

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

LAB CHRONICLE

OrderID:	P4549	OrderDate:	10/24/2024 4:00:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4549-01	TT-TB-20241024	Water	VOCMS Group4	624.1	10/24/24		10/25/24	10/24/24
P4549-02	TT-067-IDWGW-2024 1024	Water	VOCMS Group4	624.1	10/24/24		10/25/24	10/24/24
P4549-03	TT-068-IDWGW-2024 1024	Water	VOCMS Group4	624.1	10/24/24		10/25/24	10/24/24
P4549-04	TT-069-IDWGW-2024 1024	Water	VOCMS Group4	624.1	10/24/24		10/25/24	10/24/24

Hit Summary Sheet
SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: P4549-02	TT-067-IDWGW-20241024 TT-067-IDWGW-20 Water		Trichloroethene	3.80	J	3.10	20.0	ug/L
			Total Voc :	3.80				
			Total Concentration:	3.80				
Client ID: P4549-03	TT-068-IDWGW-20241024 TT-068-IDWGW-20 Water		Trichloroethene	25.2		3.10	20.0	ug/L
			Total Voc :	25.2				
			Total Concentration:	25.2				
Client ID: P4549-04	TT-069-IDWGW-20241024 TT-069-IDWGW-20 Water		Trichloroethene	26.2		3.10	20.0	ug/L
			Total Voc :	26.2				
			Total Concentration:	26.2				



QC SUMMARY

Surrogate Summary

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4549-01	TT-TB-20241024	1,2-Dichloroethane-d4	30	30.1	100	91	110
		Toluene-d8	30	29.3	98	91	112
		4-Bromofluorobenzene	30	25.2	84	63	112
P4549-02	TT-067-IDWGW-20241024	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	28.6	95	91	112
		4-Bromofluorobenzene	30	25.2	84	63	112
P4549-03	TT-068-IDWGW-20241024	1,2-Dichloroethane-d4	30	30.9	103	91	110
		Toluene-d8	30	28.6	95	91	112
		4-Bromofluorobenzene	30	24.7	82	63	112
P4549-04	TT-069-IDWGW-20241024	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	29.1	97	91	112
		4-Bromofluorobenzene	30	25.8	86	63	112
VN1025WBL01	VN1025WBL01	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	30.1	100	91	112
		4-Bromofluorobenzene	30	26.2	87	63	112
VN1025WBS01	VN1025WBS01	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	29.9	100	91	112
		4-Bromofluorobenzene	30	30.6	102	63	112
VN1025WBSD0	VN1025WBSD01	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	29.5	98	91	112
		4-Bromofluorobenzene	30	30.3	101	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN084505.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1025WBS01	Dichlorodifluoromethane	20	17.5	ug/L	88			72	118	
	Chloromethane	20	17.5	ug/L	88			1	205	
	Vinyl Chloride	20	18.2	ug/L	91			5	195	
	Bromomethane	20	17.5	ug/L	88			15	185	
	Chloroethane	20	18.5	ug/L	93			40	160	
	Trichlorofluoromethane	20	18.7	ug/L	94			50	150	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			64	127	
	1,1-Dichloroethene	20	18.5	ug/L	93			50	150	
	Acrolein	100	99.2	ug/L	99			60	140	
	Acrylonitrile	100	89.2	ug/L	89			60	140	
	Acetone	100	110	ug/L	110			41	148	
	Carbon disulfide	20	16.5	ug/L	83			76	107	
	Methyl tert-butyl Ether	20	18.8	ug/L	94			82	114	
	Methyl Acetate	20	21.2	ug/L	106			63	139	
	Methylene Chloride	20	19.0	ug/L	95			60	140	
	trans-1,2-Dichloroethene	20	17.8	ug/L	89			70	130	
	1,1-Dichloroethane	20	18.8	ug/L	94			70	130	
	Cyclohexane	20	17.5	ug/L	88			79	113	
	2-Butanone	100	95.6	ug/L	96			69	129	
	Carbon Tetrachloride	20	18.7	ug/L	94			70	130	
	2,2-Dichloropropane	20	19.4	ug/L	97			62	139	
	cis-1,2-Dichloroethene	20	18.5	ug/L	93			81	112	
	Chloroform	20	19.4	ug/L	97			70	135	
	1,1,1-Trichloroethane	20	18.1	ug/L	91			70	130	
	Methylcyclohexane	20	17.4	ug/L	87			79	112	
	1,1-Dichloropropene	20	17.8	ug/L	89			70	139	
	Benzene	20	18.2	ug/L	91			65	135	
	1,2-Dichloroethane	20	18.8	ug/L	94			70	130	
	Trichloroethene	20	18.5	ug/L	93			65	135	
	1,2-Dichloropropane	20	18.4	ug/L	92			35	165	
	Dibromomethane	20	18.4	ug/L	92			72	138	
	Bromodichloromethane	20	19.2	ug/L	96			65	135	
	4-Methyl-2-Pentanone	100	92.6	ug/L	93			73	131	
	Toluene	20	18.8	ug/L	94			70	130	
	t-1,3-Dichloropropene	20	17.8	ug/L	89			50	150	
	cis-1,3-Dichloropropene	20	18.1	ug/L	91			25	175	
	1,1,2-Trichloroethane	20	18.7	ug/L	94			70	130	
	1,3-Dichloropropane	20	18.7	ug/L	94			70	141	
	2-Hexanone	100	94.4	ug/L	94			72	128	
	Dibromochloromethane	20	18.9	ug/L	95			70	135	
	1,2-Dibromoethane	20	18.0	ug/L	90			86	114	
	Tetrachloroethene	20	19.3	ug/L	97			70	130	
	Chlorobenzene	20	18.5	ug/L	93			65	135	
	1,1,1,2-Tetrachloroethane	20	19.3	ug/L	97			63	138	
	Hexachloroethane	20	18.3	ug/L	92			70	130	
	Ethyl Benzene	20	18.6	ug/L	93			60	140	
	m/p-Xylenes	40	37.6	ug/L	94			87	111	
	o-Xylene	20	18.4	ug/L	92			87	111	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN084505.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1025WBS01	Styrene	20	18.8	ug/L	94			85	106	
	Bromoform	20	17.9	ug/L	90			70	130	
	Isopropylbenzene	20	19.0	ug/L	95			86	112	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/L	95			60	140	
	1,2,3-Trichloropropane	20	18.0	ug/L	90			61	148	
	Bromobenzene	20	19.1	ug/L	96			59	142	
	N-propylbenzene	20	19.0	ug/L	95			67	139	
	2-Chlorotoluene	20	19.0	ug/L	95			66	138	
	1,3,5-Trimethylbenzene	20	19.1	ug/L	96			66	139	
	4-Chlorotoluene	20	18.8	ug/L	94			66	141	
	tert-Butylbenzene	20	19.2	ug/L	96			56	140	
	1,2,4-Trimethylbenzene	20	19.0	ug/L	95			63	142	
	Sec-butylbenzene	20	19.0	ug/L	95			63	144	
	p-Isopropyltoluene	20	18.6	ug/L	93			57	147	
	1,3-Dichlorobenzene	20	19.1	ug/L	96			70	130	
	1,4-Dichlorobenzene	20	18.9	ug/L	95			65	135	
	n-Butylbenzene	20	18.4	ug/L	92			49	157	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			65	135	
	1,2-Dibromo-3-Chloropropane	20	19.2	ug/L	96			69	122	
	1,2,4-Trichlorobenzene	20	17.9	ug/L	90			61	118	
	Hexachlorobutadiene	20	18.5	ug/L	93			16	187	
	Naphthalene	20	16.8	ug/L	84			45	152	
	1,2,3-Trichlorobenzene	20	17.9	ug/L	90			38	159	
	Methyl iodide	20	17.8	ug/L	89			70	130	
	Methyl methacrylate	20	17.2	ug/L	86			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P4549**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **SW624.1**

