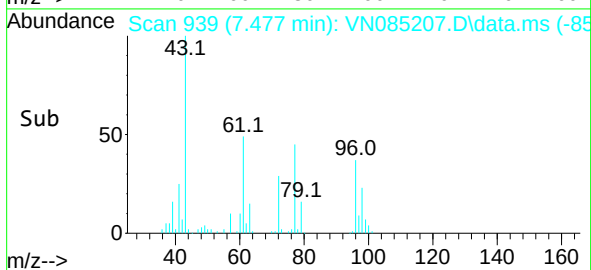
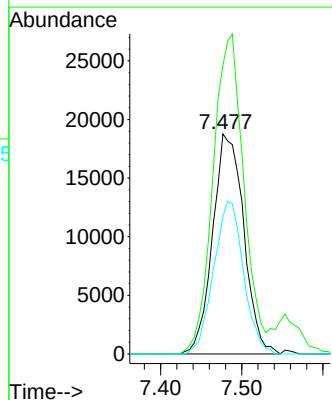
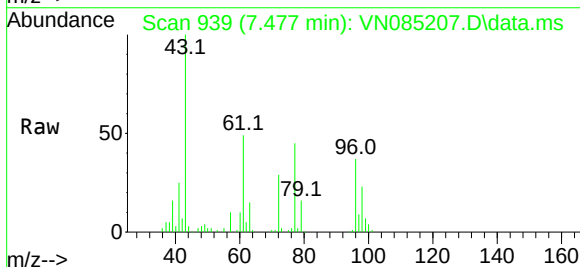
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

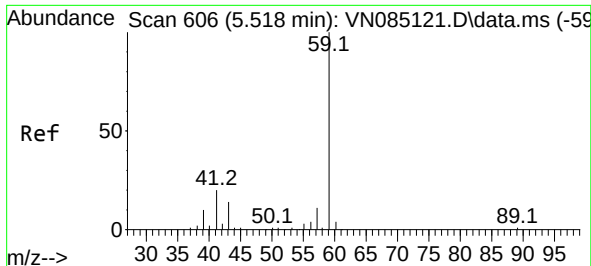
Tgt Ion: 63 Resp: 79692
Ion Ratio Lower Upper
63 100
98 7.5 3.5 10.4
100 5.8 1.6 4.8#



#22
cis-1,2-Dichloroethene
Concen: 20.511 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.012 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 96 Resp: 49862
Ion Ratio Lower Upper
96 100
61 143.7 115.9 173.9
98 66.7 51.8 77.8

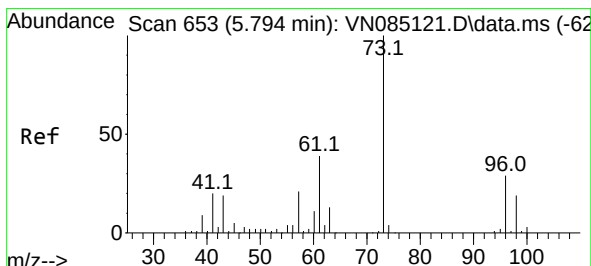
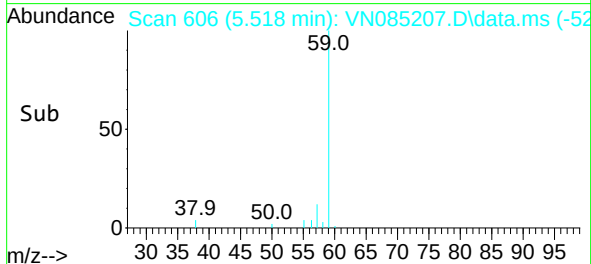
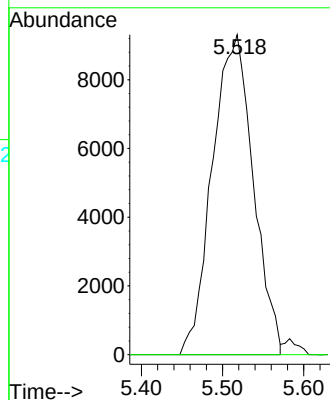
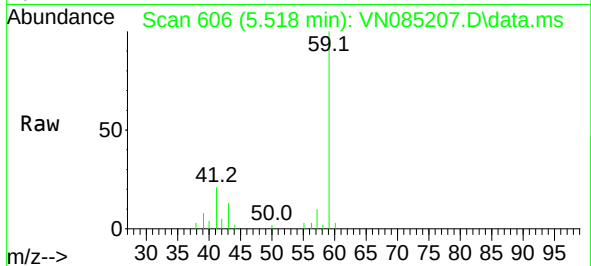




#23
tert-Butyl Alcohol
Concen: 91.223 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

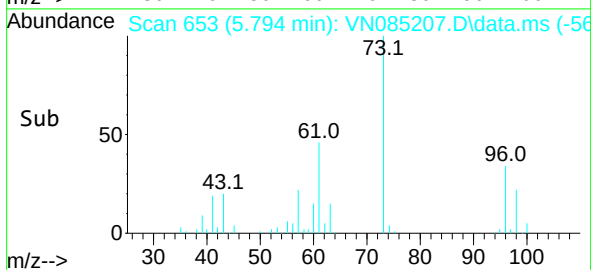
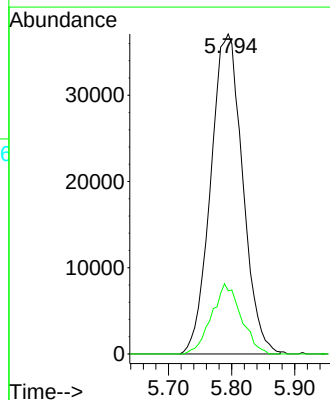
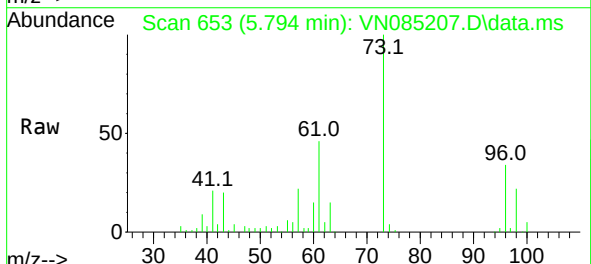
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

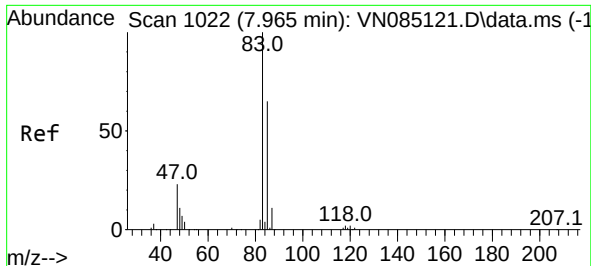
Tgt Ion: 59 Resp: 32619
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 20.480 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 73 Resp: 130198
Ion Ratio Lower Upper
73 100
43 20.3 8.7 13.1#

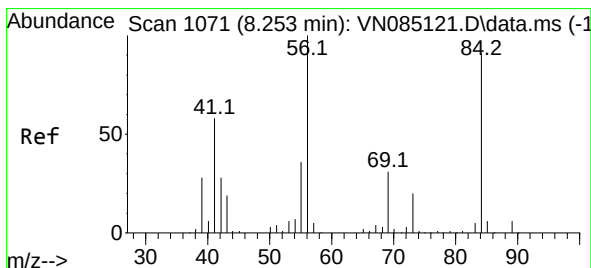
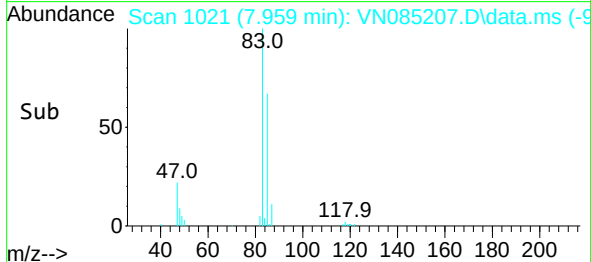
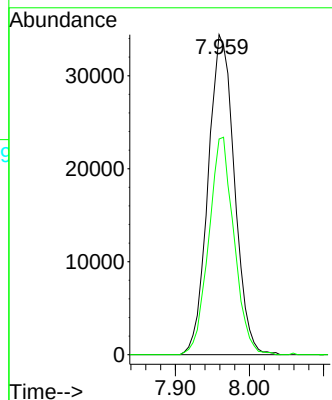
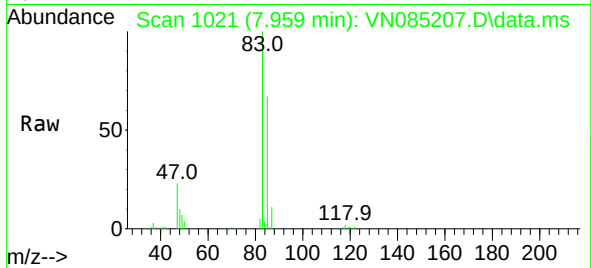




#25
Chloroform
Concen: 20.530 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

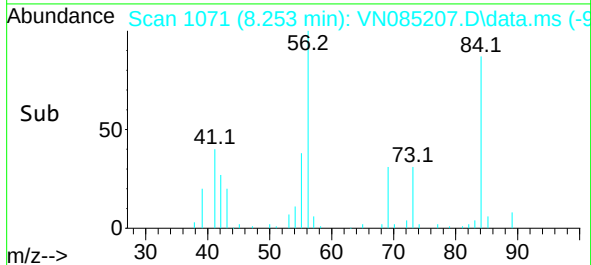
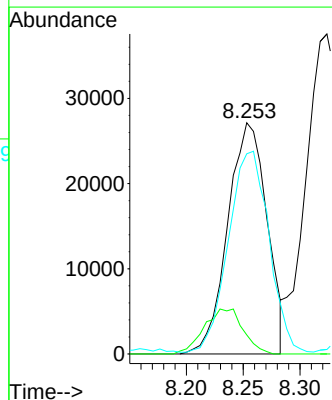
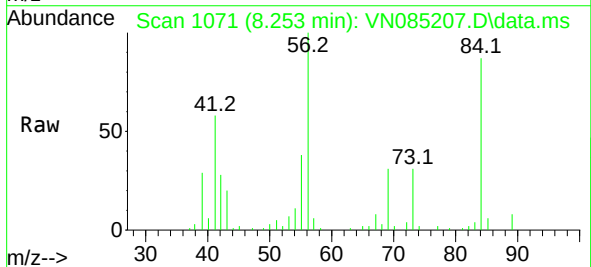
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

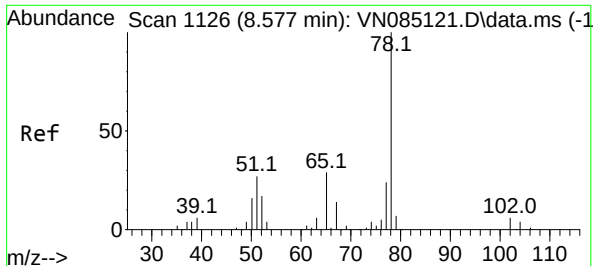
Tgt Ion: 83 Resp: 84820
Ion Ratio Lower Upper
83 100
85 67.4 49.4 74.0



#26
Cyclohexane
Concen: 20.069 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 56 Resp: 65168
Ion Ratio Lower Upper
56 100
89 19.4 19.5 29.3#
84 92.1 70.6 105.8

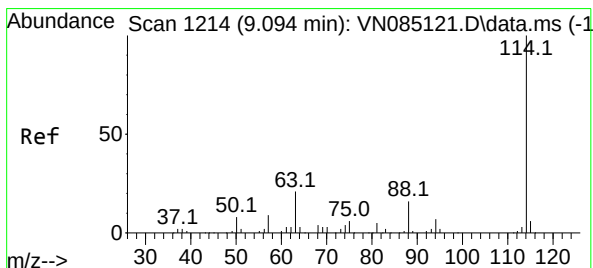
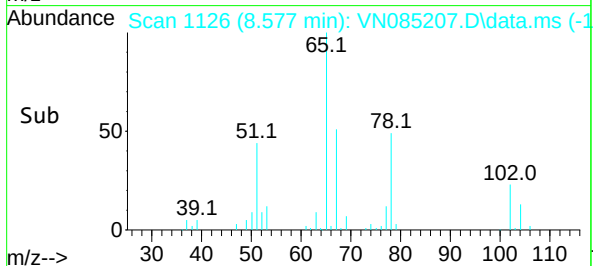
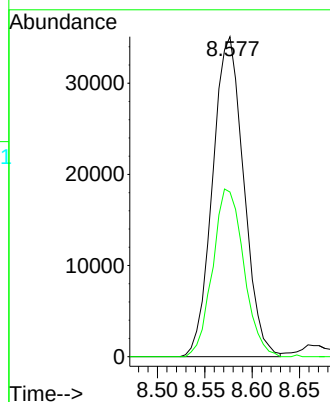
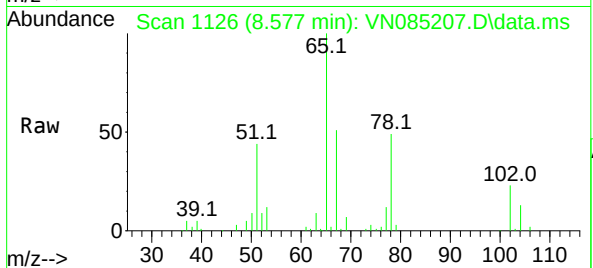




#27
1,2-Dichloroethane-d4
Concen: 30.226 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

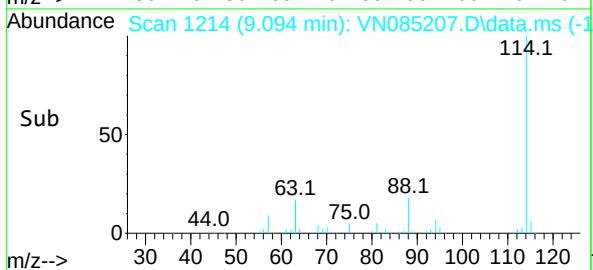
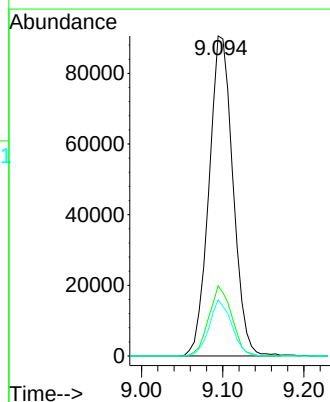
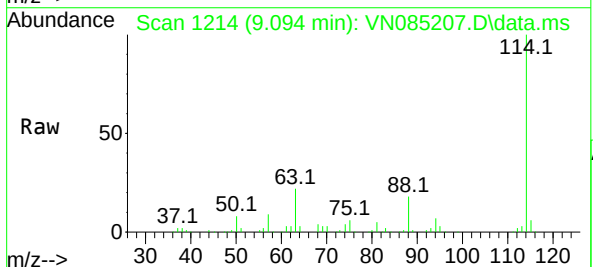
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

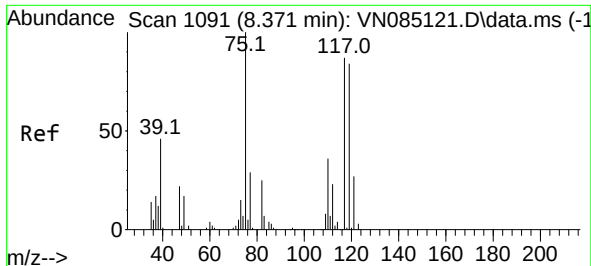
Tgt Ion: 65 Resp: 80133
Ion Ratio Lower Upper
65 100
67 52.4 39.9 59.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 114 Resp: 185962
Ion Ratio Lower Upper
114 100
63 21.0 16.2 24.2
88 16.4 12.5 18.7

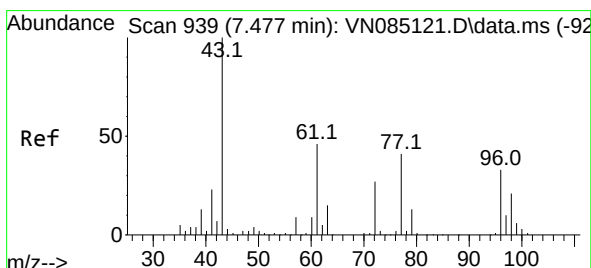
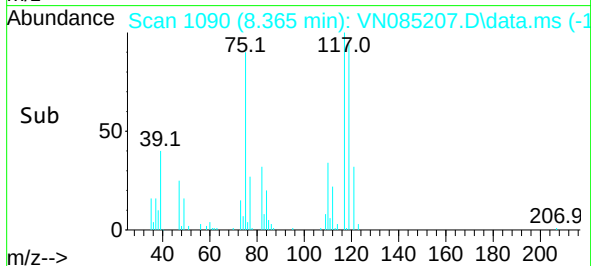
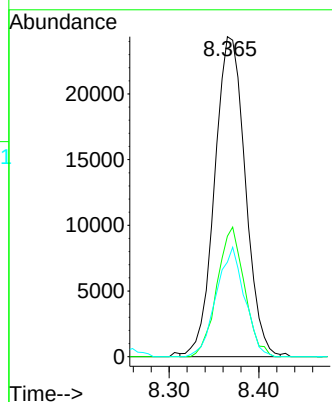
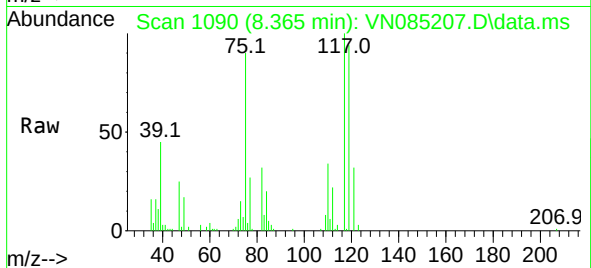




#29
1,1-Dichloropropene
Concen: 19.254 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

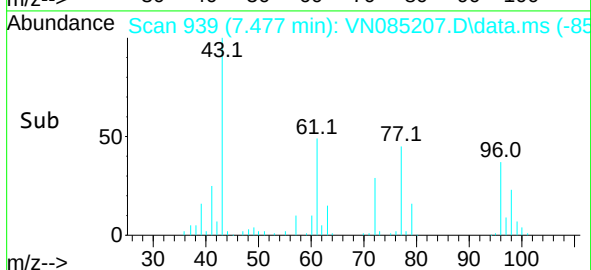
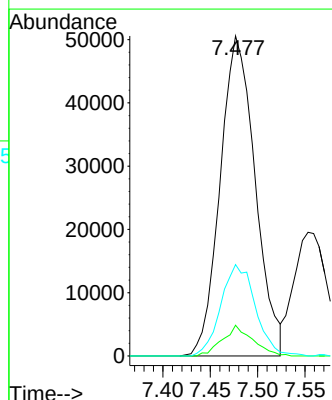
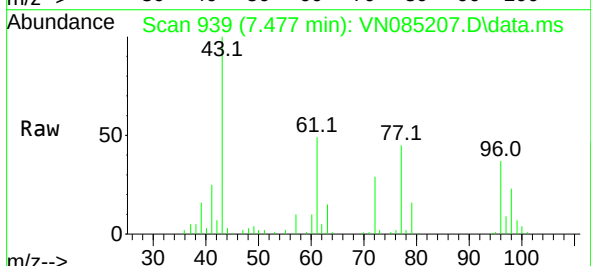
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

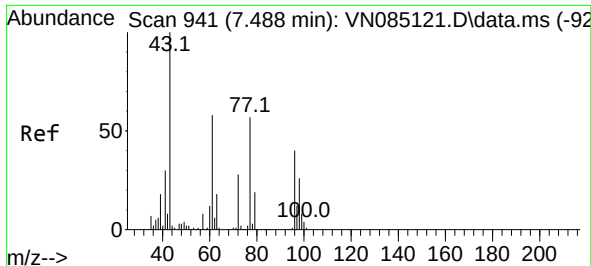
Tgt Ion:	75	Resp:	57776
Ion	Ratio	Lower	Upper
75	100		
110	36.1	0.0	71.6
77	31.6	0.0	62.2



#30
2-Butanone
Concen: 94.489 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:	43	Resp:	130116
Ion	Ratio	Lower	Upper
43	100		
57	8.2	6.9	10.3
72	28.2	21.8	32.8

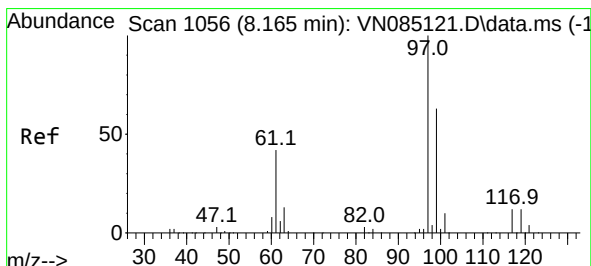
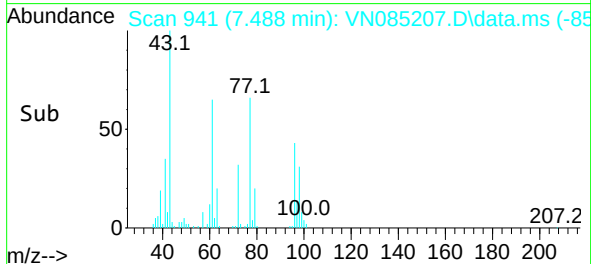
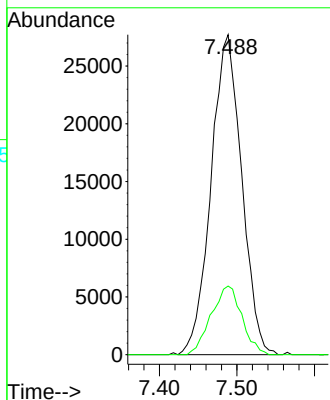
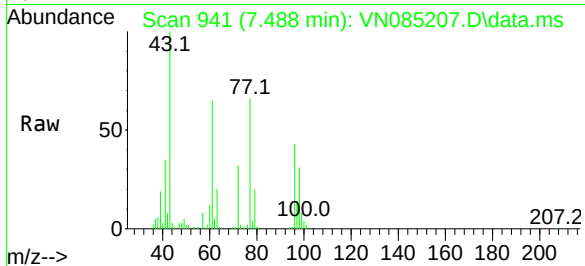




#31
2,2-Dichloropropane
Concen: 19.826 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

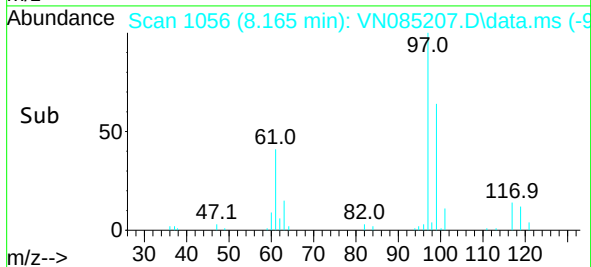
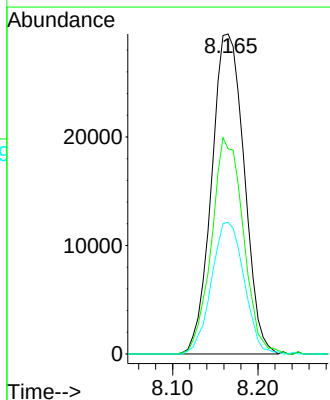
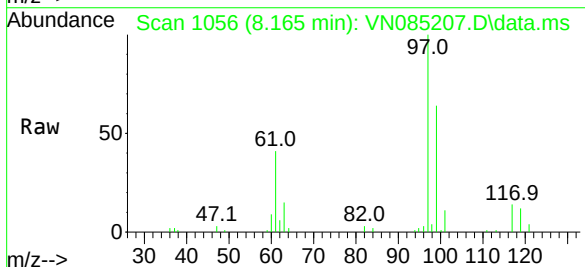
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

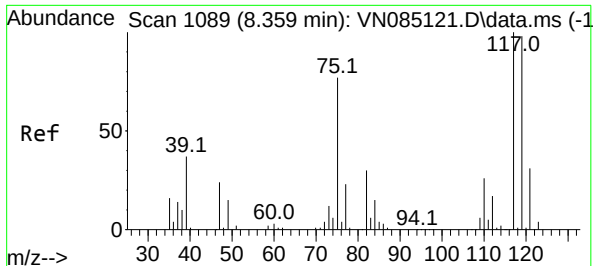
Tgt Ion: 77 Resp: 76289
Ion Ratio Lower Upper
77 100
97 21.5 0.0 0.0#



#32
1,1,1-Trichloroethane
Concen: 19.264 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 97 Resp: 78244
Ion Ratio Lower Upper
97 100
99 65.9 50.8 76.2
61 41.2 32.7 49.1

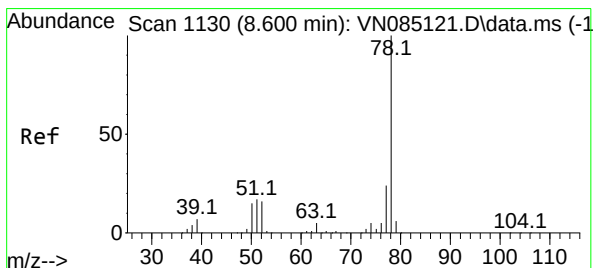
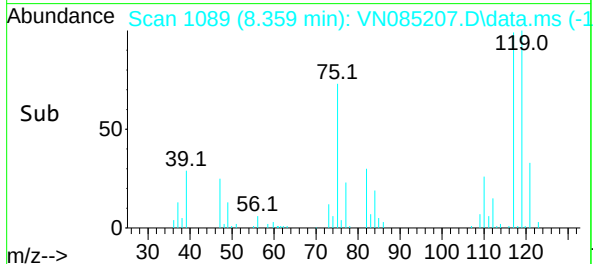
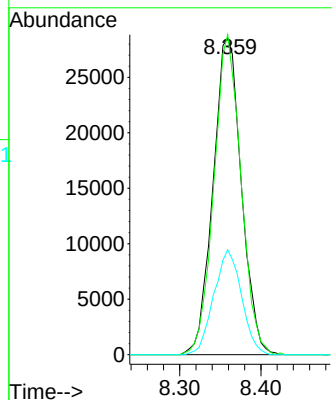
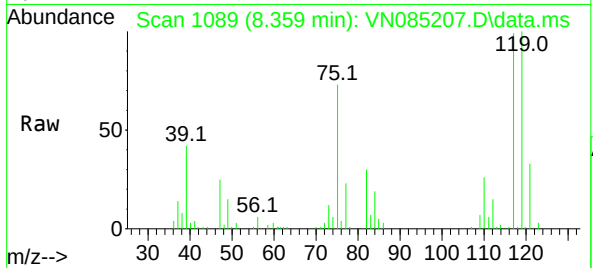




#33
Carbon Tetrachloride
Concen: 18.888 ug/l
RT: 8.359 min Scan# 1108
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

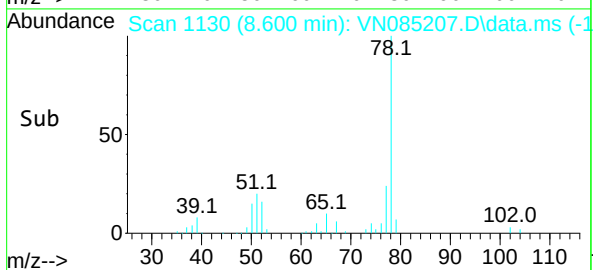
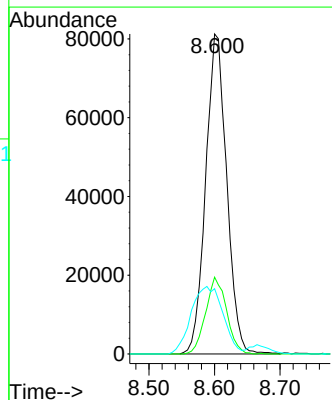
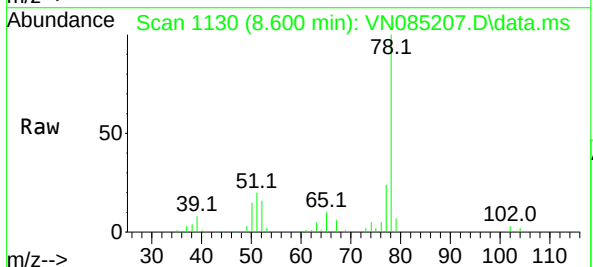
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

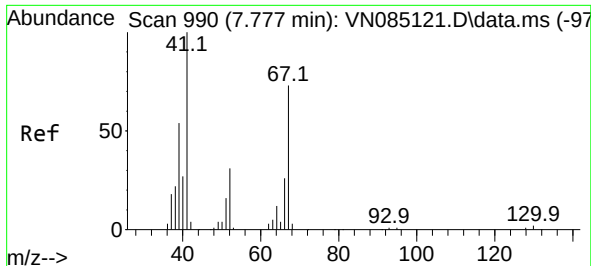
Tgt Ion:117 Resp: 69225
Ion Ratio Lower Upper
117 100
119 101.0 81.6 122.4
121 33.1 26.5 39.7



#34
Benzene
Concen: 19.246 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 78 Resp: 181426
Ion Ratio Lower Upper
78 100
77 24.0 18.0 27.0
51 20.0 12.4 18.6#



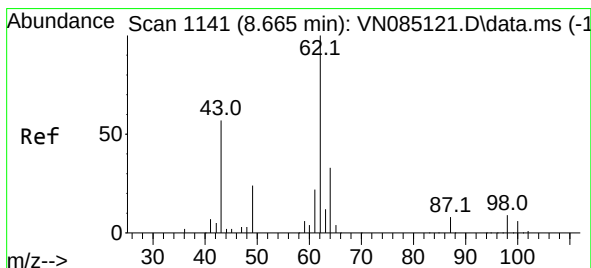
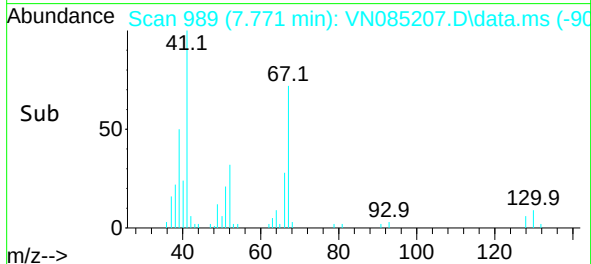
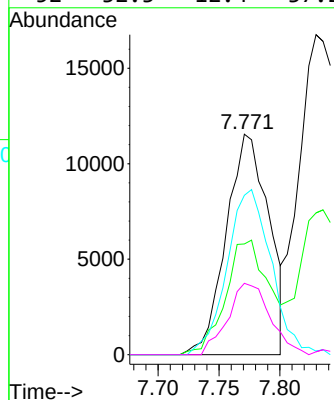
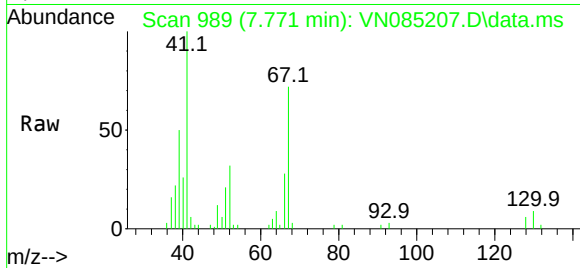


#35
Methacrylonitrile
Concen: 18.152 ug/l
RT: 7.771 min Scan# 911
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 41 Resp: 28129

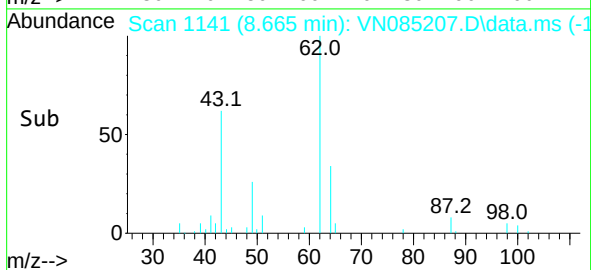
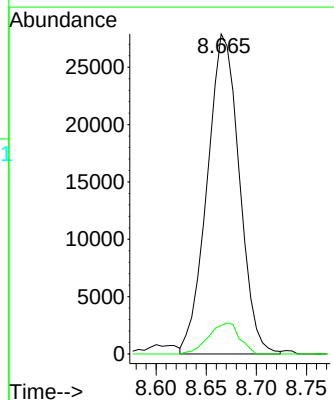
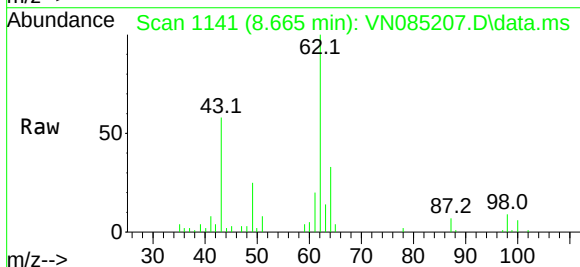
Ion	Ratio	Lower	Upper
41	100		
39	50.2	24.4	73.2
67	72.3	37.0	110.9
52	32.3	12.4	37.2

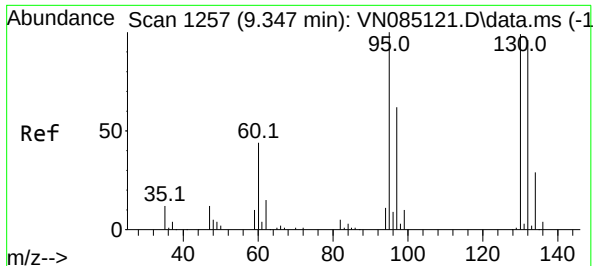


#36
1,2-Dichloroethane
Concen: 19.368 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 62 Resp: 62153

Ion	Ratio	Lower	Upper
62	100		
98	9.3	7.3	10.9

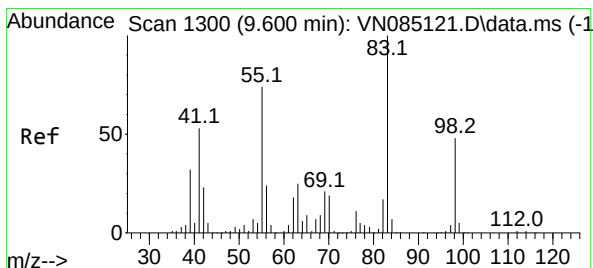
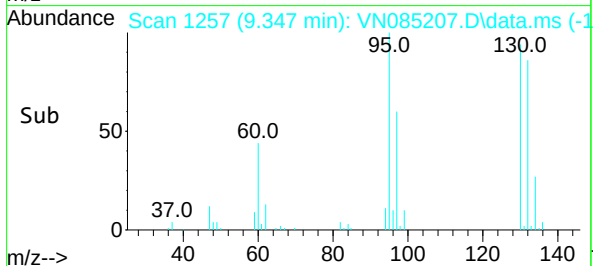
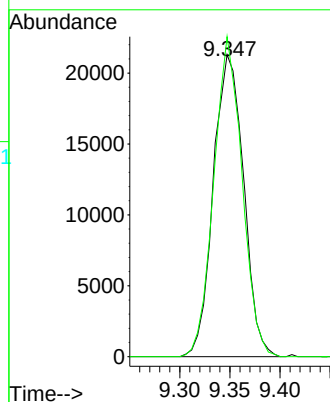
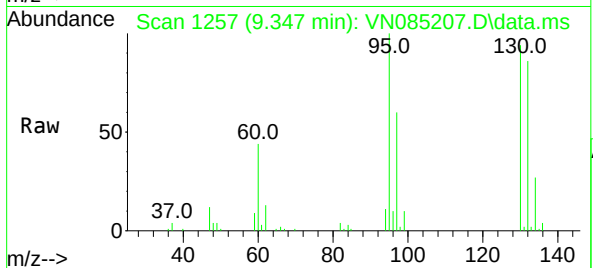




#37
Trichloroethene
Concen: 19.949 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

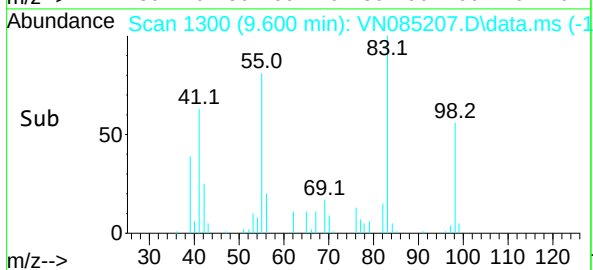
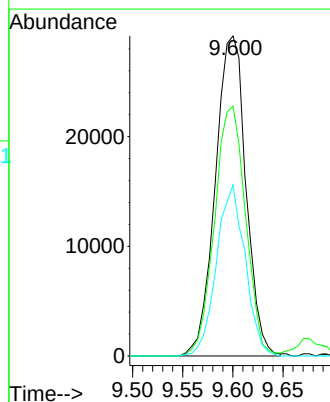
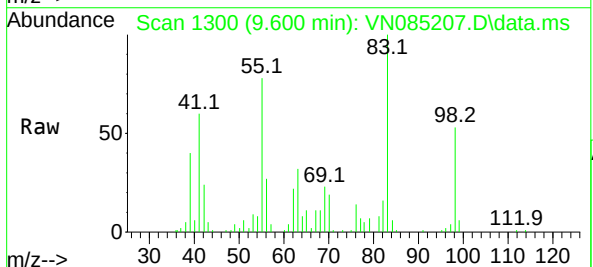
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

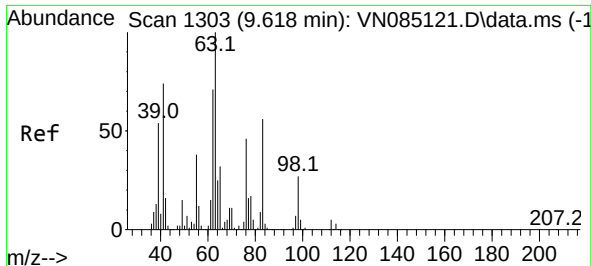
Tgt Ion:130 Resp: 44782
Ion Ratio Lower Upper
130 100
95 105.9 76.2 114.4



#38
Methylcyclohexane
Concen: 19.000 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 83 Resp: 61994
Ion Ratio Lower Upper
83 100
55 79.1 41.4 124.4
98 49.9 25.7 77.1

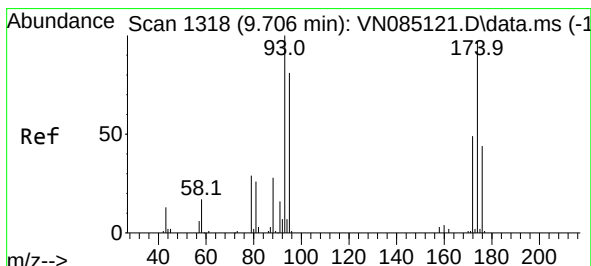
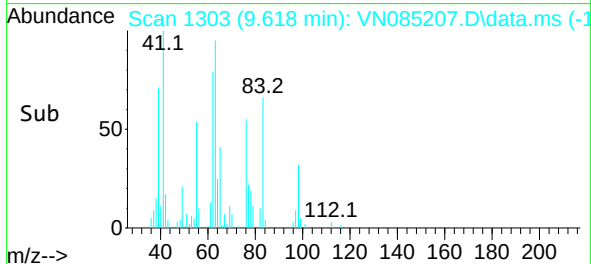
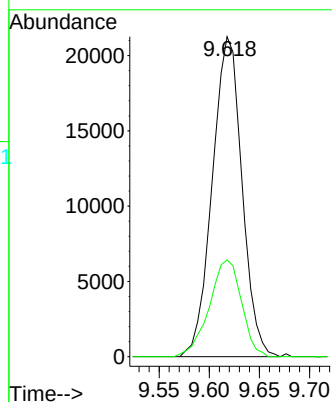
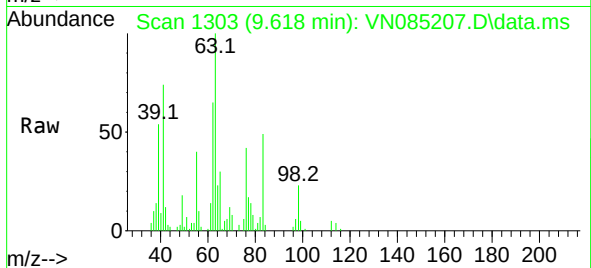




#39
1,2-Dichloropropane
Concen: 19.143 ug/l
RT: 9.618 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

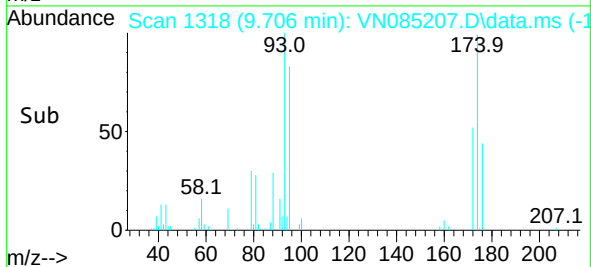
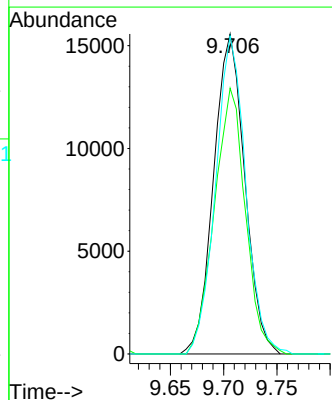
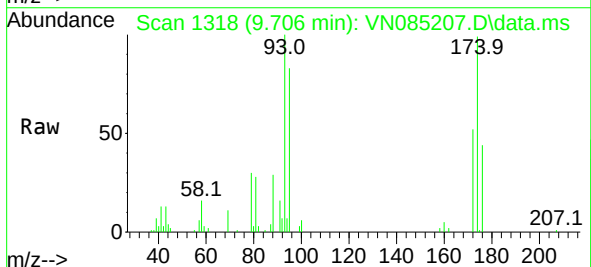
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

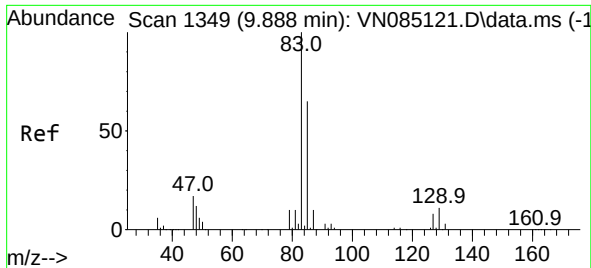
Tgt Ion: 63 Resp: 43708
Ion Ratio Lower Upper
63 100
65 30.3 23.4 35.0



#40
Dibromomethane
Concen: 19.271 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 93 Resp: 31562
Ion Ratio Lower Upper
93 100
95 82.7 0.0 169.4
174 96.3 0.0 189.8

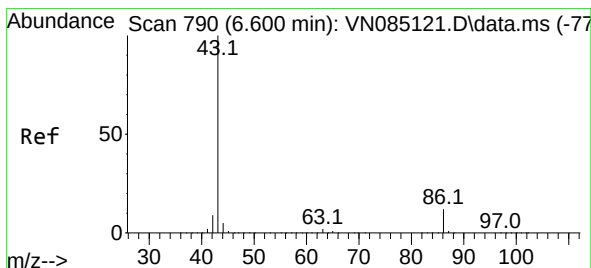
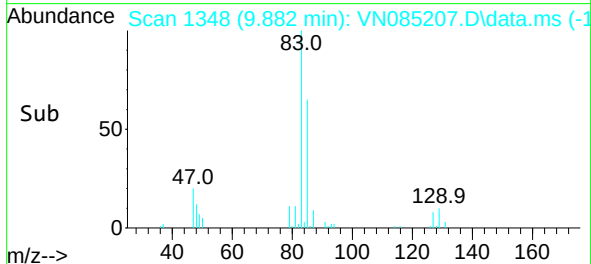
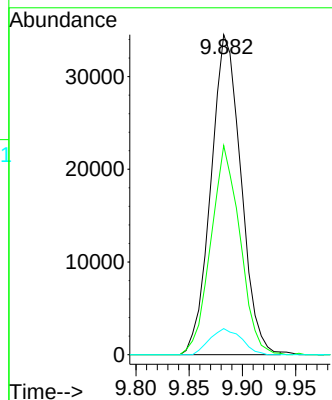
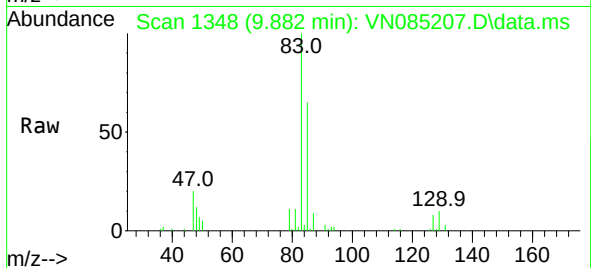




#41
Bromodichloromethane
Concen: 19.343 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

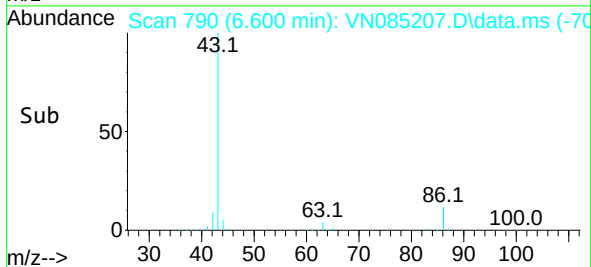
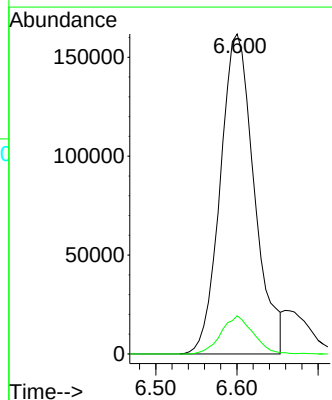
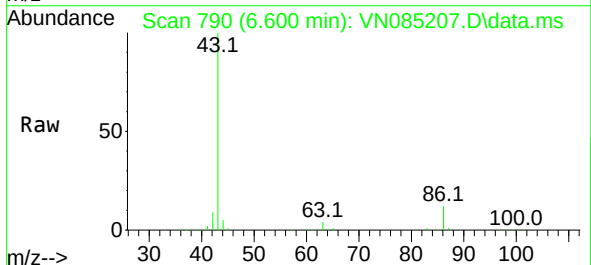
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

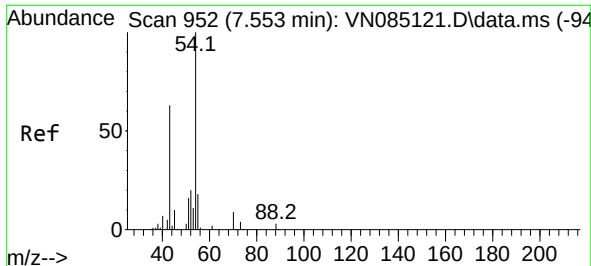
Tgt Ion: 83 Resp: 67723
Ion Ratio Lower Upper
83 100
85 65.3 54.6 81.8
127 8.1 7.0 10.6



#42
Vinyl Acetate
Concen: 97.906 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 43 Resp: 471771
Ion Ratio Lower Upper
43 100
86 11.2 9.2 13.8

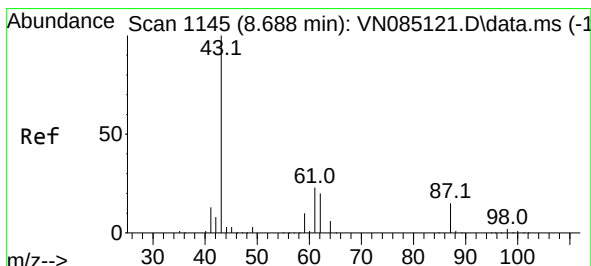
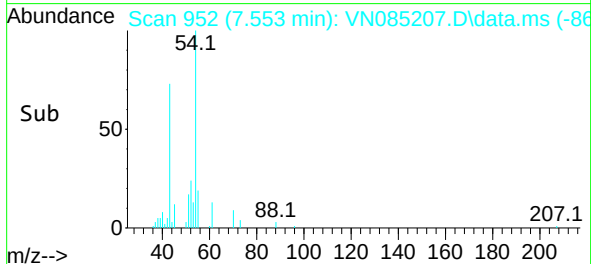
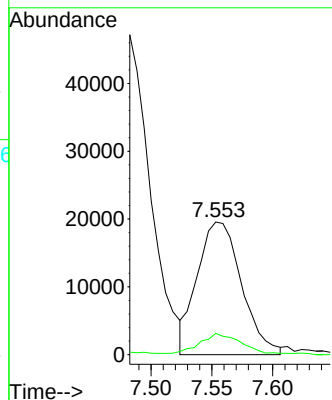
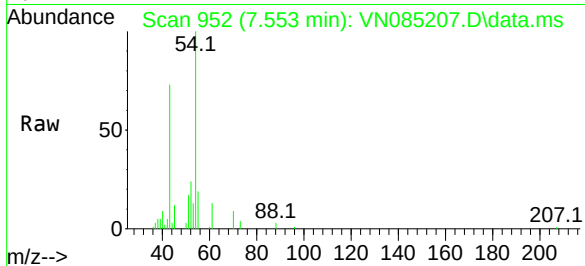




#43
Ethyl Acetate
Concen: 18.066 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

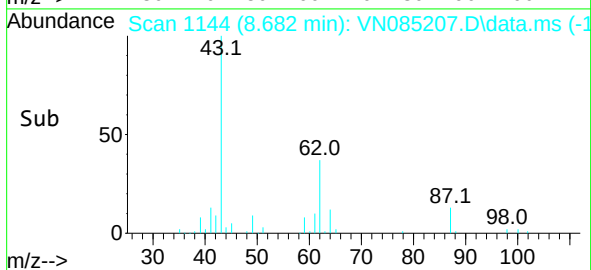
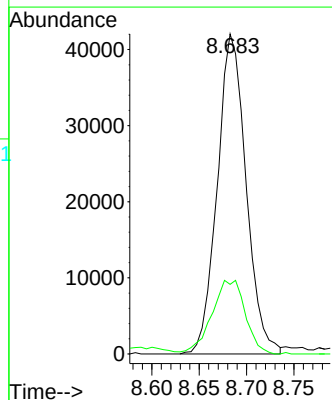
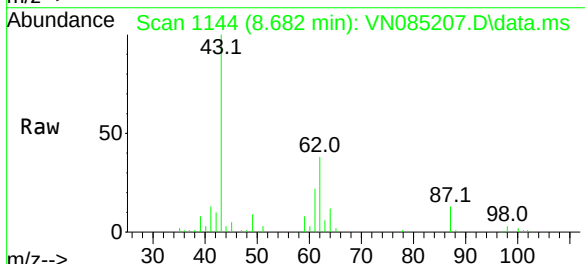
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

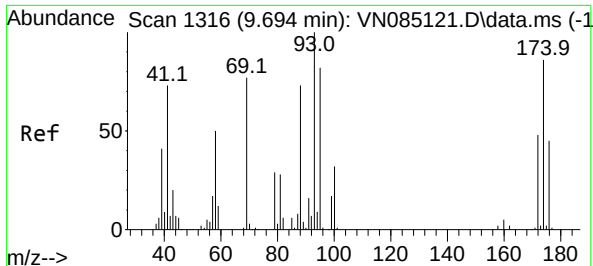
Tgt Ion: 43 Resp: 49499
Ion Ratio Lower Upper
43 100
45 14.9 13.3 19.9



#44
Isopropyl Acetate
Concen: 18.694 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 43 Resp: 89011
Ion Ratio Lower Upper
43 100
61 26.7 21.5 32.3

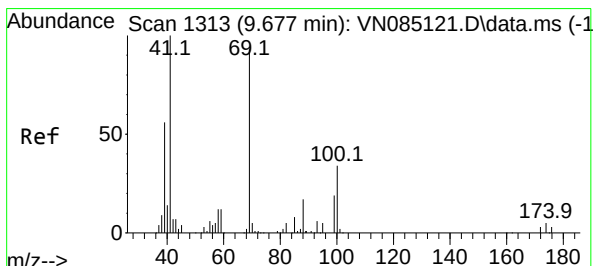
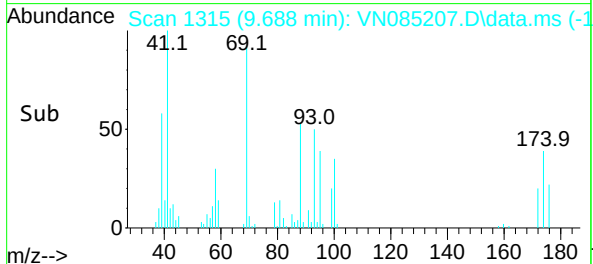
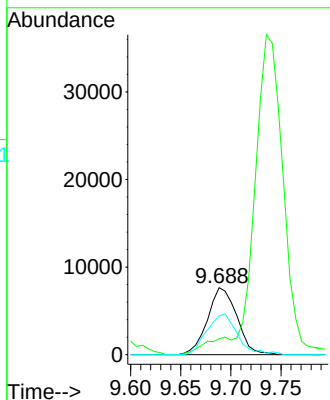
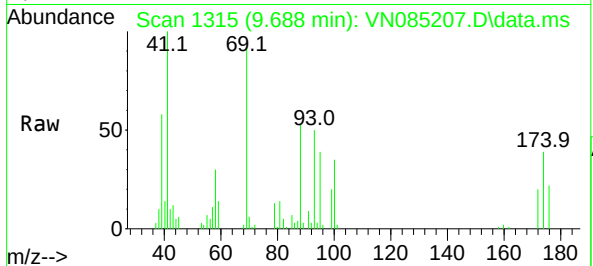




#45
1,4-Dioxane
Concen: 392.939 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

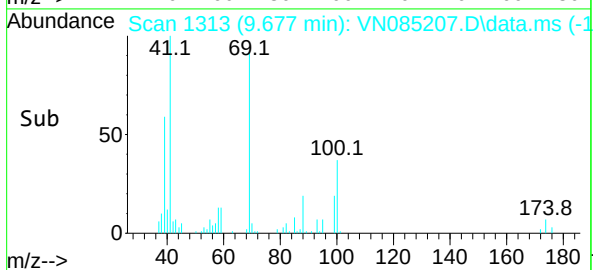
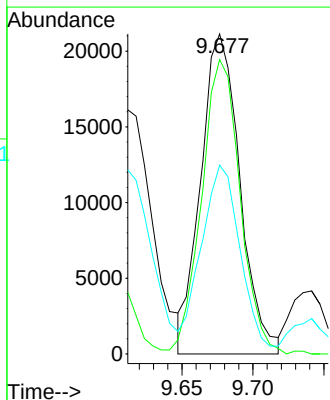
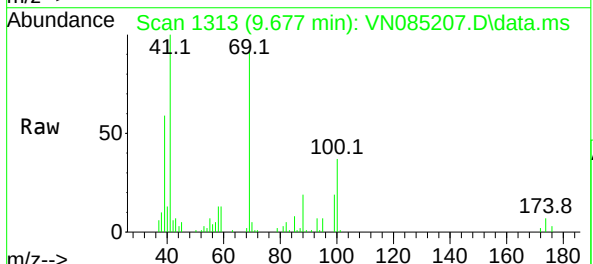
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

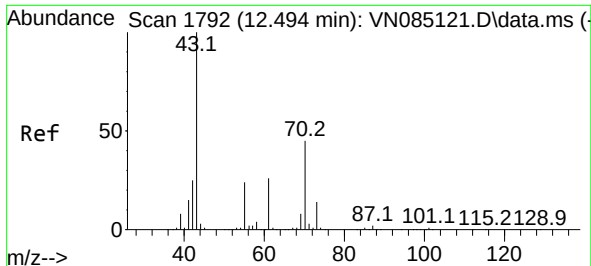
Tgt Ion: 88 Resp: 15602
Ion Ratio Lower Upper
88 100
43 24.2 21.7 32.5
58 62.3 52.6 79.0



#46
Methyl methacrylate
Concen: 18.632 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 41 Resp: 40601
Ion Ratio Lower Upper
41 100
69 95.2 46.7 140.0
39 59.6 28.5 85.5

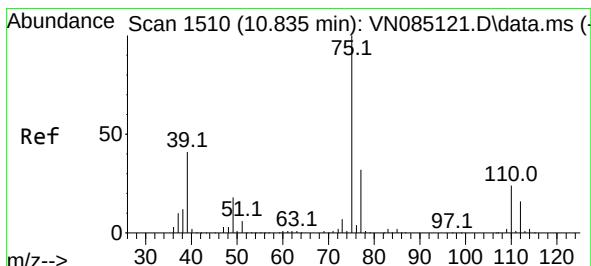
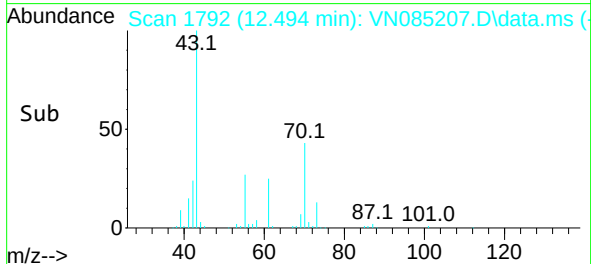
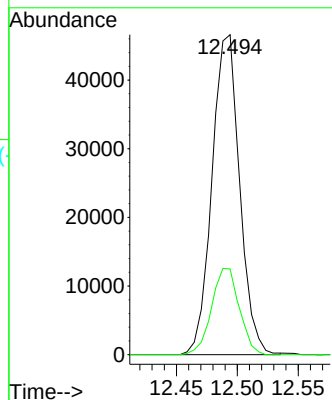
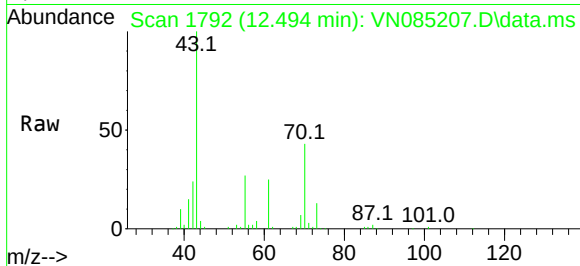




#47
n-amyl acetate
Concen: 18.361 ug/l
RT: 12.494 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

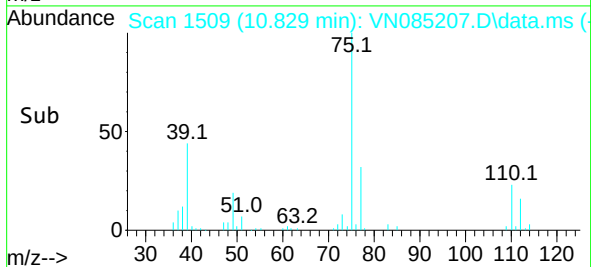
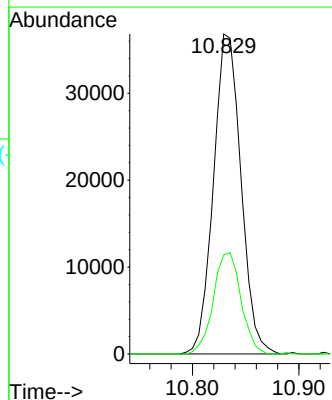
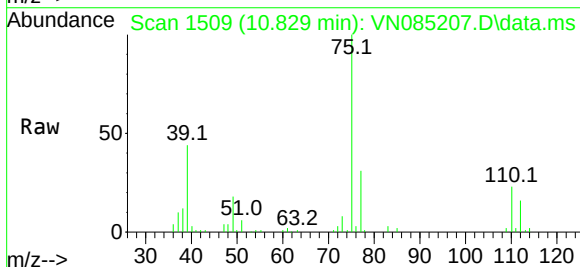
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

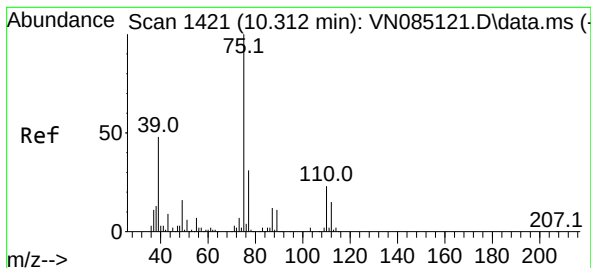
Tgt Ion: 43 Resp: 73556
Ion Ratio Lower Upper
43 100
55 27.0 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 19.202 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 75 Resp: 65995
Ion Ratio Lower Upper
75 100
77 30.9 25.5 38.3

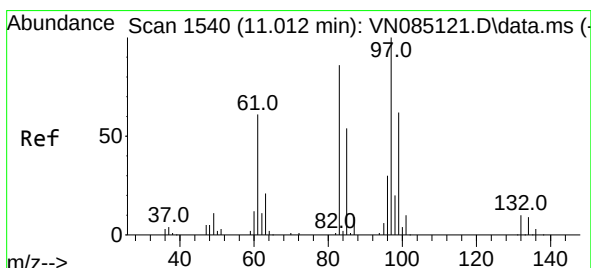
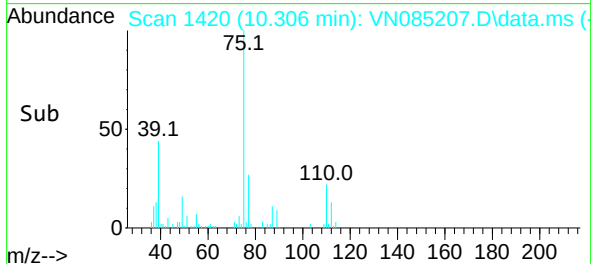
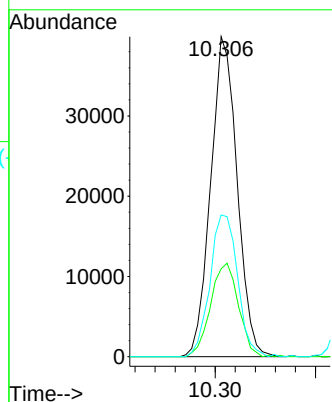
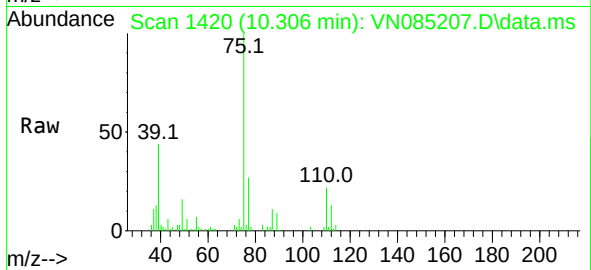




#49
cis-1,3-Dichloropropene
Concen: 19.544 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

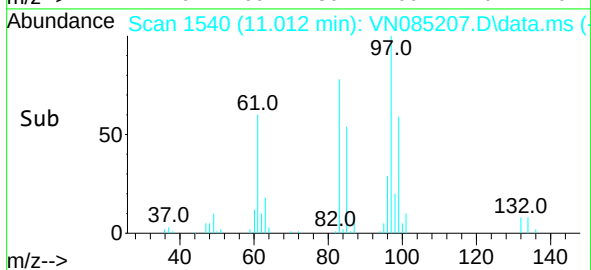
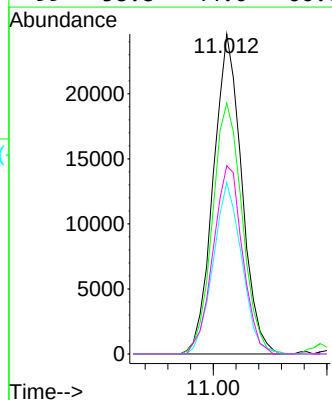
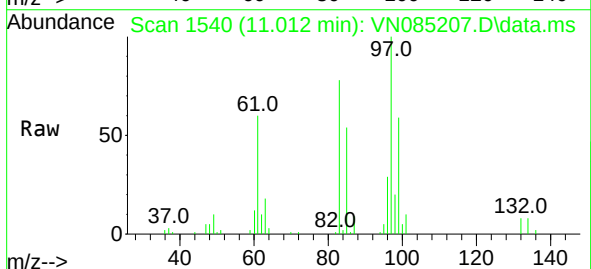
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

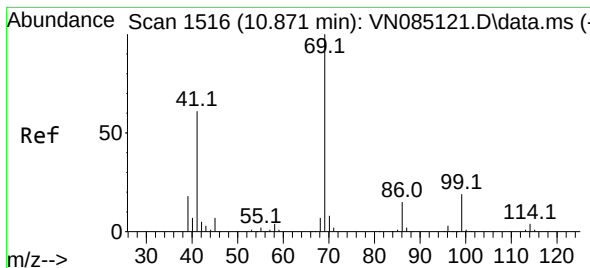
Tgt Ion: 75	Resp: 73124
Ion Ratio	Lower Upper
75 100	
77 27.5	23.8 35.6
39 44.3	37.3 55.9



#50
1,1,2-Trichloroethane
Concen: 19.311 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 97	Resp: 42618
Ion Ratio	Lower Upper
97 100	
83 78.4	65.8 98.8
85 53.5	40.8 61.2
99 58.8	44.0 66.0





#51

Ethyl methacrylate

Concen: 18.569 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

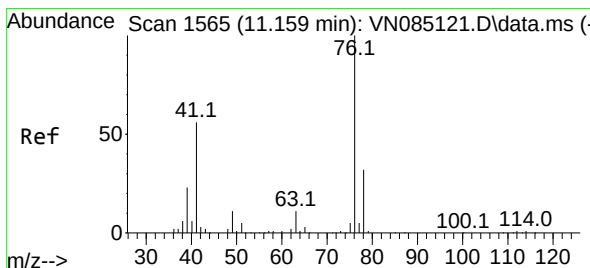
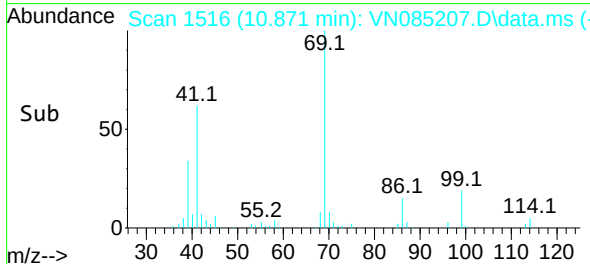
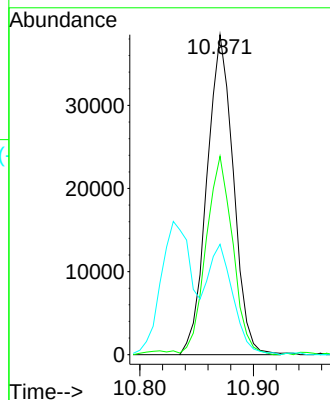
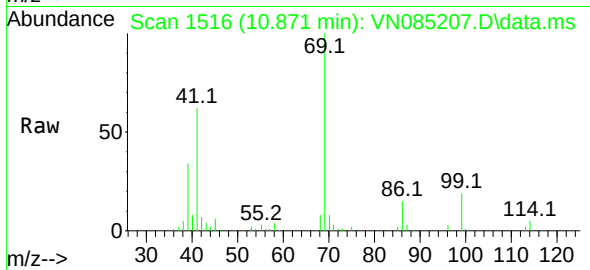
Tgt Ion: 69 Resp: 62332

Ion Ratio Lower Upper

69 100

41 62.0 32.1 96.3

39 34.5 18.8 56.4



#52

1,3-Dichloropropane

Concen: 19.192 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085207.D

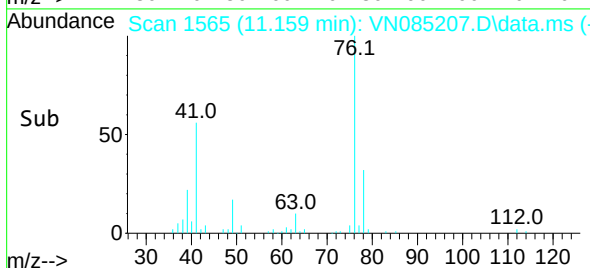
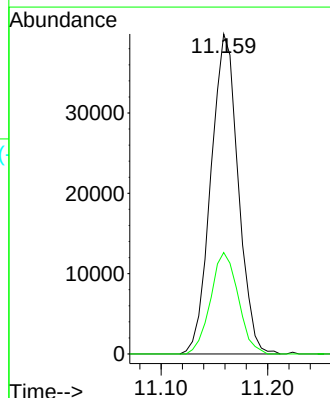
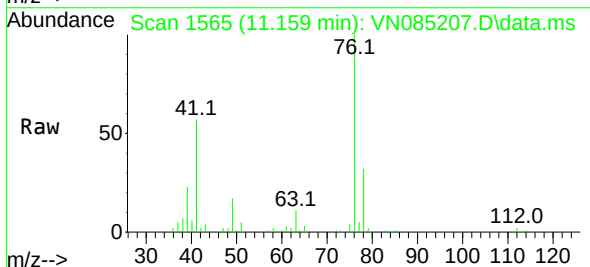
Acq: 16 Dec 2024 09:42

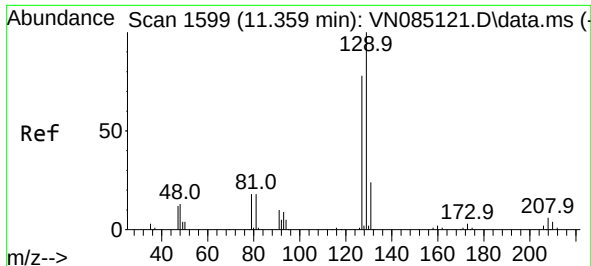
Tgt Ion: 76 Resp: 70887

Ion Ratio Lower Upper

76 100

78 32.1 0.0 65.6

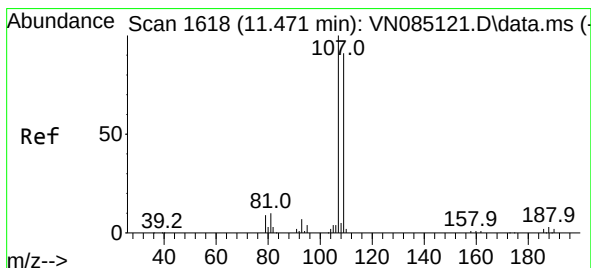
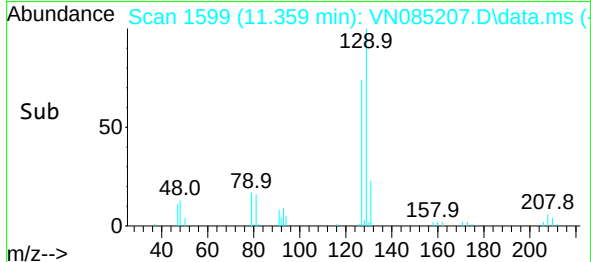
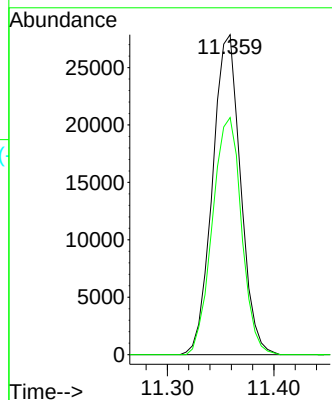
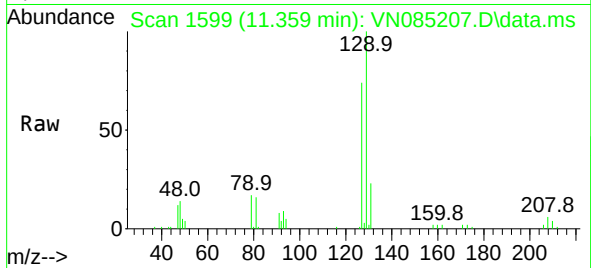




#53
Dibromochloromethane
Concen: 18.970 ug/l
RT: 11.359 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

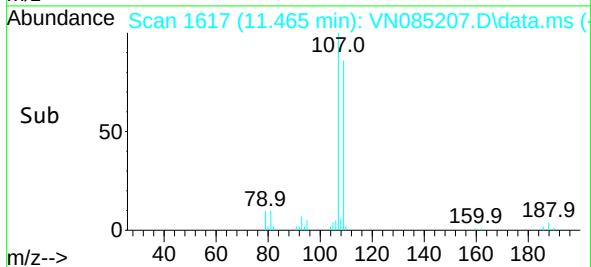
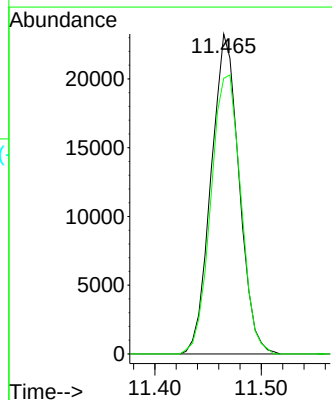
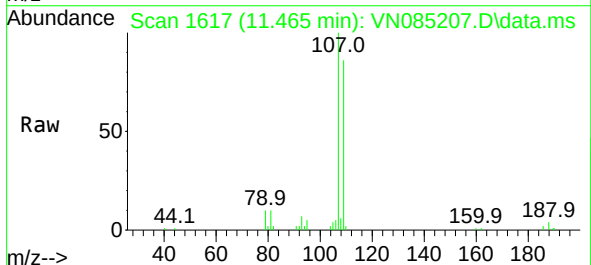
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

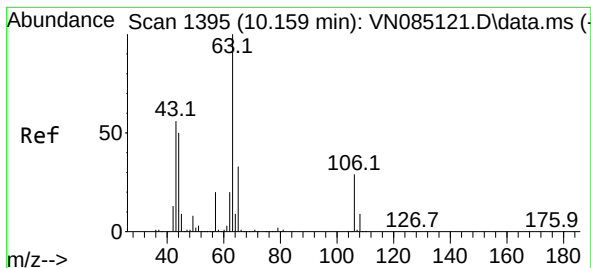
Tgt Ion:129 Resp: 51019
Ion Ratio Lower Upper
129 100
127 76.8 37.3 111.9



#54
1,2-Dibromoethane
Concen: 19.116 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:107 Resp: 42506
Ion Ratio Lower Upper
107 100
109 93.2 75.2 112.8

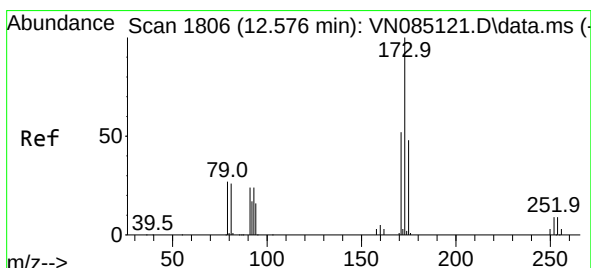
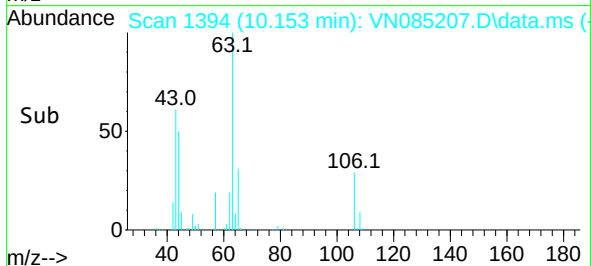
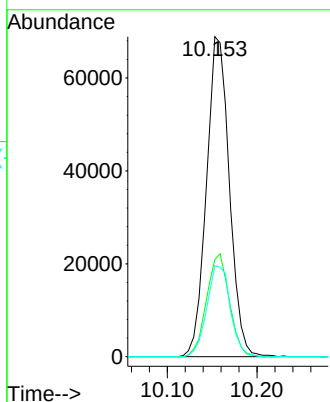
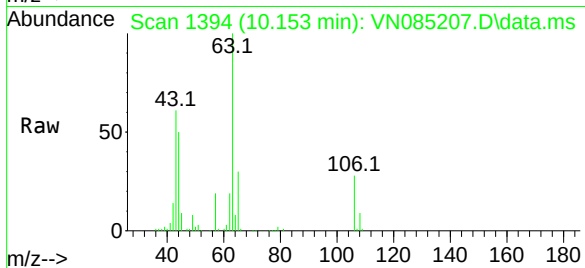




#55
2-Chloroethyl vinyl ether
Concen: 78.348 ug/l
RT: 10.153 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

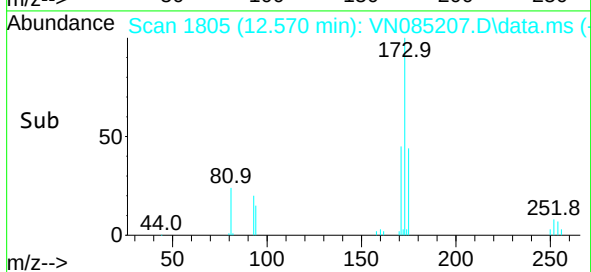
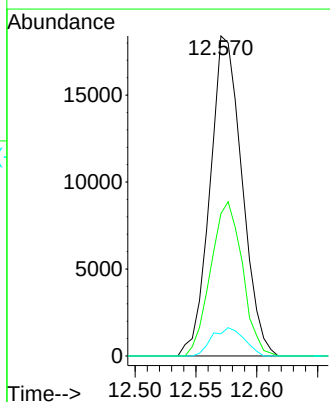
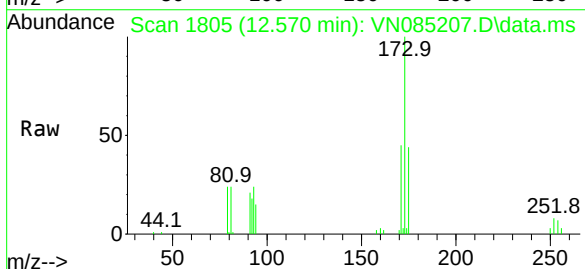
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

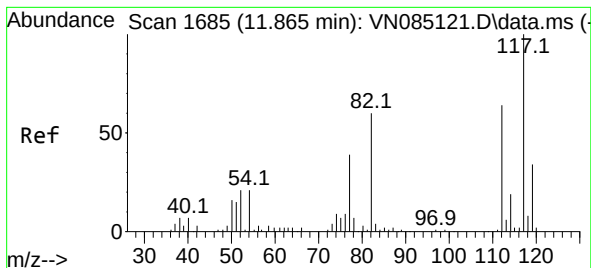
Tgt Ion: 63 Resp: 122170
Ion Ratio Lower Upper
63 100
65 31.9 25.9 38.9
106 29.2 23.5 35.3



#56
Bromoform
Concen: 18.650 ug/l
RT: 12.570 min Scan# 1805
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 173 Resp: 33630
Ion Ratio Lower Upper
173 100
175 47.7 40.2 60.2
254 8.9 6.2 9.4

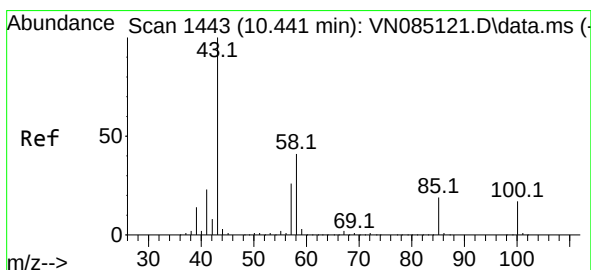
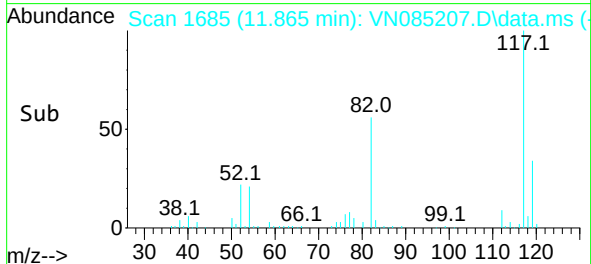
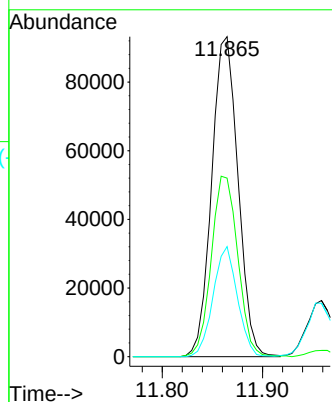
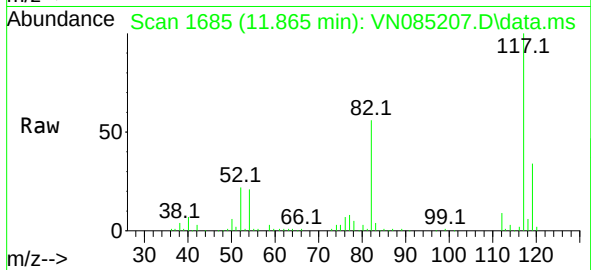




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

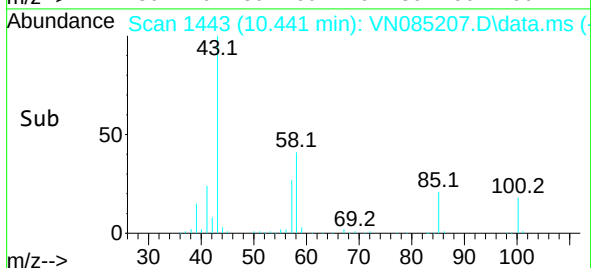
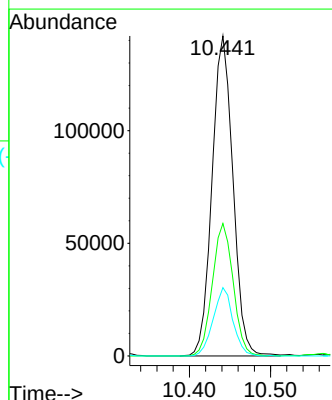
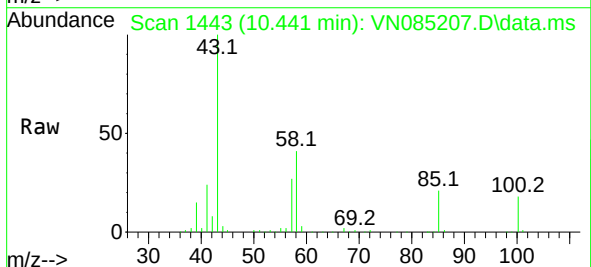
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

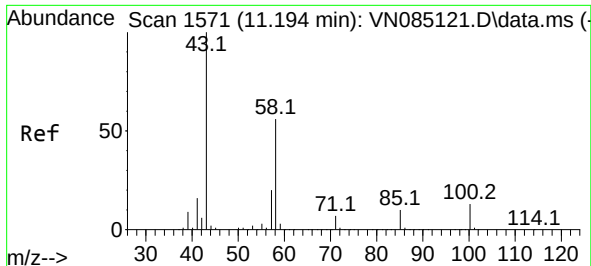
Tgt Ion:117 Resp: 170233
Ion Ratio Lower Upper
117 100
82 56.8 44.2 66.4
119 31.8 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 91.560 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 43 Resp: 254378
Ion Ratio Lower Upper
43 100
58 41.1 31.6 47.4
85 20.2 15.0 22.6

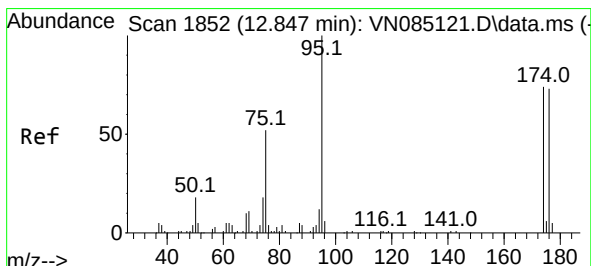
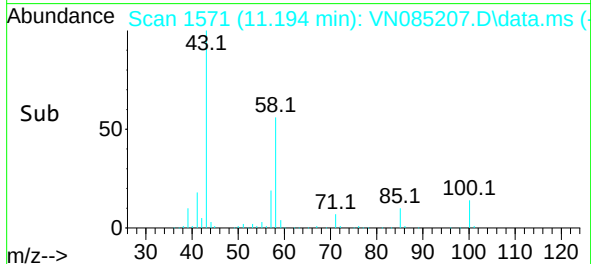
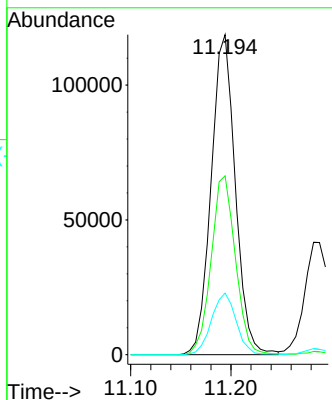
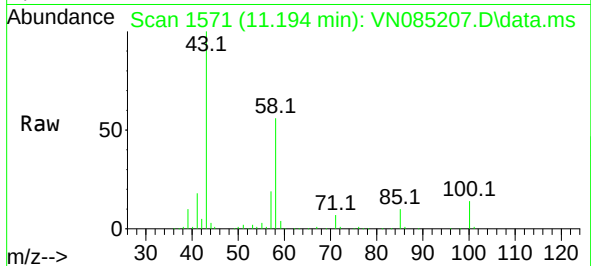




#59
2-Hexanone
Concen: 94.267 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

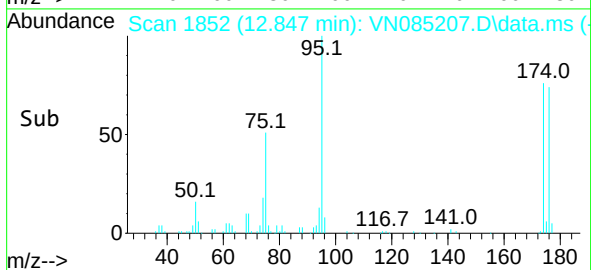
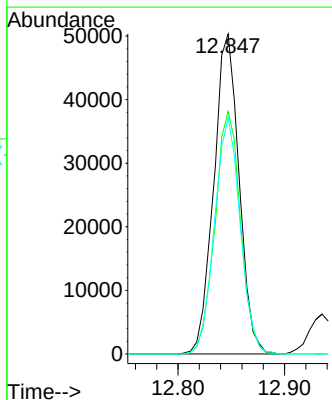
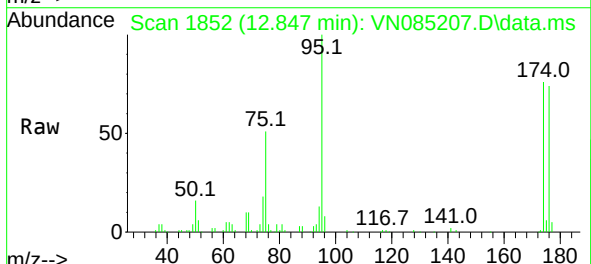
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

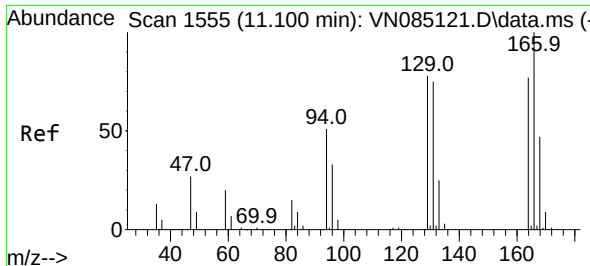
Tgt Ion: 43 Resp: 198443
Ion Ratio Lower Upper
43 100
58 56.2 43.6 65.4
57 19.6 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 29.423 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 95 Resp: 82875
Ion Ratio Lower Upper
95 100
174 76.4 60.3 90.5
176 74.9 57.4 86.0

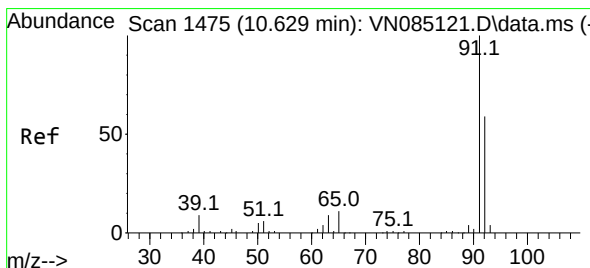
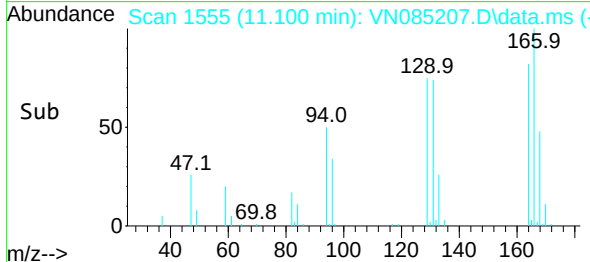
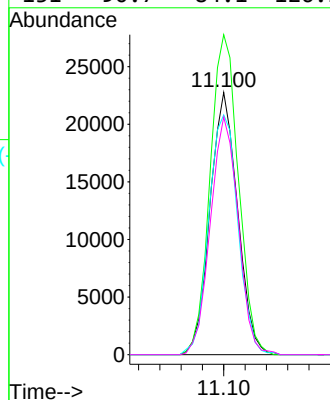
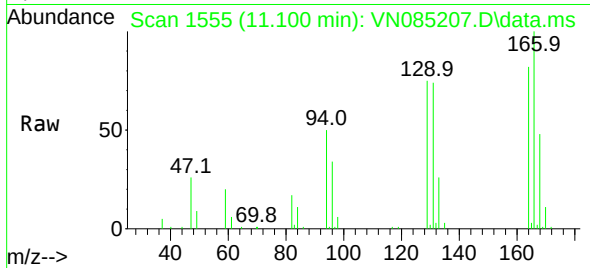




#61
Tetrachloroethene
Concen: 19.885 ug/l
RT: 11.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

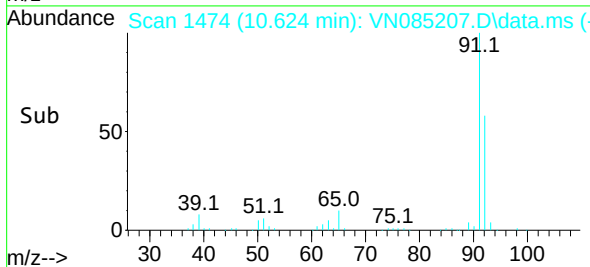
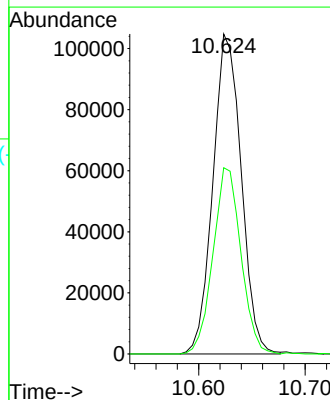
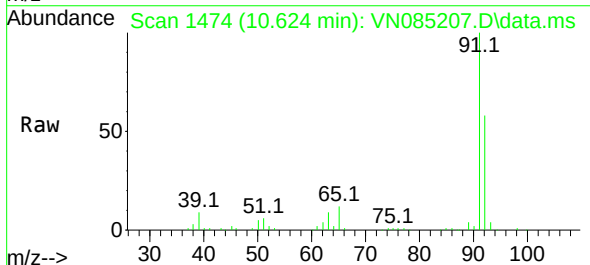
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

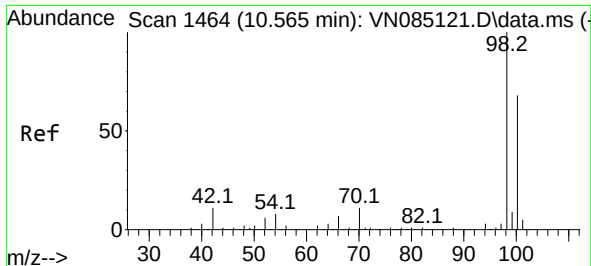
Tgt Ion:164 Resp: 40993
Ion Ratio Lower Upper
164 100
166 122.0 103.8 155.8
129 91.5 84.2 126.4
131 90.7 84.1 126.1



#62
Toluene
Concen: 19.467 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 91 Resp: 193265
Ion Ratio Lower Upper
91 100
92 57.4 46.5 69.7

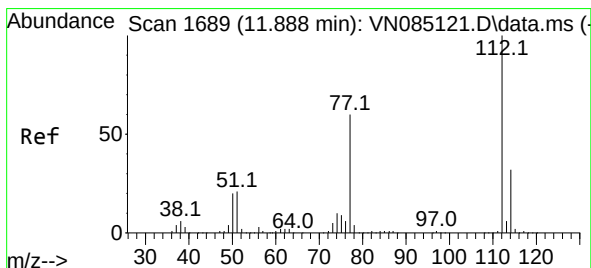
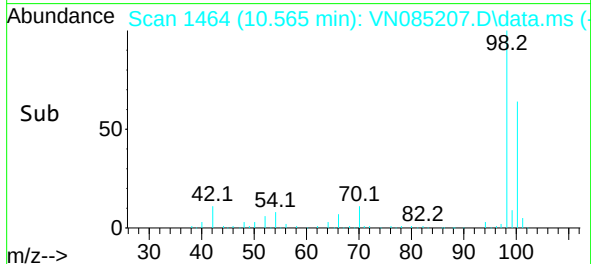
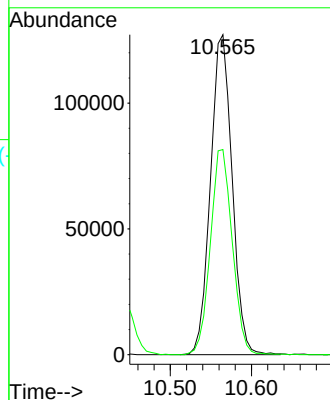
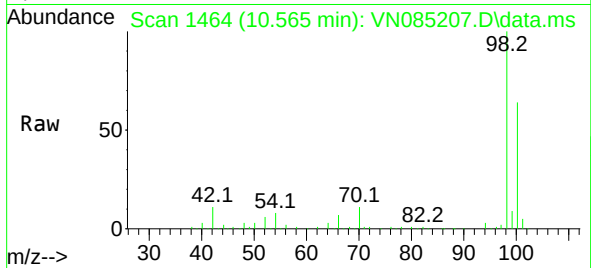




#63
Toluene-d8
Concen: 29.497 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

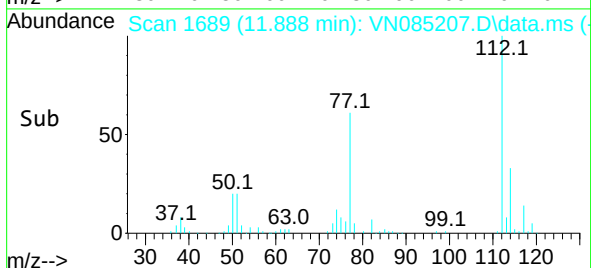
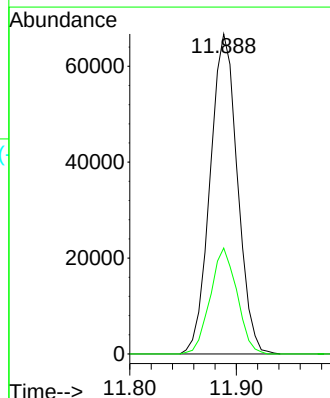
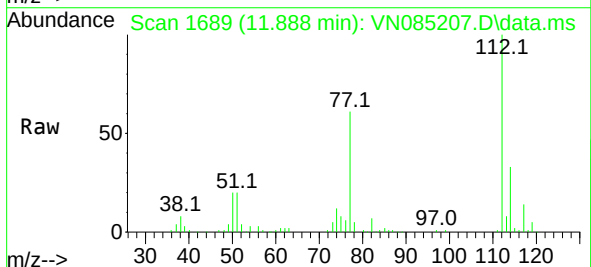
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

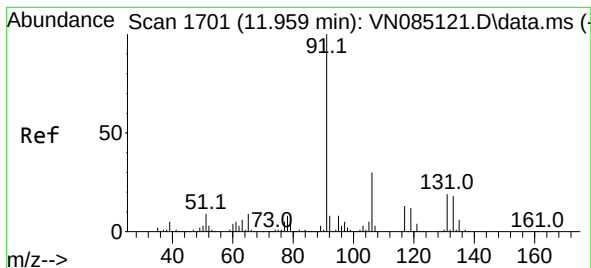
Tgt Ion: 98 Resp: 235545
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0



#64
Chlorobenzene
Concen: 19.419 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 112 Resp: 119028
Ion Ratio Lower Upper
112 100
114 33.1 26.0 39.0





#65

1,1,1,2-Tetrachloroethane

Concen: 19.379 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

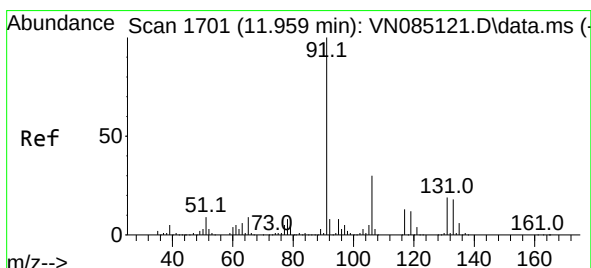
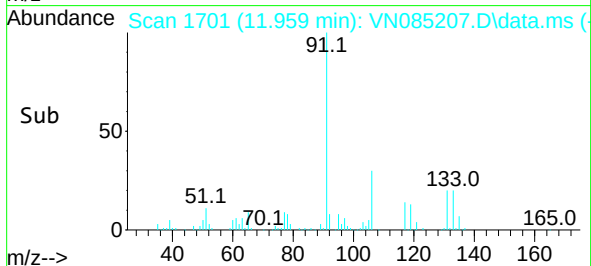
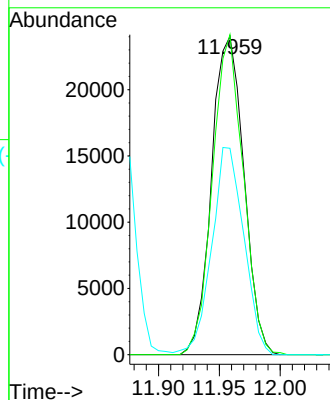
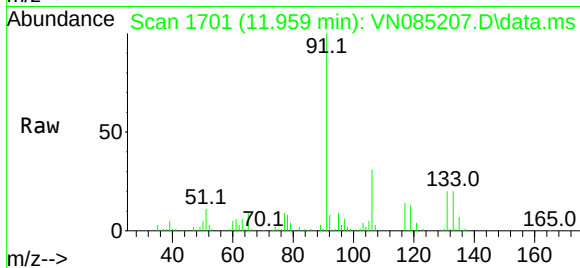
Tgt Ion:131 Resp: 44343