Datafile : VN084506.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1025WBSD01	Dichlorodifluoromethane	20	17.2	ug/L	86	2		72	118	20
	Chloromethane	20	16.8	ug/L	84	5		1	205	20
	Vinyl Chloride	20	18.0	ug/L	90	1		5	195	20
	Bromomethane	20	17.2	ug/L	86	2		15	185	20
	Chloroethane	20	18.6	ug/L	93	0		40	160	20
	Trichlorofluoromethane	20	18.3	ug/L	92	2		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/L	95	5		64	127	20
	1,1-Dichloroethene	20	17.9	ug/L	90	3		50	150	20
	Acrolein	100	100	ug/L	100	1		60	140	20
	Acrylonitrile	100	92.5	ug/L	93	4		60	140	20
	Acetone	100	110	ug/L	110	0		41	148	20
	Carbon disulfide	20	15.9	ug/L	79	5		76	107	20
	Methyl tert-butyl Ether	20	19.1	ug/L	96	2		82	114	20
	Methyl Acetate	20	21.9	ug/L	110	4		63	139	20
	Methylene Chloride	20	18.7	ug/L	94	1		60	140	20
	trans-1,2-Dichloroethene	20	17.5	ug/L	88	1		70	130	20
	1,1-Dichloroethane	20	18.7	ug/L	94	0		70	130	20
	Cyclohexane	20	17.2	ug/L	86	2		79	113	20
	2-Butanone	100	97.6	ug/L	98	2		69	129	20
	Carbon Tetrachloride	20	18.5	ug/L	93	1		70	130	20
	2,2-Dichloropropane	20	19.2	ug/L	96	1		62	139	20
	cis-1,2-Dichloroethene	20	18.4	ug/L	92	1		81	112	20
	Chloroform	20	18.8	ug/L	94	3		70	135	20
	1,1,1-Trichloroethane	20	18.2	ug/L	91	0		70	130	20
	Methylcyclohexane	20	17.1	ug/L	86	1		79	112	20
	1,1-Dichloropropene	20	17.5	ug/L	88	1		70	139	20
	Benzene	20	18.5	ug/L	93	2		65	135	20
	1,2-Dichloroethane	20	18.7	ug/L	94	0		70	130	20
	Trichloroethene	20	18.5	ug/L	93	0		65	135	20
	1,2-Dichloropropane	20	18.2	ug/L	91	1		35	165	20
	Dibromomethane	20	18.4	ug/L	92	0		72	138	20
	Bromodichloromethane	20	18.5	ug/L	93	3		65	135	20
	4-Methyl-2-Pentanone	100	95.9	ug/L	96	3		73	131	20
	Toluene	20	18.6	ug/L	93	1		70	130	20
	t-1,3-Dichloropropene	20	17.8	ug/L	89	0		50	150	20
	cis-1,3-Dichloropropene	20	18.6	ug/L	93	2		25	175	20
	1,1,2-Trichloroethane	20	18.6	ug/L	93	1		70	130	20
	1,3-Dichloropropane	20	18.5	ug/L	93	1		70	141	20
	2-Hexanone	100	97.3	ug/L	97	3		72	128	20
	Dibromochloromethane	20	18.3	ug/L	92	3		70	135	20
	1,2-Dibromoethane	20	18.0	ug/L	90	0		86	114	20
	Tetrachloroethene	20	18.5	ug/L	93	4		70	130	20
	Chlorobenzene	20	18.5	ug/L	93	0		65	135	20
	1,1,1,2-Tetrachloroethane	20	18.9	ug/L	95	2		63	138	20
	Hexachloroethane	20	17.6	ug/L	88	4		70	130	20
	Ethyl Benzene	20	18.2	ug/L	91	2		60	140	20
	m/p-Xylenes	40	37.3	ug/L	93	1		87	111	20
	o-Xylene	20	18.5	ug/L	93	1		87	111	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN084506.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1025WBSD01	Styrene	20	18.3	ug/L	92	2		85	106	20
	Bromoform	20	18.2	ug/L	91	1		70	130	20
	Isopropylbenzene	20	18.5	ug/L	93	2		86	112	20
	1,1,2,2-Tetrachloroethane	20	19.1	ug/L	96	1		60	140	20
	1,2,3-Trichloropropane	20	21.3	ug/L	106	16		61	148	20
	Bromobenzene	20	18.2	ug/L	91	5		59	142	20
	N-propylbenzene	20	18.3	ug/L	92	3		67	139	20
	2-Chlorotoluene	20	18.6	ug/L	93	2		66	138	20
	1,3,5-Trimethylbenzene	20	18.5	ug/L	93	3		66	139	20
	4-Chlorotoluene	20	18.3	ug/L	92	2		66	141	20
	tert-Butylbenzene	20	18.8	ug/L	94	2		56	140	20
	1,2,4-Trimethylbenzene	20	18.1	ug/L	91	4		63	142	20
	Sec-butylbenzene	20	18.5	ug/L	93	2		63	144	20
	p-Isopropyltoluene	20	18.3	ug/L	92	1		57	147	20
	1,3-Dichlorobenzene	20	18.5	ug/L	93	3		70	130	20
	1,4-Dichlorobenzene	20	18.0	ug/L	90	5		65	135	20
	n-Butylbenzene	20	17.4	ug/L	87	6		49	157	20
	1,2-Dichlorobenzene	20	18.4	ug/L	92	4		65	135	20
	1,2-Dibromo-3-Chloropropane	20	19.0	ug/L	95	1		69	122	20
	1,2,4-Trichlorobenzene	20	17.6	ug/L	88	2		61	118	20
	Hexachlorobutadiene	20	17.6	ug/L	88	6		16	187	20
	Naphthalene	20	16.7	ug/L	84	0		45	152	20
	1,2,3-Trichlorobenzene	20	17.6	ug/L	88	2		38	159	20
	Methyl iodide	20	17.5	ug/L	88	1		70	130	20
	Methyl methacrylate	20	18.0	ug/L	90	5		70	130	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1025WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4549

SAS No.: P4549 SDG NO.: P4549

Lab File ID: VN084507.D

Lab Sample ID: VN1025WBL01

Date Analyzed: 10/25/2024

Time Analyzed: 11:27

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
VN1025WBS01	VN1025WBS01	VN084505.D	10/25/2024
VN1025WBSD01	VN1025WBSD01	VN084506.D	10/25/2024
TT-TB-20241024	P4549-01	VN084512.D	10/25/2024
TT-068-IDWGW-20241024	P4549-03	VN084515.D	10/25/2024
TT-067-IDWGW-20241024	P4549-02	VN084516.D	10/25/2024
TT-069-IDWGW-20241024	P4549-04	VN084517.D	10/25/2024

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG NO.: P4549
Lab File ID: VN084336.D BFB Injection Date: 10/08/2024
Instrument ID: MSVOA_N BFB Injection Time: 09:08
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	19
75	30.0 - 60.0% of mass 95	51.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	73.7
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.3 (95.4) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC150	VSTDIC150	VN084337.D	10/08/2024	09:43
VSTDIC100	VSTDIC100	VN084338.D	10/08/2024	10:07
VSTDIC050	VSTDIC050	VN084339.D	10/08/2024	10:31
VSTDICCC020	VSTDICCC020	VN084340.D	10/08/2024	10:55
VSTDIC005	VSTDIC005	VN084341.D	10/08/2024	11:19



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG NO.: P4549
Lab File ID: VN084502.D BFB Injection Date: 10/25/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:21
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	19.4
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	72.6 (95.4) 1
177	5.0 - 9.0% of mass 176	4.5 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN084504.D	10/25/2024	10:04
VN1025WBS01	VN1025WBS01	VN084505.D	10/25/2024	10:40
VN1025WBSD01	VN1025WBSD01	VN084506.D	10/25/2024	11:04
VN1025WBL01	VN1025WBL01	VN084507.D	10/25/2024	11:27
TT-TB-20241024	P4549-01	VN084512.D	10/25/2024	13:39
TT-068-IDWG-20241024	P4549-03	VN084515.D	10/25/2024	14:51
TT-067-IDWG-20241024	P4549-02	VN084516.D	10/25/2024	15:15
TT-069-IDWG-20241024	P4549-04	VN084517.D	10/25/2024	15:39
VSTDCCC020EC	VSTDCCC020	VN084527.D	10/25/2024	19:37