Ion Ratio Lower Upper

131 100

133 95.8 0.0 194.0

119 64.6 0.0 131.8



#66

Ethyl Benzene

Concen: 19.728 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.006 min

Lab File: VN085207.D

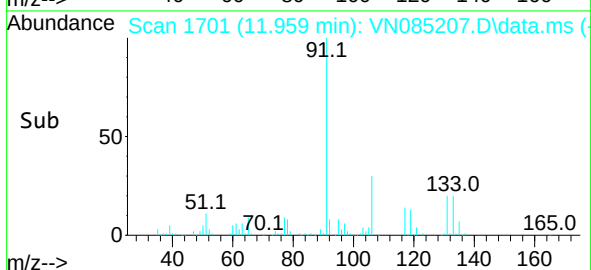
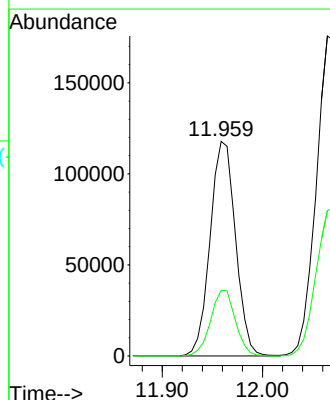
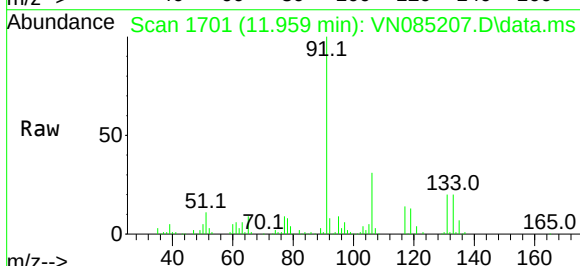
Acq: 16 Dec 2024 09:42

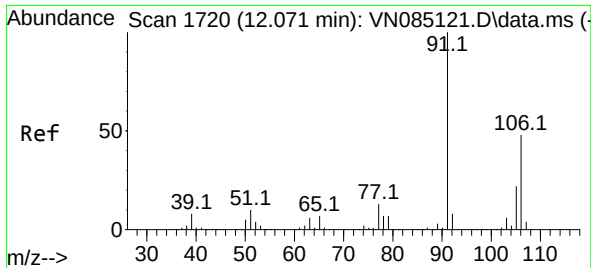
Tgt Ion: 91 Resp: 207827

Ion Ratio Lower Upper

91 100

106 30.6 23.1 34.7

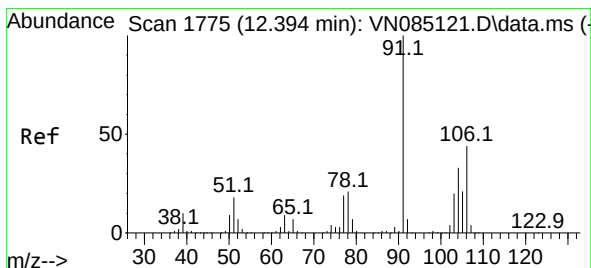
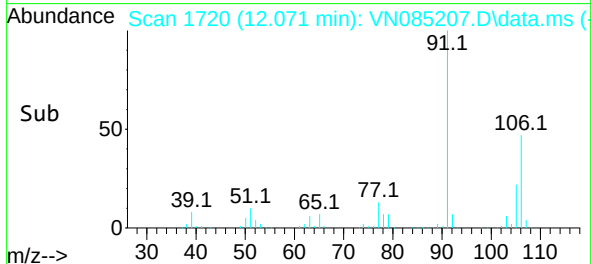
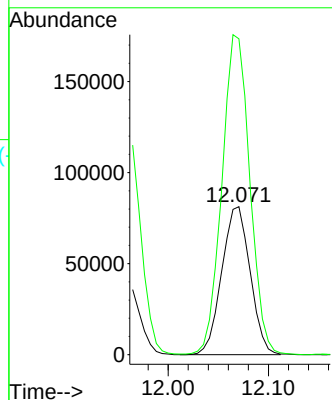
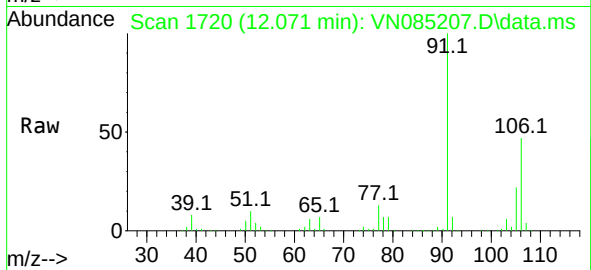




#67
m/p-Xylenes
Concen: 39.379 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

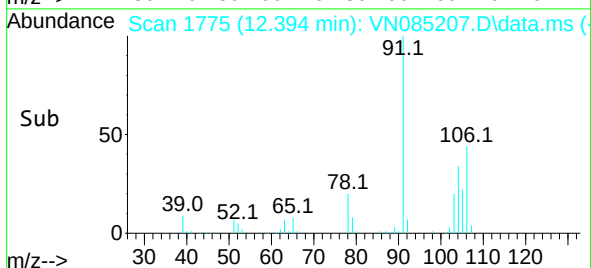
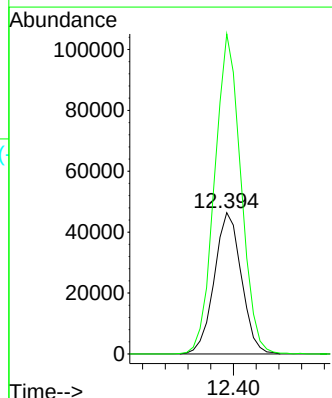
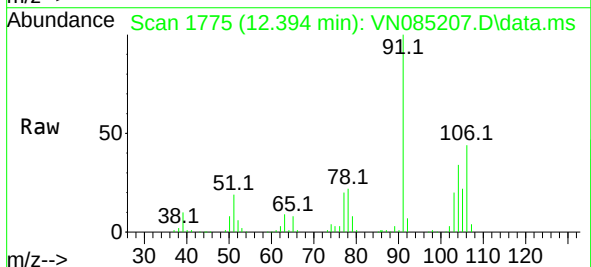
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

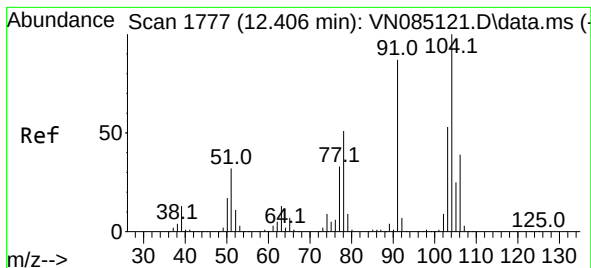
Tgt Ion:106 Resp: 159560
Ion Ratio Lower Upper
106 100
91 212.7 165.0 247.4



#68
o-Xylene
Concen: 20.208 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:106 Resp: 76900
Ion Ratio Lower Upper
106 100
91 220.1 112.1 336.4





#69

Styrene

Concen: 19.998 ug/l

RT: 12.406 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

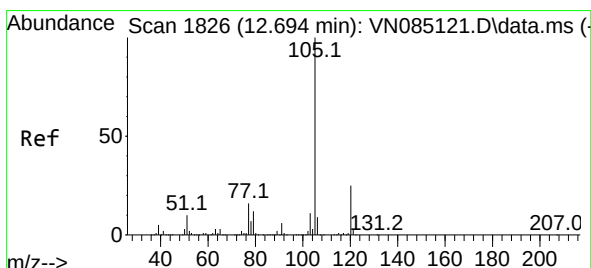
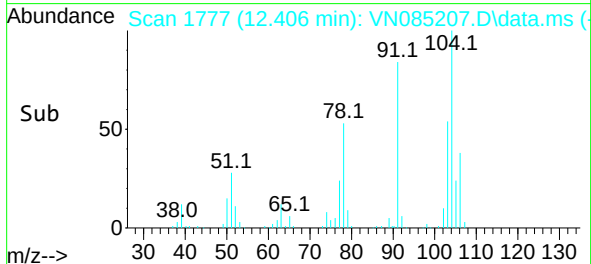
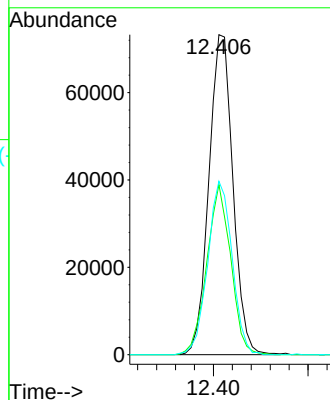
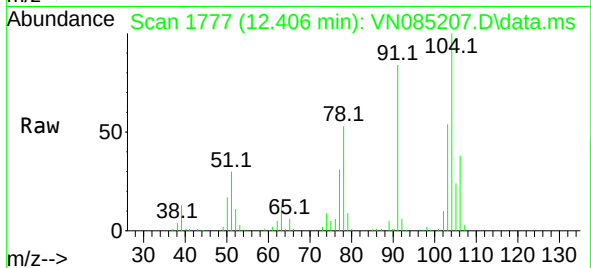
Tgt Ion:104 Resp: 129131

Ion Ratio Lower Upper

104 100

78 52.8 42.3 63.5

103 55.1 44.4 66.6



#70

Isopropylbenzene

Concen: 20.013 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN085207.D

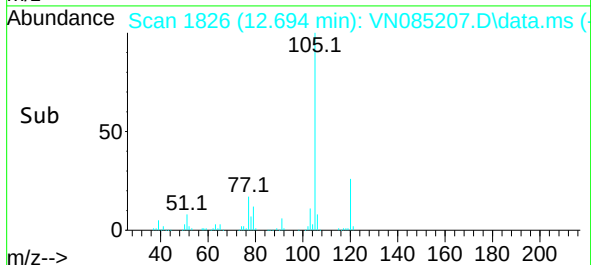
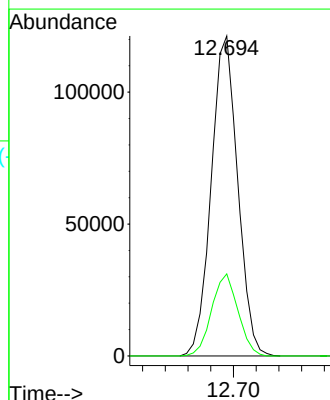
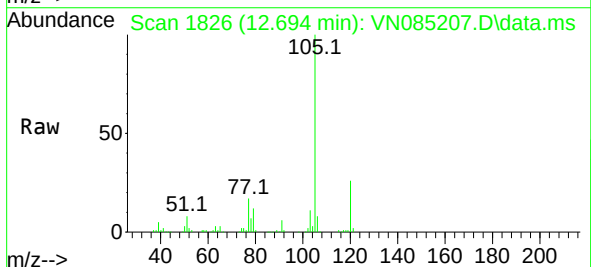
Acq: 16 Dec 2024 09:42

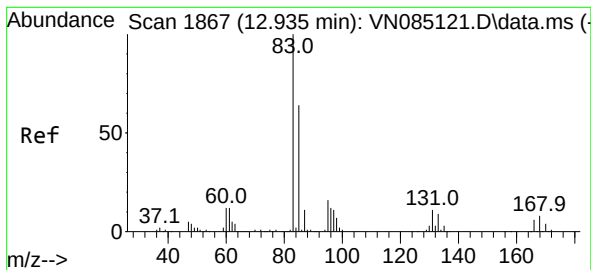
Tgt Ion:105 Resp: 196429

Ion Ratio Lower Upper

105 100

120 25.5 18.3 33.9

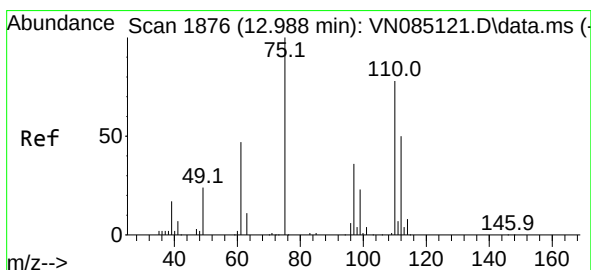
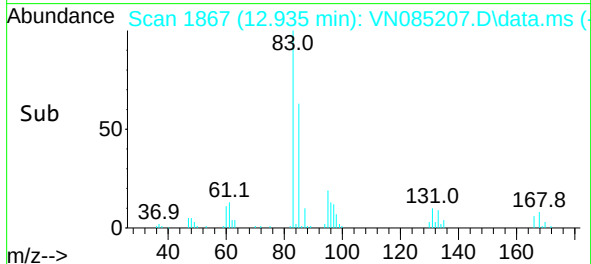
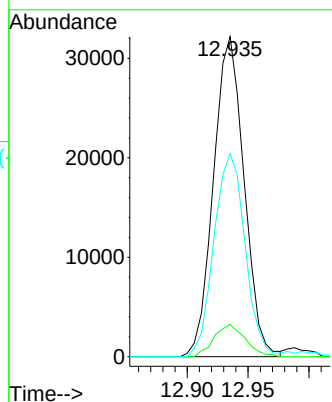
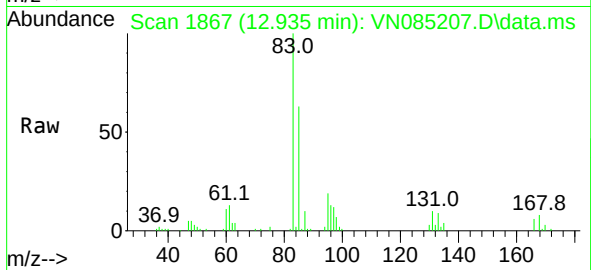




#71
 1,1,2,2-Tetrachloroethane
 Concen: 18.796 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

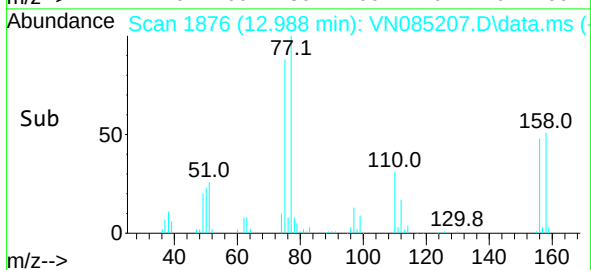
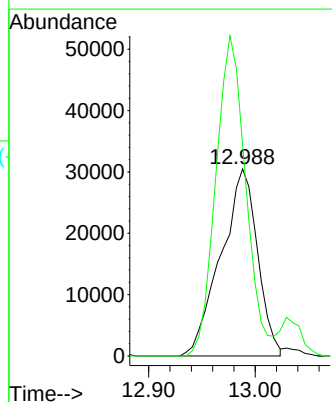
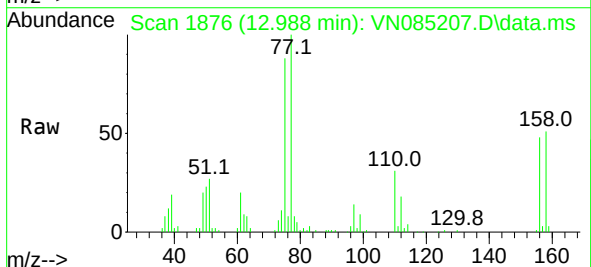
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

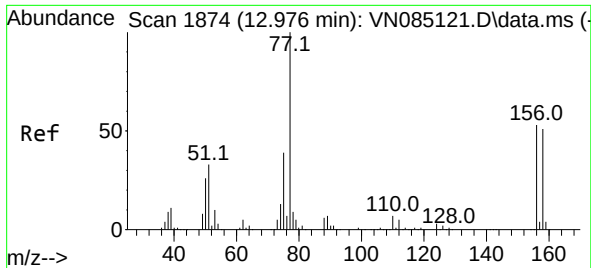
Tgt Ion: 83 Resp: 56150
 Ion Ratio Lower Upper
 83 100
 131 10.3 5.1 15.3
 85 64.2 31.1 93.5



#72
 1,2,3-Trichloropropane
 Concen: 24.658 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. -0.006 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

Tgt Ion: 75 Resp: 72767
 Ion Ratio Lower Upper
 75 100
 77 140.4 0.0 339.0

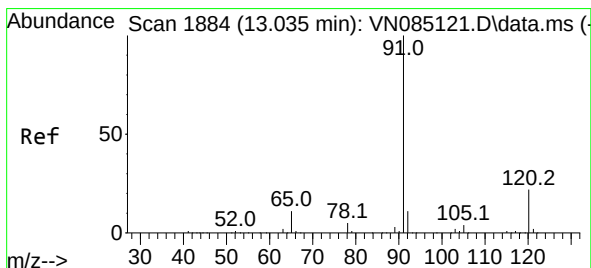
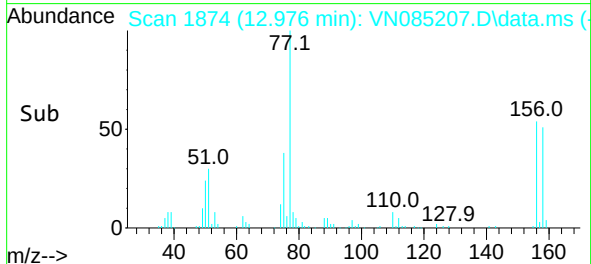
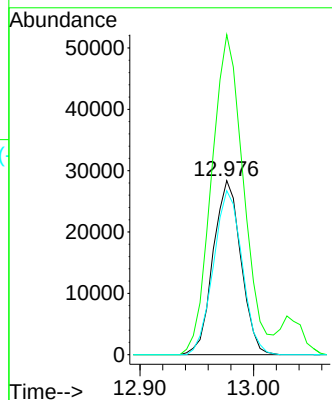
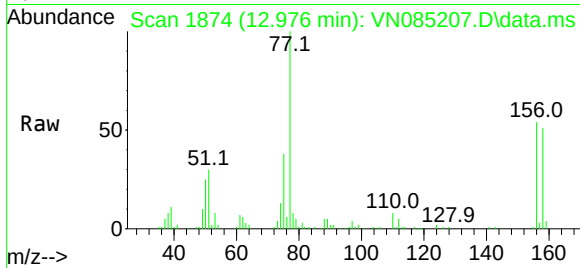




#73
Bromobenzene
Concen: 19.638 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

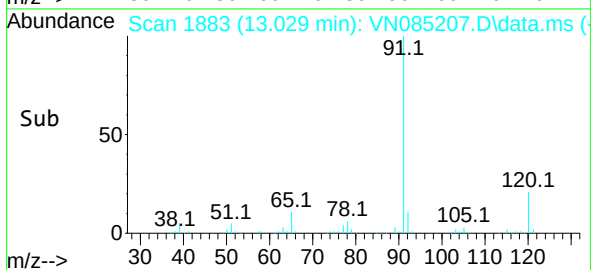
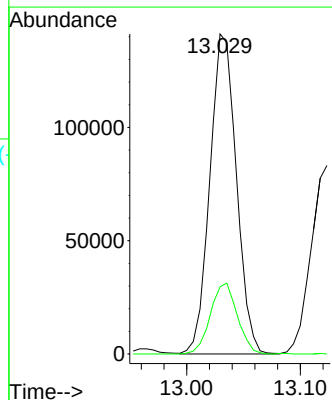
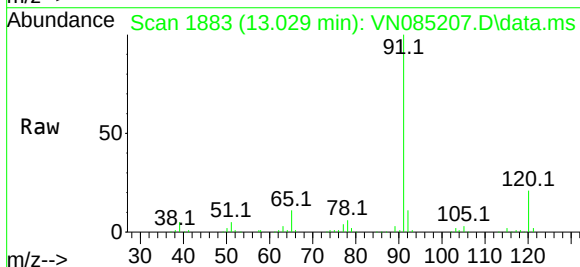
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

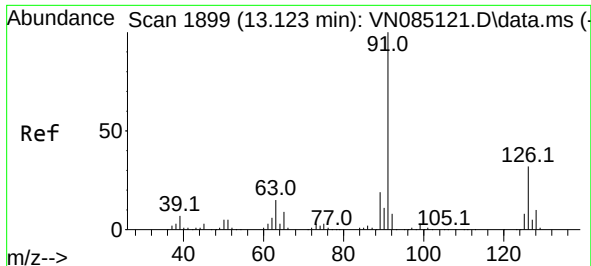
Tgt Ion:156 Resp: 48280
Ion Ratio Lower Upper
156 100
77 211.6 0.0 430.4
158 97.0 0.0 195.2



#74
n-propylbenzene
Concen: 19.456 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 91 Resp: 229571
Ion Ratio Lower Upper
91 100
120 22.3 0.0 44.0

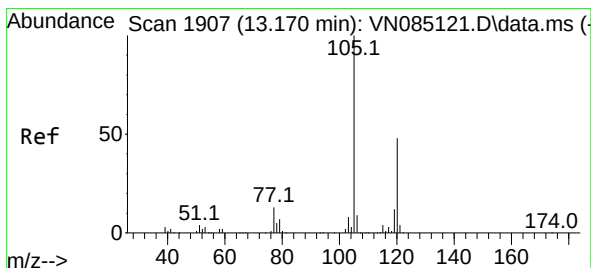
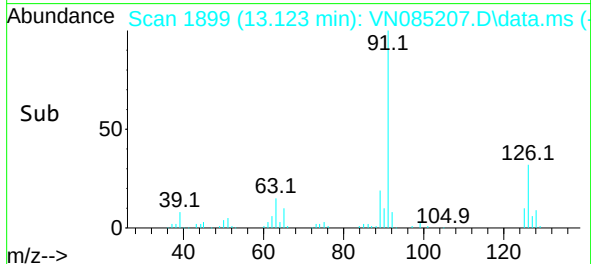
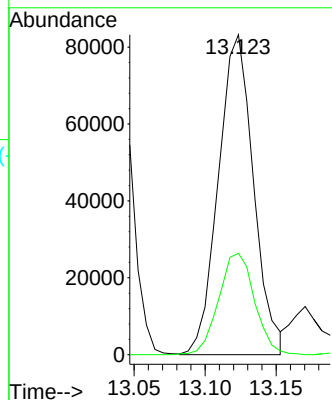
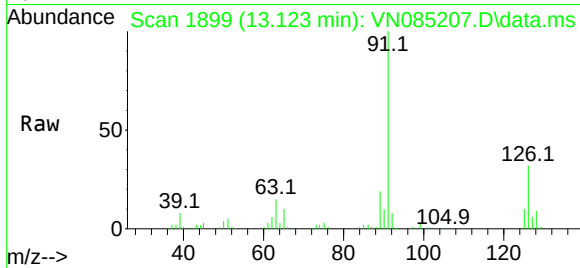




#75
2-Chlorotoluene
Concen: 19.627 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

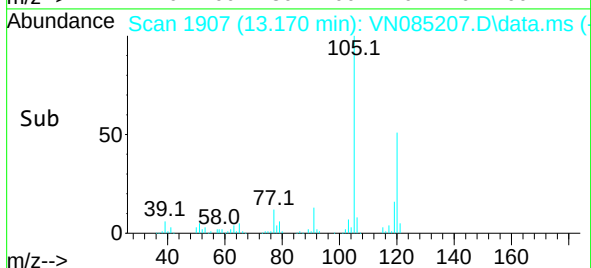
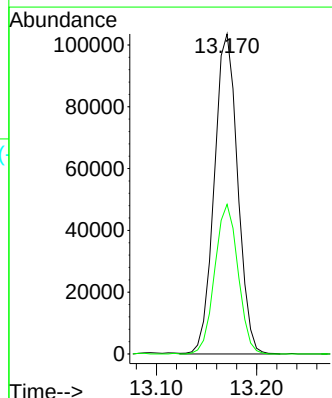
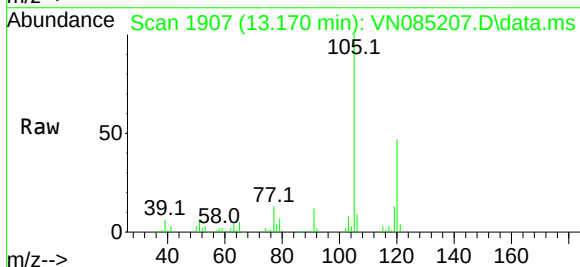
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

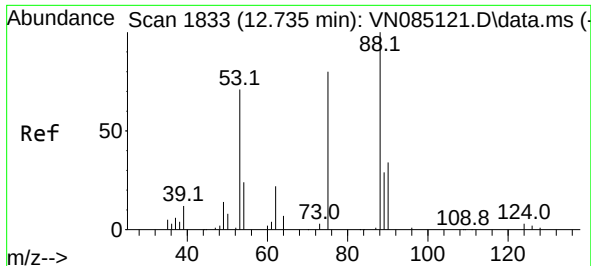
Tgt Ion: 91 Resp: 143192
Ion Ratio Lower Upper
91 100
126 32.3 0.0 64.2



#76
1,3,5-Trimethylbenzene
Concen: 19.931 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 105 Resp: 167597
Ion Ratio Lower Upper
105 100
120 46.5 0.0 94.4

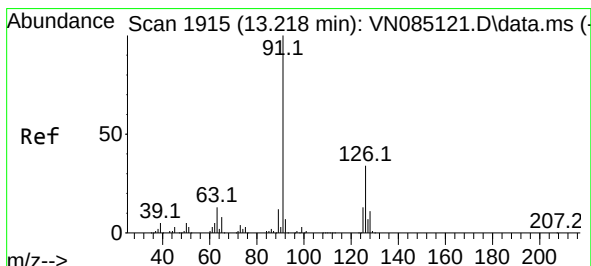
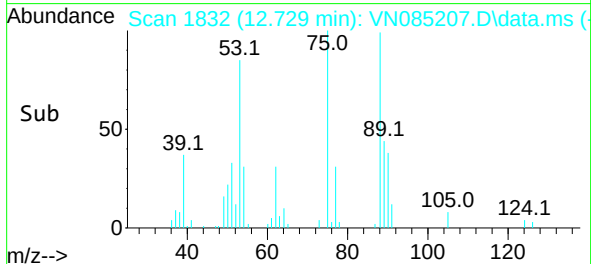
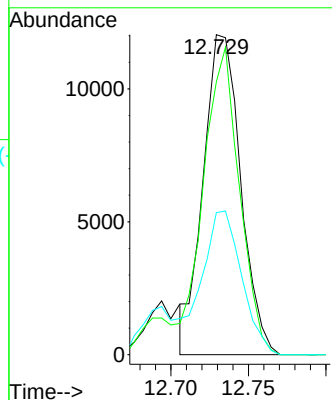
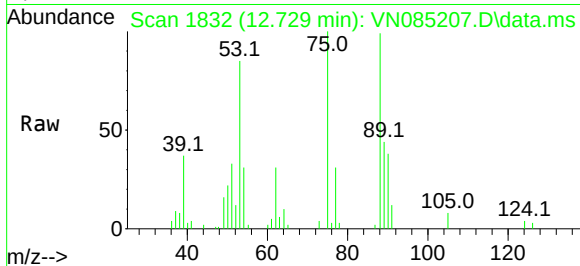




#77
t-1,4-Dichloro-2-butene
Concen: 18.888 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. -0.006 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

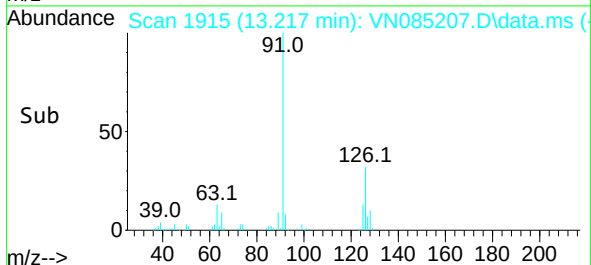
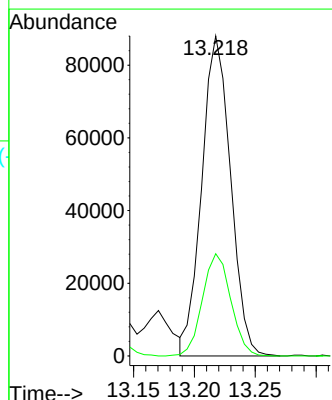
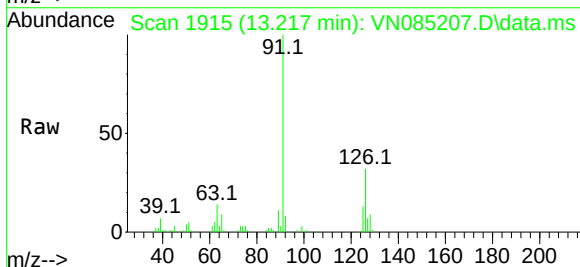
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

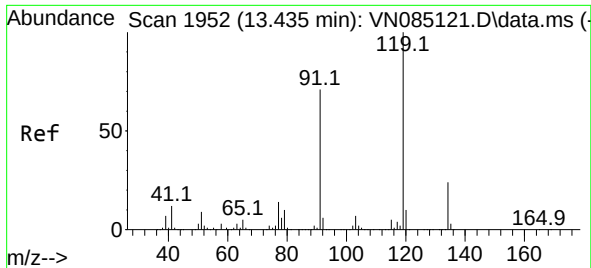
Tgt Ion: 75	Resp: 20254
Ion Ratio	Lower Upper
75 100	
53 85.3	49.1 147.3
89 44.4	22.9 68.5



#78
4-Chlorotoluene
Concen: 19.557 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion: 91	Resp: 144822
Ion Ratio	Lower Upper
91 100	
126 31.4	0.0 64.4

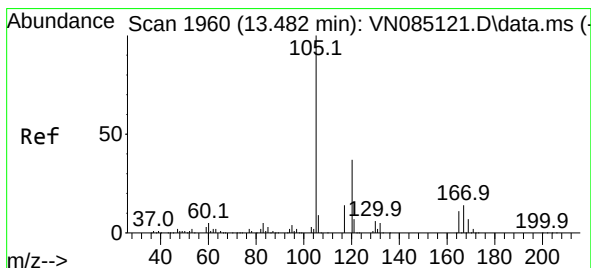
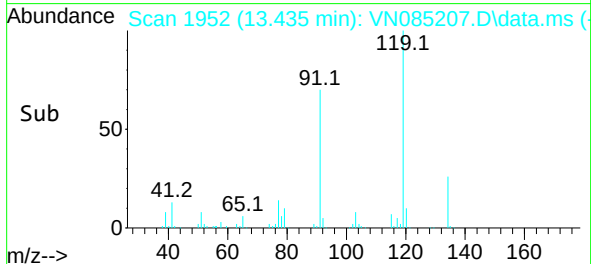
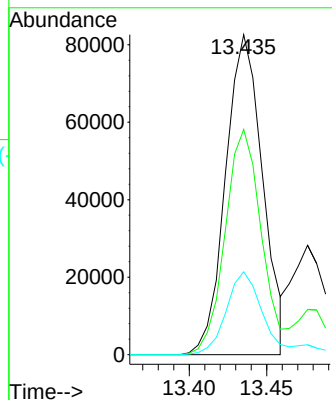
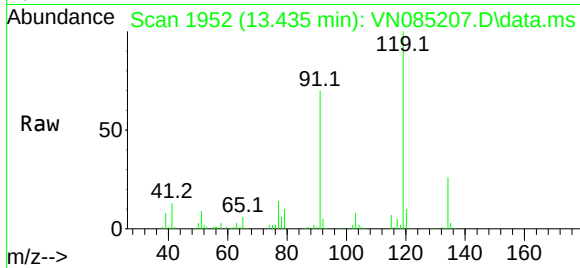




#79
tert-butylbenzene
Concen: 19.890 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

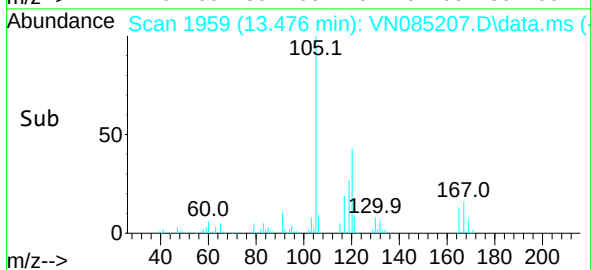
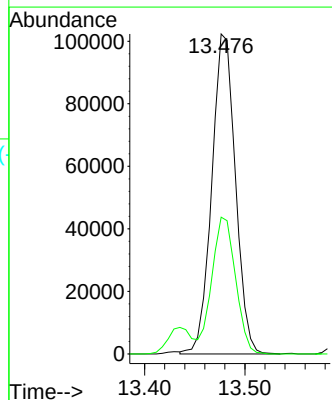
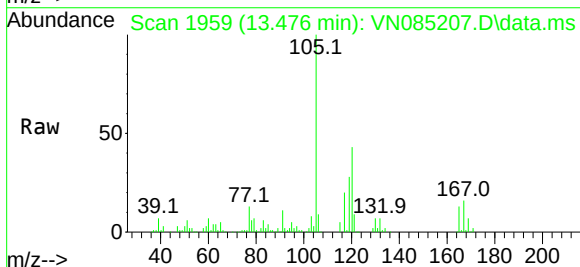
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

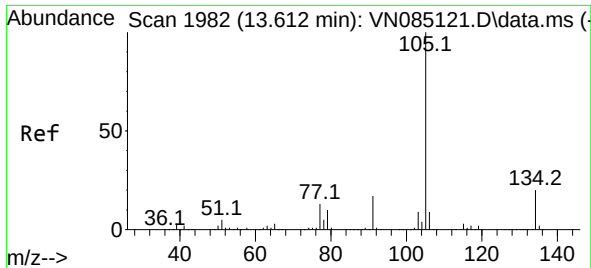
Tgt Ion:119 Resp: 137376
Ion Ratio Lower Upper
119 100
91 68.0 0.0 139.2
134 24.8 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 20.193 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085207.D
Acq: 16 Dec 2024 09:42

Tgt Ion:105 Resp: 167722
Ion Ratio Lower Upper
105 100
120 42.7 0.0 87.4

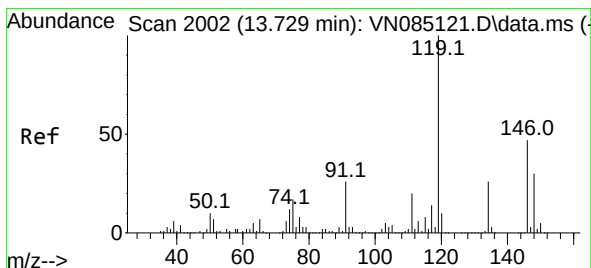
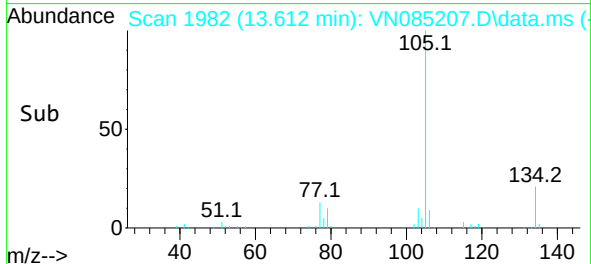
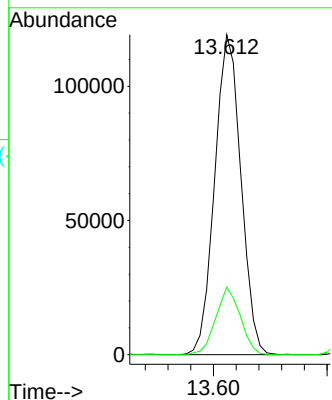
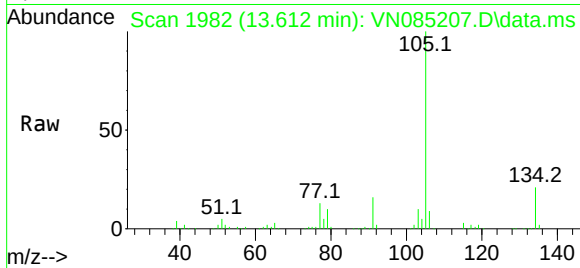




#81
 sec-Butylbenzene
 Concen: 19.466 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

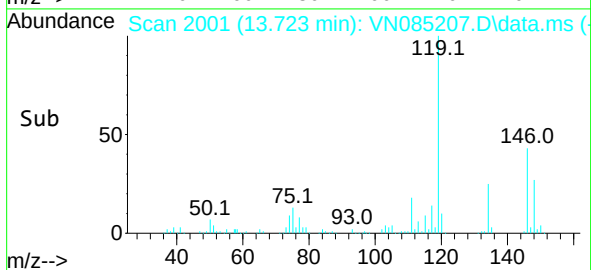
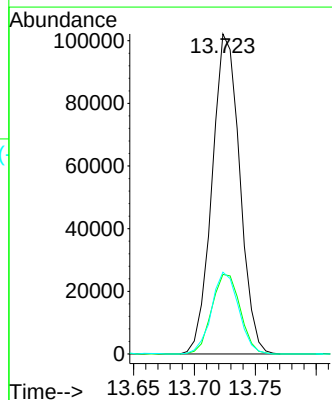
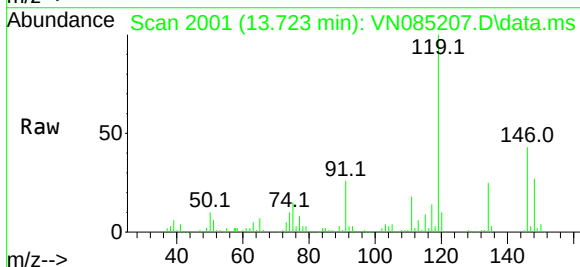
Instrument :
 MSVOA_N
 ClientSampleId :
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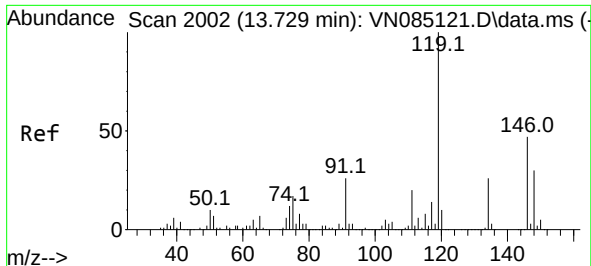
Tgt Ion:105 Resp: 191002
 Ion Ratio Lower Upper
 105 100
 134 19.8 0.0 38.0



#82
 p-Isopropyltoluene
 Concen: 19.841 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.006 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

Tgt Ion:119 Resp: 161402
 Ion Ratio Lower Upper
 119 100
 134 25.6 0.0 51.6
 91 25.1 0.0 50.4

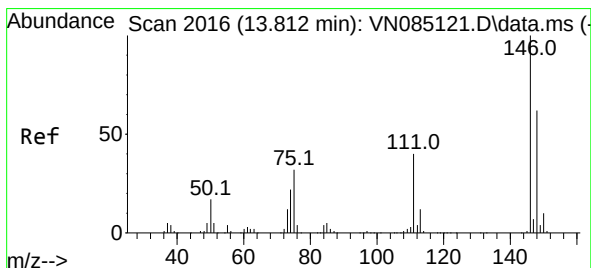
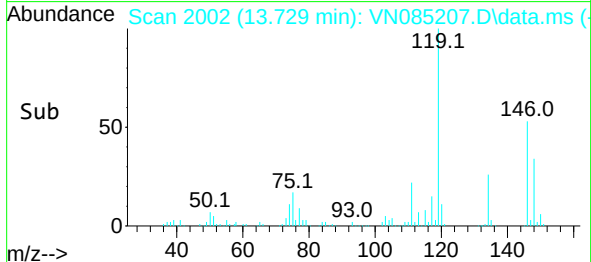
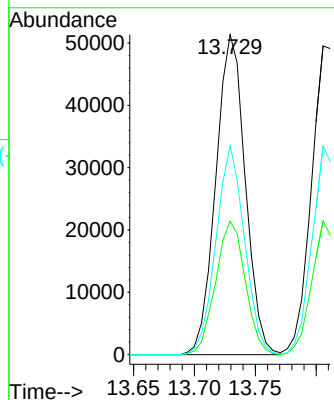
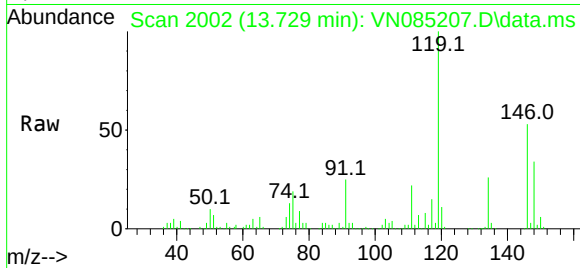




#83
 1,3-Dichlorobenzene
 Concen: 19.150 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

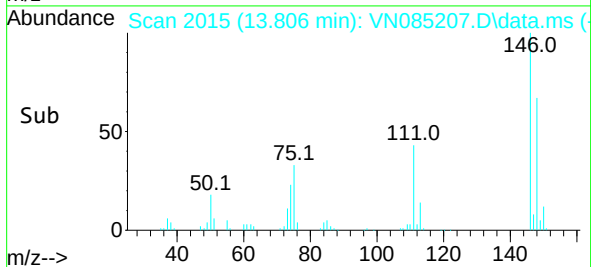
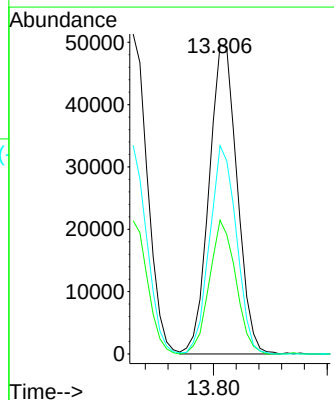
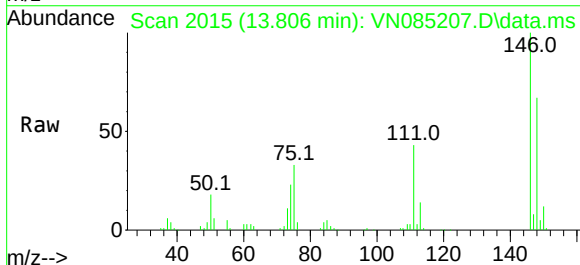
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 MSVOA_N
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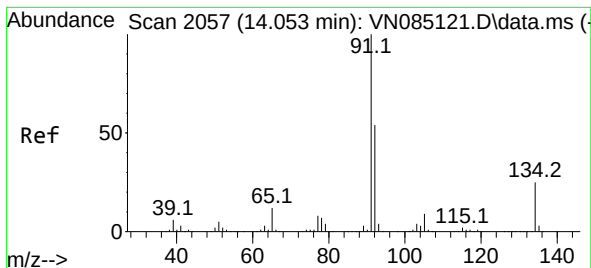
Tgt Ion:146 Resp: 86373
 Ion Ratio Lower Upper
 146 100
 111 41.9 21.1 63.3
 148 63.3 31.8 95.3



#84
 1,4-Dichlorobenzene
 Concen: 19.386 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: VN085207.D
 Acq: 16 Dec 2024 09:42

Tgt Ion:146 Resp: 85216
 Ion Ratio Lower Upper
 146 100
 111 40.6 20.1 60.3
 148 64.3 31.6 94.7





#85

n-Butylbenzene

Concen: 19.359 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

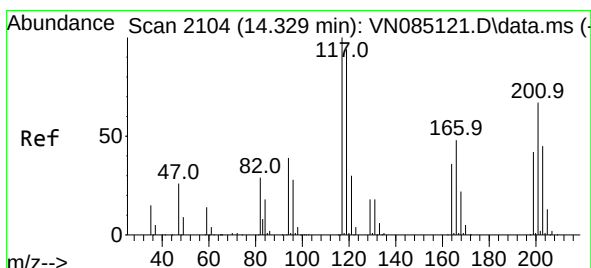
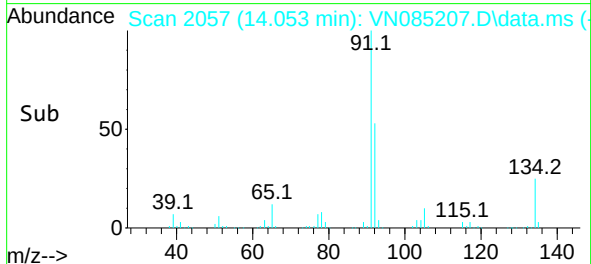
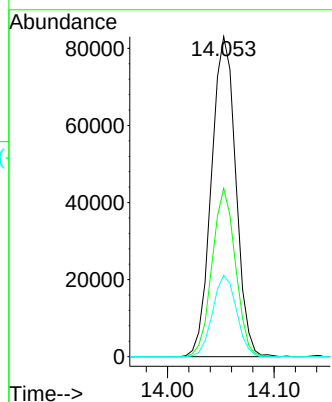
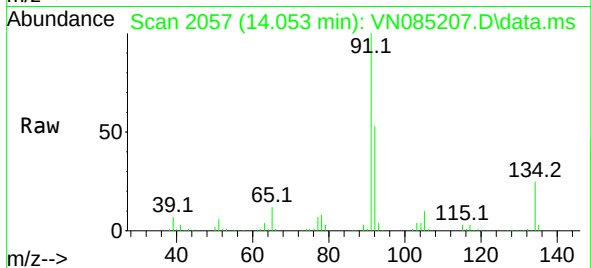
Tgt Ion: 91 Resp: 132097

Ion Ratio Lower Upper

91 100

92 50.3 0.0 104.0

134 24.9 0.0 49.2



#86

Hexachloroethane

Concen: 19.297 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.006 min

Lab File: VN085207.D

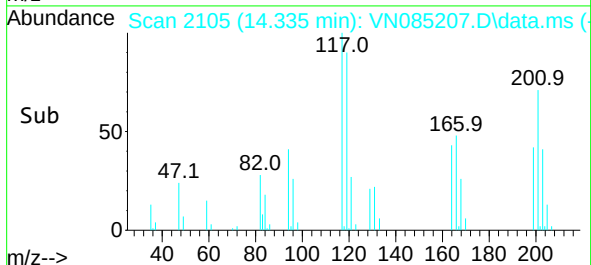
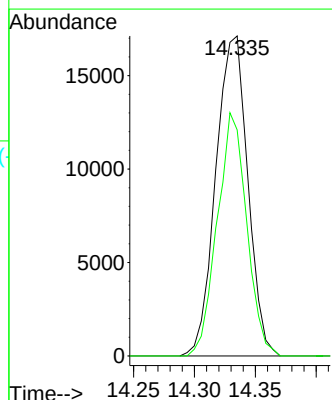
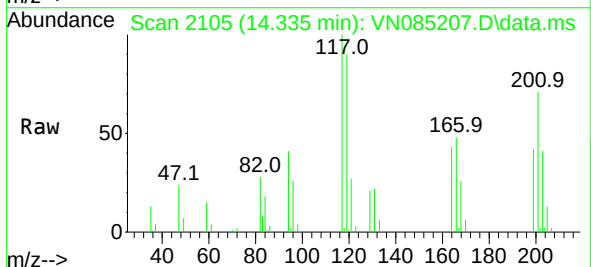
Acq: 16 Dec 2024 09:42

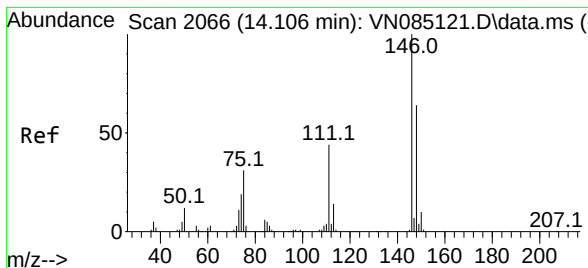
Tgt Ion: 117 Resp: 31250

Ion Ratio Lower Upper

117 100

201 70.2 34.1 102.3





#87

1,2-Dichlorobenzene

Concen: 19.338 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

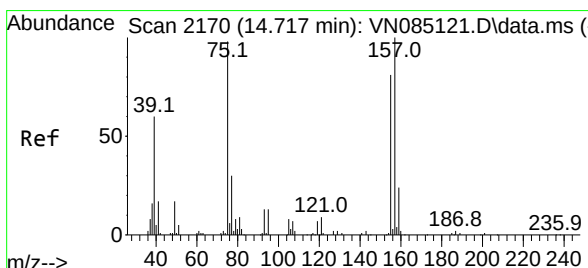
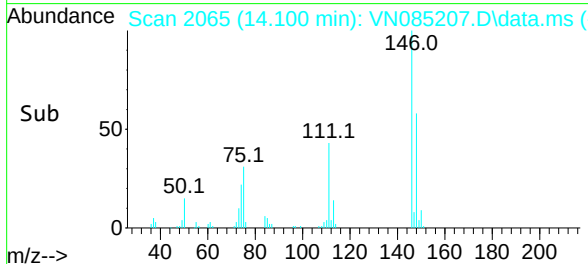
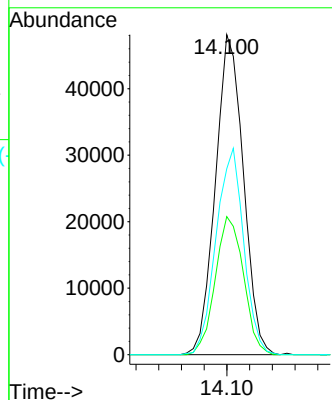
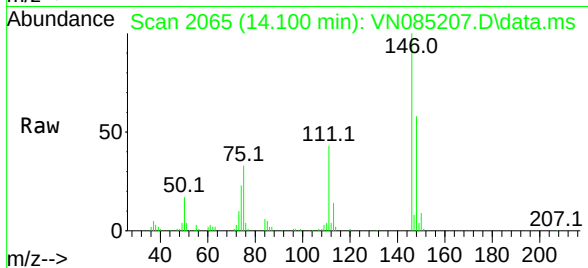
Tgt Ion:146 Resp: 82331

Ion Ratio Lower Upper

146 100

111 43.6 21.9 65.7

148 63.8 32.4 97.0



#88

1,2-Dibromo-3-Chloropropane

Concen: 17.026 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

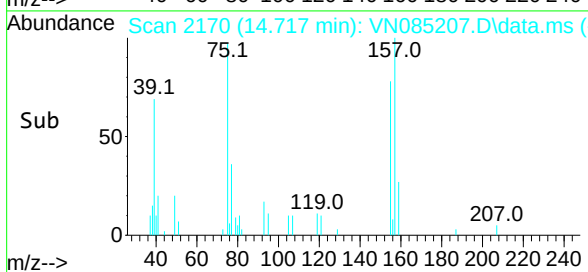
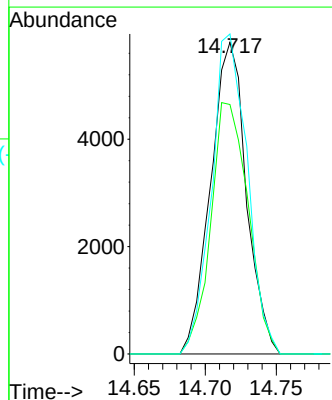
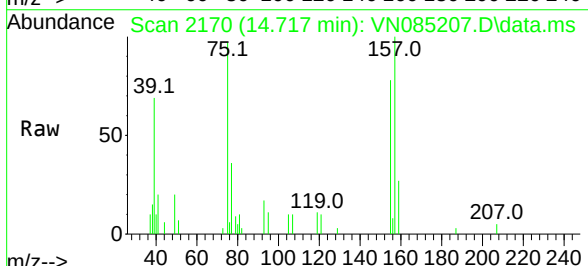
Tgt Ion: 75 Resp: 10161

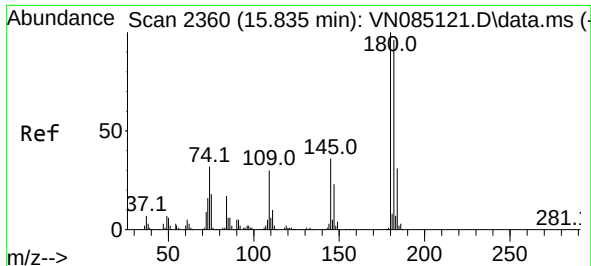
Ion Ratio Lower Upper

75 100

155 84.2 62.1 93.1

157 102.2 79.3 118.9





#89

1,2,4-Trichlorobenzene

Concen: 19.190 ug/l

RT: 15.835 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

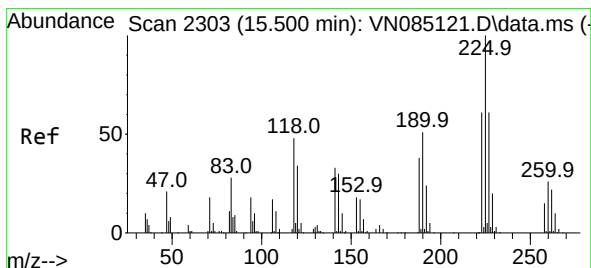
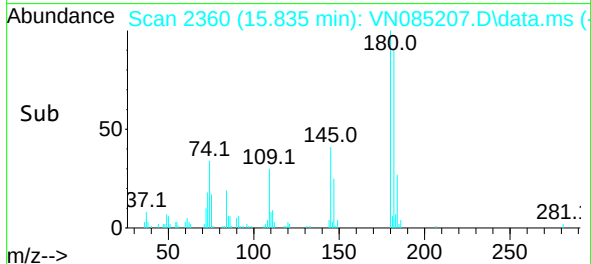
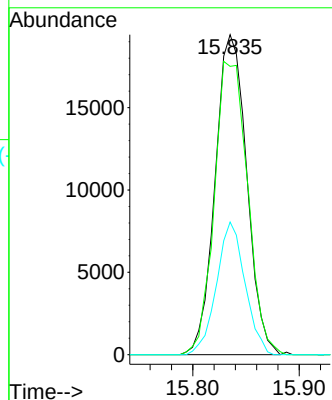
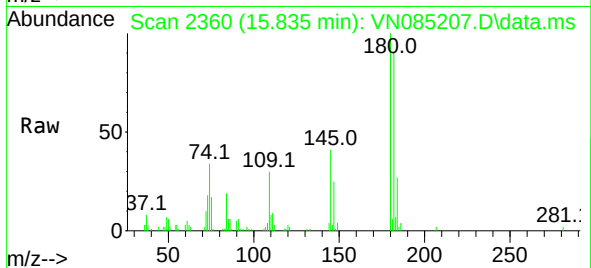
Tgt Ion:180 Resp: 40011

Ion Ratio Lower Upper

180 100

182 96.5 74.0 111.0

145 37.4 28.6 43.0



#90

Hexachlorobutadiene

Concen: 19.995 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

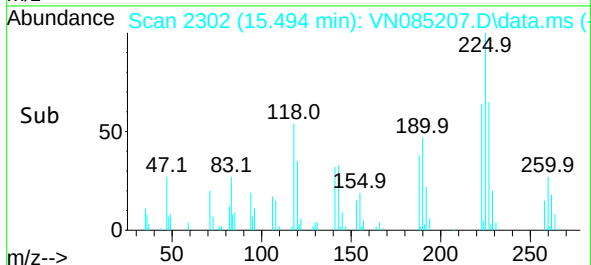
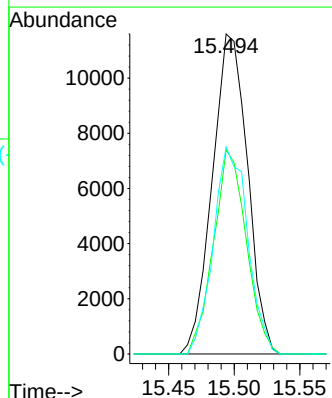
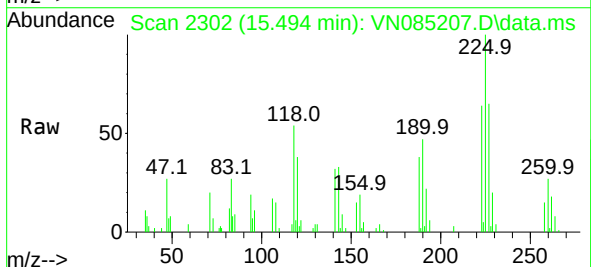
Tgt Ion:225 Resp: 21664

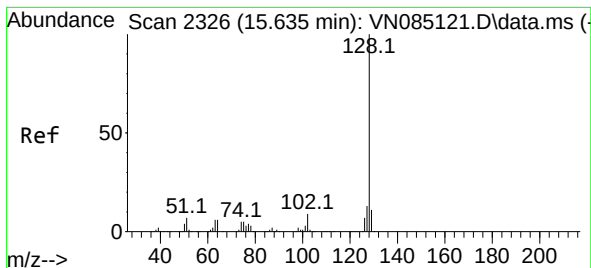
Ion Ratio Lower Upper

225 100

223 59.5 0.0 121.8

227 63.0 0.0 126.8





#91

Naphthalene

Concen: 18.602 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

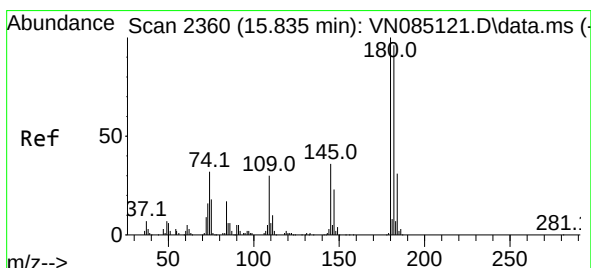
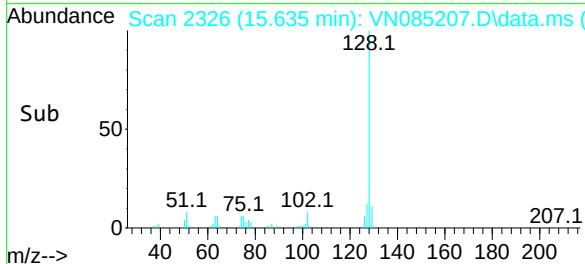
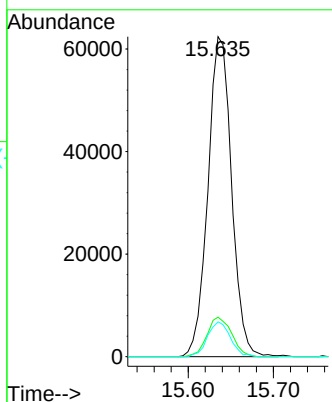
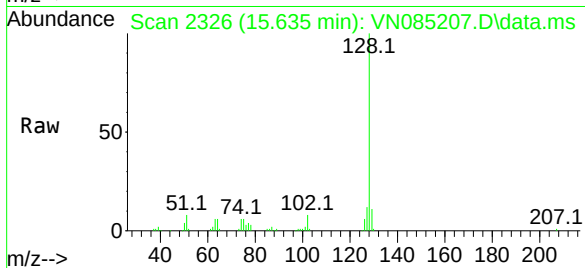
Tgt Ion:128 Resp: 120498

Ion Ratio Lower Upper

128 100

127 12.9 11.0 16.4

129 10.5 8.7 13.1



#92

1,2,3-Trichlorobenzene

Concen: 19.190 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085207.D

Acq: 16 Dec 2024 09:42

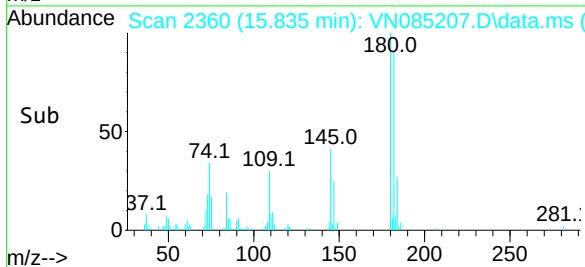
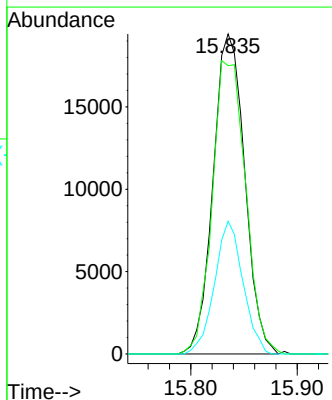
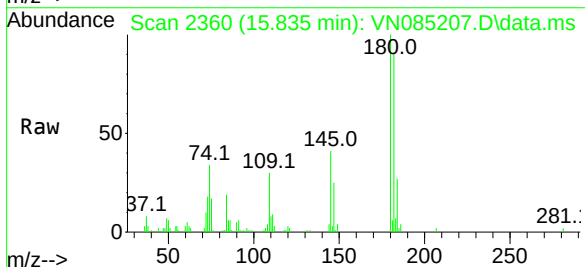
Tgt Ion:180 Resp: 40011

Ion Ratio Lower Upper

180 100

182 96.5 0.0 185.0

145 37.4 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085208.D
 Acq On : 16 Dec 2024 10:19
 Operator : JC\MD
 Sample : VN1216WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

Quant Time: Dec 16 12:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	30825	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	169823	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	155663	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	73444	30.028	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.100%
60) 4-Bromofluorobenzene	12.847	95	76379	29.655	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.833%
63) Toluene-d8	10.565	98	216652	29.671	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	49525	20.082	ug/l	96
3) Chloromethane	2.359	50	42692	19.558	ug/l	97
4) Vinyl Chloride	2.518	62	42995	19.257	ug/l	97
5) Bromomethane	2.965	94	28290	19.958	ug/l	99
6) Chloroethane	3.124	64	27287	19.893	ug/l	96
7) Trichlorofluoromethane	3.500	101	72626	19.872	ug/l	94
8) Diethyl Ether	3.959	74	22934	19.812	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	38921	19.044	ug/l	92
10) 1,1-Dichloroethene	4.347	96	36972	19.695	ug/l	96
11) Methyl Iodide	4.589	142	45944	17.647	ug/l	98
12) Methyl Acetate	5.024	43	42168	19.041	ug/l	91
13) Acrolein	4.183	56	34873	108.358	ug/l	94
14) Acrylonitrile	5.718	53	85647	93.137	ug/l	97
15) Acetone	4.430	58	25905	103.954	ug/l	96
16) Carbon Disulfide	4.712	76	106931	19.057	ug/l	99
17) Allyl chloride	5.024	41	53377	19.871	ug/l	94
18) Methylene Chloride	5.277	84	39484	18.537	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	38087	19.519	ug/l	89
20) Diisopropyl ether	6.665	45	115380	19.573	ug/l	97
21) 1,1-Dichloroethane	6.559	63	71315	19.601	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	43904	19.576	ug/l	99
23) tert-Butyl Alcohol	5.506	59	31898	96.694	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	116497	19.863	ug/l #	76
25) Chloroform	7.965	83	75307	19.757	ug/l	94
26) Cyclohexane	8.253	56	57940	19.340	ug/l #	95
29) 1,1-Dichloropropene	8.365	75	50315	18.361	ug/l	99
30) 2-Butanone	7.483	43	116422	92.579	ug/l	99
31) 2,2-Dichloropropane	7.488	77	65751	18.711	ug/l #	100
32) 1,1,1-Trichloroethane	8.171	97	69008	18.605	ug/l	97
33) Carbon Tetrachloride	8.359	117	63544	18.985	ug/l	94
34) Benzene	8.606	78	158668	18.431	ug/l	99
35) Methacrylonitrile	7.777	41	26103	18.445	ug/l	87
36) 1,2-Dichloroethane	8.665	62	53550	18.273	ug/l	100
37) Trichloroethene	9.347	130	37914	18.494	ug/l	95
38) Methylcyclohexane	9.600	83	55860	18.747	ug/l	95
39) 1,2-Dichloropropane	9.618	63	38631	18.527	ug/l	98
40) Dibromomethane	9.706	93	27987	18.712	ug/l	97
41) Bromodichloromethane	9.882	83	58391	18.262	ug/l	96
42) Vinyl Acetate	6.600	43	416125	94.564	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085208.D
 Acq On : 16 Dec 2024 10:19
 Operator : JC\MD
 Sample : VN1216WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

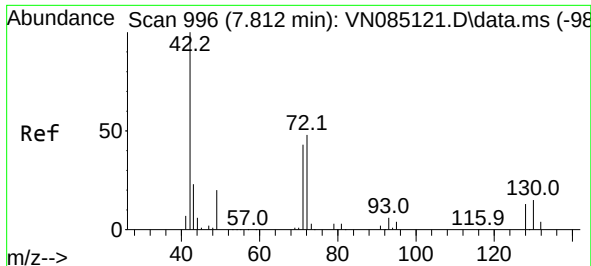
Quant Time: Dec 16 12:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	46077	18.415	ug/l	92
44) Isopropyl Acetate	8.682	43	79121	18.196	ug/l	100
45) 1,4-Dioxane	9.694	88	13749	379.179	ug/l	98
46) Methyl methacrylate	9.677	41	36110	18.146	ug/l	95
47) n-amyl Acetate	12.488	43	65132	17.803	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	57919	18.453	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	63332	18.535	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	36370	18.046	ug/l	91
51) Ethyl methacrylate	10.871	69	55409	18.076	ug/l	98
52) 1,3-Dichloropropane	11.159	76	61421	18.210	ug/l	99
53) Dibromochloromethane	11.353	129	45949	18.708	ug/l	99
54) 1,2-Dibromoethane	11.465	107	37104	18.272	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	86871	61.005	ug/l	100
56) Bromoform	12.576	173	29455	17.887	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	230551	90.751	ug/l	98
59) 2-Hexanone	11.194	43	172668	89.701	ug/l	97
61) Tetrachloroethene	11.100	164	36077	19.138	ug/l	91
62) Toluene	10.624	91	171579	18.900	ug/l	100
64) Chlorobenzene	11.888	112	105060	18.744	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.953	131	38827	18.556	ug/l	98
66) Ethyl Benzene	11.959	91	180124	18.698	ug/l	96
67) m/p-Xylenes	12.070	106	140933	38.037	ug/l	98
68) o-Xylene	12.394	106	66910	19.229	ug/l	97
69) Styrene	12.406	104	110123	18.651	ug/l	99
70) Isopropylbenzene	12.694	105	172891	19.264	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	50789	18.592	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	66535	24.657	ug/l	75
73) Bromobenzene	12.976	156	41970	18.670	ug/l	99
74) n-propylbenzene	13.029	91	200993	18.628	ug/l	99
75) 2-Chlorotoluene	13.123	91	126691	18.991	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	148740	19.344	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	18403	18.768	ug/l	99
78) 4-Chlorotoluene	13.217	91	127983	18.901	ug/l	99
79) tert-butylbenzene	13.435	119	119374	18.902	ug/l	96
80) 1,2,4-Trimethylbenzene	13.476	105	147735	19.451	ug/l	99
81) sec-Butylbenzene	13.612	105	170821	19.039	ug/l	99
82) p-Isopropyltoluene	13.723	119	143795	19.331	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	76871	18.638	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	76385	19.003	ug/l	99
85) n-Butylbenzene	14.053	91	119073	19.083	ug/l	100
86) Hexachloroethane	14.329	117	27875	18.824	ug/l	93
87) 1,2-Dichlorobenzene	14.100	146	72871	18.718	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	9899	18.139	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	37230	19.527	ug/l	96
90) Hexachlorobutadiene	15.494	225	20120	20.308	ug/l	97
91) Naphthalene	15.635	128	112126	18.930	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	37230	19.527	ug/l	96

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

Quant Time: Dec 16 12:21:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

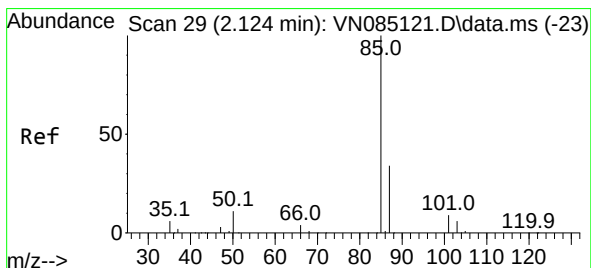
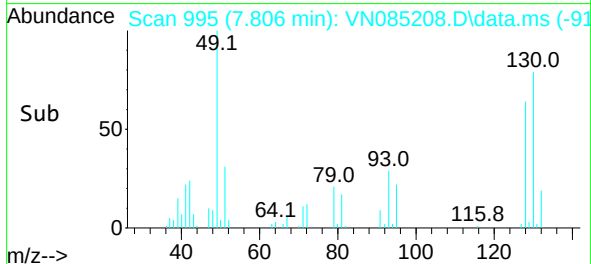
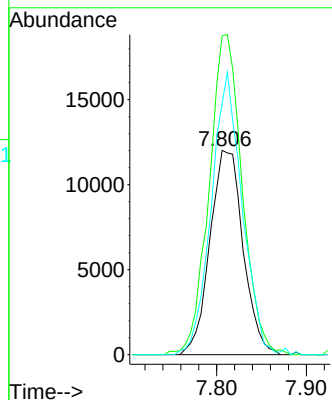
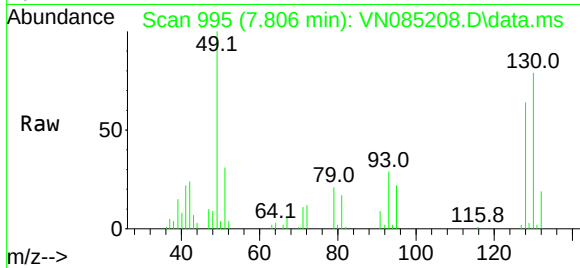




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 996
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

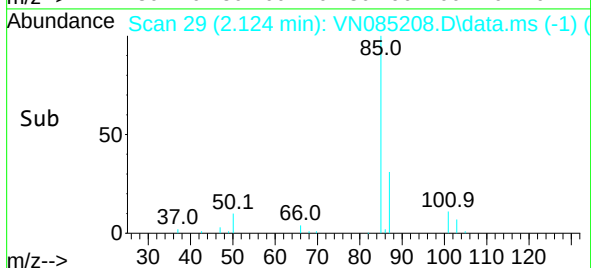
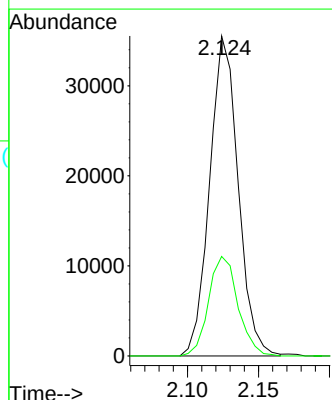
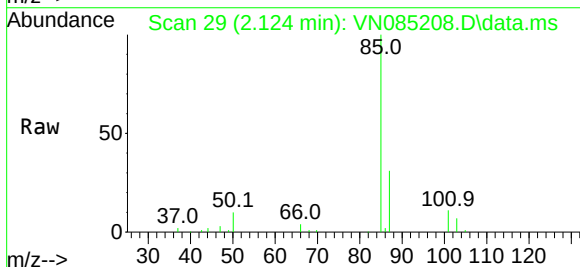
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

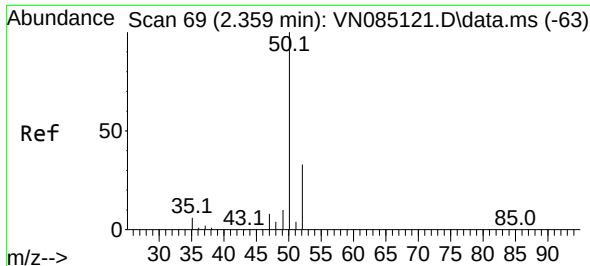
Tgt Ion:	128	Resp:	30825
Ion	Ratio	Lower	Upper
128	100		
49	156.0	0.0	394.5
130	128.2	0.0	316.5



#2
Dichlorodifluoromethane
Concen: 20.082 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:	85	Resp:	49525
Ion	Ratio	Lower	Upper
85	100		
87	31.1	16.8	50.3

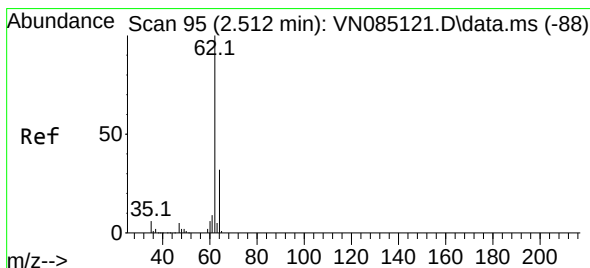
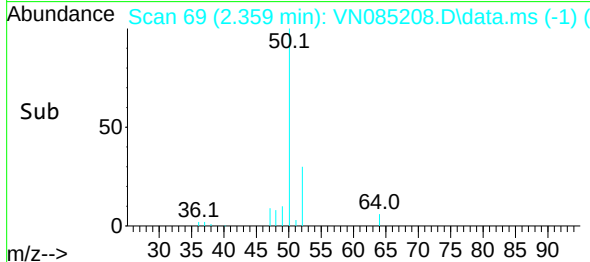
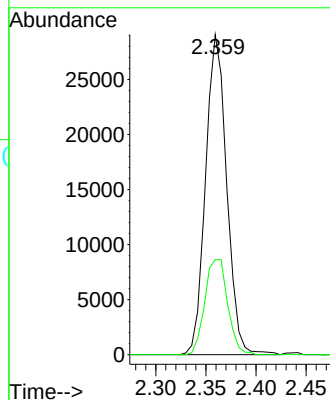
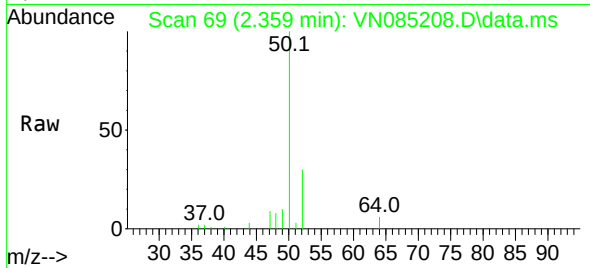




#3
Chloromethane
Concen: 19.558 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

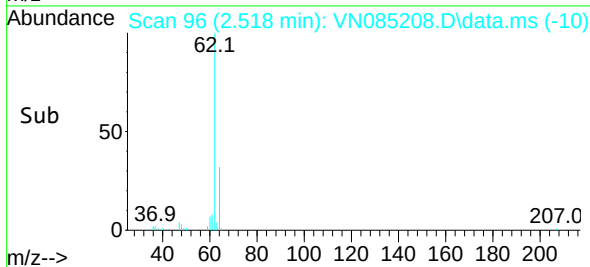
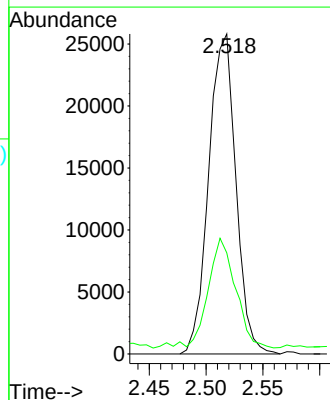
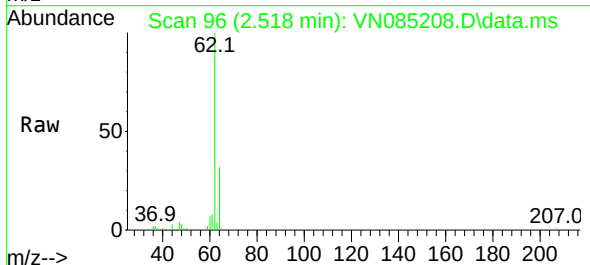
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

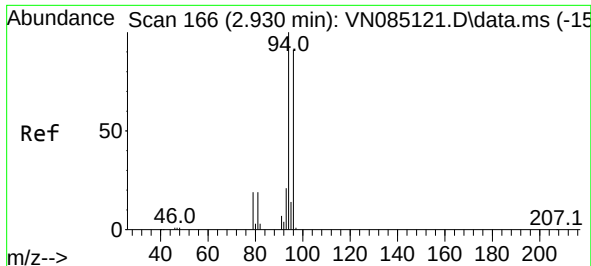
Tgt Ion: 50 Resp: 42692
Ion Ratio Lower Upper
50 100
52 29.7 25.0 37.4



#4
Vinyl Chloride
Concen: 19.257 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 62 Resp: 42995
Ion Ratio Lower Upper
62 100
64 29.6 24.9 37.3

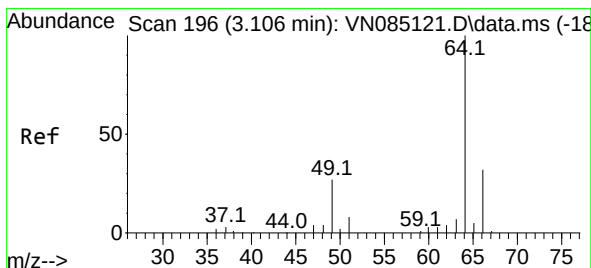
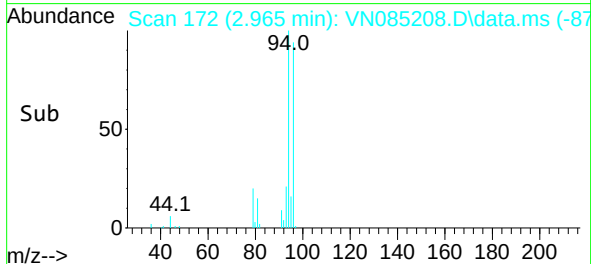
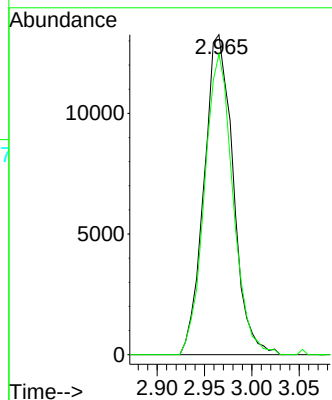
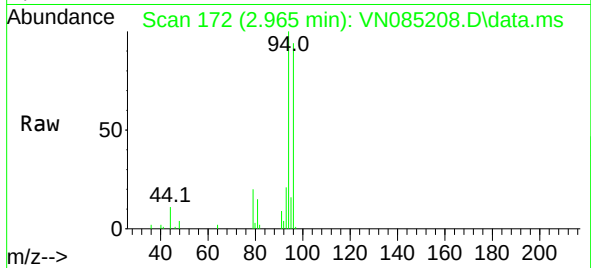




#5
Bromomethane
Concen: 19.958 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

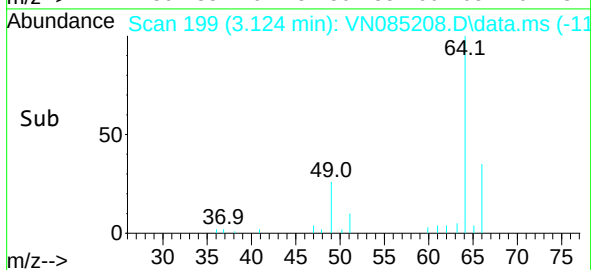
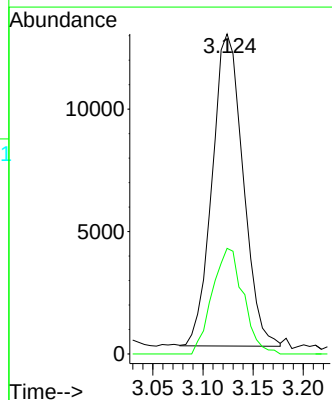
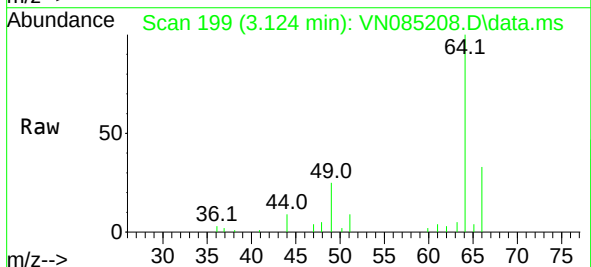
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

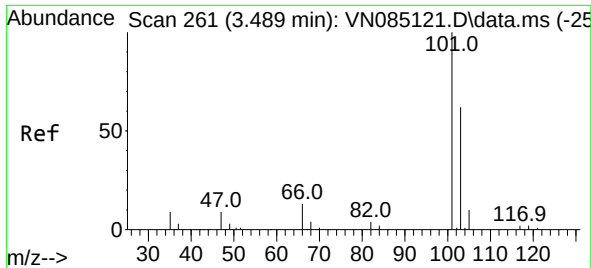
Tgt Ion: 94 Resp: 28290
Ion Ratio Lower Upper
94 100
96 93.9 76.2 114.4



#6
Chloroethane
Concen: 19.893 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 64 Resp: 27287
Ion Ratio Lower Upper
64 100
66 33.9 25.5 38.3

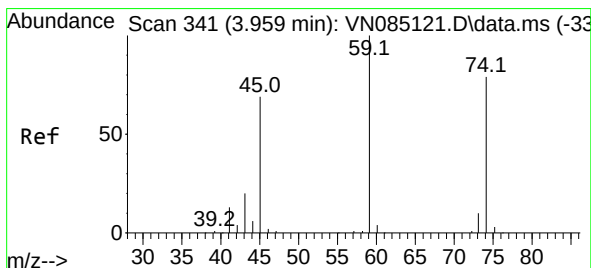
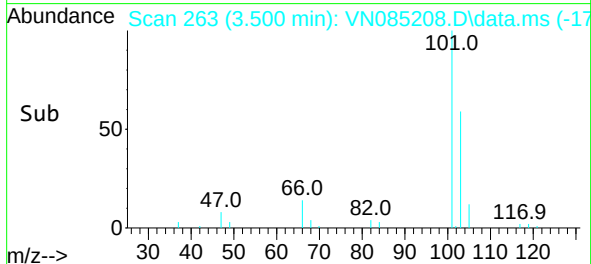
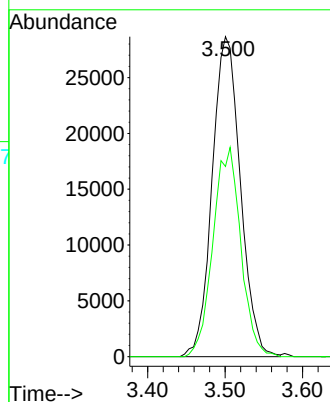
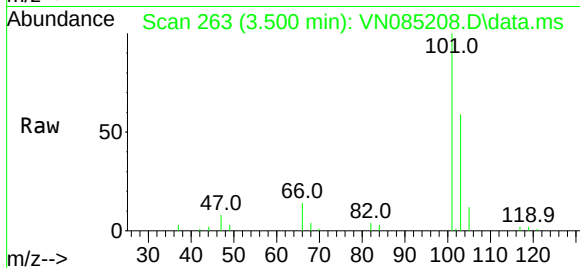




#7
 Trichlorofluoromethane
 Concen: 19.872 ug/l
 RT: 3.500 min Scan# 261
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

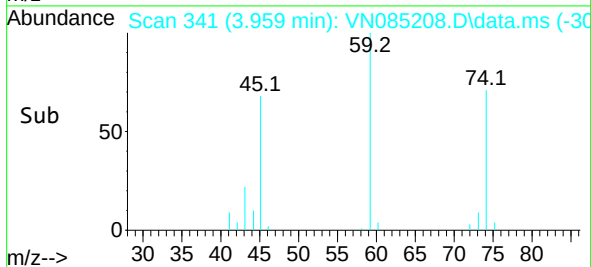
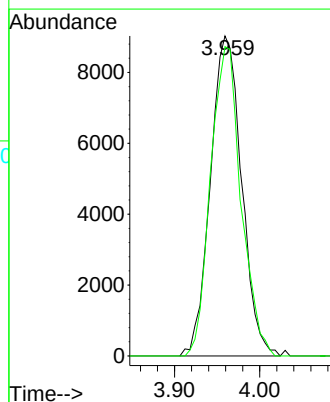
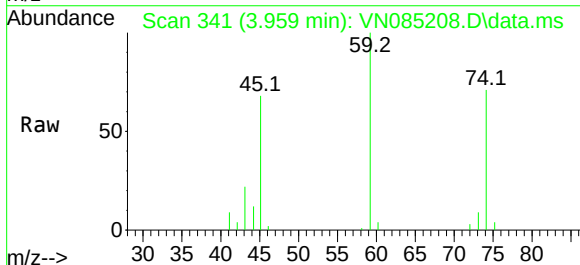
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

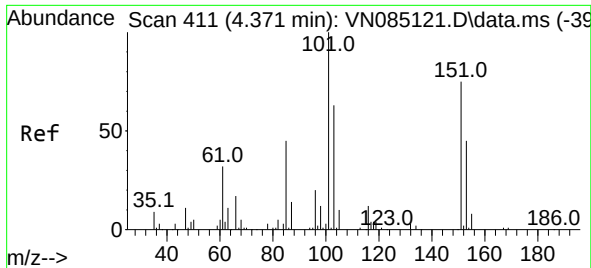
Tgt Ion:101 Resp: 72626
 Ion Ratio Lower Upper
 101 100
 103 59.5 51.3 76.9



#8
 Diethyl Ether
 Concen: 19.812 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Tgt Ion: 74 Resp: 22934
 Ion Ratio Lower Upper
 74 100
 45 94.4 18.6 167.8

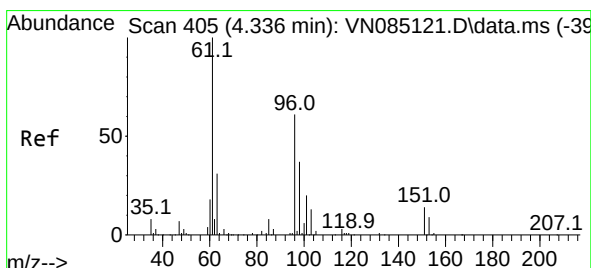
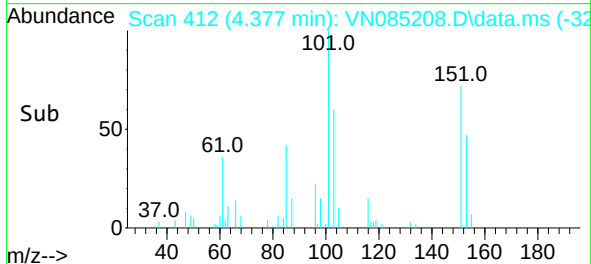
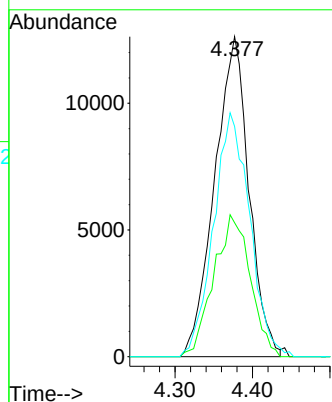
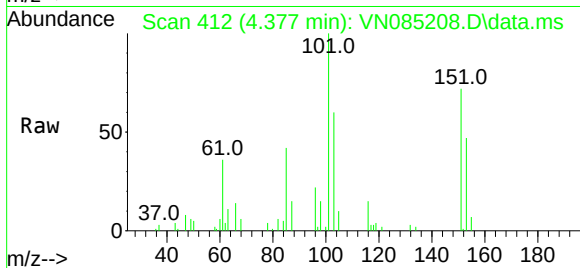




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.044 ug/l
 RT: 4.377 min Scan# 411
 Delta R.T. 0.006 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

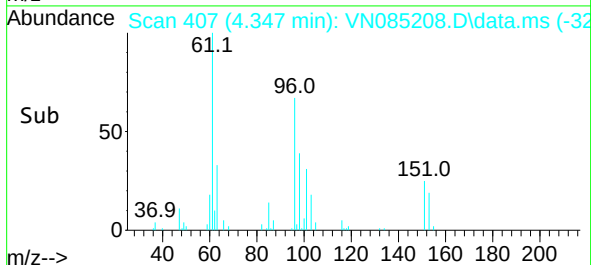
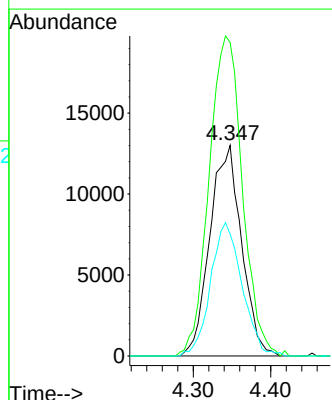
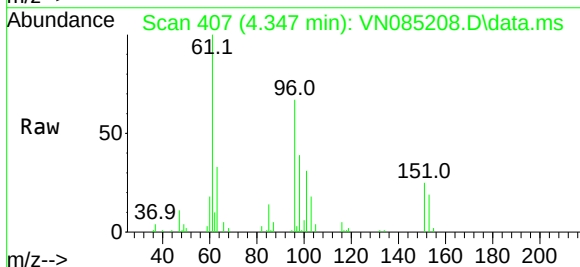
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

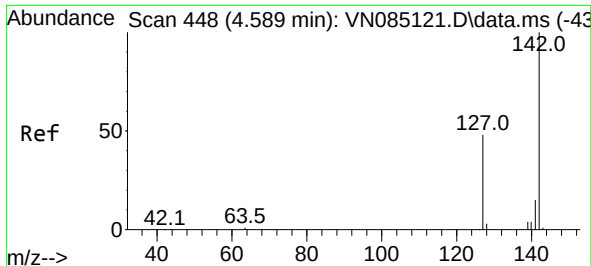
Tgt Ion:101 Resp: 38921
 Ion Ratio Lower Upper
 101 100
 85 32.3 0.0 88.6
 151 80.3 0.0 155.8



#10
 1,1-Dichloroethene
 Concen: 19.695 ug/l
 RT: 4.347 min Scan# 407
 Delta R.T. 0.006 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Tgt Ion: 96 Resp: 36972
 Ion Ratio Lower Upper
 96 100
 61 148.9 123.0 184.4
 98 57.8 49.1 73.7

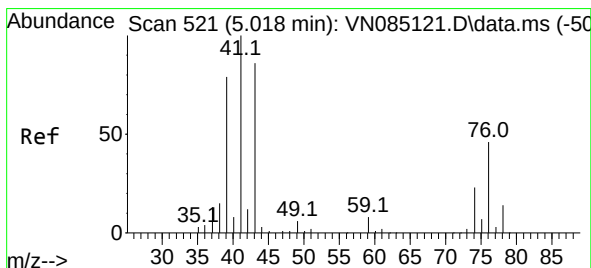
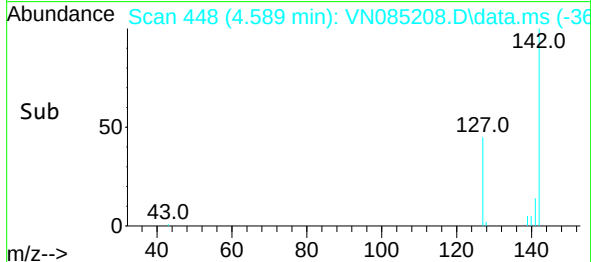
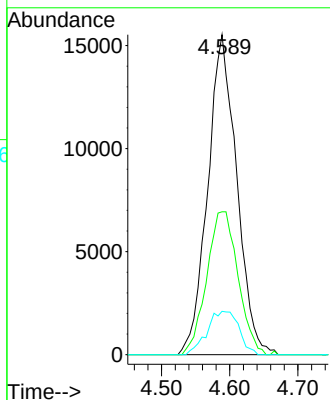
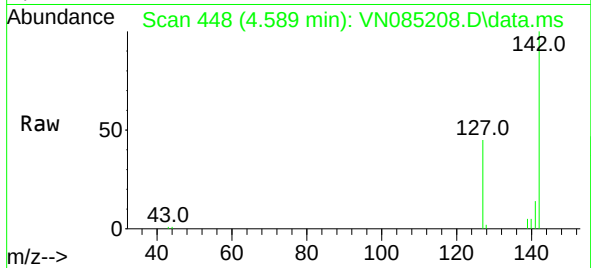




#11
Methyl Iodide
Concen: 17.647 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

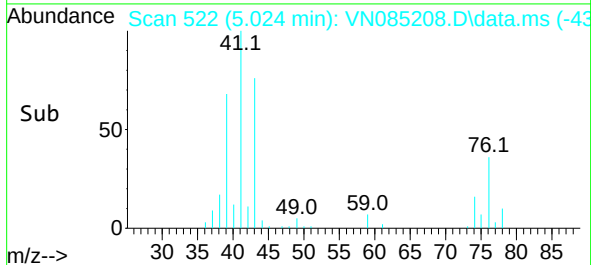
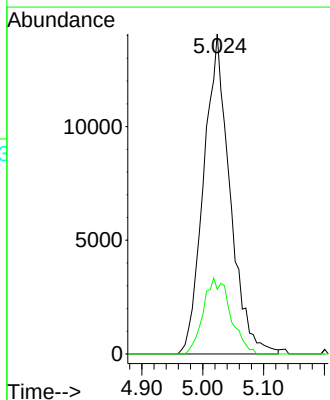
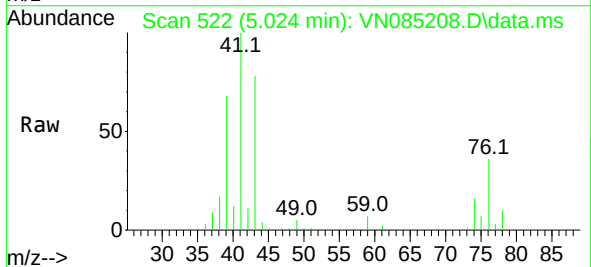
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

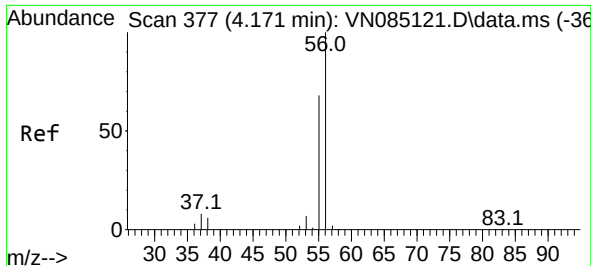
Tgt Ion:142 Resp: 45944
Ion Ratio Lower Upper
142 100
127 44.6 22.5 67.5
141 13.5 8.3 24.9



#12
Methyl Acetate
Concen: 19.041 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 43 Resp: 42168
Ion Ratio Lower Upper
43 100
74 20.3 19.8 29.6





#13

Acrolein

Concen: 108.358 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

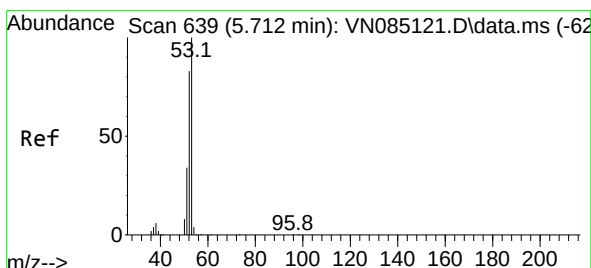
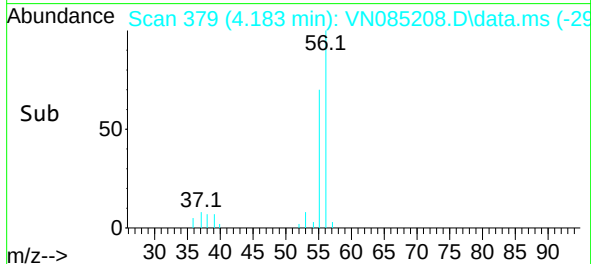
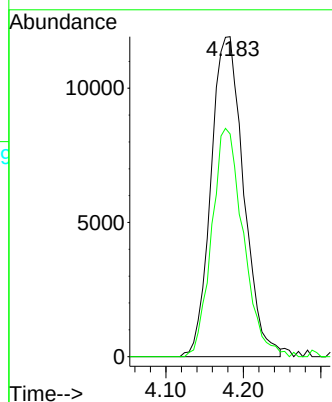
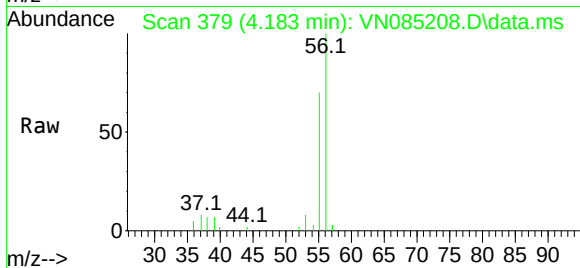
VN1216WBS01

Tgt Ion: 56 Resp: 34873

Ion Ratio Lower Upper

56 100

55 69.0 59.4 89.0



#14

Acrylonitrile

Concen: 93.137 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

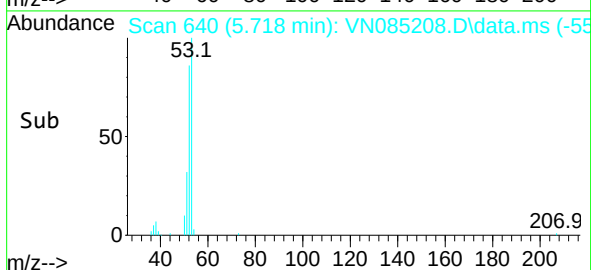
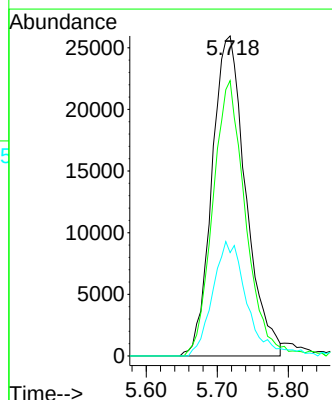
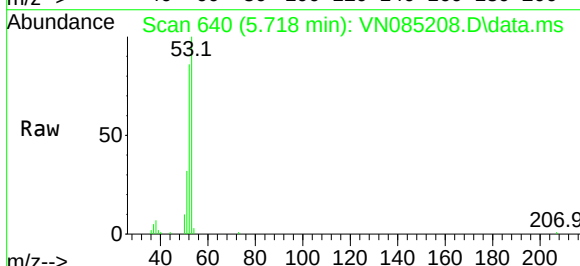
Tgt Ion: 53 Resp: 85647

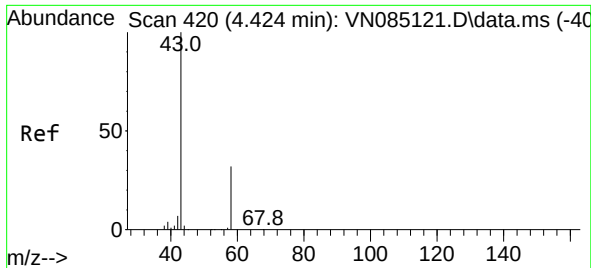
Ion Ratio Lower Upper

53 100

52 82.7 42.9 128.5

51 35.7 17.2 51.5





#15

Acetone

Concen: 103.954 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

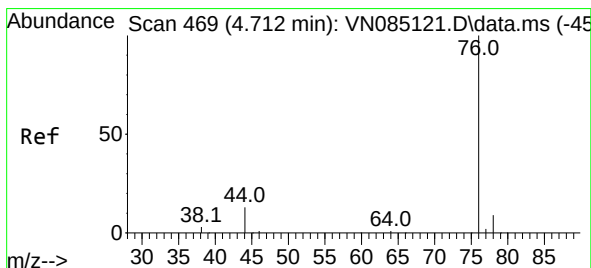
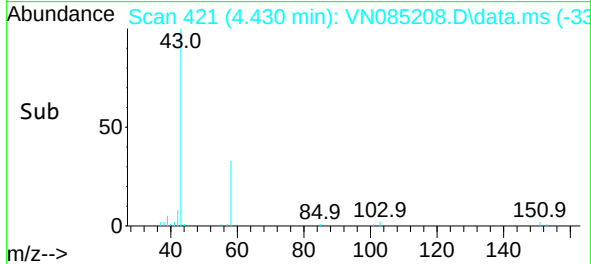
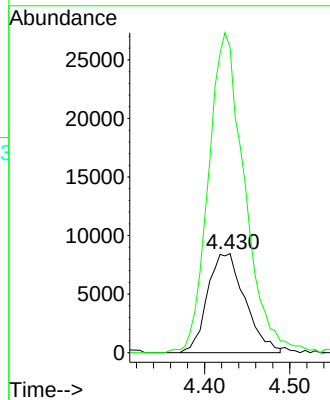
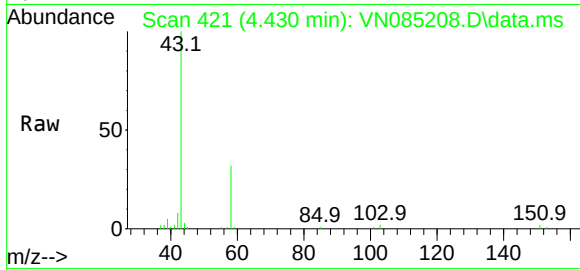
VN1216WBS01