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG NO.: P4549
Lab File ID: VN084504.D Date Analyzed: 10/25/2024
Instrument ID: MSVOA_N Time Analyzed: 10:04
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	35506	7.81	200200	9.10	180518	11.87
UPPER LIMIT	71012	8.312	400400	9.6	361036	12.365
LOWER LIMIT	17753	7.312	100100	8.6	90259	11.365
EPA SAMPLE NO.						
TT-TB-20241024	29940	7.82	152700	9.10	136002	11.87
TT-067-IDWGW-20241024	28275	7.81	137388	9.10	125598	11.87
TT-068-IDWGW-20241024	29141	7.82	145814	9.10	133742	11.87
TT-069-IDWGW-20241024	27891	7.81	142505	9.10	128076	11.87
VN1025WBL01	32302	7.81	175246	9.10	150285	11.87
VN1025WBS01	35006	7.81	196424	9.10	178483	11.87
VN1025WBSD01	34702	7.81	195213	9.10	177752	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:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-TB-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-01			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
VN084512.D	1		10/25/24 13:39	VN102524

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:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-TB-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-01			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
VN084512.D	1		10/25/24 13:39	VN102524

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:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-TB-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-01			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
VN084512.D	1		10/25/24 13:39	VN102524

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	30.1		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	29.3		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.2		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29900	7.818			
540-36-3	1,4-Difluorobenzene	153000	9.1			
3114-55-4	Chlorobenzene-d5	136000	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 OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084512.D
Acq On : 25 Oct 2024 13:39
Operator : JC\MD
Sample : P4549-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20241024

Quant Time: Oct 26 05:28:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	29940	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	152700	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	136002	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	72511	30.082	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.267%
60) 4-Bromofluorobenzene	12.847	95	56463	25.155	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.867%
63) Toluene-d8	10.565	98	184720	29.318	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.733%

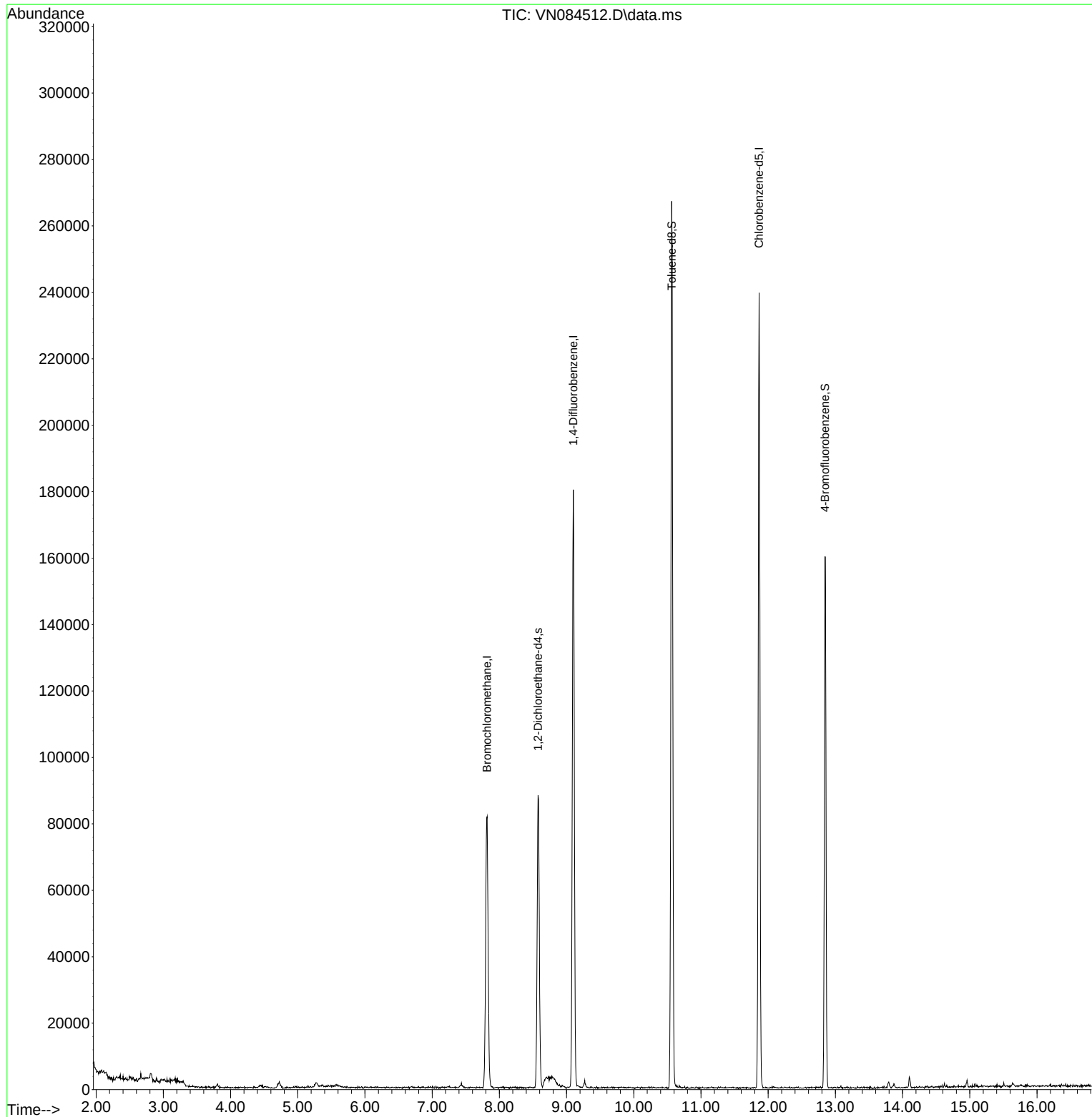
Target Compounds	Qvalue

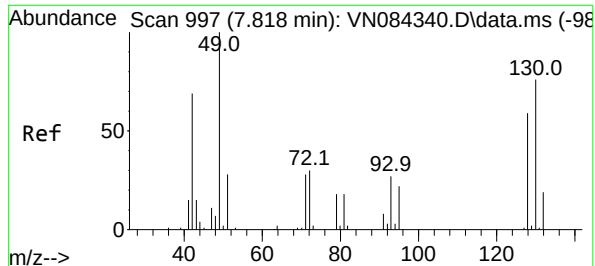
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084512.D
Acq On : 25 Oct 2024 13:39
Operator : JC\MD
Sample : P4549-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20241024

Quant Time: Oct 26 05:28:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

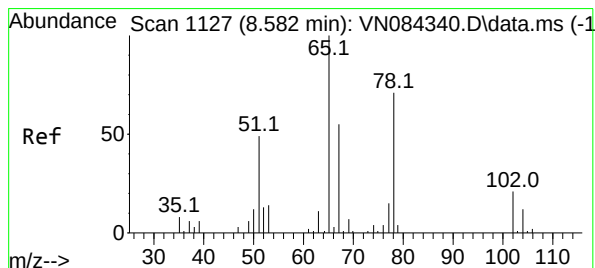
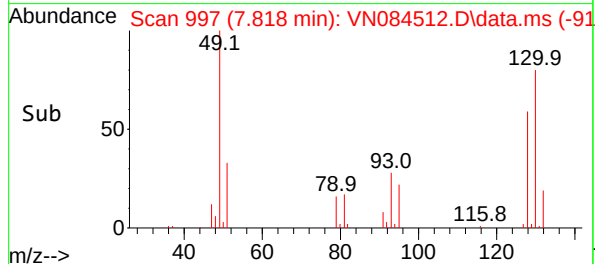
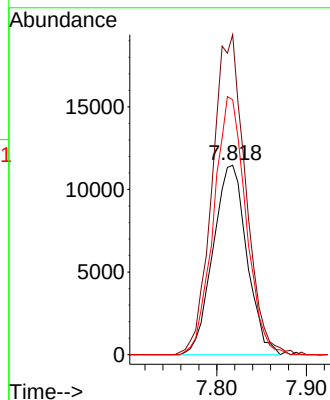
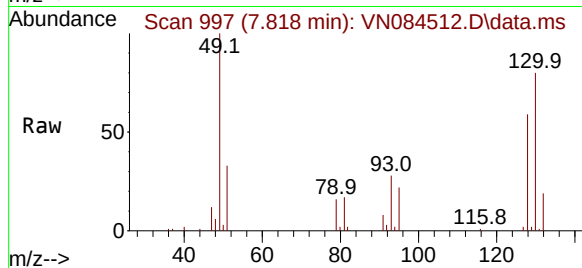




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN084512.D
Acq: 25 Oct 2024 13:39

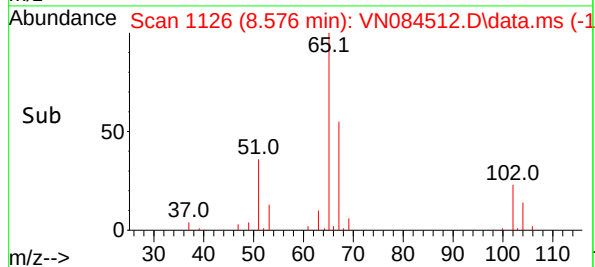
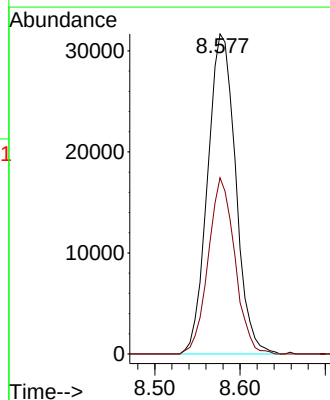
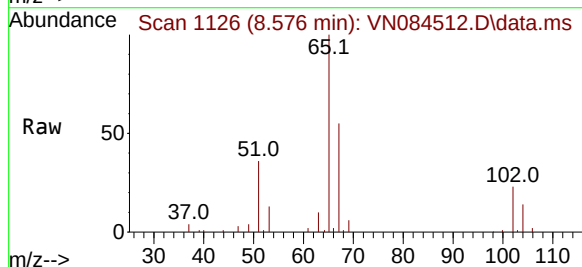
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20241024

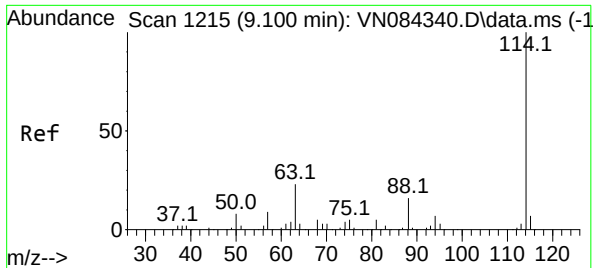
Tgt Ion	Ratio	Lower	Upper
128	100		
49	166.2	0.0	430.0
130	130.0	0.0	329.8



#27
1,2-Dichloroethane-d4
Concen: 30.082 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084512.D
Acq: 25 Oct 2024 13:39

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.3	41.5	62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084512.D

Acq: 25 Oct 2024 13:39

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20241024

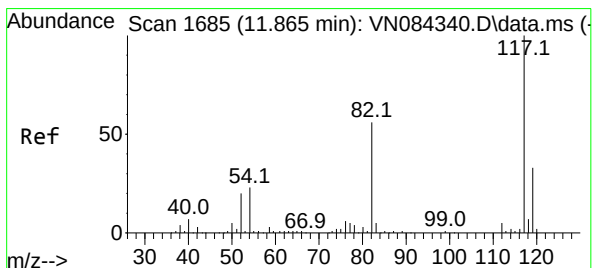
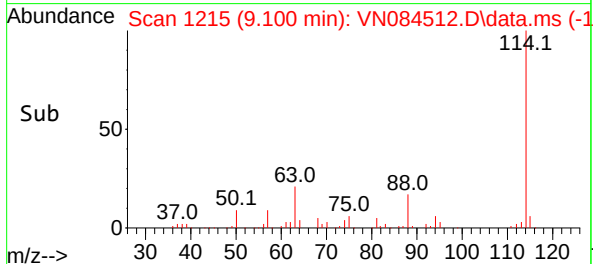
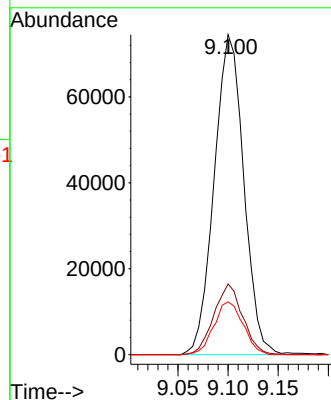
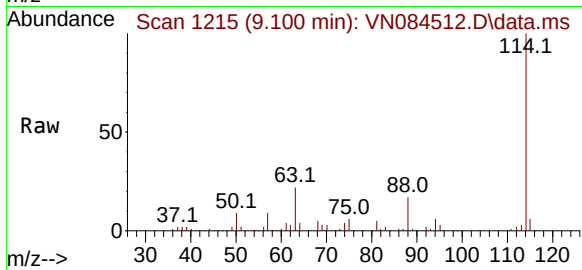
Tgt Ion:114 Resp: 152700

Ion Ratio Lower Upper

114 100

63 21.6 17.4 26.0

88 16.3 13.2 19.8



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084512.D

Acq: 25 Oct 2024 13:39

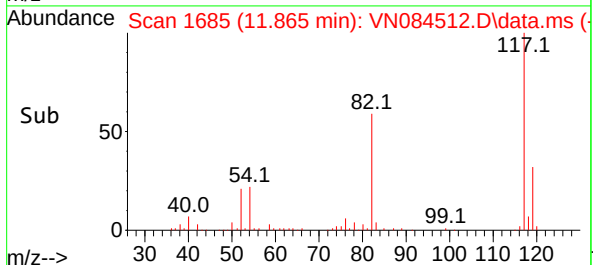
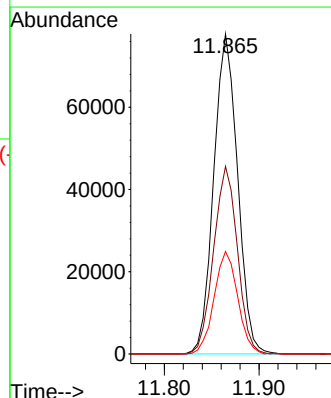
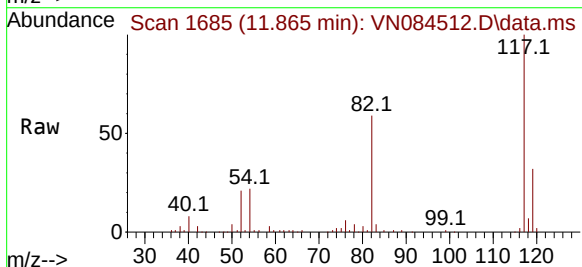
Tgt Ion:117 Resp: 136002

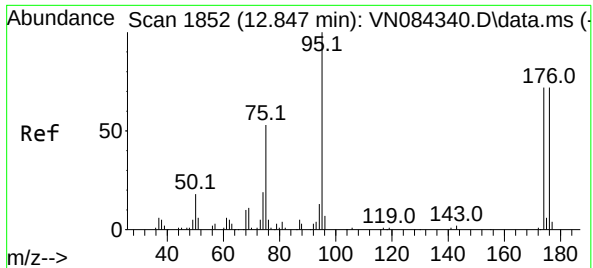
Ion Ratio Lower Upper

117 100

82 58.5 46.2 69.4

119 31.7 25.4 38.2

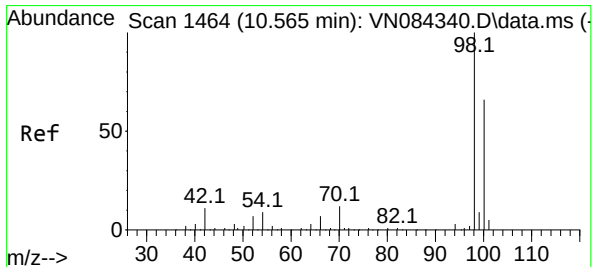
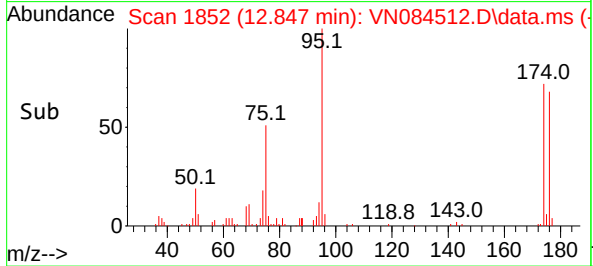
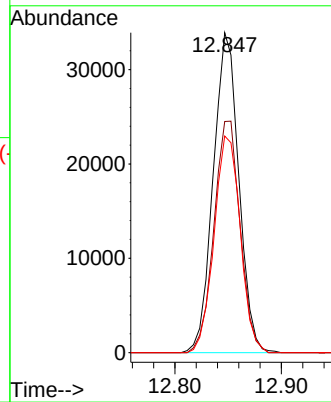
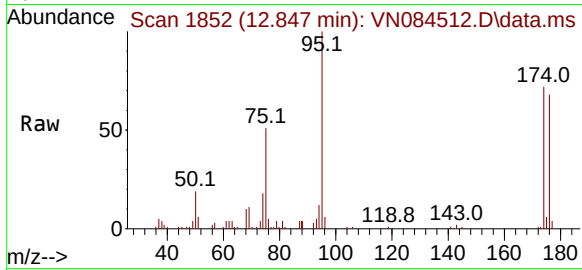