Tgt Ion: 58 Resp: 25905

Ion Ratio Lower Upper

58 100

43 311.0 242.3 363.5



#16

Carbon Disulfide

Concen: 19.057 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085208.D

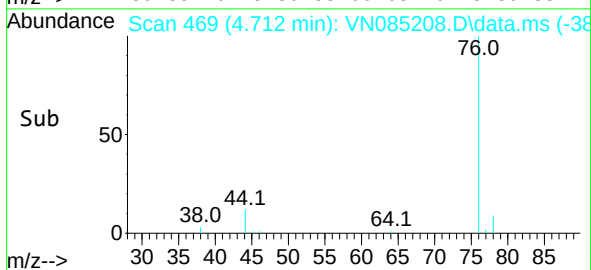
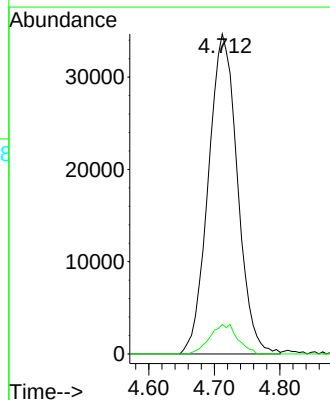
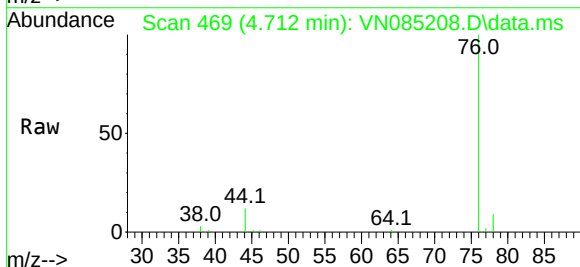
Acq: 16 Dec 2024 10:19

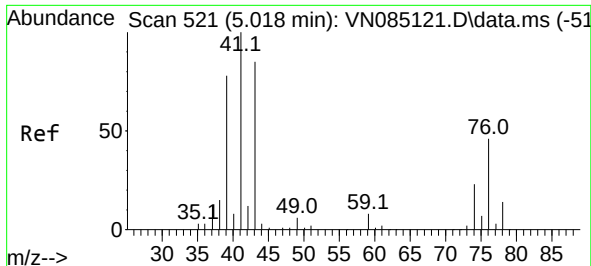
Tgt Ion: 76 Resp: 106931

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7





#17

Allyl chloride

Concen: 19.871 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

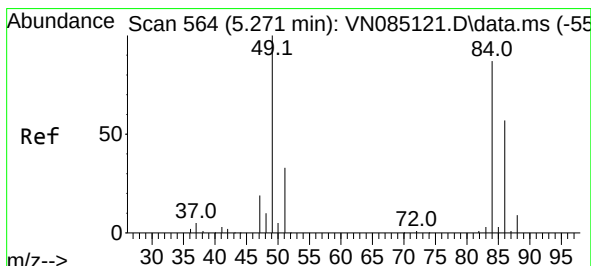
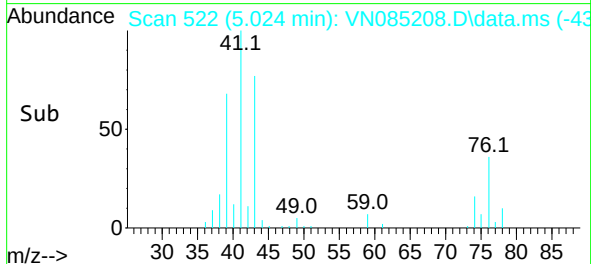
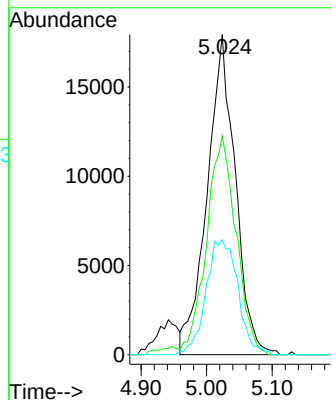
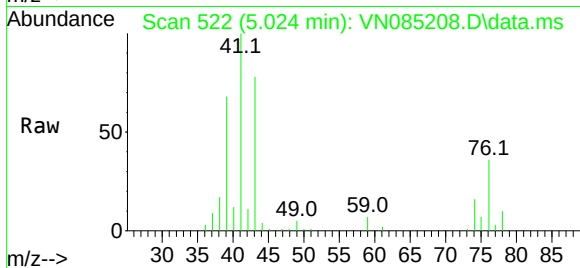
Tgt Ion: 41 Resp: 53377

Ion Ratio Lower Upper

41 100

39 68.4 32.0 96.2

76 35.9 20.2 60.5



#18

Methylene Chloride

Concen: 18.537 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Tgt Ion: 84 Resp: 39484

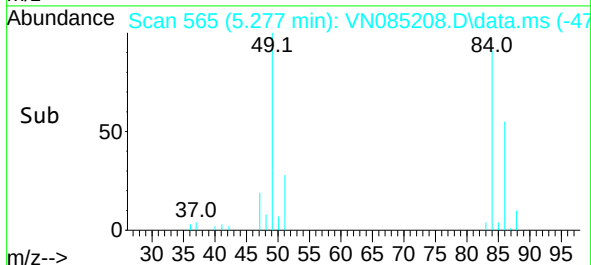
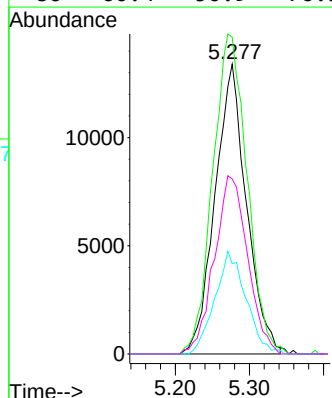
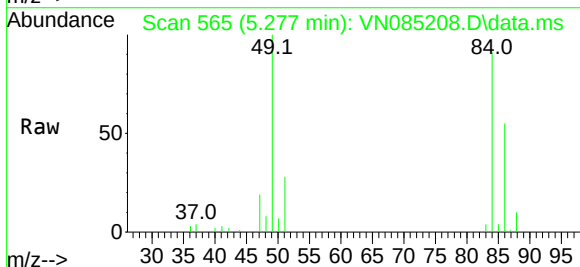
Ion Ratio Lower Upper

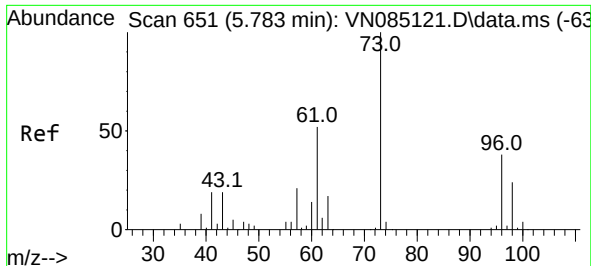
84 100

49 109.3 95.1 142.7

51 31.1 27.4 41.0

86 60.4 50.9 76.3





#19

trans-1,2-Dichloroethene

Concen: 19.519 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

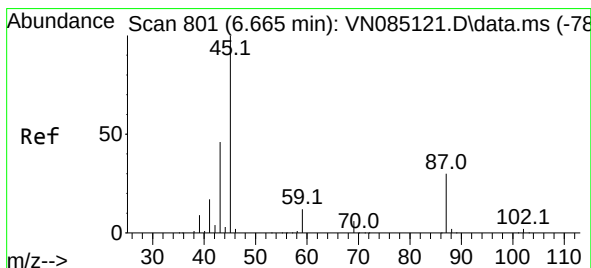
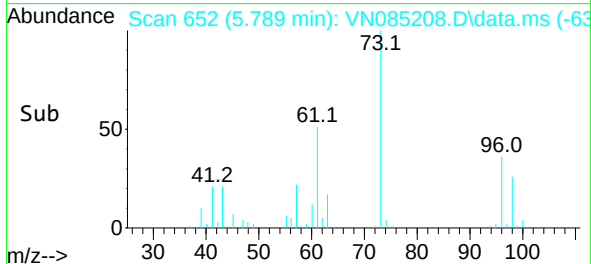
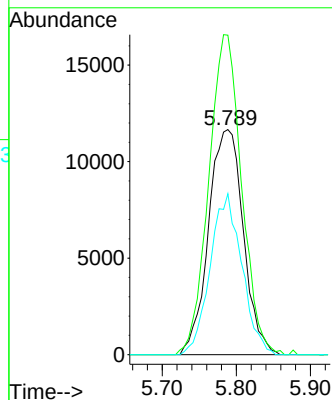
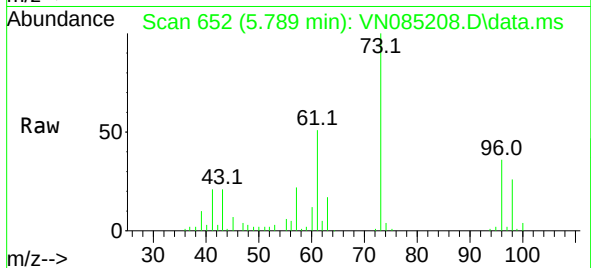
Tgt Ion: 96 Resp: 38087

Ion Ratio Lower Upper

96 100

61 140.1 100.4 150.6

98 71.5 52.6 79.0



#20

Diisopropyl ether

Concen: 19.573 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Tgt Ion: 45 Resp: 115380

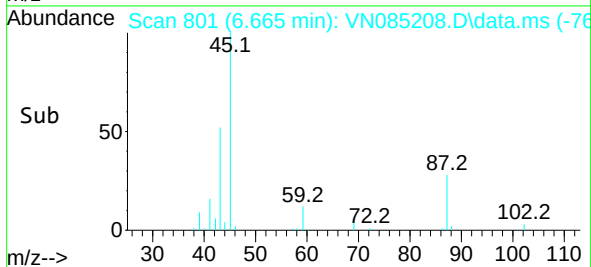
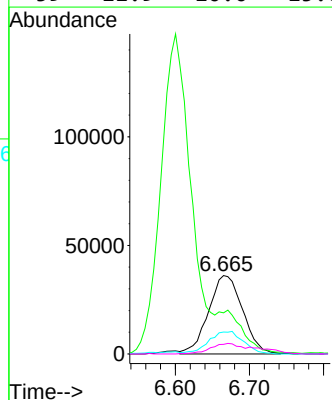
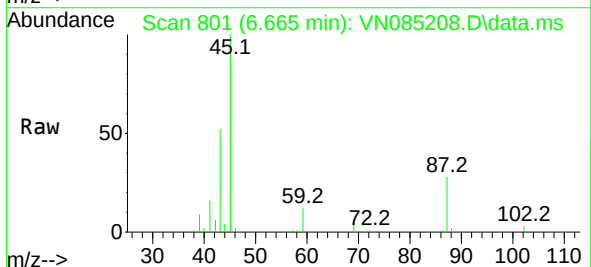
Ion Ratio Lower Upper

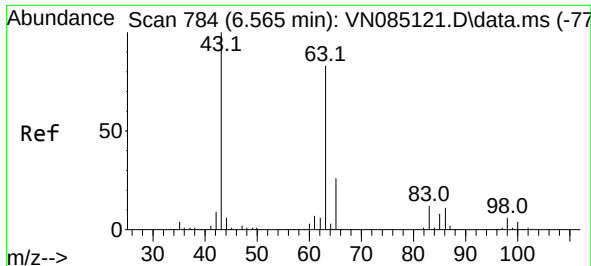
45 100

43 50.4 41.9 62.9

87 28.0 24.1 36.1

59 11.9 10.0 15.0





#21

1,1-Dichloroethane

Concen: 19.601 ug/l

RT: 6.559 min Scan# 71

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

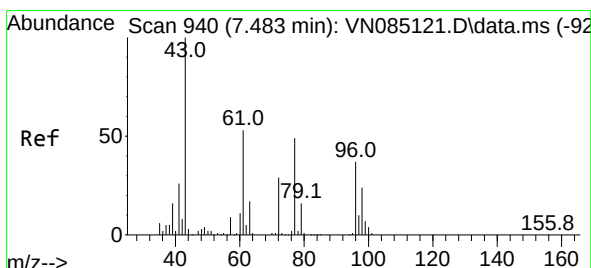
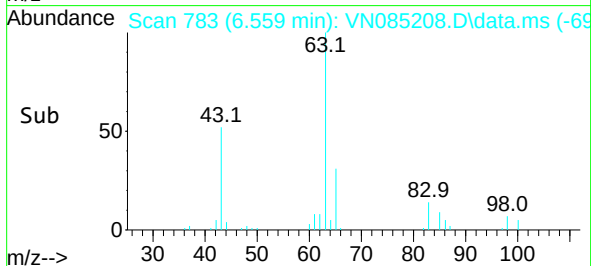
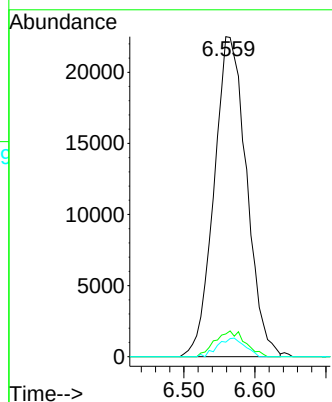
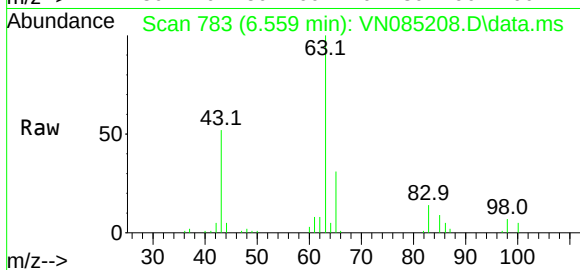
Tgt Ion: 63 Resp: 71315

Ion Ratio Lower Upper

63 100

98 7.1 3.5 10.4

100 4.6 1.6 4.8



#22

cis-1,2-Dichloroethene

Concen: 19.576 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

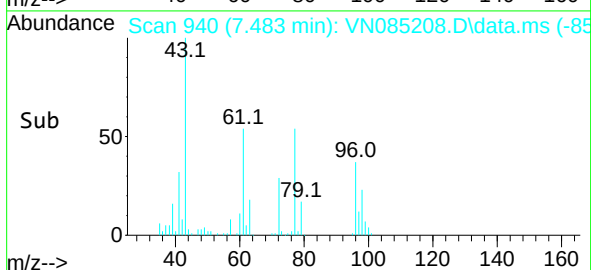
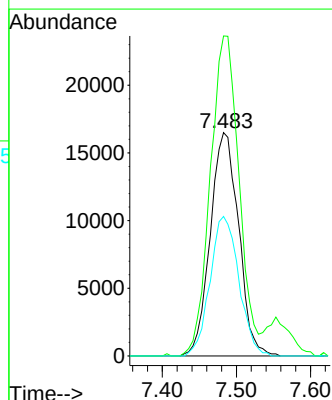
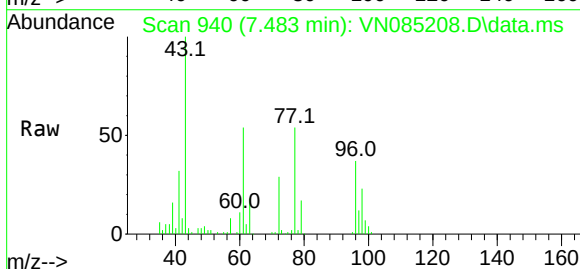
Tgt Ion: 96 Resp: 43904

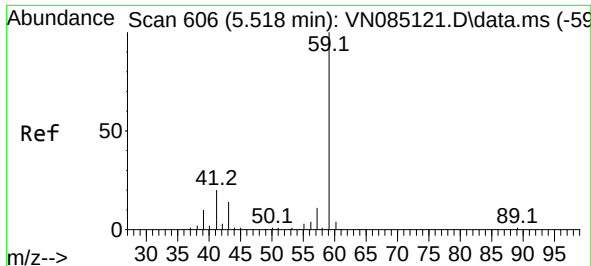
Ion Ratio Lower Upper

96 100

61 144.6 115.9 173.9

98 63.6 51.8 77.8

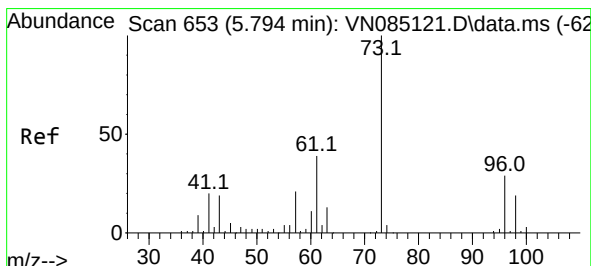
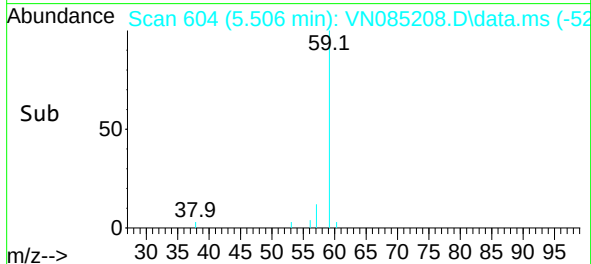
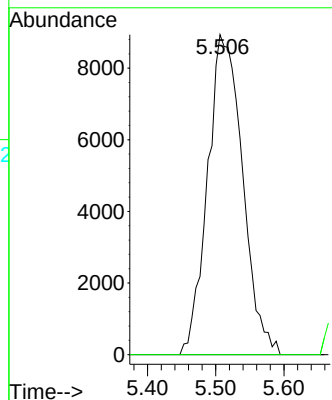
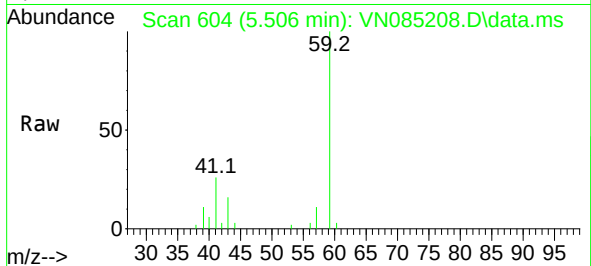




#23
tert-Butyl Alcohol
Concen: 96.694 ug/l
RT: 5.506 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

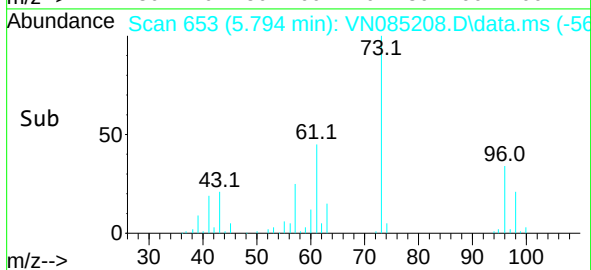
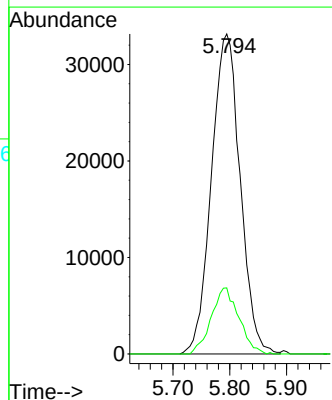
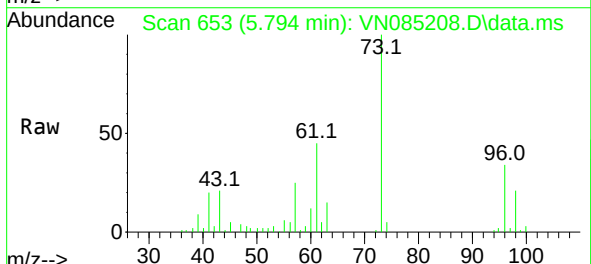
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

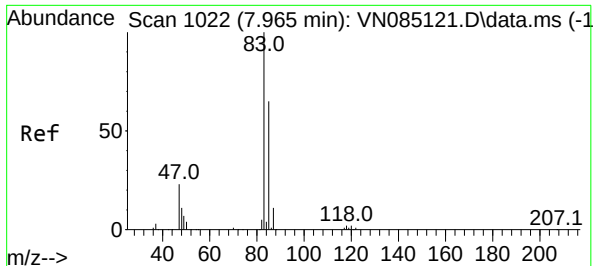
Tgt Ion: 59 Resp: 31898
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 19.863 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 73 Resp: 116497
Ion Ratio Lower Upper
73 100
43 19.8 8.7 13.1#

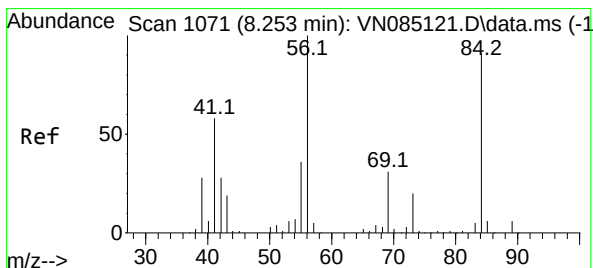
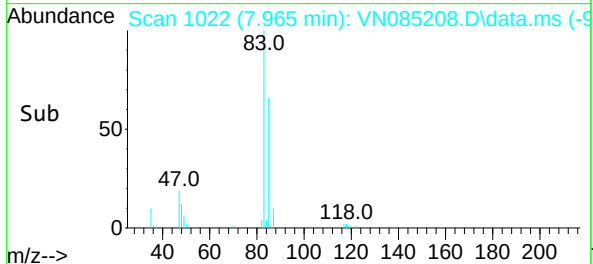
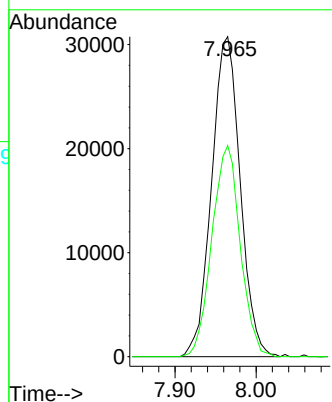
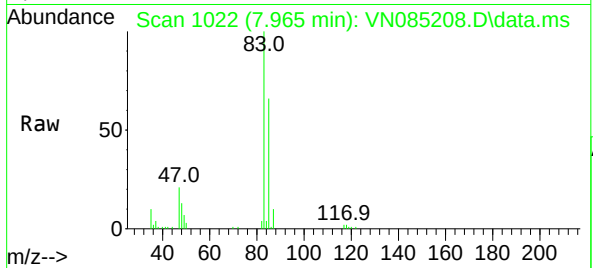




#25
Chloroform
Concen: 19.757 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

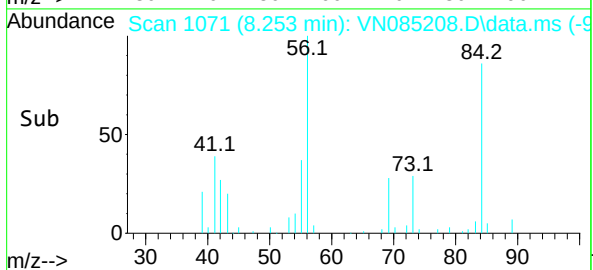
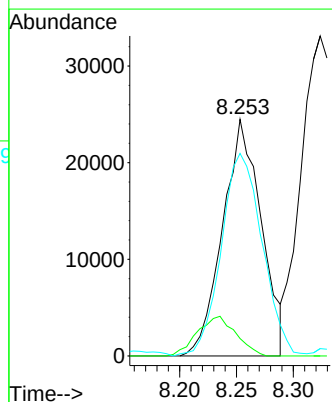
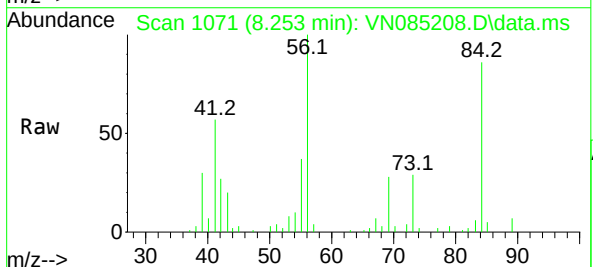
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

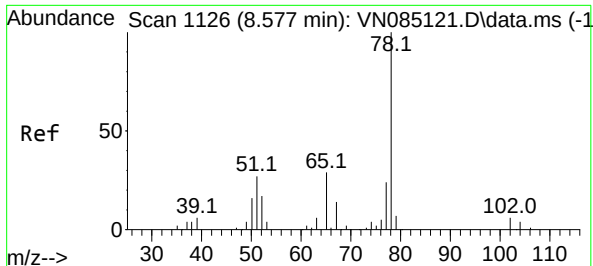
Tgt Ion: 83 Resp: 75307
Ion Ratio Lower Upper
83 100
85 66.0 49.4 74.0



#26
Cyclohexane
Concen: 19.340 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 56 Resp: 57940
Ion Ratio Lower Upper
56 100
89 16.8 19.5 29.3#
84 90.7 70.6 105.8

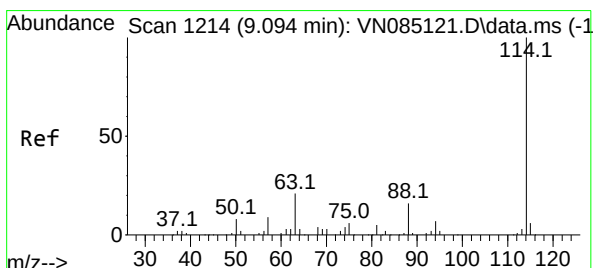
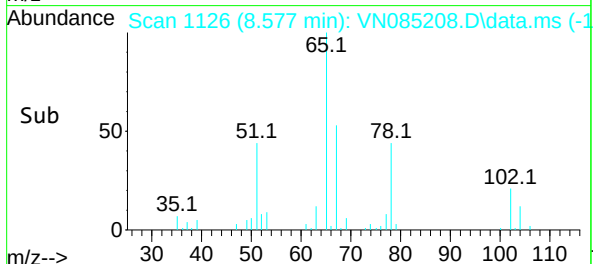
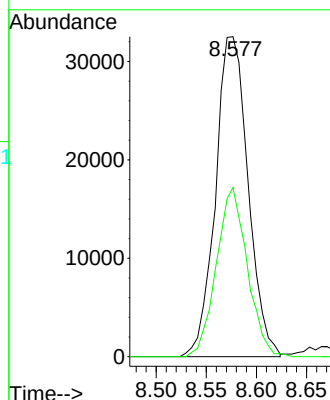
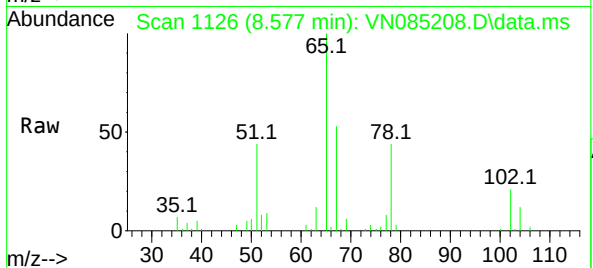




#27
 1,2-Dichloroethane-d4
 Concen: 30.028 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

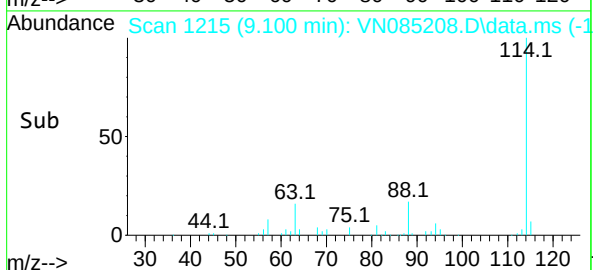
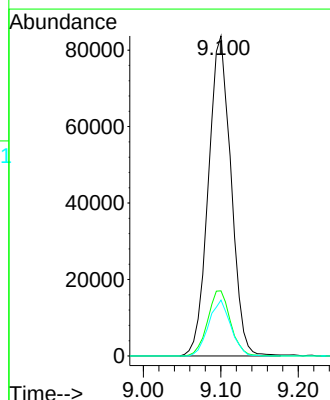
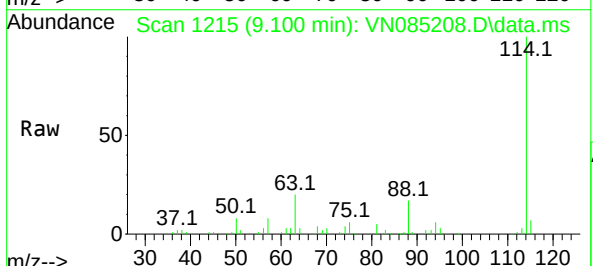
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

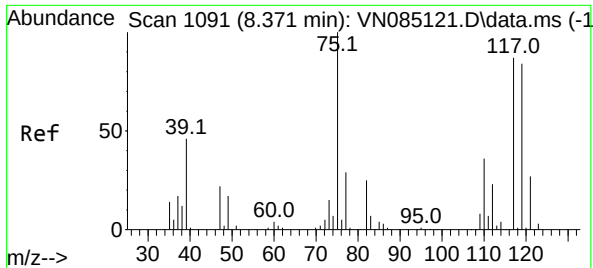
Tgt Ion: 65 Resp: 73444
 Ion Ratio Lower Upper
 65 100
 67 49.8 39.9 59.9



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Tgt Ion: 114 Resp: 169823
 Ion Ratio Lower Upper
 114 100
 63 20.5 16.2 24.2
 88 17.0 12.5 18.7

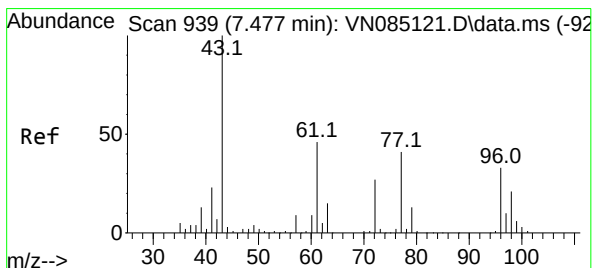
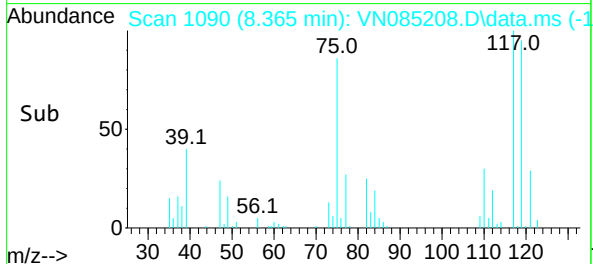
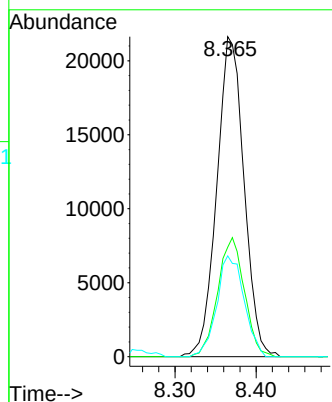
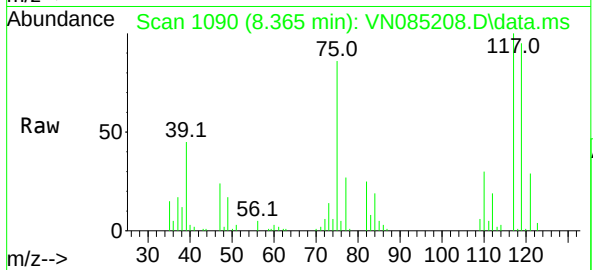




#29
1,1-Dichloropropene
Concen: 18.361 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

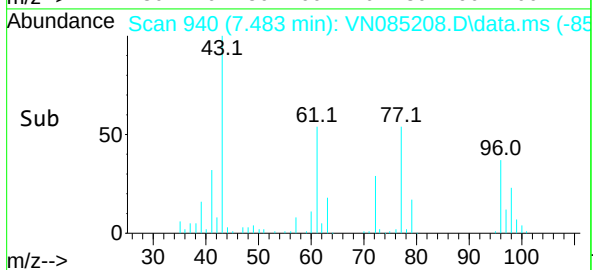
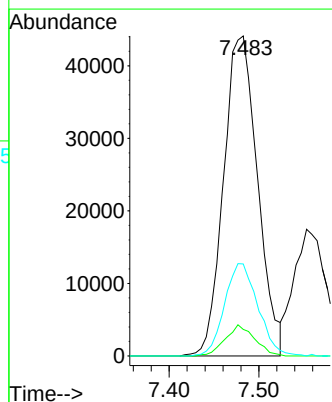
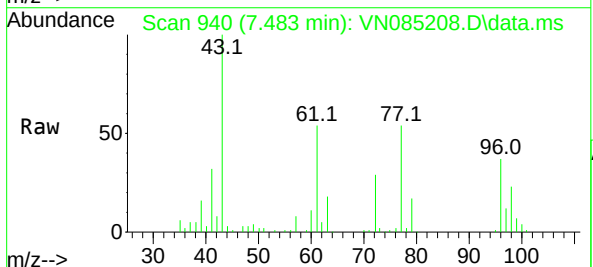
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

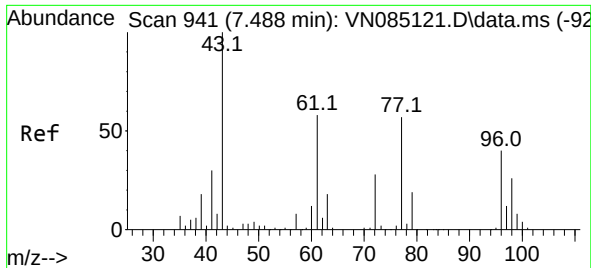
Tgt Ion: 75 Resp: 50315
Ion Ratio Lower Upper
75 100
110 36.4 0.0 71.6
77 31.7 0.0 62.2



#30
2-Butanone
Concen: 92.579 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 43 Resp: 116422
Ion Ratio Lower Upper
43 100
57 8.4 6.9 10.3
72 28.2 21.8 32.8

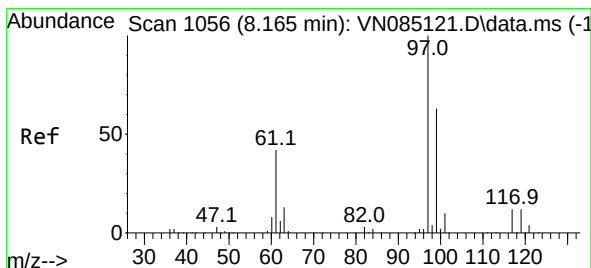
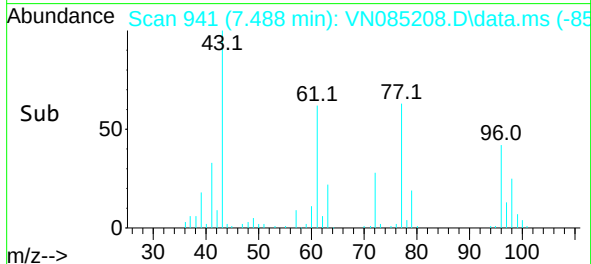
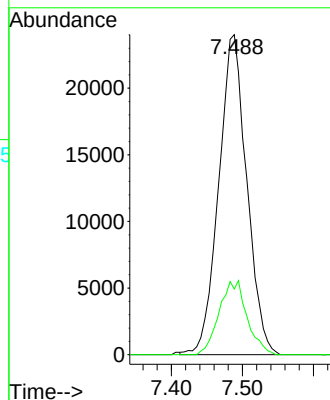
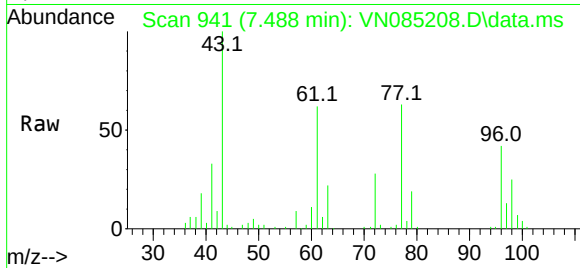




#31
2,2-Dichloropropane
Concen: 18.711 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

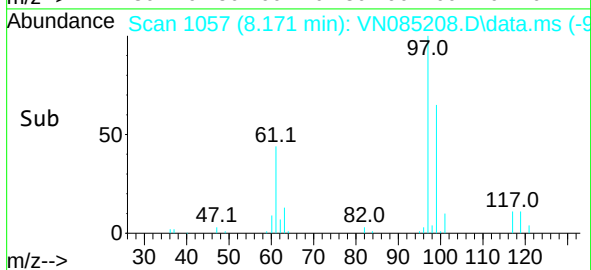
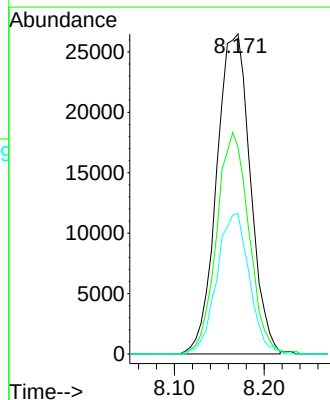
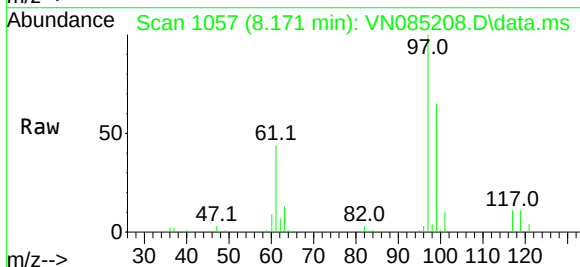
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

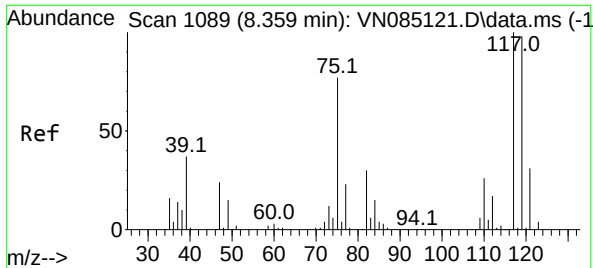
Tgt Ion: 77 Resp: 65751
Ion Ratio Lower Upper
77 100
97 23.1 0.0 0.0#



#32
1,1,1-Trichloroethane
Concen: 18.605 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 97 Resp: 69008
Ion Ratio Lower Upper
97 100
99 66.2 50.8 76.2
61 42.3 32.7 49.1

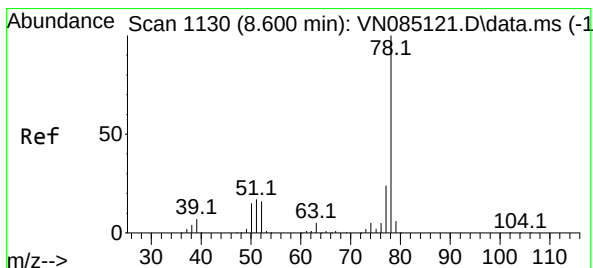
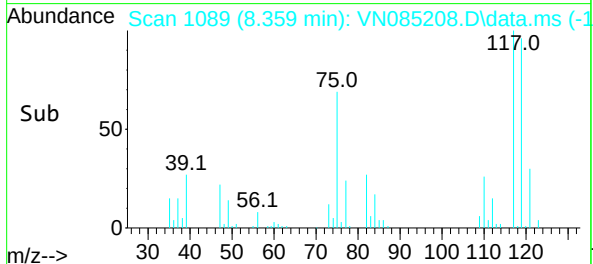
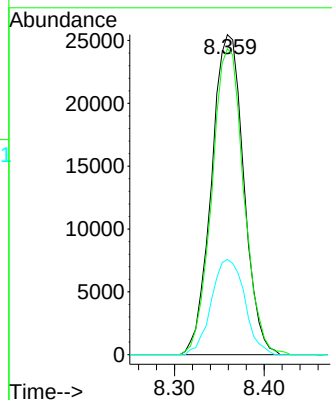
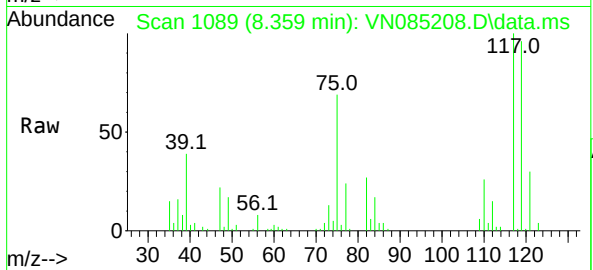




#33
Carbon Tetrachloride
Concen: 18.985 ug/l
RT: 8.359 min Scan# 1108
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

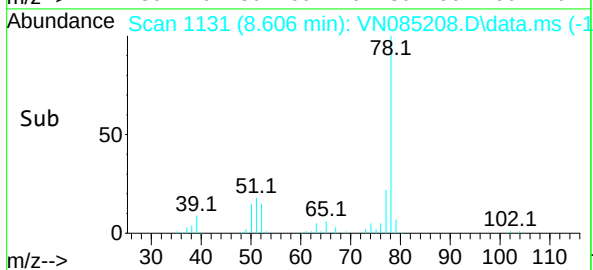
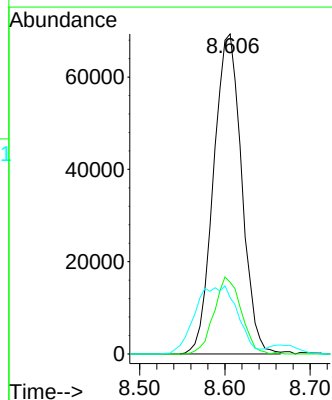
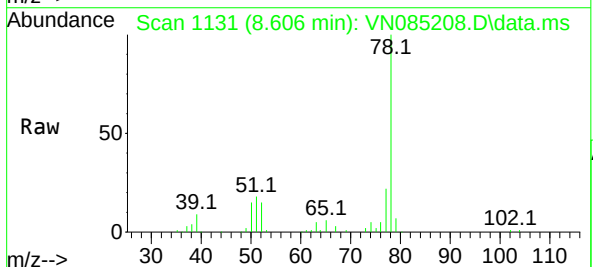
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

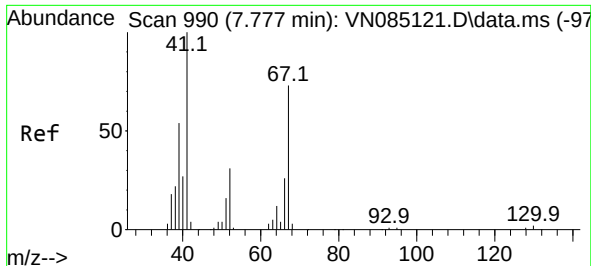
Tgt Ion:117 Resp: 63544
Ion Ratio Lower Upper
117 100
119 95.6 81.6 122.4
121 29.7 26.5 39.7



#34
Benzene
Concen: 18.431 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 78 Resp: 158668
Ion Ratio Lower Upper
78 100
77 22.4 18.0 27.0
51 15.0 12.4 18.6

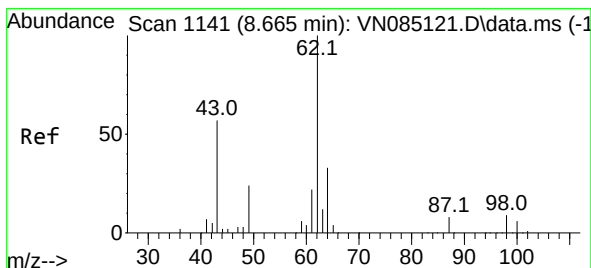
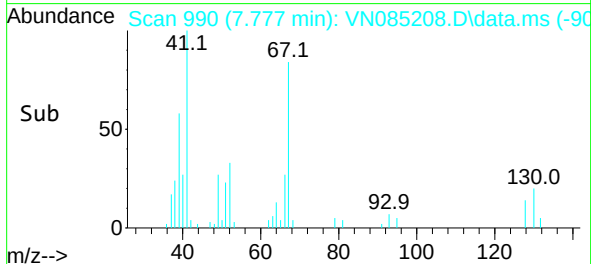
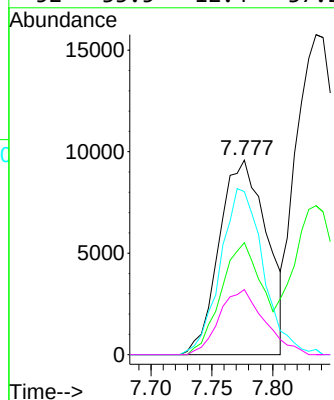
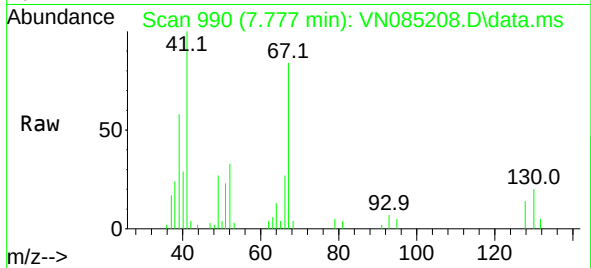




#35
Methacrylonitrile
Concen: 18.445 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

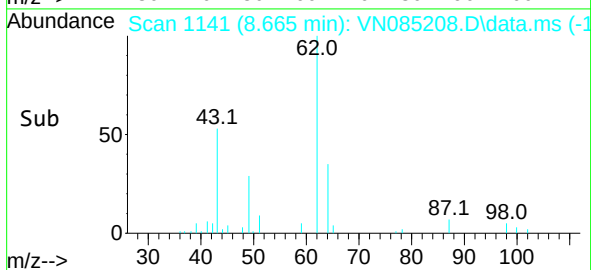
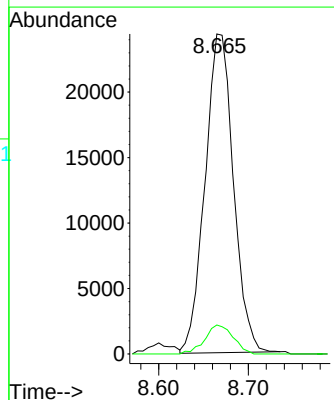
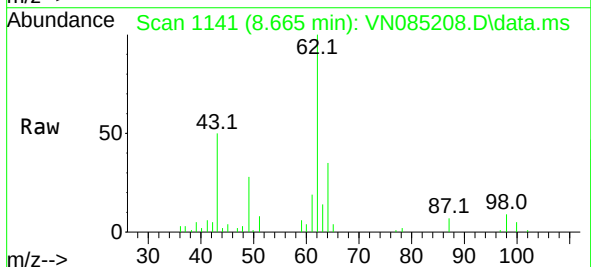
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

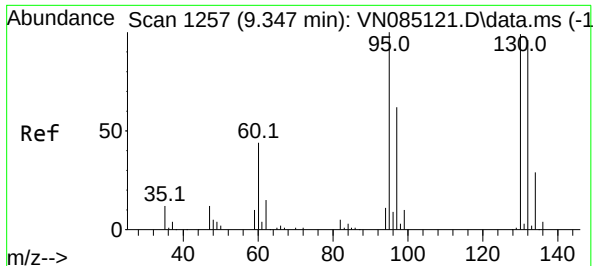
Tgt Ion:	41	Resp:	26103
Ion	Ratio	Lower	Upper
41	100		
39	57.6	24.4	73.2
67	83.8	37.0	110.9
52	33.5	12.4	37.2



#36
1,2-Dichloroethane
Concen: 18.273 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:	62	Resp:	53550
Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.3	10.9

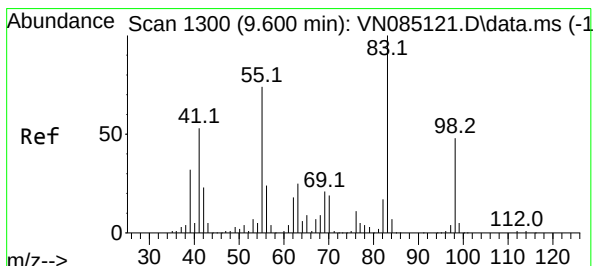
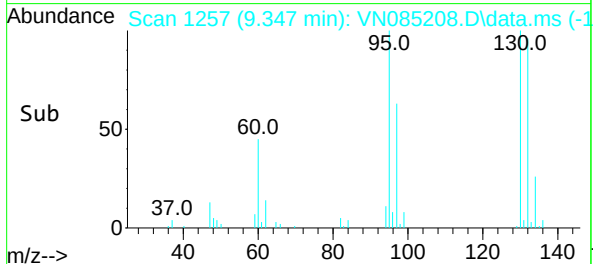
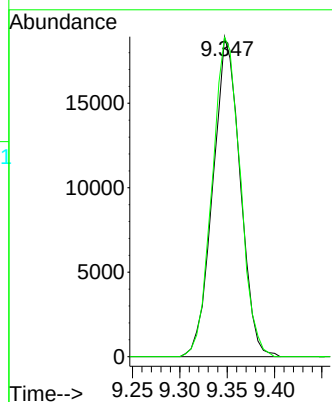
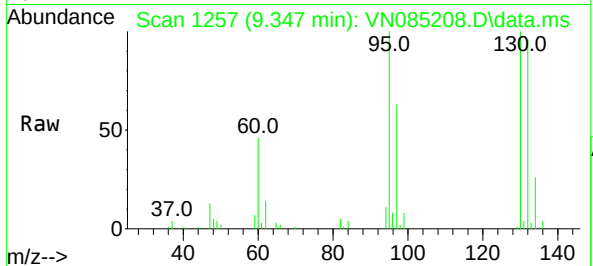




#37
Trichloroethene
Concen: 18.494 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

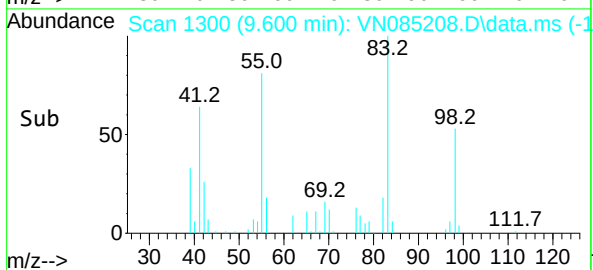
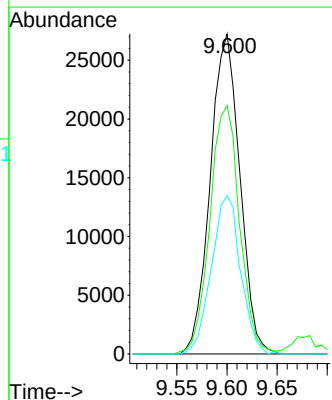
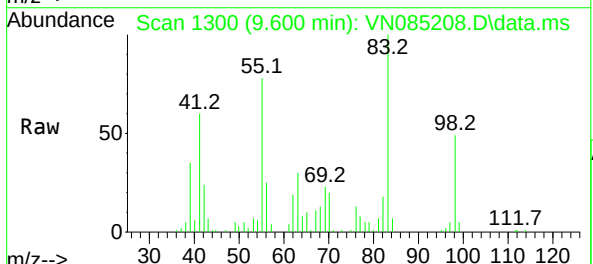
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

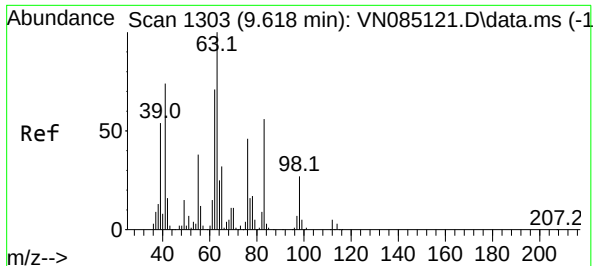
Tgt Ion:130 Resp: 37914
Ion Ratio Lower Upper
130 100
95 99.8 76.2 114.4



#38
Methylcyclohexane
Concen: 18.747 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 83 Resp: 55860
Ion Ratio Lower Upper
83 100
55 77.8 41.4 124.4
98 48.7 25.7 77.1





#39

1,2-Dichloropropane

Concen: 18.527 ug/l

RT: 9.618 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

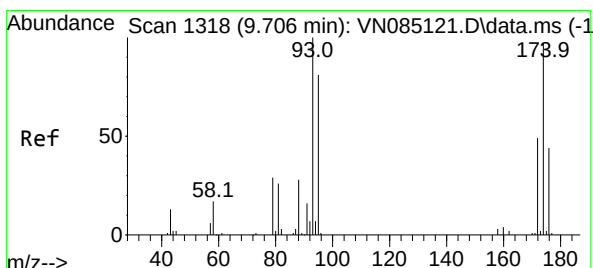
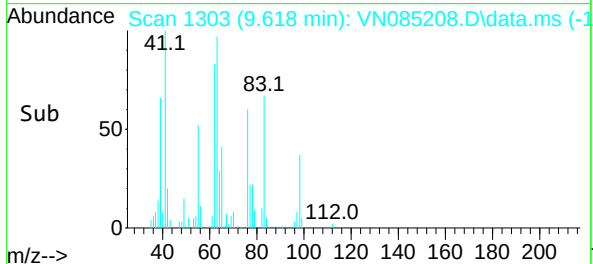
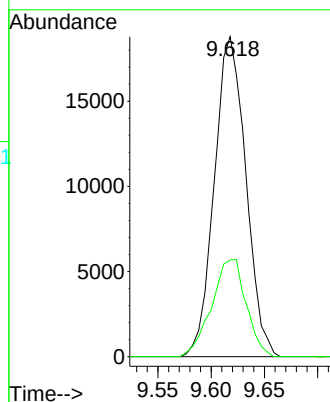
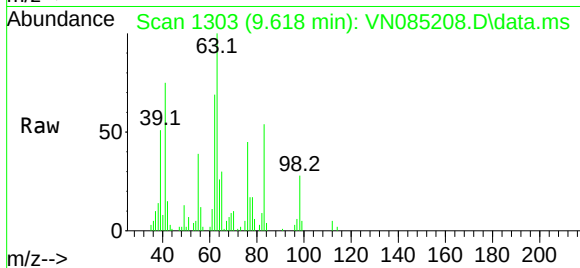
VN1216WBS01

Tgt Ion: 63 Resp: 38631

Ion Ratio Lower Upper

63 100

65 30.2 23.4 35.0



#40

Dibromomethane

Concen: 18.712 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

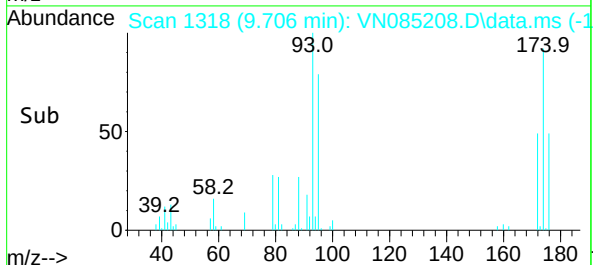
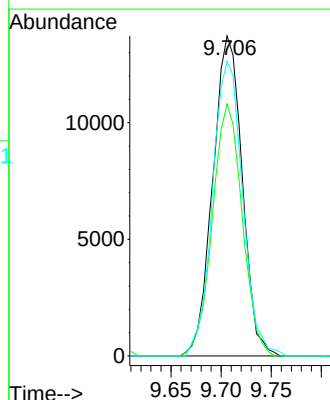
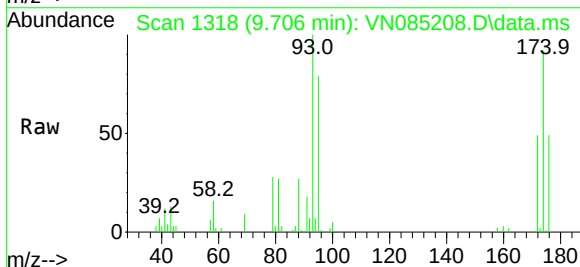
Tgt Ion: 93 Resp: 27987

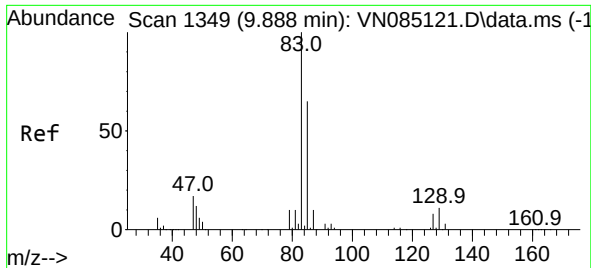
Ion Ratio Lower Upper

93 100

95 79.8 0.0 169.4

174 94.2 0.0 189.8

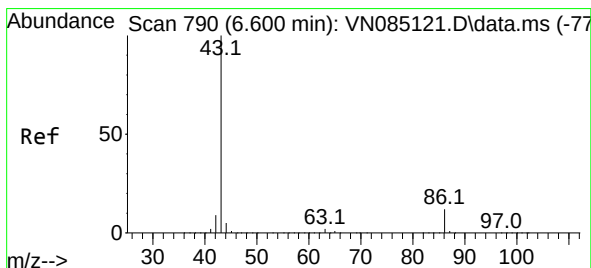
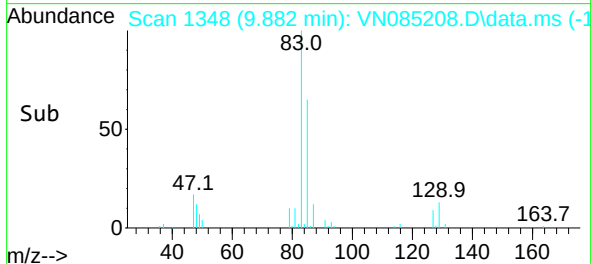
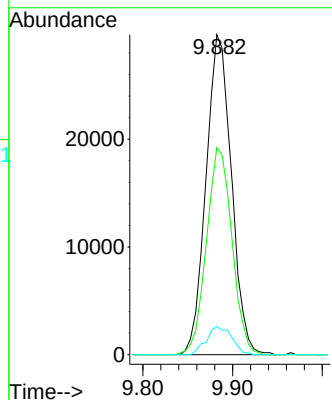
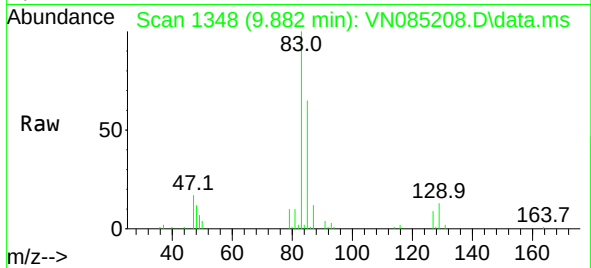




#41
Bromodichloromethane
Concen: 18.262 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

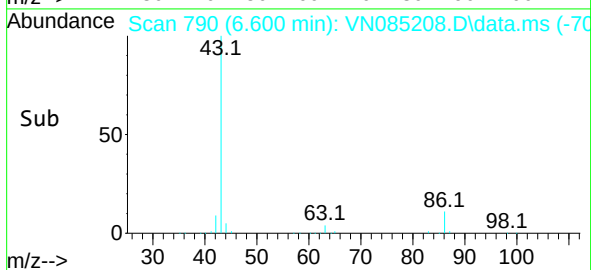
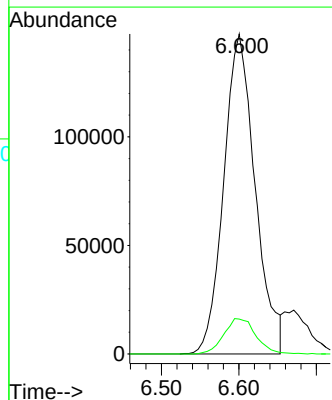
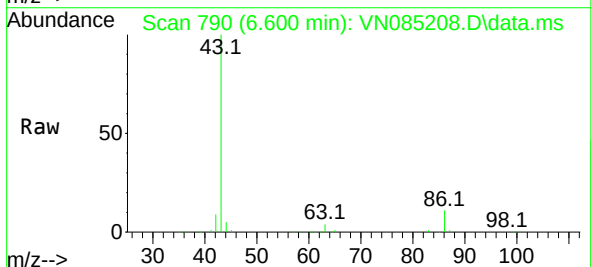
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

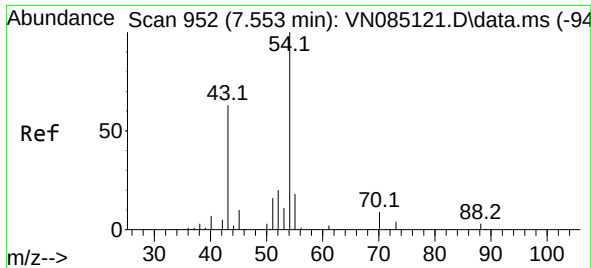
Tgt Ion: 83 Resp: 58391
Ion Ratio Lower Upper
83 100
85 64.7 54.6 81.8
127 8.8 7.0 10.6



#42
Vinyl Acetate
Concen: 94.564 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 43 Resp: 416125
Ion Ratio Lower Upper
43 100
86 11.3 9.2 13.8

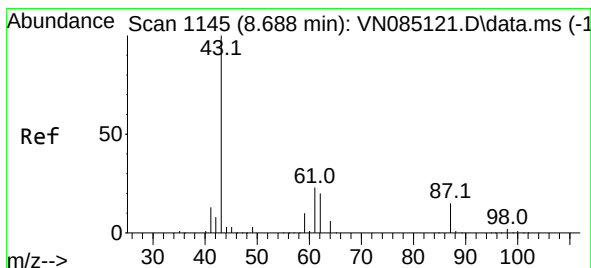
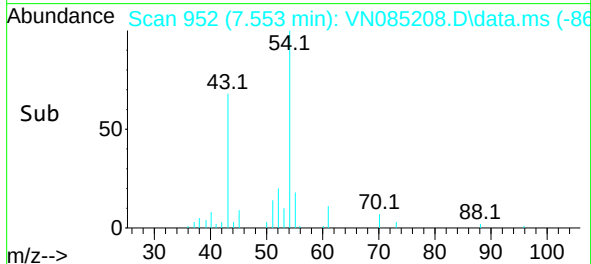
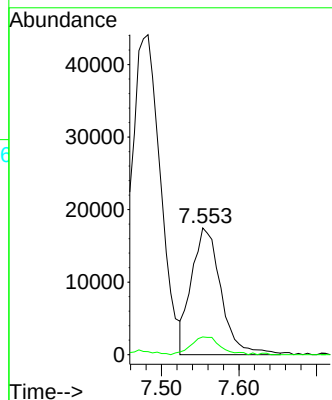
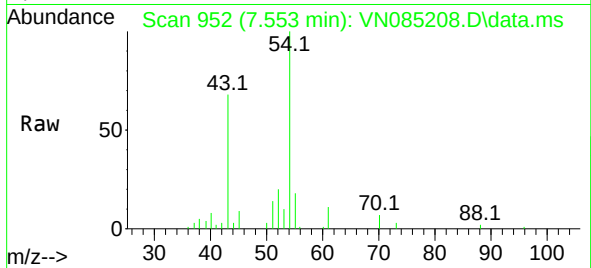




#43
Ethyl Acetate
Concen: 18.415 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

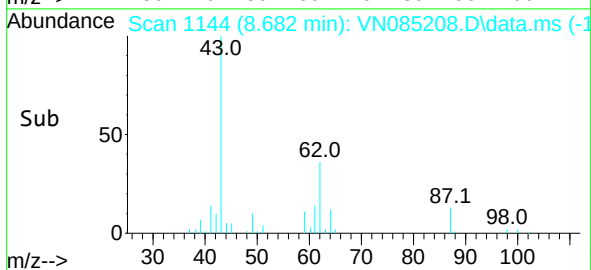
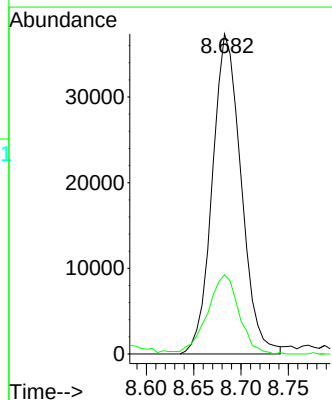
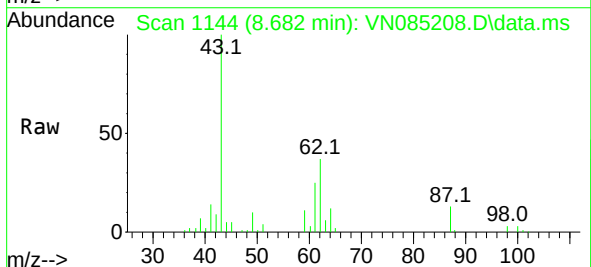
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

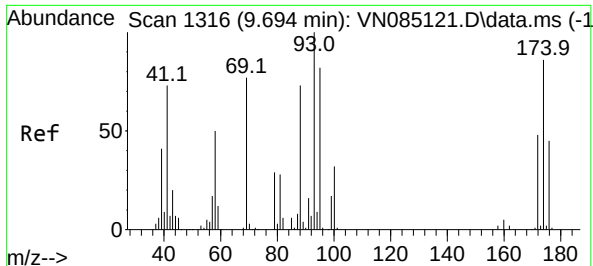
Tgt Ion: 43 Resp: 46077
Ion Ratio Lower Upper
43 100
45 13.3 13.3 19.9



#44
Isopropyl Acetate
Concen: 18.196 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

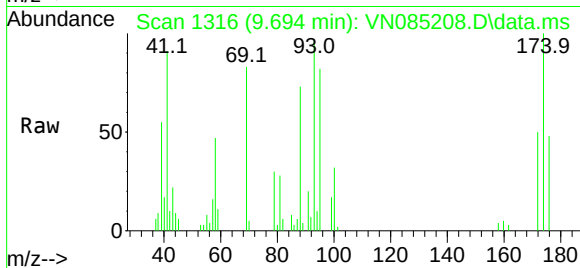
Tgt Ion: 43 Resp: 79121
Ion Ratio Lower Upper
43 100
61 27.0 21.5 32.3



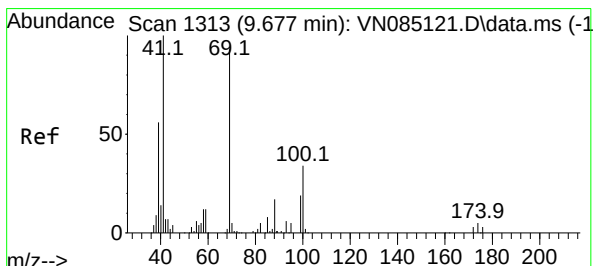
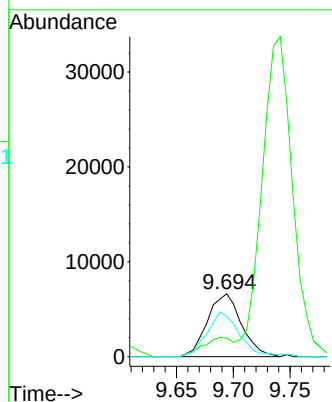
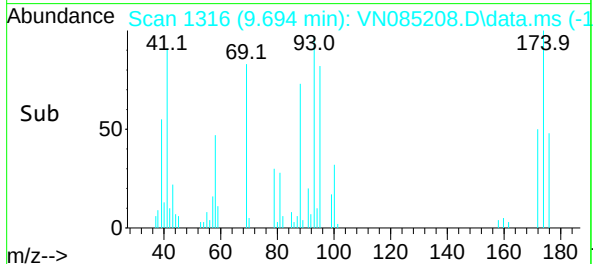


#45
1,4-Dioxane
Concen: 379.179 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

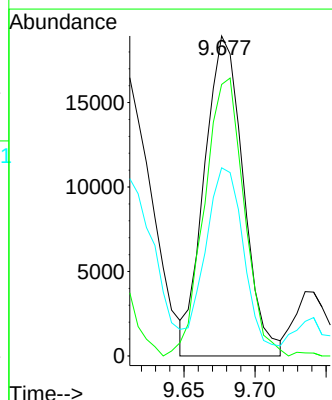
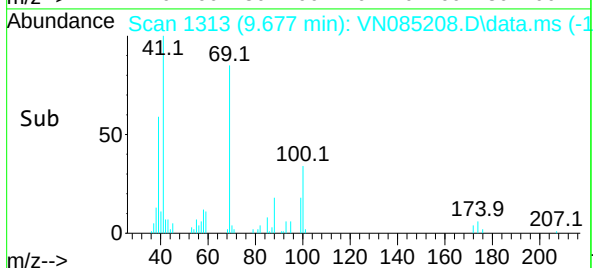
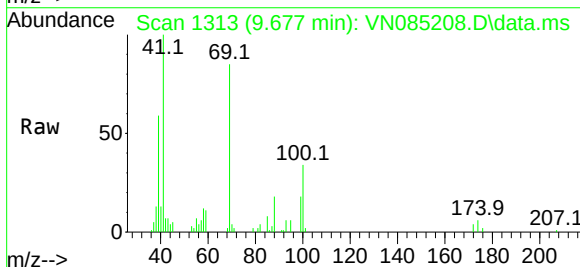


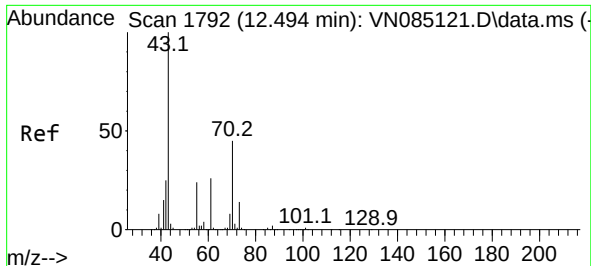
Tgt Ion: 88 Resp: 13749
Ion Ratio Lower Upper
88 100
43 27.0 21.7 32.5
58 67.7 52.6 79.0



#46
Methyl methacrylate
Concen: 18.146 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 41 Resp: 36110
Ion Ratio Lower Upper
41 100
69 87.0 46.7 140.0
39 58.4 28.5 85.5

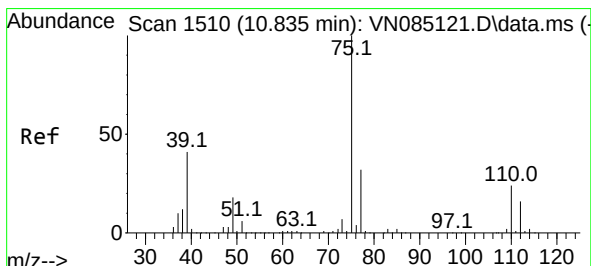
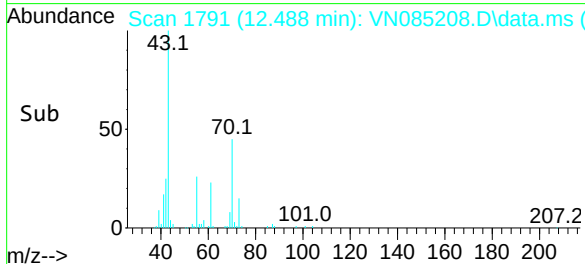
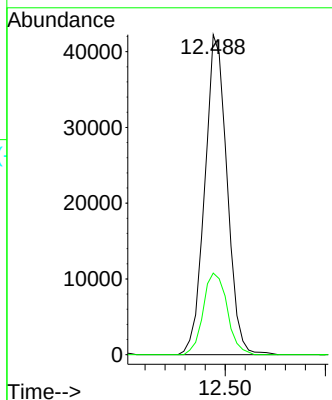
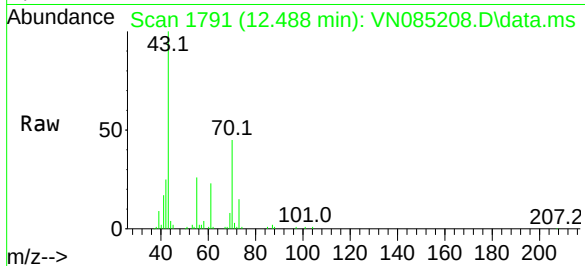




#47
n-amy1 Acetate
Concen: 17.803 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

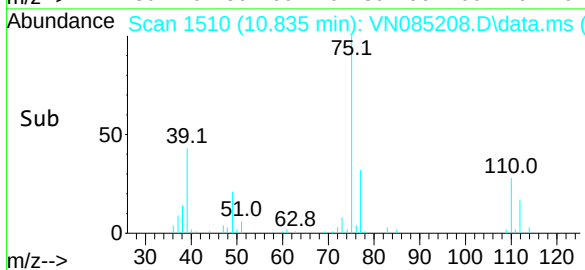
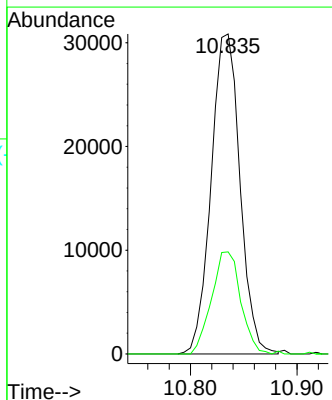
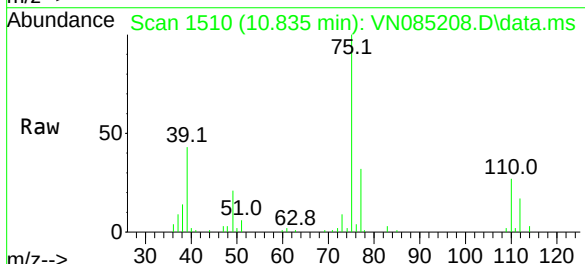
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

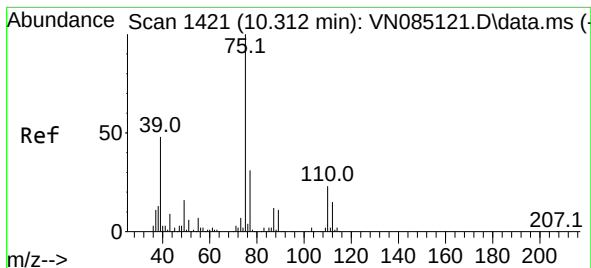
Tgt Ion: 43 Resp: 65132
Ion Ratio Lower Upper
43 100
55 27.5 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 18.453 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 75 Resp: 57919
Ion Ratio Lower Upper
75 100
77 31.9 25.5 38.3

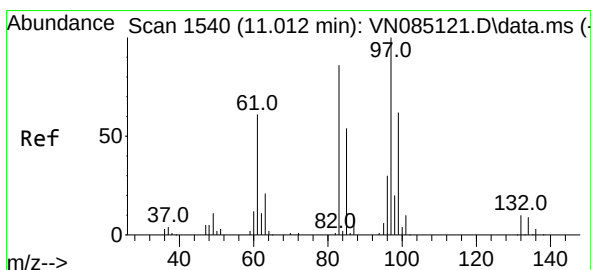
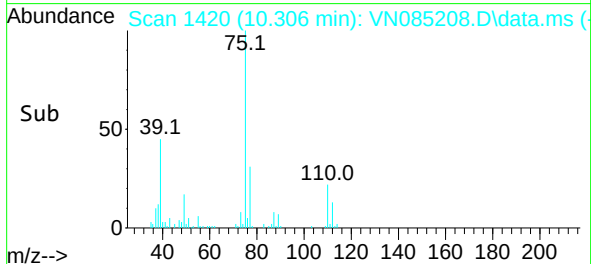
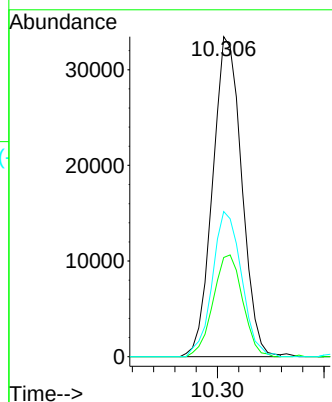
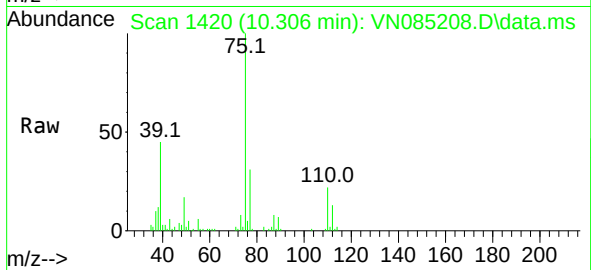




#49
 cis-1,3-Dichloropropene
 Concen: 18.535 ug/l
 RT: 10.306 min Scan# 1421
 Delta R.T. -0.006 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

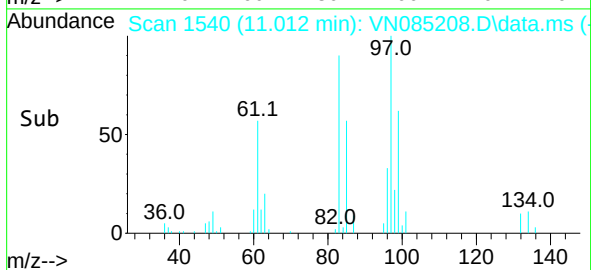
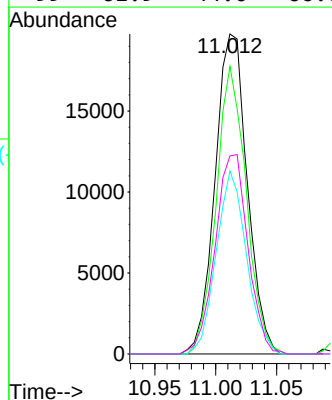
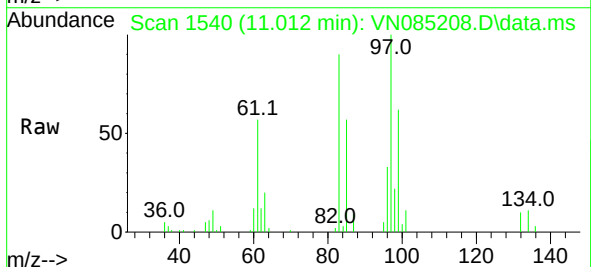
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

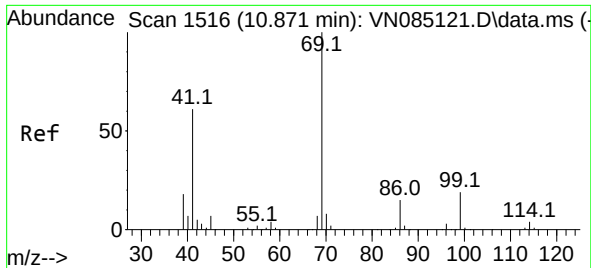
Tgt Ion:	75	Resp:	63332
Ion	Ratio	Lower	Upper
75	100		
77	31.0	23.8	35.6
39	45.4	37.3	55.9



#50
 1,1,2-Trichloroethane
 Concen: 18.046 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Tgt Ion:	97	Resp:	36370
Ion	Ratio	Lower	Upper
97	100		
83	89.8	65.8	98.8
85	57.1	40.8	61.2
99	61.9	44.0	66.0

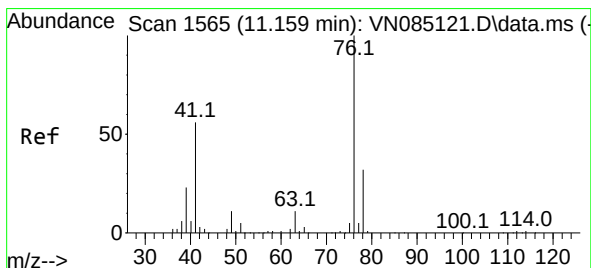
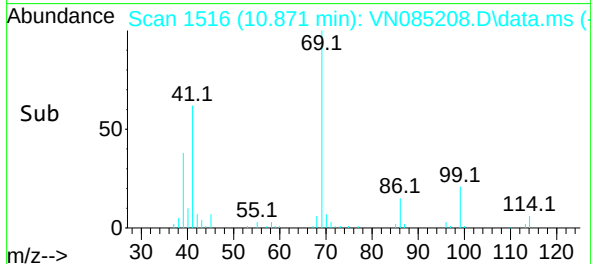
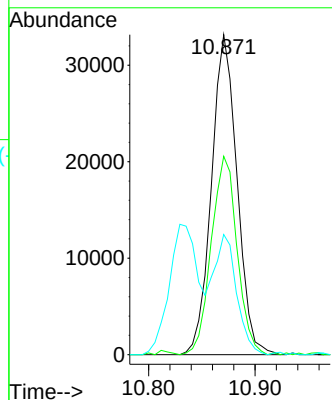
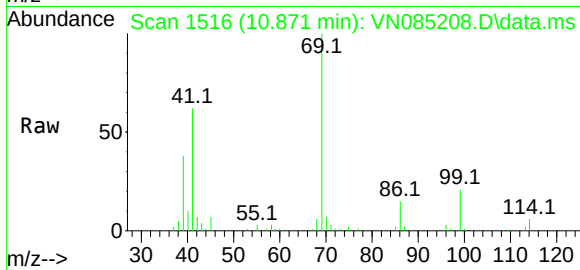




#51
Ethyl methacrylate
Concen: 18.076 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

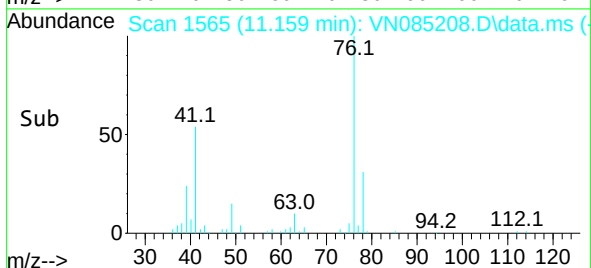
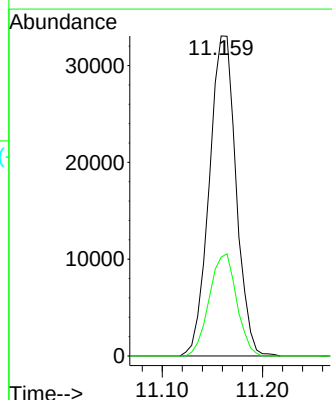
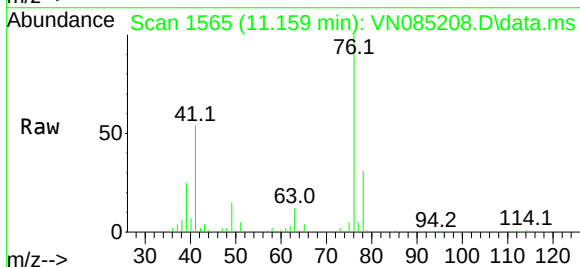
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

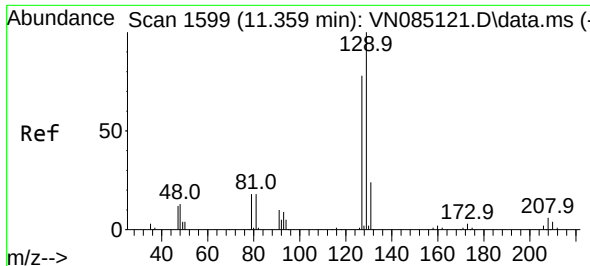
Tgt Ion: 69 Resp: 55409
Ion Ratio Lower Upper
69 100
41 62.0 32.1 96.3
39 36.8 18.8 56.4



#52
1,3-Dichloropropane
Concen: 18.210 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 76 Resp: 61421
Ion Ratio Lower Upper
76 100
78 32.5 0.0 65.6

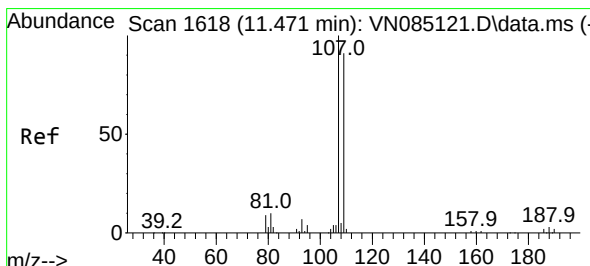
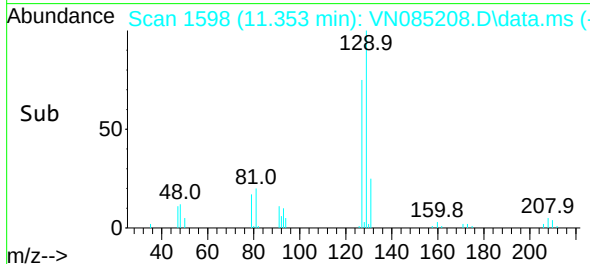
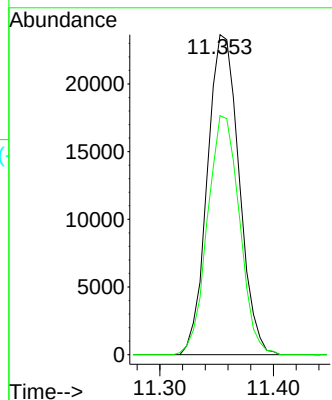
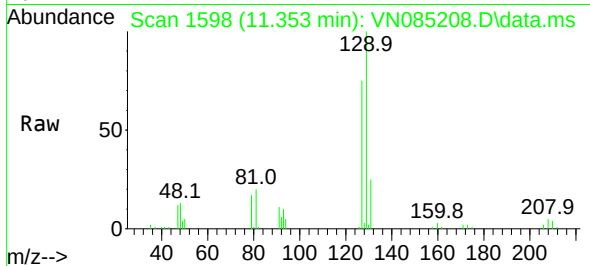




#53
Dibromochloromethane
Concen: 18.708 ug/l
RT: 11.353 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

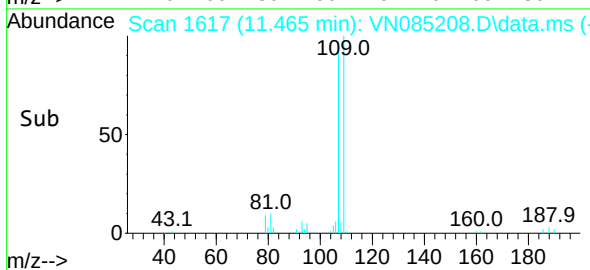
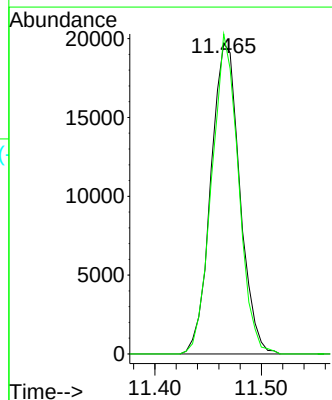
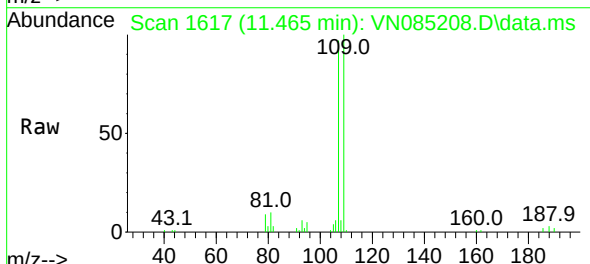
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

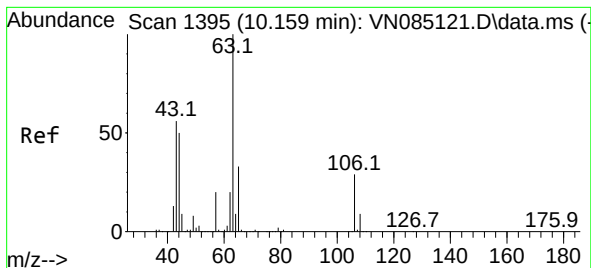
Tgt Ion:129 Resp: 45949
Ion Ratio Lower Upper
129 100
127 75.2 37.3 111.9



#54
1,2-Dibromoethane
Concen: 18.272 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:107 Resp: 37104
Ion Ratio Lower Upper
107 100
109 95.1 75.2 112.8

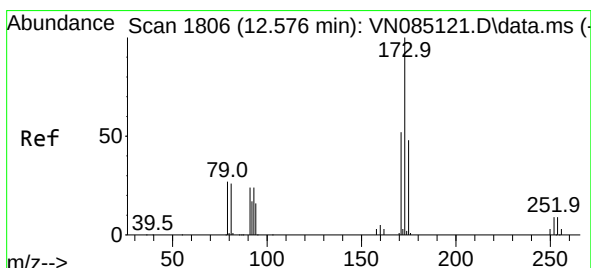
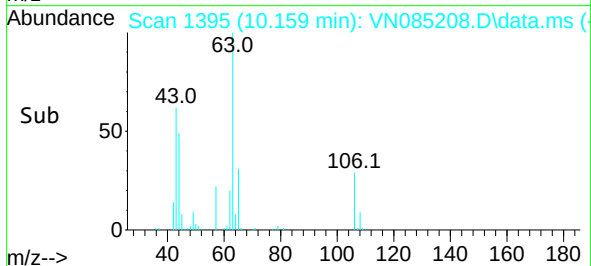
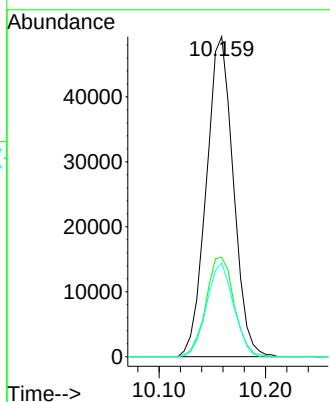
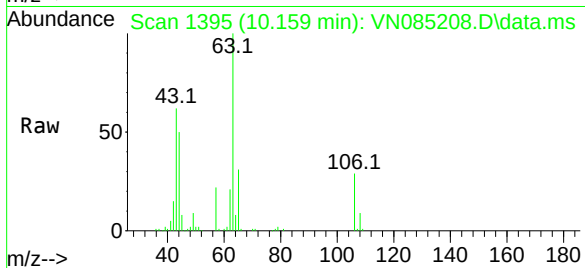




#55
2-Chloroethyl vinyl ether
Concen: 61.005 ug/l
RT: 10.159 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

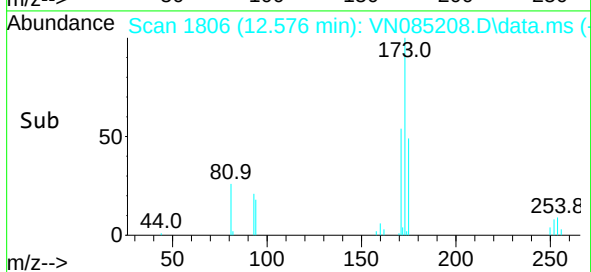
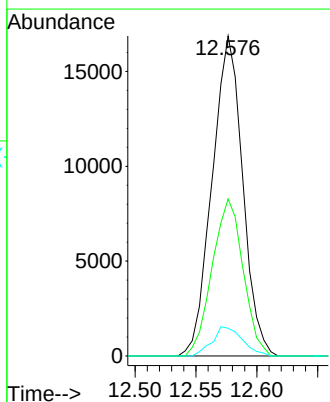
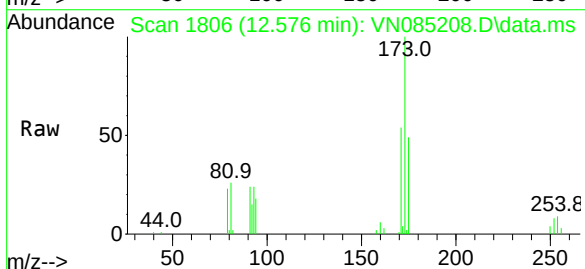
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

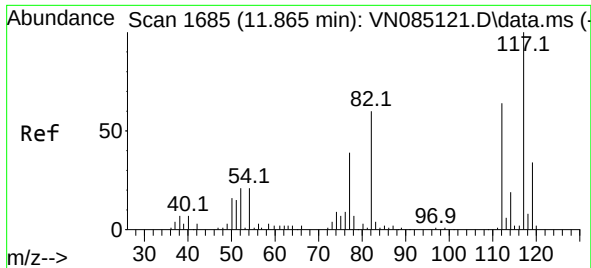
Tgt Ion: 63 Resp: 86871
Ion Ratio Lower Upper
63 100
65 32.2 25.9 38.9
106 29.3 23.5 35.3



#56
Bromoform
Concen: 17.887 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 173 Resp: 29455
Ion Ratio Lower Upper
173 100
175 49.6 40.2 60.2
254 9.0 6.2 9.4

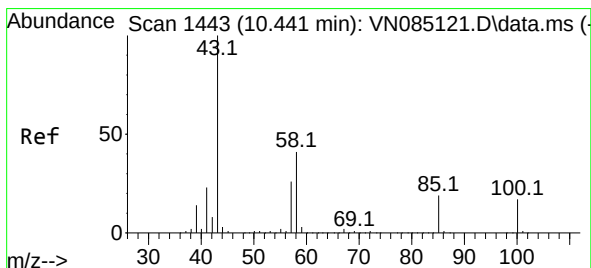
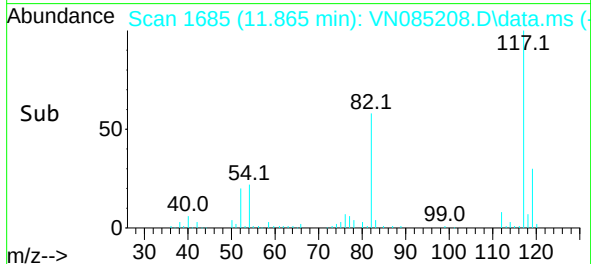
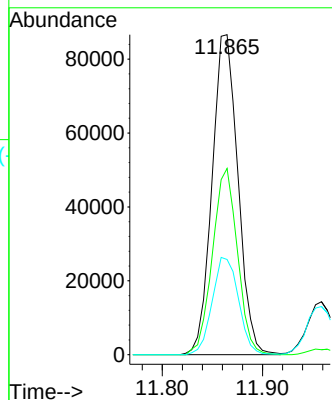
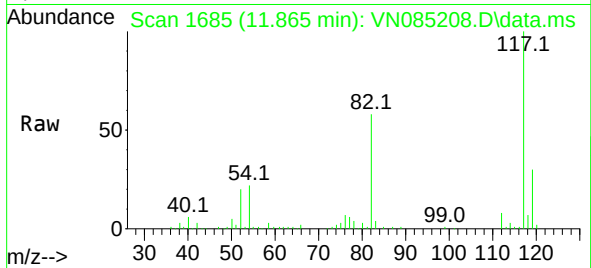




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

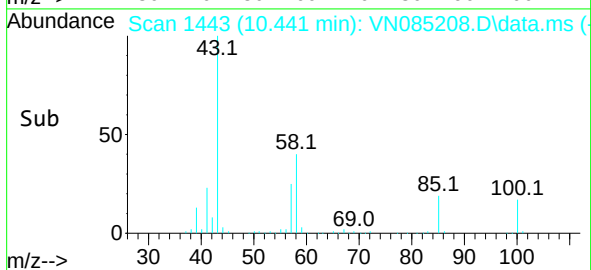
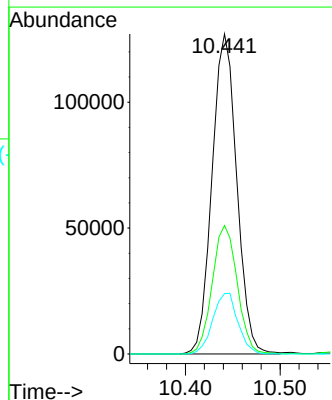
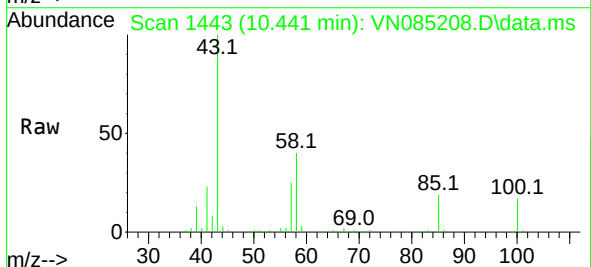
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

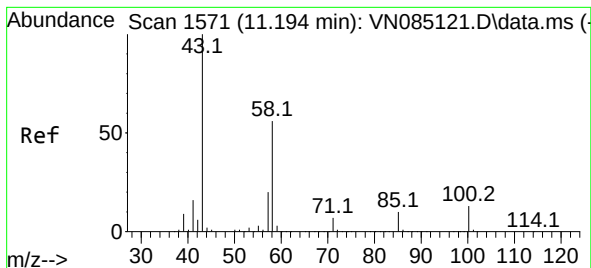
Tgt Ion:117 Resp: 155663
Ion Ratio Lower Upper
117 100
82 56.1 44.2 66.4
119 30.8 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 90.751 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 43 Resp: 230551
Ion Ratio Lower Upper
43 100
58 40.6 31.6 47.4
85 19.2 15.0 22.6

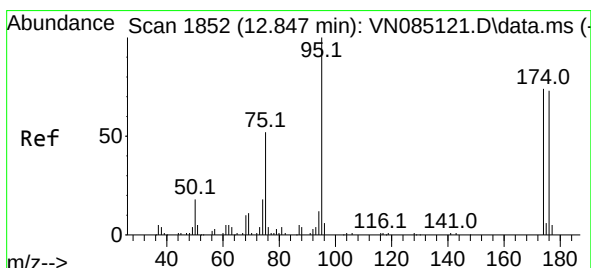
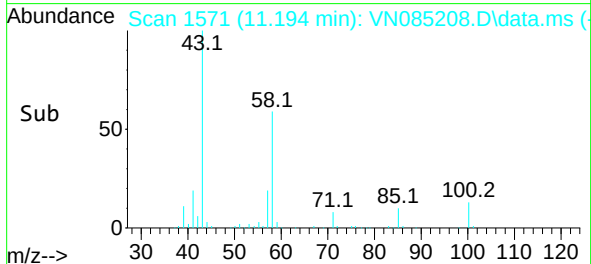
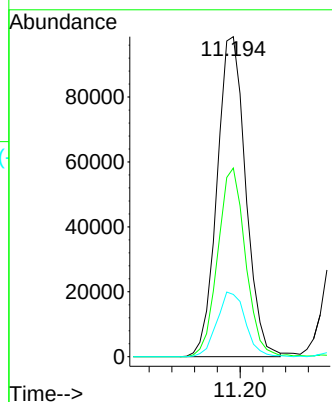
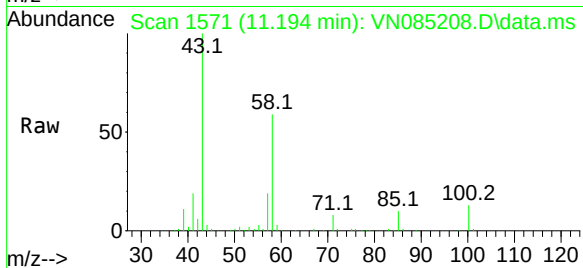




#59
2-Hexanone
Concen: 89.701 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