#60
4-Bromofluorobenzene
Concen: 25.155 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084512.D
Acq: 25 Oct 2024 13:39

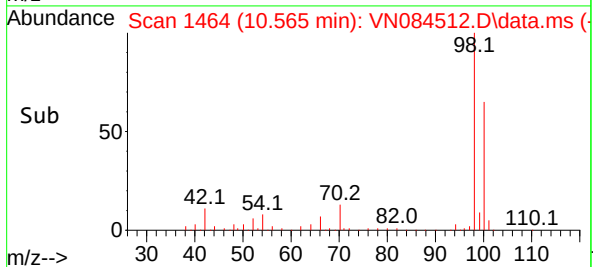
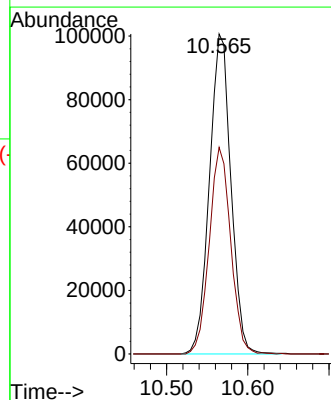
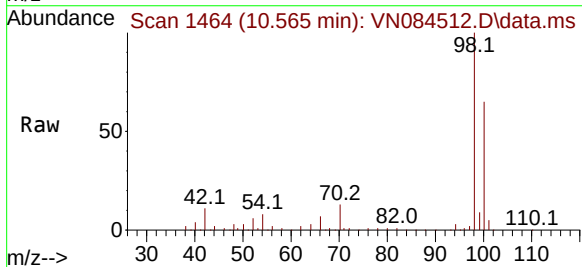
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20241024

Tgt Ion: 95 Resp: 56463
Ion Ratio Lower Upper
95 100
174 74.1 58.2 87.2
176 69.4 56.4 84.6



#63
Toluene-d8
Concen: 29.318 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084512.D
Acq: 25 Oct 2024 13:39

Tgt Ion: 98 Resp: 184720
Ion Ratio Lower Upper
98 100
100 64.2 52.5 78.7



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-067-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-02			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
VN084516.D	4		10/25/24 15:15	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	4.90	U	4.90	20.0	ug/L
74-87-3	Chloromethane	4.70	U	4.70	20.0	ug/L
75-01-4	Vinyl Chloride	4.90	U	4.90	20.0	ug/L
74-83-9	Bromomethane	5.50	U	5.50	20.0	ug/L
75-00-3	Chloroethane	11.7	U	11.7	20.0	ug/L
75-69-4	Trichlorofluoromethane	4.00	U	4.00	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4.20	U	4.20	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.20	U	4.20	20.0	ug/L
107-02-8	Acrolein	37.2	U	37.2	100	ug/L
107-13-1	Acrylonitrile	14.7	U	14.7	100	ug/L
67-64-1	Acetone	19.6	U	19.6	100	ug/L
75-15-0	Carbon Disulfide	3.70	U	3.70	20.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	3.30	U	3.30	20.0	ug/L
79-20-9	Methyl Acetate	4.90	U	4.90	20.0	ug/L
75-09-2	Methylene Chloride	4.80	U	4.80	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	3.80	U	3.80	20.0	ug/L
75-34-3	1,1-Dichloroethane	3.20	U	3.20	20.0	ug/L
110-82-7	Cyclohexane	4.10	U	4.10	20.0	ug/L
78-93-3	2-Butanone	14.2	U	14.2	100	ug/L
56-23-5	Carbon Tetrachloride	3.60	U	3.60	20.0	ug/L
594-20-7	2,2-Dichloropropane	4.60	U	4.60	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.60	U	3.60	20.0	ug/L
67-66-3	Chloroform	2.90	U	2.90	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	3.20	U	3.20	20.0	ug/L
108-87-2	Methylcyclohexane	3.60	U	3.60	20.0	ug/L
563-58-6	1,1-Dichloropropene	3.00	U	3.00	20.0	ug/L
71-43-2	Benzene	2.80	U	2.80	20.0	ug/L
107-06-2	1,2-Dichloroethane	3.00	U	3.00	20.0	ug/L
79-01-6	Trichloroethene	3.80	J	3.10	20.0	ug/L
78-87-5	1,2-Dichloropropane	2.60	U	2.60	20.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-067-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-02			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
VN084516.D	4		10/25/24 15:15	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	2.80	U	2.80	20.0	ug/L
75-27-4	Bromodichloromethane	3.20	U	3.20	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	16.6	U	16.6	100	ug/L
108-88-3	Toluene	2.90	U	2.90	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	3.20	U	3.20	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	3.30	U	3.30	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.70	U	2.70	20.0	ug/L
142-28-9	1,3-Dichloropropane	2.70	U	2.70	20.0	ug/L
591-78-6	2-Hexanone	15.8	U	15.8	100	ug/L
124-48-1	Dibromochloromethane	2.90	U	2.90	20.0	ug/L
106-93-4	1,2-Dibromoethane	3.10	U	3.10	20.0	ug/L
127-18-4	Tetrachloroethene	3.80	U	3.80	20.0	ug/L
108-90-7	Chlorobenzene	2.70	U	2.70	20.0	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	3.60	U	3.60	20.0	ug/L
67-72-1	Hexachloroethane	3.60	U	3.60	20.0	ug/L
100-41-4	Ethyl Benzene	2.90	U	2.90	20.0	ug/L
179601-23-1	m/p-Xylenes	6.90	U	6.90	40.0	ug/L
95-47-6	o-Xylene	3.30	U	3.30	20.0	ug/L
100-42-5	Styrene	3.20	U	3.20	20.0	ug/L
75-25-2	Bromoform	4.00	U	4.00	20.0	ug/L
98-82-8	Isopropylbenzene	3.40	U	3.40	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	2.40	20.0	ug/L
96-18-4	1,2,3-Trichloropropane	6.90	U	6.90	20.0	ug/L
108-86-1	Bromobenzene	2.80	U	2.80	20.0	ug/L
103-65-1	n-propylbenzene	3.20	U	3.20	20.0	ug/L
95-49-8	2-Chlorotoluene	3.20	U	3.20	20.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.00	U	3.00	20.0	ug/L
106-43-4	4-Chlorotoluene	3.30	U	3.30	20.0	ug/L
98-06-6	tert-butylbenzene	3.10	U	3.10	20.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.30	U	3.30	20.0	ug/L
135-98-8	sec-Butylbenzene	3.10	U	3.10	20.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-067-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-02			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
VN084516.D	4		10/25/24 15:15	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	3.30	U	3.30	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	3.80	U	3.80	20.0	ug/L
104-51-8	n-Butylbenzene	3.40	U	3.40	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.60	U	3.60	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	4.40	U	4.40	20.0	ug/L
87-68-3	Hexachlorobutadiene	4.40	U	4.40	20.0	ug/L
91-20-3	Naphthalene	5.80	U	5.80	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.60	U	5.60	20.0	ug/L
74-88-4	Methyl Iodide	3.80	U	3.80	20.0	ug/L
80-62-6	Methyl methacrylate	4.00	U	4.00	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.0		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	28.5		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.2		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28300	7.812			
540-36-3	1,4-Difluorobenzene	137000	9.1			
3114-55-4	Chlorobenzene-d5	126000	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\VN102524\
Data File : VN084516.D
Acq On : 25 Oct 2024 15:15
Operator : JC\MD
Sample : P4549-02 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-067-IDWGW-20241024