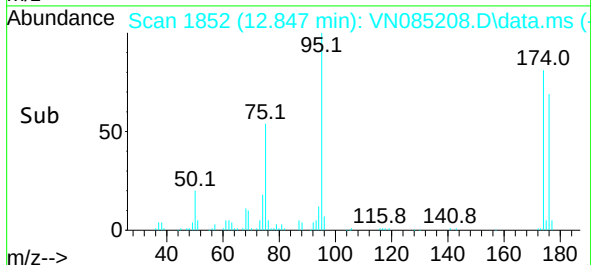
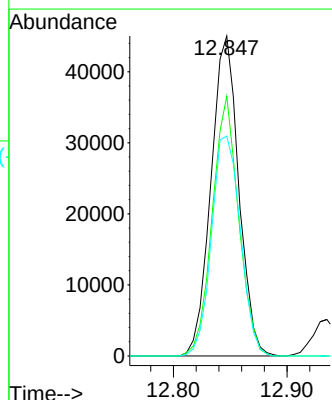
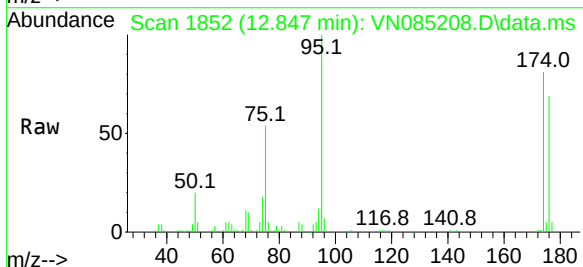
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

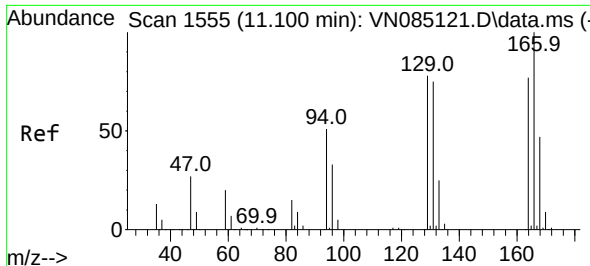
Tgt Ion: 43 Resp: 172668
Ion Ratio Lower Upper
43 100
58 56.9 43.6 65.4
57 20.0 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 29.655 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

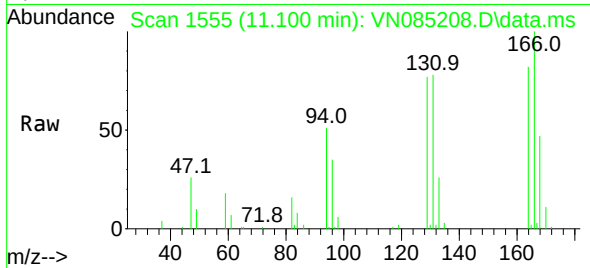
Tgt Ion: 95 Resp: 76379
Ion Ratio Lower Upper
95 100
174 77.0 60.3 90.5
176 71.5 57.4 86.0



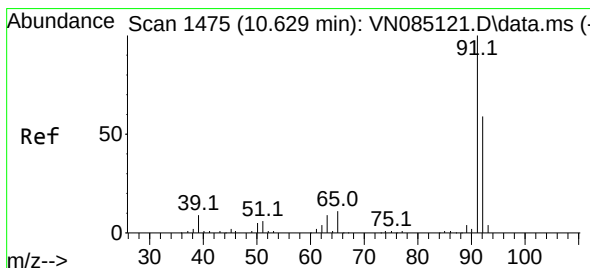
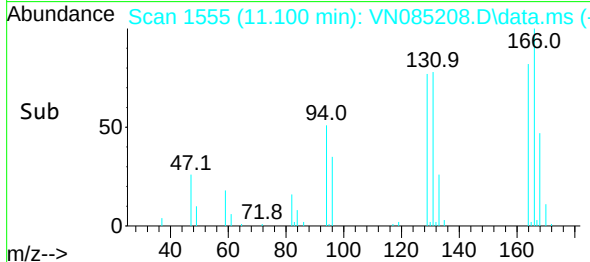
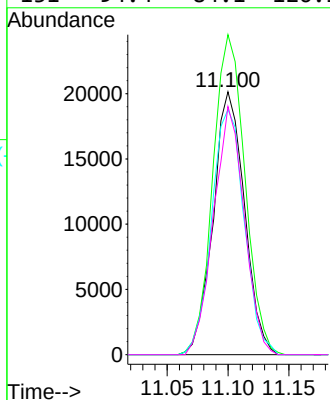


#61
Tetrachloroethene
Concen: 19.138 ug/l
RT: 11.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

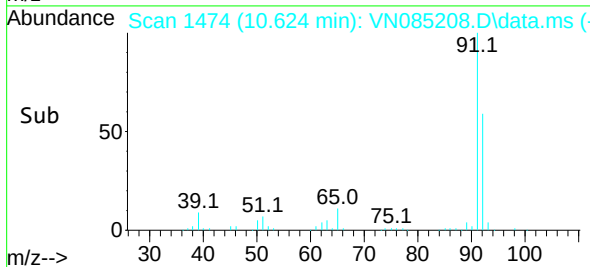
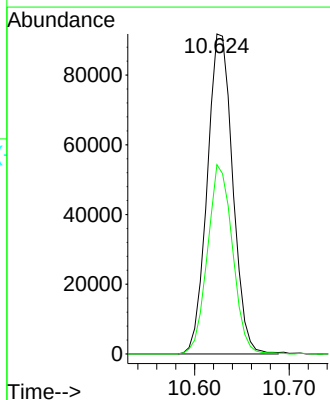
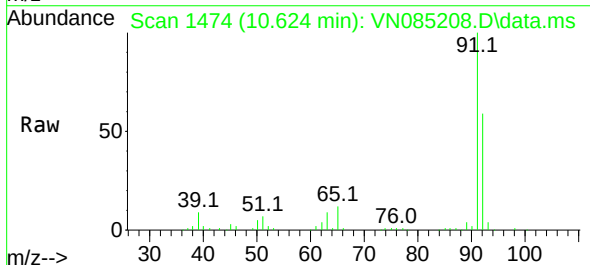


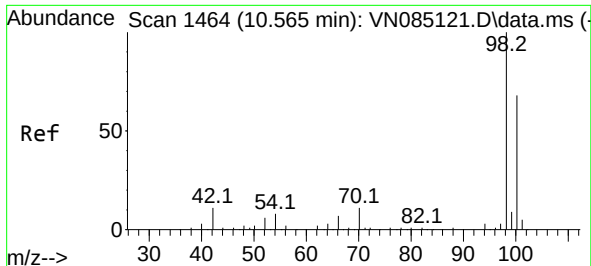
Tgt Ion:164 Resp: 36077
Ion Ratio Lower Upper
164 100
166 121.7 103.8 155.8
129 93.2 84.2 126.4
131 94.4 84.1 126.1



#62
Toluene
Concen: 18.900 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 91 Resp: 171579
Ion Ratio Lower Upper
91 100
92 58.1 46.5 69.7

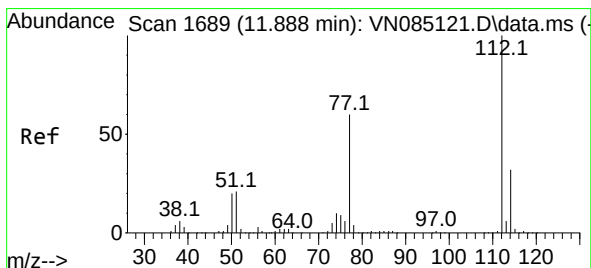
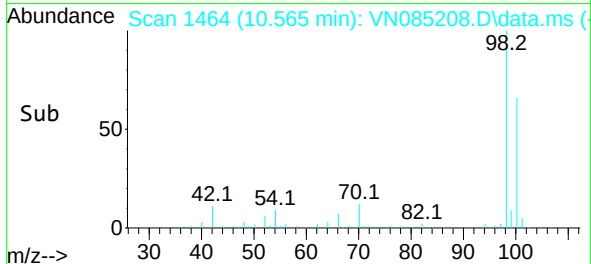
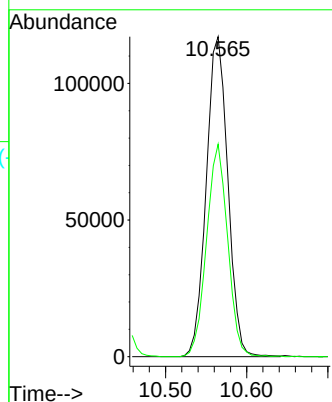
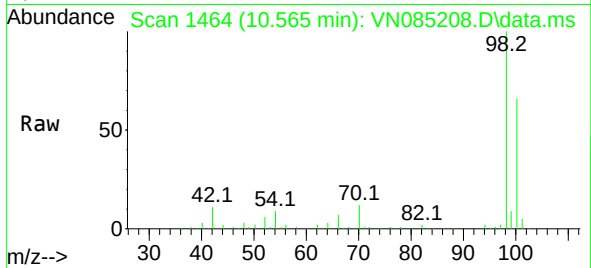




#63
Toluene-d8
Concen: 29.671 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

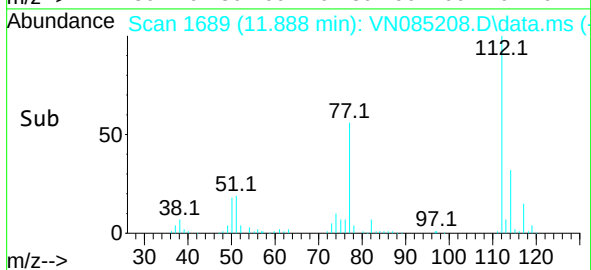
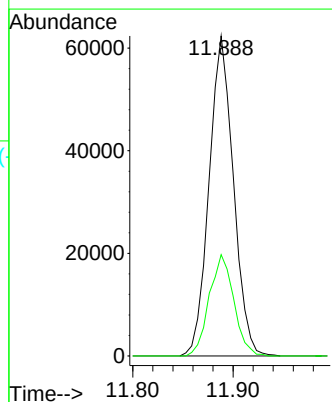
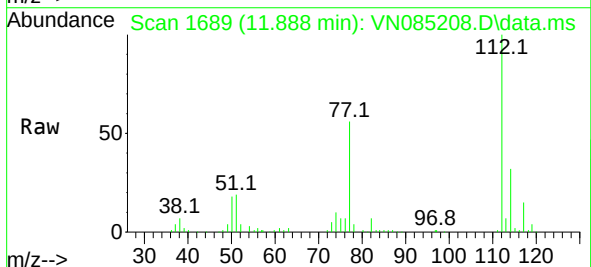
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

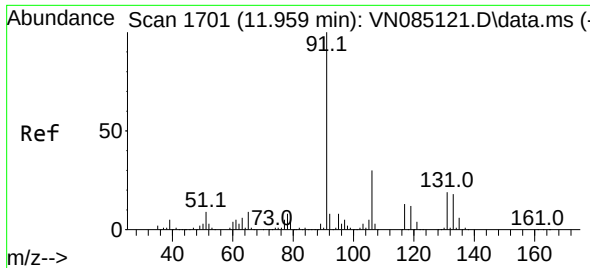
Tgt Ion: 98 Resp: 216652
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



#64
Chlorobenzene
Concen: 18.744 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 112 Resp: 105060
Ion Ratio Lower Upper
112 100
114 31.7 26.0 39.0

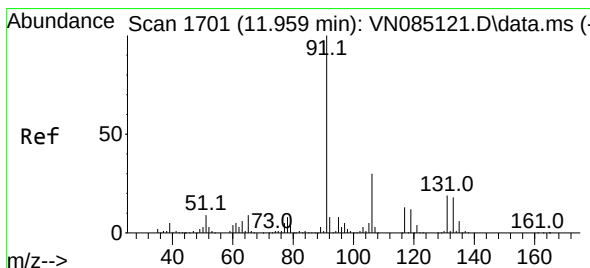
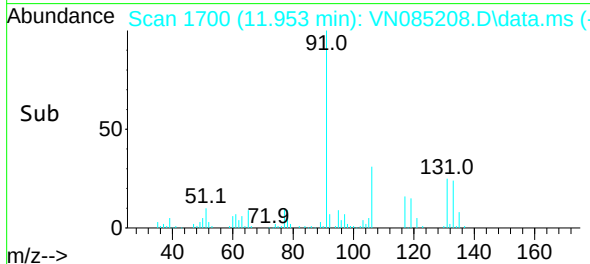
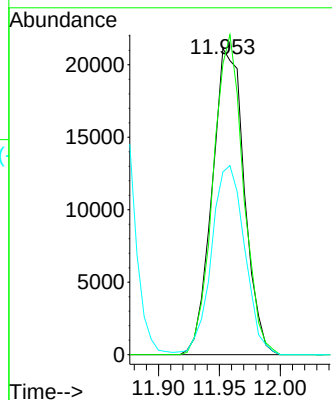
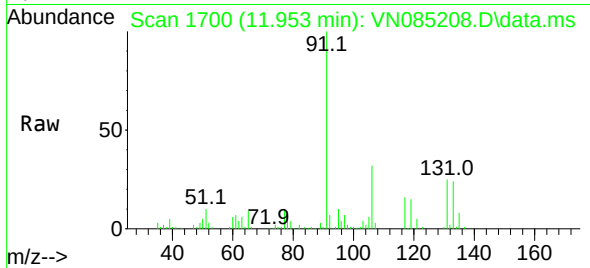




#65
1,1,1,2-Tetrachloroethane
Concen: 18.556 ug/l
RT: 11.953 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

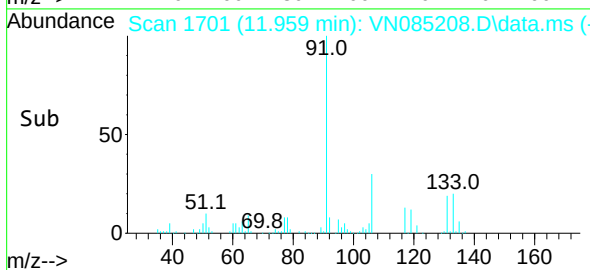
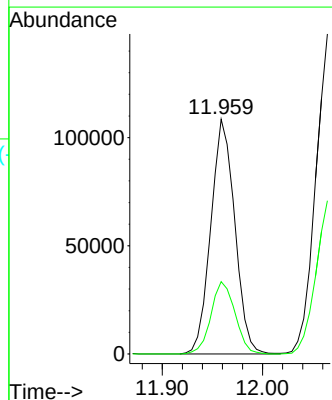
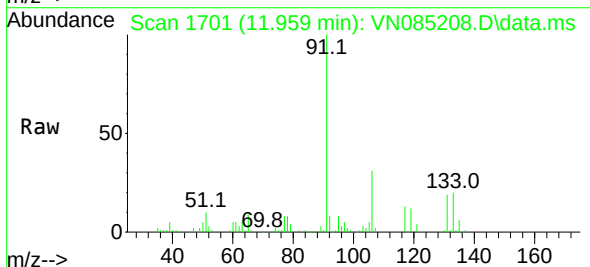
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

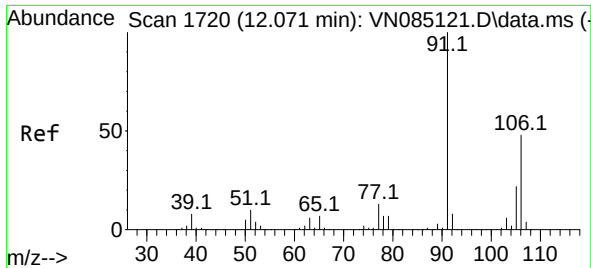
Tgt Ion:131 Resp: 38827
Ion Ratio Lower Upper
131 100
133 98.0 0.0 194.0
119 63.7 0.0 131.8



#66
Ethyl Benzene
Concen: 18.698 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 91 Resp: 180124
Ion Ratio Lower Upper
91 100
106 30.8 23.1 34.7

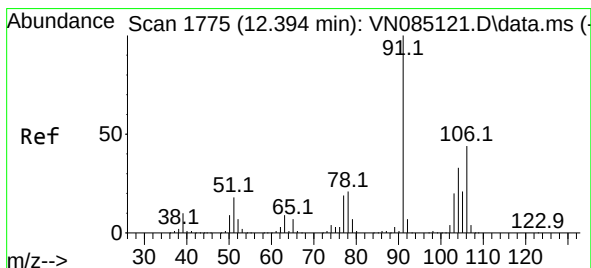
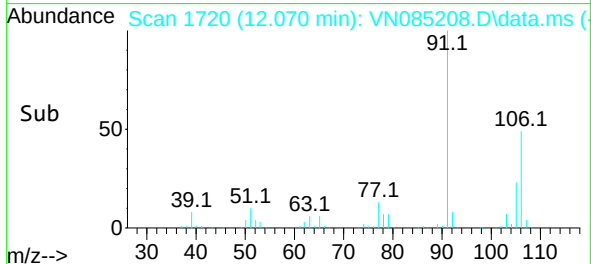
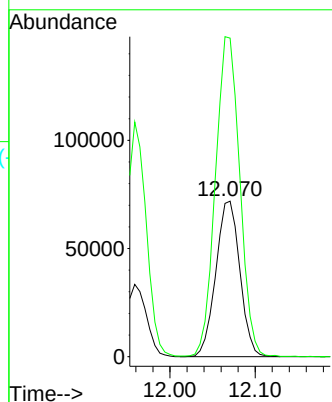
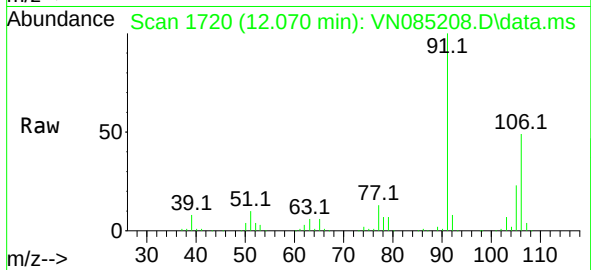




#67
m/p-Xylenes
Concen: 38.037 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

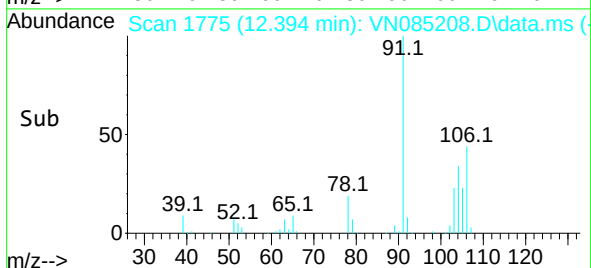
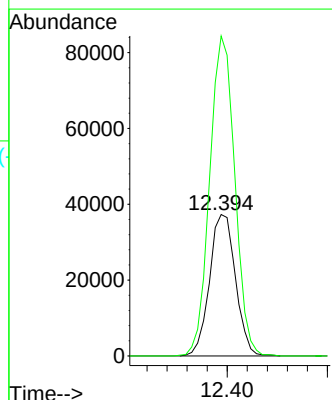
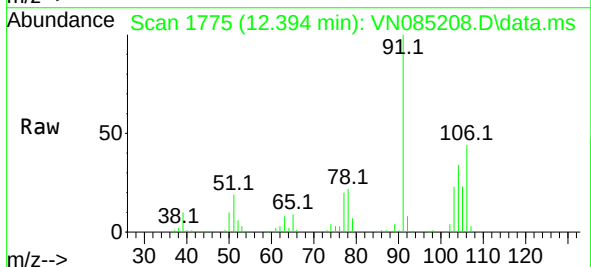
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

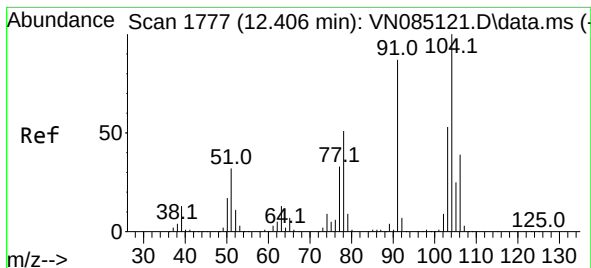
Tgt Ion:106 Resp: 140933
Ion Ratio Lower Upper
106 100
91 208.6 165.0 247.4



#68
o-Xylene
Concen: 19.229 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:106 Resp: 66910
Ion Ratio Lower Upper
106 100
91 219.0 112.1 336.4





#69

Styrene

Concen: 18.651 ug/l

RT: 12.406 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

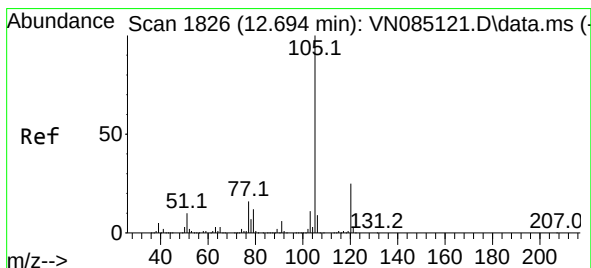
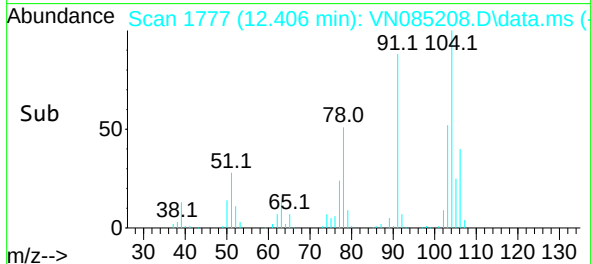
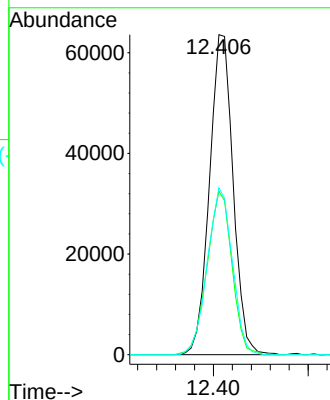
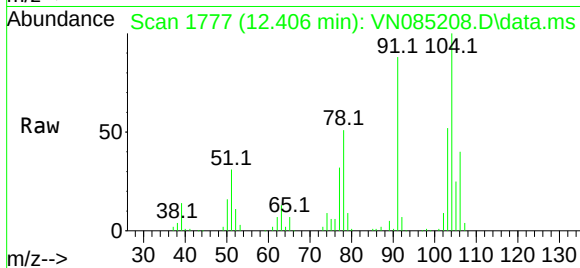
Tgt Ion:104 Resp: 110123

Ion Ratio Lower Upper

104 100

78 53.6 42.3 63.5

103 55.0 44.4 66.6



#70

Isopropylbenzene

Concen: 19.264 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN085208.D

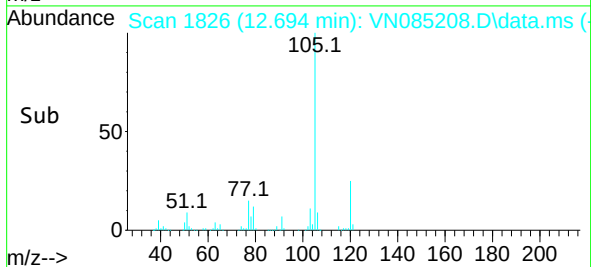
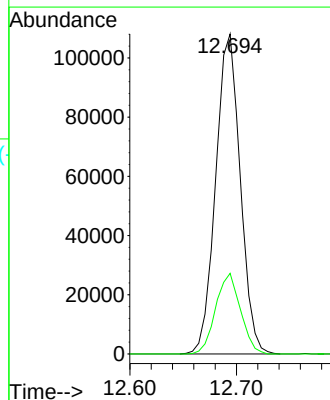
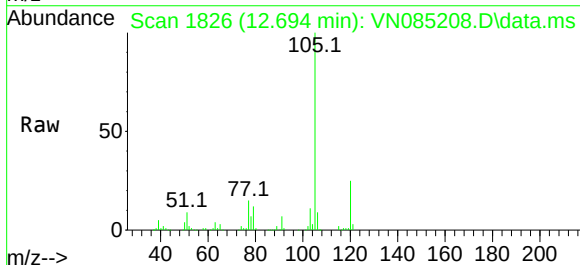
Acq: 16 Dec 2024 10:19

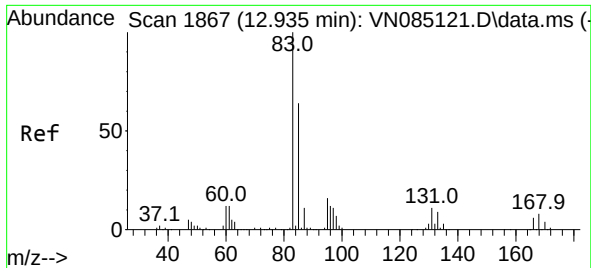
Tgt Ion:105 Resp: 172891

Ion Ratio Lower Upper

105 100

120 25.4 18.3 33.9

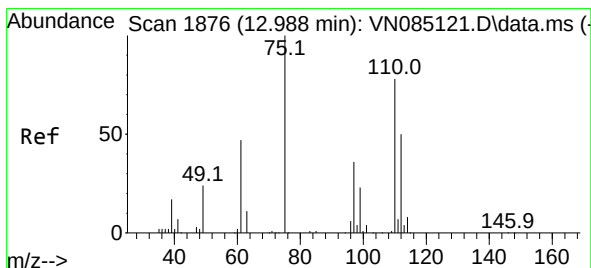
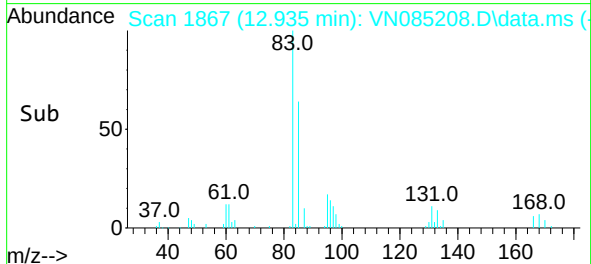
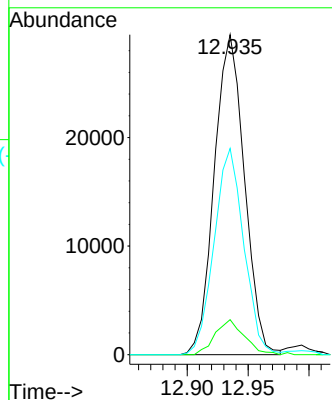
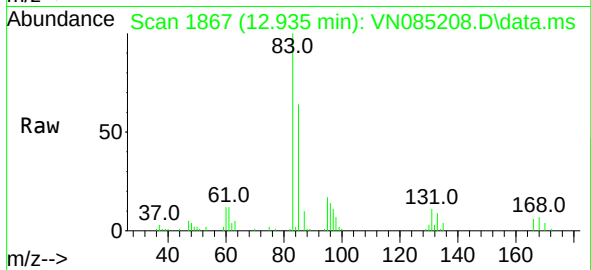




#71
1,1,2,2-Tetrachloroethane
Concen: 18.592 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

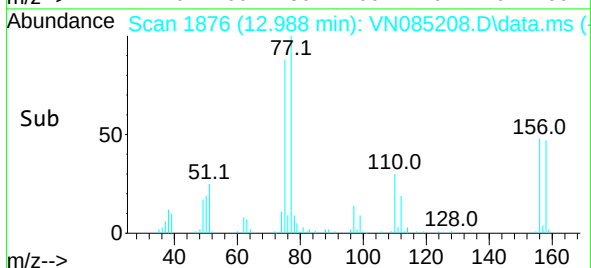
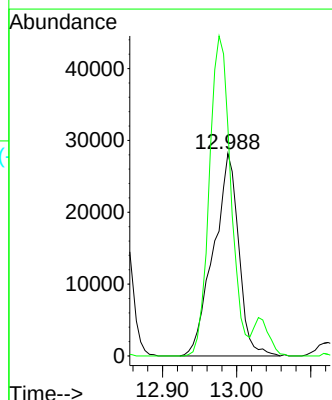
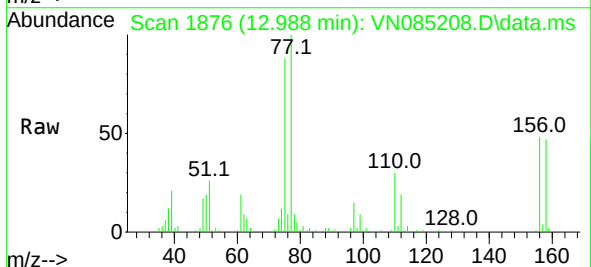
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

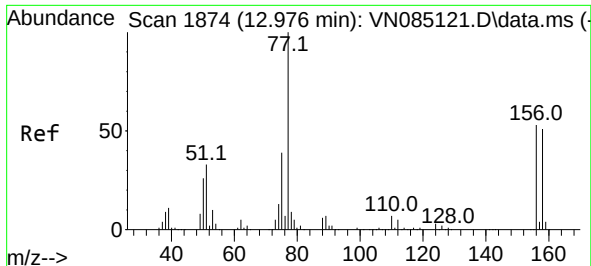
Tgt Ion: 83 Resp: 50789
Ion Ratio Lower Upper
83 100
131 10.6 5.1 15.3
85 63.5 31.1 93.5



#72
1,2,3-Trichloropropane
Concen: 24.657 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 75 Resp: 66535
Ion Ratio Lower Upper
75 100
77 134.8 0.0 339.0

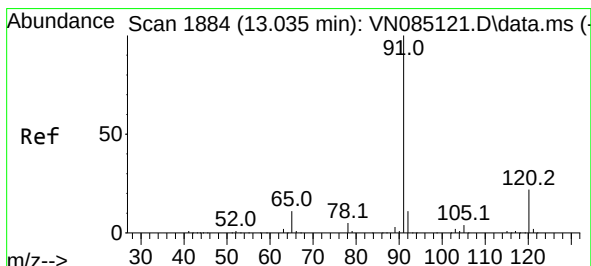
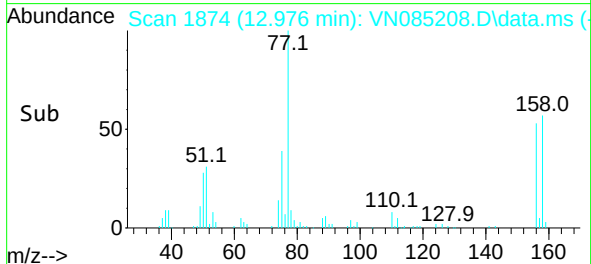
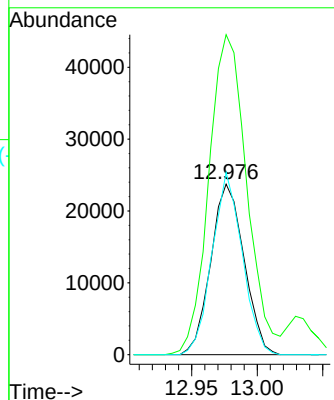
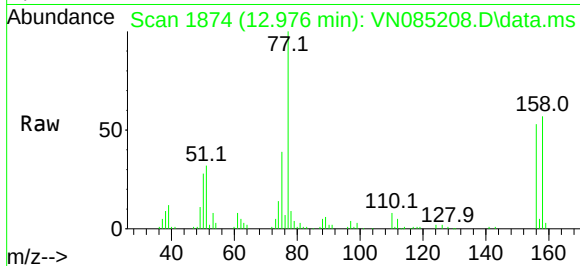




#73
Bromobenzene
Concen: 18.670 ug/l
RT: 12.976 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

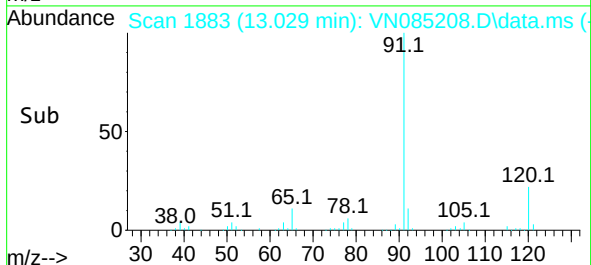
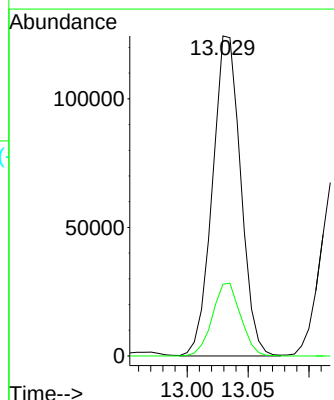
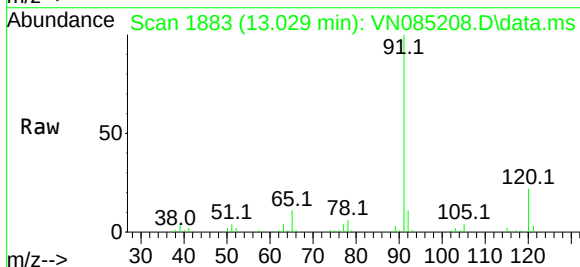
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

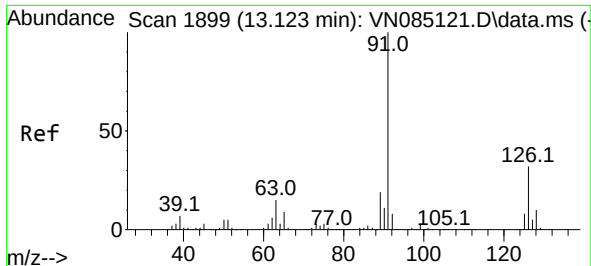
Tgt Ion:156 Resp: 41970
Ion Ratio Lower Upper
156 100
77 213.6 0.0 430.4
158 96.9 0.0 195.2



#74
n-propylbenzene
Concen: 18.628 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 91 Resp: 200993
Ion Ratio Lower Upper
91 100
120 22.7 0.0 44.0

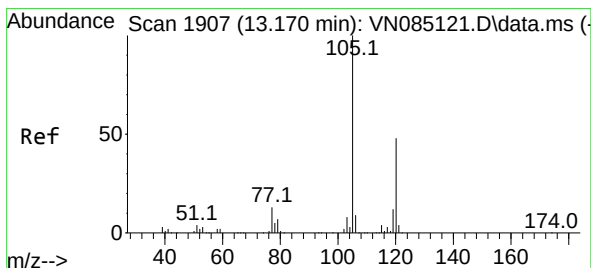
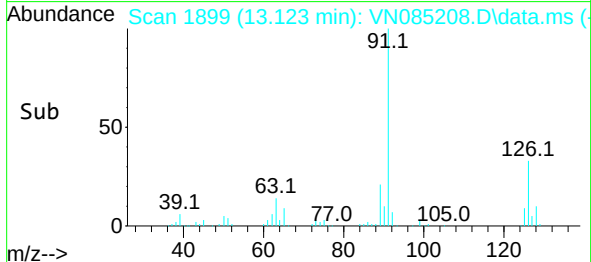
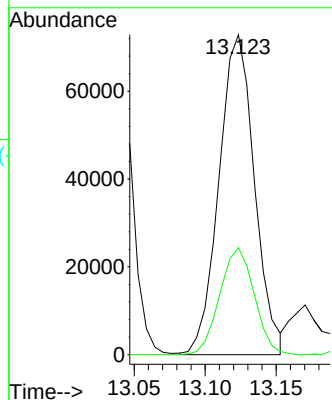
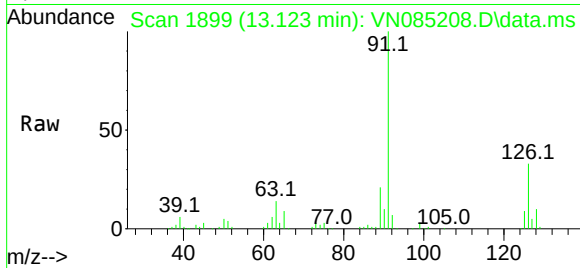




#75
2-Chlorotoluene
Concen: 18.991 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

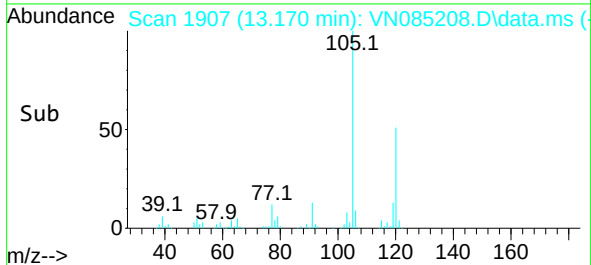
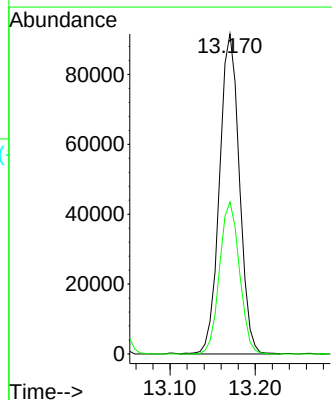
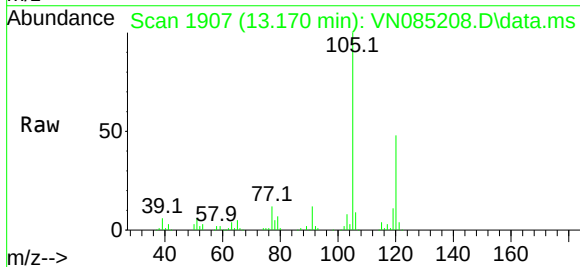
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

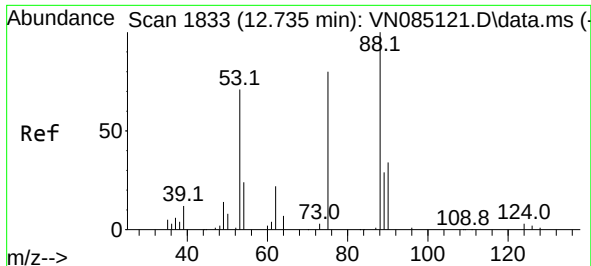
Tgt Ion: 91 Resp: 126691
Ion Ratio Lower Upper
91 100
126 32.4 0.0 64.2



#76
1,3,5-Trimethylbenzene
Concen: 19.344 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 105 Resp: 148740
Ion Ratio Lower Upper
105 100
120 47.5 0.0 94.4

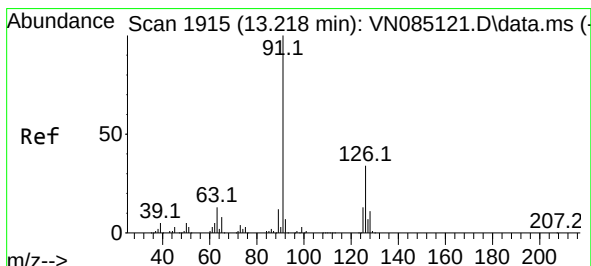
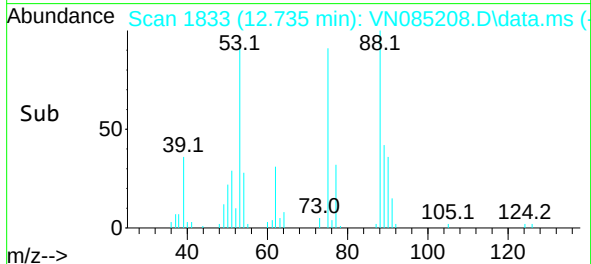
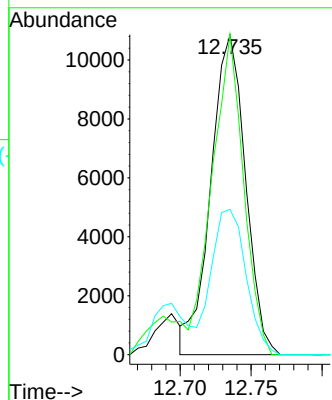
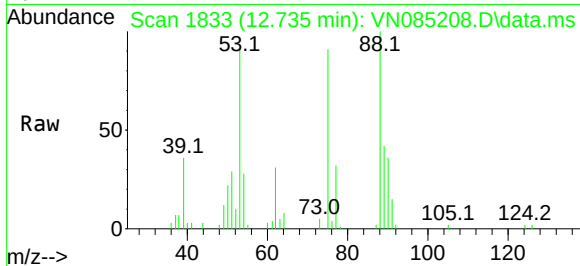




#77
t-1,4-Dichloro-2-butene
Concen: 18.768 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

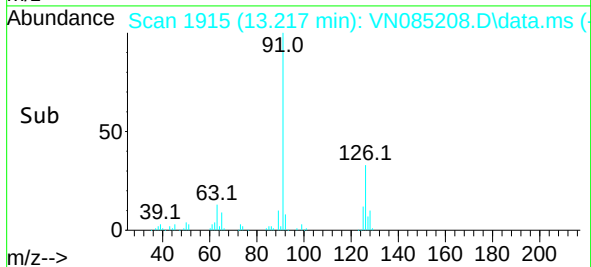
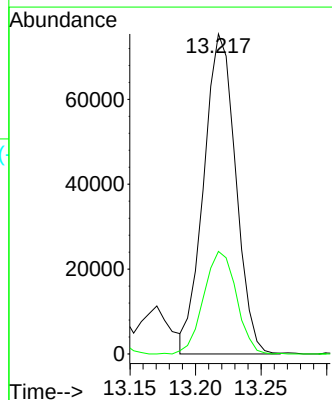
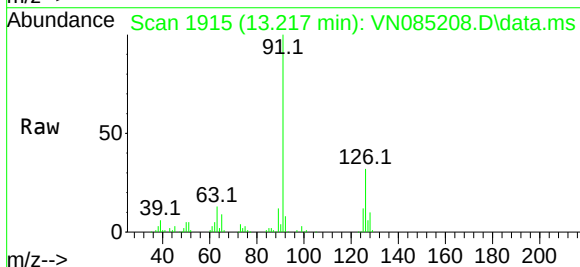
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

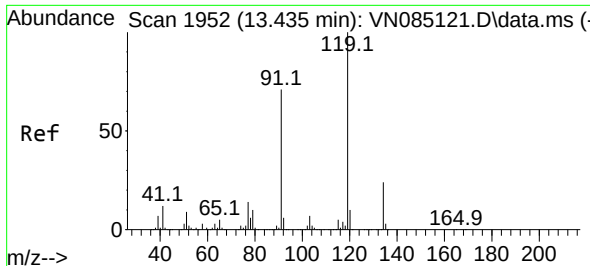
Tgt Ion:	75	Resp:	18403
Ion	Ratio	Lower	Upper
75	100		
53	100.1	49.1	147.3
89	45.4	22.9	68.5



#78
4-Chlorotoluene
Concen: 18.901 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:	91	Resp:	127983
Ion	Ratio	Lower	Upper
91	100		
126	32.6	0.0	64.4

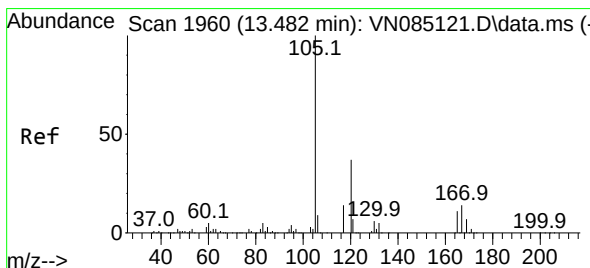
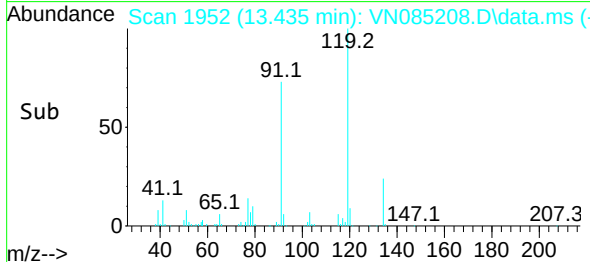
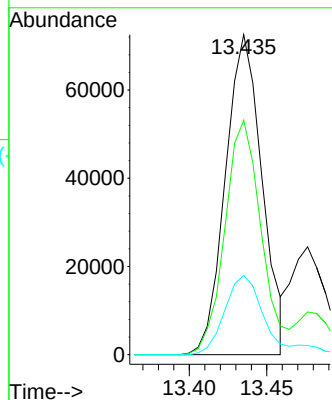
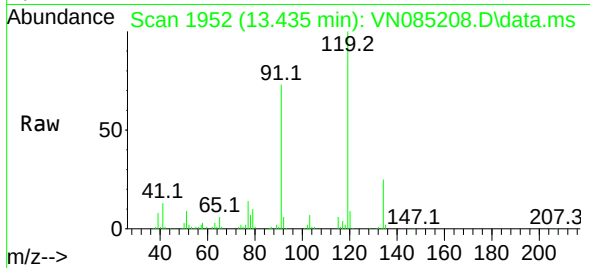




#79
tert-butylbenzene
Concen: 18.902 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

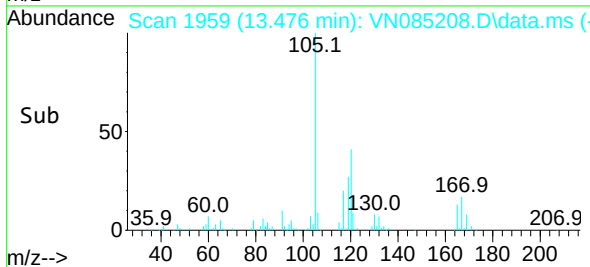
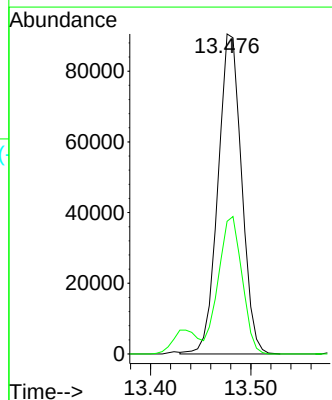
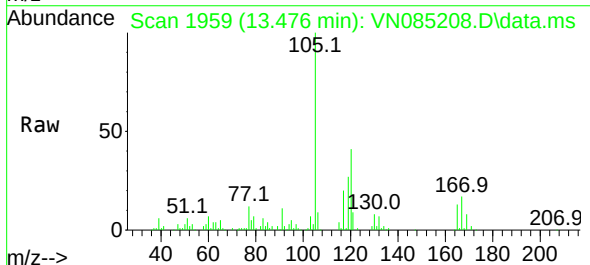
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

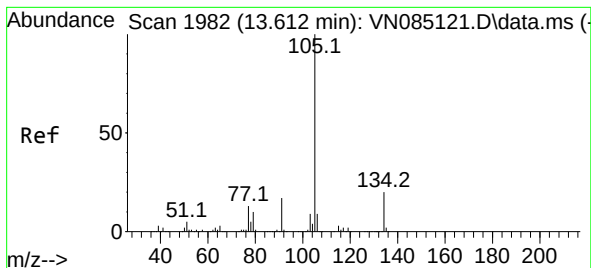
Tgt Ion:119 Resp: 119374
Ion Ratio Lower Upper
119 100
91 72.9 0.0 139.2
134 25.4 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 19.451 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:105 Resp: 147735
Ion Ratio Lower Upper
105 100
120 42.9 0.0 87.4





#81

sec-Butylbenzene

Concen: 19.039 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

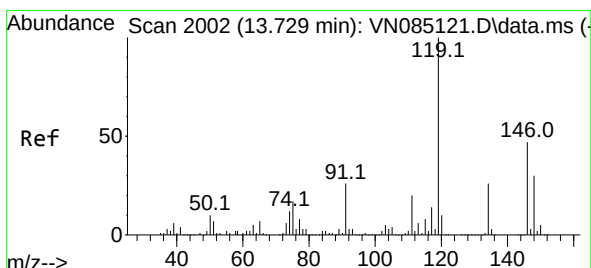
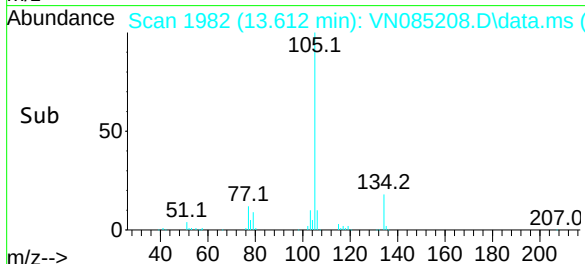
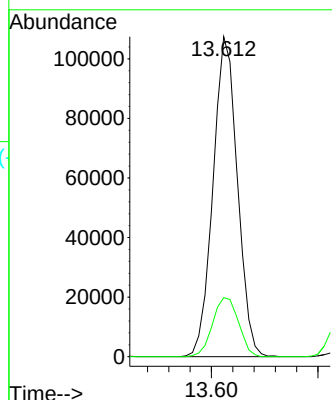
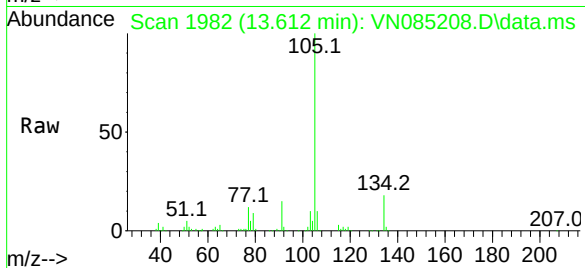
VN1216WBS01

Tgt Ion:105 Resp: 170821

Ion Ratio Lower Upper

105 100

134 19.6 0.0 38.0



#82

p-Isopropyltoluene

Concen: 19.331 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

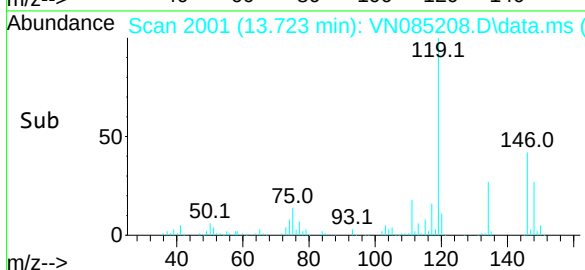
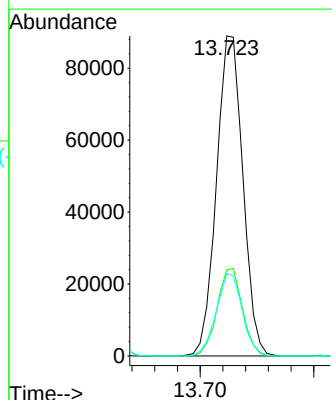
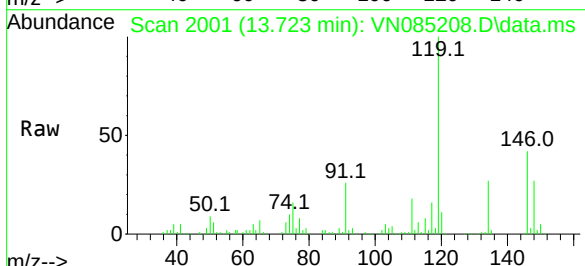
Tgt Ion:119 Resp: 143795

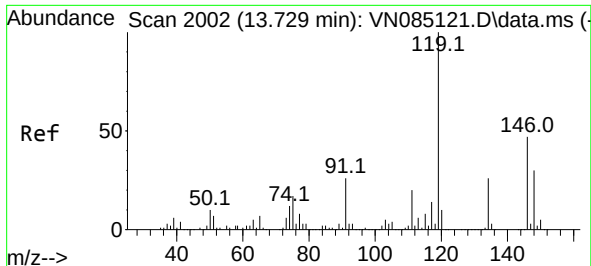
Ion Ratio Lower Upper

119 100

134 26.3 0.0 51.6

91 25.2 0.0 50.4

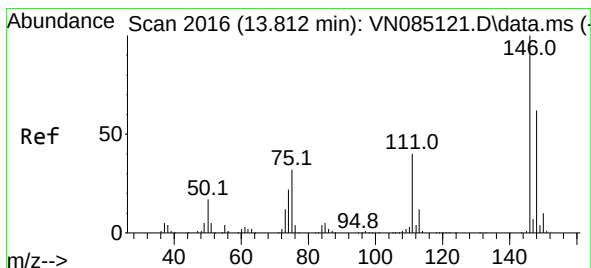
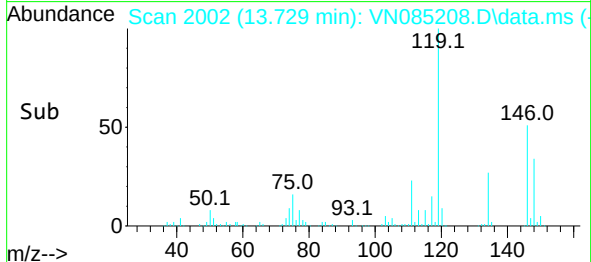
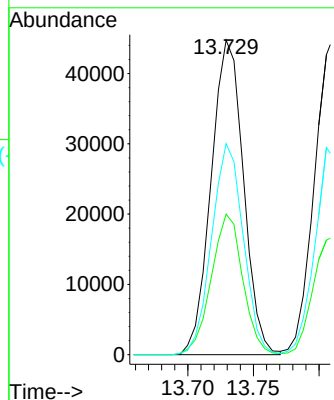
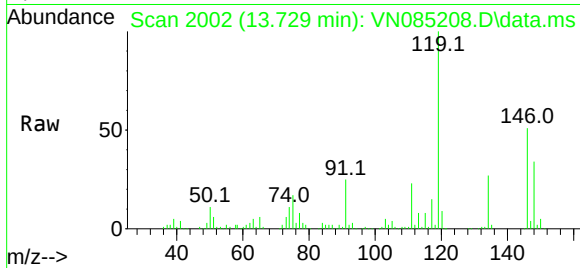




#83
 1,3-Dichlorobenzene
 Concen: 18.638 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

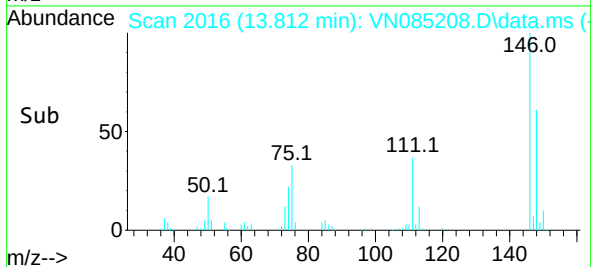
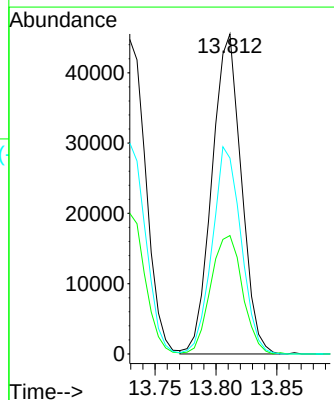
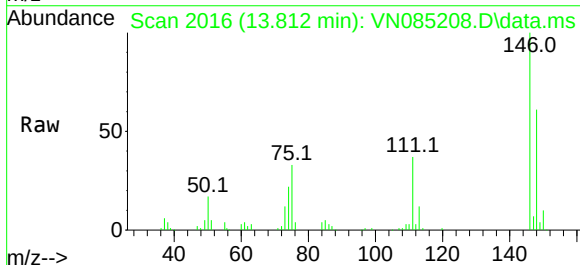
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBS01

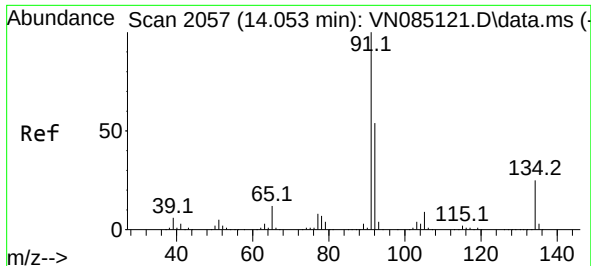
Tgt Ion:146 Resp: 76871
 Ion Ratio Lower Upper
 146 100
 111 43.6 21.1 63.3
 148 65.5 31.8 95.3



#84
 1,4-Dichlorobenzene
 Concen: 19.003 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN085208.D
 Acq: 16 Dec 2024 10:19

Tgt Ion:146 Resp: 76385
 Ion Ratio Lower Upper
 146 100
 111 40.0 20.1 60.3
 148 63.8 31.6 94.7

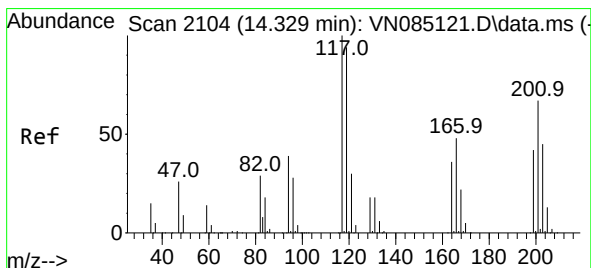
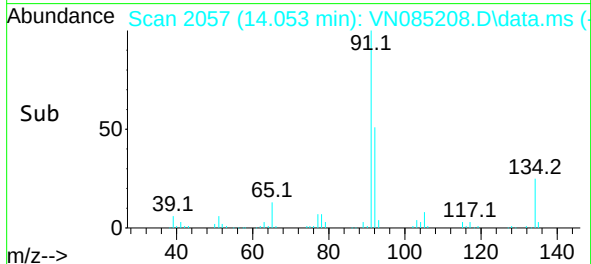
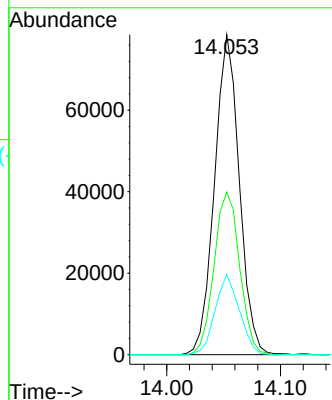
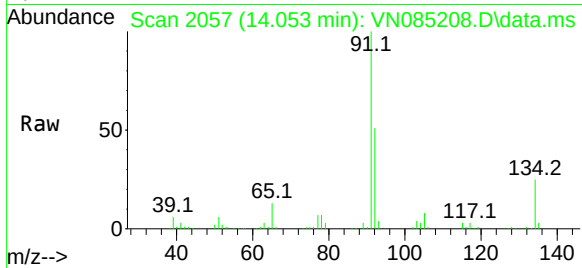




#85
n-Butylbenzene
Concen: 19.083 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

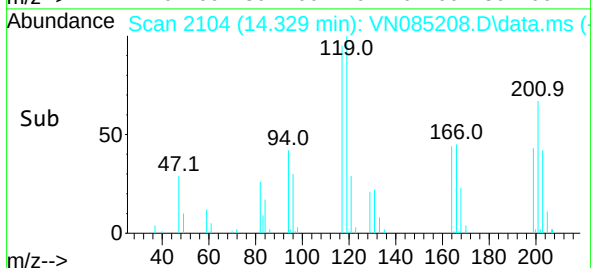
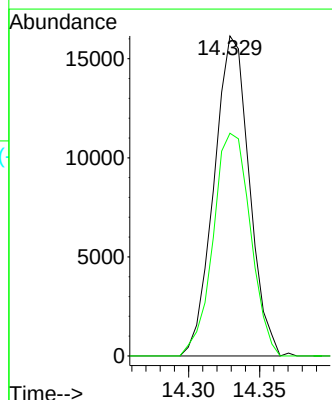
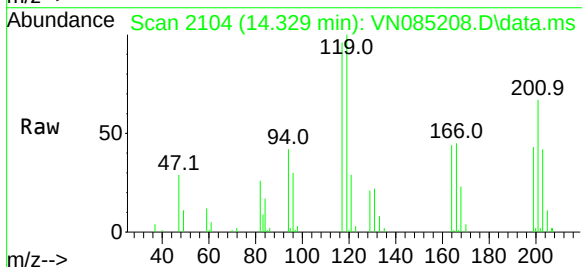
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

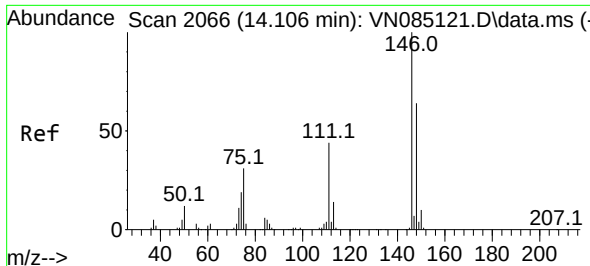
Tgt Ion: 91 Resp: 119073
Ion Ratio Lower Upper
91 100
92 52.4 0.0 104.0
134 24.5 0.0 49.2



#86
Hexachloroethane
Concen: 18.824 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion: 117 Resp: 27875
Ion Ratio Lower Upper
117 100
201 73.5 34.1 102.3





#87

1,2-Dichlorobenzene

Concen: 18.718 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

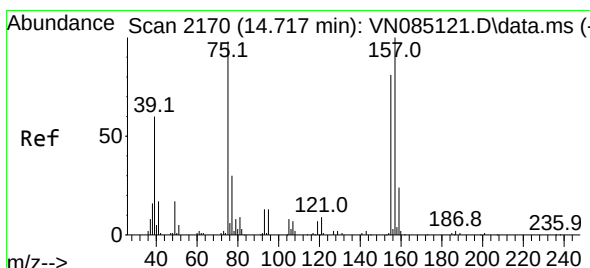
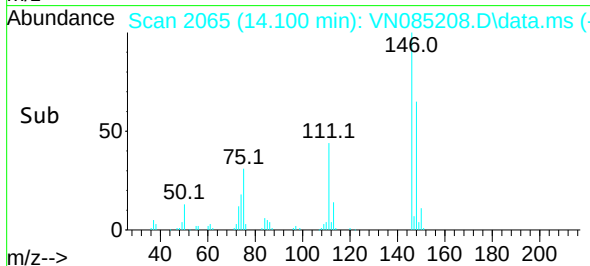
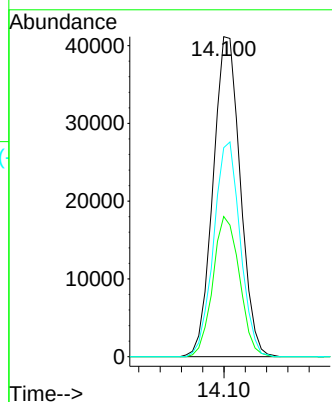
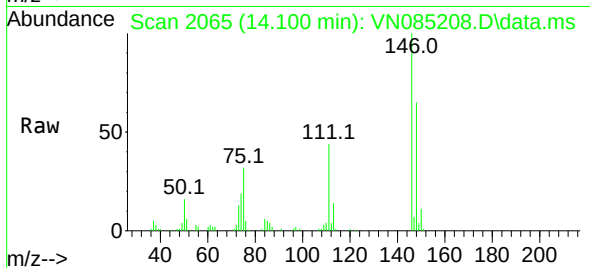
Tgt Ion:146 Resp: 72871

Ion Ratio Lower Upper

146 100

111 42.9 21.9 65.7

148 65.6 32.4 97.0



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.139 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

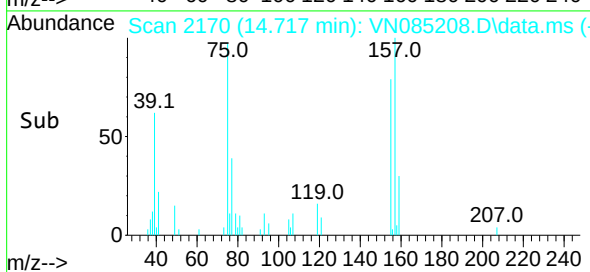
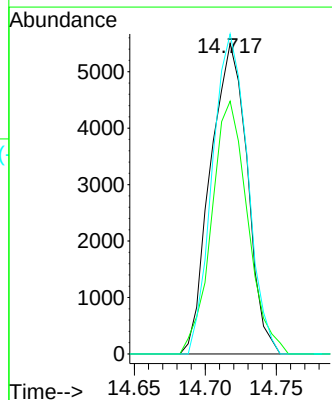
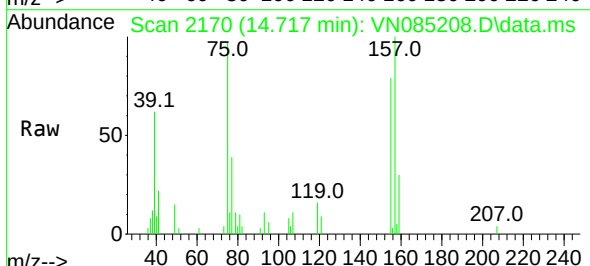
Tgt Ion: 75 Resp: 9899

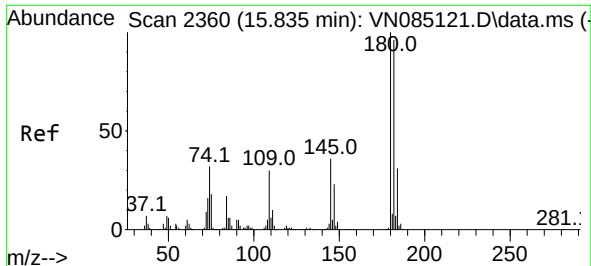
Ion Ratio Lower Upper

75 100

155 79.8 62.1 93.1

157 98.5 79.3 118.9





#89

1,2,4-Trichlorobenzene

Concen: 19.527 ug/l

RT: 15.835 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBS01

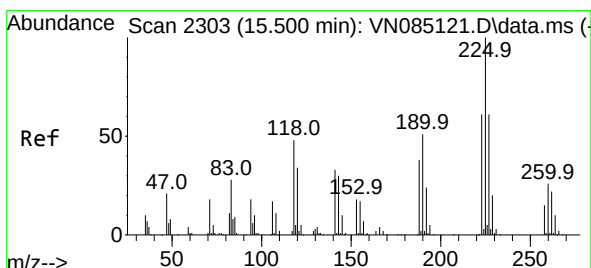
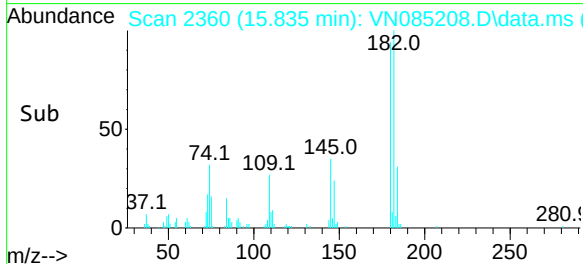
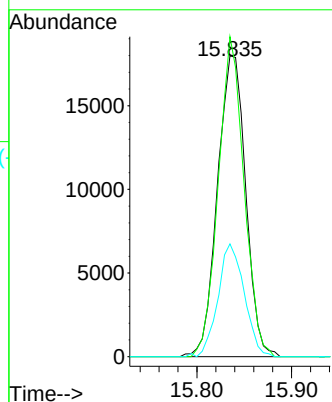
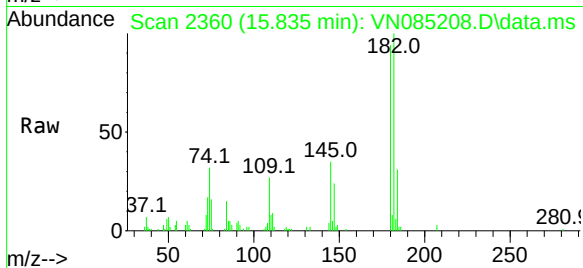
Tgt Ion:180 Resp: 37230

Ion Ratio Lower Upper

180 100

182 96.8 74.0 111.0

145 34.8 28.6 43.0



#90

Hexachlorobutadiene

Concen: 20.308 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN085208.D

Acq: 16 Dec 2024 10:19

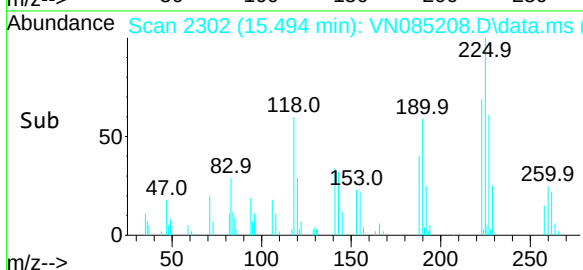
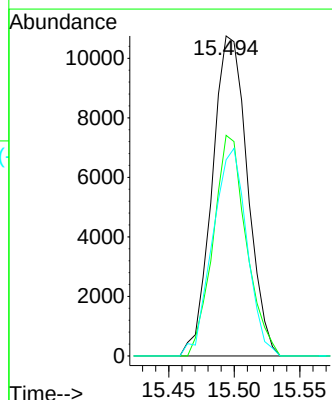
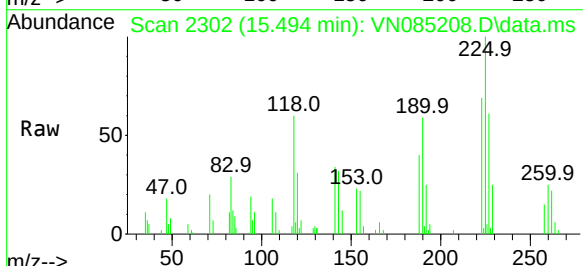
Tgt Ion:225 Resp: 20120

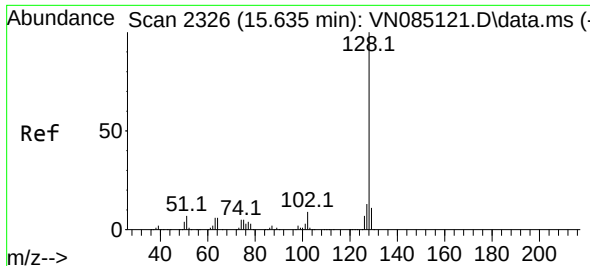
Ion Ratio Lower Upper

225 100

223 64.7 0.0 121.8

227 63.1 0.0 126.8

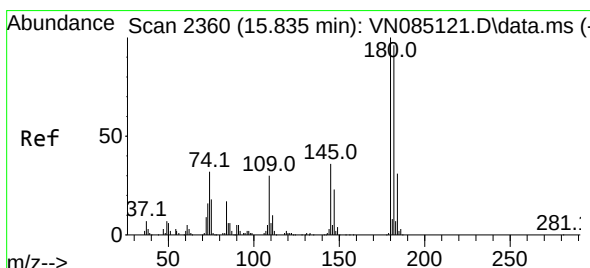
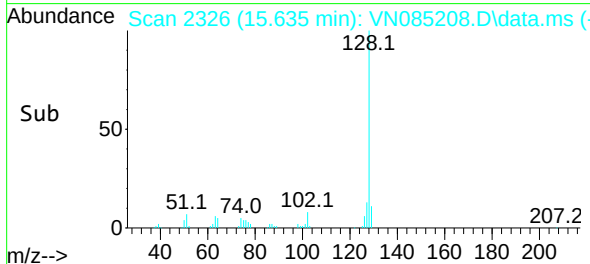
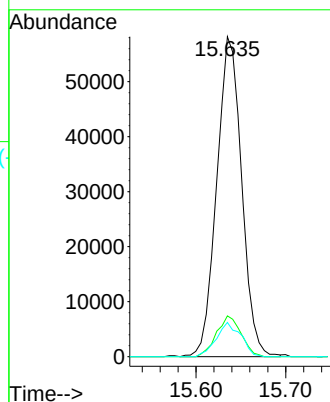
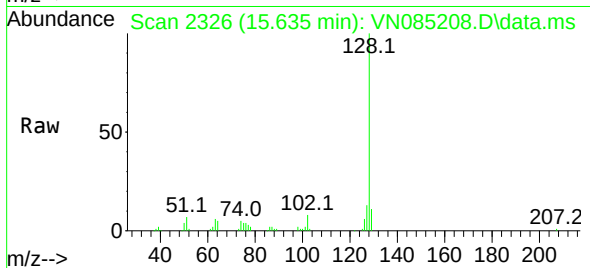




#91
Naphthalene
Concen: 18.930 ug/l
RT: 15.635 min Scan# 211
Delta R.T. -0.006 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

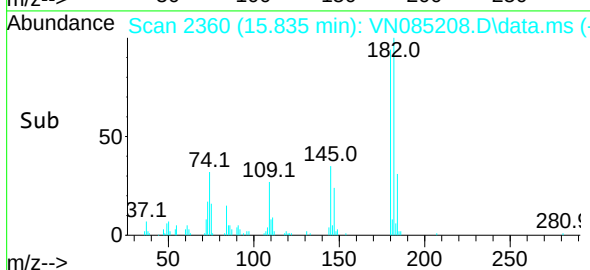
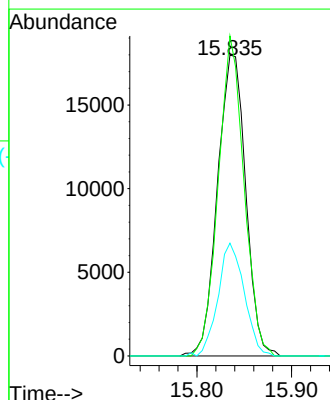
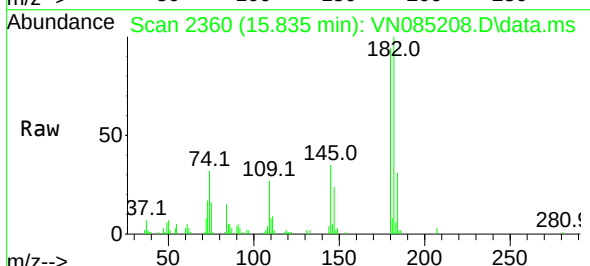
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBS01

Tgt Ion:128 Resp: 112126
Ion Ratio Lower Upper
128 100
127 12.6 11.0 16.4
129 10.6 8.7 13.1



#92
1,2,3-Trichlorobenzene
Concen: 19.527 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085208.D
Acq: 16 Dec 2024 10:19

Tgt Ion:180 Resp: 37230
Ion Ratio Lower Upper
180 100
182 96.8 0.0 185.0
145 34.8 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085209.D
 Acq On : 16 Dec 2024 10:57
 Operator : JC\MD
 Sample : VN1216WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBSD01

Quant Time: Dec 16 12:21:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29855	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	161867	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	148673	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72034	30.408	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.367%			
60) 4-Bromofluorobenzene	12.847	95	73852	30.022	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.067%			
63) Toluene-d8	10.565	98	202306	29.009	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	48095	20.136	ug/l	96
3) Chloromethane	2.359	50	40344	19.083	ug/l	92
4) Vinyl Chloride	2.512	62	45267	20.934	ug/l	96
5) Bromomethane	2.965	94	27446	19.991	ug/l	99
6) Chloroethane	3.118	64	28186	21.216	ug/l	95
7) Trichlorofluoromethane	3.501	101	72820	20.573	ug/l	97
8) Diethyl Ether	3.959	74	23793	21.222	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	39414	19.912	ug/l	88
10) 1,1-Dichloroethene	4.342	96	36096	19.853	ug/l	96
11) Methyl Iodide	4.589	142	46064	18.268	ug/l	97
12) Methyl Acetate	5.024	43	46738	21.790	ug/l	96
13) Acrolein	4.177	56	35773	114.765	ug/l	99
14) Acrylonitrile	5.718	53	91712	102.973	ug/l	96
15) Acetone	4.424	58	29139	120.730	ug/l	83
16) Carbon Disulfide	4.712	76	105348	19.385	ug/l	97
17) Allyl chloride	5.024	41	52512	20.184	ug/l	99
18) Methylene Chloride	5.277	84	41210	19.976	ug/l	92
19) trans-1,2-Dichloroethene	5.777	96	36574	19.353	ug/l	92
20) Diisopropyl ether	6.671	45	118990	20.841	ug/l	96
21) 1,1-Dichloroethane	6.565	63	71674	20.339	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	44718	20.587	ug/l	99
23) tert-Butyl Alcohol	5.512	59	35358	110.664	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	121741	21.432	ug/l #	74
25) Chloroform	7.965	83	74641	20.218	ug/l	100
26) Cyclohexane	8.253	56	56899	19.610	ug/l #	93
29) 1,1-Dichloropropene	8.371	75	51348	19.659	ug/l	95
30) 2-Butanone	7.477	43	130125	108.562	ug/l	98
31) 2,2-Dichloropropane	7.483	77	65963	19.694	ug/l #	100
32) 1,1,1-Trichloroethane	8.165	97	68382	19.342	ug/l	97
33) Carbon Tetrachloride	8.365	117	61882	19.398	ug/l	93
34) Benzene	8.600	78	159828	19.479	ug/l #	97
35) Methacrylonitrile	7.777	41	27030	20.039	ug/l	93
36) 1,2-Dichloroethane	8.665	62	54876	19.646	ug/l	99
37) Trichloroethene	9.347	130	38098	19.498	ug/l	95
38) Methylcyclohexane	9.600	83	53887	18.974	ug/l	96
39) 1,2-Dichloropropane	9.618	63	38165	19.203	ug/l	89
40) Dibromomethane	9.706	93	28463	19.966	ug/l	98
41) Bromodichloromethane	9.888	83	61025	20.024	ug/l	92
42) Vinyl Acetate	6.600	43	445381	106.188	ug/l	100

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 Data File : VN085209.D
 Acq On : 16 Dec 2024 10:57
 Operator : JC\MD
 Sample : VN1216WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VN1216WBSD01

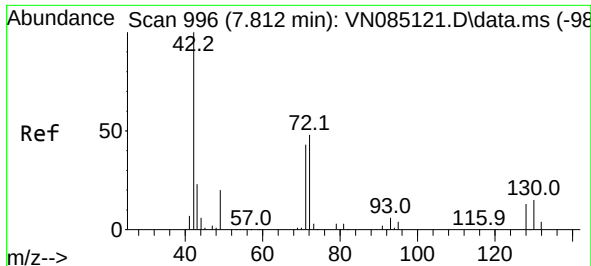
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	49449	20.734	ug/l #	92
44) Isopropyl Acetate	8.683	43	85730	20.685	ug/l	97
45) 1,4-Dioxane	9.694	88	14082	407.451	ug/l #	92
46) Methyl methacrylate	9.677	41	37774	19.915	ug/l	93
47) n-amyl Acetate	12.488	43	69551	19.945	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	59485	19.884	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	64591	19.833	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	37876	19.717	ug/l #	93
51) Ethyl methacrylate	10.871	69	59503	20.365	ug/l	90
52) 1,3-Dichloropropane	11.159	76	65044	20.232	ug/l	98
53) Dibromochloromethane	11.359	129	46465	19.848	ug/l	96
54) 1,2-Dibromoethane	11.465	107	38069	19.669	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	157517	116.053	ug/l	100
56) Bromoform	12.576	173	31005	19.753	ug/l #	97
58) 4-Methyl-2-Pentanone	10.441	43	251194	103.526	ug/l	98
59) 2-Hexanone	11.194	43	189877	103.278	ug/l	97
61) Tetrachloroethene	11.100	164	35715	19.837	ug/l	95
62) Toluene	10.630	91	169444	19.542	ug/l	100
64) Chlorobenzene	11.888	112	105294	19.669	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	41250	20.641	ug/l	93
66) Ethyl Benzene	11.959	91	180260	19.592	ug/l	95
67) m/p-Xylenes	12.071	106	139966	39.552	ug/l	99
68) o-Xylene	12.394	106	67500	20.311	ug/l	98
69) Styrene	12.406	104	113349	20.099	ug/l	100
70) Isopropylbenzene	12.694	105	170936	19.942	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	53129	20.363	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	67849	26.326	ug/l	76
73) Bromobenzene	12.976	156	43049	20.050	ug/l	99
74) n-propylbenzene	13.035	91	197415	19.157	ug/l	99
75) 2-Chlorotoluene	13.123	91	126567	19.864	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	143813	19.583	ug/l	98
77) t-1,4-Dichloro-2-butene	12.729	75	19066	20.358	ug/l	92
78) 4-Chlorotoluene	13.218	91	126224	19.518	ug/l	100
79) tert-butylbenzene	13.435	119	119154	19.754	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	145777	20.096	ug/l	99
81) sec-Butylbenzene	13.618	105	169356	19.763	ug/l	98
82) p-Isopropyltoluene	13.723	119	140763	19.813	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	77122	19.578	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	76595	19.952	ug/l	99
85) n-Butylbenzene	14.053	91	114947	19.288	ug/l	99
86) Hexachloroethane	14.335	117	27662	19.558	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	75009	20.174	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11257	21.598	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	37581	20.638	ug/l	96
90) Hexachlorobutadiene	15.500	225	19537	20.647	ug/l	96
91) Naphthalene	15.635	128	116630	20.616	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	37581	20.638	ug/l	96

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

Quant Time: Dec 16 12:21:56 2024
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

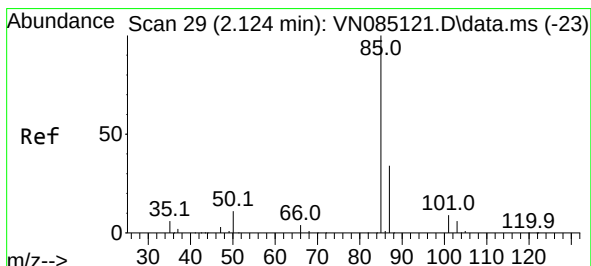
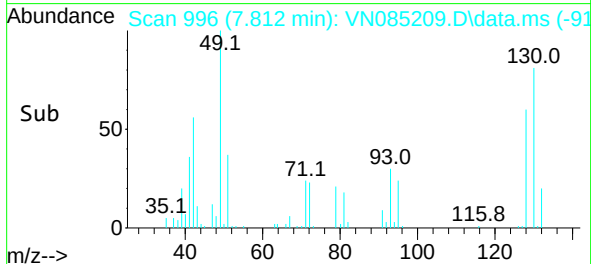
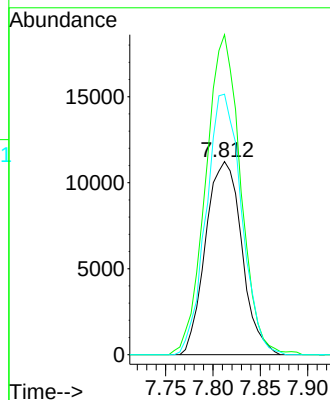
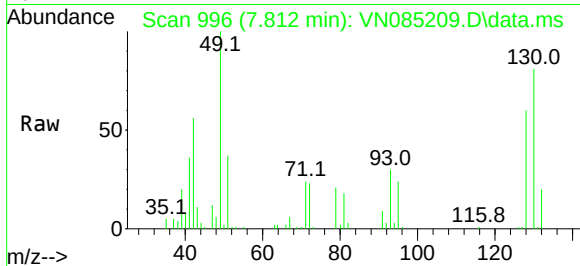




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

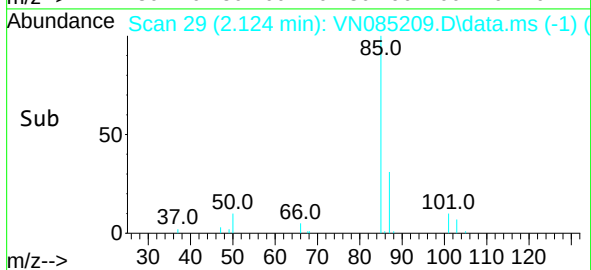
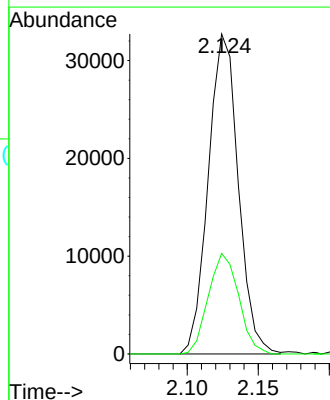
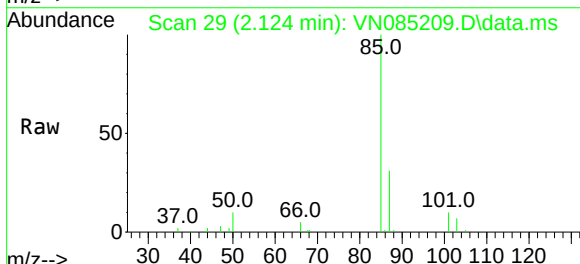
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ClientSampleId :
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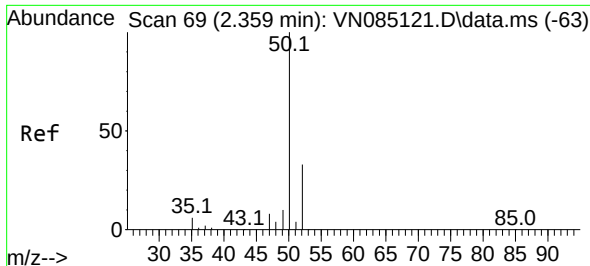
Tgt Ion:128 Resp: 29855
Ion Ratio Lower Upper
128 100
49 158.9 0.0 394.5
130 131.8 0.0 316.5



#2
Dichlorodifluoromethane
Concen: 20.136 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 85 Resp: 48095
Ion Ratio Lower Upper
85 100
87 31.5 16.8 50.3

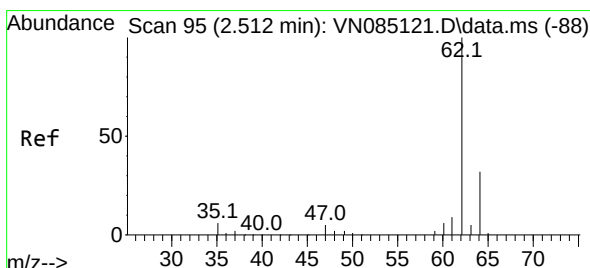
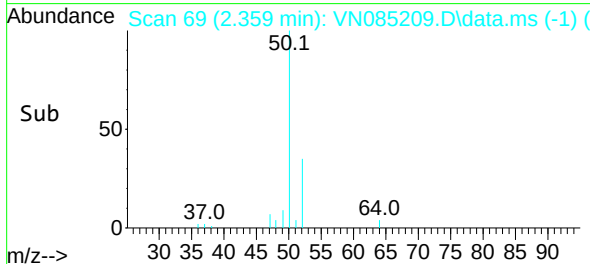
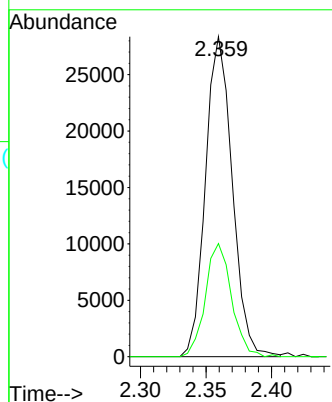
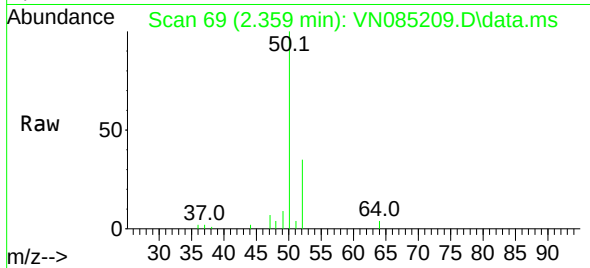




#3
Chloromethane
Concen: 19.083 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

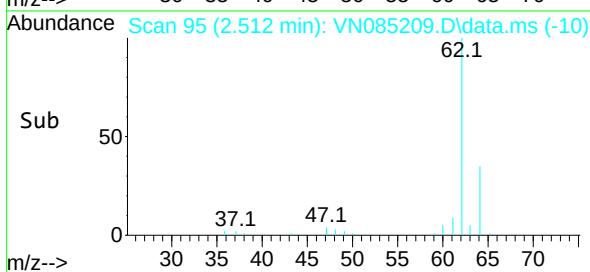
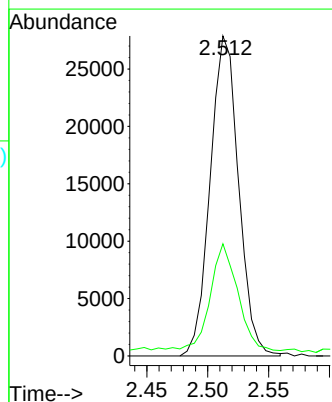
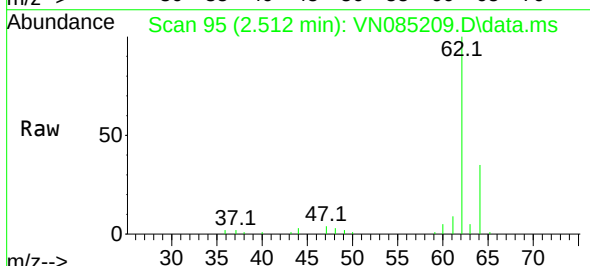
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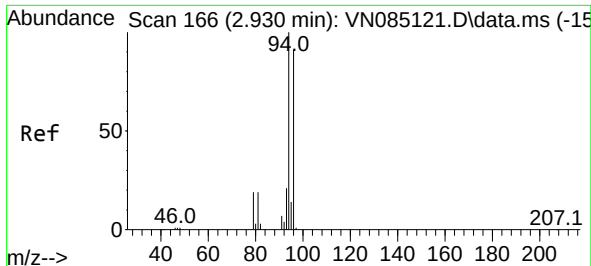
Tgt Ion: 50 Resp: 40344
Ion Ratio Lower Upper
50 100
52 35.3 25.0 37.4



#4
Vinyl Chloride
Concen: 20.934 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 62 Resp: 45267
Ion Ratio Lower Upper
62 100
64 33.3 24.9 37.3

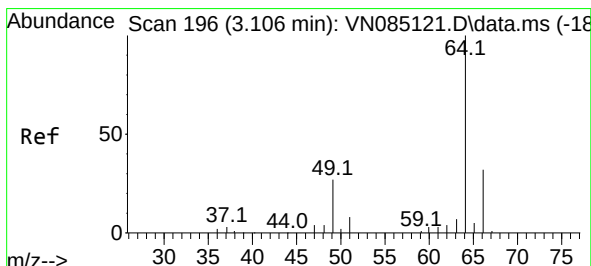
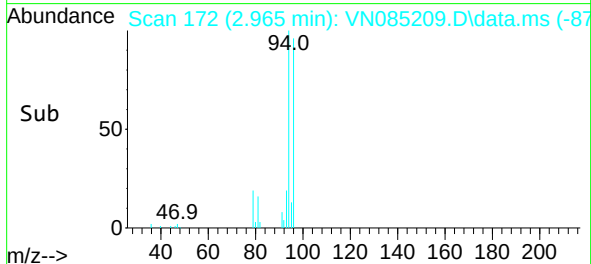
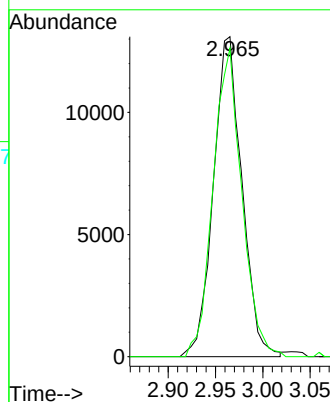
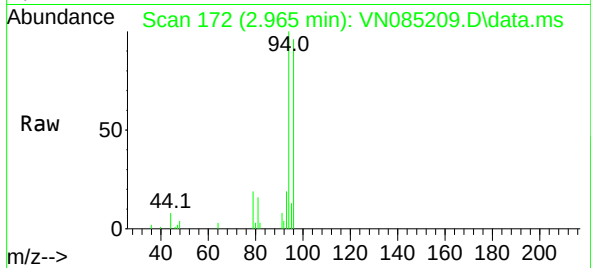




#5
Bromomethane
Concen: 19.991 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

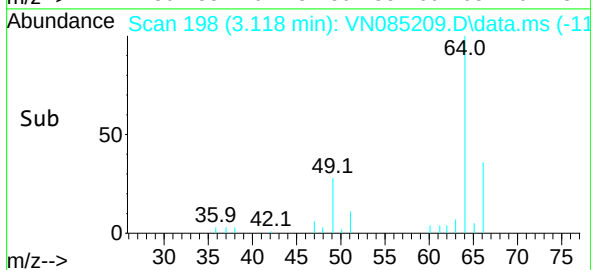
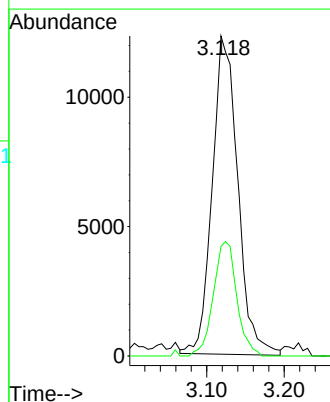
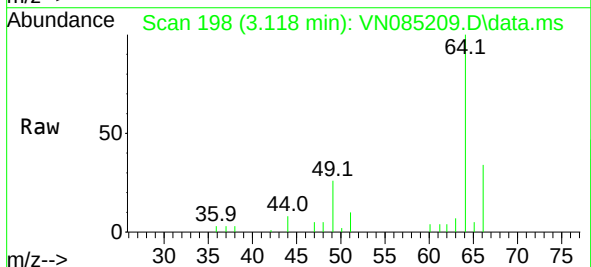
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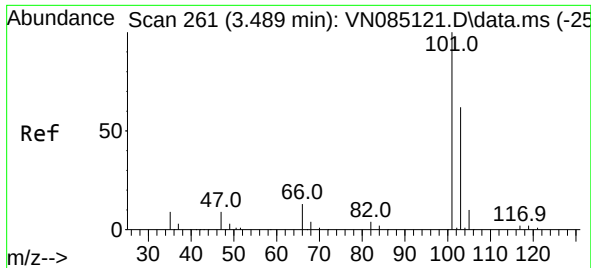
Tgt Ion: 94 Resp: 27446
Ion Ratio Lower Upper
94 100
96 96.4 76.2 114.4



#6
Chloroethane
Concen: 21.216 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 64 Resp: 28186
Ion Ratio Lower Upper
64 100
66 34.9 25.5 38.3

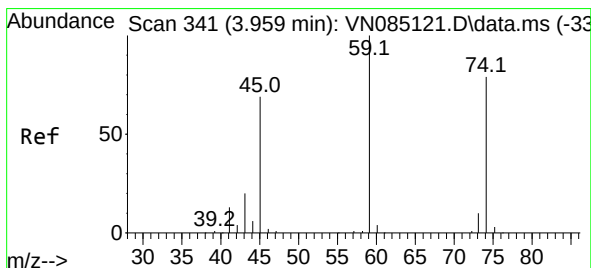
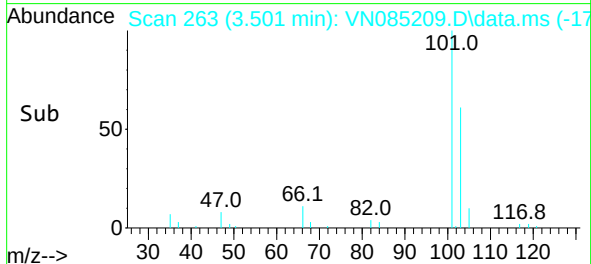
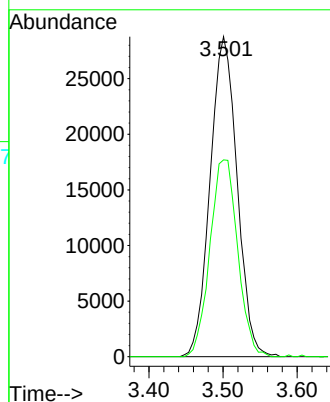
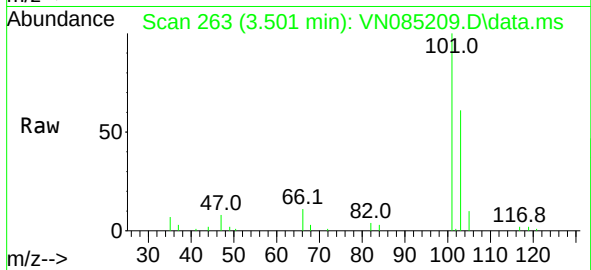




#7
 Trichlorofluoromethane
 Concen: 20.573 ug/l
 RT: 3.501 min Scan# 261
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

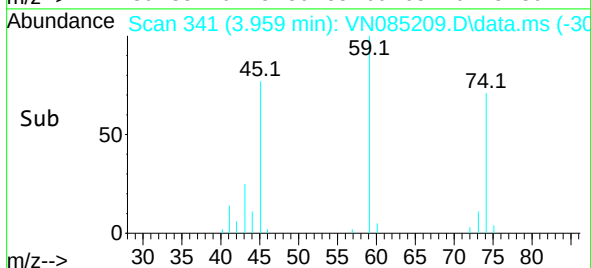
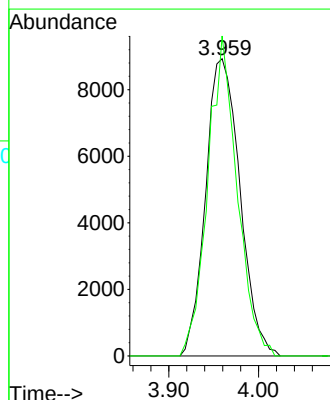
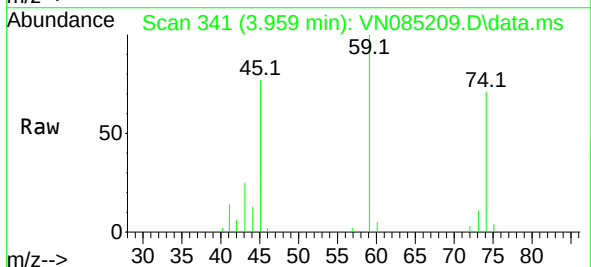
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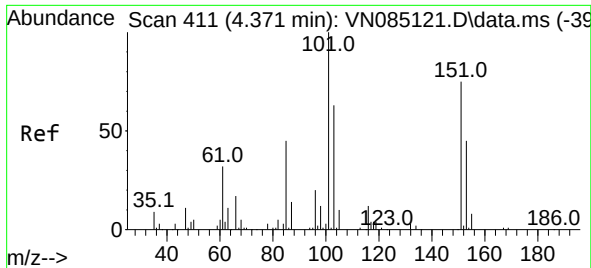
Tgt Ion:101 Resp: 72820
 Ion Ratio Lower Upper
 101 100
 103 61.5 51.3 76.9



#8
 Diethyl Ether
 Concen: 21.222 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

Tgt Ion: 74 Resp: 23793
 Ion Ratio Lower Upper
 74 100
 45 92.1 18.6 167.8

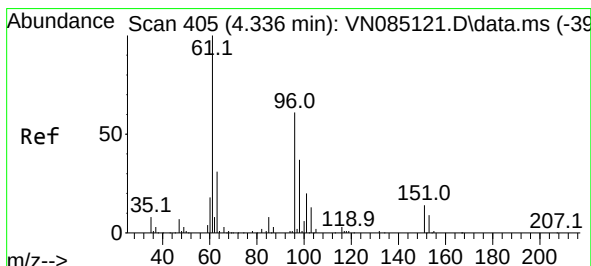
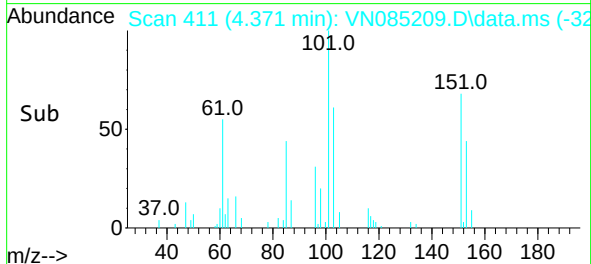
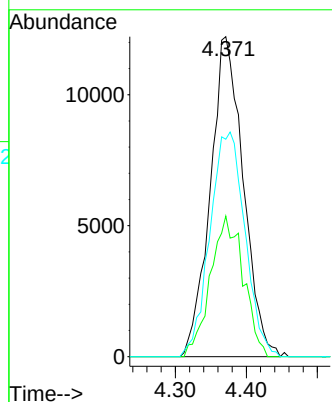
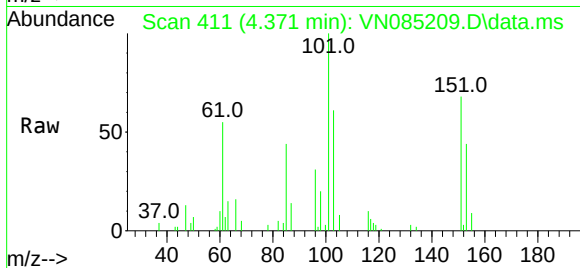




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.912 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

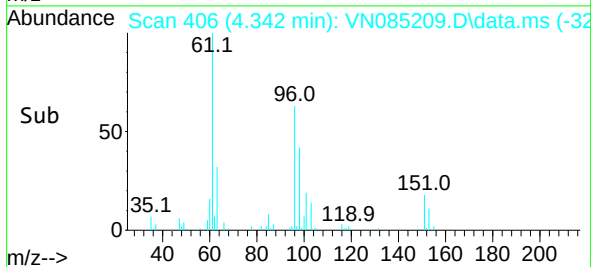
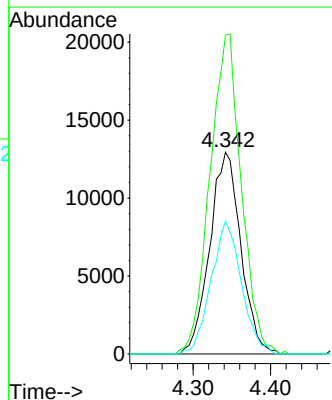
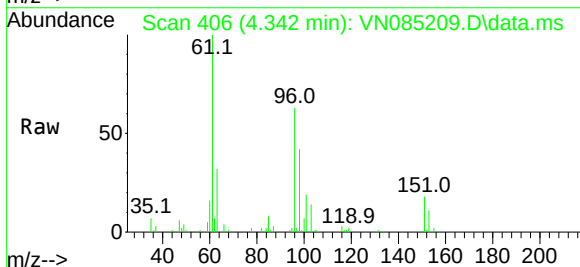
Instrument :
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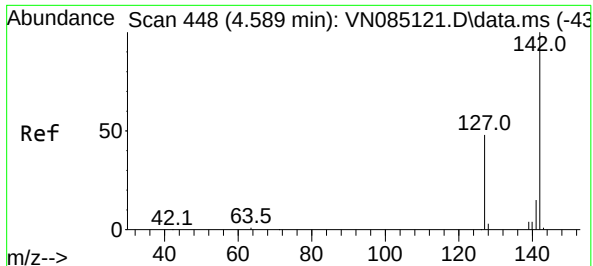
Tgt Ion:101 Resp: 39414
 Ion Ratio Lower Upper
 101 100
 85 27.1 0.0 88.6
 151 74.7 0.0 155.8



#10
 1,1-Dichloroethene
 Concen: 19.853 ug/l
 RT: 4.342 min Scan# 406
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

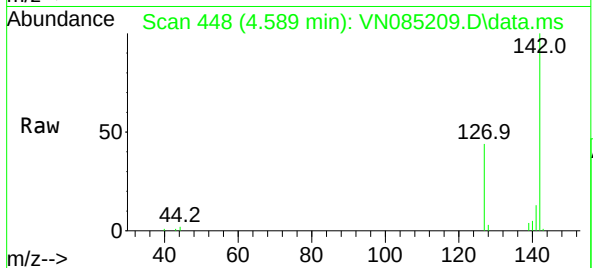
Tgt Ion: 96 Resp: 36096
 Ion Ratio Lower Upper
 96 100
 61 157.9 123.0 184.4
 98 65.9 49.1 73.7



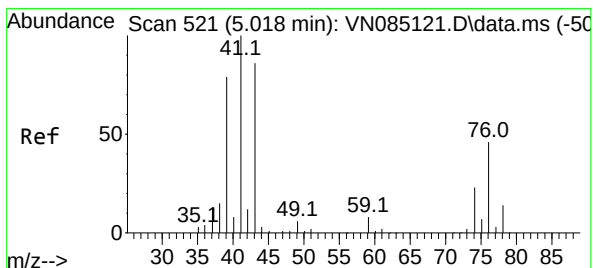
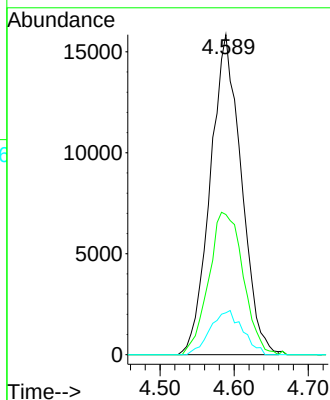
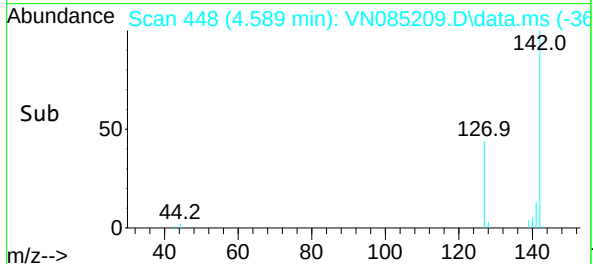


#11
Methyl Iodide
Concen: 18.268 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

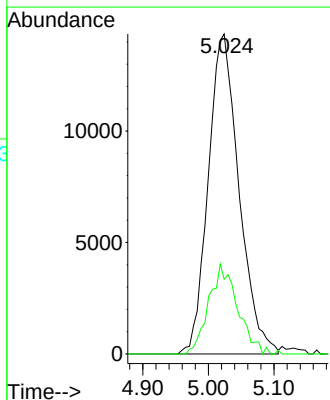
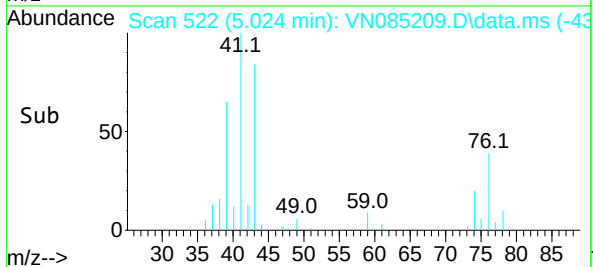
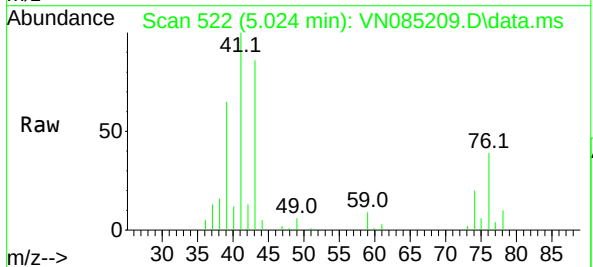


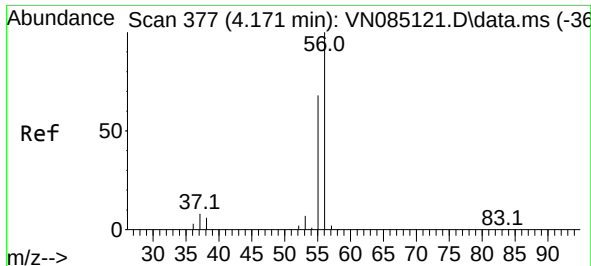
Tgt Ion:142 Resp: 46064
Ion Ratio Lower Upper
142 100
127 44.0 22.5 67.5
141 13.2 8.3 24.9



#12
Methyl Acetate
Concen: 21.790 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 43 Resp: 46738
Ion Ratio Lower Upper
43 100
74 22.9 19.8 29.6





#13

Acrolein

Concen: 114.765 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

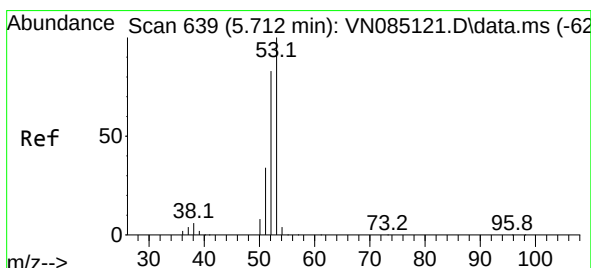
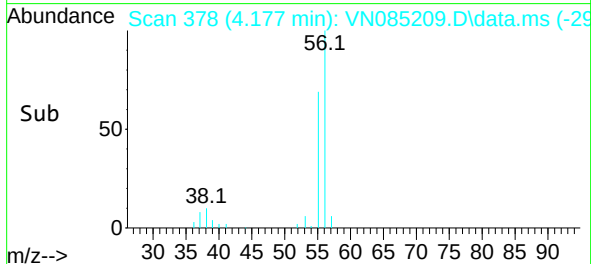
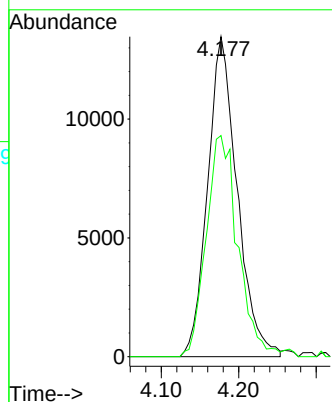
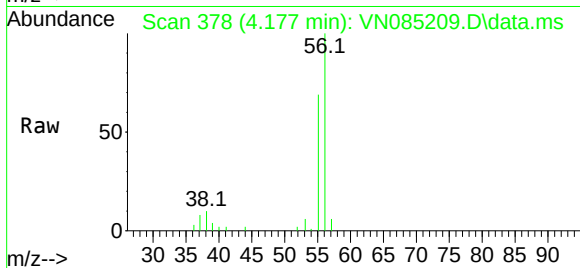
VN1216WBSD01

Tgt Ion: 56 Resp: 35773

Ion Ratio Lower Upper

56 100

55 73.0 59.4 89.0



#14

Acrylonitrile

Concen: 102.973 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

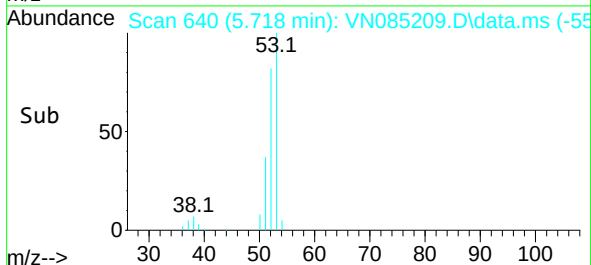
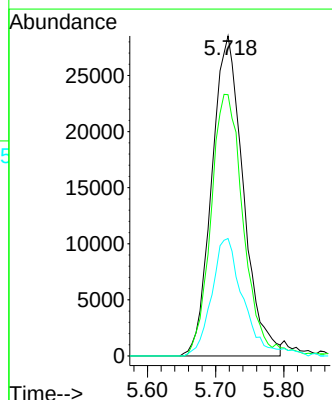
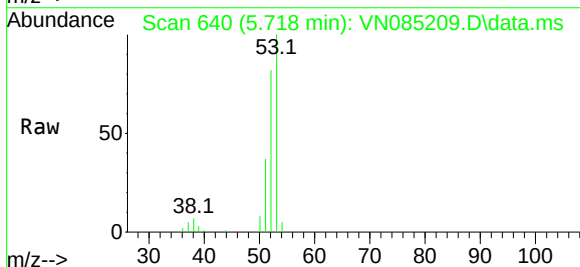
Tgt Ion: 53 Resp: 91712

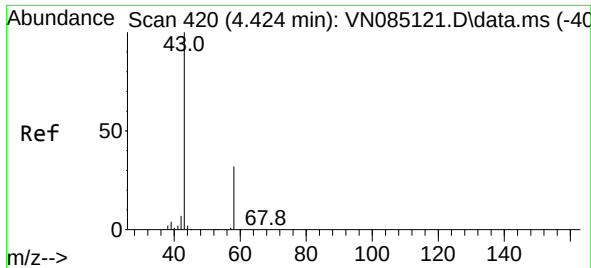
Ion Ratio Lower Upper

53 100

52 82.4 42.9 128.5

51 36.2 17.2 51.5





#15

Acetone

Concen: 120.730 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

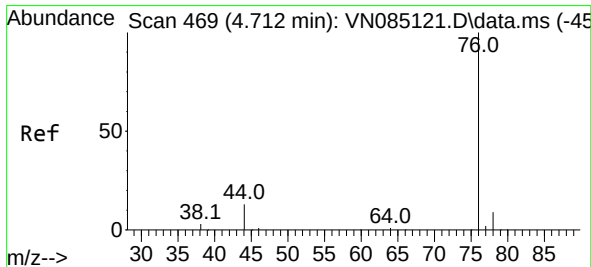
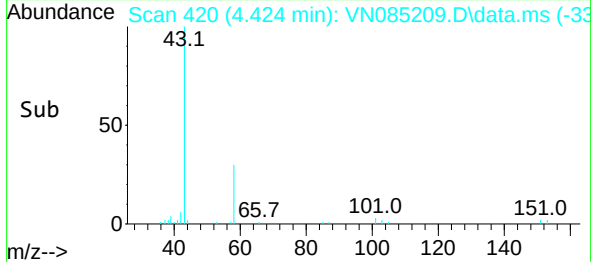
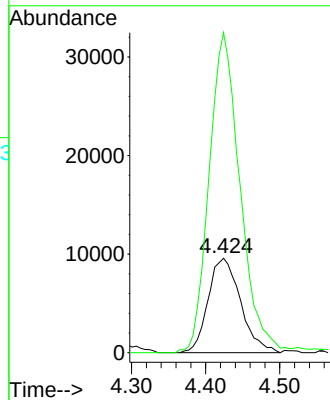
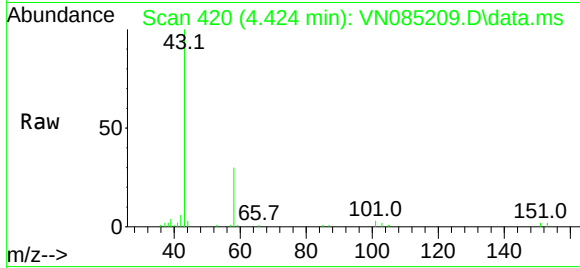
VN1216WBSD01

Tgt Ion: 58 Resp: 29139

Ion Ratio Lower Upper

58 100

43 335.6 242.3 363.5



#16

Carbon Disulfide

Concen: 19.385 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085209.D

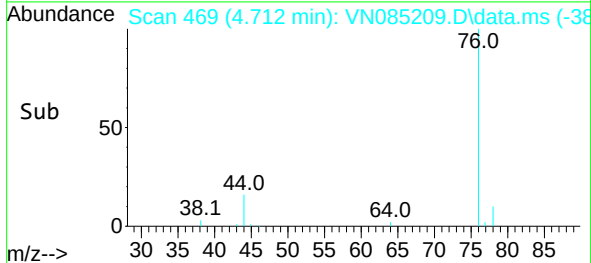
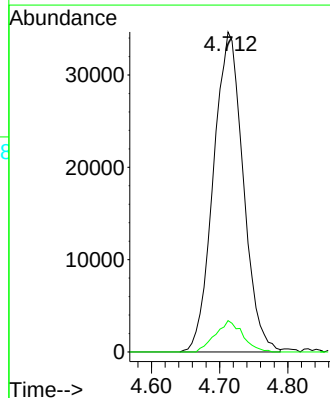
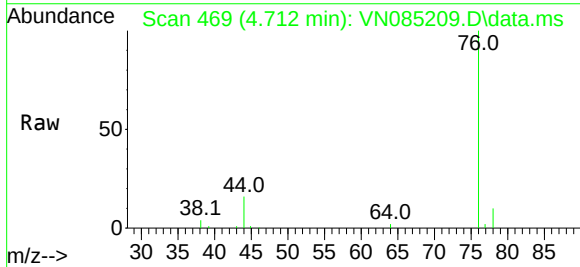
Acq: 16 Dec 2024 10:57

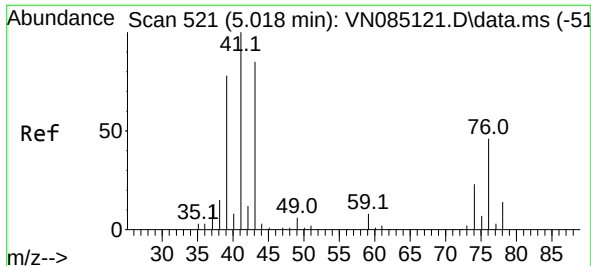
Tgt Ion: 76 Resp: 105348

Ion Ratio Lower Upper

76 100

78 9.8 7.1 10.7

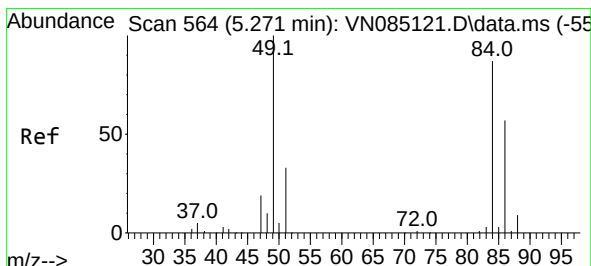
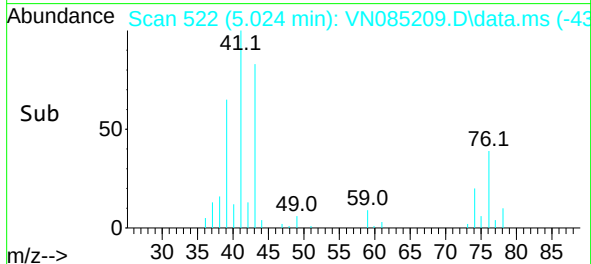
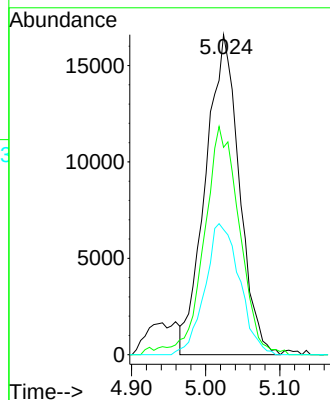
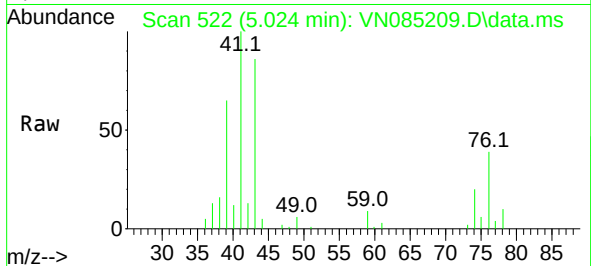




#17
 Allyl chloride
 Concen: 20.184 ug/l
 RT: 5.024 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

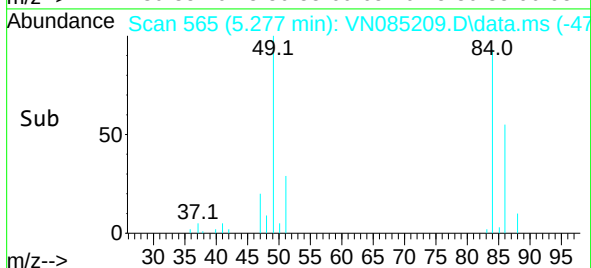
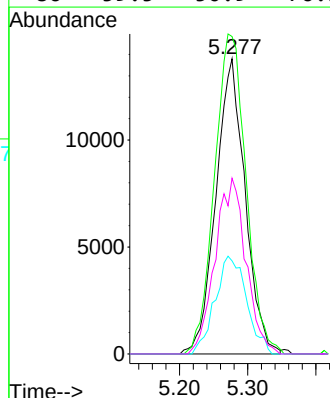
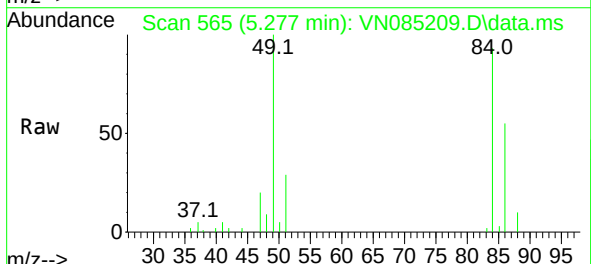
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBSD01

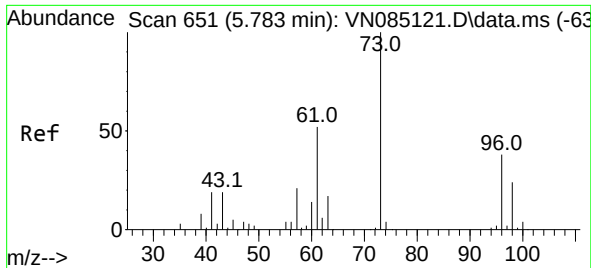
Tgt Ion: 41 Resp: 52512
 Ion Ratio Lower Upper
 41 100
 39 63.8 32.0 96.2
 76 39.1 20.2 60.5



#18
 Methylene Chloride
 Concen: 19.976 ug/l
 RT: 5.277 min Scan# 565
 Delta R.T. 0.006 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

Tgt Ion: 84 Resp: 41210
 Ion Ratio Lower Upper
 84 100
 49 107.5 95.1 142.7
 51 31.5 27.4 41.0
 86 59.5 50.9 76.3

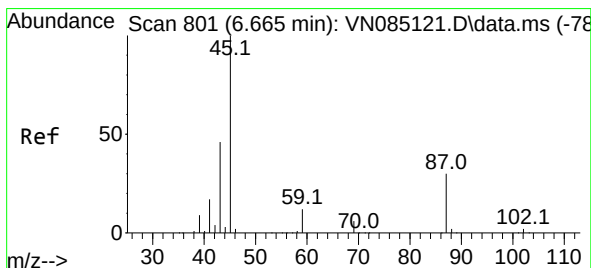
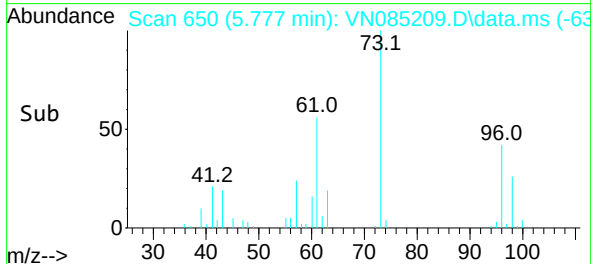
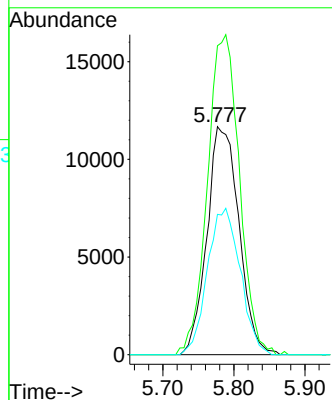
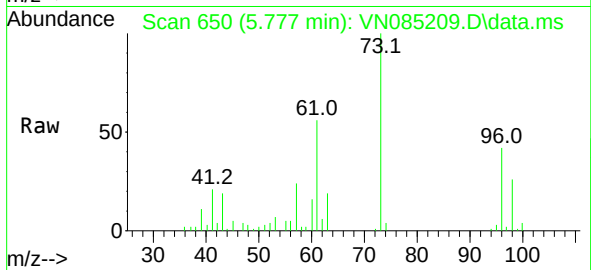




#19
trans-1,2-Dichloroethene
Concen: 19.353 ug/l
RT: 5.777 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

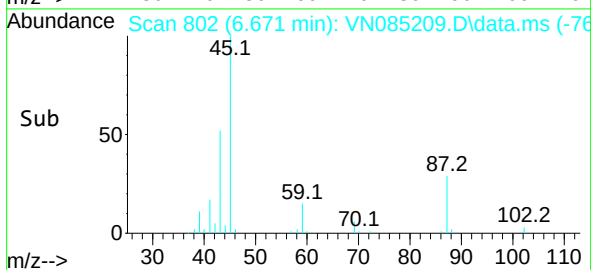
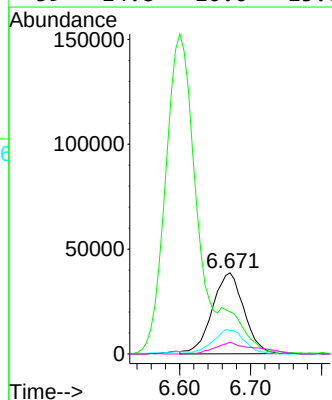
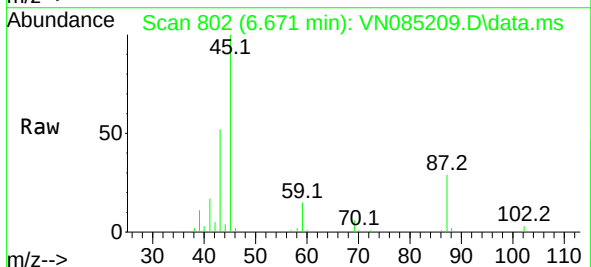
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

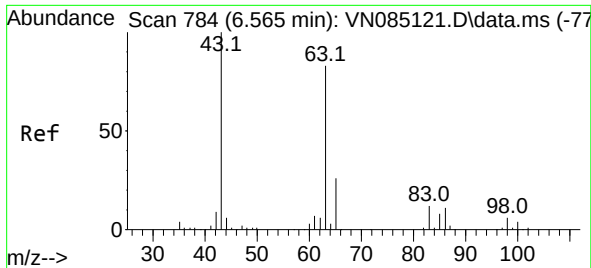
Tgt Ion: 96 Resp: 36574
Ion Ratio Lower Upper
96 100
61 135.5 100.4 150.6
98 61.5 52.6 79.0



#20
Diisopropyl ether
Concen: 20.841 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 45 Resp: 118990
Ion Ratio Lower Upper
45 100
43 49.4 41.9 62.9
87 29.3 24.1 36.1
59 14.8 10.0 15.0

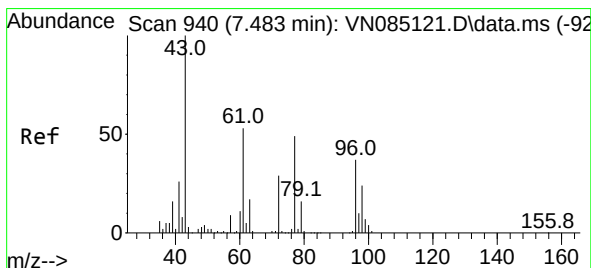
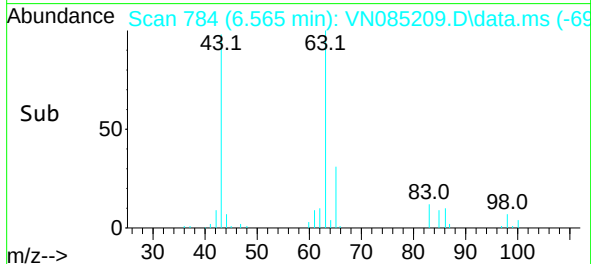
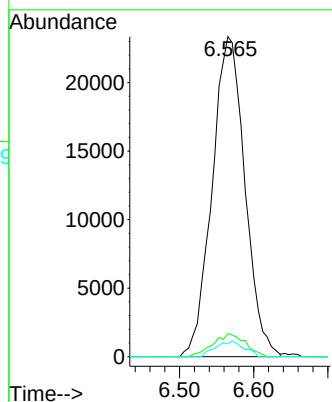
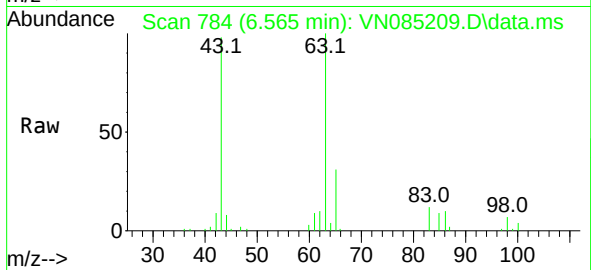




#21
1,1-Dichloroethane
Concen: 20.339 ug/l
RT: 6.565 min Scan# 716
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

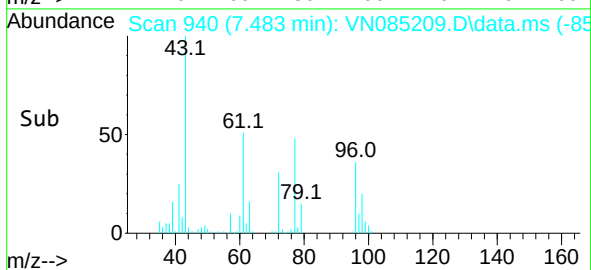
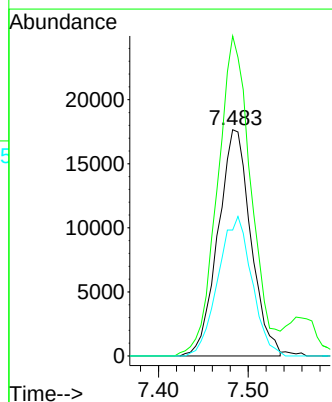
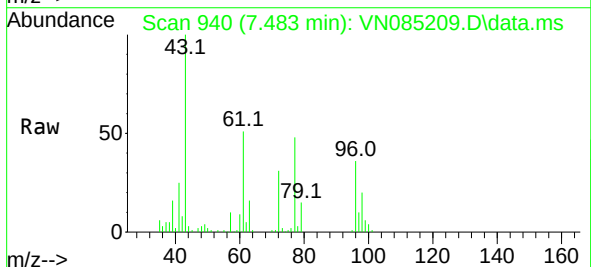
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

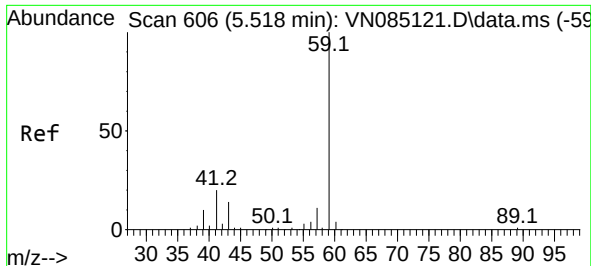
Tgt Ion: 63 Resp: 71674
Ion Ratio Lower Upper
63 100
98 7.2 3.5 10.4
100 4.0 1.6 4.8



#22
cis-1,2-Dichloroethene
Concen: 20.587 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 96 Resp: 44718
Ion Ratio Lower Upper
96 100
61 143.9 115.9 173.9
98 63.4 51.8 77.8

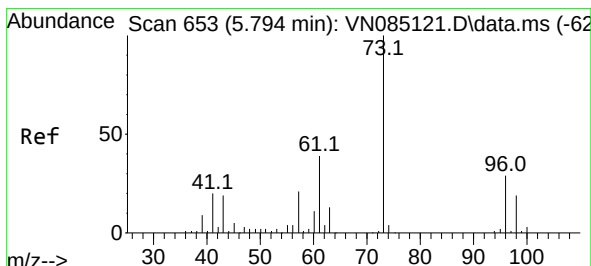
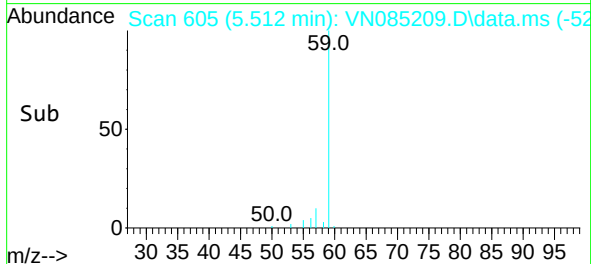
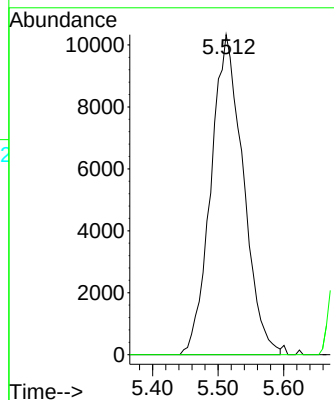
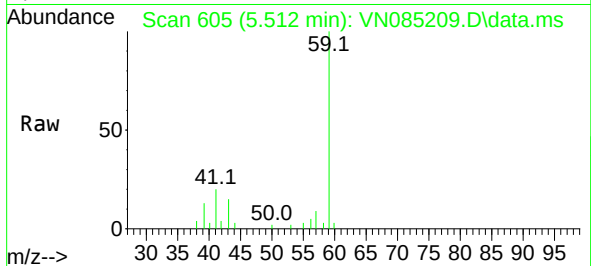




#23
tert-Butyl Alcohol
Concen: 110.664 ug/l
RT: 5.512 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

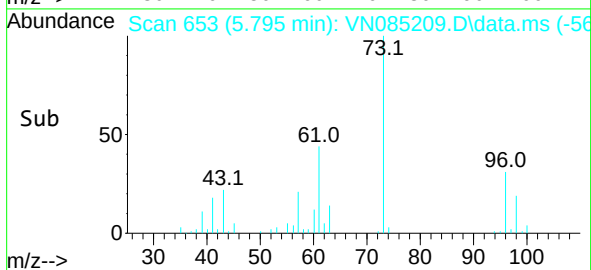
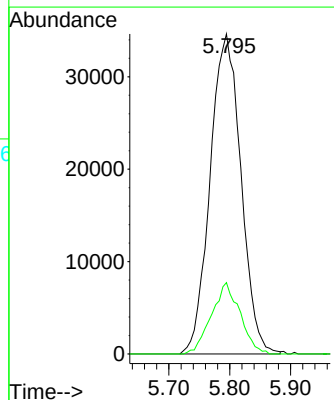
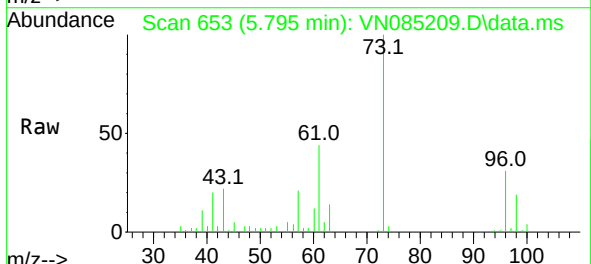
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

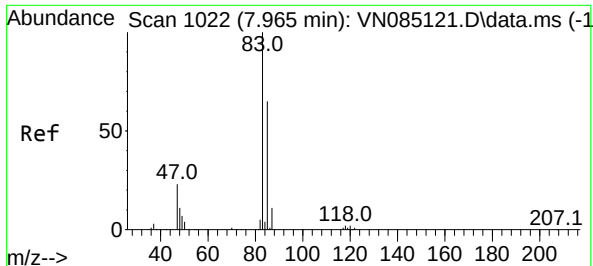
Tgt Ion: 59 Resp: 35358
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 21.432 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 73 Resp: 121741
Ion Ratio Lower Upper
73 100
43 20.7 8.7 13.1#





#25

Chloroform

Concen: 20.218 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

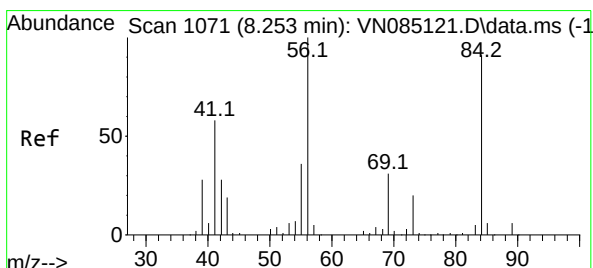
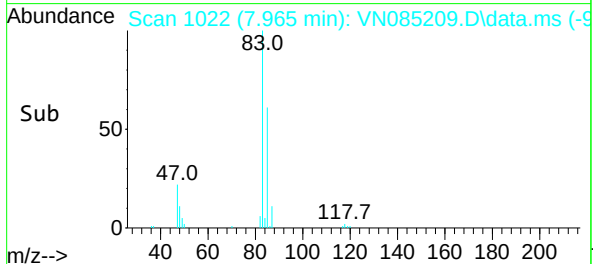
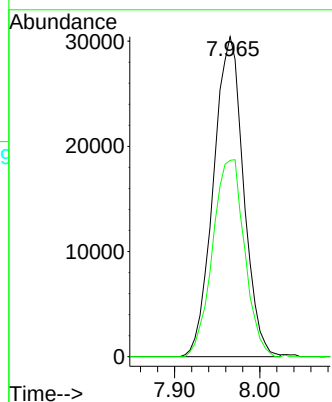
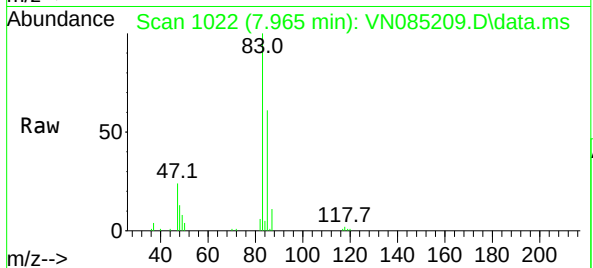
VN1216WBSD01

Tgt Ion: 83 Resp: 74641

Ion Ratio Lower Upper

83 100

85 61.4 49.4 74.0



#26

Cyclohexane

Concen: 19.610 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

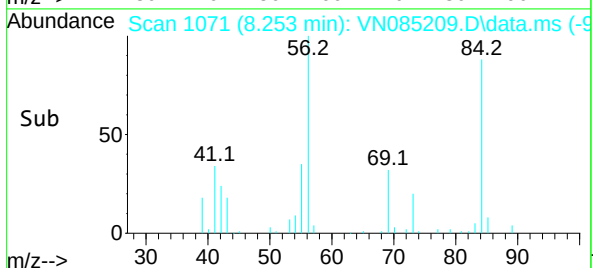
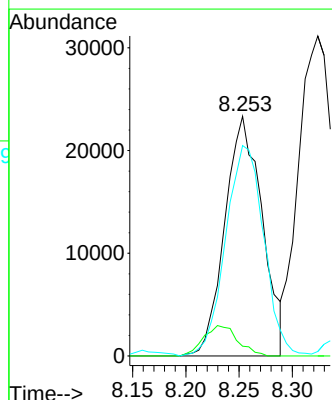
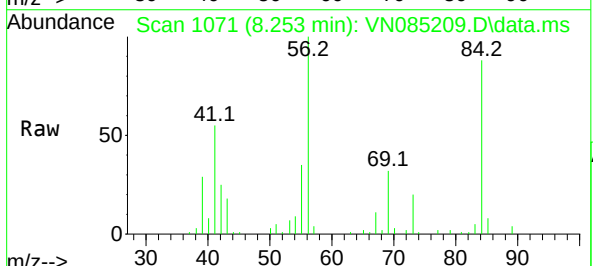
Tgt Ion: 56 Resp: 56899

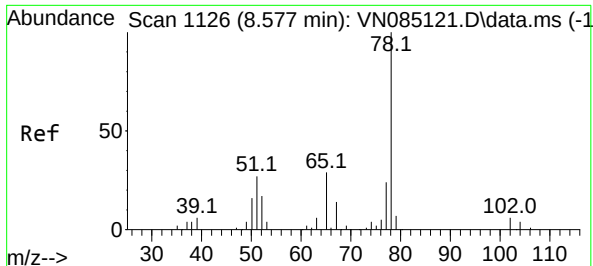
Ion Ratio Lower Upper

56 100

89 11.6 19.5 29.3#

84 89.9 70.6 105.8

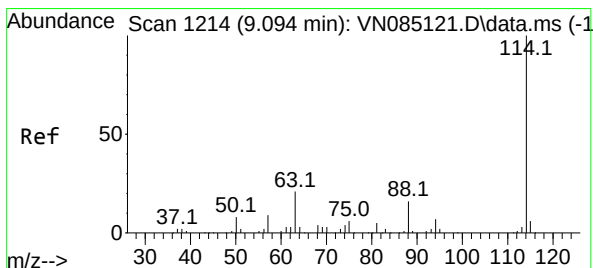
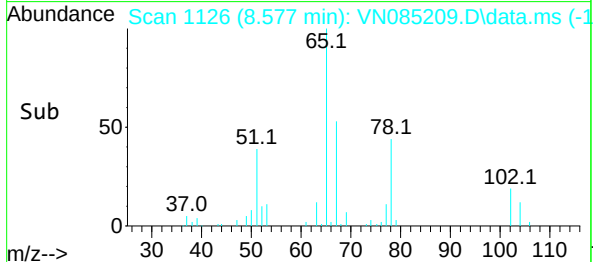
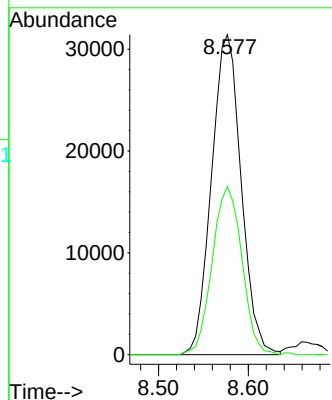
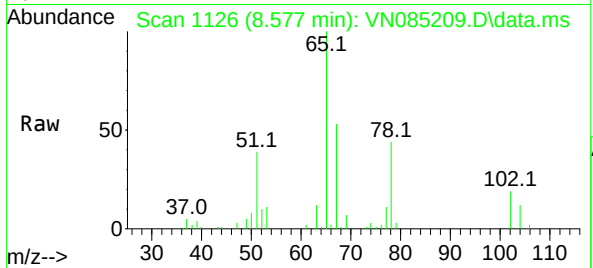




#27
1,2-Dichloroethane-d4
Concen: 30.408 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

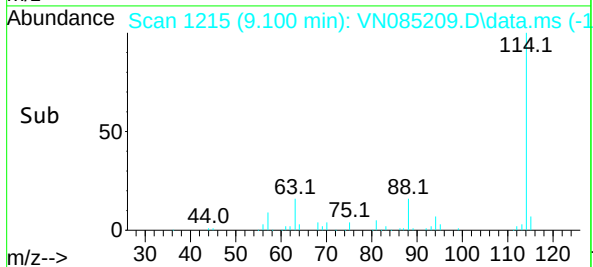
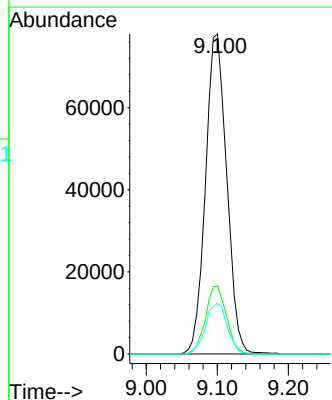
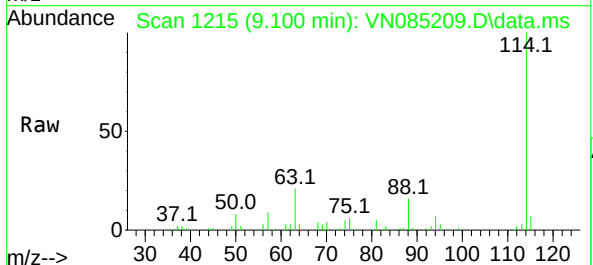
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

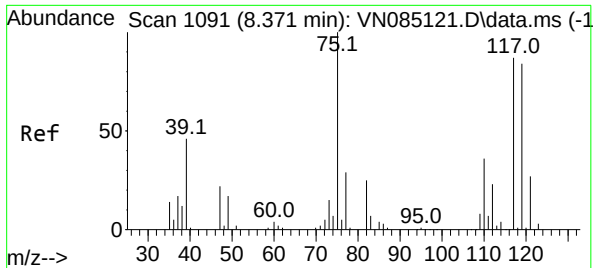
Tgt Ion: 65 Resp: 72034
Ion Ratio Lower Upper
65 100
67 52.5 39.9 59.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 114 Resp: 161867
Ion Ratio Lower Upper
114 100
63 21.0 16.2 24.2
88 16.2 12.5 18.7

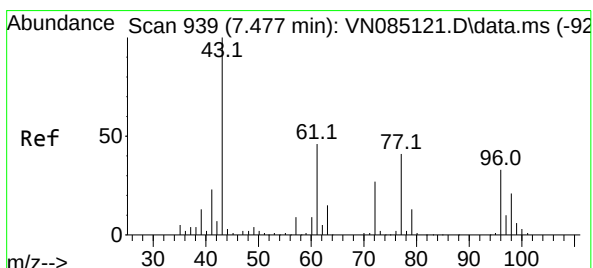
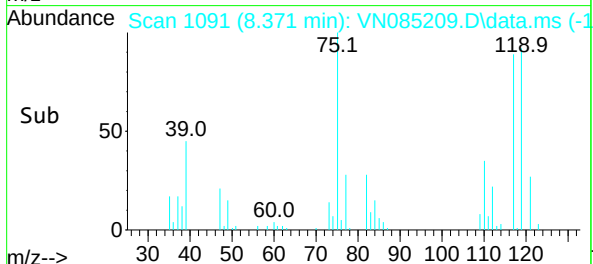
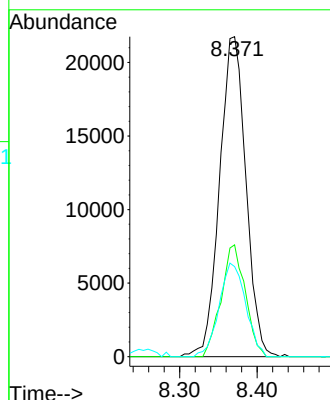
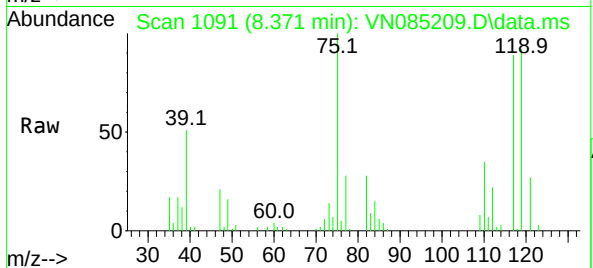




#29
1,1-Dichloropropene
Concen: 19.659 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

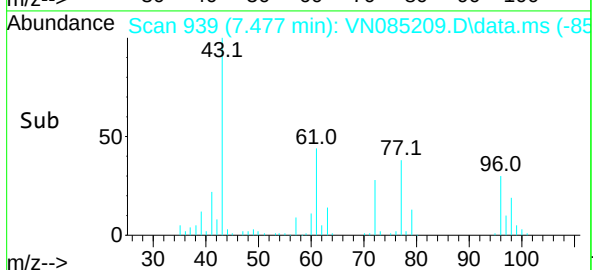
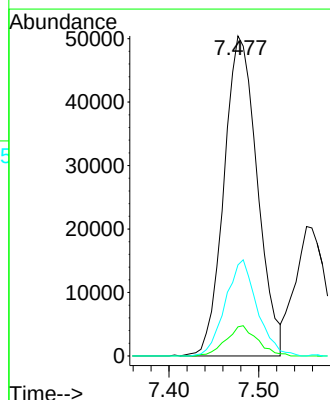
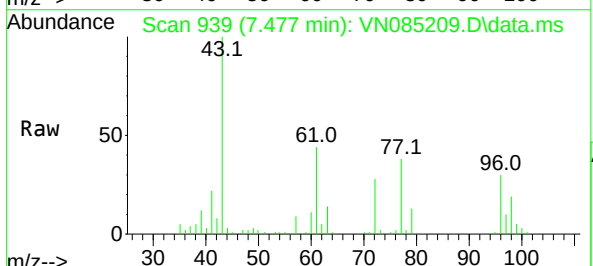
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

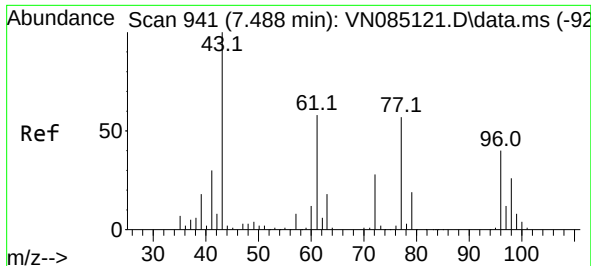
Tgt Ion:	75	Resp:	51348
Ion	Ratio	Lower	Upper
75	100		
110	32.1	0.0	71.6
77	29.5	0.0	62.2



#30
2-Butanone
Concen: 108.562 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:	43	Resp:	130125
Ion	Ratio	Lower	Upper
43	100		
57	8.9	6.9	10.3
72	28.6	21.8	32.8

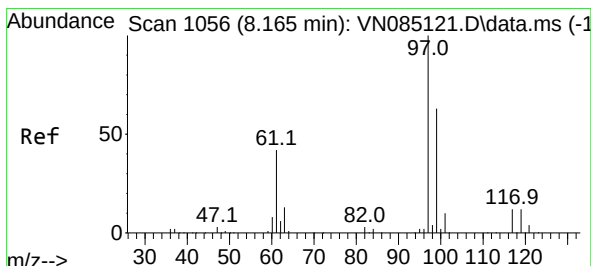
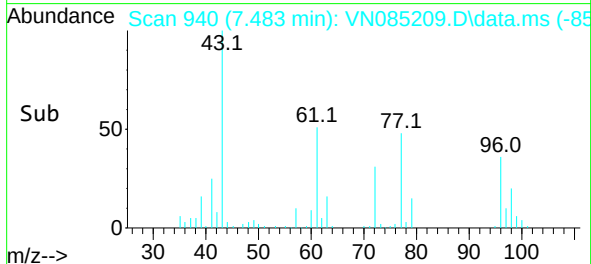
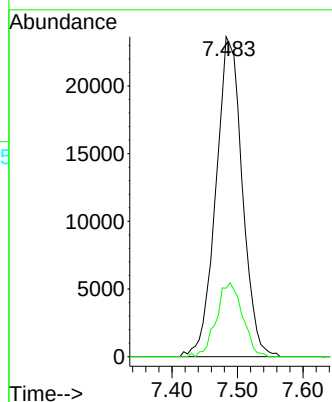
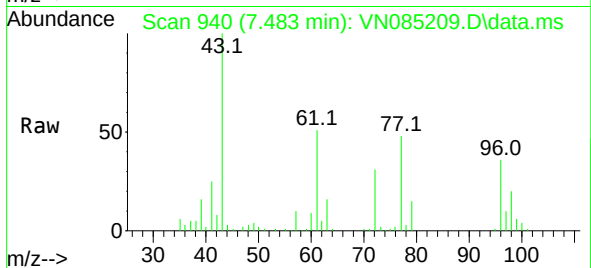




#31
2,2-Dichloropropane
Concen: 19.694 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

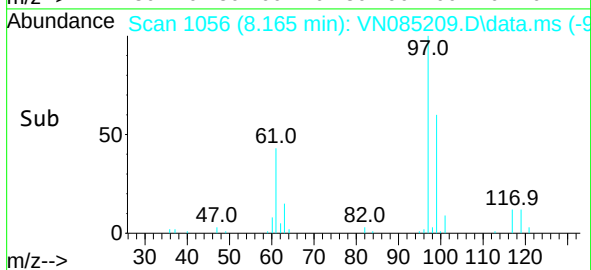
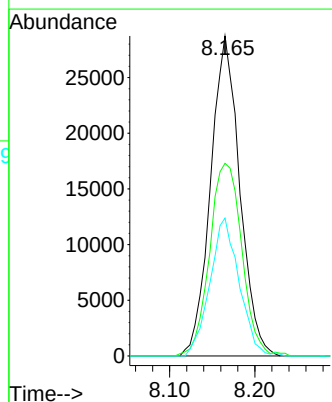
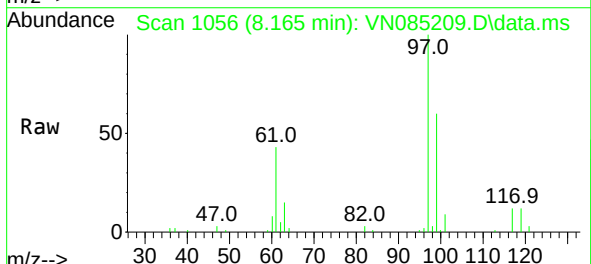
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

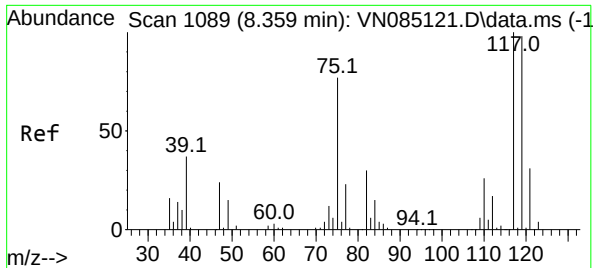
Tgt Ion: 77 Resp: 65963
Ion Ratio Lower Upper
77 100
97 22.8 0.0 0.0#



#32
1,1,1-Trichloroethane
Concen: 19.342 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 97 Resp: 68382
Ion Ratio Lower Upper
97 100
99 66.0 50.8 76.2
61 43.0 32.7 49.1

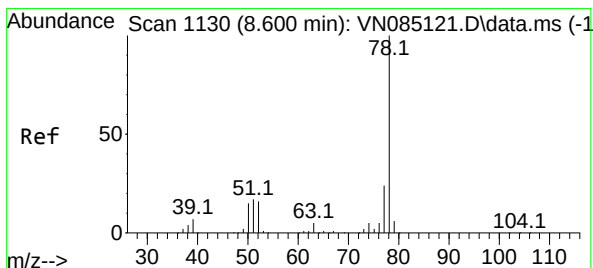
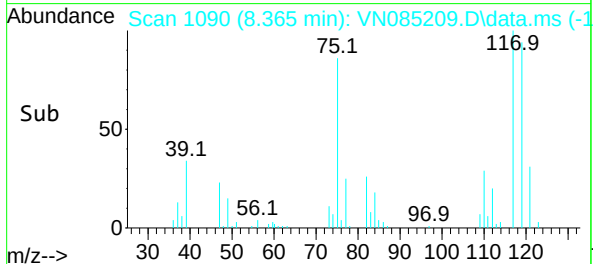
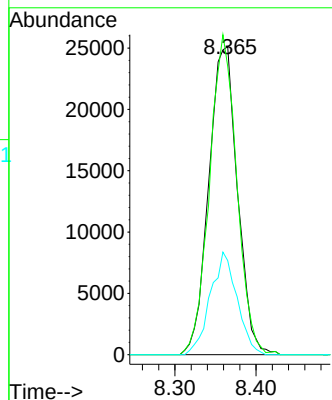
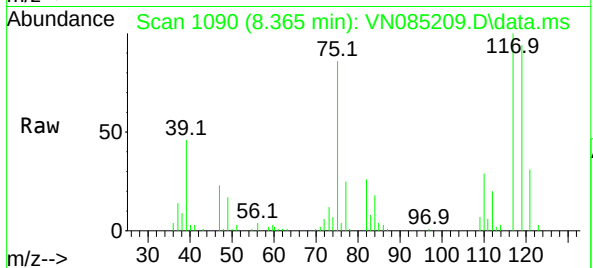




#33
Carbon Tetrachloride
Concen: 19.398 ug/l
RT: 8.365 min Scan# 1089
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

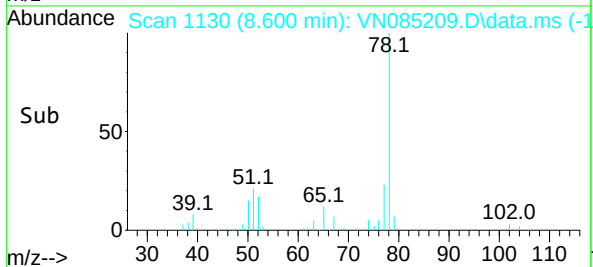
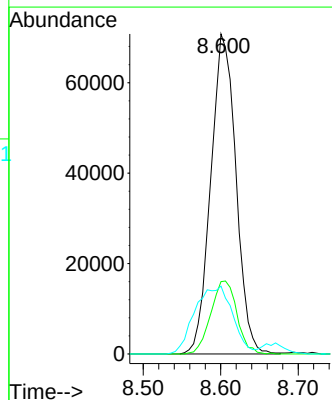
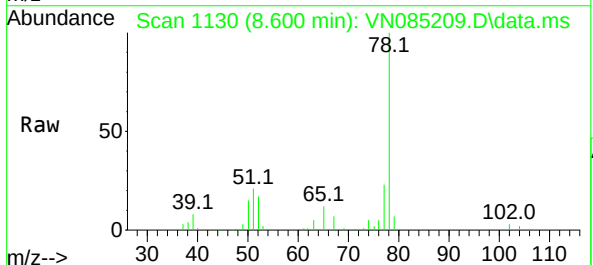
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

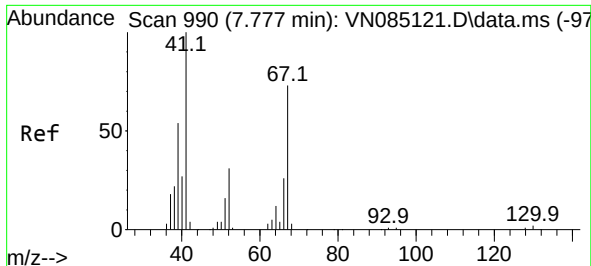
Tgt Ion:	117	Resp:	61882
Ion	Ratio	Lower	Upper
117	100		
119	93.6	81.6	122.4
121	30.6	26.5	39.7



#34
Benzene
Concen: 19.479 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:	78	Resp:	159828
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.0	27.0
51	18.8	12.4	18.6#

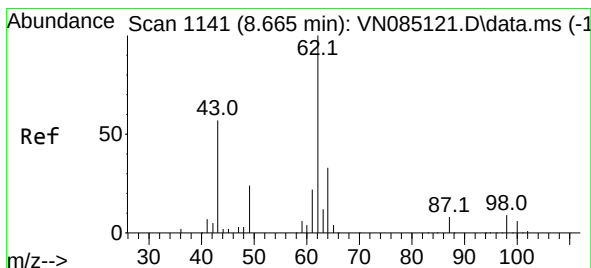
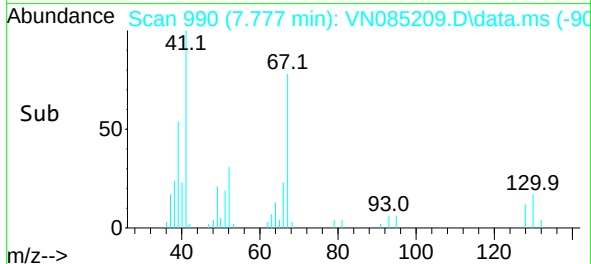
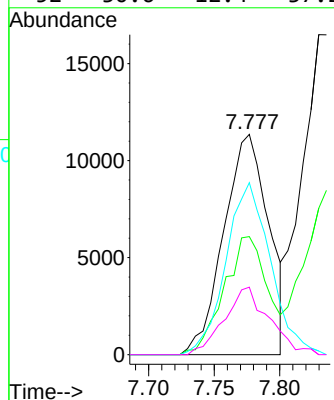
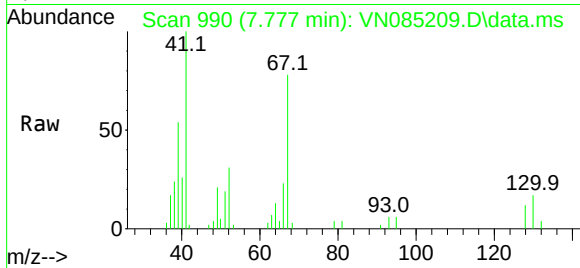




#35
Methacrylonitrile
Concen: 20.039 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

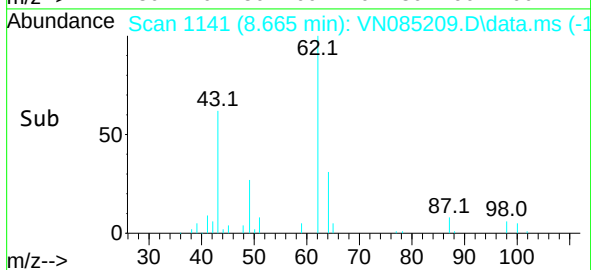
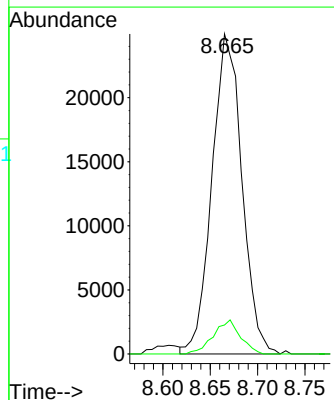
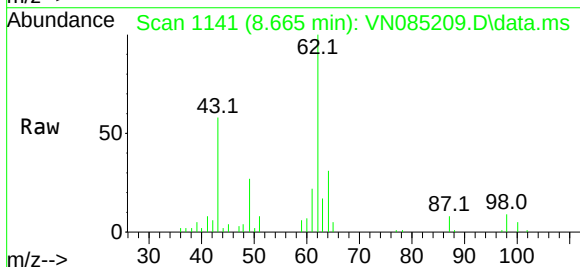
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

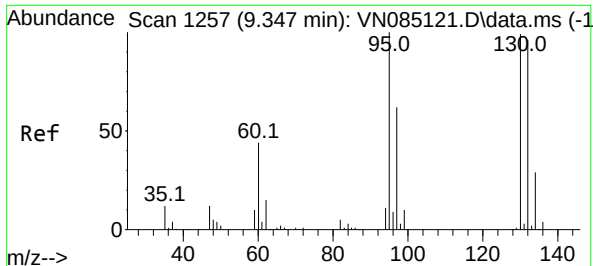
Tgt Ion:	41	Resp:	27030
Ion	Ratio	Lower	Upper
41	100		
39	53.6	24.4	73.2
67	78.1	37.0	110.9
52	30.6	12.4	37.2



#36
1,2-Dichloroethane
Concen: 19.646 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:	62	Resp:	54876
Ion	Ratio	Lower	Upper
62	100		
98	9.6	7.3	10.9





#37

Trichloroethene

Concen: 19.498 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

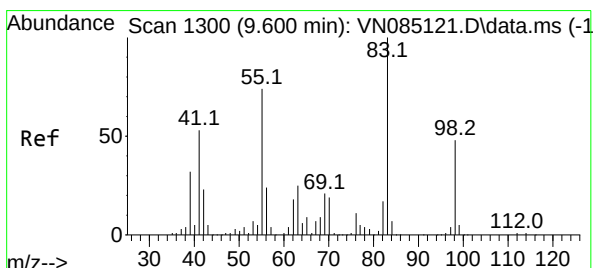
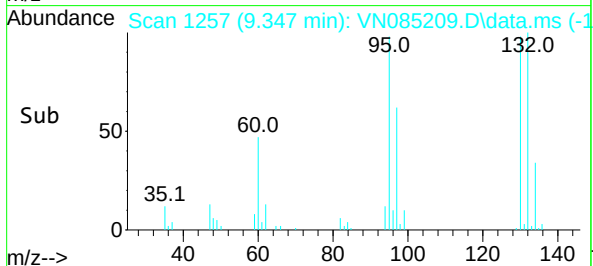
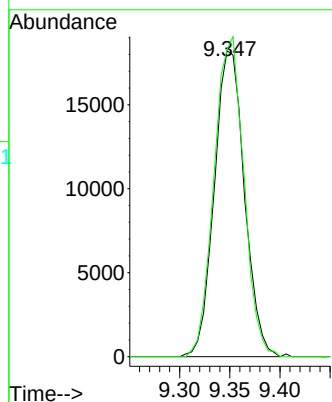
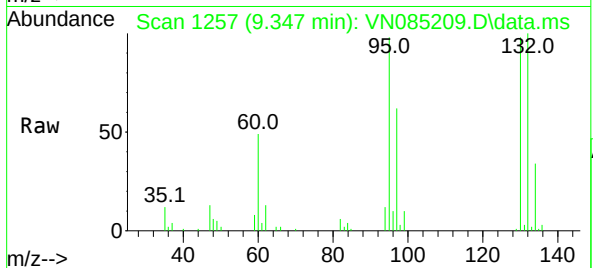
VN1216WBSD01

Tgt Ion:130 Resp: 38098

Ion Ratio Lower Upper

130 100

95 100.4 76.2 114.4



#38

Methylcyclohexane

Concen: 18.974 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

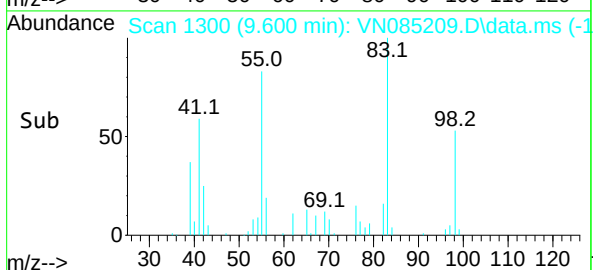
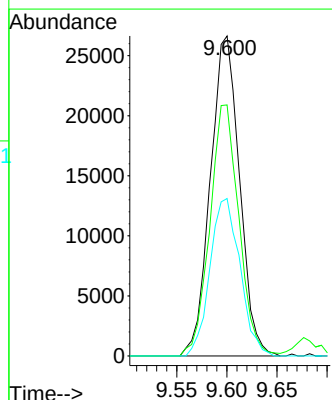
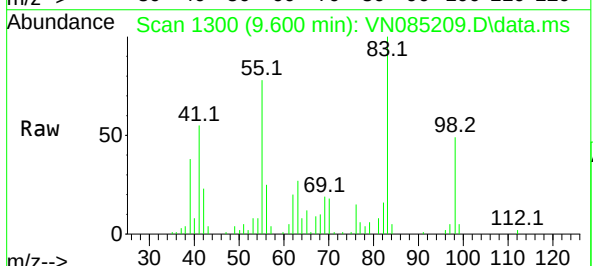
Tgt Ion: 83 Resp: 53887

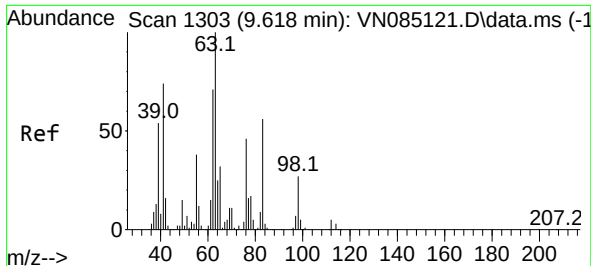
Ion Ratio Lower Upper

83 100

55 78.1 41.4 124.4

98 50.6 25.7 77.1

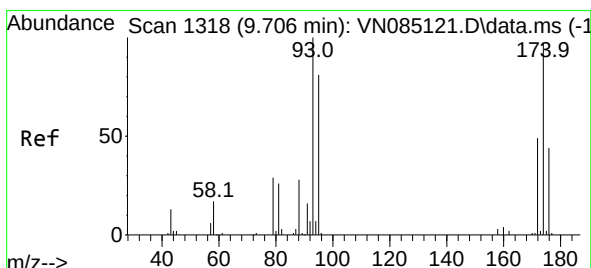
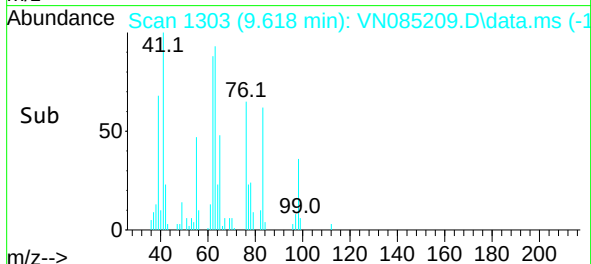
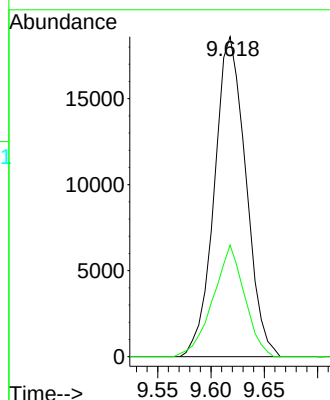
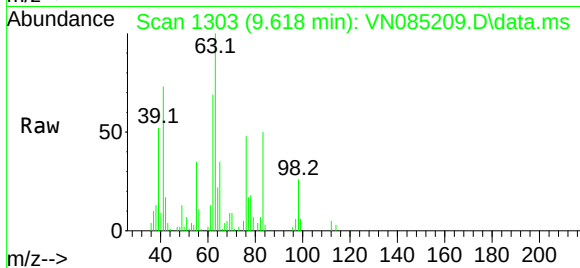




#39
1,2-Dichloropropane
Concen: 19.203 ug/l
RT: 9.618 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

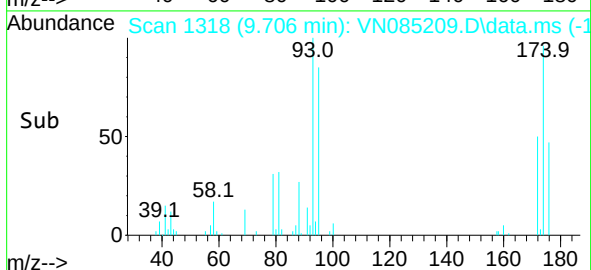
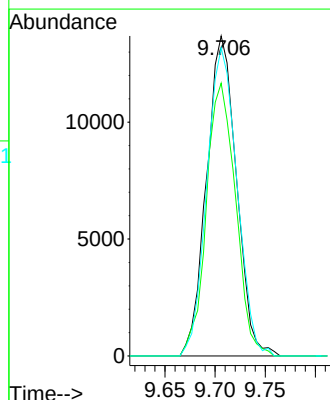
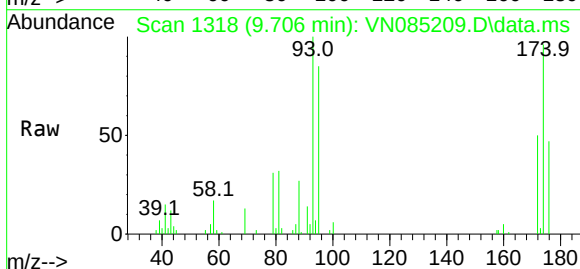
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

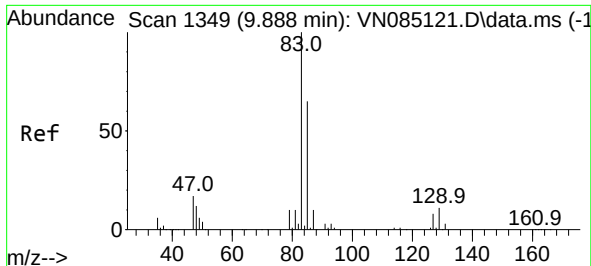
Tgt Ion: 63 Resp: 38165
Ion Ratio Lower Upper
63 100
65 34.9 23.4 35.0



#40
Dibromomethane
Concen: 19.966 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 93 Resp: 28463
Ion Ratio Lower Upper
93 100
95 83.3 0.0 169.4
174 97.0 0.0 189.8

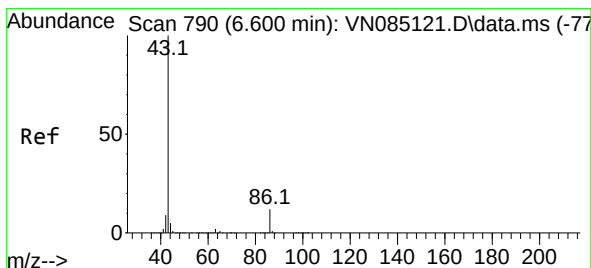
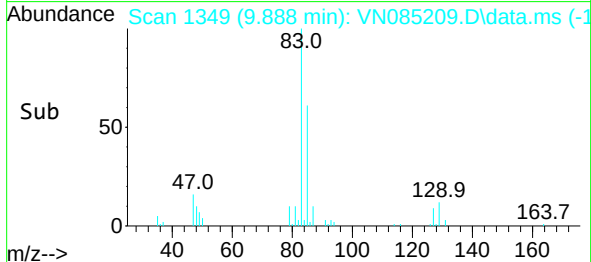
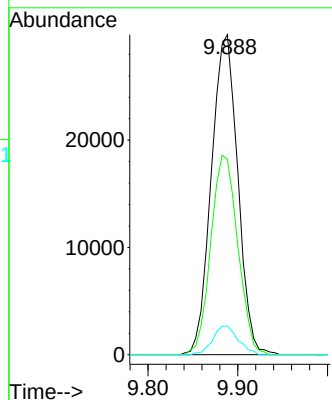
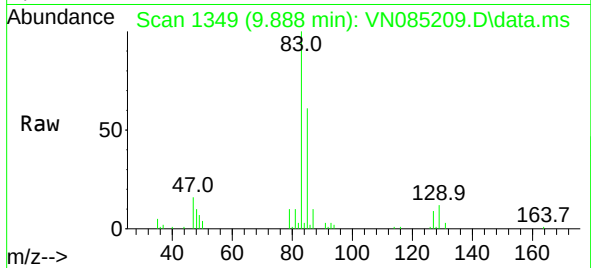




#41
Bromodichloromethane
Concen: 20.024 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

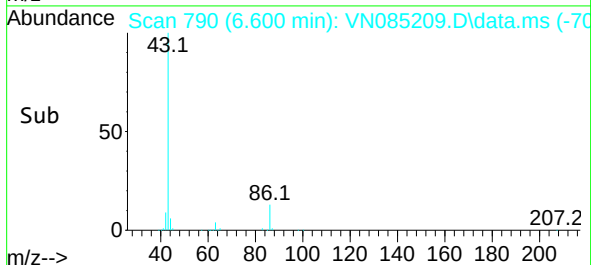
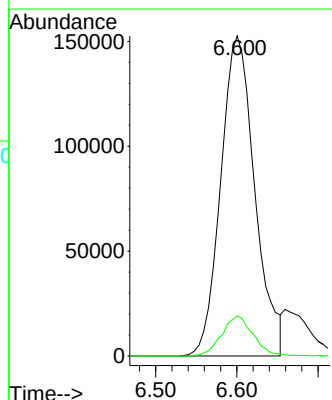
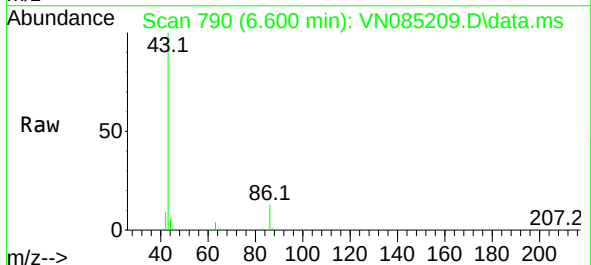
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

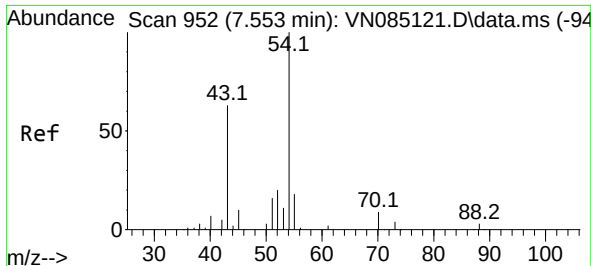
Tgt Ion: 83 Resp: 61025
Ion Ratio Lower Upper
83 100
85 61.1 54.6 81.8
127 9.0 7.0 10.6



#42
Vinyl Acetate
Concen: 106.188 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 43 Resp: 445381
Ion Ratio Lower Upper
43 100
86 11.5 9.2 13.8

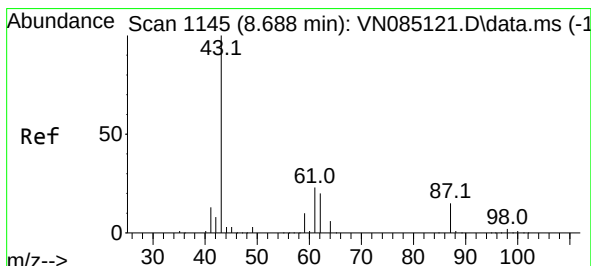
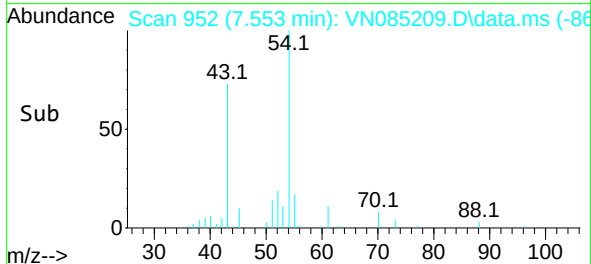
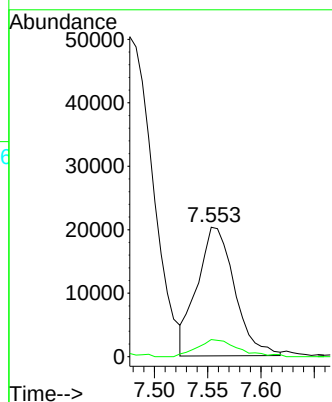
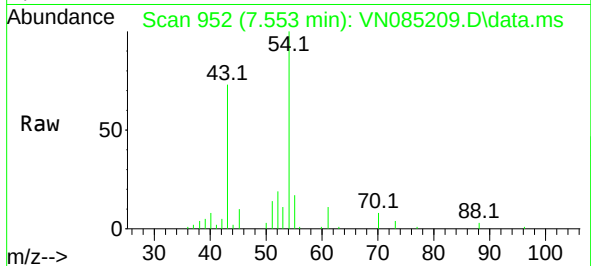




#43
Ethyl Acetate
Concen: 20.734 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

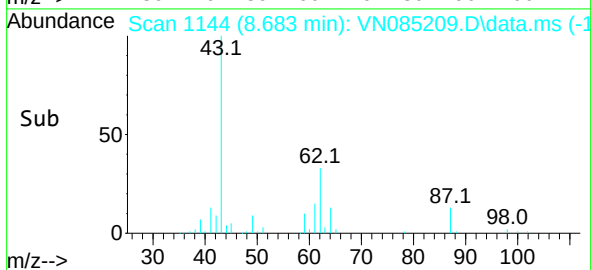
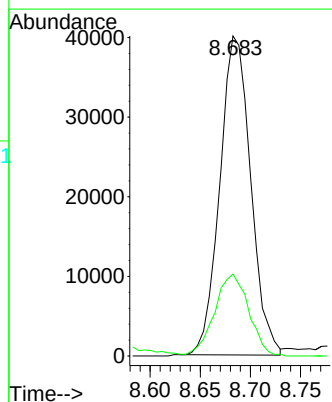
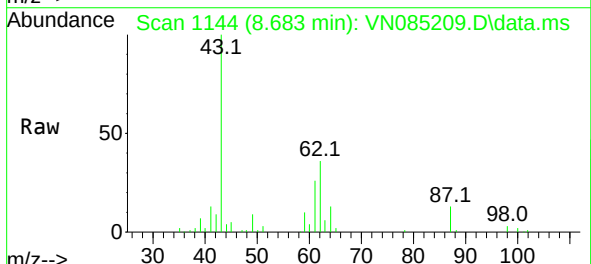
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

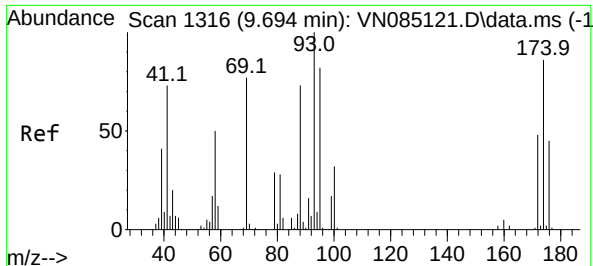
Tgt Ion: 43 Resp: 49449
Ion Ratio Lower Upper
43 100
45 13.2 13.3 19.9#



#44
Isopropyl Acetate
Concen: 20.685 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 43 Resp: 85730
Ion Ratio Lower Upper
43 100
61 28.4 21.5 32.3

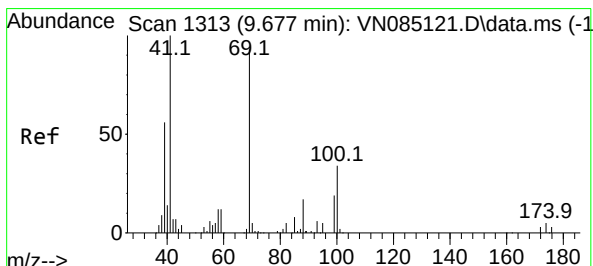
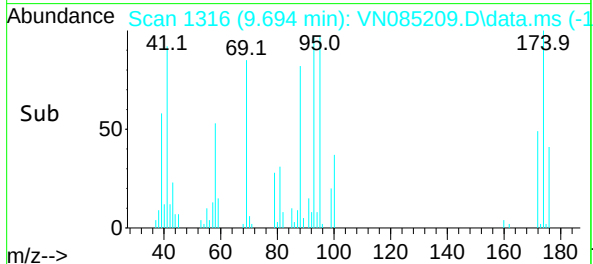
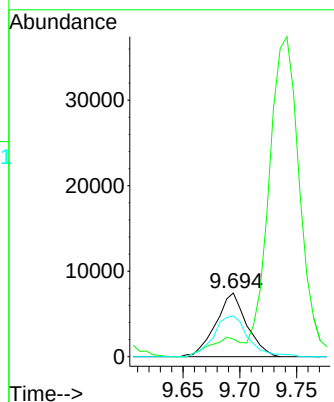
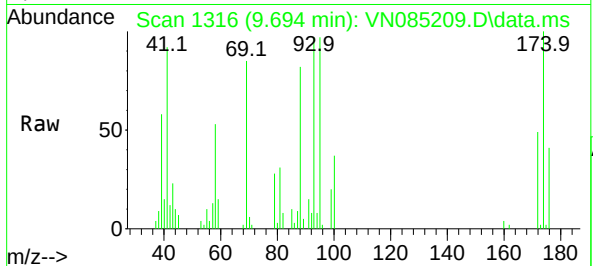




#45
1,4-Dioxane
Concen: 407.451 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

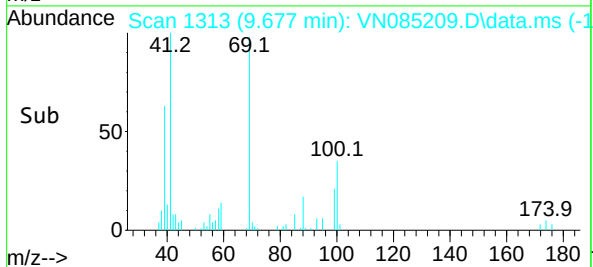
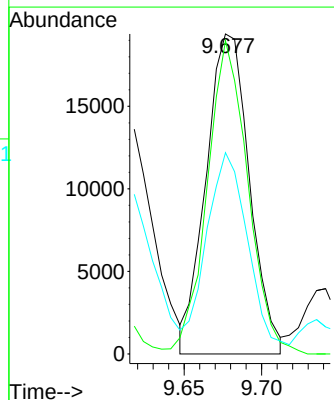
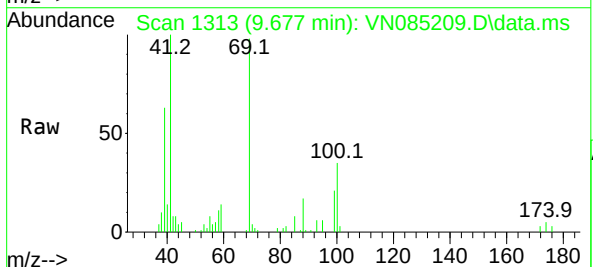
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

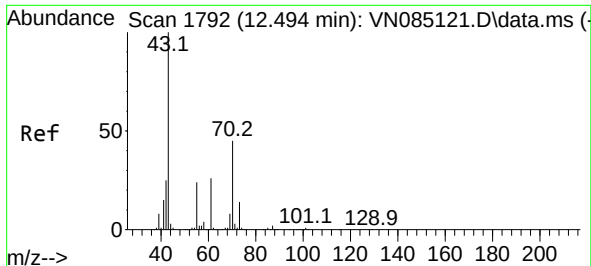
Tgt Ion: 88 Resp: 14082
Ion Ratio Lower Upper
88 100
43 32.9 21.7 32.5#
58 71.5 52.6 79.0



#46
Methyl methacrylate
Concen: 19.915 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

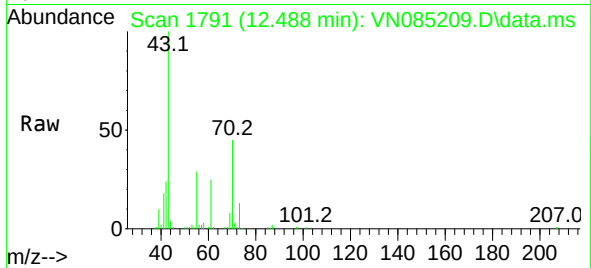
Tgt Ion: 41 Resp: 37774
Ion Ratio Lower Upper
41 100
69 99.4 46.7 140.0
39 62.0 28.5 85.5



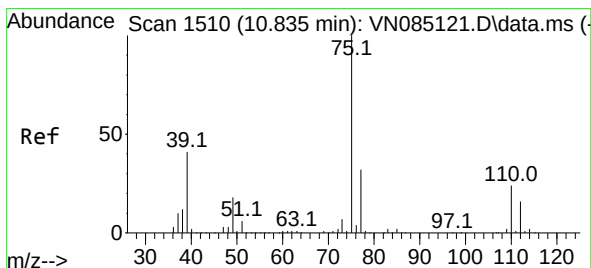
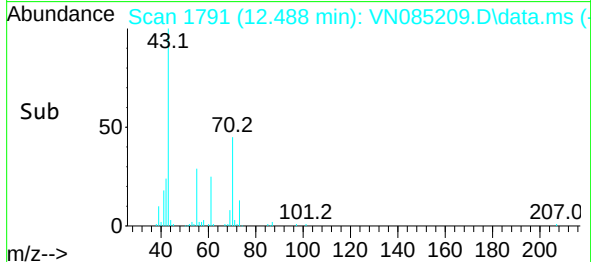
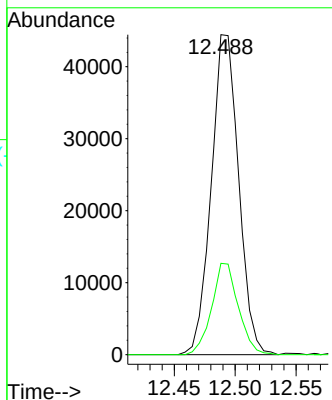


#47
n-amyl acetate
Concen: 19.945 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

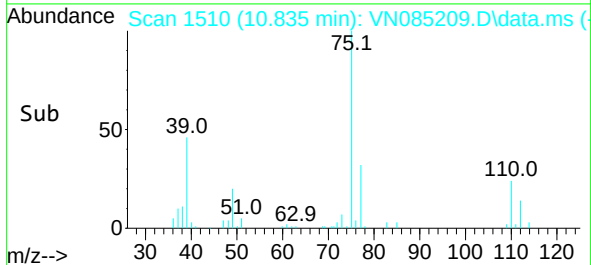
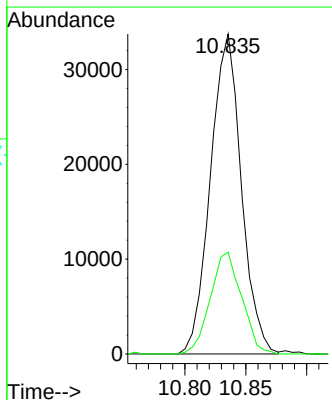
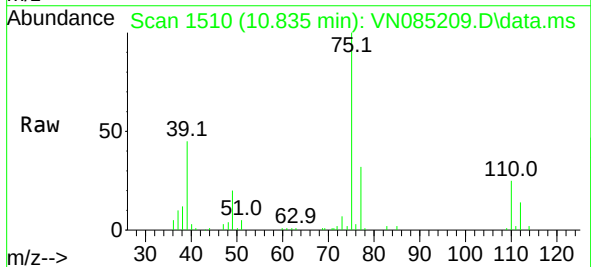


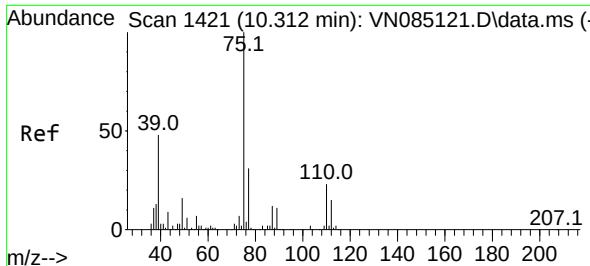
Tgt Ion: 43 Resp: 69551
Ion Ratio Lower Upper
43 100
55 27.8 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 19.884 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 75 Resp: 59485
Ion Ratio Lower Upper
75 100
77 31.8 25.5 38.3

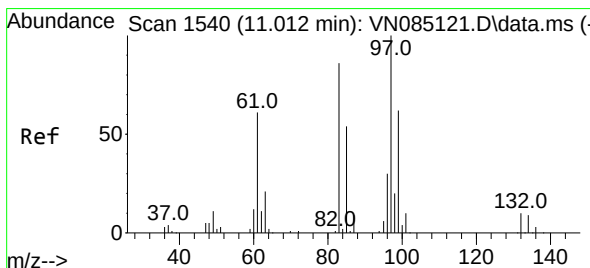
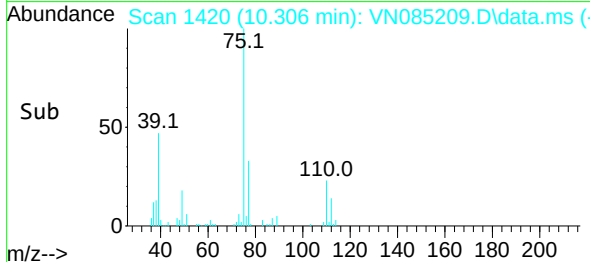
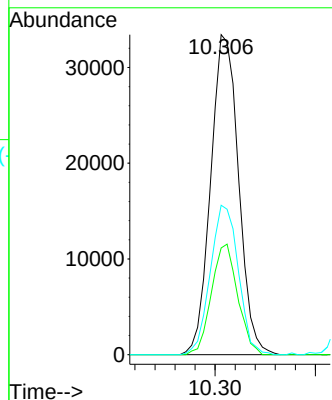
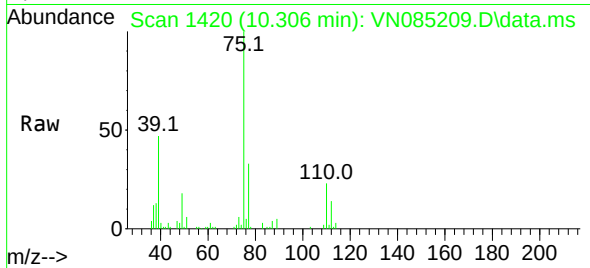




#49
cis-1,3-Dichloropropene
Concen: 19.833 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

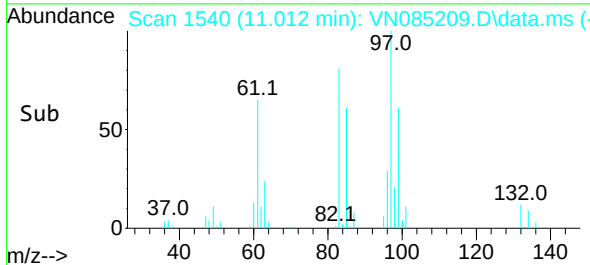
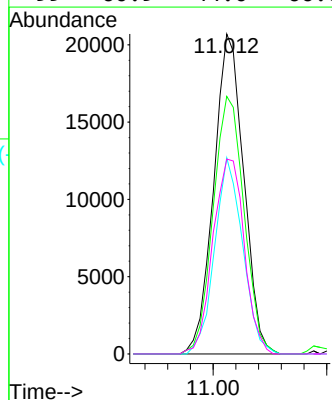
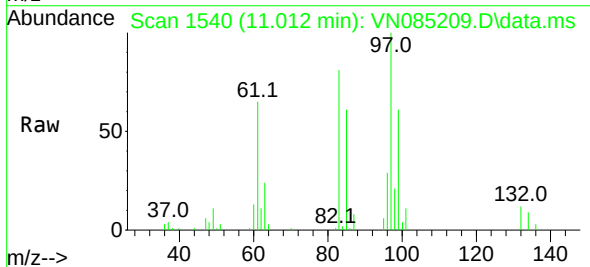
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

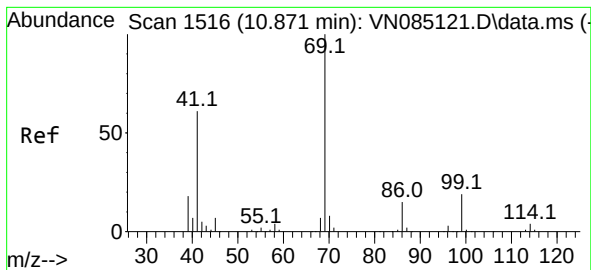
Tgt Ion: 75	Resp: 64591
Ion Ratio	Lower Upper
75 100	
77 33.4	23.8 35.6
39 46.7	37.3 55.9



#50
1,1,2-Trichloroethane
Concen: 19.717 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 97	Resp: 37876
Ion Ratio	Lower Upper
97 100	
83 80.5	65.8 98.8
85 61.3	40.8 61.2#
99 60.9	44.0 66.0

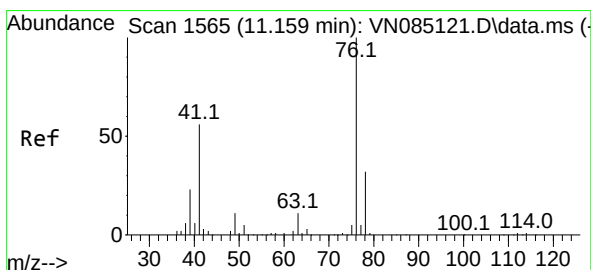
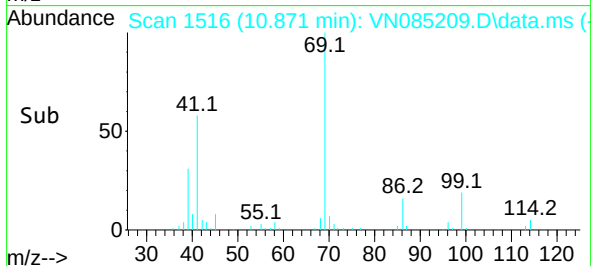
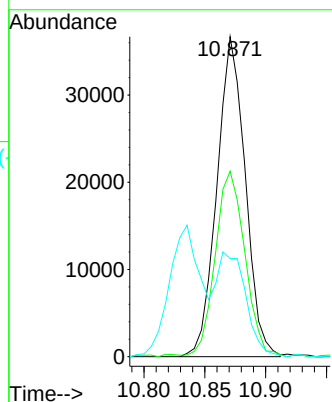
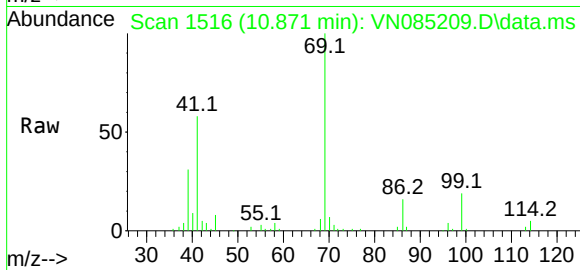




#51
Ethyl methacrylate
Concen: 20.365 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

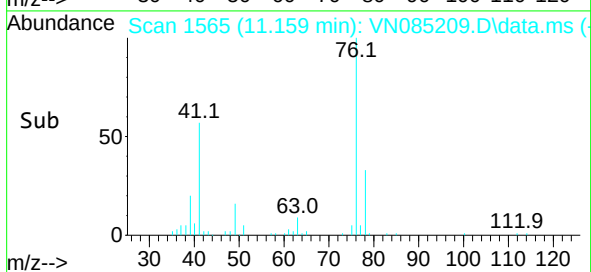
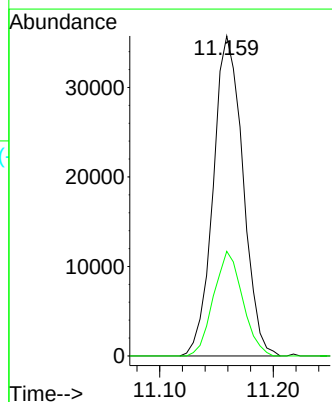
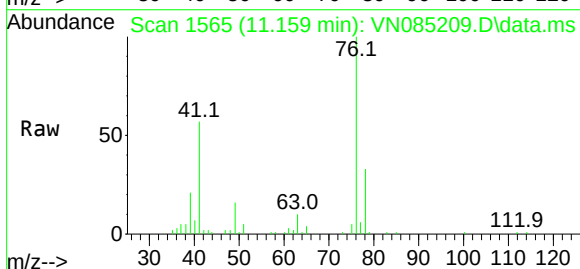
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

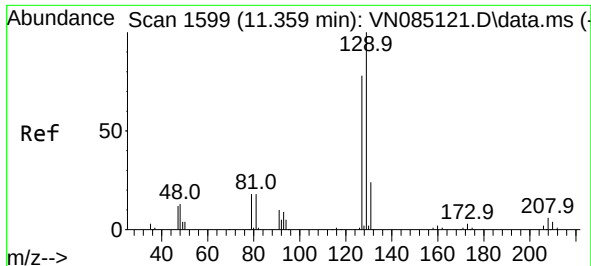
Tgt Ion: 69 Resp: 59503
Ion Ratio Lower Upper
69 100
41 57.5 32.1 96.3
39 30.2 18.8 56.4



#52
1,3-Dichloropropane
Concen: 20.232 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 76 Resp: 65044
Ion Ratio Lower Upper
76 100
78 31.9 0.0 65.6

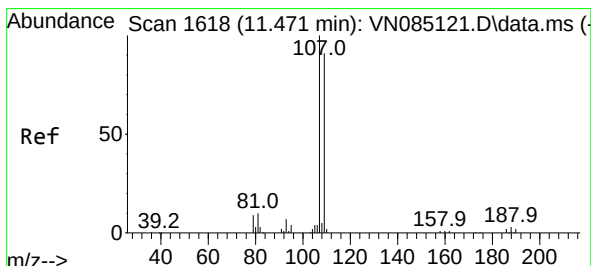
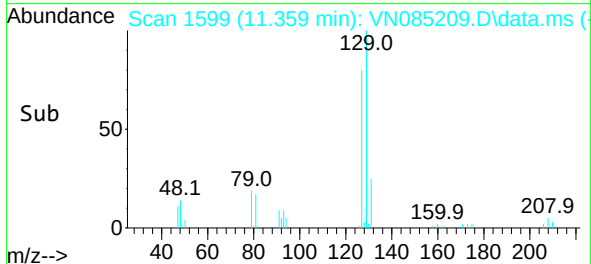
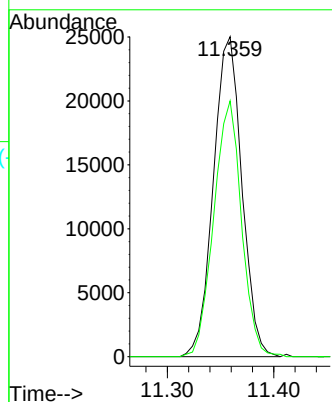
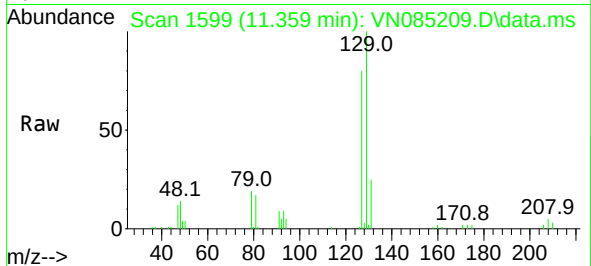