Quant Time: Oct 26 05:30:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

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

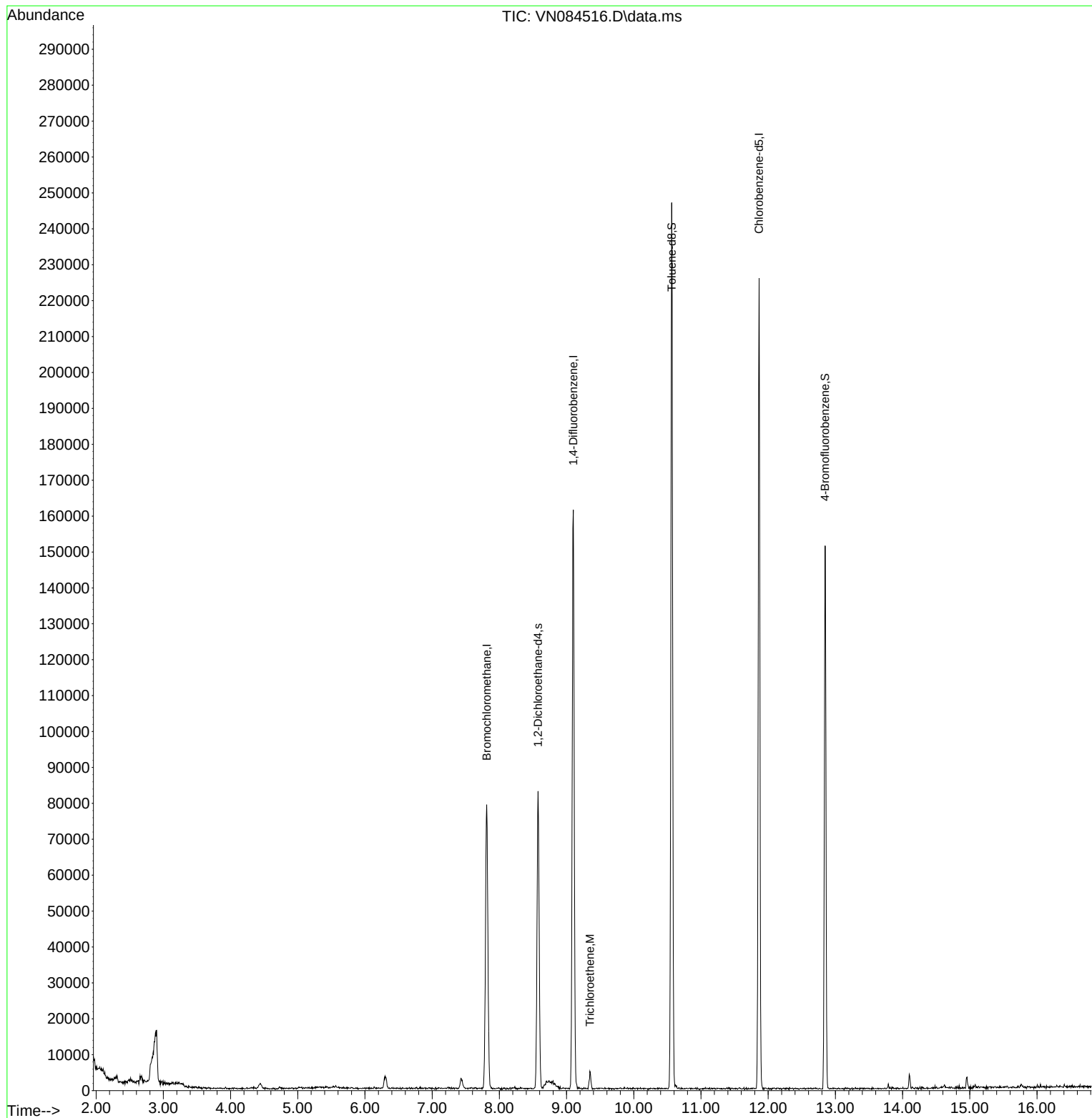
Internal Standards						
1) Bromochloromethane	7.812	128	28275	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	137388	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125598	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	68323	30.014	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.033%
60) 4-Bromofluorobenzene	12.847	95	52227	25.195	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.000%
63) Toluene-d8	10.565	98	166090	28.545	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.167%
Target Compounds						
37) Trichloroethene	9.347	130	1528	0.940	ug/l	Qvalue 99

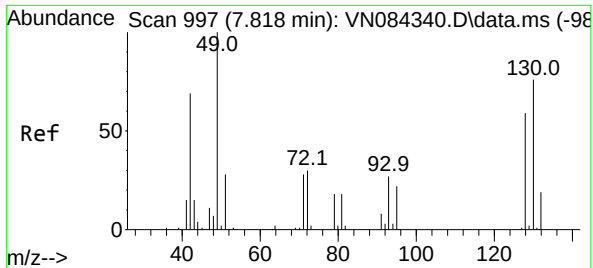
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084516.D
Acq On : 25 Oct 2024 15:15
Operator : JC\MD
Sample : P4549-02 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-067-IDWGW-20241024

Quant Time: Oct 26 05:30:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

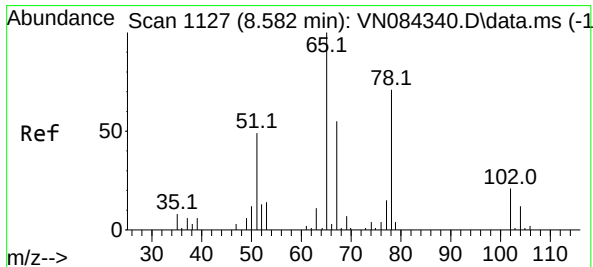
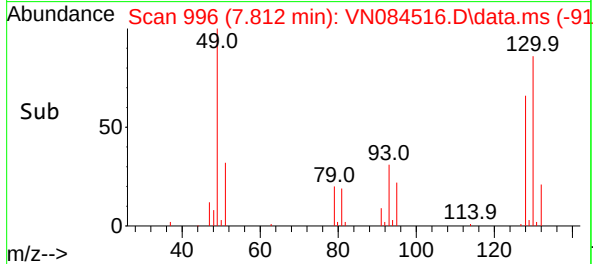
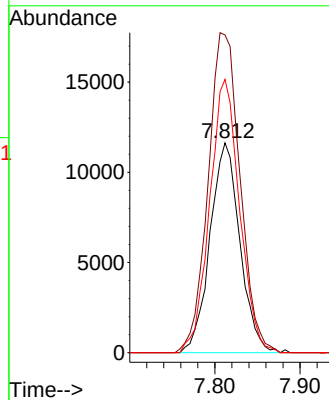
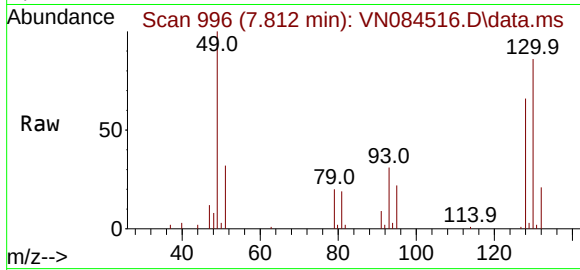




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN084516.D
Acq: 25 Oct 2024 15:15

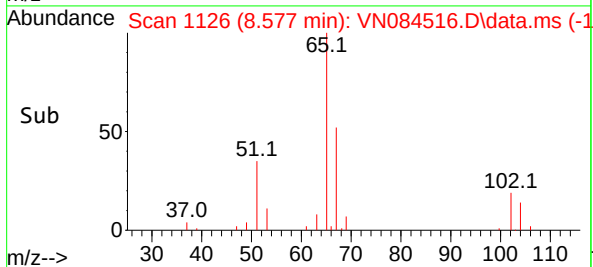
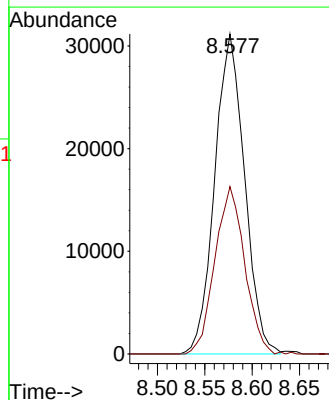
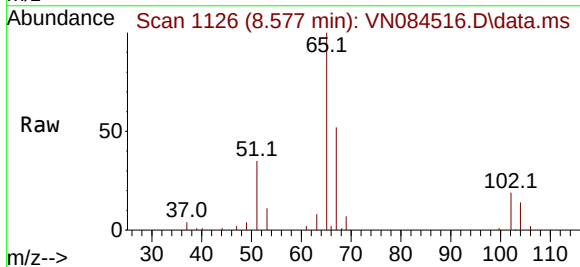
Instrument :
MSVOA_N
ClientSampleId :
TT-067-IDWGW-20241024

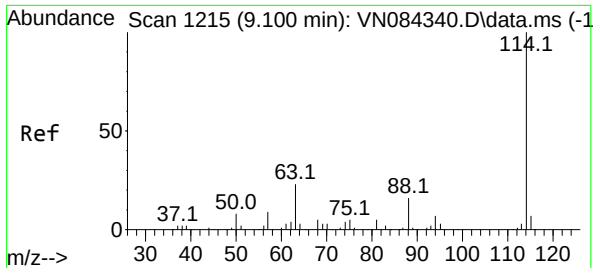
Tgt Ion	Ratio	Lower	Upper
128	100		
49	163.6	0.0	430.0
130	130.9	0.0	329.8



#27
1,2-Dichloroethane-d4
Concen: 30.014 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084516.D
Acq: 25 Oct 2024 15:15

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.1	41.5	62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084516.D

Acq: 25 Oct 2024 15:15

Instrument :

MSVOA_N

ClientSampleId :

TT-067-IDWGW-20241024

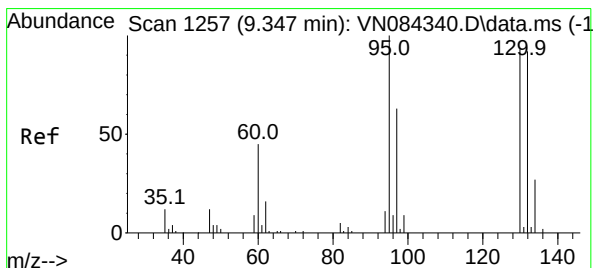
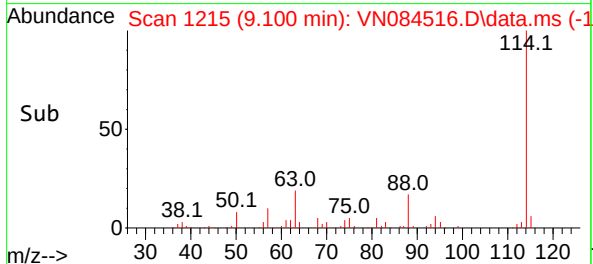
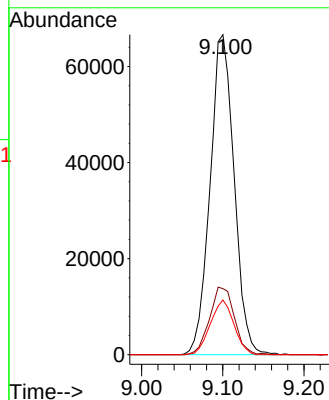
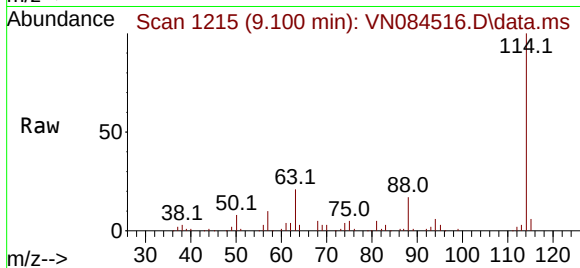
Tgt Ion:114 Resp: 137388

Ion Ratio Lower Upper

114 100

63 21.6 17.4 26.0

88 16.7 13.2 19.8



#37

Trichloroethene

Concen: 0.940 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084516.D

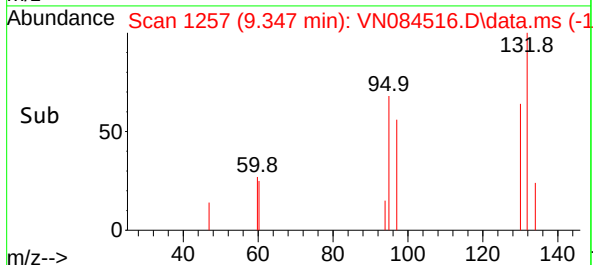
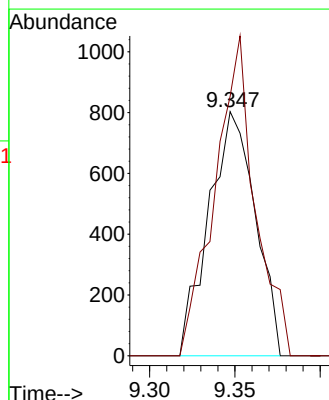
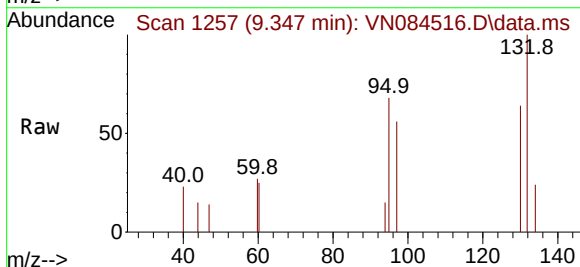
Acq: 25 Oct 2024 15:15

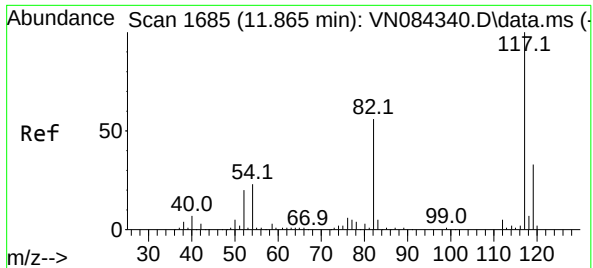
Tgt Ion:130 Resp: 1528

Ion Ratio Lower Upper

130 100

95 106.2 85.8 128.6





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084516.D

Acq: 25 Oct 2024 15:15

Instrument :

MSVOA_N

ClientSampleId :

TT-067-IDWGW-20241024

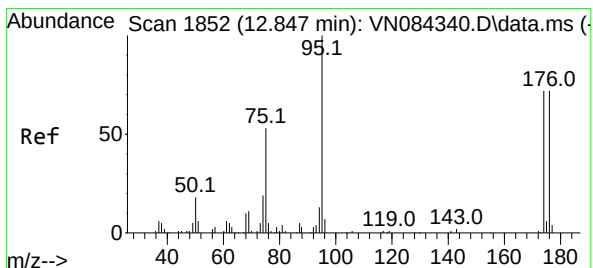
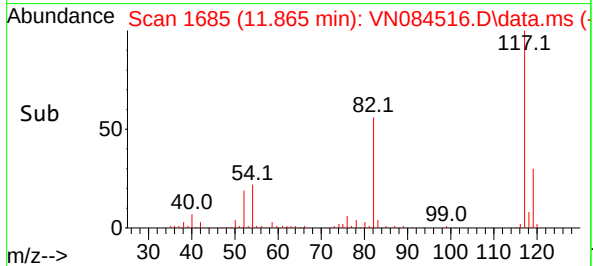
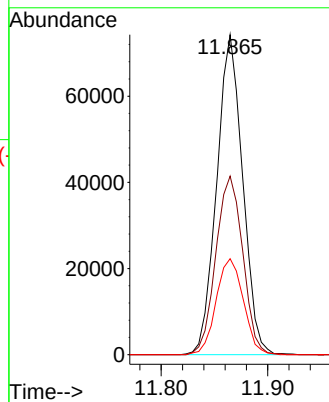
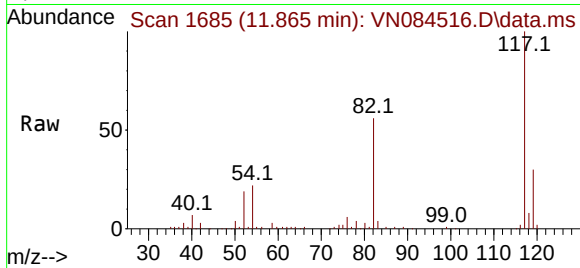
Tgt Ion:117 Resp: 125598