#53
Dibromochloromethane
Concen: 19.848 ug/l
RT: 11.359 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

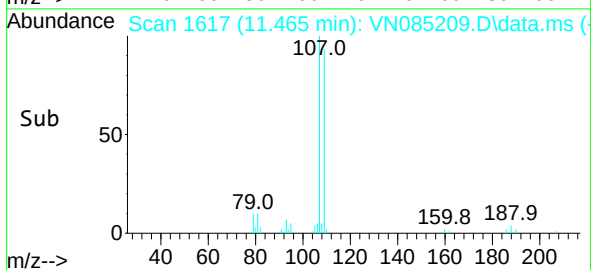
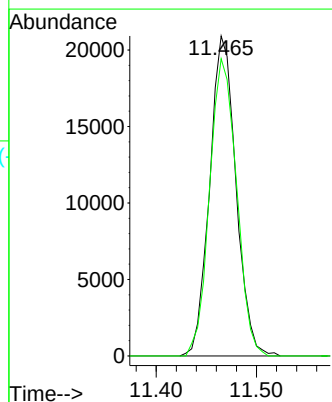
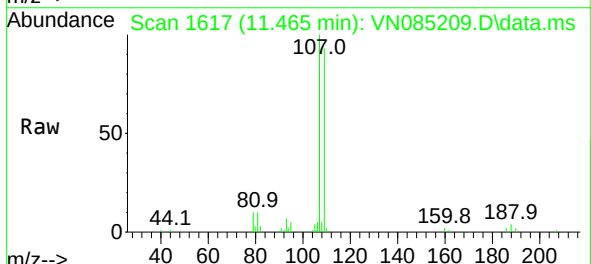
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

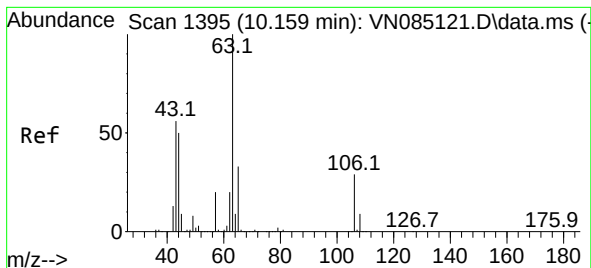
Tgt Ion:129 Resp: 46465
Ion Ratio Lower Upper
129 100
127 77.8 37.3 111.9



#54
1,2-Dibromoethane
Concen: 19.669 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:107 Resp: 38069
Ion Ratio Lower Upper
107 100
109 95.1 75.2 112.8

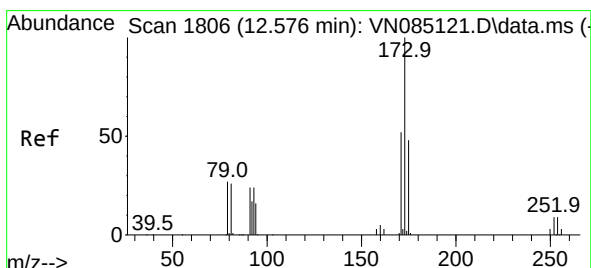
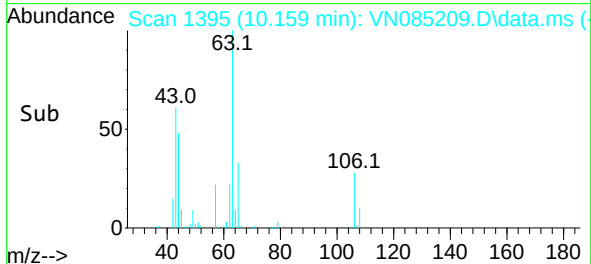
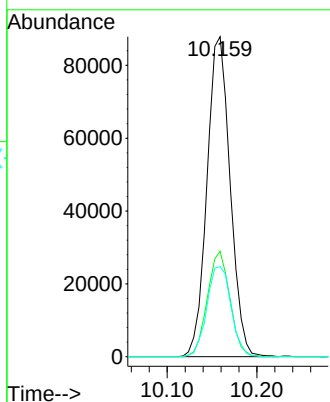
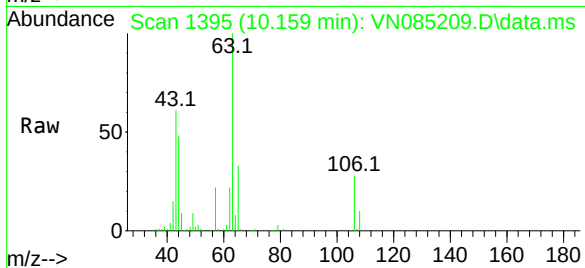




#55
2-Chloroethyl vinyl ether
Concen: 116.053 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

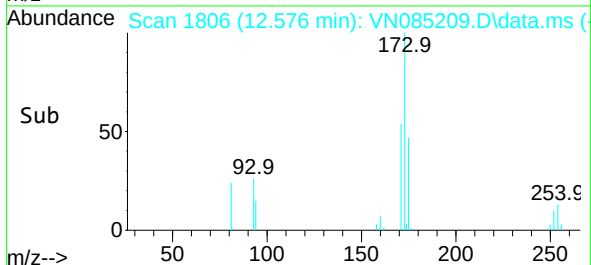
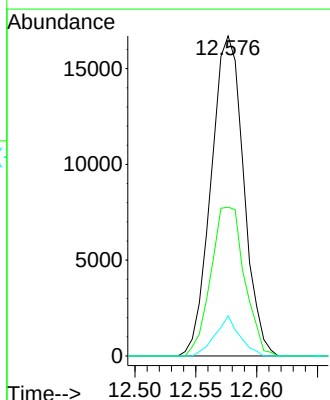
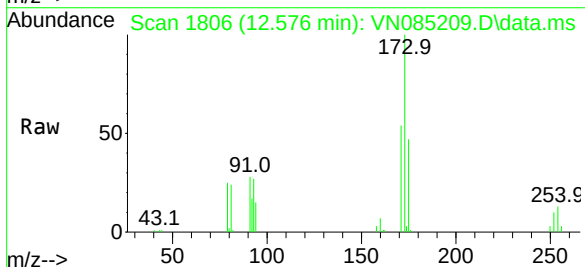
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

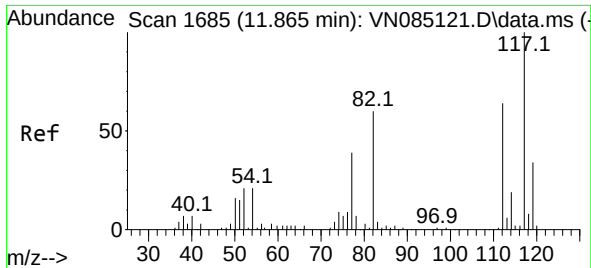
Tgt Ion: 63 Resp: 157517
Ion Ratio Lower Upper
63 100
65 32.0 25.9 38.9
106 29.3 23.5 35.3



#56
Bromoform
Concen: 19.753 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 173 Resp: 31005
Ion Ratio Lower Upper
173 100
175 48.1 40.2 60.2
254 9.4 6.2 9.4#

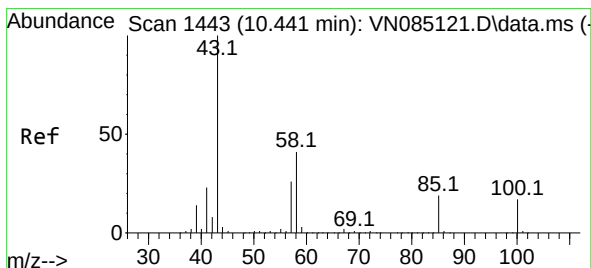
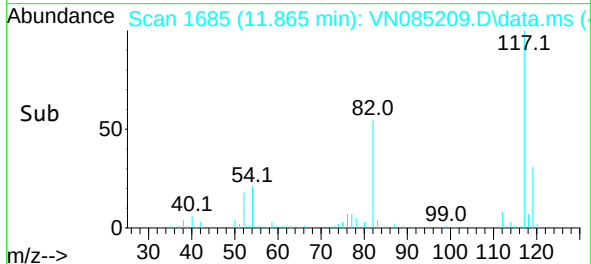
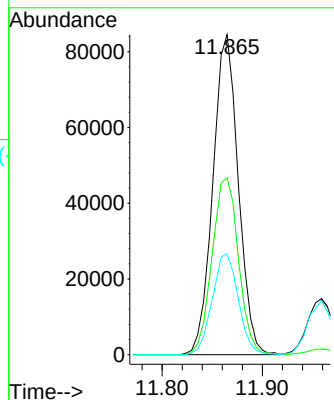
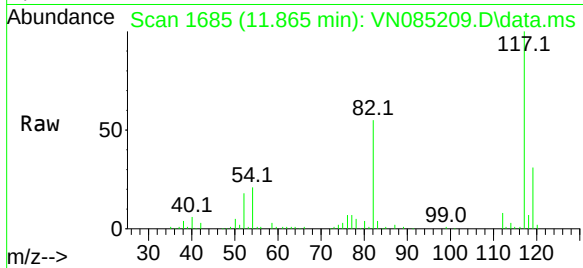




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

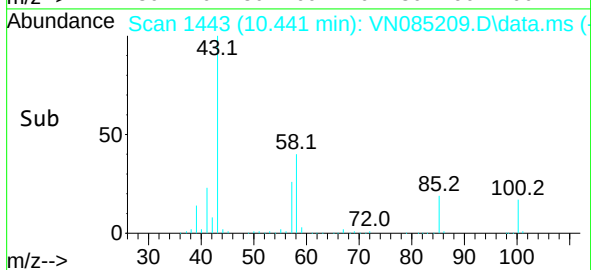
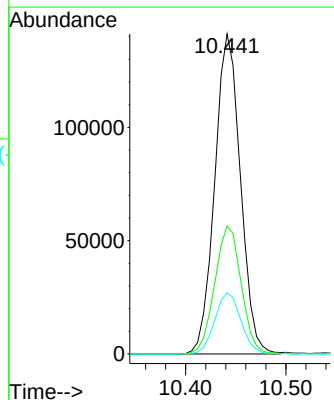
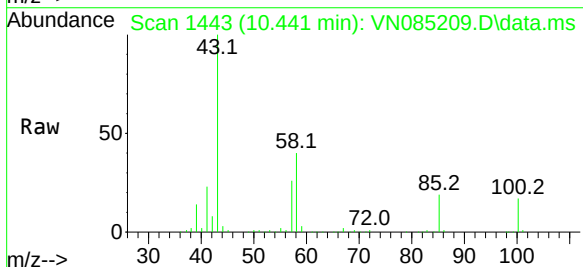
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

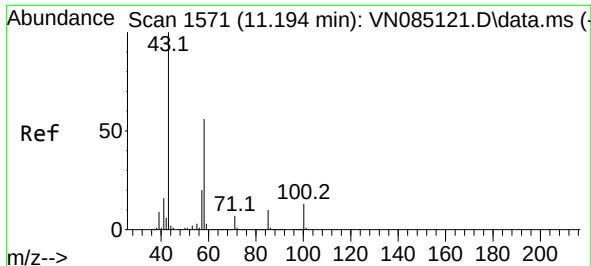
Tgt Ion:117 Resp: 148673
Ion Ratio Lower Upper
117 100
82 57.5 44.2 66.4
119 32.3 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 103.526 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 43 Resp: 251194
Ion Ratio Lower Upper
43 100
58 41.2 31.6 47.4
85 19.4 15.0 22.6

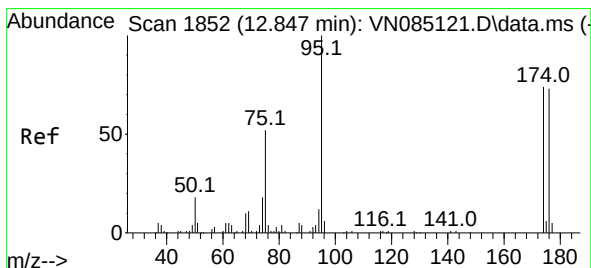
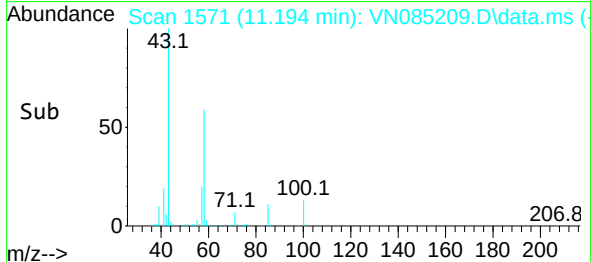
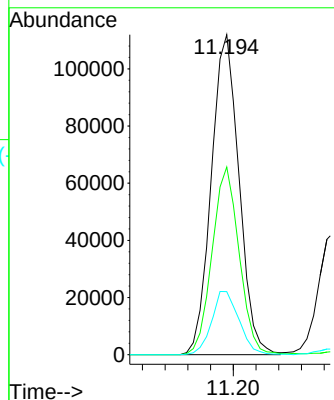
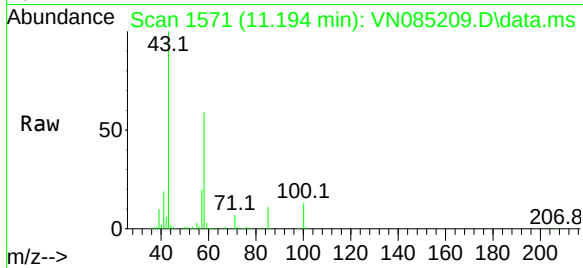




#59
2-Hexanone
Concen: 103.278 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

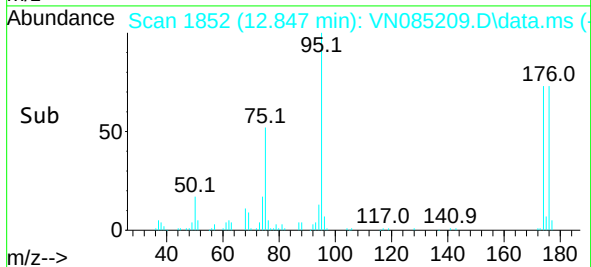
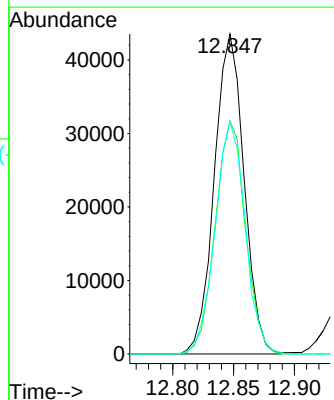
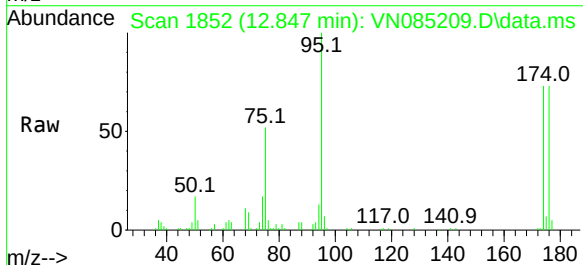
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

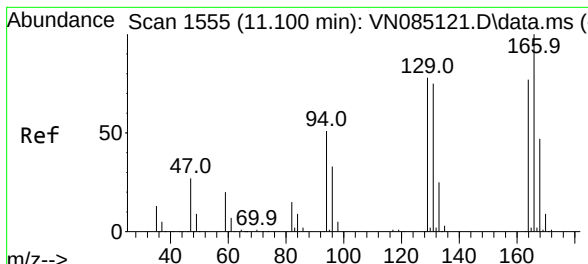
Tgt Ion: 43 Resp: 189877
Ion Ratio Lower Upper
43 100
58 57.1 43.6 65.4
57 19.6 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 30.022 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 95 Resp: 73852
Ion Ratio Lower Upper
95 100
174 74.1 60.3 90.5
176 73.5 57.4 86.0



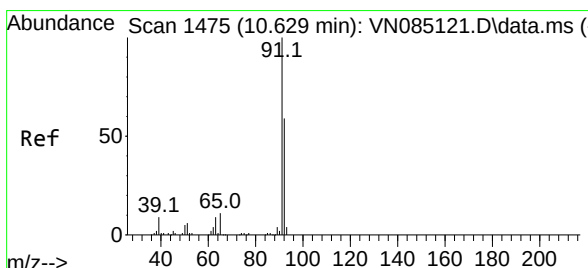
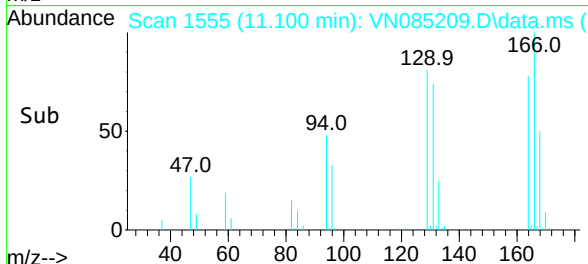
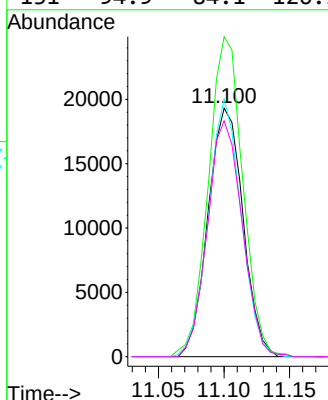
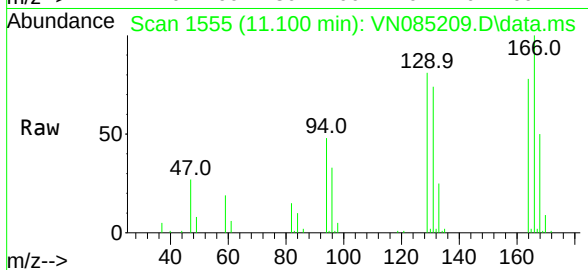


#61
Tetrachloroethene
Concen: 19.837 ug/l
RT: 11.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

Tgt Ion:164 Resp: 35715

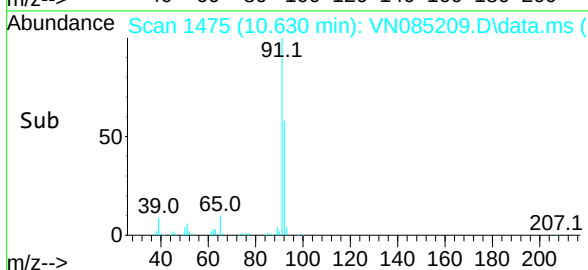
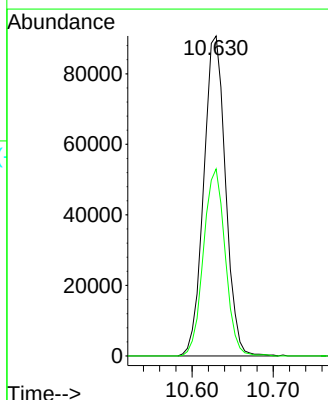
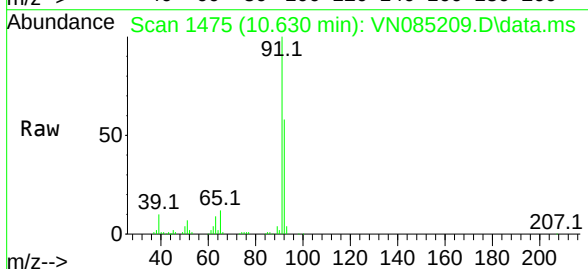
Ion	Ratio	Lower	Upper
164	100		
166	127.5	103.8	155.8
129	102.9	84.2	126.4
131	94.9	84.1	126.1

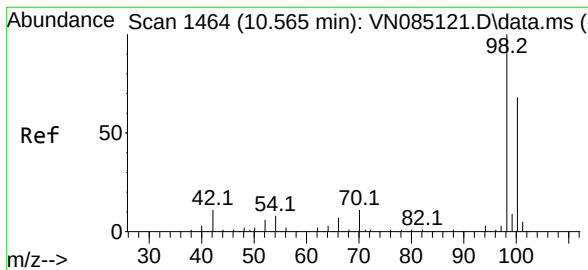


#62
Toluene
Concen: 19.542 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 91 Resp: 169444

Ion	Ratio	Lower	Upper
91	100		
92	57.9	46.5	69.7

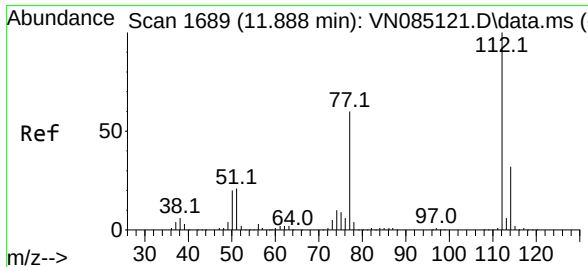
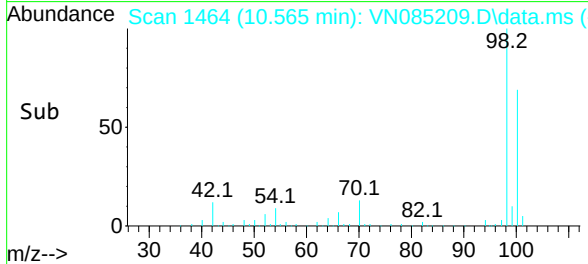
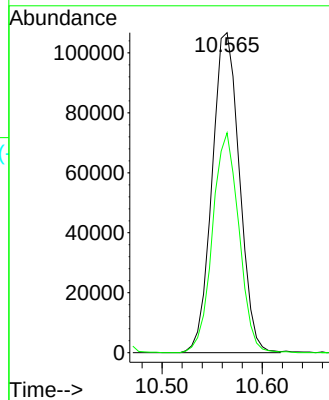
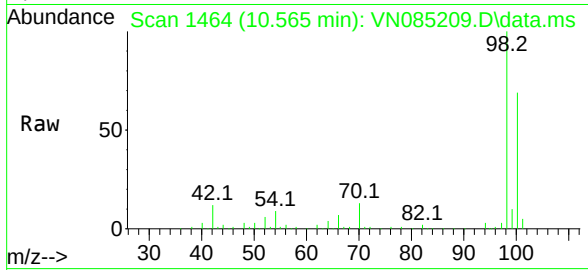




#63
Toluene-d8
Concen: 29.009 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

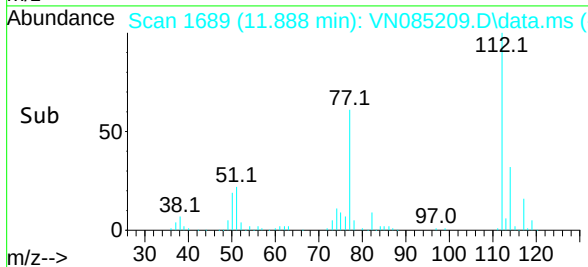
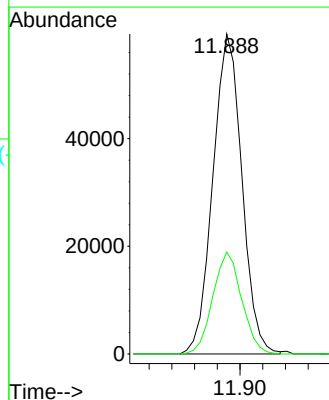
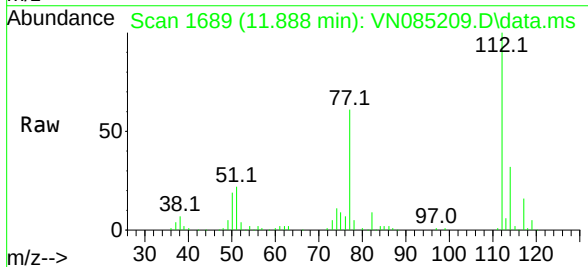
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

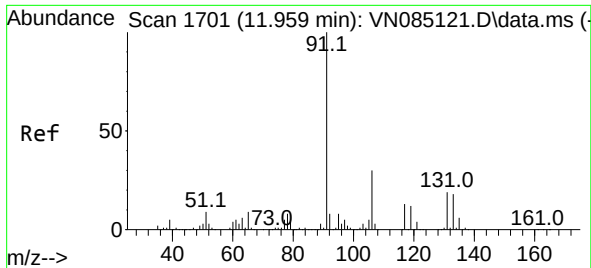
Tgt Ion: 98 Resp: 202306
Ion Ratio Lower Upper
98 100
100 66.4 52.0 78.0



#64
Chlorobenzene
Concen: 19.669 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 112 Resp: 105294
Ion Ratio Lower Upper
112 100
114 31.9 26.0 39.0

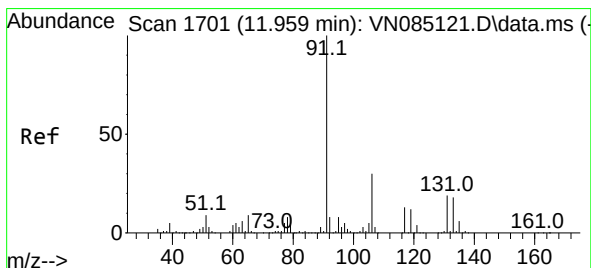
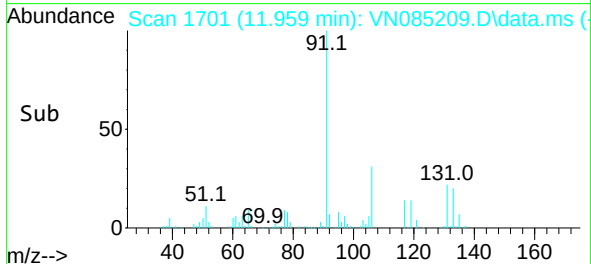
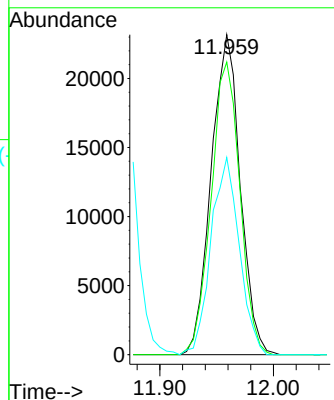
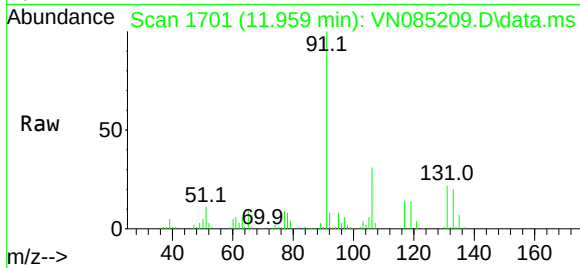




#65
 1,1,1,2-Tetrachloroethane
 Concen: 20.641 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

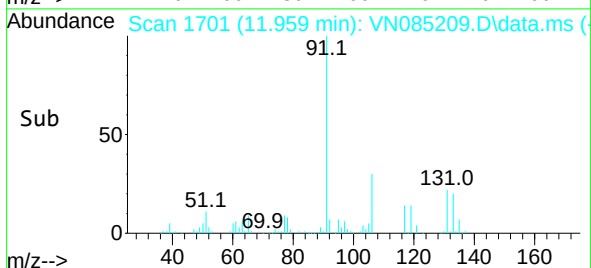
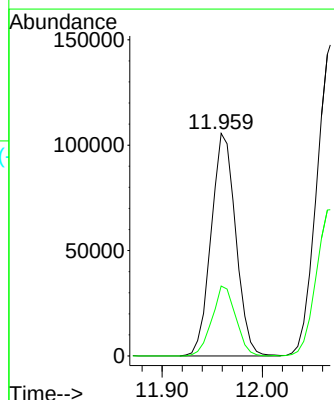
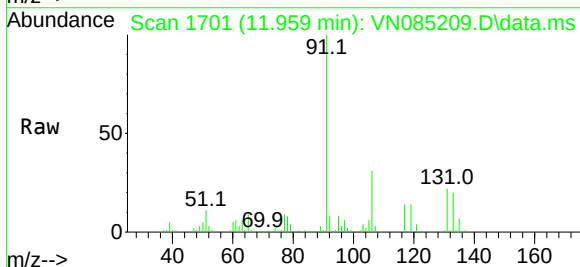
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBSD01

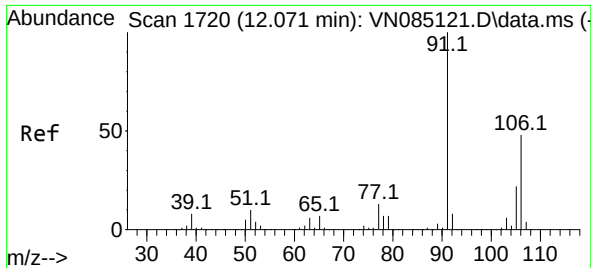
Tgt Ion:131 Resp: 41250
 Ion Ratio Lower Upper
 131 100
 133 90.4 0.0 194.0
 119 59.8 0.0 131.8



#66
 Ethyl Benzene
 Concen: 19.592 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.006 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

Tgt Ion: 91 Resp: 180260
 Ion Ratio Lower Upper
 91 100
 106 31.4 23.1 34.7

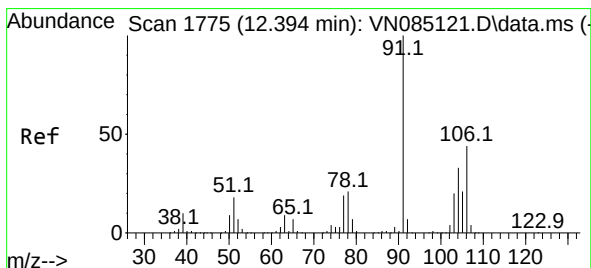
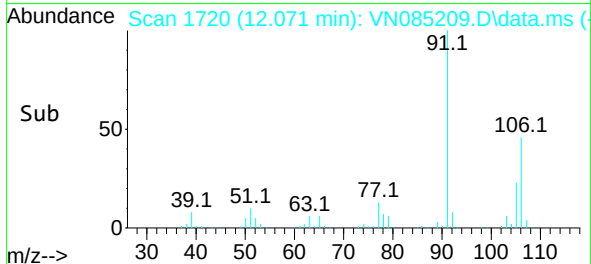
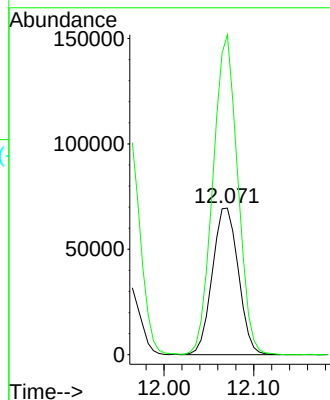
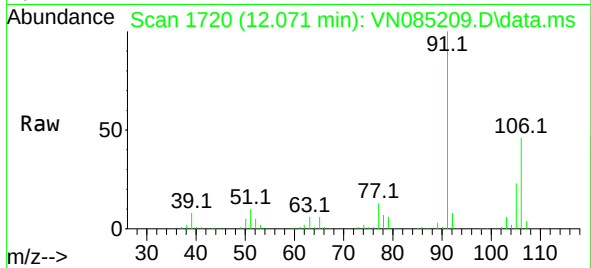




#67
m/p-Xylenes
Concen: 39.552 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

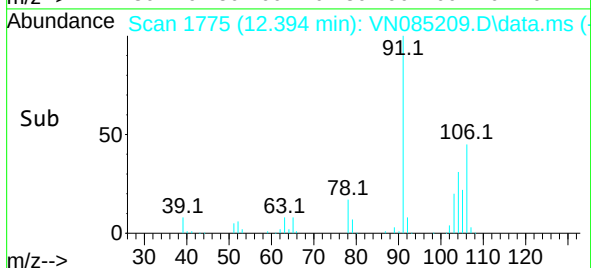
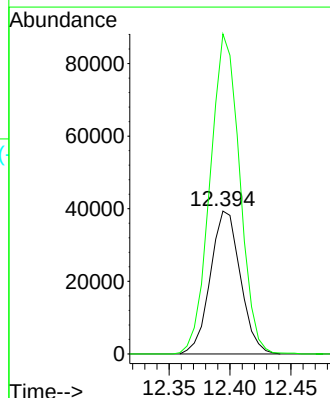
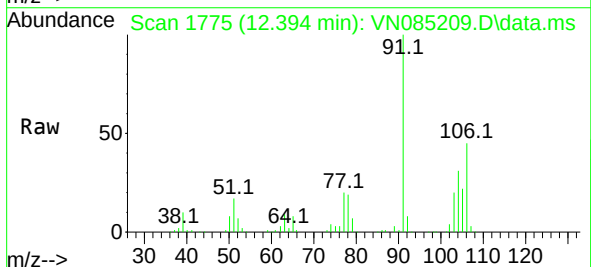
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

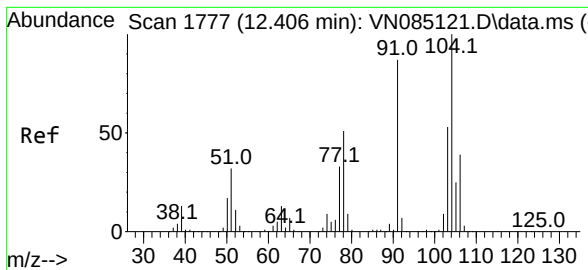
Tgt Ion:106 Resp: 139966
Ion Ratio Lower Upper
106 100
91 208.0 165.0 247.4



#68
o-Xylene
Concen: 20.311 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:106 Resp: 67500
Ion Ratio Lower Upper
106 100
91 220.7 112.1 336.4

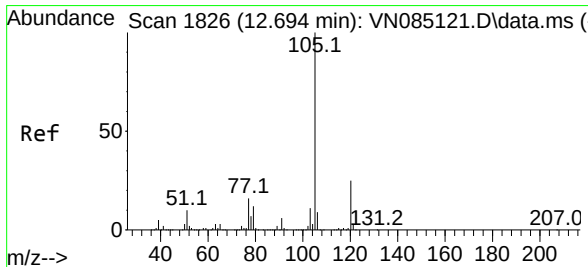
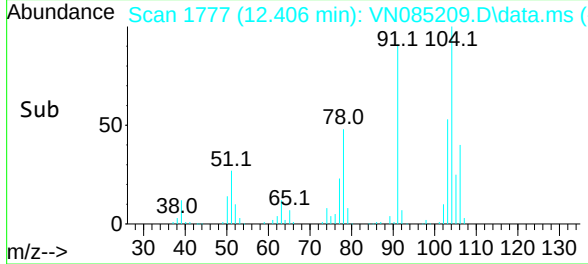
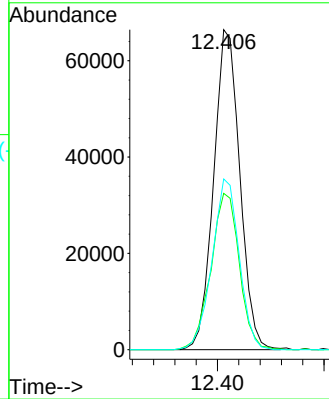
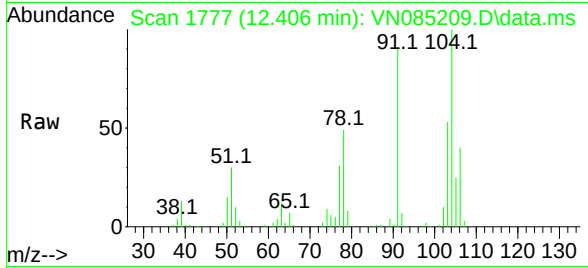




#69
Styrene
Concen: 20.099 ug/l
RT: 12.406 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

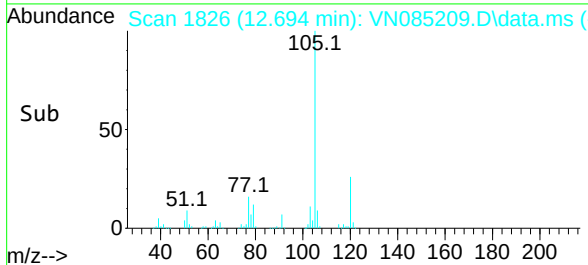
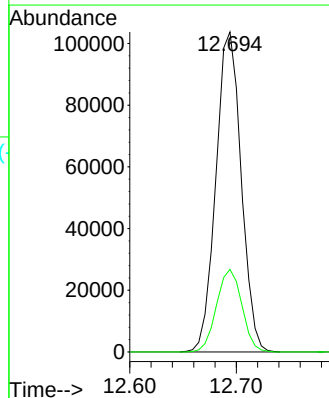
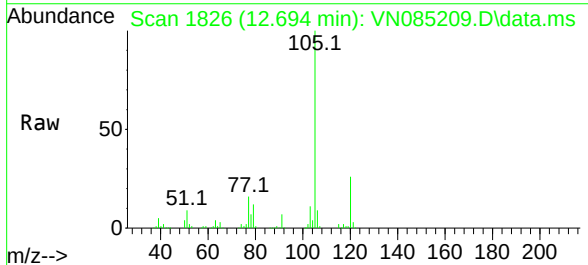
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

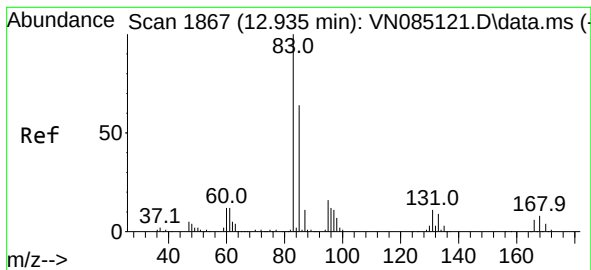
Tgt Ion:104 Resp: 113349
Ion Ratio Lower Upper
104 100
78 53.1 42.3 63.5
103 55.3 44.4 66.6



#70
Isopropylbenzene
Concen: 19.942 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:105 Resp: 170936
Ion Ratio Lower Upper
105 100
120 25.8 18.3 33.9

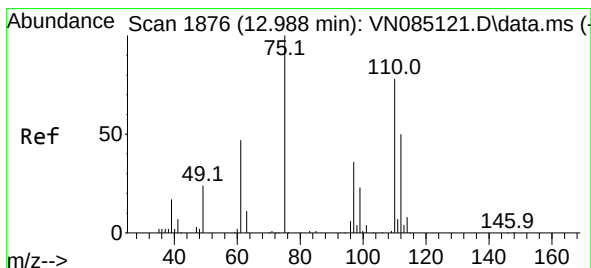
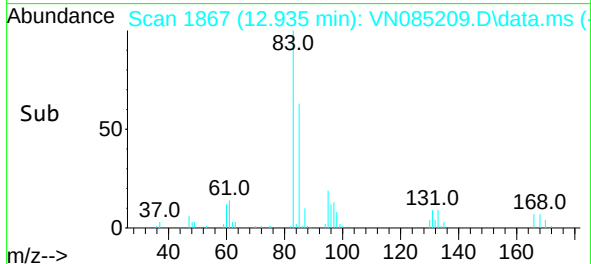
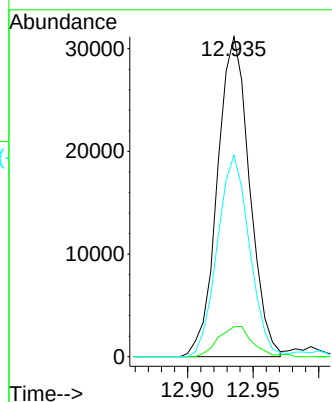
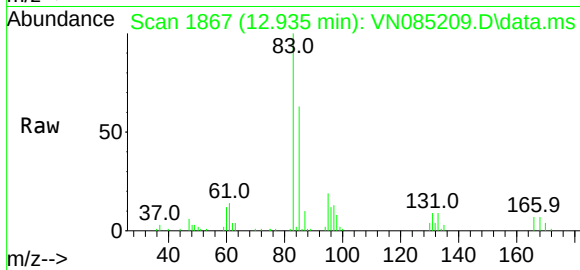




#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.363 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

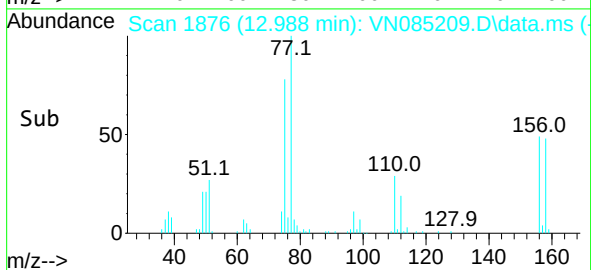
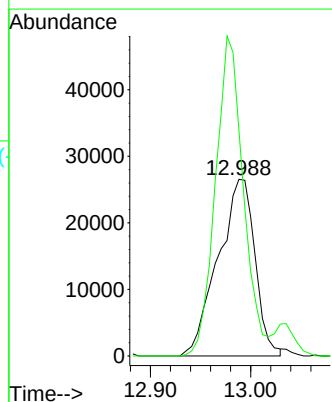
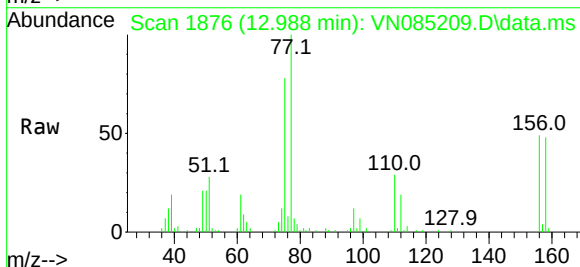
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBSD01

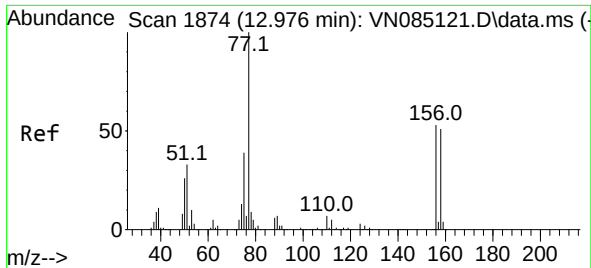
Tgt Ion: 83 Resp: 53129
 Ion Ratio Lower Upper
 83 100
 131 9.8 5.1 15.3
 85 62.9 31.1 93.5



#72
 1,2,3-Trichloropropane
 Concen: 26.326 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. -0.006 min
 Lab File: VN085209.D
 Acq: 16 Dec 2024 10:57

Tgt Ion: 75 Resp: 67849
 Ion Ratio Lower Upper
 75 100
 77 136.9 0.0 339.0

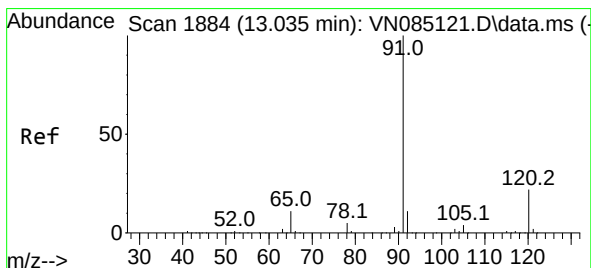
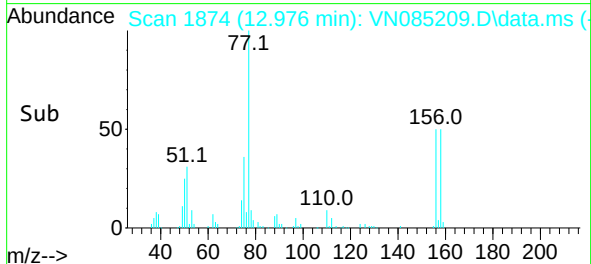
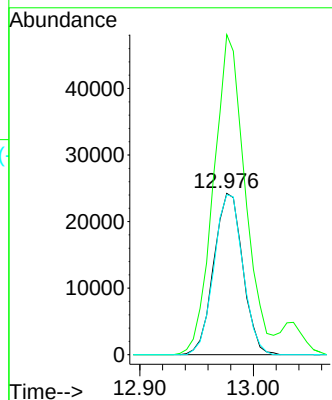
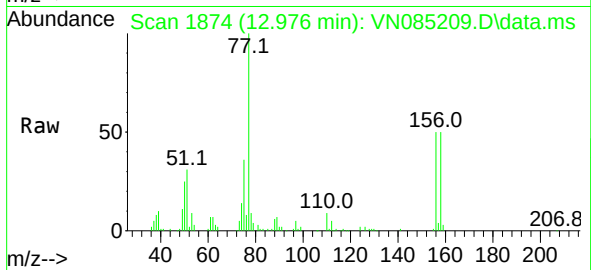




#73
Bromobenzene
Concen: 20.050 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

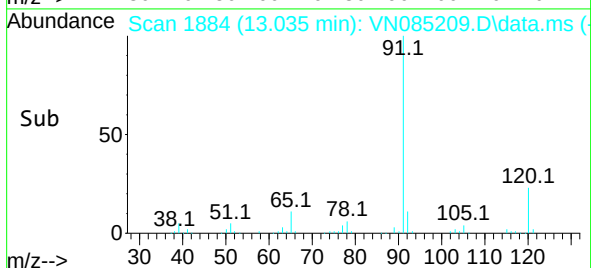
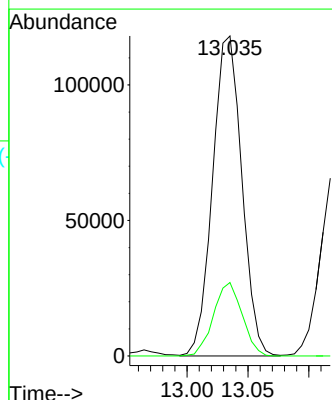
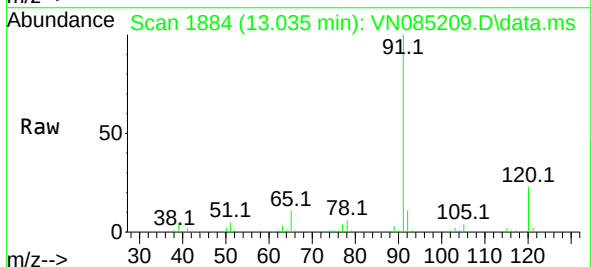
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

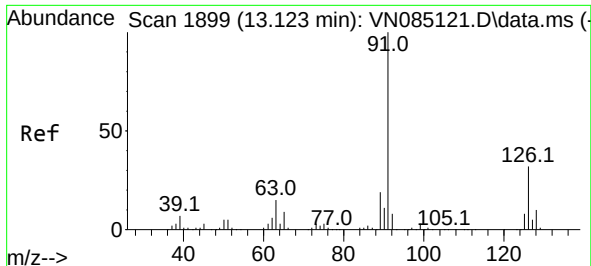
Tgt Ion:156 Resp: 43049
Ion Ratio Lower Upper
156 100
77 215.7 0.0 430.4
158 98.8 0.0 195.2



#74
n-propylbenzene
Concen: 19.157 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 91 Resp: 197415
Ion Ratio Lower Upper
91 100
120 22.4 0.0 44.0

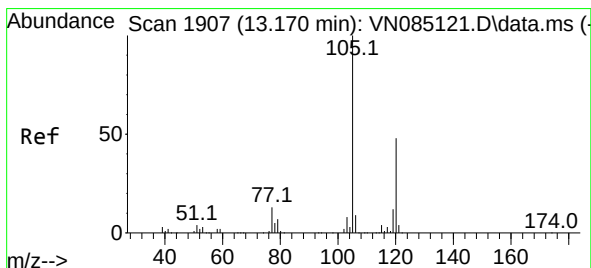
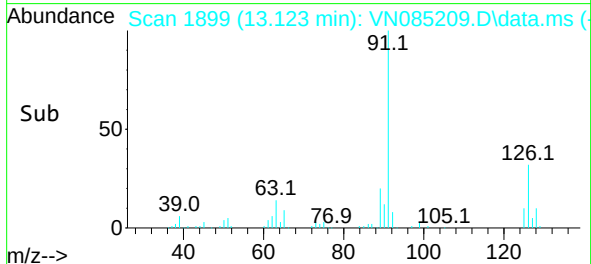
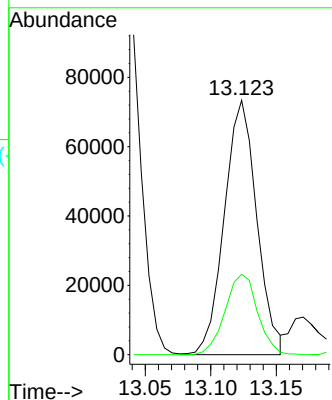
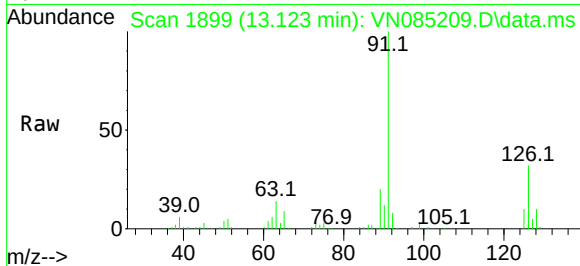




#75
2-Chlorotoluene
Concen: 19.864 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

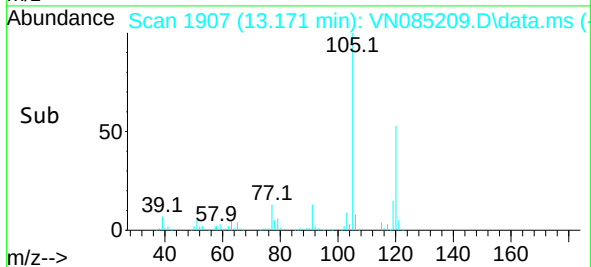
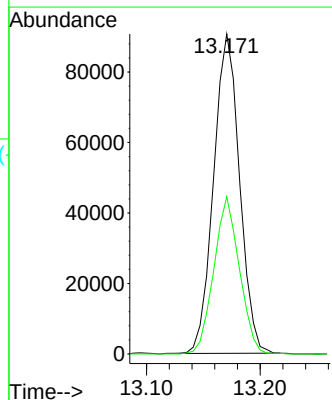
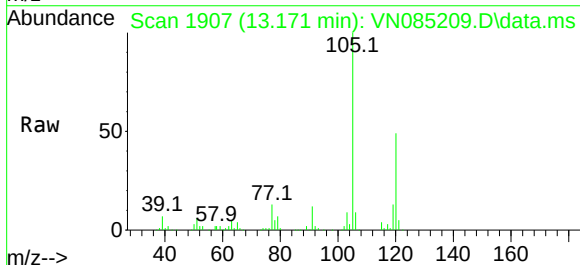
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

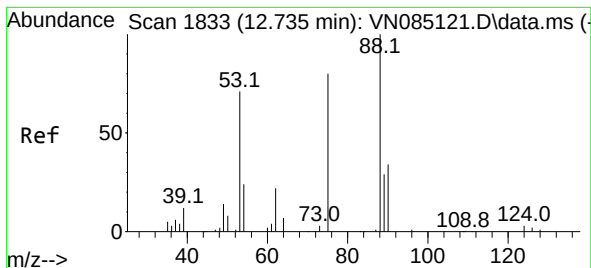
Tgt Ion: 91 Resp: 126567
Ion Ratio Lower Upper
91 100
126 31.6 0.0 64.2



#76
1,3,5-Trimethylbenzene
Concen: 19.583 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 105 Resp: 143813
Ion Ratio Lower Upper
105 100
120 48.3 0.0 94.4

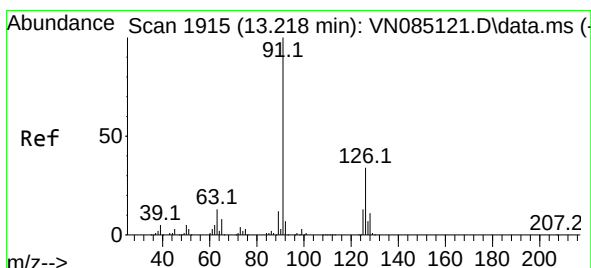
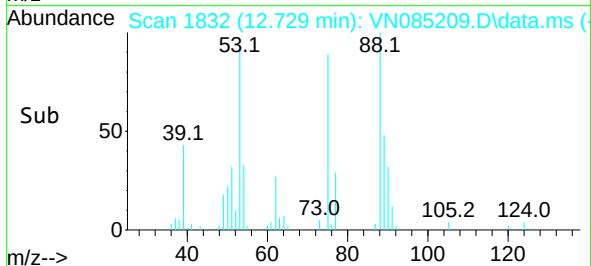
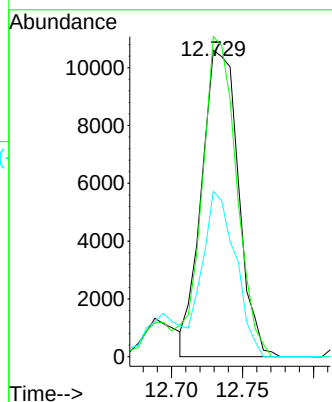
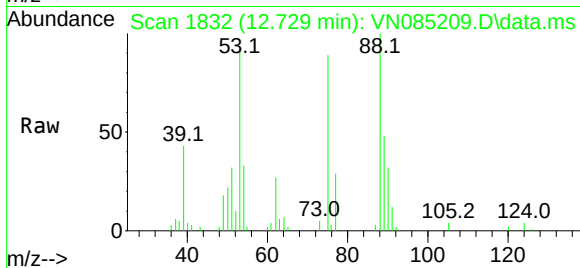




#77
t-1,4-Dichloro-2-butene
Concen: 20.358 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. -0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

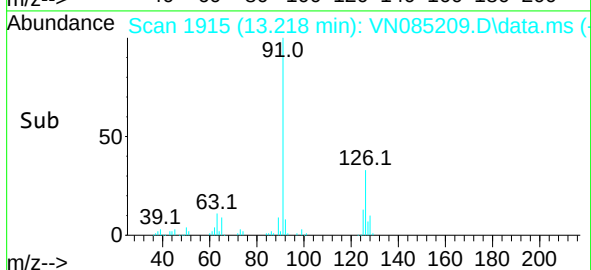
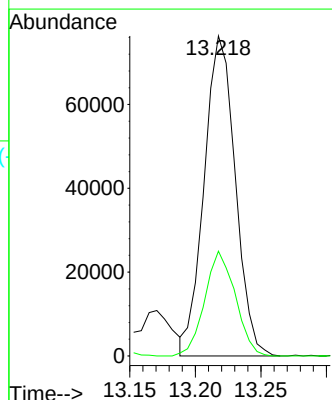
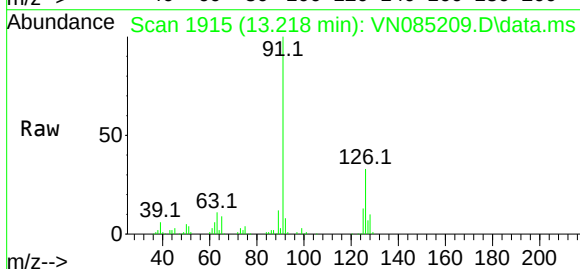
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

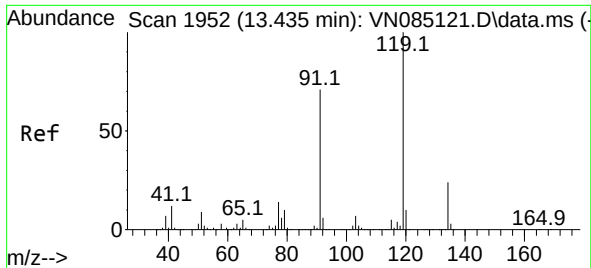
Tgt Ion:	75	Resp:	19066
Ion Ratio	Lower	Upper	
75	100		
53	104.4	49.1	147.3
89	54.0	22.9	68.5



#78
4-Chlorotoluene
Concen: 19.518 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:	91	Resp:	126224
Ion Ratio	Lower	Upper	
91	100		
126	32.2	0.0	64.4

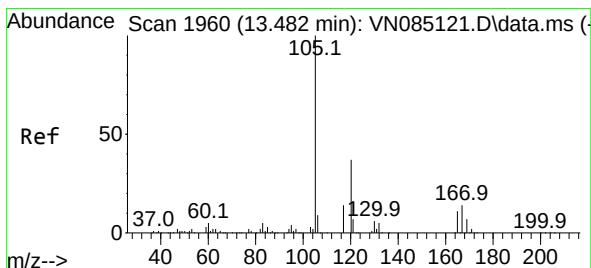
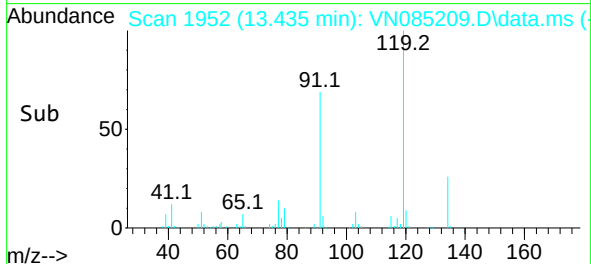
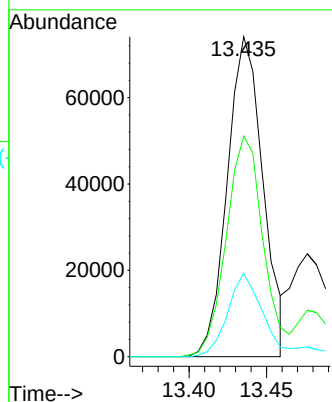
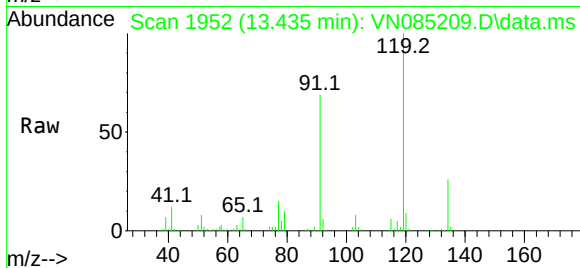




#79
tert-butylbenzene
Concen: 19.754 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

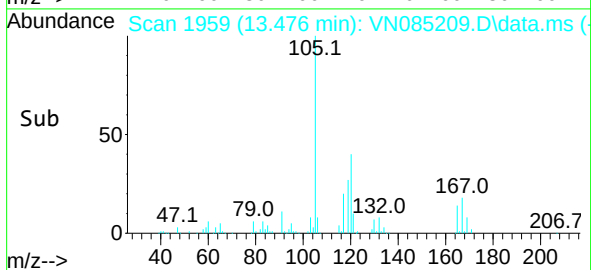
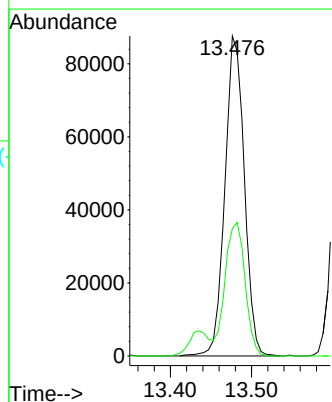
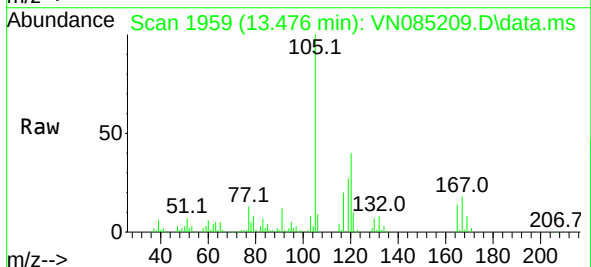
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

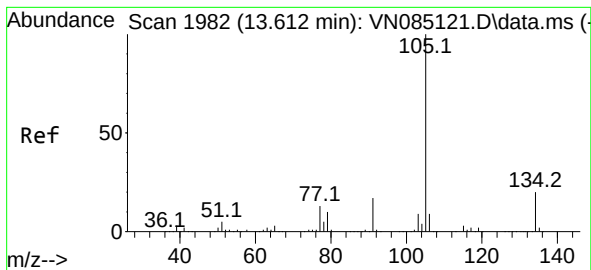
Tgt Ion:119 Resp: 119154
Ion Ratio Lower Upper
119 100
91 71.3 0.0 139.2
134 25.0 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 20.096 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:105 Resp: 145777
Ion Ratio Lower Upper
105 100
120 42.9 0.0 87.4





#81

sec-Butylbenzene

Concen: 19.763 ug/l

RT: 13.618 min Scan# 1982

Delta R.T. 0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

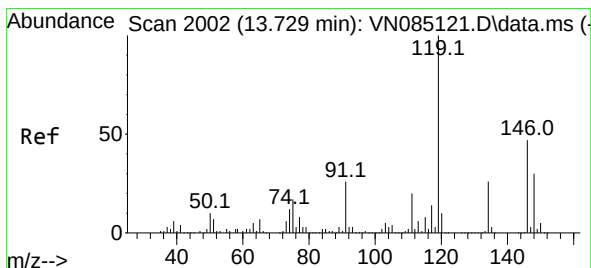
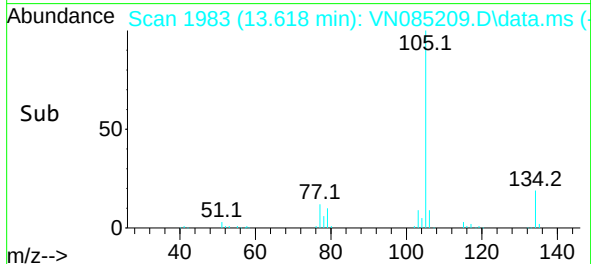
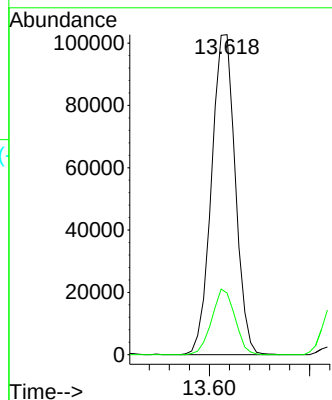
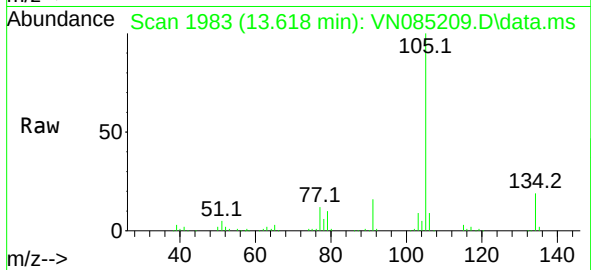
VN1216WBSD01

Tgt Ion:105 Resp: 169356

Ion Ratio Lower Upper

105 100

134 20.0 0.0 38.0



#82

p-Isopropyltoluene

Concen: 19.813 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

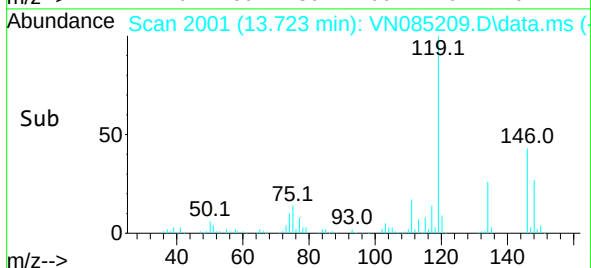
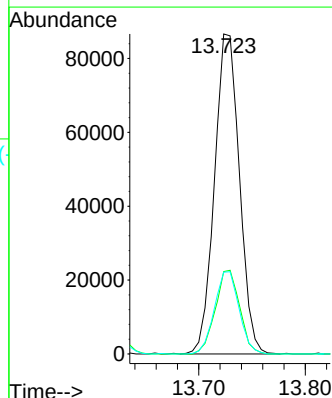
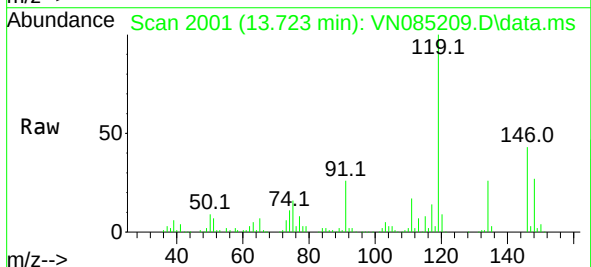
Tgt Ion:119 Resp: 140763

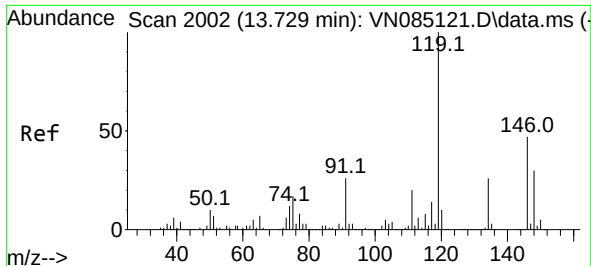
Ion Ratio Lower Upper

119 100

134 25.5 0.0 51.6

91 25.5 0.0 50.4

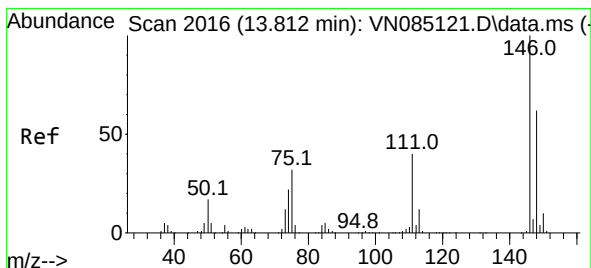
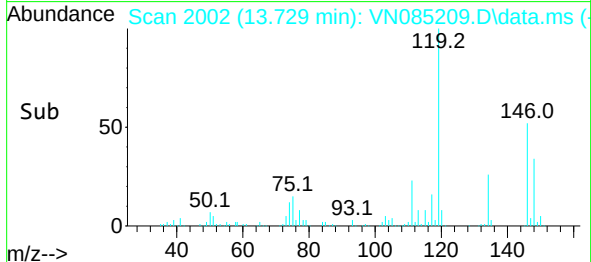
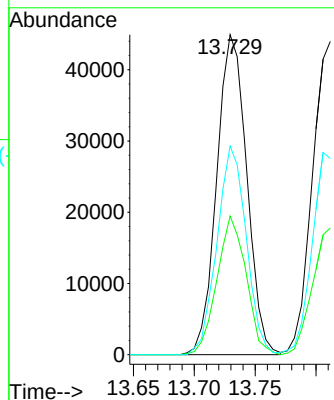
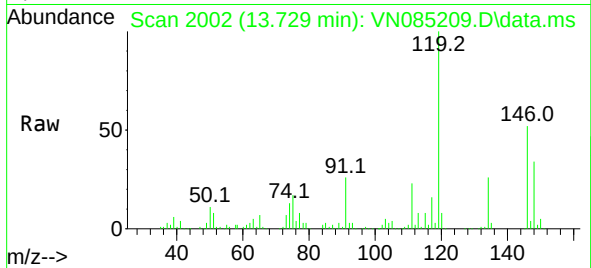




#83
1,3-Dichlorobenzene
Concen: 19.578 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

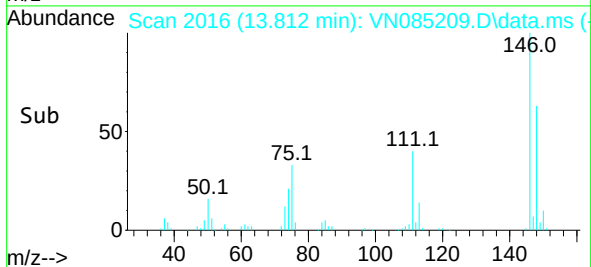
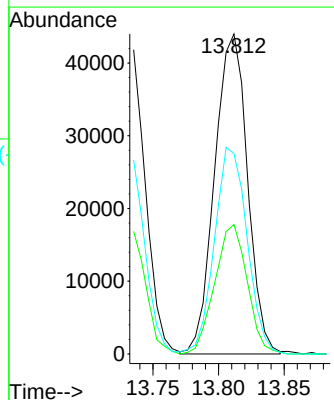
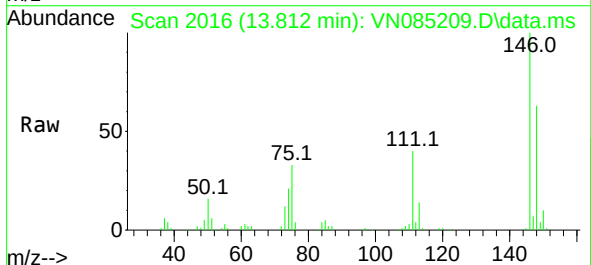
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

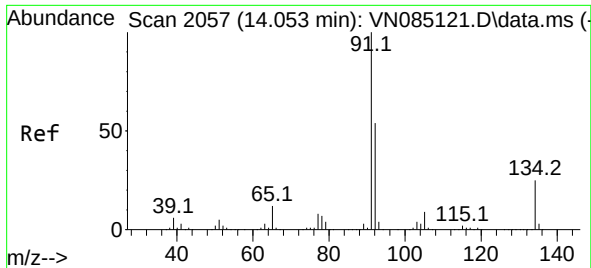
Tgt Ion:146 Resp: 77122
Ion Ratio Lower Upper
146 100
111 41.9 21.1 63.3
148 63.5 31.8 95.3



#84
1,4-Dichlorobenzene
Concen: 19.952 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:146 Resp: 76595
Ion Ratio Lower Upper
146 100
111 39.9 20.1 60.3
148 64.3 31.6 94.7

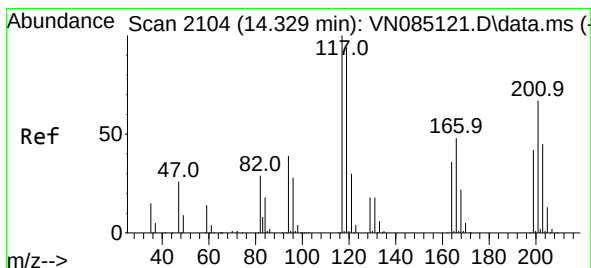
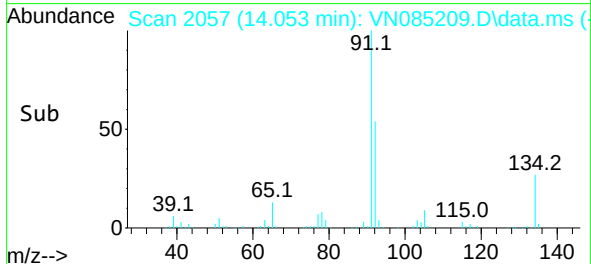
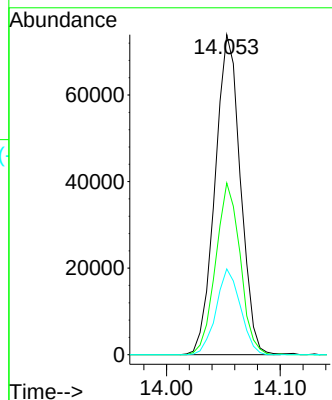
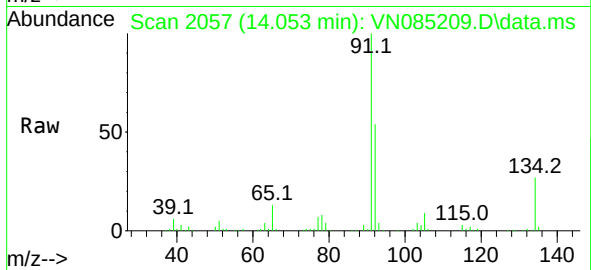




#85
n-Butylbenzene
Concen: 19.288 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

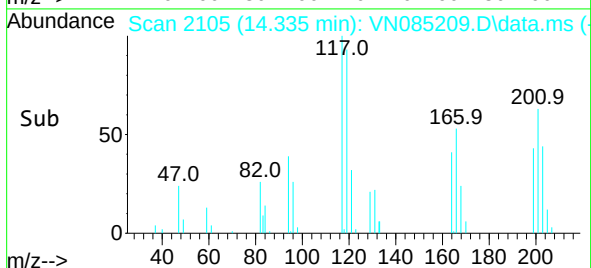
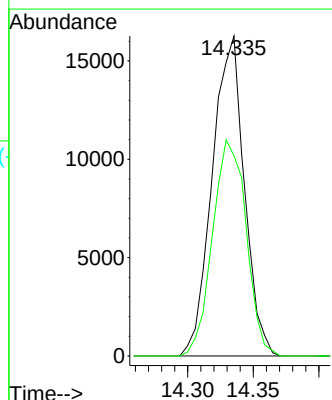
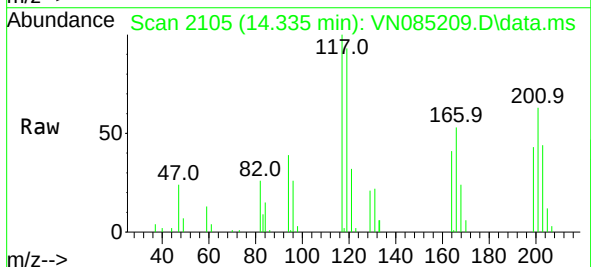
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

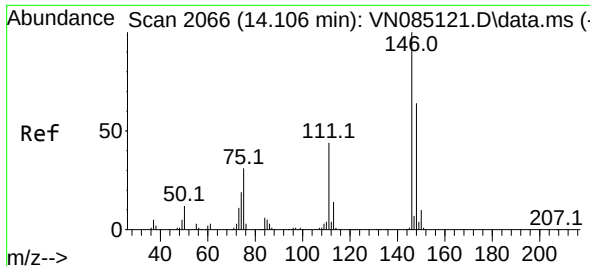
Tgt Ion: 91 Resp: 114947
Ion Ratio Lower Upper
91 100
92 51.6 0.0 104.0
134 25.6 0.0 49.2



#86
Hexachloroethane
Concen: 19.558 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion: 117 Resp: 27662
Ion Ratio Lower Upper
117 100
201 70.7 34.1 102.3

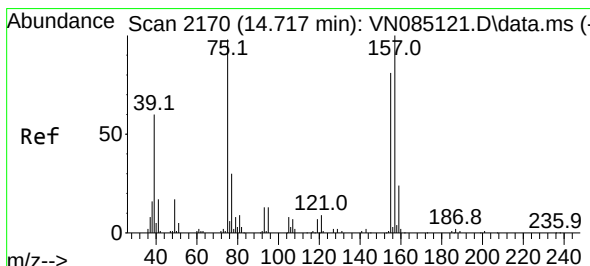
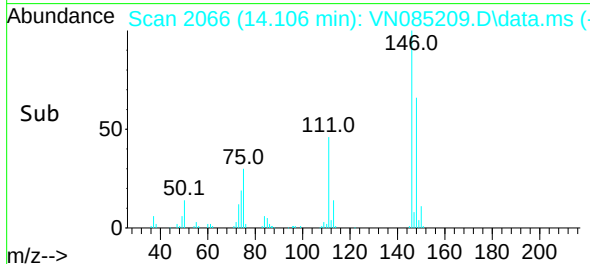
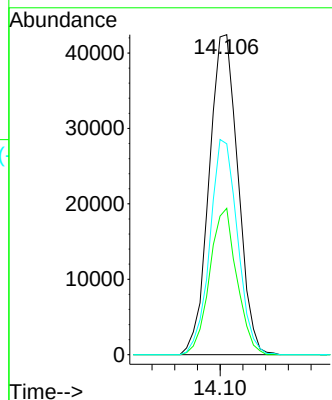
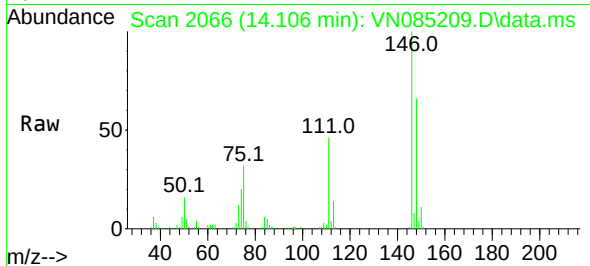




#87
1,2-Dichlorobenzene
Concen: 20.174 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

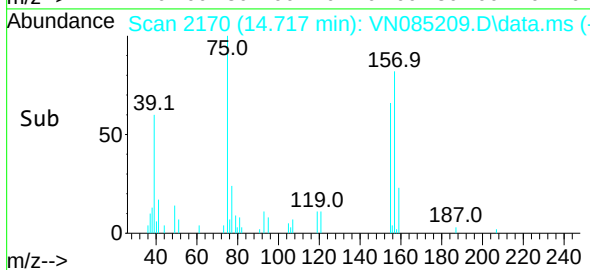
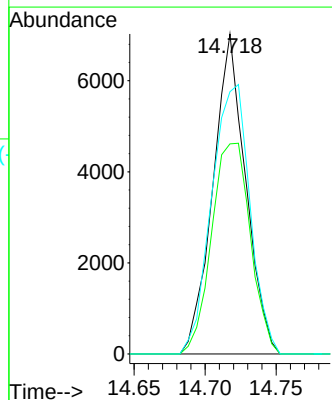
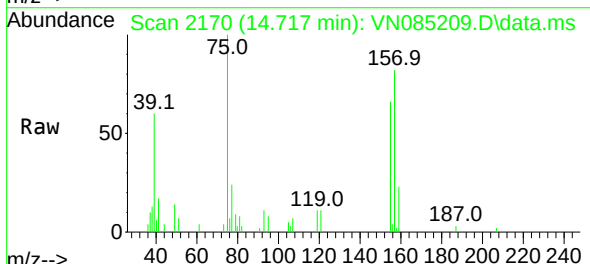
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

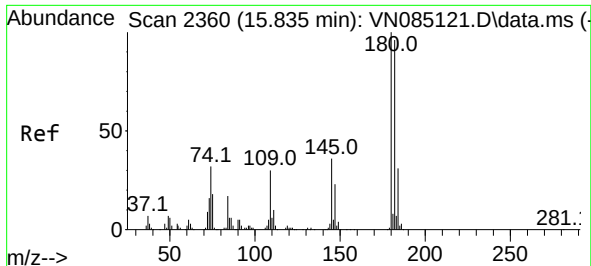
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.9	65.7
148	64.2	32.4	97.0



#88
1,2-Dibromo-3-Chloropropane
Concen: 21.598 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.1	62.1	93.1
157	98.6	79.3	118.9

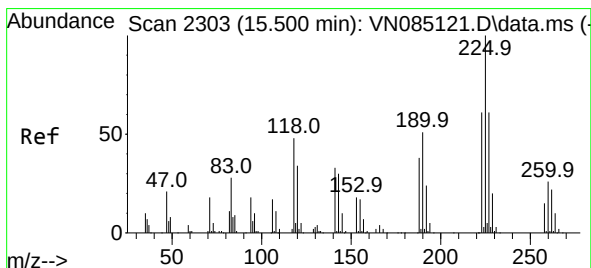
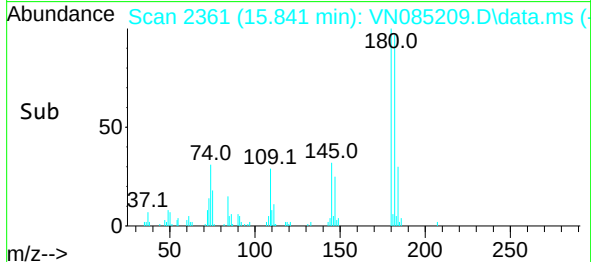
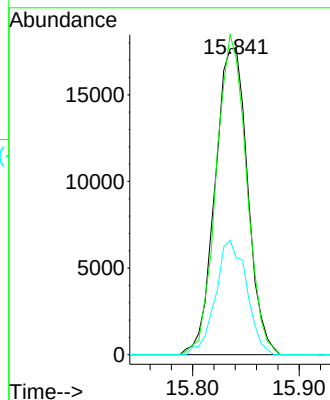
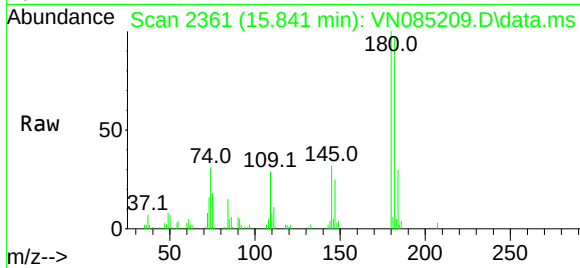




#89
1,2,4-Trichlorobenzene
Concen: 20.638 ug/l
RT: 15.841 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

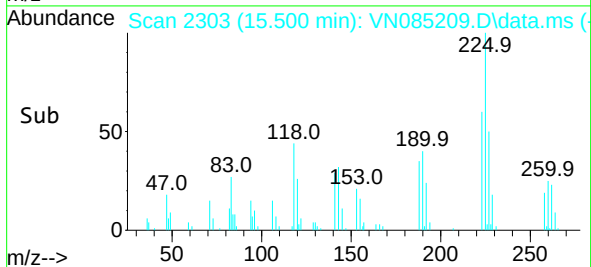
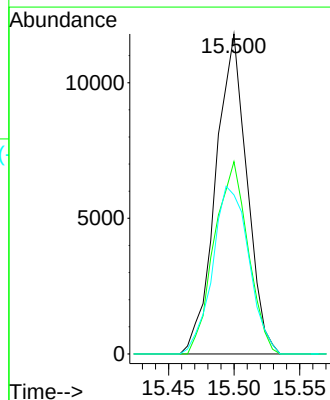
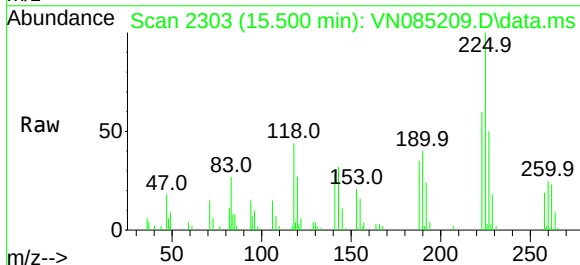
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBSD01

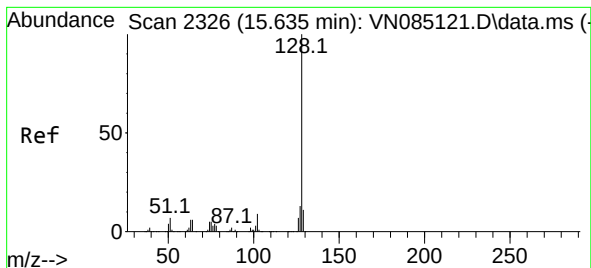
Tgt Ion:180 Resp: 37581
Ion Ratio Lower Upper
180 100
182 97.2 74.0 111.0
145 35.6 28.6 43.0



#90
Hexachlorobutadiene
Concen: 20.647 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085209.D
Acq: 16 Dec 2024 10:57

Tgt Ion:225 Resp: 19537
Ion Ratio Lower Upper
225 100
223 65.0 0.0 121.8
227 60.8 0.0 126.8





#91

Naphthalene

Concen: 20.616 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBSD01

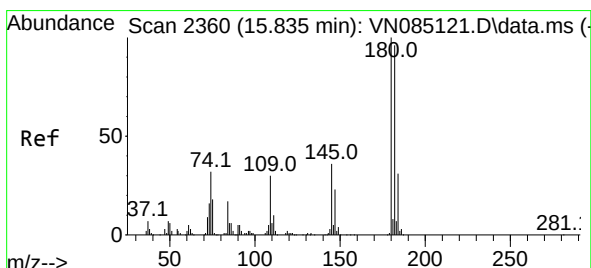
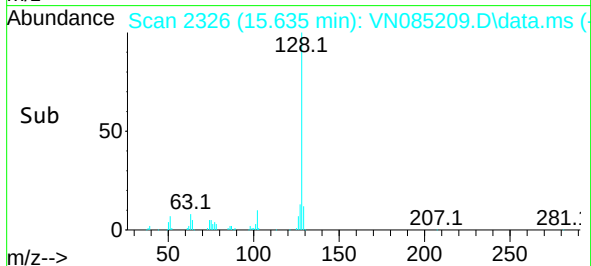
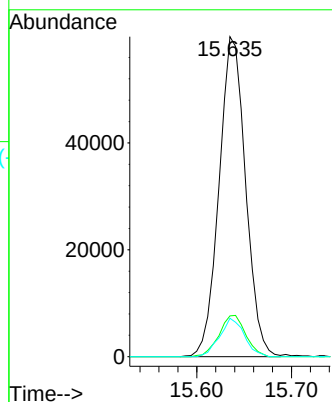
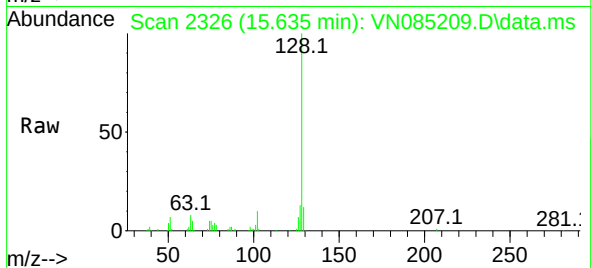
Tgt Ion:128 Resp: 116630

Ion Ratio Lower Upper

128 100

127 13.0 11.0 16.4

129 11.2 8.7 13.1



#92

1,2,3-Trichlorobenzene

Concen: 20.638 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085209.D

Acq: 16 Dec 2024 10:57

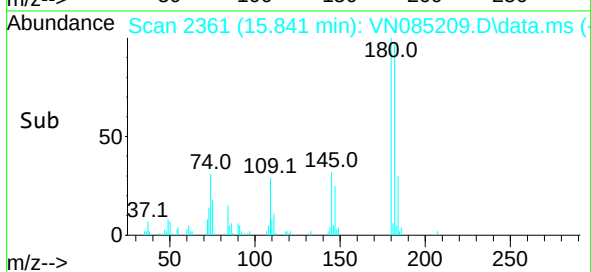
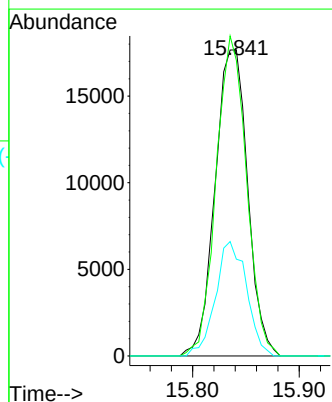
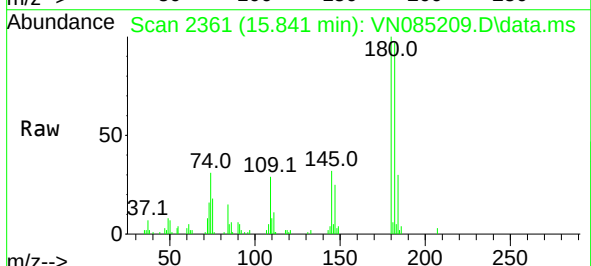
Tgt Ion:180 Resp: 37581

Ion Ratio Lower Upper

180 100

182 97.2 0.0 185.0

145 35.6 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085216.D
 Acq On : 16 Dec 2024 16:33
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Quant Time: Dec 17 02:01:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	158547	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146162	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71020	30.486	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.633%			
60) 4-Bromofluorobenzene	12.847	95	73363	30.335	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.133%			
63) Toluene-d8	10.565	98	203918	29.742	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.133%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	49748	21.179	ug/l	93
3) Chloromethane	2.359	50	42949	20.658	ug/l	99
4) Vinyl Chloride	2.512	62	44990	21.156	ug/l	97
5) Bromomethane	2.959	94	25352	18.777	ug/l	93
6) Chloroethane	3.118	64	28088	21.499	ug/l	100
7) Trichlorofluoromethane	3.501	101	70874	20.361	ug/l	99
8) Diethyl Ether	3.959	74	22341	20.263	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	40686	20.901	ug/l	98
10) 1,1-Dichloroethene	4.336	96	36236	20.266	ug/l	94
11) Methyl Iodide	4.583	142	40185	16.205	ug/l	92
12) Methyl Acetate	5.024	43	45420	21.532	ug/l	94
13) Acrolein	4.177	56	33787	110.222	ug/l	93
14) Acrylonitrile	5.718	53	90277	103.071	ug/l	99
15) Acetone	4.424	58	28037	118.123	ug/l	98
16) Carbon Disulfide	4.706	76	106280	19.886	ug/l	97
17) Allyl chloride	5.024	41	49851	19.485	ug/l	93
18) Methylene Chloride	5.271	84	38850	19.149	ug/l	96
19) trans-1,2-Dichloroethene	5.777	96	37332	20.087	ug/l	98
20) Diisopropyl ether	6.671	45	112534	20.042	ug/l	98
21) 1,1-Dichloroethane	6.565	63	69939	20.181	ug/l #	95
22) cis-1,2-Dichloroethene	7.489	96	42975	20.118	ug/l	99
23) tert-Butyl Alcohol	5.512	59	31217	99.351	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	115332	20.646	ug/l #	76
25) Chloroform	7.965	83	74737	20.586	ug/l	94
26) Cyclohexane	8.253	56	55678	19.513	ug/l #	90
29) 1,1-Dichloropropene	8.365	75	51044	19.952	ug/l	98
30) 2-Butanone	7.483	43	122922	104.700	ug/l	99
31) 2,2-Dichloropropane	7.483	77	65668	20.016	ug/l #	100
32) 1,1,1-Trichloroethane	8.171	97	70477	20.352	ug/l	98
33) Carbon Tetrachloride	8.359	117	62403	19.971	ug/l	92
34) Benzene	8.600	78	158070	19.668	ug/l	98
35) Methacrylonitrile	7.771	41	24639	18.649	ug/l	88
36) 1,2-Dichloroethane	8.665	62	53647	19.608	ug/l	100
37) Trichloroethene	9.347	130	37732	19.715	ug/l	89
38) Methylcyclohexane	9.600	83	53143	19.104	ug/l	95
39) 1,2-Dichloropropane	9.618	63	37813	19.424	ug/l	96
40) Dibromomethane	9.706	93	28271	20.246	ug/l	99
41) Bromodichloromethane	9.883	83	59043	19.780	ug/l	95
42) Vinyl Acetate	6.600	43	421239	102.535	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085216.D
 Acq On : 16 Dec 2024 16:33
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

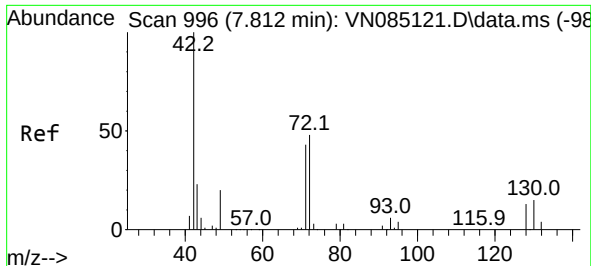
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	47420	20.300	ug/l	96
44) Isopropyl Acetate	8.683	43	83434	20.553	ug/l	100
45) 1,4-Dioxane	9.694	88	13913	410.991	ug/l	96
46) Methyl methacrylate	9.677	41	38564	20.757	ug/l	89
47) n-amyl Acetate	12.488	43	68064	19.928	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	56984	19.447	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	61200	19.185	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	37831	20.106	ug/l	97
51) Ethyl methacrylate	10.871	69	56637	19.790	ug/l	96
52) 1,3-Dichloropropane	11.159	76	63193	20.068	ug/l	99
53) Dibromochloromethane	11.359	129	46186	20.142	ug/l	97
54) 1,2-Dibromoethane	11.465	107	37912	19.998	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	127137	95.632	ug/l	98
56) Bromoform	12.576	173	30230	19.663	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	241784	101.359	ug/l	98
59) 2-Hexanone	11.194	43	180597	99.918	ug/l	98
61) Tetrachloroethene	11.100	164	35484	20.047	ug/l	88
62) Toluene	10.630	91	167102	19.603	ug/l	99
64) Chlorobenzene	11.888	112	107226	20.374	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	38942	19.821	ug/l	99
66) Ethyl Benzene	11.959	91	180830	19.992	ug/l	94
67) m/p-Xylenes	12.071	106	141848	40.773	ug/l	99
68) o-Xylene	12.394	106	66647	20.398	ug/l	97
69) Styrene	12.412	104	111932	20.189	ug/l	99
70) Isopropylbenzene	12.694	105	169768	20.146	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	52367	20.416	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	68868	27.180	ug/l	73
73) Bromobenzene	12.982	156	43360	20.542	ug/l	97
74) n-propylbenzene	13.035	91	204268	20.162	ug/l	99
75) 2-Chlorotoluene	13.123	91	125691	20.066	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	147652	20.451	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	17306	18.797	ug/l	98
78) 4-Chlorotoluene	13.218	91	127980	20.129	ug/l	100
79) tert-butylbenzene	13.435	119	118141	19.923	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	148267	20.790	ug/l	99
81) sec-Butylbenzene	13.612	105	169428	20.111	ug/l	98
82) p-Isopropyltoluene	13.729	119	142796	20.444	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	77972	20.134	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	77546	20.546	ug/l	99
85) n-Butylbenzene	14.053	91	115848	19.773	ug/l	99
86) Hexachloroethane	14.329	117	28941	20.814	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	74498	20.380	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10280	20.062	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	34875	19.481	ug/l	96
90) Hexachlorobutadiene	15.500	225	18191	19.555	ug/l	96
91) Naphthalene	15.641	128	107788	19.380	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	34875	19.481	ug/l	96

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

Quant Time: Dec 17 02:01:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

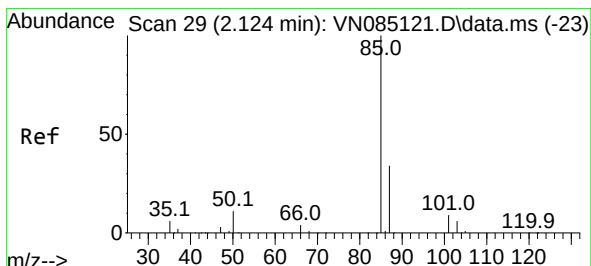
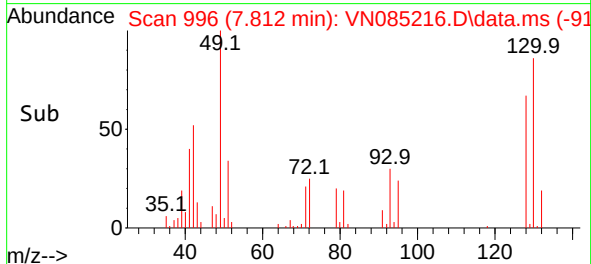
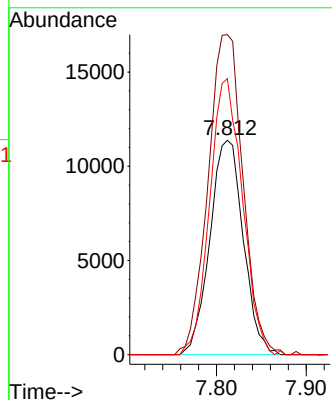
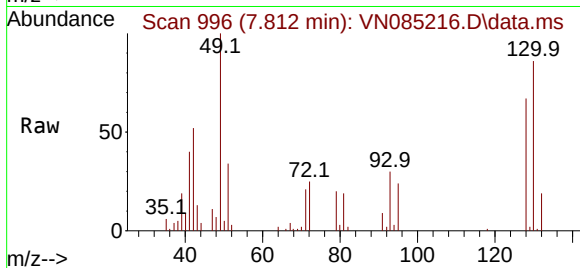




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

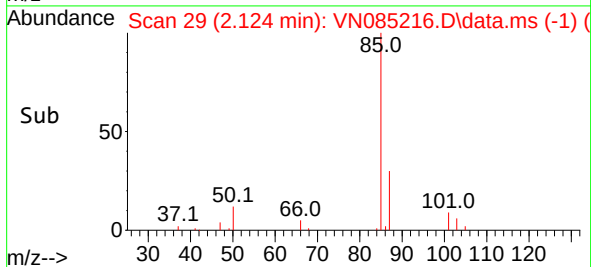
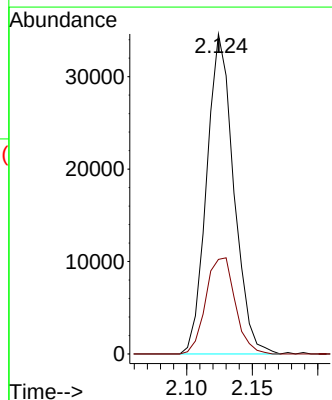
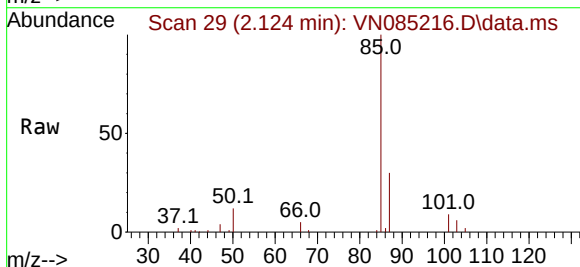
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

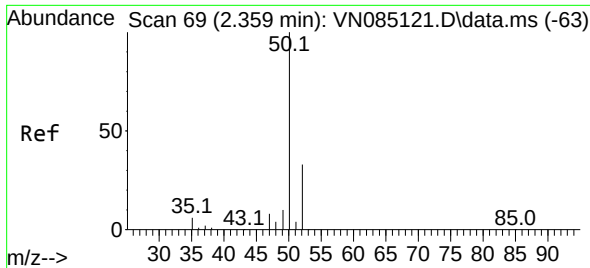
Tgt Ion:128 Resp: 29360
Ion Ratio Lower Upper
128 100
49 156.7 0.0 394.5
130 126.4 0.0 316.5



#2
Dichlorodifluoromethane
Concen: 21.179 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 85 Resp: 49748
Ion Ratio Lower Upper
85 100
87 29.6 16.8 50.3

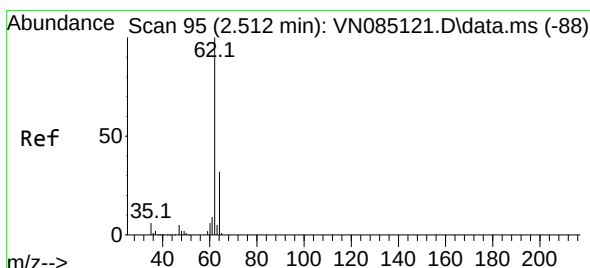
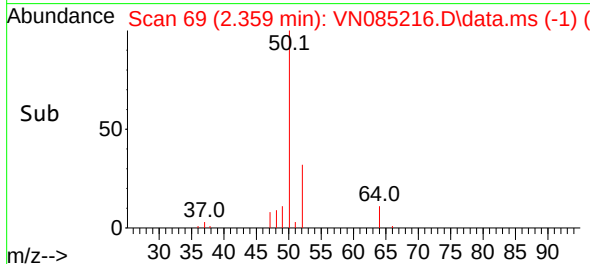
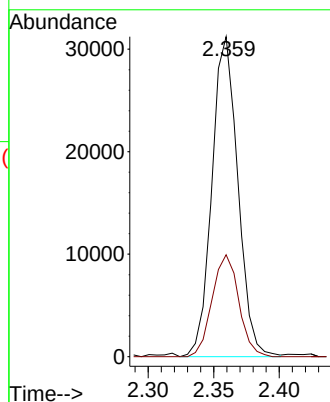
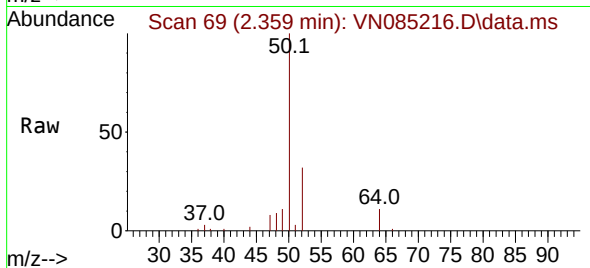




#3
Chloromethane
Concen: 20.658 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

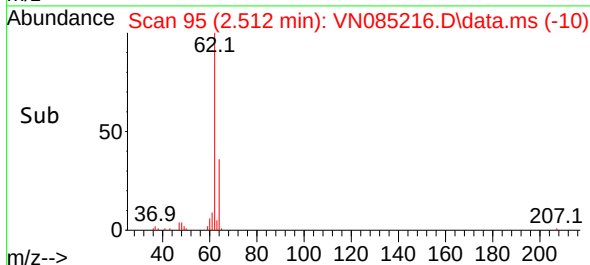
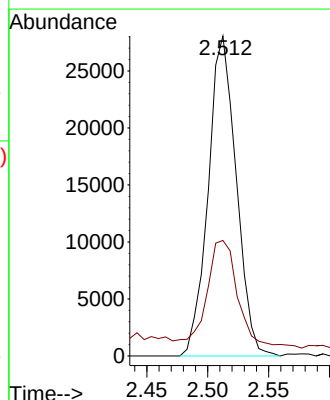
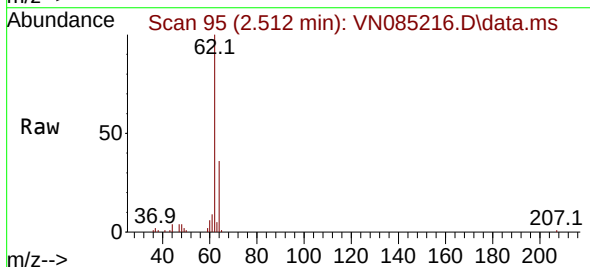
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

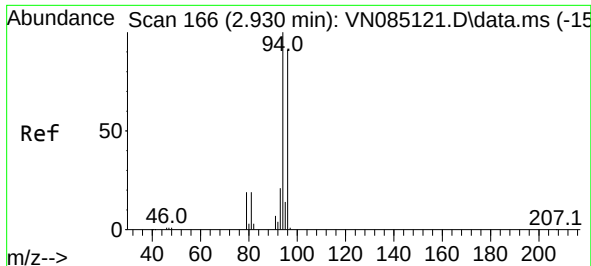
Tgt Ion: 50 Resp: 42949
Ion Ratio Lower Upper
50 100
52 31.8 25.0 37.4



#4
Vinyl Chloride
Concen: 21.156 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 62 Resp: 44990
Ion Ratio Lower Upper
62 100
64 32.5 24.9 37.3

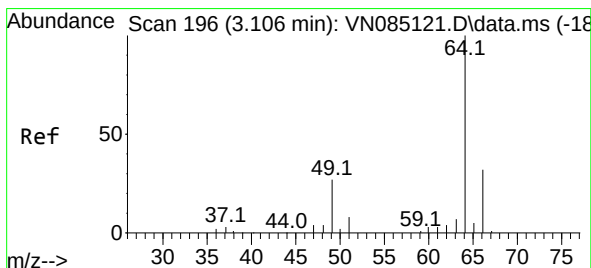
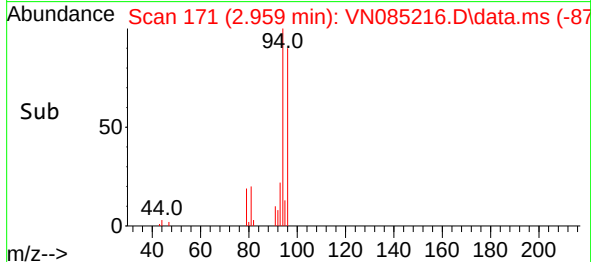
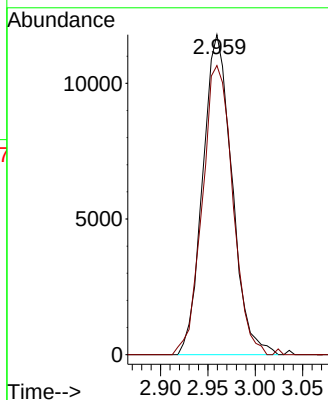
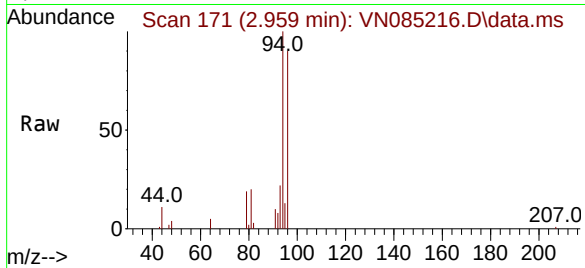




#5
Bromomethane
Concen: 18.777 ug/l
RT: 2.959 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

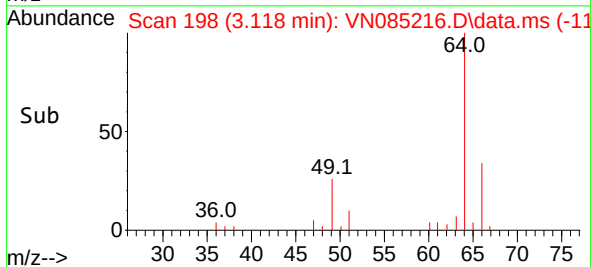
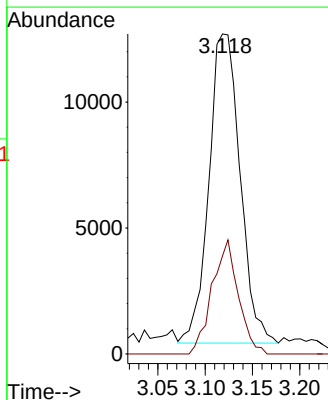
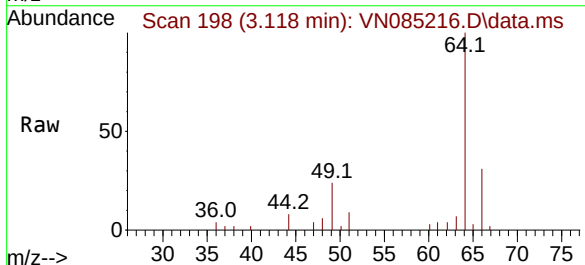
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

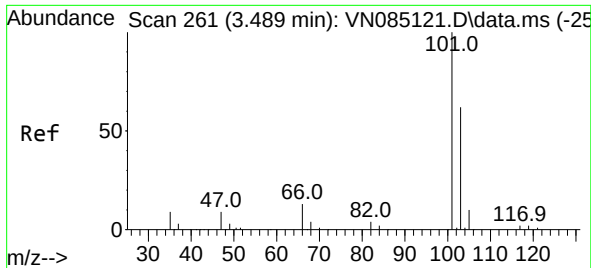
Tgt Ion: 94 Resp: 25352
Ion Ratio Lower Upper
94 100
96 88.5 76.2 114.4



#6
Chloroethane
Concen: 21.499 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 64 Resp: 28088
Ion Ratio Lower Upper
64 100
66 31.7 25.5 38.3

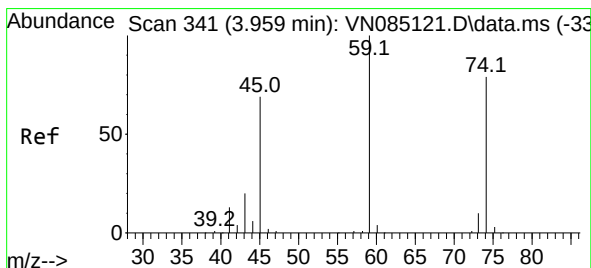
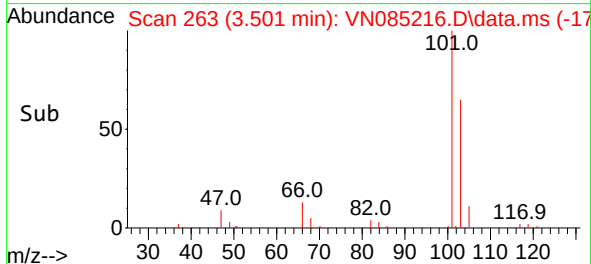
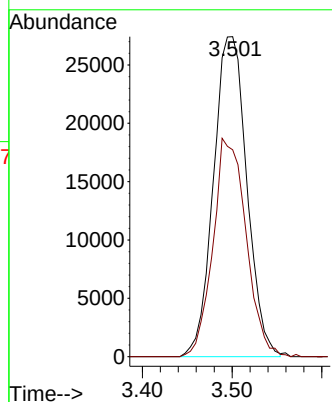
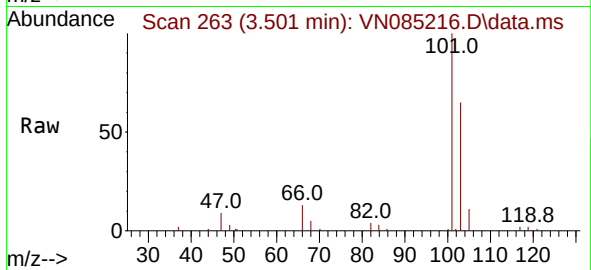




#7
 Trichlorofluoromethane
 Concen: 20.361 ug/l
 RT: 3.501 min Scan# 263
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

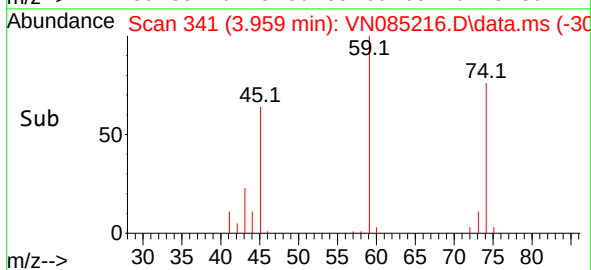
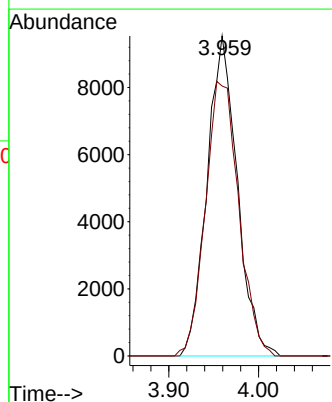
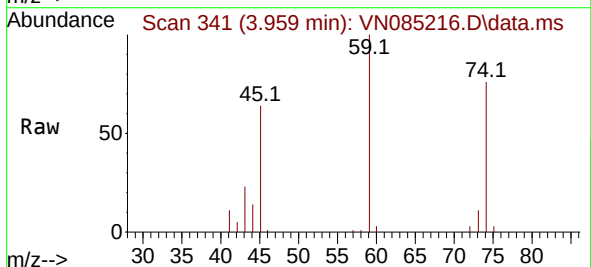
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

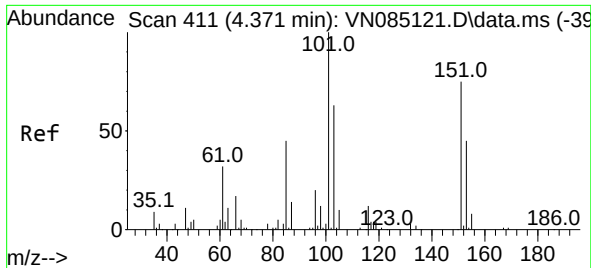
Tgt Ion:101 Resp: 70874
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.3 76.9



#8
 Diethyl Ether
 Concen: 20.263 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

Tgt Ion: 74 Resp: 22341
 Ion Ratio Lower Upper
 74 100
 45 94.3 18.6 167.8

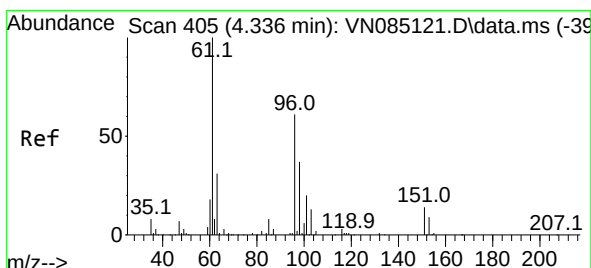
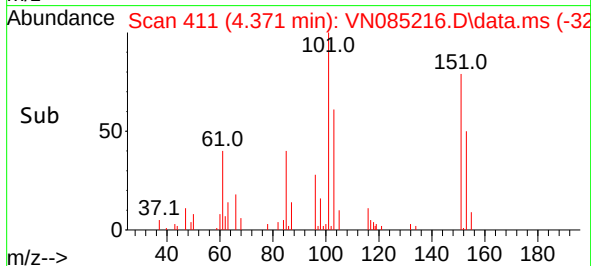
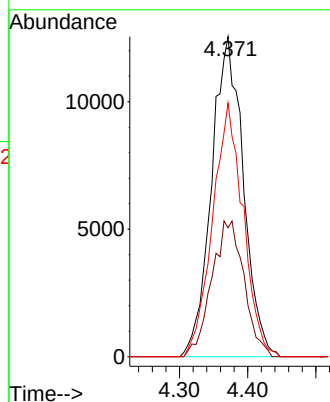
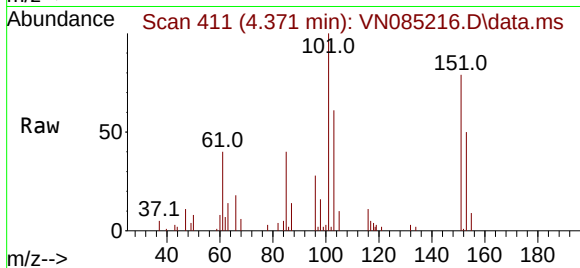




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.901 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

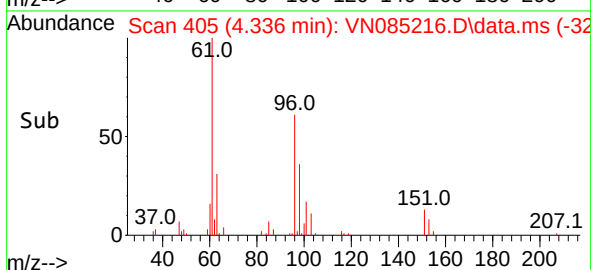
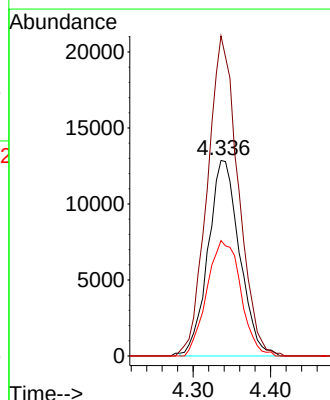
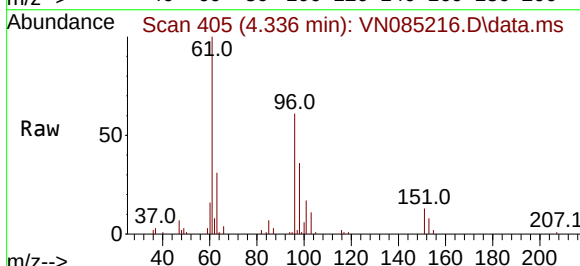
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

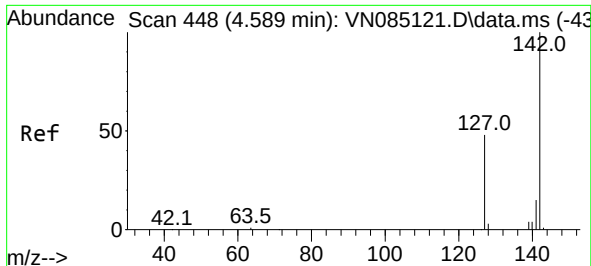
Tgt Ion:	101	Resp:	40686
Ion	Ratio	Lower	Upper
101	100		
85	43.3	0.0	88.6
151	76.1	0.0	155.8



#10
 1,1-Dichloroethene
 Concen: 20.266 ug/l
 RT: 4.336 min Scan# 405
 Delta R.T. -0.006 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

Tgt Ion:	96	Resp:	36236
Ion	Ratio	Lower	Upper
96	100		
61	162.2	123.0	184.4
98	59.0	49.1	73.7

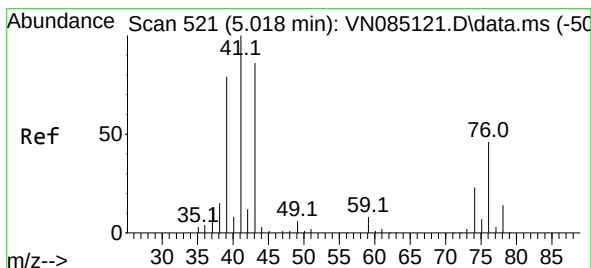
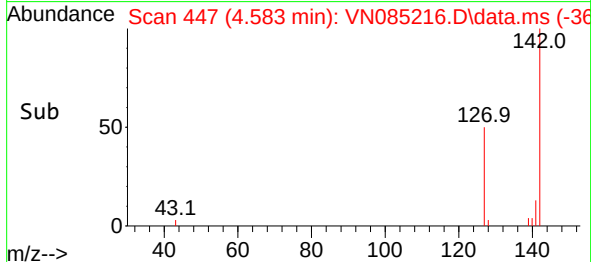
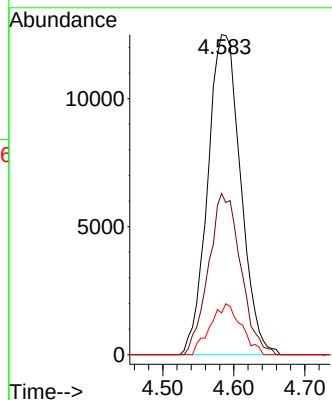
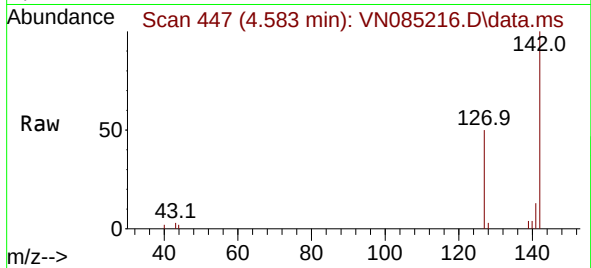




#11
Methyl Iodide
Concen: 16.205 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

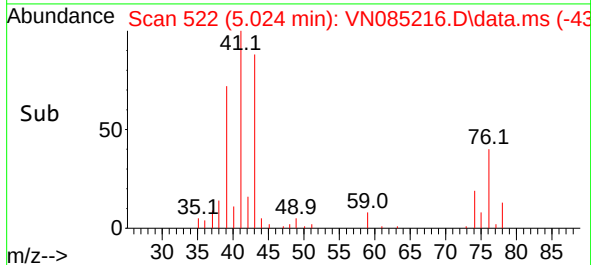
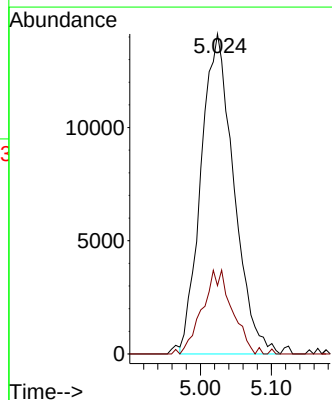
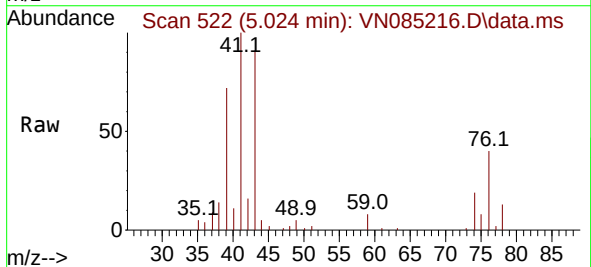
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

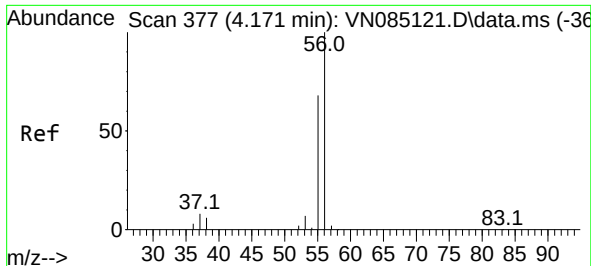
Tgt Ion:142 Resp: 40185
Ion Ratio Lower Upper
142 100
127 50.3 22.5 67.5
141 13.1 8.3 24.9



#12
Methyl Acetate
Concen: 21.532 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 43 Resp: 45420
Ion Ratio Lower Upper
43 100
74 21.6 19.8 29.6





#13

Acrolein

Concen: 110.222 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

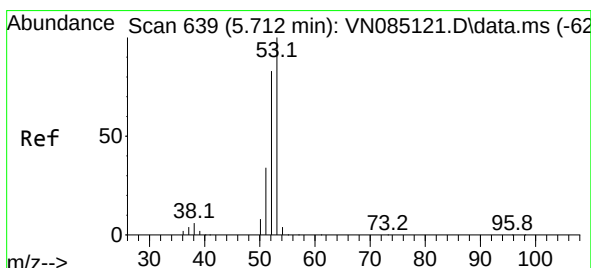
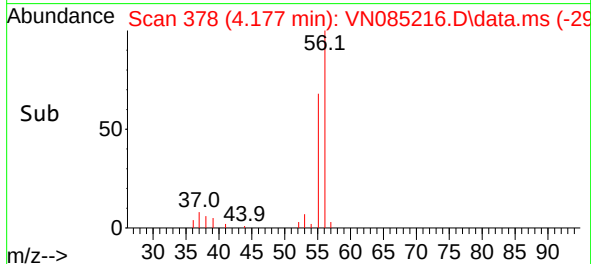
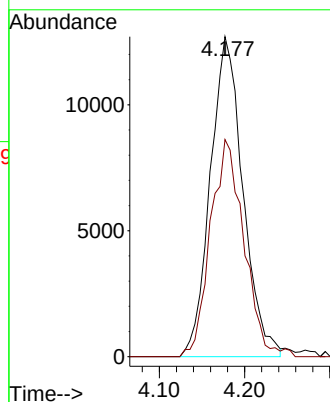
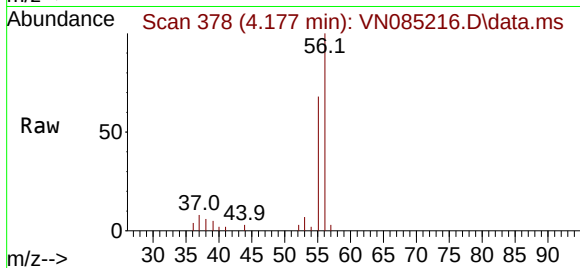
VSTDCCC020EC

Tgt Ion: 56 Resp: 33787

Ion Ratio Lower Upper

56 100

55 68.5 59.4 89.0



#14

Acrylonitrile

Concen: 103.071 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

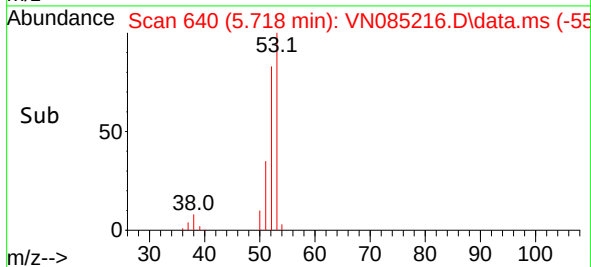
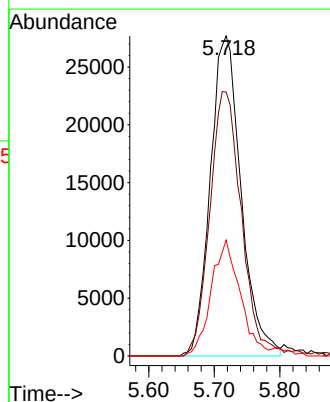
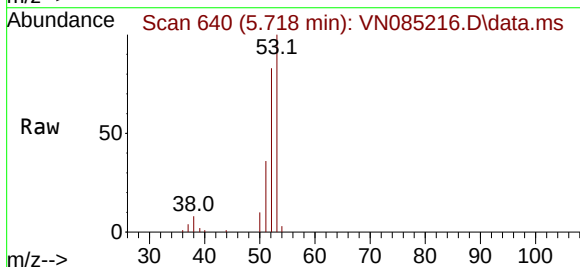
Tgt Ion: 53 Resp: 90277

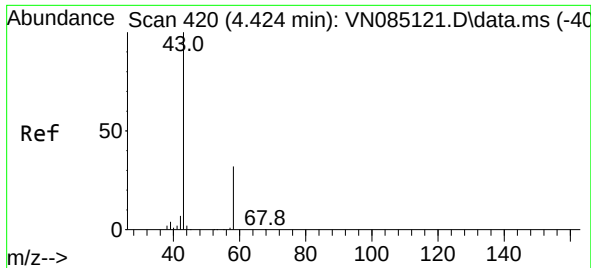
Ion Ratio Lower Upper

53 100

52 84.4 42.9 128.5

51 34.1 17.2 51.5





#15

Acetone

Concen: 118.123 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

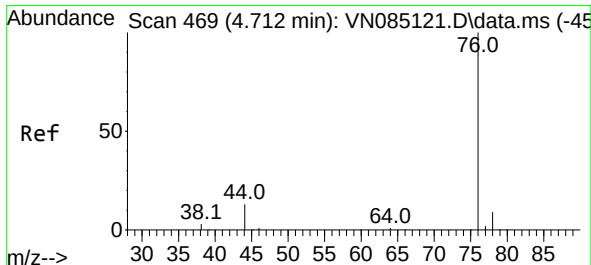
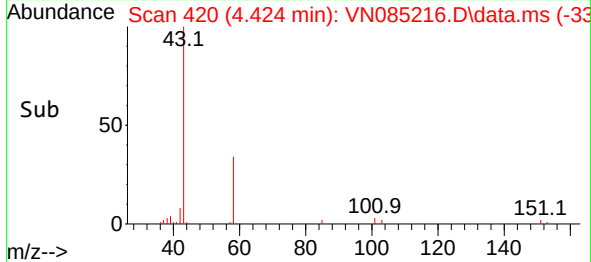
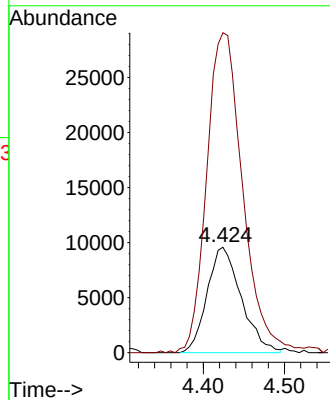
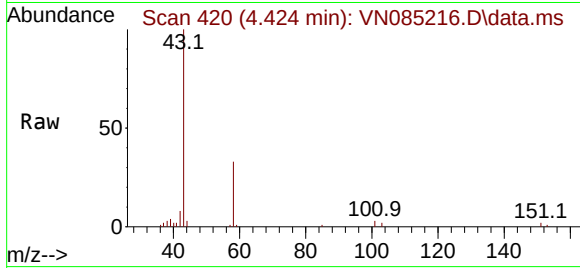
VSTDCCC020EC

Tgt Ion: 58 Resp: 28037

Ion Ratio Lower Upper

58 100

43 299.4 242.3 363.5



#16

Carbon Disulfide

Concen: 19.886 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN085216.D

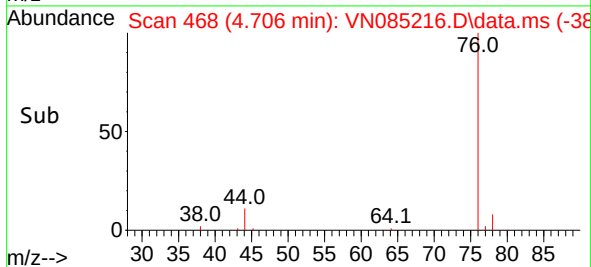
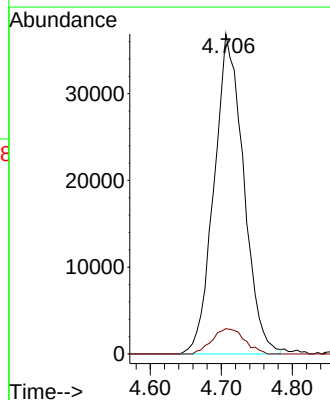
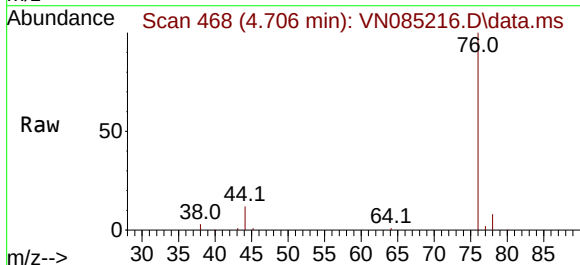
Acq: 16 Dec 2024 16:33

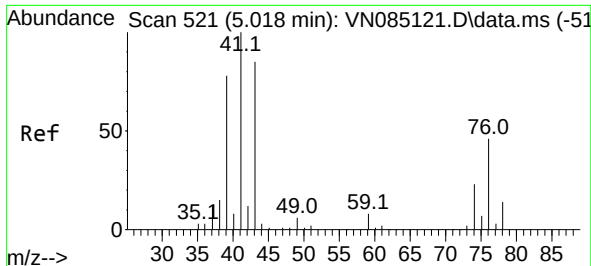
Tgt Ion: 76 Resp: 106280

Ion Ratio Lower Upper

76 100

78 7.9 7.1 10.7





#17

Allyl chloride

Concen: 19.485 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

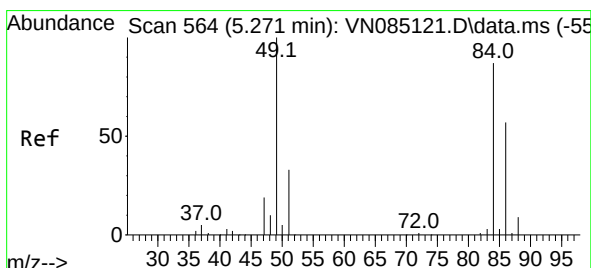
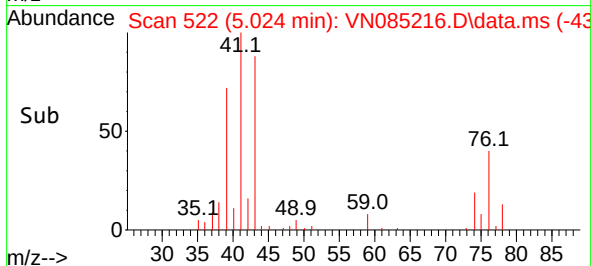
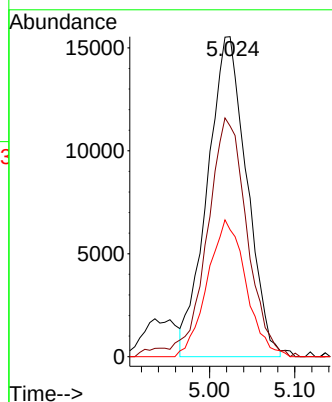
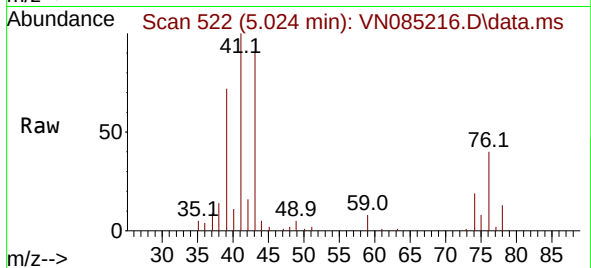
Tgt Ion: 41 Resp: 49851

Ion Ratio Lower Upper

41 100

39 71.4 32.0 96.2

76 38.5 20.2 60.5



#18

Methylene Chloride

Concen: 19.149 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Tgt Ion: 84 Resp: 38850

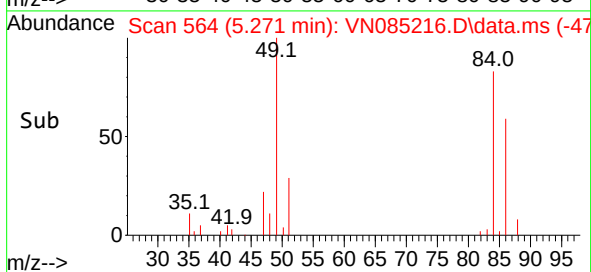
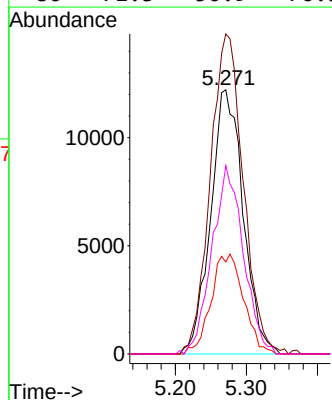
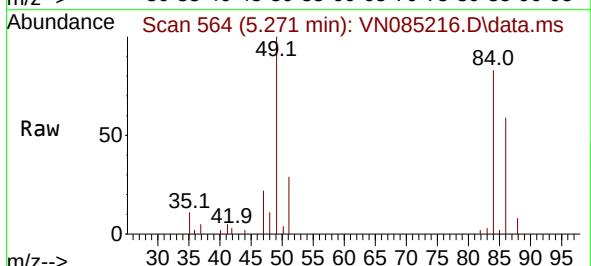
Ion Ratio Lower Upper

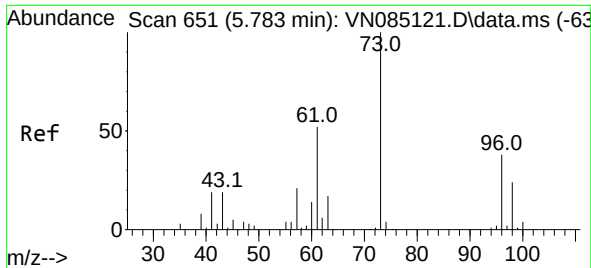
84 100

49 121.1 95.1 142.7

51 34.8 27.4 41.0

86 71.3 50.9 76.3

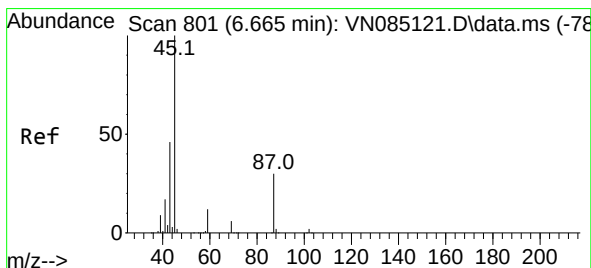
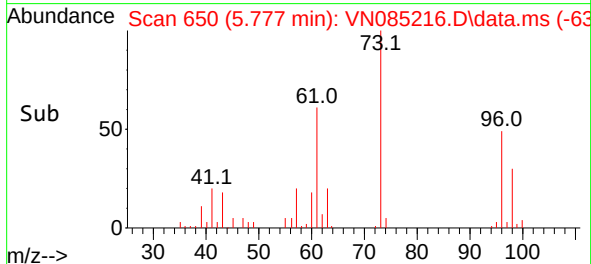
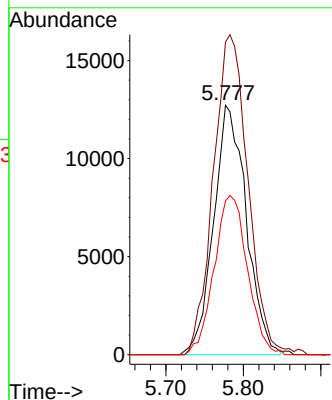
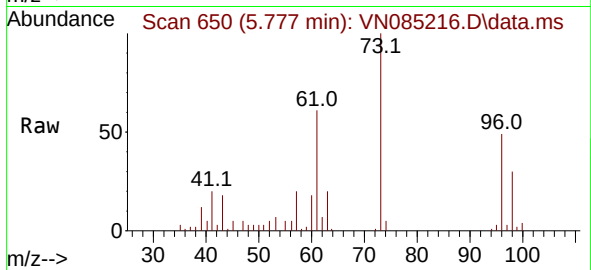




#19
trans-1,2-Dichloroethene
Concen: 20.087 ug/l
RT: 5.777 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

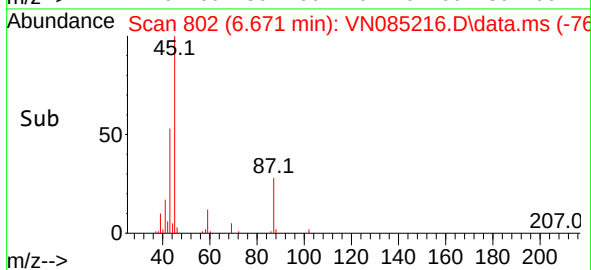
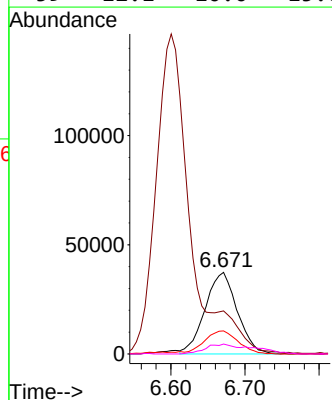
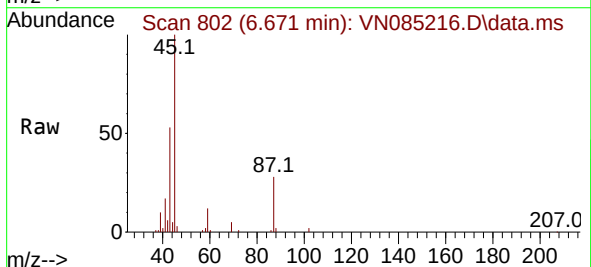
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

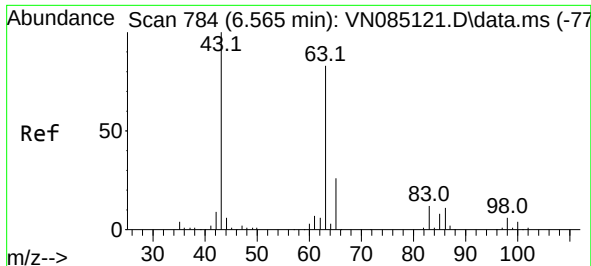
Tgt Ion: 96 Resp: 37332
Ion Ratio Lower Upper
96 100
61 125.4 100.4 150.6
98 61.6 52.6 79.0



#20
Diisopropyl ether
Concen: 20.042 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 45 Resp: 112534
Ion Ratio Lower Upper
45 100
43 51.2 41.9 62.9
87 28.2 24.1 36.1
59 12.1 10.0 15.0

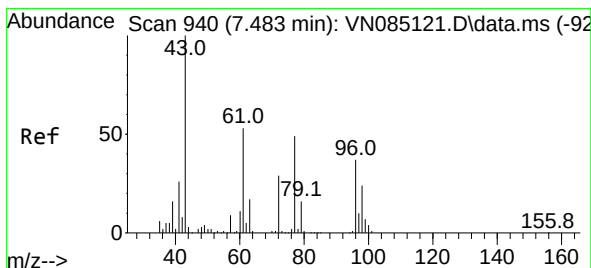
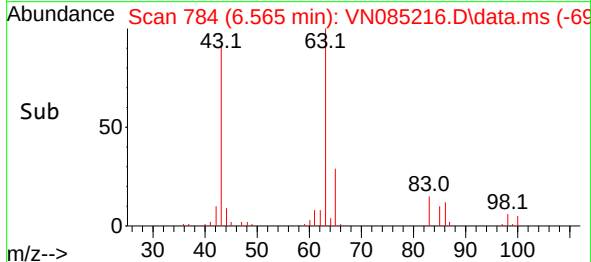
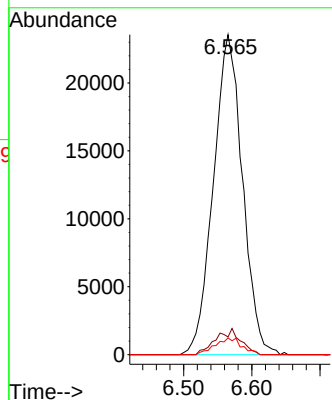
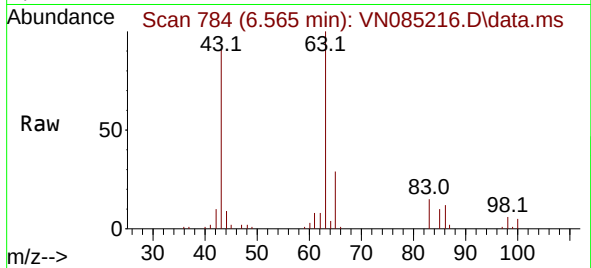




#21
1,1-Dichloroethane
Concen: 20.181 ug/l
RT: 6.565 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

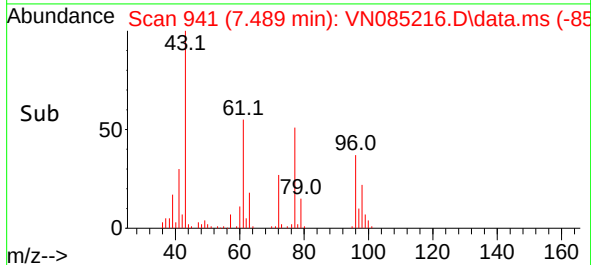
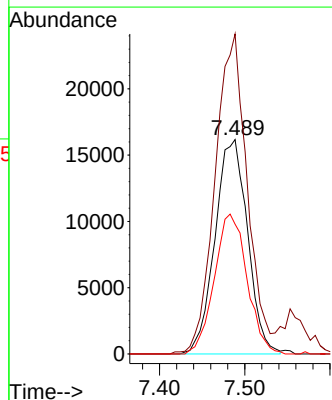
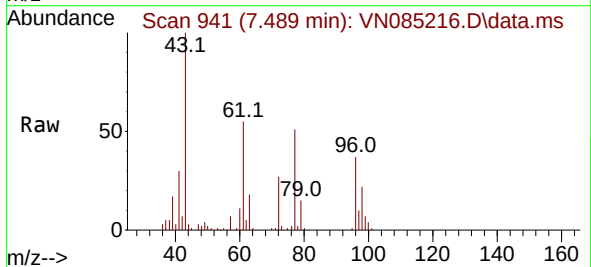
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

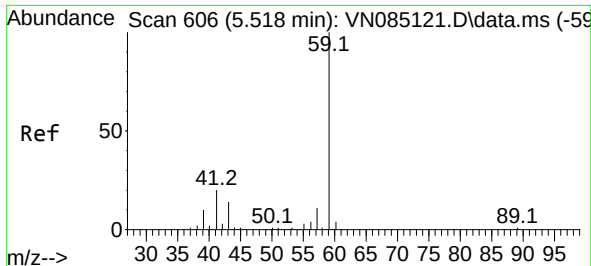
Tgt Ion: 63 Resp: 69939
Ion Ratio Lower Upper
63 100
98 5.5 3.5 10.4
100 5.3 1.6 4.8#



#22
cis-1,2-Dichloroethene
Concen: 20.118 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 96 Resp: 42975
Ion Ratio Lower Upper
96 100
61 146.1 115.9 173.9
98 65.5 51.8 77.8

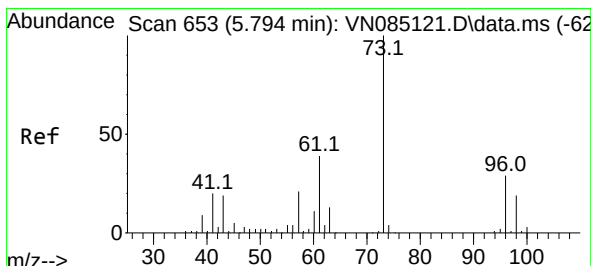
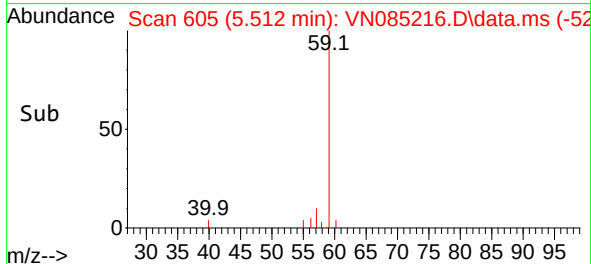
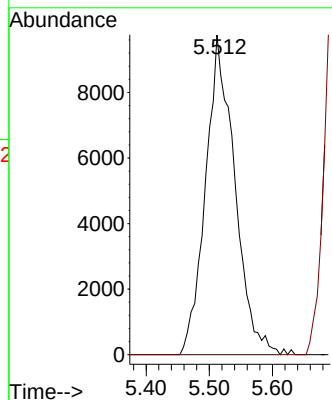
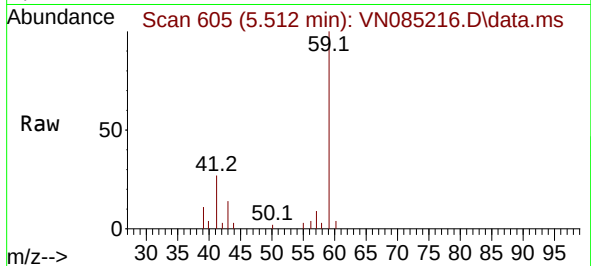




#23
tert-Butyl Alcohol
Concen: 99.351 ug/l
RT: 5.512 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

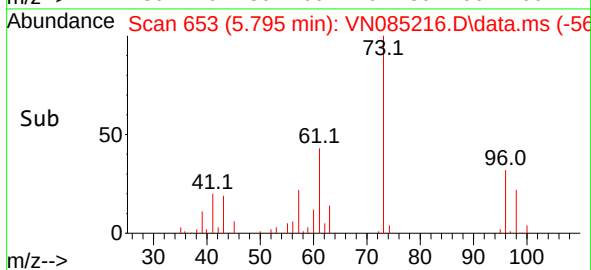
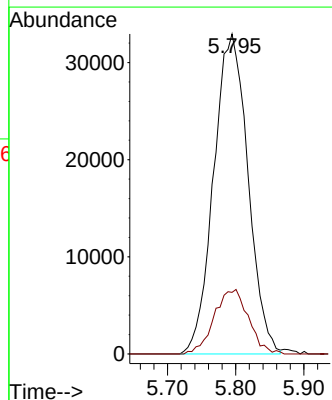
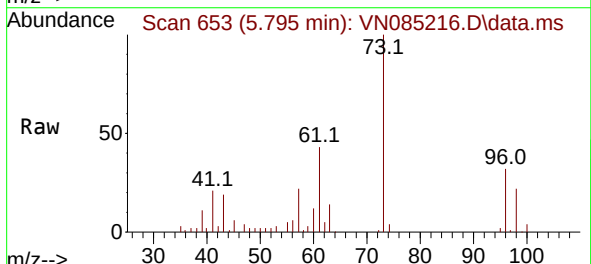
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

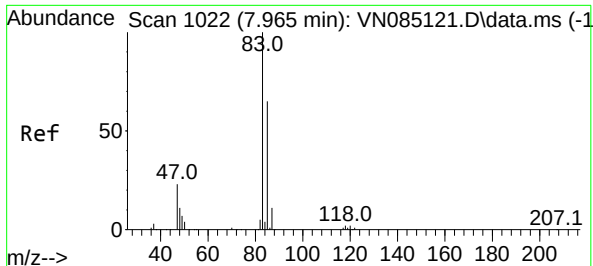
Tgt Ion: 59 Resp: 31217
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 20.646 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 73 Resp: 115332
Ion Ratio Lower Upper
73 100
43 20.0 8.7 13.1#





#25

Chloroform

Concen: 20.586 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

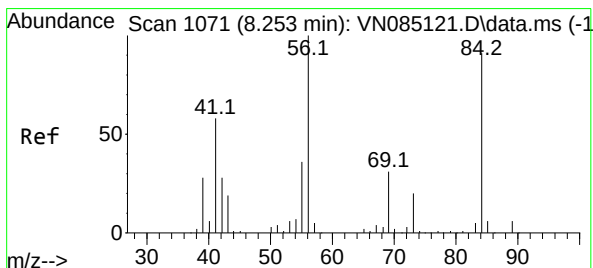
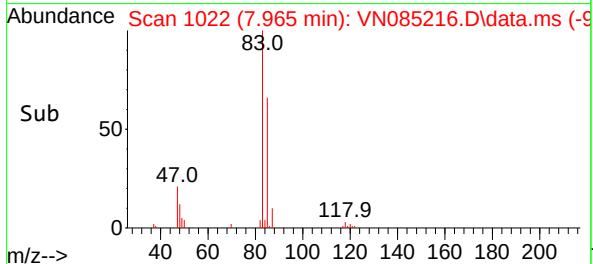
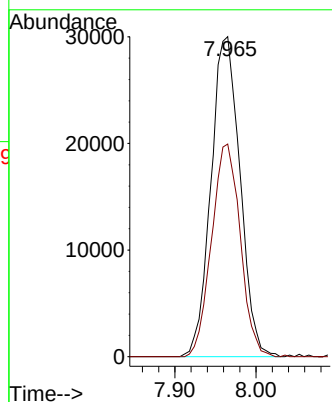
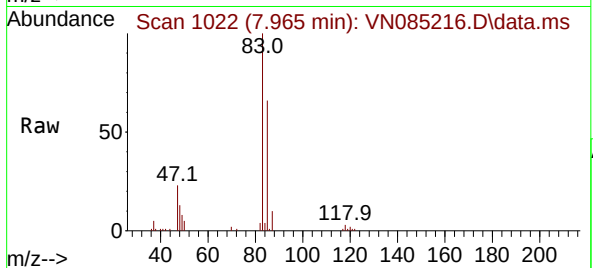
VSTDCCC020EC

Tgt Ion: 83 Resp: 74737

Ion Ratio Lower Upper

83 100

85 66.4 49.4 74.0



#26

Cyclohexane

Concen: 19.513 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

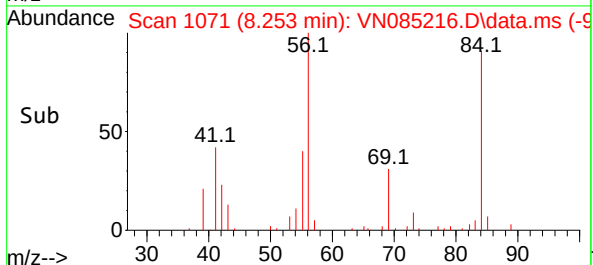
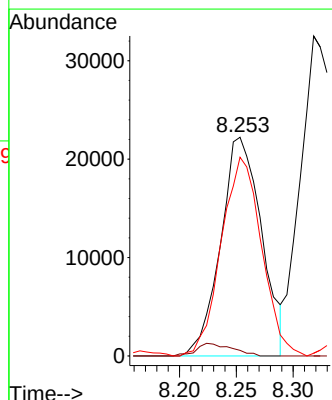
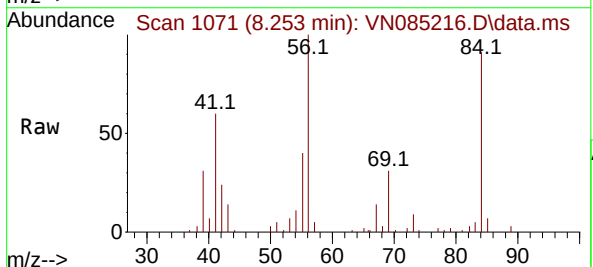
Tgt Ion: 56 Resp: 55678

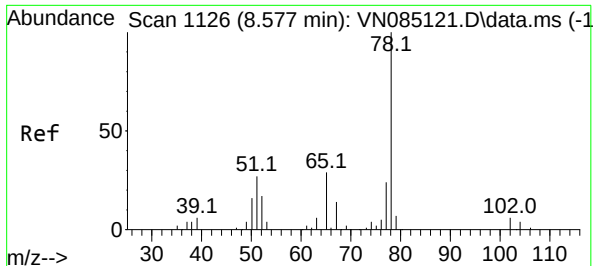
Ion Ratio Lower Upper

56 100

89 4.8 19.5 29.3#

84 89.5 70.6 105.8





#27

1,2-Dichloroethane-d4

Concen: 30.486 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

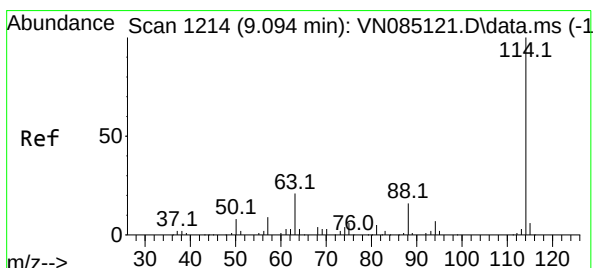
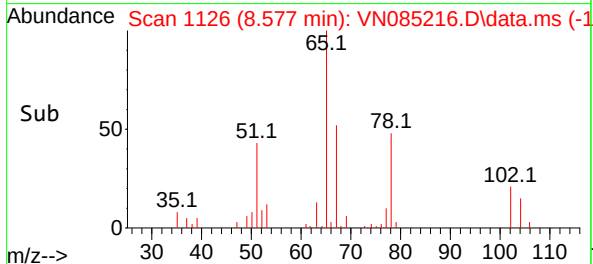
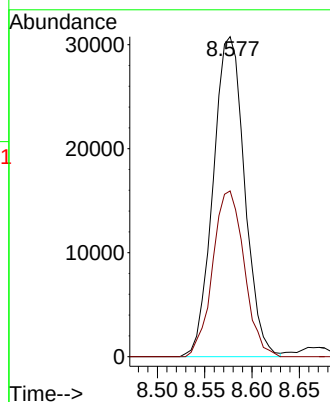
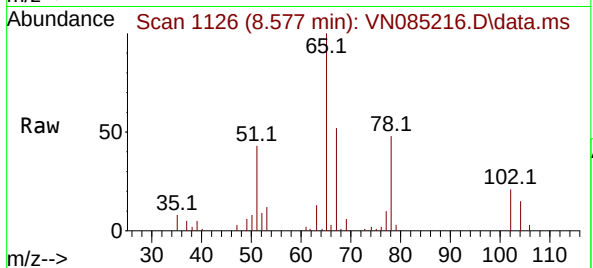
VSTDCCC020EC

Tgt Ion: 65 Resp: 71020

Ion Ratio Lower Upper

65 100

67 51.9 39.9 59.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

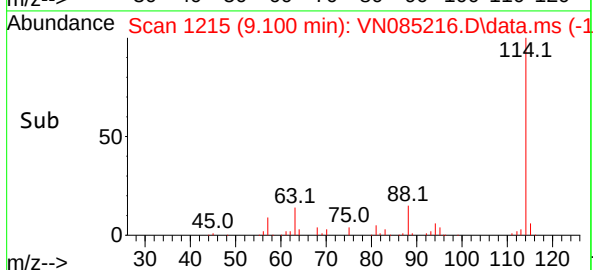
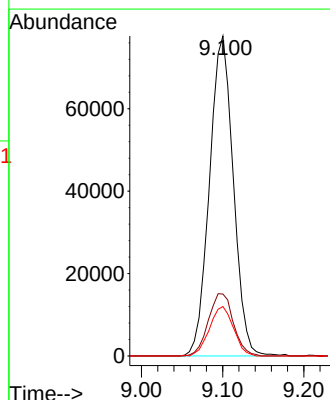
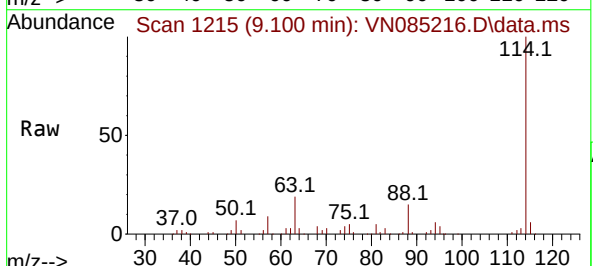
Tgt Ion: 114 Resp: 158547

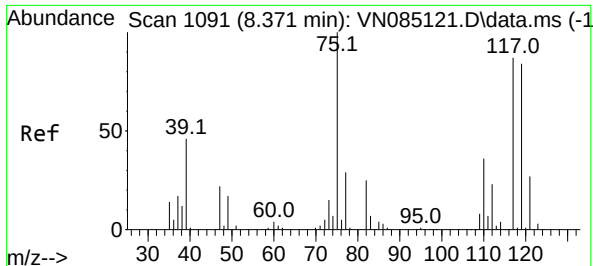
Ion Ratio Lower Upper

114 100

63 20.4 16.2 24.2

88 15.6 12.5 18.7

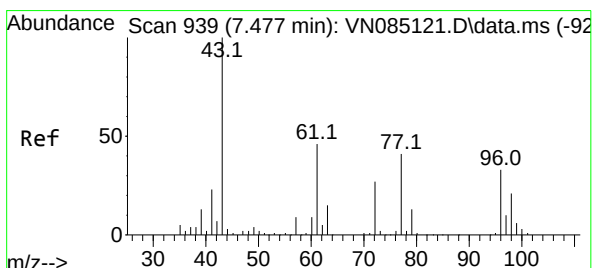
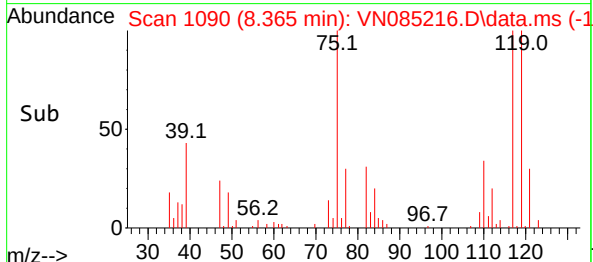
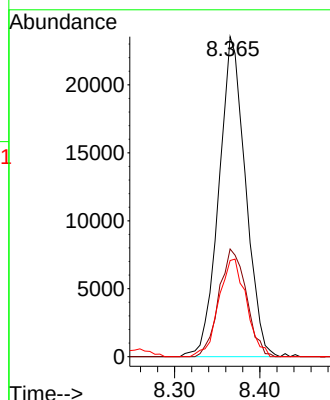
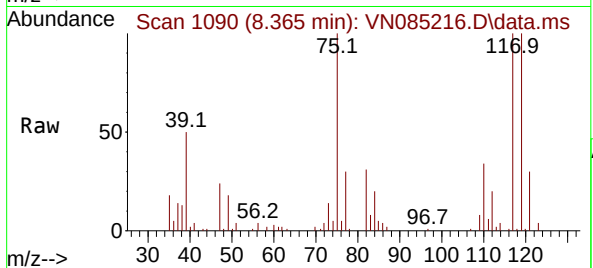




#29
1,1-Dichloropropene
Concen: 19.952 ug/l
RT: 8.365 min Scan# 110
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

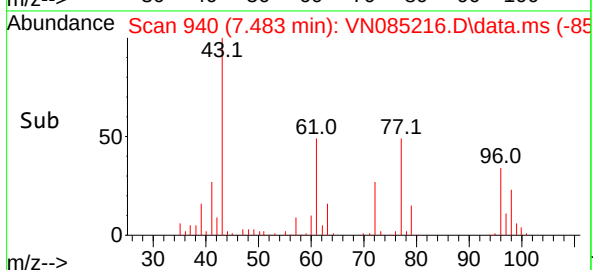
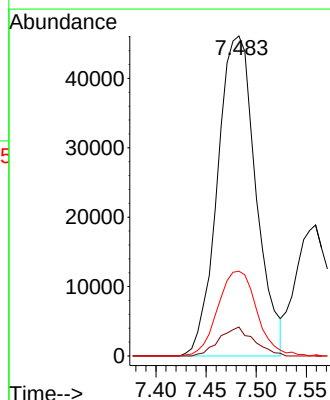
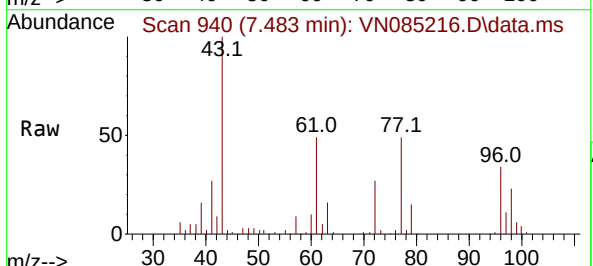
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

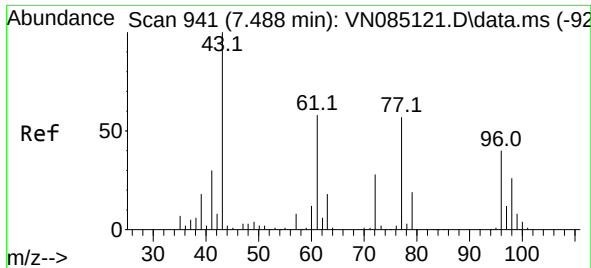
Tgt Ion: 75 Resp: 51044
Ion Ratio Lower Upper
75 100
110 34.7 0.0 71.6
77 31.7 0.0 62.2



#30
2-Butanone
Concen: 104.700 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 43 Resp: 122922
Ion Ratio Lower Upper
43 100
57 8.2 6.9 10.3
72 26.9 21.8 32.8

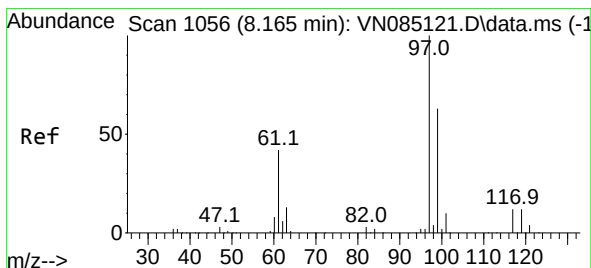
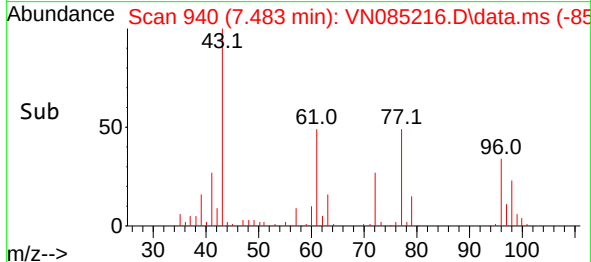
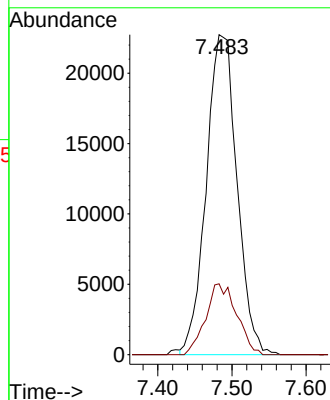
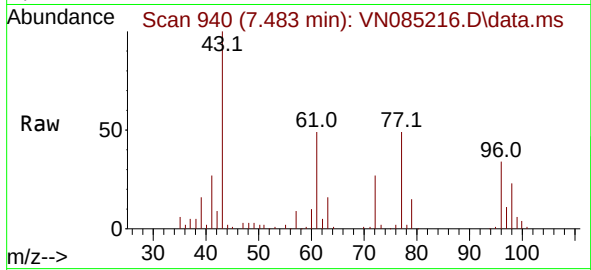




#31
2,2-Dichloropropane
Concen: 20.016 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

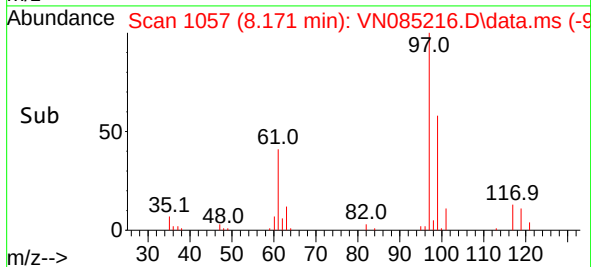
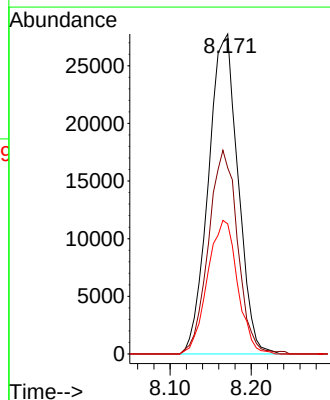
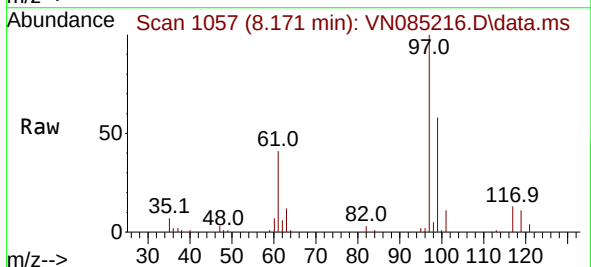
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

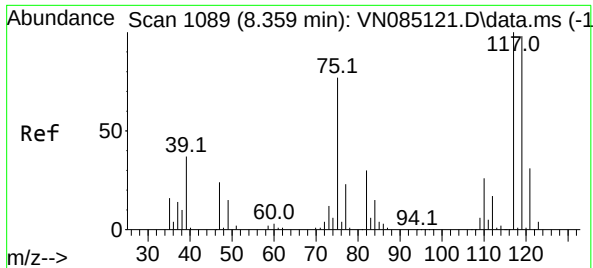
Tgt Ion: 77 Resp: 65668
Ion Ratio Lower Upper
77 100
97 22.2 0.0 0.0#



#32
1,1,1-Trichloroethane
Concen: 20.352 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 97 Resp: 70477
Ion Ratio Lower Upper
97 100
99 62.4 50.8 76.2
61 42.3 32.7 49.1

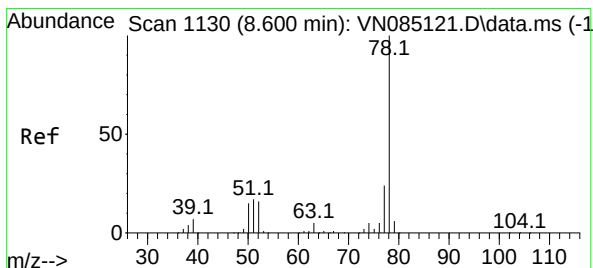
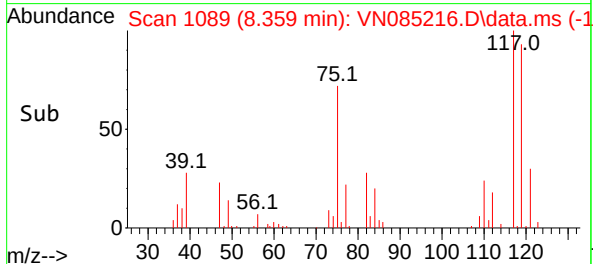
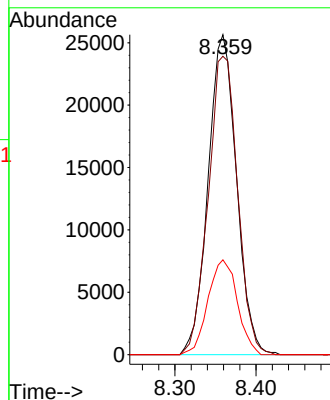
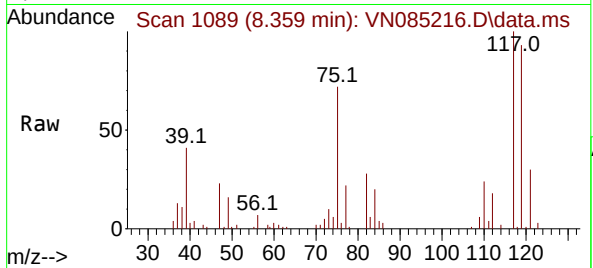




#33
Carbon Tetrachloride
Concen: 19.971 ug/l
RT: 8.359 min Scan# 1108
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

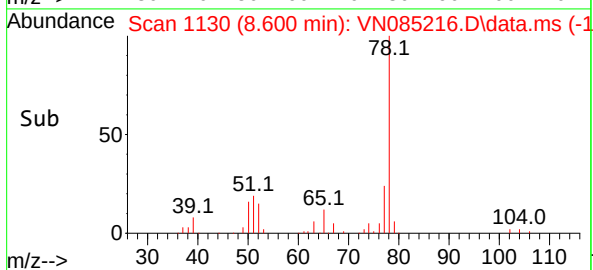
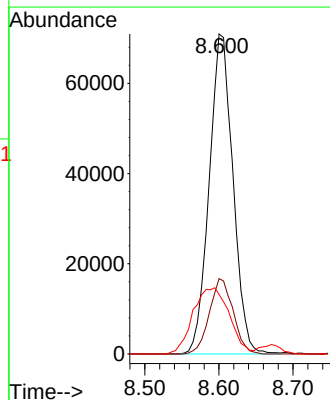
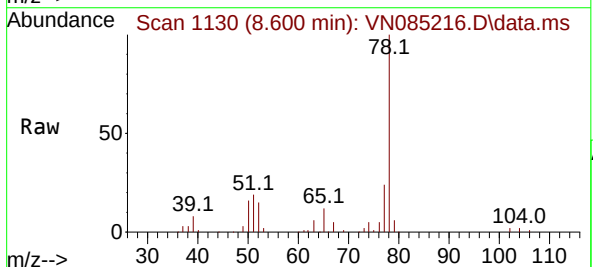
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

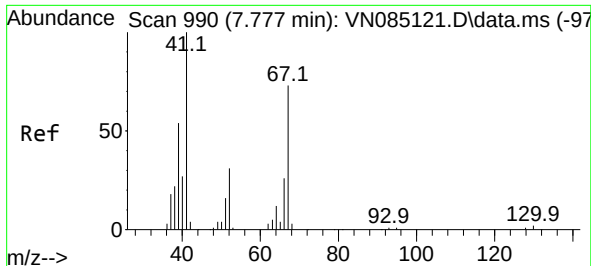
Tgt Ion:117 Resp: 62403
Ion Ratio Lower Upper
117 100
119 93.2 81.6 122.4
121 29.7 26.5 39.7



#34
Benzene
Concen: 19.668 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 78 Resp: 158070
Ion Ratio Lower Upper
78 100
77 23.6 18.0 27.0
51 16.7 12.4 18.6



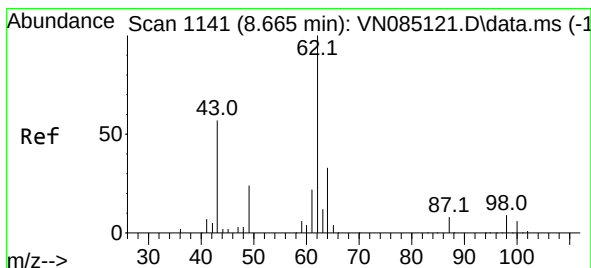
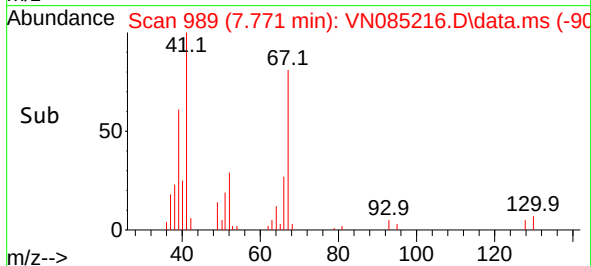
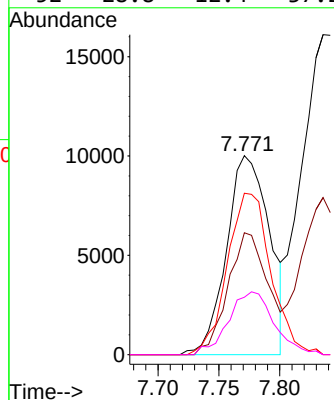
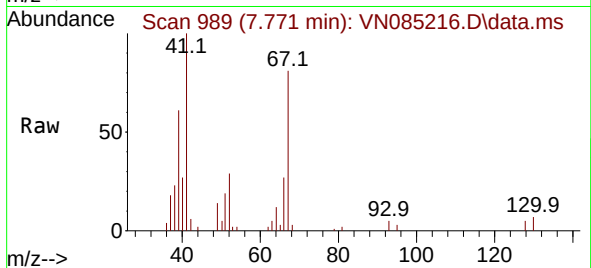


#35
Methacrylonitrile
Concen: 18.649 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 41 Resp: 24639

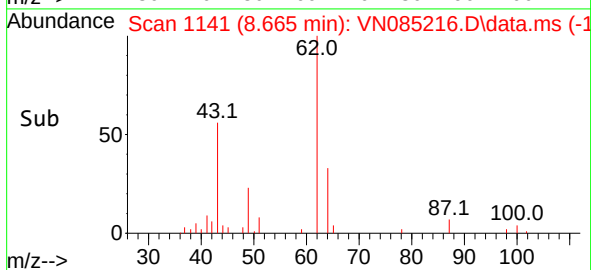
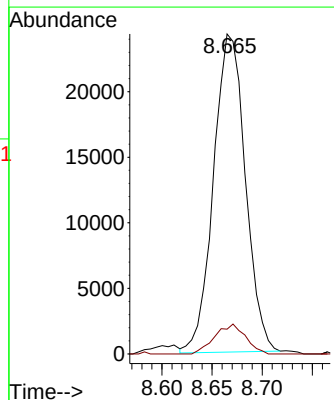
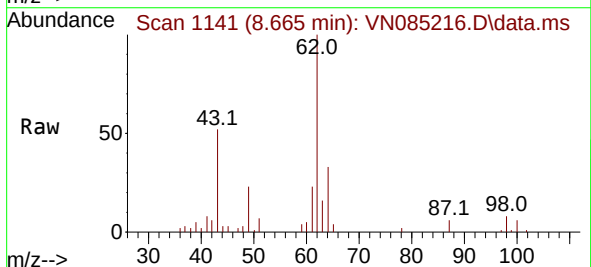
Ion	Ratio	Lower	Upper
41	100		
39	61.3	24.4	73.2
67	81.1	37.0	110.9
52	28.8	12.4	37.2

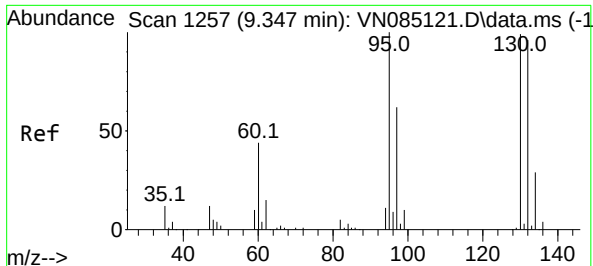


#36
1,2-Dichloroethane
Concen: 19.608 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 62 Resp: 53647

Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.3	10.9

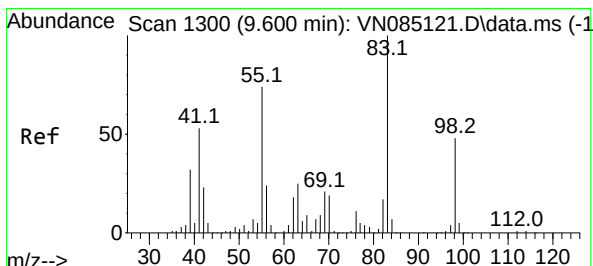
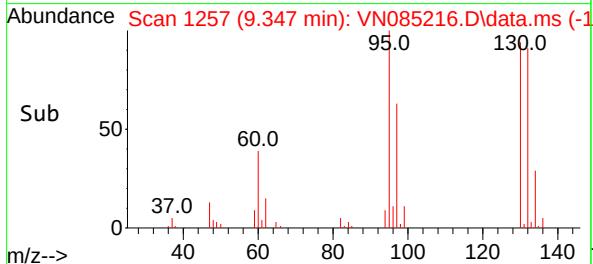
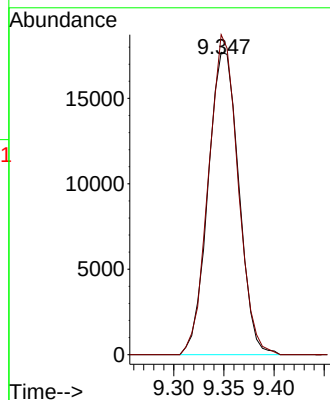
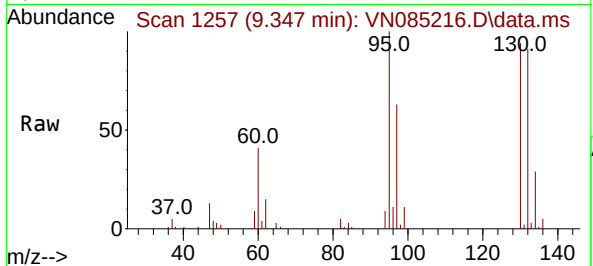




#37
Trichloroethene
Concen: 19.715 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

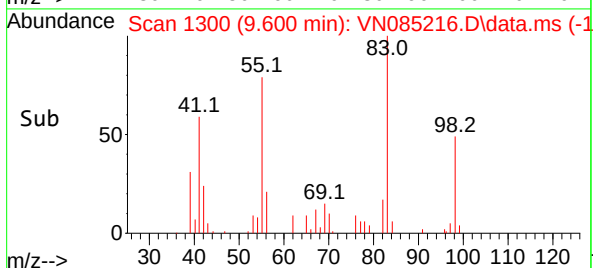
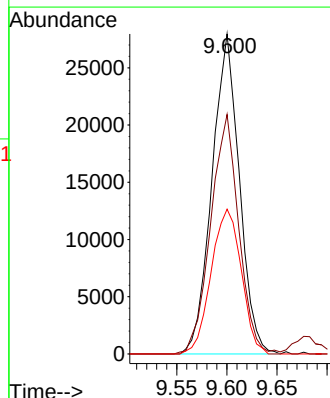
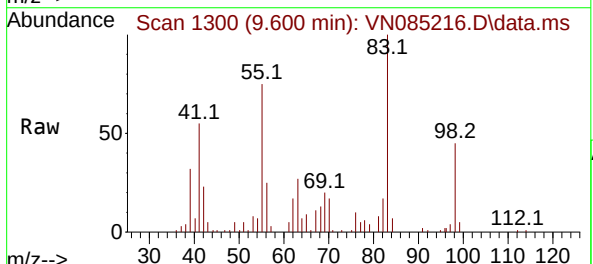
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

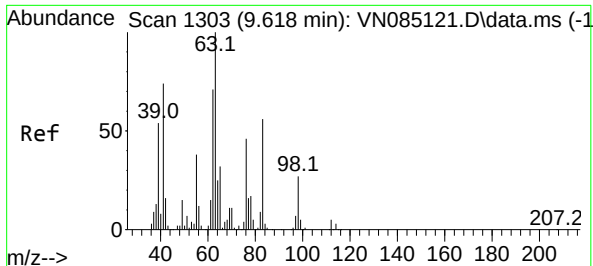
Tgt Ion:130 Resp: 37732
Ion Ratio Lower Upper
130 100
95 105.8 76.2 114.4



#38
Methylcyclohexane
Concen: 19.104 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 83 Resp: 53143
Ion Ratio Lower Upper
83 100
55 76.7 41.4 124.4
98 49.8 25.7 77.1





#39

1,2-Dichloropropane

Concen: 19.424 ug/l

RT: 9.618 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

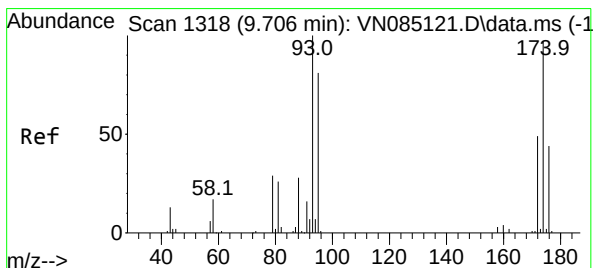
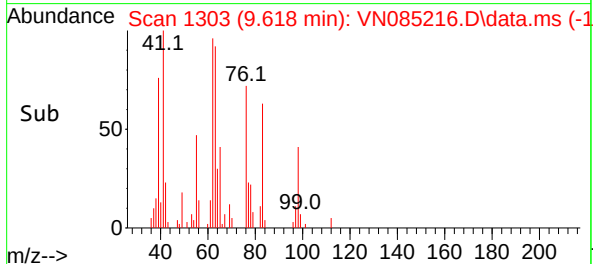
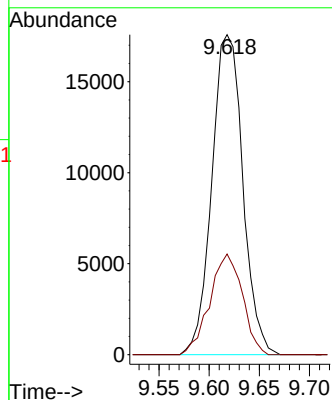
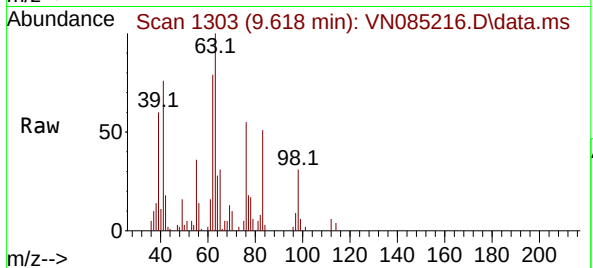
VSTDCCC020EC

Tgt Ion: 63 Resp: 37813

Ion Ratio Lower Upper

63 100

65 31.5 23.4 35.0



#40

Dibromomethane

Concen: 20.246 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

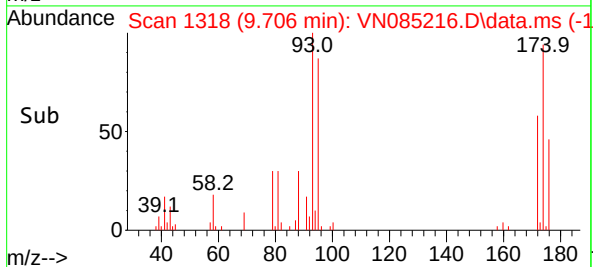
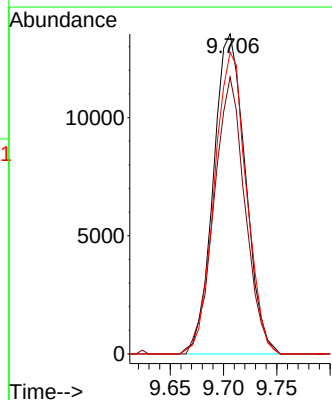
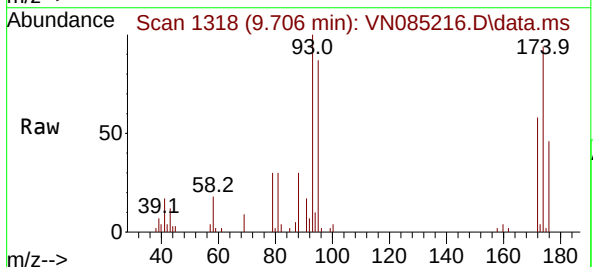
Tgt Ion: 93 Resp: 28271

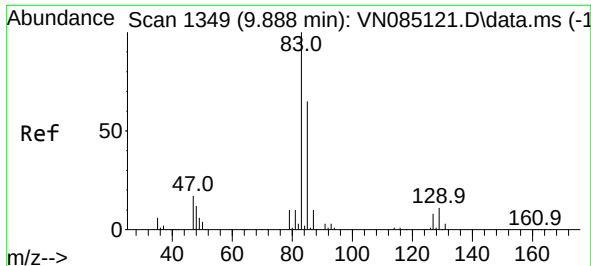
Ion Ratio Lower Upper

93 100

95 83.3 0.0 169.4

174 94.1 0.0 189.8

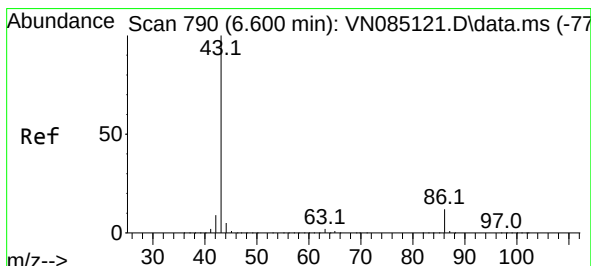
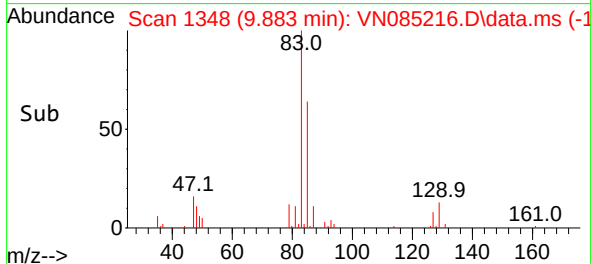
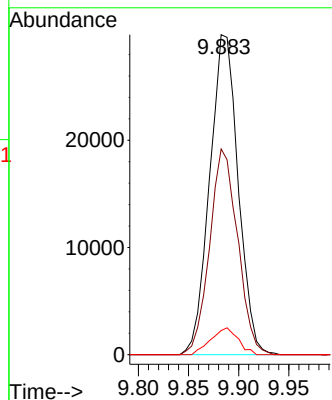
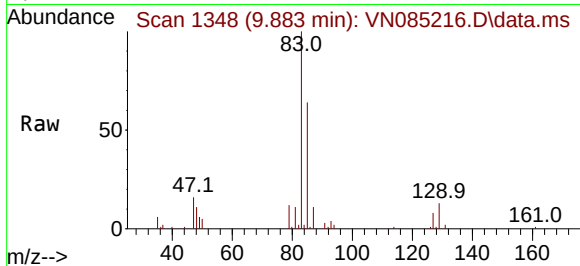




#41
Bromodichloromethane
Concen: 19.780 ug/l
RT: 9.883 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

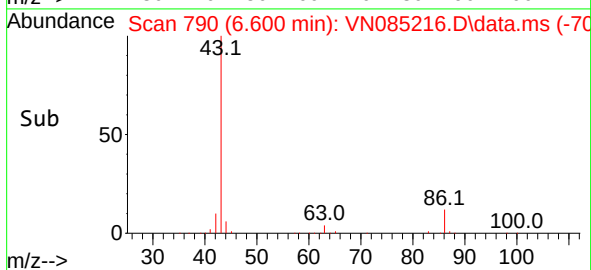
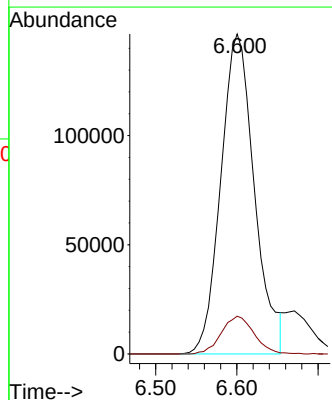
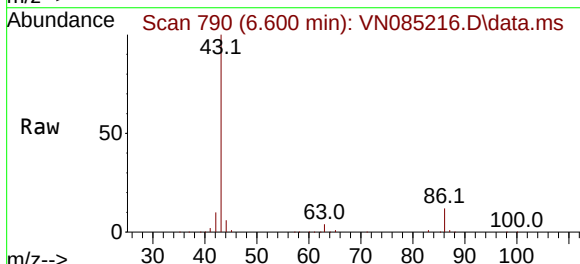
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

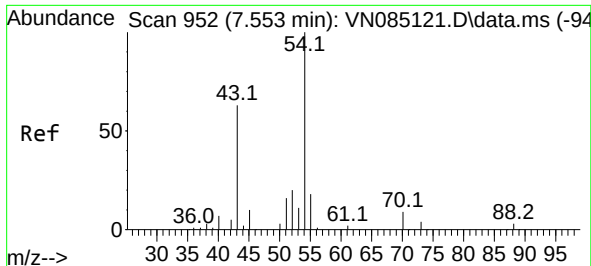
Tgt Ion: 83 Resp: 59043
Ion Ratio Lower Upper
83 100
85 64.3 54.6 81.8
127 7.5 7.0 10.6



#42
Vinyl Acetate
Concen: 102.535 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 43 Resp: 421239
Ion Ratio Lower Upper
43 100
86 11.5 9.2 13.8

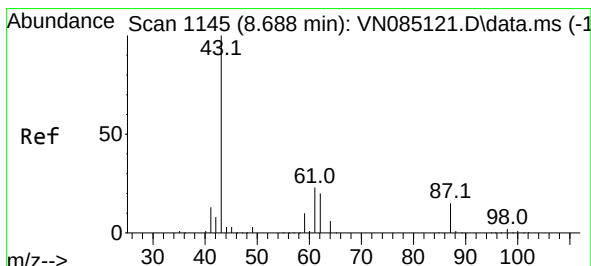
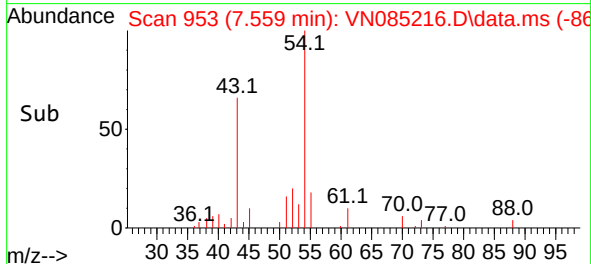
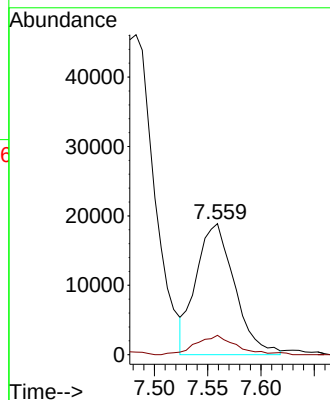
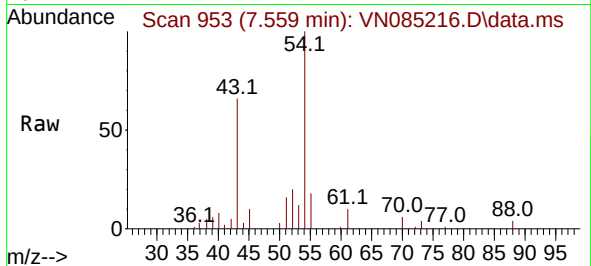




#43
Ethyl Acetate
Concen: 20.300 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

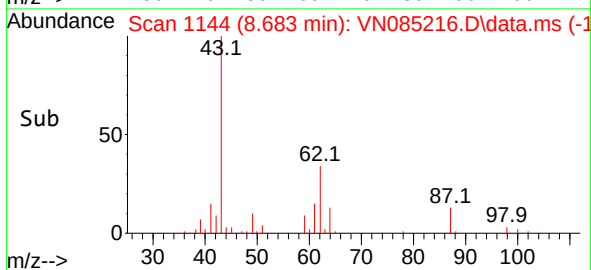
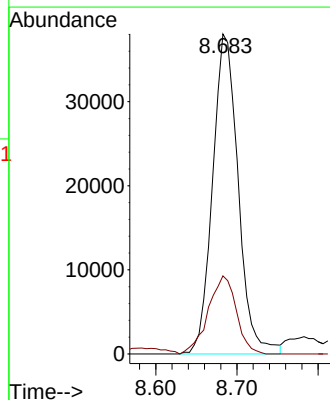
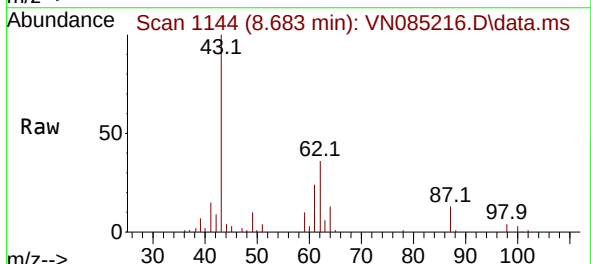
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

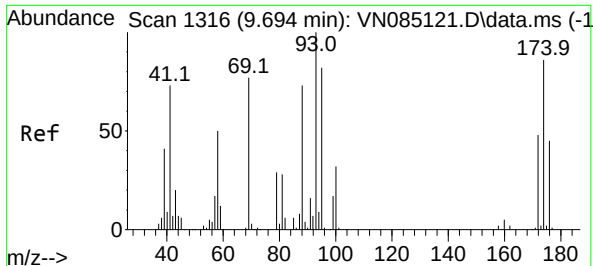
Tgt Ion: 43 Resp: 47420
Ion Ratio Lower Upper
43 100
45 14.9 13.3 19.9



#44
Isopropyl Acetate
Concen: 20.553 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 43 Resp: 83434
Ion Ratio Lower Upper
43 100
61 26.7 21.5 32.3





#45

1,4-Dioxane

Concen: 410.991 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

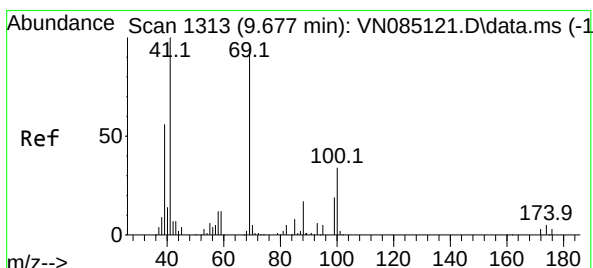
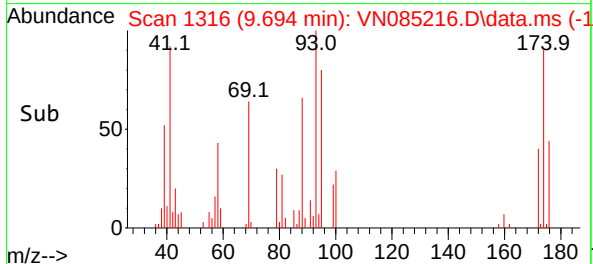
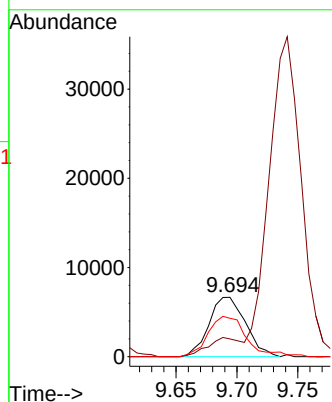
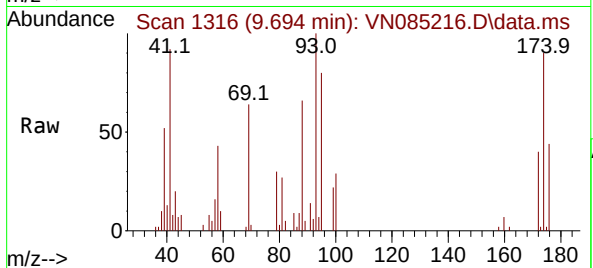
Tgt Ion: 88 Resp: 13913

Ion Ratio Lower Upper

88 100

43 30.1 21.7 32.5

58 68.9 52.6 79.0



#46

Methyl methacrylate

Concen: 20.757 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.006 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

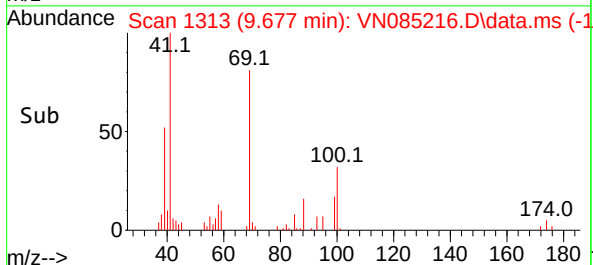
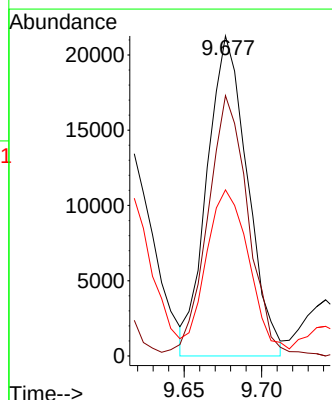
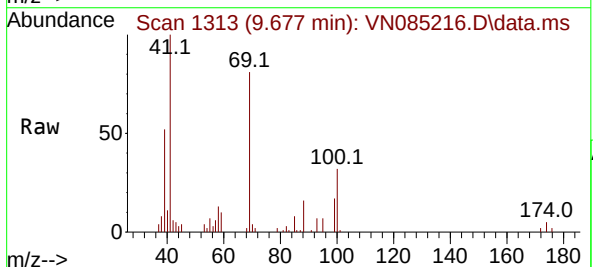
Tgt Ion: 41 Resp: 38564

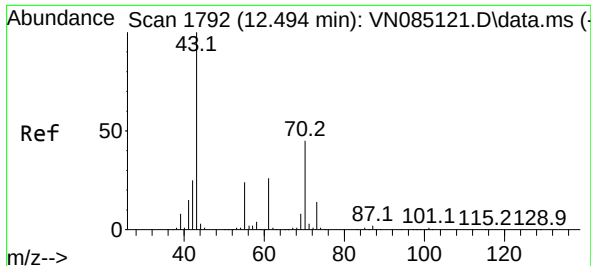
Ion Ratio Lower Upper

41 100

69 82.4 46.7 140.0

39 49.9 28.5 85.5

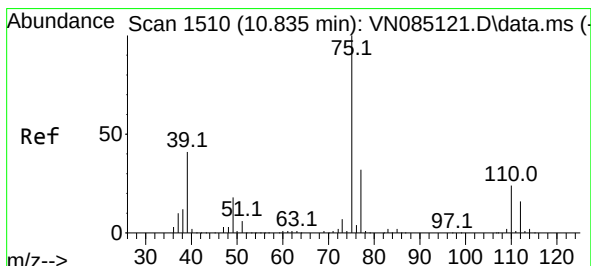
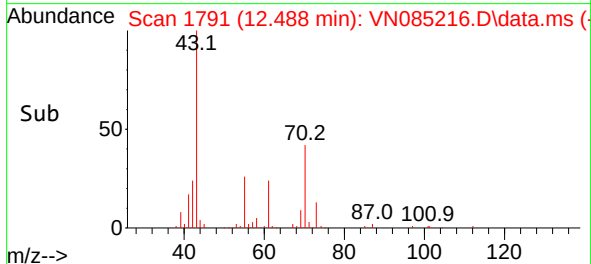
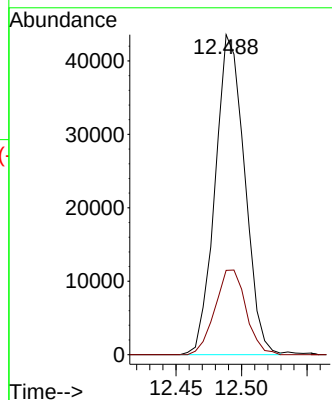
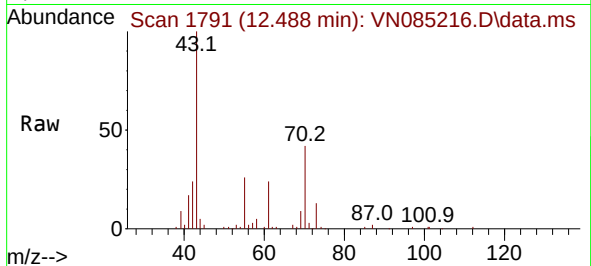




#47
n-amy1 Acetate
Concen: 19.928 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

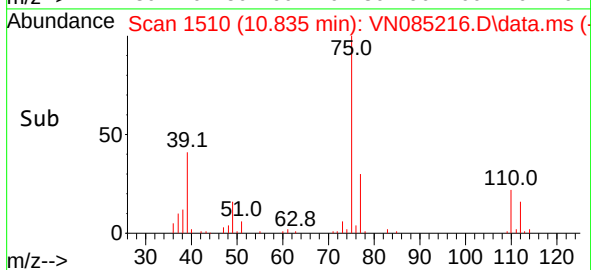
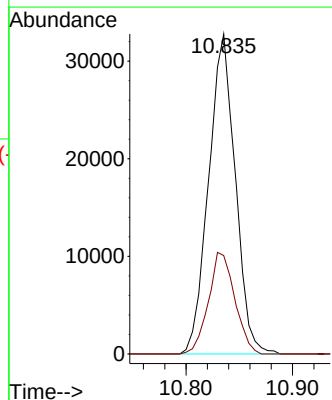
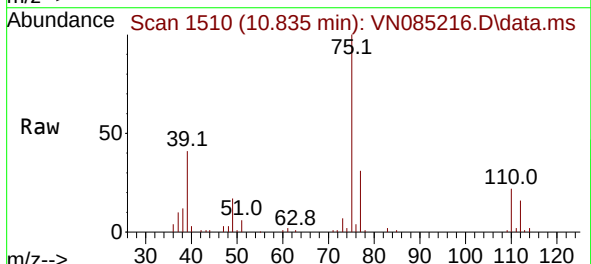
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

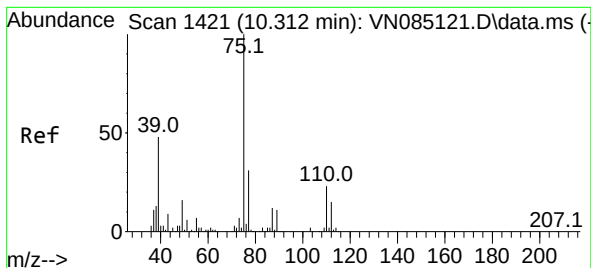
Tgt Ion: 43 Resp: 68064
Ion Ratio Lower Upper
43 100
55 27.8 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 19.447 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 75 Resp: 56984
Ion Ratio Lower Upper
75 100
77 30.8 25.5 38.3

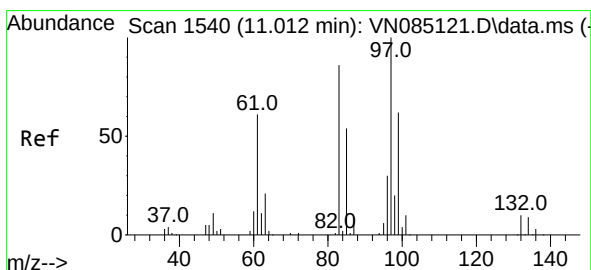
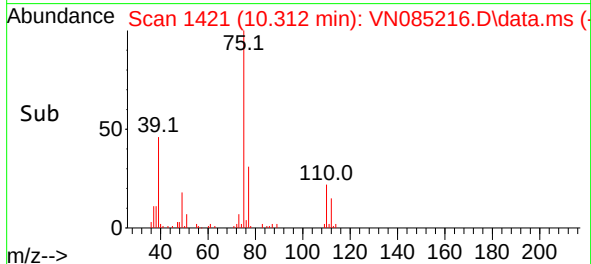
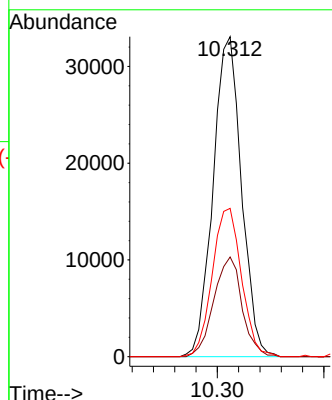
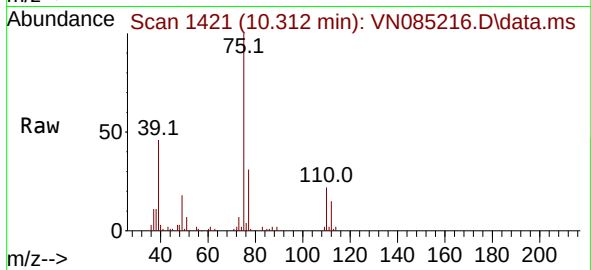




#49
 cis-1,3-Dichloropropene
 Concen: 19.185 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

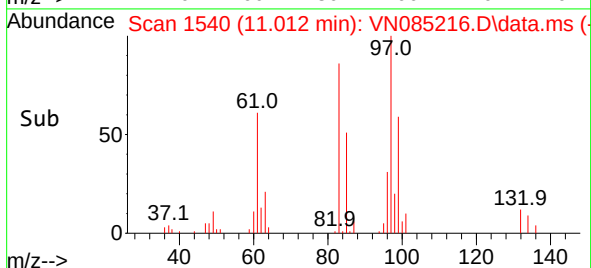
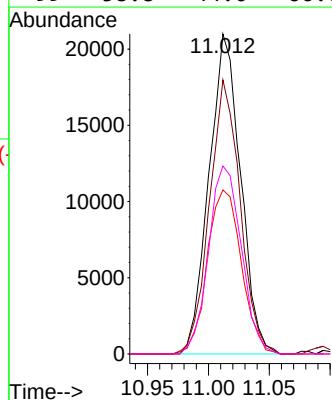
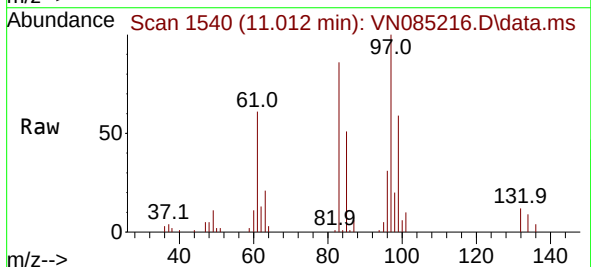
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

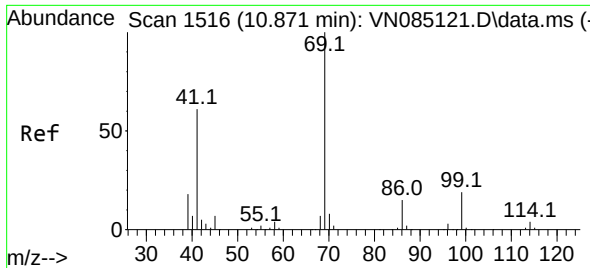
Tgt Ion:	75	Resp:	61200
Ion	Ratio	Lower	Upper
75	100		
77	31.1	23.8	35.6
39	46.4	37.3	55.9



#50
 1,1,2-Trichloroethane
 Concen: 20.106 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

Tgt Ion:	97	Resp:	37831
Ion	Ratio	Lower	Upper
97	100		
83	85.7	65.8	98.8
85	51.3	40.8	61.2
99	58.8	44.0	66.0

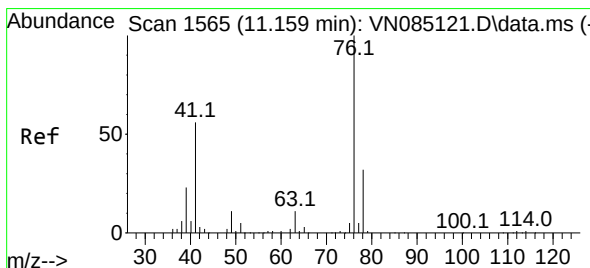
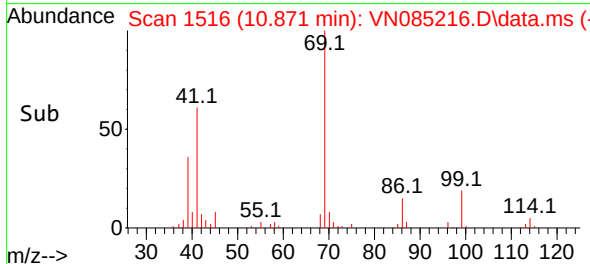
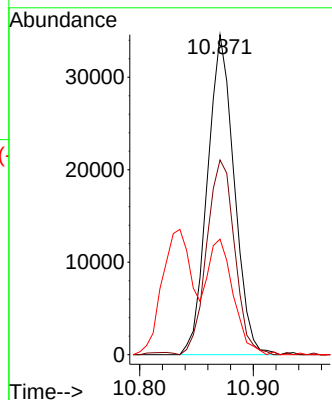
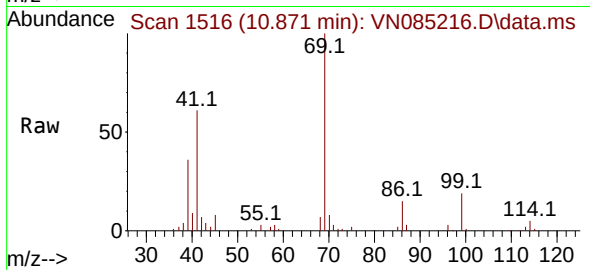




#51
Ethyl methacrylate
Concen: 19.790 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

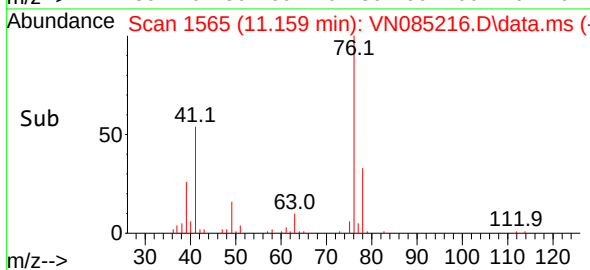
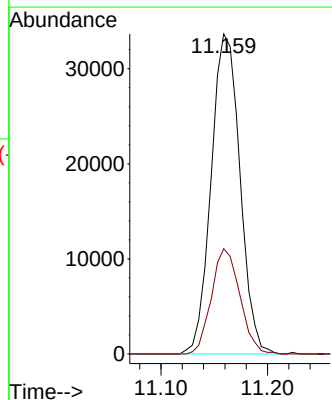
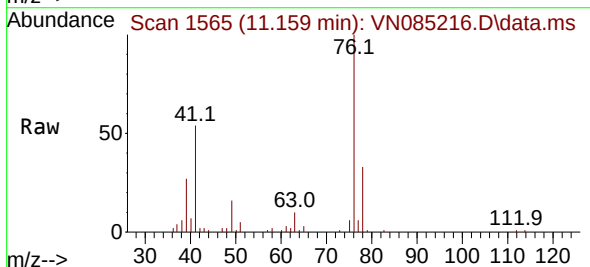
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

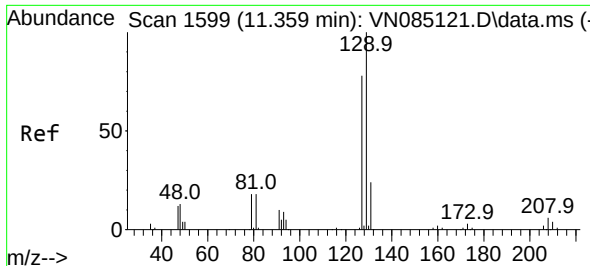
Tgt Ion: 69 Resp: 56637
Ion Ratio Lower Upper
69 100
41 60.8 32.1 96.3
39 36.1 18.8 56.4



#52
1,3-Dichloropropane
Concen: 20.068 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 76 Resp: 63193
Ion Ratio Lower Upper
76 100
78 32.4 0.0 65.6

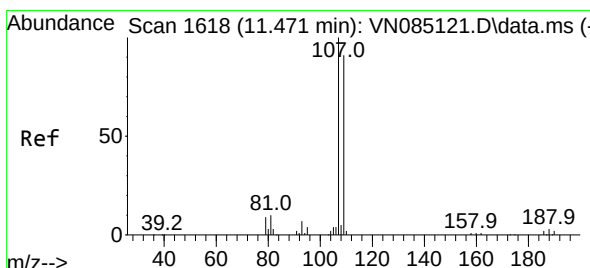
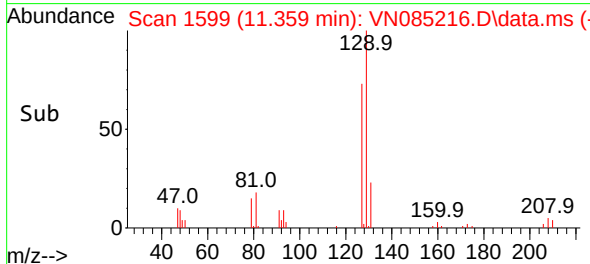
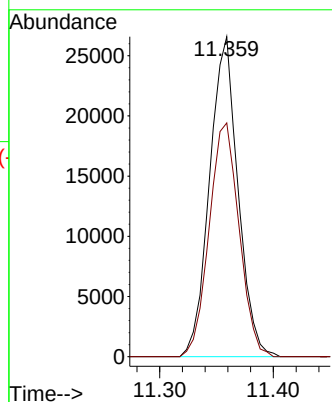
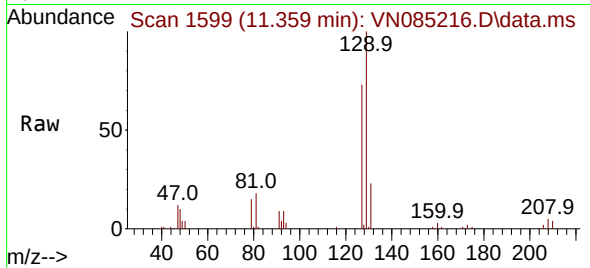




#53
Dibromochloromethane
Concen: 20.142 ug/l
RT: 11.359 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

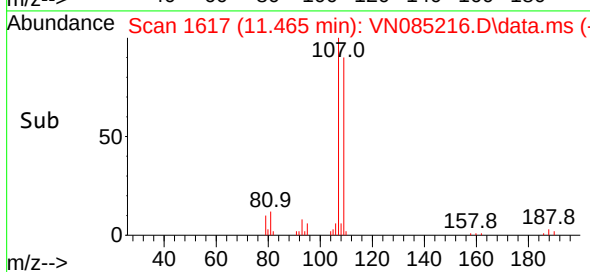
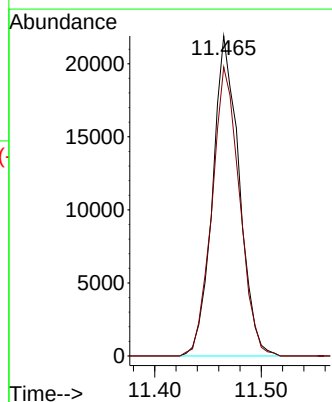
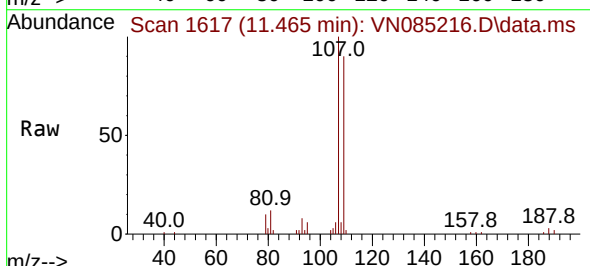
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

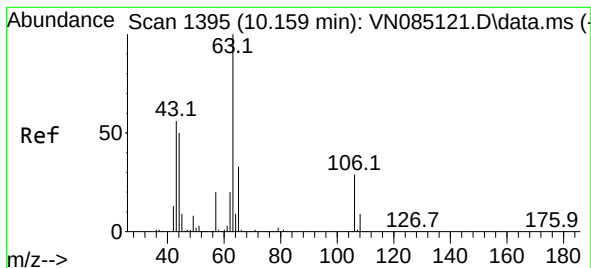
Tgt Ion:129 Resp: 46186
Ion Ratio Lower Upper
129 100
127 76.9 37.3 111.9



#54
1,2-Dibromoethane
Concen: 19.998 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:107 Resp: 37912
Ion Ratio Lower Upper
107 100
109 93.8 75.2 112.8

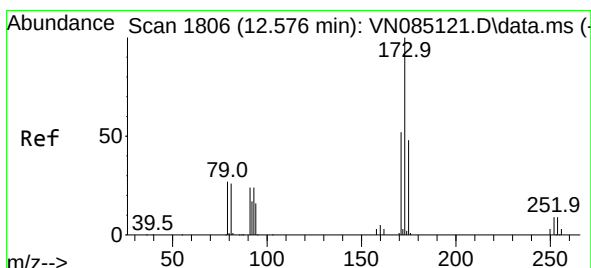
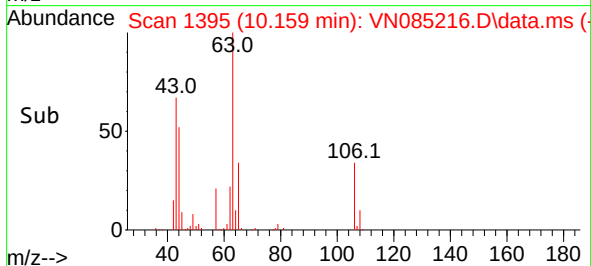
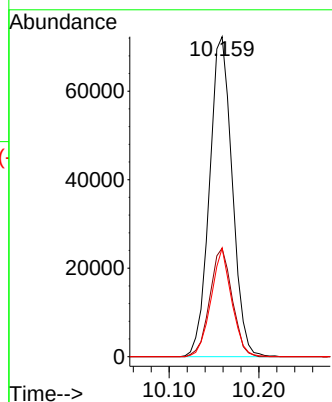
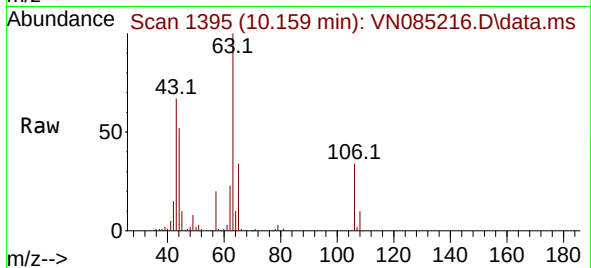




#55
2-Chloroethyl vinyl ether
Concen: 95.632 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

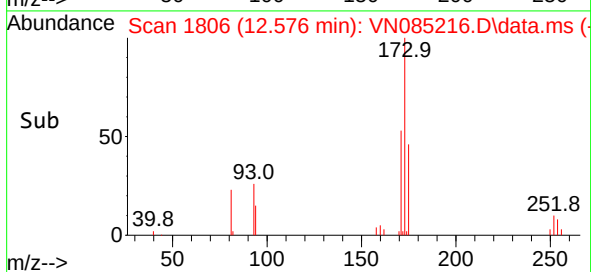
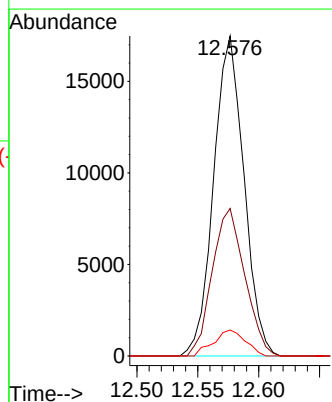
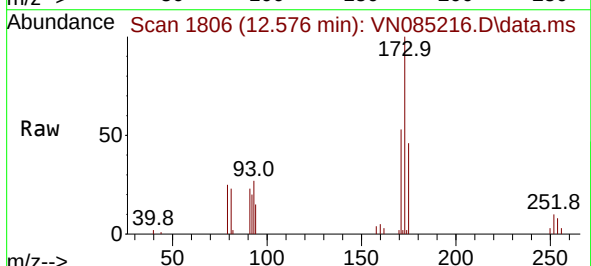
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

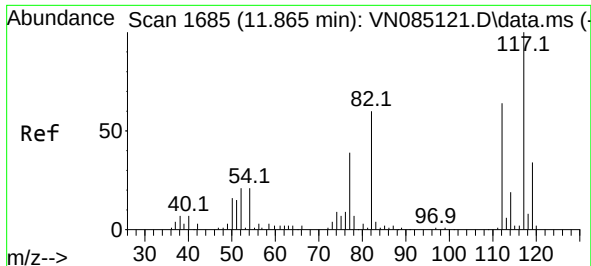
Tgt Ion: 63 Resp: 127137
Ion Ratio Lower Upper
63 100
65 33.3 25.9 38.9
106 30.8 23.5 35.3



#56
Bromoform
Concen: 19.663 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 173 Resp: 30230
Ion Ratio Lower Upper
173 100
175 49.5 40.2 60.2
254 8.5 6.2 9.4

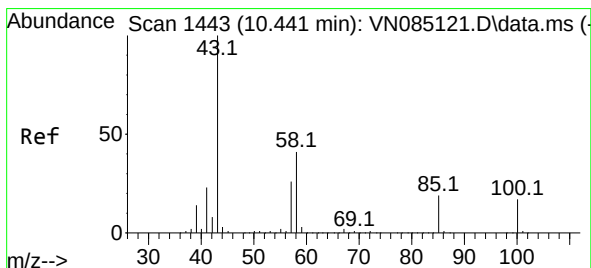
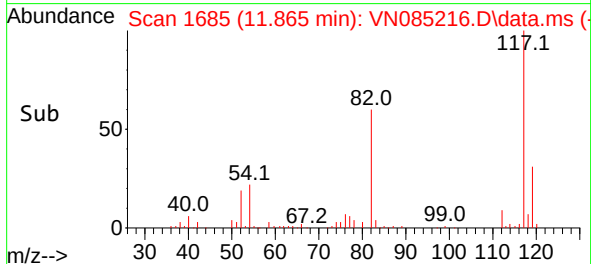
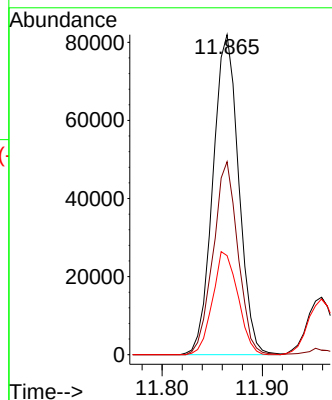
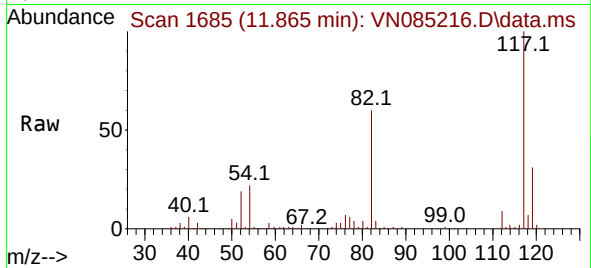




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

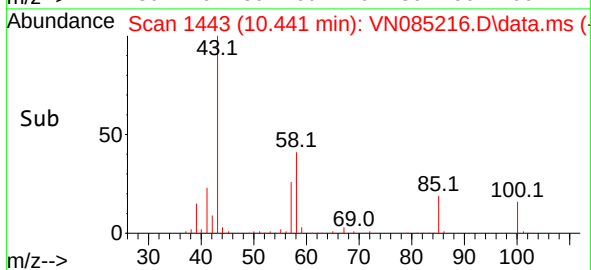
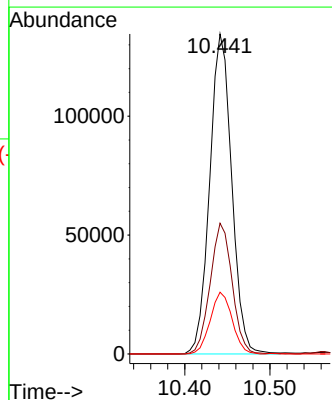
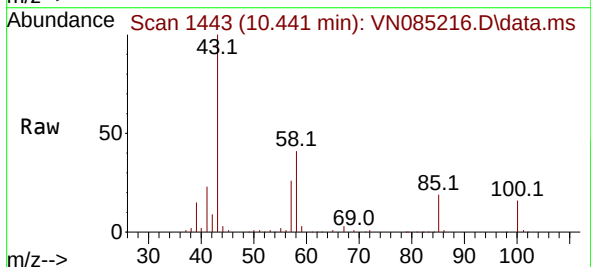
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

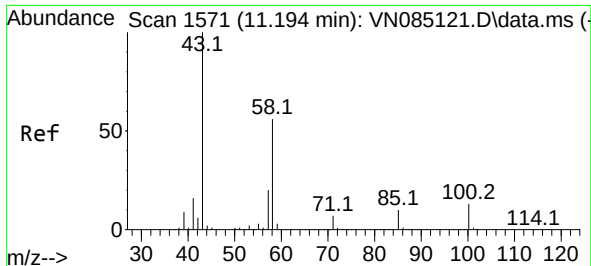
Tgt Ion:117 Resp: 146162
Ion Ratio Lower Upper
117 100
82 57.9 44.2 66.4
119 31.7 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 101.359 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 43 Resp: 241784
Ion Ratio Lower Upper
43 100
58 40.7 31.6 47.4
85 19.2 15.0 22.6

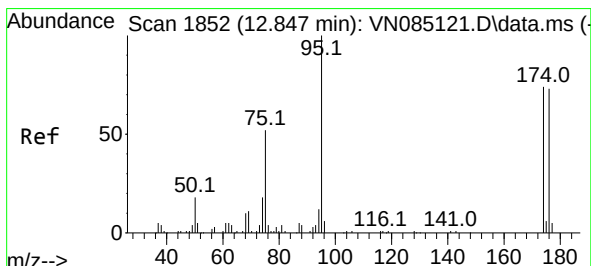
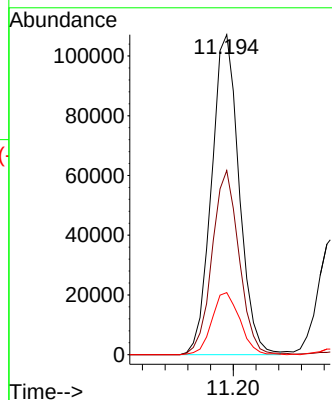
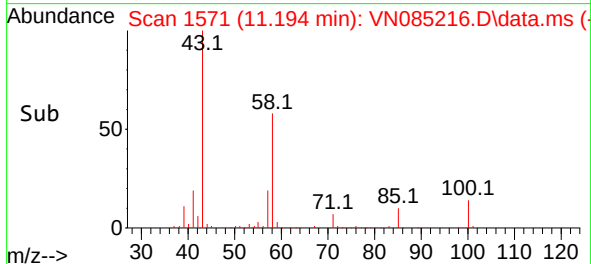
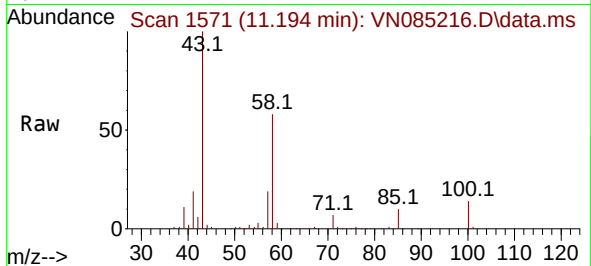




#59
2-Hexanone
Concen: 99.918 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

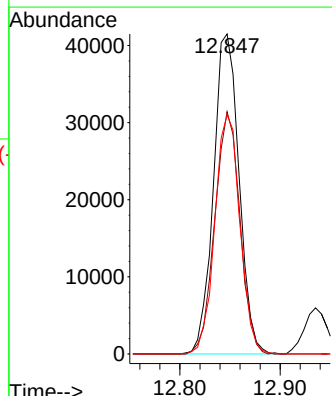
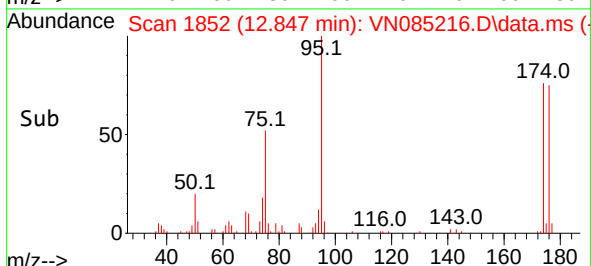
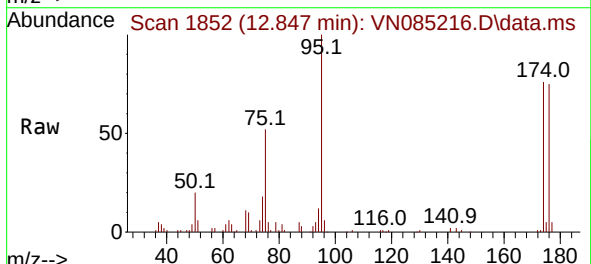
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

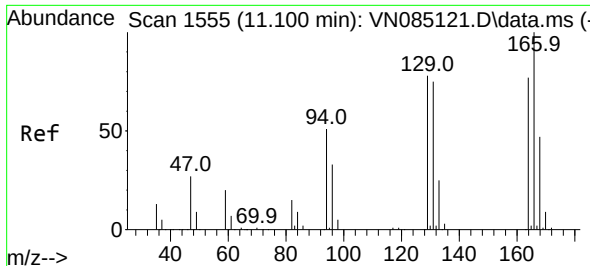
Tgt Ion: 43 Resp: 180597
Ion Ratio Lower Upper
43 100
58 56.1 43.6 65.4
57 19.7 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 30.335 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 95 Resp: 73363
Ion Ratio Lower Upper
95 100
174 74.4 60.3 90.5
176 73.4 57.4 86.0

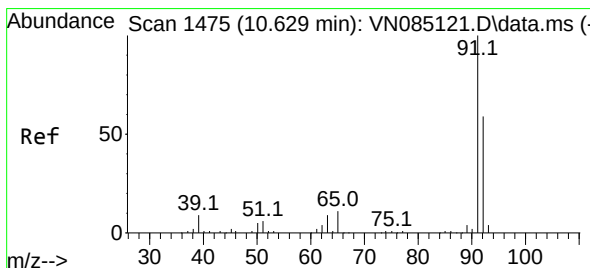
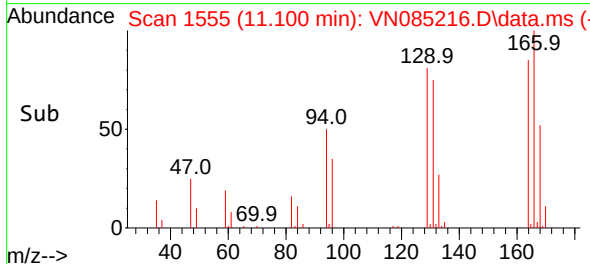
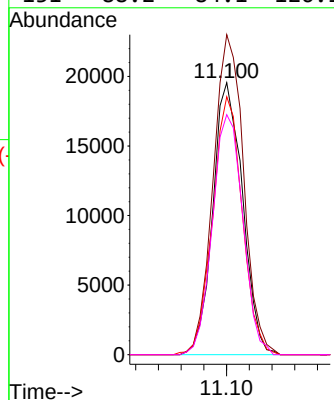
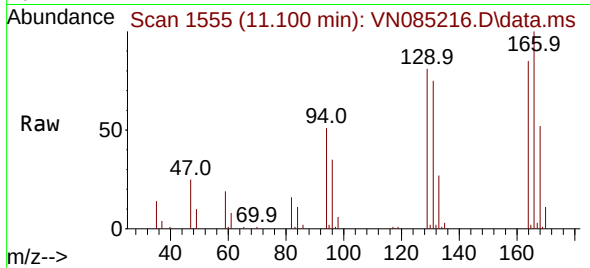




#61
Tetrachloroethene
Concen: 20.047 ug/l
RT: 11.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

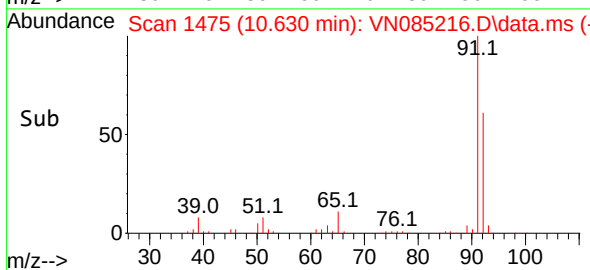
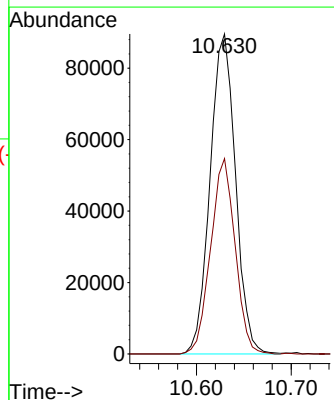
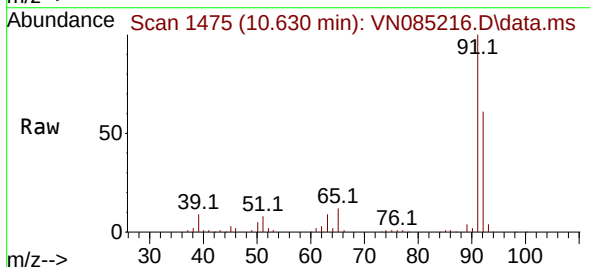
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

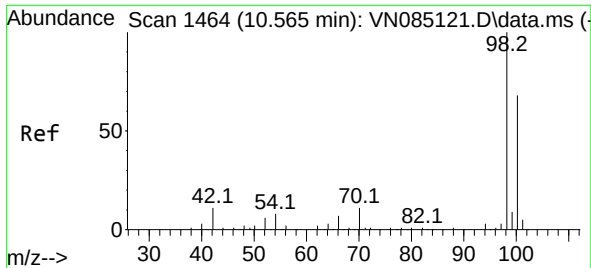
Tgt Ion:164 Resp: 35484
Ion Ratio Lower Upper
164 100
166 117.6 103.8 155.8
129 94.8 84.2 126.4
131 88.2 84.1 126.1



#62
Toluene
Concen: 19.603 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 91 Resp: 167102
Ion Ratio Lower Upper
91 100
92 58.7 46.5 69.7

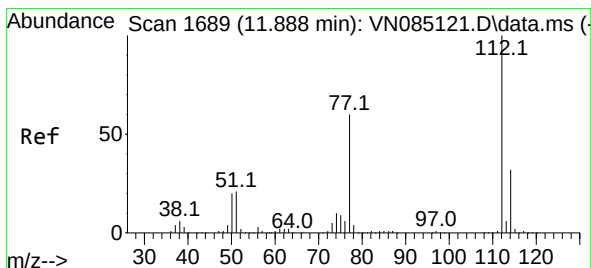
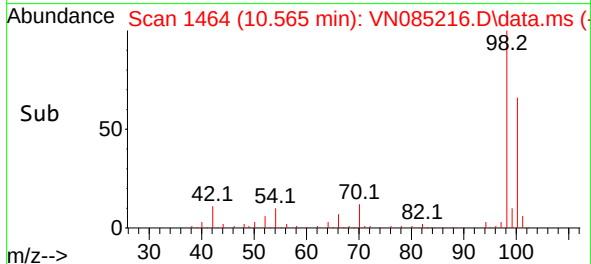
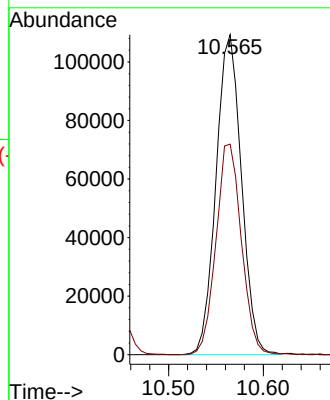
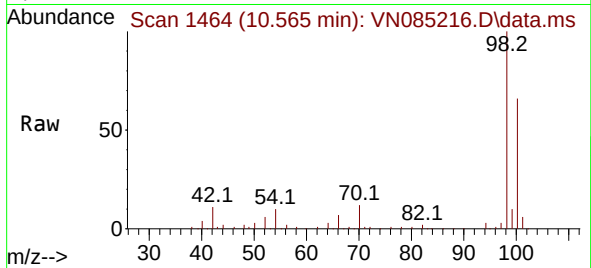




#63
Toluene-d8
Concen: 29.742 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

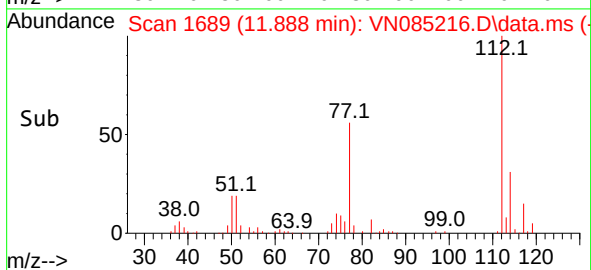
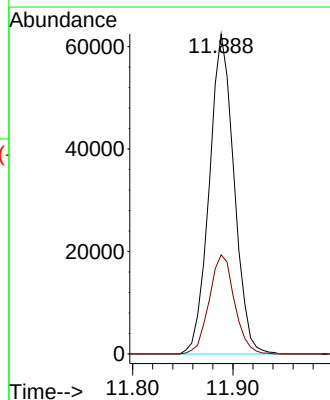
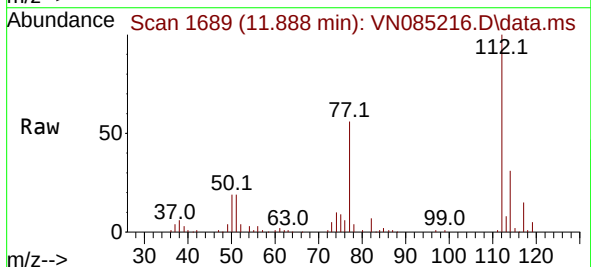
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

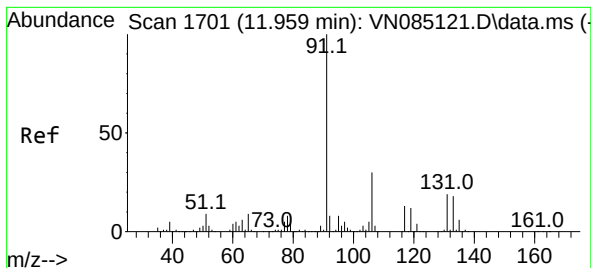
Tgt Ion: 98 Resp: 203918
Ion Ratio Lower Upper
98 100
100 65.7 52.0 78.0



#64
Chlorobenzene
Concen: 20.374 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 112 Resp: 107226
Ion Ratio Lower Upper
112 100
114 31.0 26.0 39.0





#65

1,1,1,2-Tetrachloroethane

Concen: 19.821 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

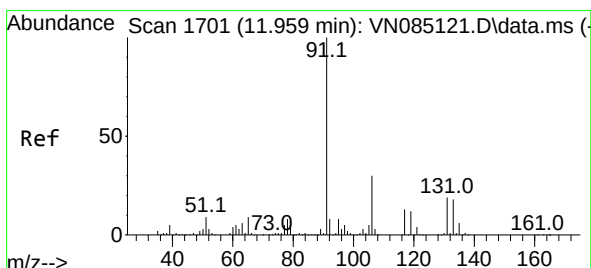
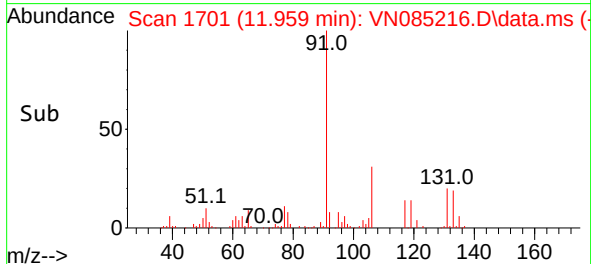
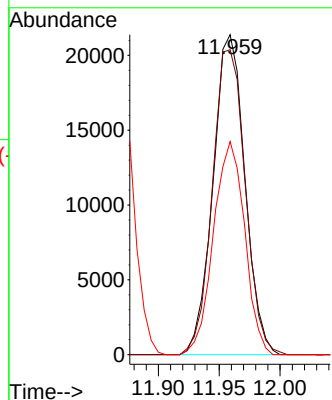
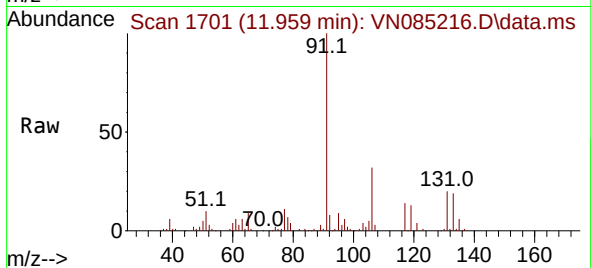
Tgt Ion:131 Resp: 38942

Ion Ratio Lower Upper

131 100

133 98.1 0.0 194.0

119 65.3 0.0 131.8



#66

Ethyl Benzene

Concen: 19.992 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.006 min

Lab File: VN085216.D

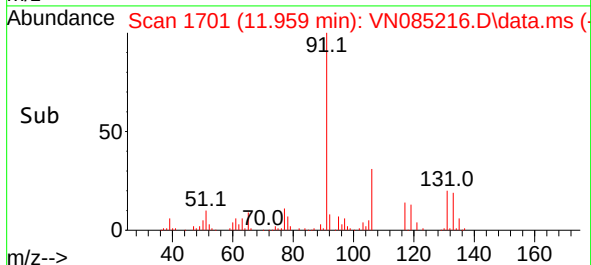
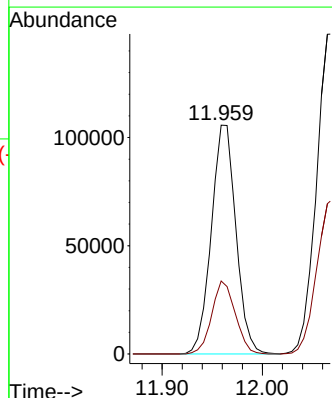
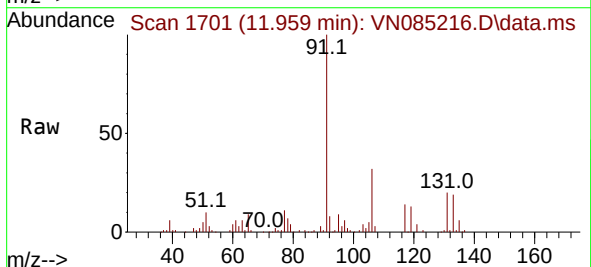
Acq: 16 Dec 2024 16:33

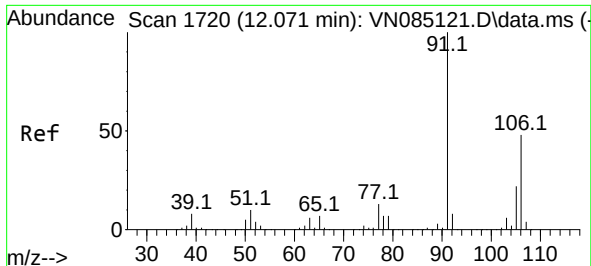
Tgt Ion: 91 Resp: 180830

Ion Ratio Lower Upper

91 100

106 31.9 23.1 34.7

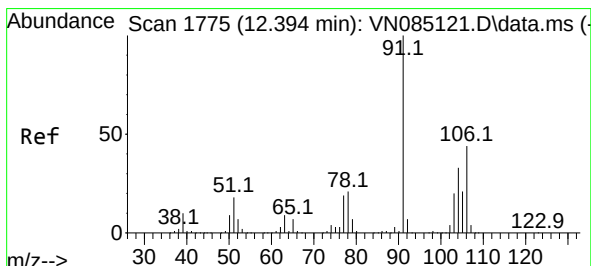
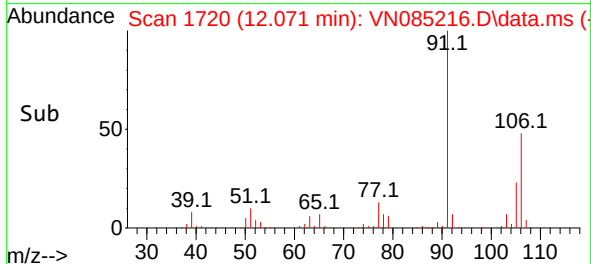
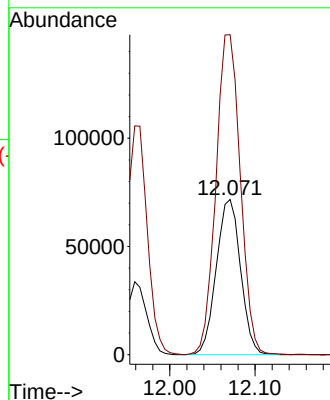
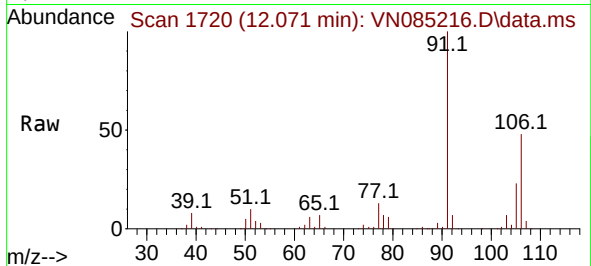




#67
m/p-Xylenes
Concen: 40.773 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

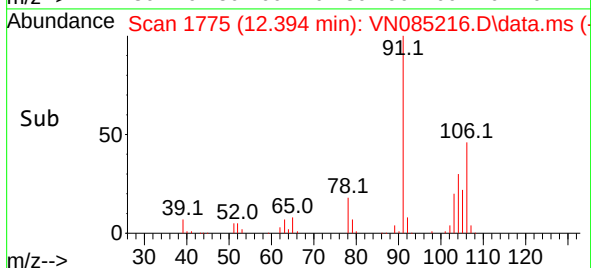
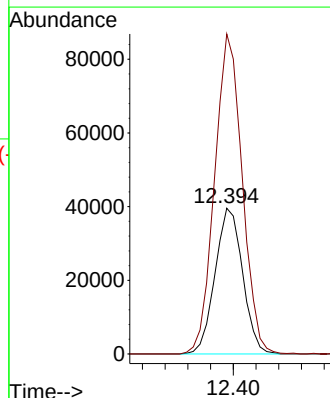
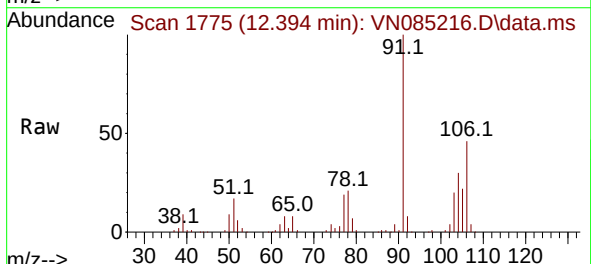
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

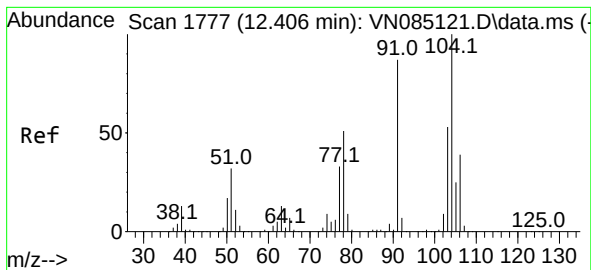
Tgt Ion:106 Resp: 141848
Ion Ratio Lower Upper
106 100
91 207.4 165.0 247.4



#68
o-Xylene
Concen: 20.398 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:106 Resp: 66647
Ion Ratio Lower Upper
106 100
91 220.1 112.1 336.4





#69

Styrene

Concen: 20.189 ug/l

RT: 12.412 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

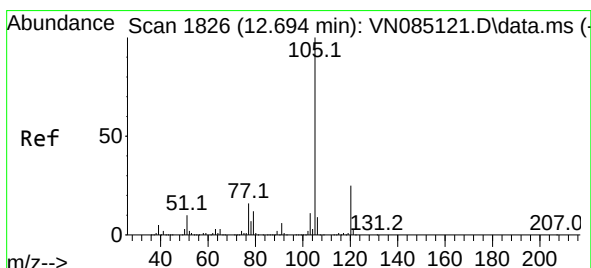
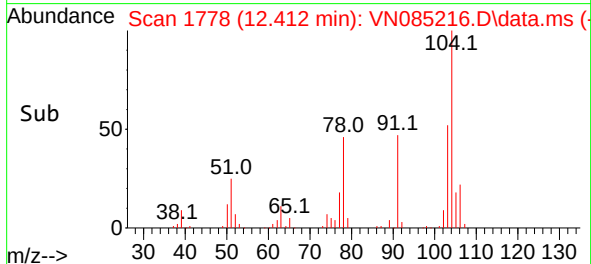
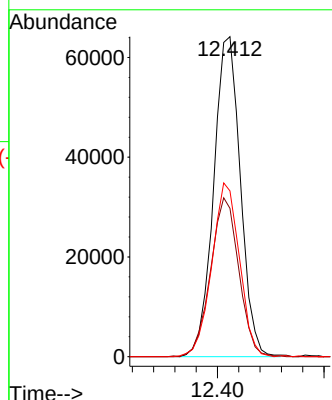
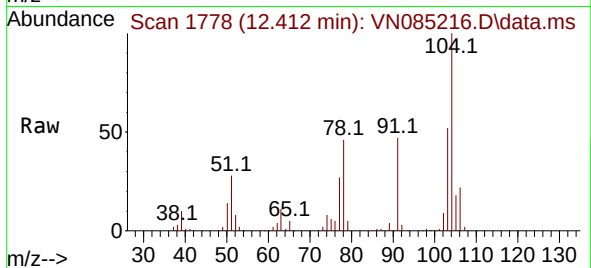
Tgt Ion:104 Resp: 111932

Ion Ratio Lower Upper

104 100

78 52.4 42.3 63.5

103 56.0 44.4 66.6



#70

Isopropylbenzene

Concen: 20.146 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN085216.D

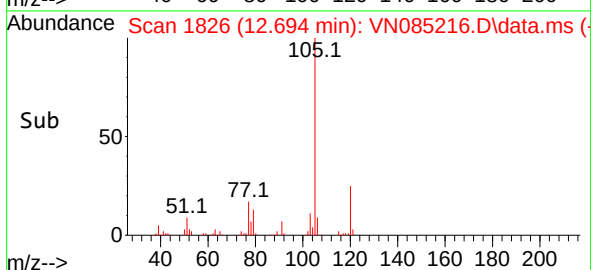
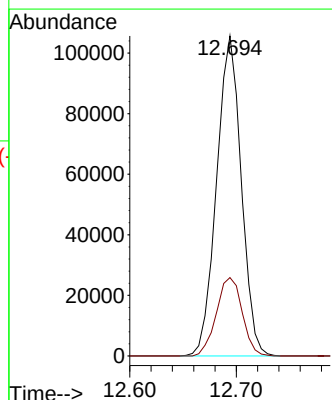
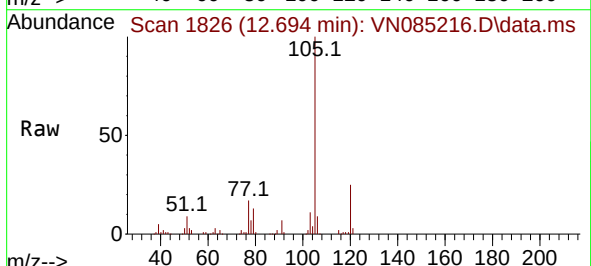
Acq: 16 Dec 2024 16:33

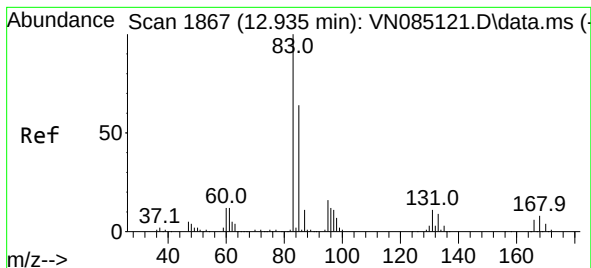
Tgt Ion:105 Resp: 169768

Ion Ratio Lower Upper

105 100

120 25.6 18.3 33.9

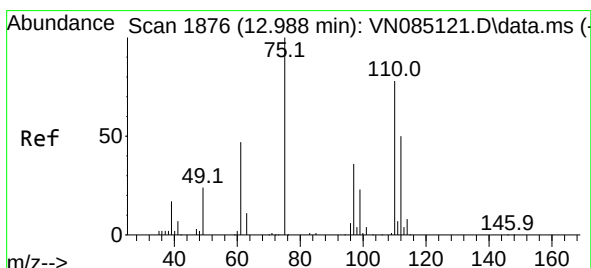
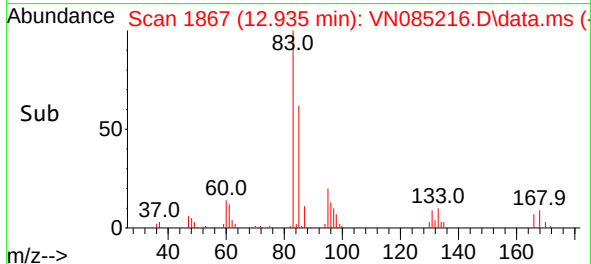
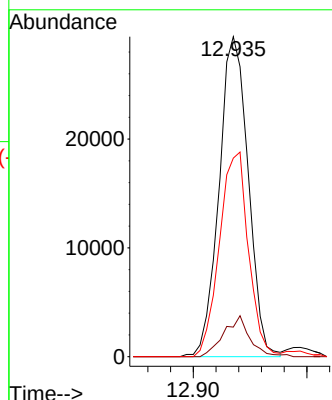
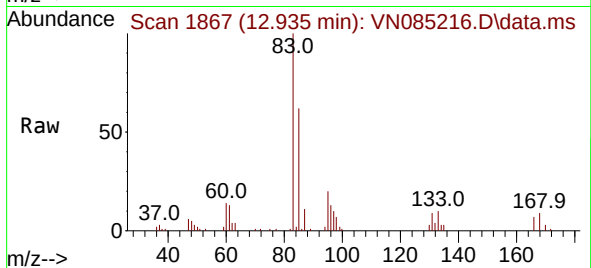




#71
1,1,2,2-Tetrachloroethane
Concen: 20.416 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

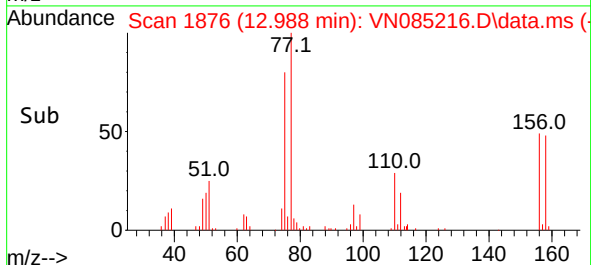
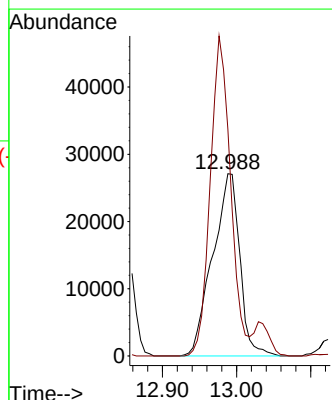
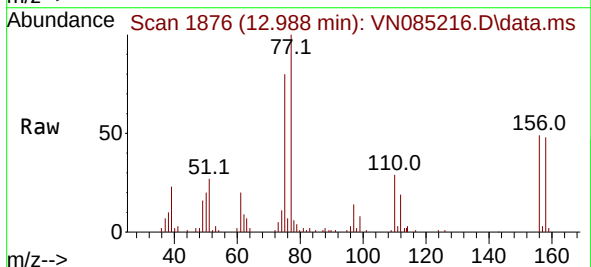
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

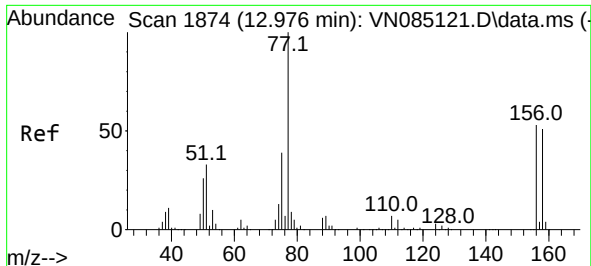
Tgt Ion: 83 Resp: 52367
Ion Ratio Lower Upper
83 100
131 11.3 5.1 15.3
85 63.6 31.1 93.5



#72
1,2,3-Trichloropropane
Concen: 27.180 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 75 Resp: 68868
Ion Ratio Lower Upper
75 100
77 132.2 0.0 339.0

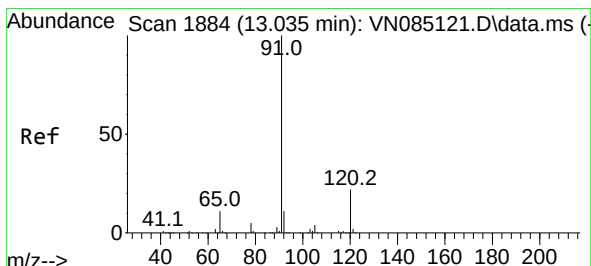
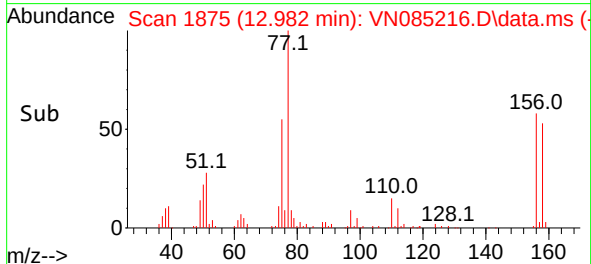
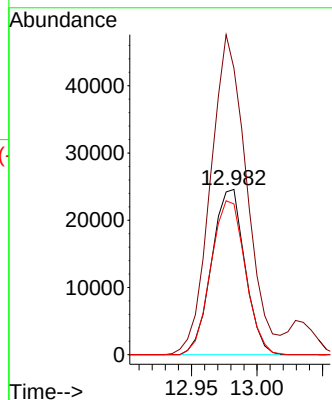
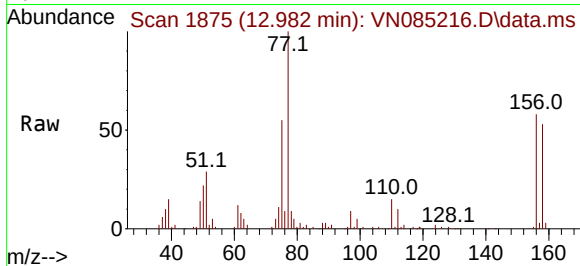




#73
Bromobenzene
Concen: 20.542 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

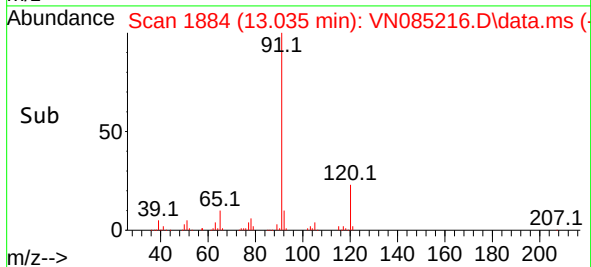
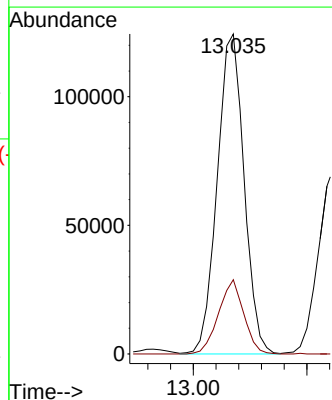
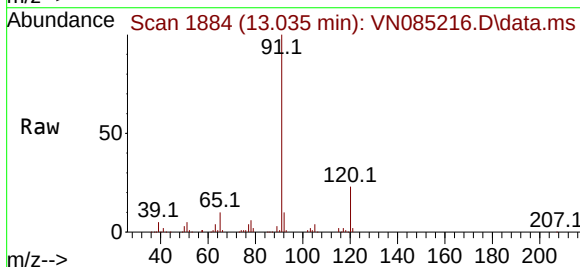
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

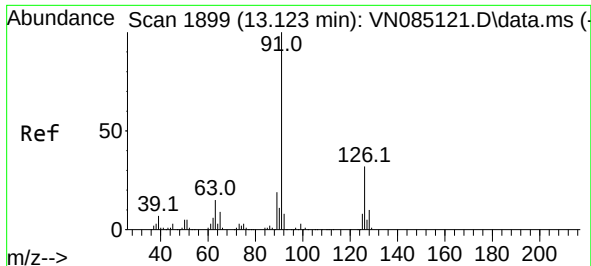
Tgt Ion:156 Resp: 43360
Ion Ratio Lower Upper
156 100
77 210.0 0.0 430.4
158 96.3 0.0 195.2



#74
n-propylbenzene
Concen: 20.162 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 91 Resp: 204268
Ion Ratio Lower Upper
91 100
120 21.7 0.0 44.0

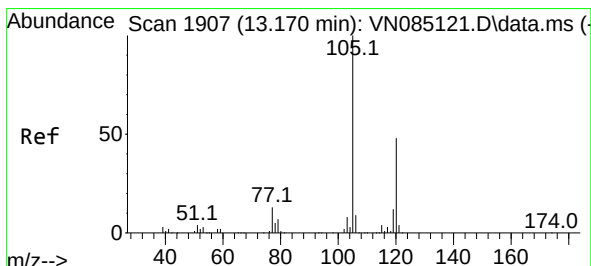
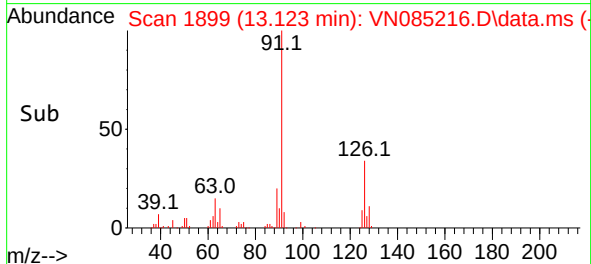
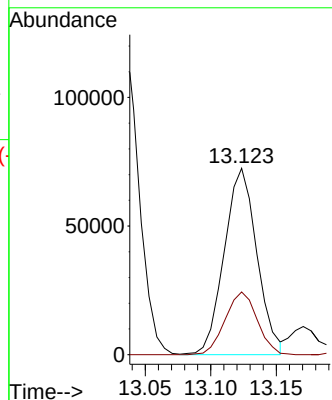
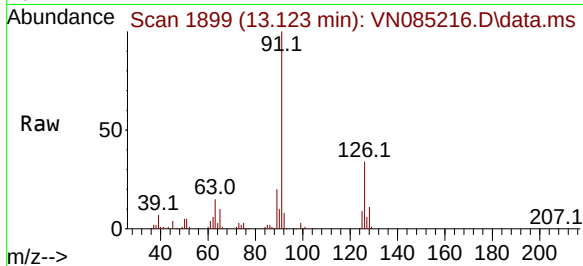




#75
2-Chlorotoluene
Concen: 20.066 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

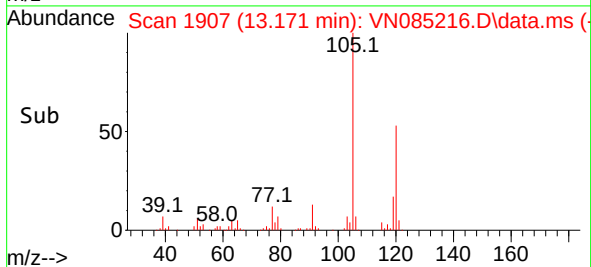
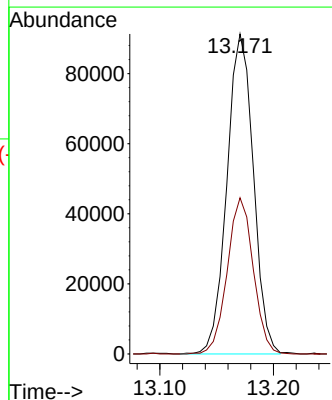
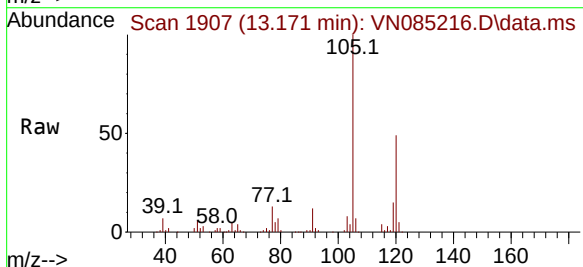
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

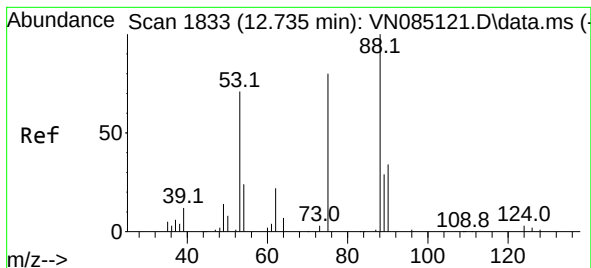
Tgt Ion: 91 Resp: 125691
Ion Ratio Lower Upper
91 100
126 33.0 0.0 64.2



#76
1,3,5-Trimethylbenzene
Concen: 20.451 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 105 Resp: 147652
Ion Ratio Lower Upper
105 100
120 47.9 0.0 94.4

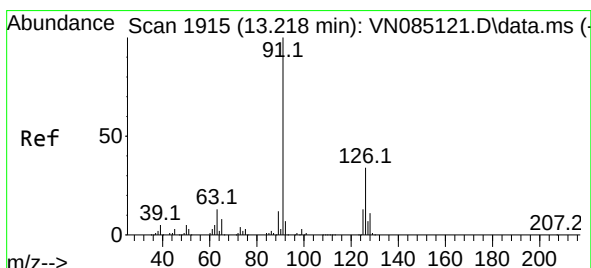
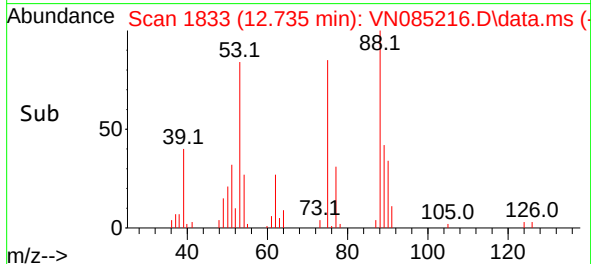
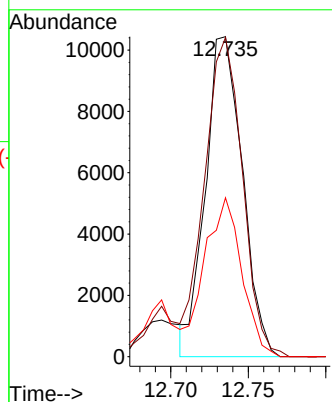
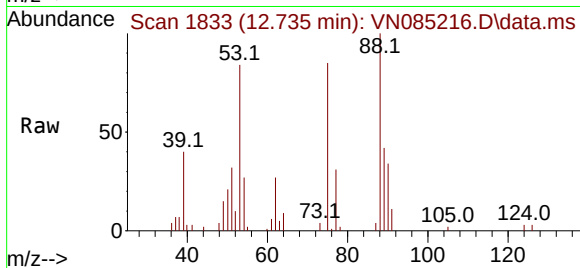




#77
t-1,4-Dichloro-2-butene
Concen: 18.797 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

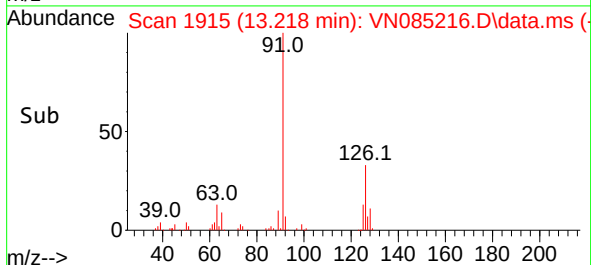
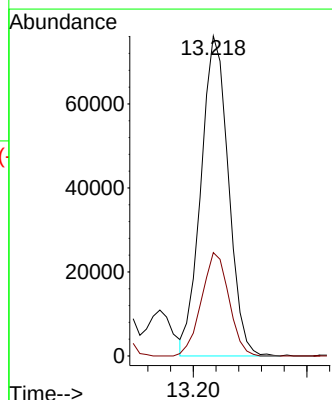
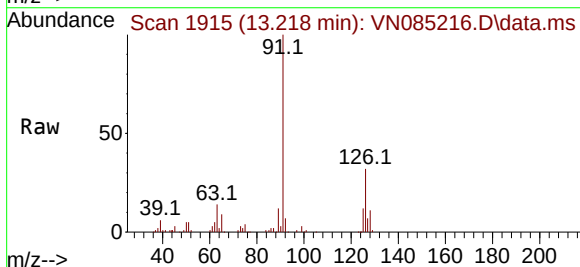
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

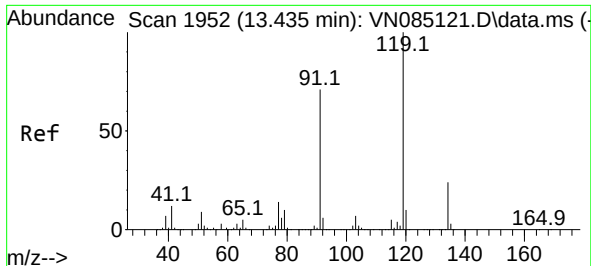
Tgt Ion:	75	Resp:	17306
Ion	Ratio	Lower	Upper
75	100		
53	98.0	49.1	147.3
89	49.6	22.9	68.5



#78
4-Chlorotoluene
Concen: 20.129 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:	91	Resp:	127980
Ion	Ratio	Lower	Upper
91	100		
126	32.2	0.0	64.4

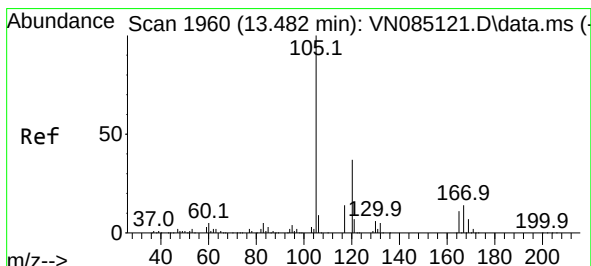
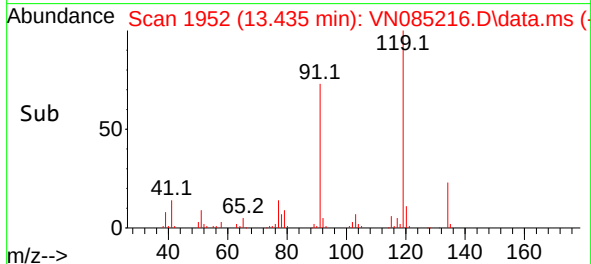
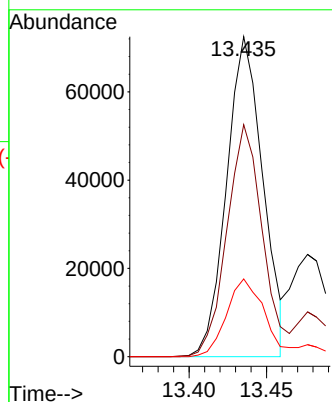
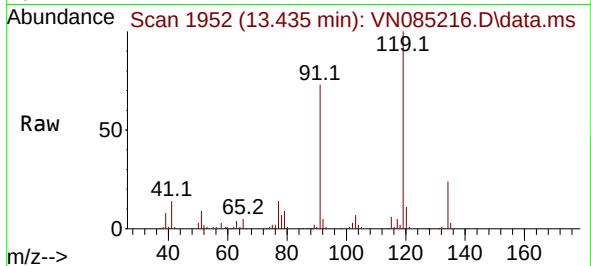




#79
tert-butylbenzene
Concen: 19.923 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

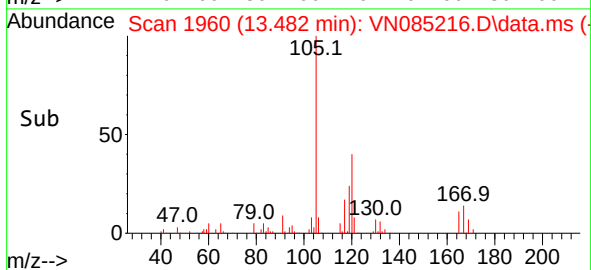
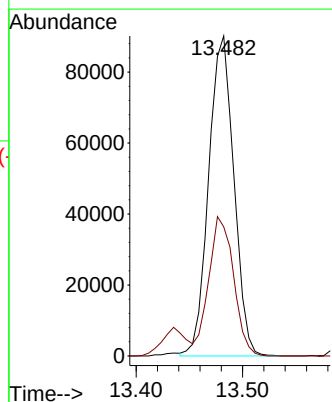
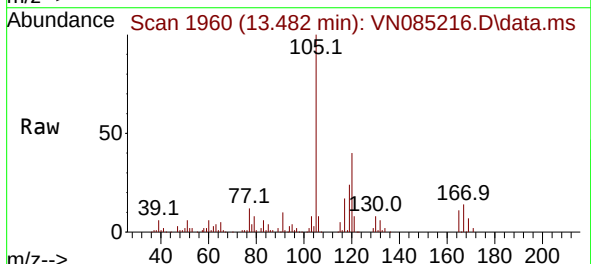
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

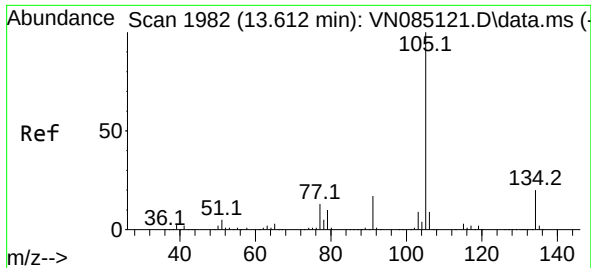
Tgt Ion:119 Resp: 118141
Ion Ratio Lower Upper
119 100
91 71.4 0.0 139.2
134 25.1 0.0 48.0



#80
1,2,4-Trimethylbenzene
Concen: 20.790 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion:105 Resp: 148267
Ion Ratio Lower Upper
105 100
120 43.0 0.0 87.4

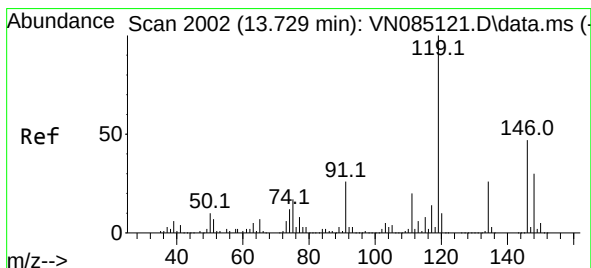
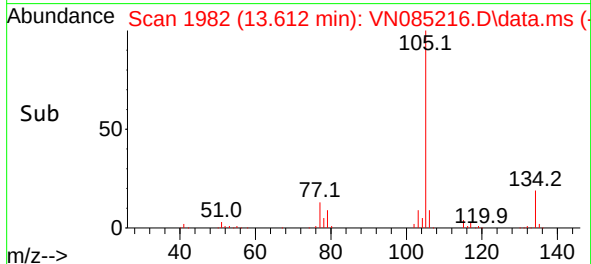
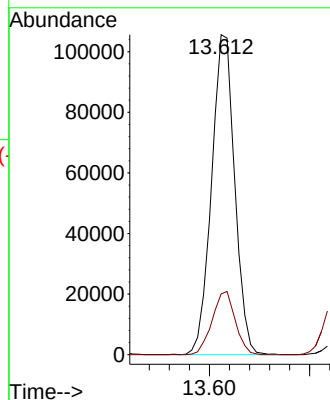
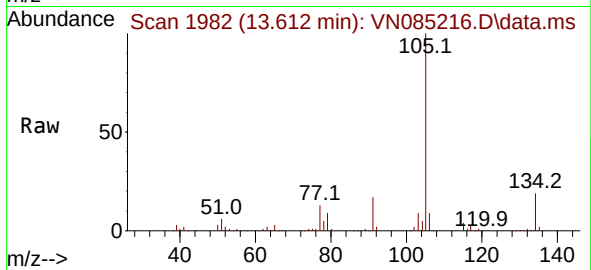




#81
 sec-Butylbenzene
 Concen: 20.111 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

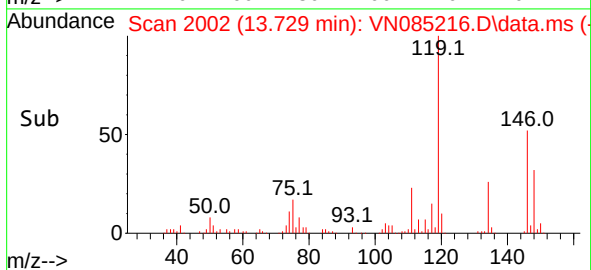
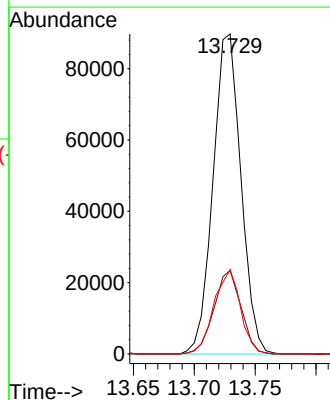
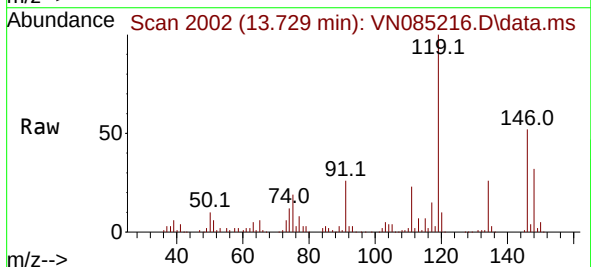
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

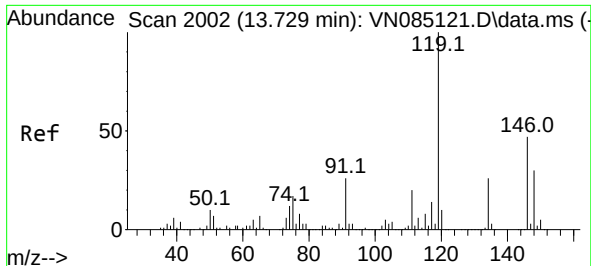
Tgt Ion:105 Resp: 169428
 Ion Ratio Lower Upper
 105 100
 134 19.7 0.0 38.0



#82
 p-Isopropyltoluene
 Concen: 20.444 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

Tgt Ion:119 Resp: 142796
 Ion Ratio Lower Upper
 119 100
 134 25.3 0.0 51.6
 91 25.2 0.0 50.4

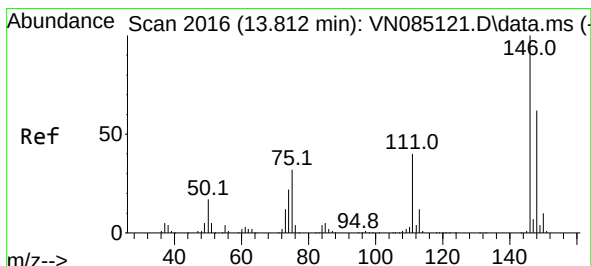
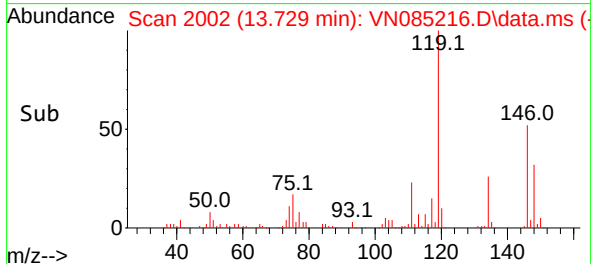
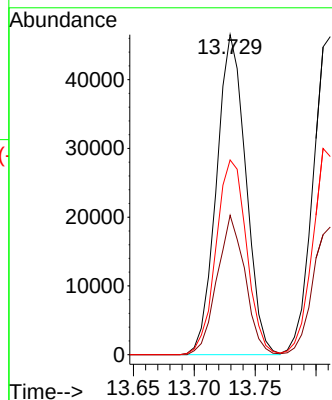
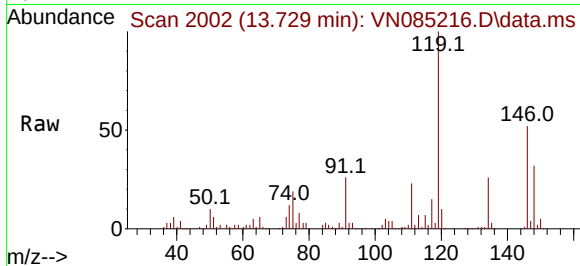




#83
 1,3-Dichlorobenzene
 Concen: 20.134 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

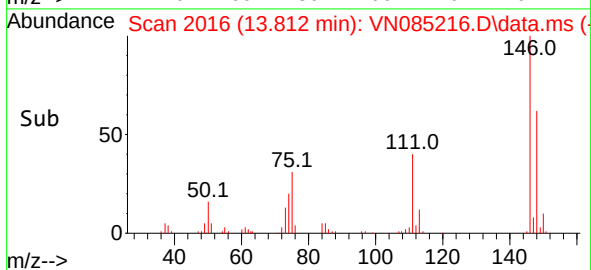
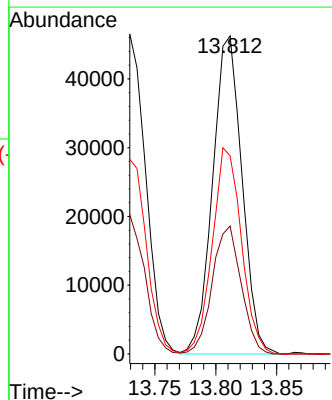
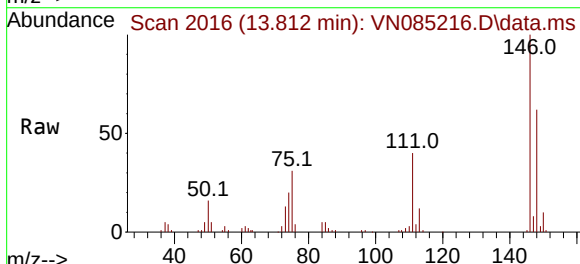
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

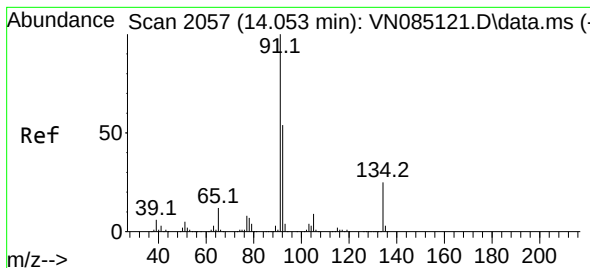
Tgt Ion:146 Resp: 77972
 Ion Ratio Lower Upper
 146 100
 111 41.6 21.1 63.3
 148 63.4 31.8 95.3



#84
 1,4-Dichlorobenzene
 Concen: 20.546 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN085216.D
 Acq: 16 Dec 2024 16:33

Tgt Ion:146 Resp: 77546
 Ion Ratio Lower Upper
 146 100
 111 39.6 20.1 60.3
 148 64.3 31.6 94.7





#85

n-Butylbenzene

Concen: 19.773 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

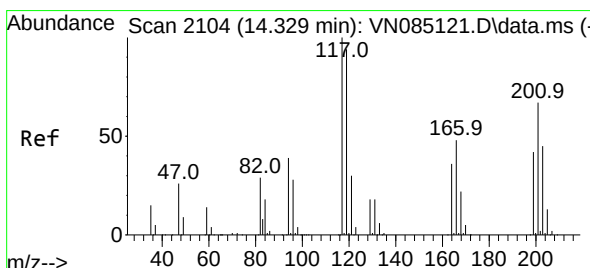
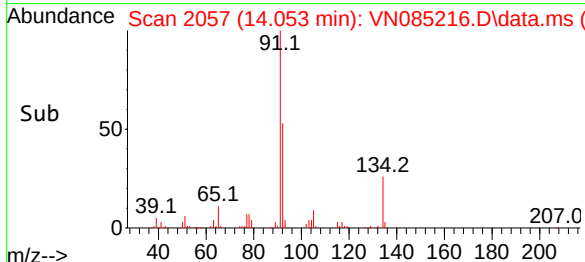
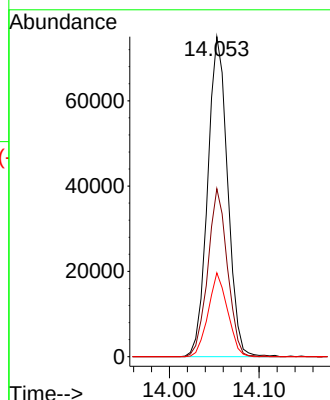
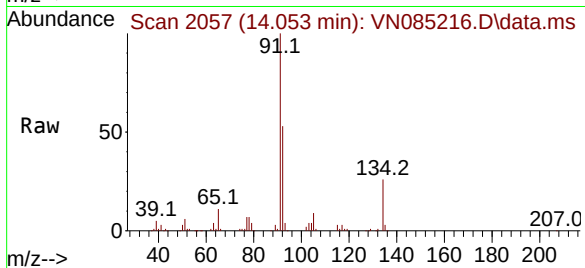
Tgt Ion: 91 Resp: 115848

Ion Ratio Lower Upper

91 100

92 51.5 0.0 104.0

134 25.5 0.0 49.2



#86

Hexachloroethane

Concen: 20.814 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN085216.D

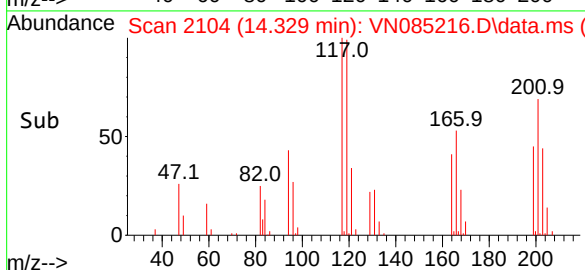
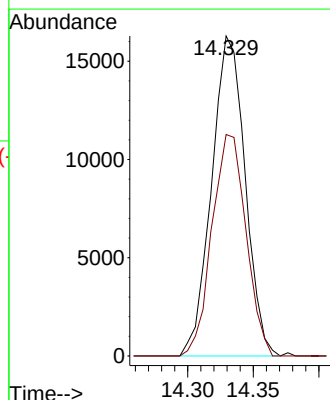
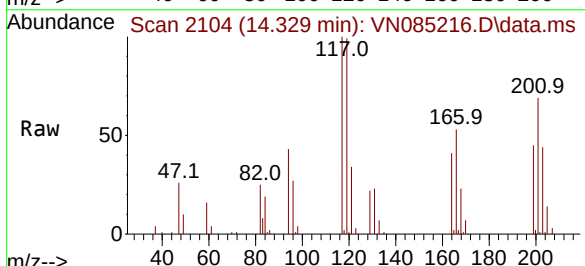
Acq: 16 Dec 2024 16:33

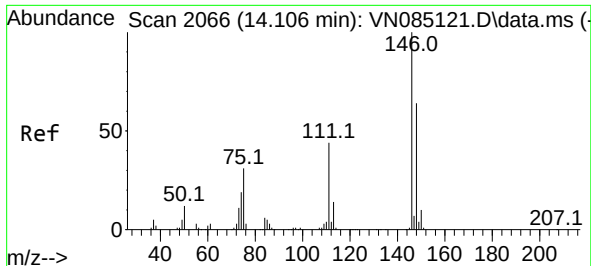
Tgt Ion: 117 Resp: 28941

Ion Ratio Lower Upper

117 100

201 70.2 34.1 102.3

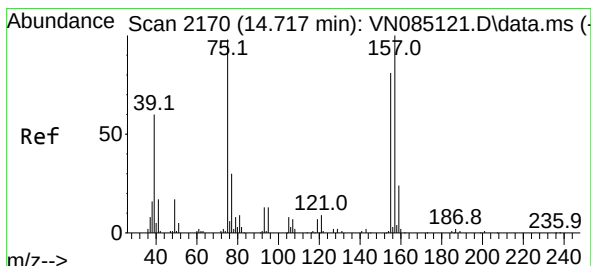
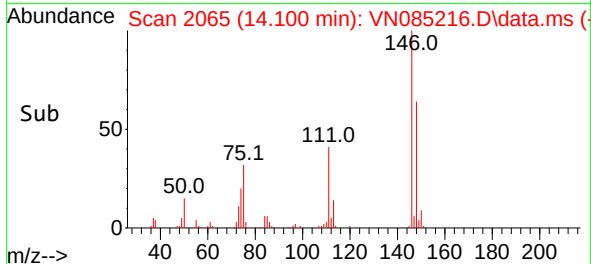
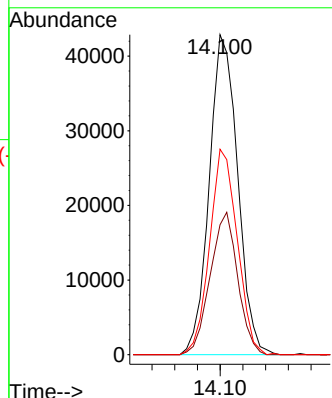
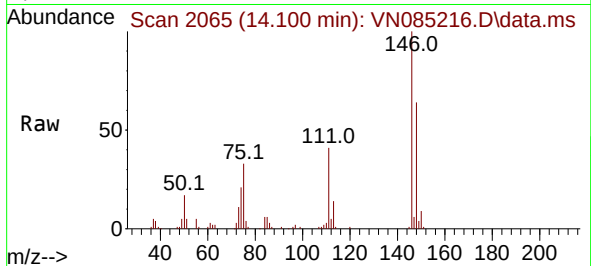




#87
1,2-Dichlorobenzene
Concen: 20.380 ug/l
RT: 14.100 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

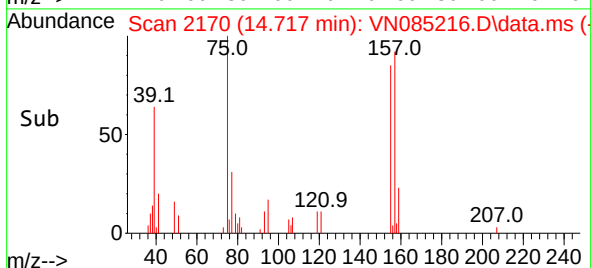
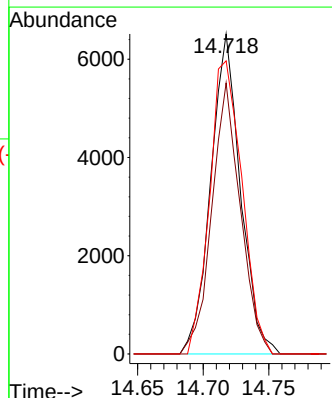
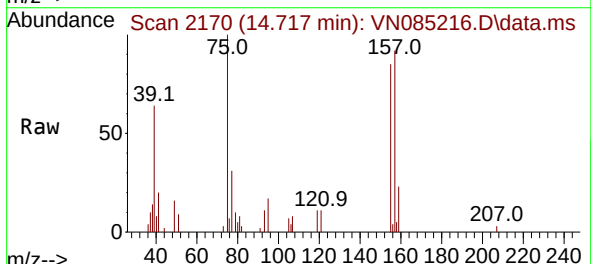
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

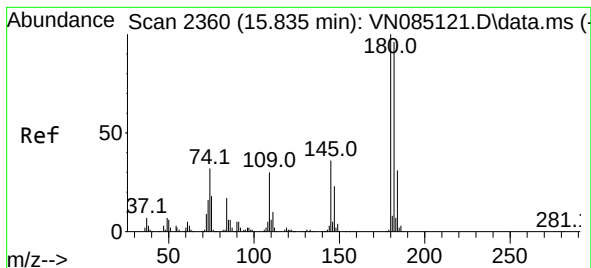
Tgt Ion:146 Resp: 74498
Ion Ratio Lower Upper
146 100
111 43.1 21.9 65.7
148 62.5 32.4 97.0



#88
1,2-Dibromo-3-Chloropropane
Concen: 20.062 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085216.D
Acq: 16 Dec 2024 16:33

Tgt Ion: 75 Resp: 10280
Ion Ratio Lower Upper
75 100
155 81.4 62.1 93.1
157 100.1 79.3 118.9





#89

1,2,4-Trichlorobenzene

Concen: 19.481 ug/l

RT: 15.835 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

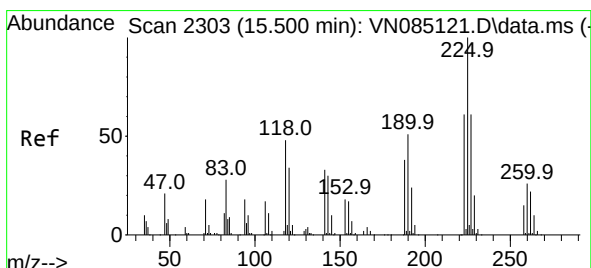
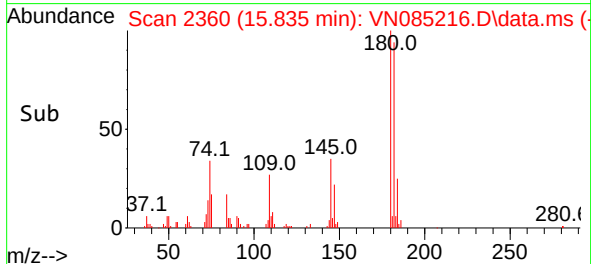
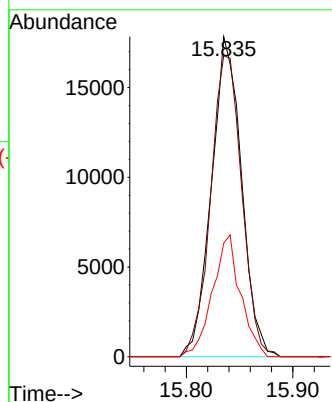
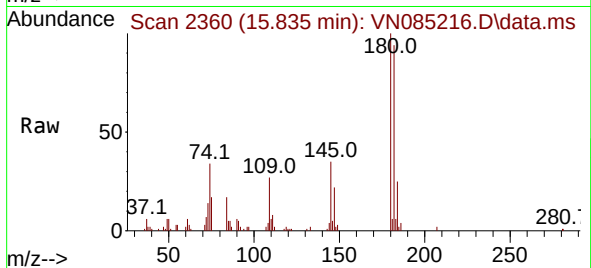
Tgt Ion:180 Resp: 34875

Ion Ratio Lower Upper

180 100

182 97.6 74.0 111.0

145 35.5 28.6 43.0



#90

Hexachlorobutadiene

Concen: 19.555 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

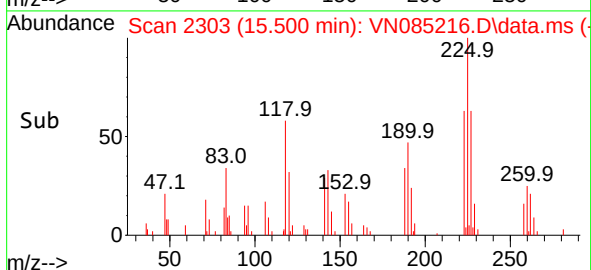
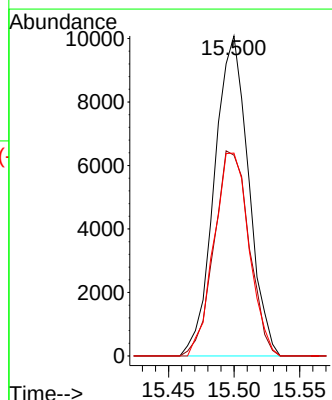
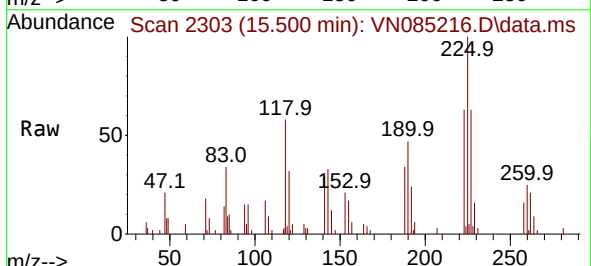
Tgt Ion:225 Resp: 18191

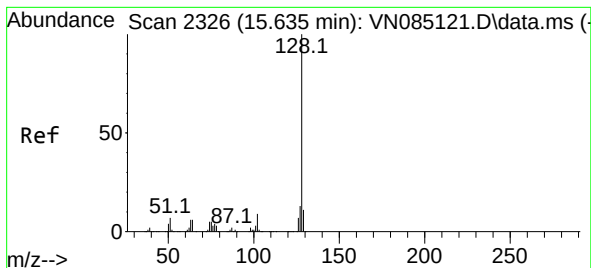
Ion Ratio Lower Upper

225 100

223 65.8 0.0 121.8

227 65.3 0.0 126.8





#91

Naphthalene

Concen: 19.380 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

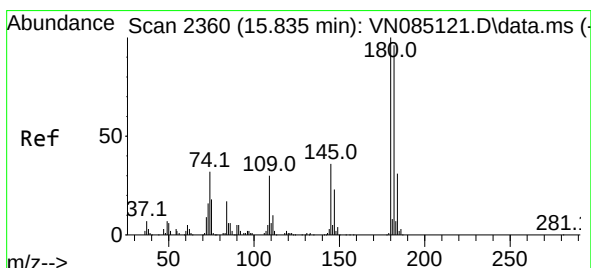
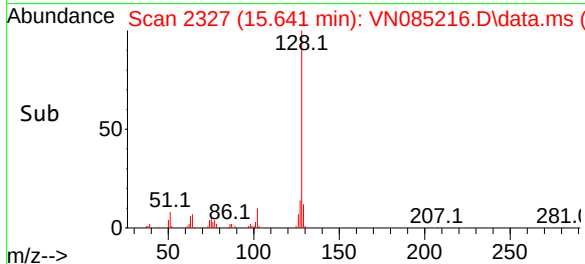
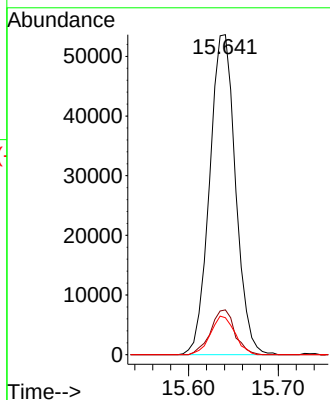
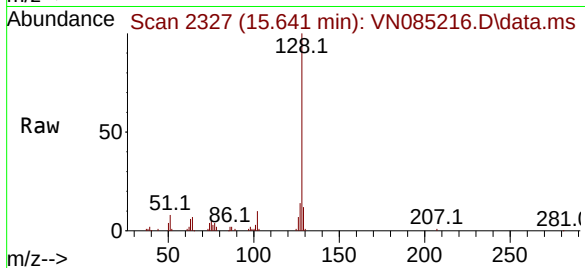
Tgt Ion:128 Resp: 107788

Ion Ratio Lower Upper

128 100

127 13.1 11.0 16.4

129 11.3 8.7 13.1



#92

1,2,3-Trichlorobenzene

Concen: 19.481 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085216.D

Acq: 16 Dec 2024 16:33

Tgt Ion:180 Resp: 34875

Ion Ratio Lower Upper

180 100

182 97.6 0.0 185.0

145 35.5 0.0 71.6