Ion Ratio Lower Upper

117 100

82 58.0 46.2 69.4

119 31.5 25.4 38.2



#60

4-Bromofluorobenzene

Concen: 25.195 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084516.D

Acq: 25 Oct 2024 15:15

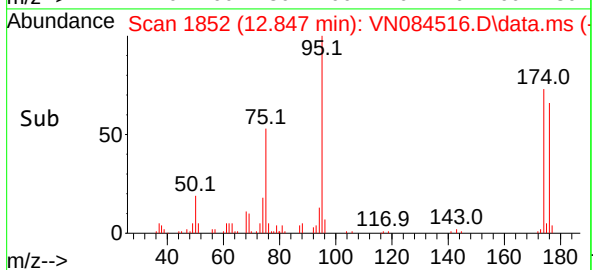
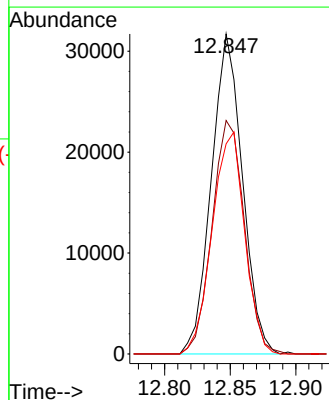
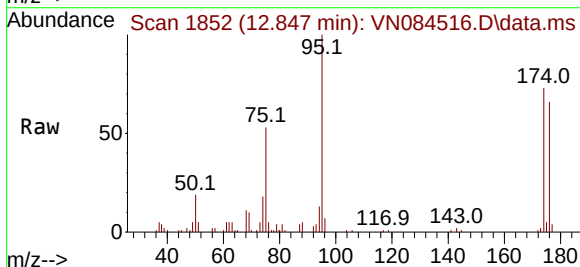
Tgt Ion: 95 Resp: 52227

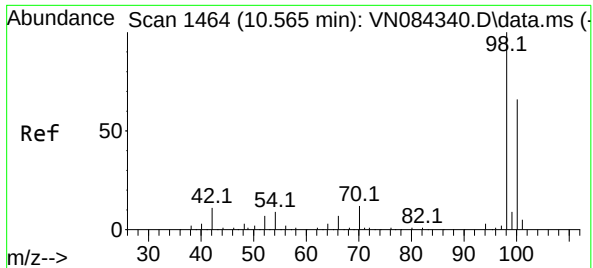
Ion Ratio Lower Upper

95 100

174 75.7 58.2 87.2

176 72.4 56.4 84.6





#63

Toluene-d8

Concen: 28.545 ug/l

RT: 10.565 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN084516.D

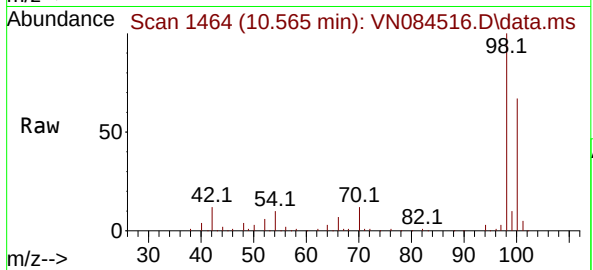
Acq: 25 Oct 2024 15:15

Instrument :

MSVOA_N

ClientSampleId :

TT-067-IDWGW-20241024

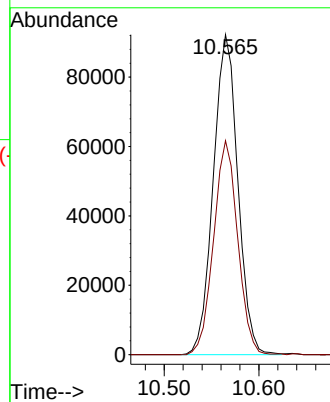
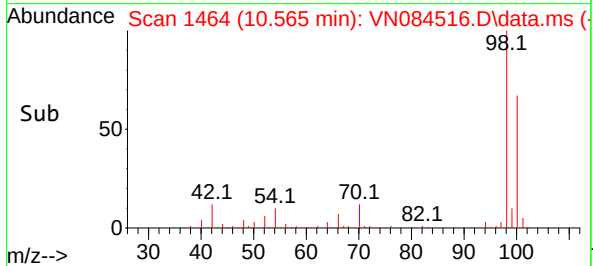


Tgt Ion: 98 Resp: 166090

Ion Ratio Lower Upper

98 100

100 65.5 52.5 78.7



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-068-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-03			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
VN084515.D	4		10/25/24 14:51	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	4.90	U	4.90	20.0	ug/L
74-87-3	Chloromethane	4.70	U	4.70	20.0	ug/L
75-01-4	Vinyl Chloride	4.90	U	4.90	20.0	ug/L
74-83-9	Bromomethane	5.50	U	5.50	20.0	ug/L
75-00-3	Chloroethane	11.7	U	11.7	20.0	ug/L
75-69-4	Trichlorofluoromethane	4.00	U	4.00	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4.20	U	4.20	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.20	U	4.20	20.0	ug/L
107-02-8	Acrolein	37.2	U	37.2	100	ug/L
107-13-1	Acrylonitrile	14.7	U	14.7	100	ug/L
67-64-1	Acetone	19.6	U	19.6	100	ug/L
75-15-0	Carbon Disulfide	3.70	U	3.70	20.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	3.30	U	3.30	20.0	ug/L
79-20-9	Methyl Acetate	4.90	U	4.90	20.0	ug/L
75-09-2	Methylene Chloride	4.80	U	4.80	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	3.80	U	3.80	20.0	ug/L
75-34-3	1,1-Dichloroethane	3.20	U	3.20	20.0	ug/L
110-82-7	Cyclohexane	4.10	U	4.10	20.0	ug/L
78-93-3	2-Butanone	14.2	U	14.2	100	ug/L
56-23-5	Carbon Tetrachloride	3.60	U	3.60	20.0	ug/L
594-20-7	2,2-Dichloropropane	4.60	U	4.60	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.60	U	3.60	20.0	ug/L
67-66-3	Chloroform	2.90	U	2.90	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	3.20	U	3.20	20.0	ug/L
108-87-2	Methylcyclohexane	3.60	U	3.60	20.0	ug/L
563-58-6	1,1-Dichloropropene	3.00	U	3.00	20.0	ug/L
71-43-2	Benzene	2.80	U	2.80	20.0	ug/L
107-06-2	1,2-Dichloroethane	3.00	U	3.00	20.0	ug/L
79-01-6	Trichloroethene	25.2		3.10	20.0	ug/L
78-87-5	1,2-Dichloropropane	2.60	U	2.60	20.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-068-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-03			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
VN084515.D	4		10/25/24 14:51	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	2.80	U	2.80	20.0	ug/L
75-27-4	Bromodichloromethane	3.20	U	3.20	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	16.6	U	16.6	100	ug/L
108-88-3	Toluene	2.90	U	2.90	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	3.20	U	3.20	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	3.30	U	3.30	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.70	U	2.70	20.0	ug/L
142-28-9	1,3-Dichloropropane	2.70	U	2.70	20.0	ug/L
591-78-6	2-Hexanone	15.8	U	15.8	100	ug/L
124-48-1	Dibromochloromethane	2.90	U	2.90	20.0	ug/L
106-93-4	1,2-Dibromoethane	3.10	U	3.10	20.0	ug/L
127-18-4	Tetrachloroethene	3.80	U	3.80	20.0	ug/L
108-90-7	Chlorobenzene	2.70	U	2.70	20.0	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	3.60	U	3.60	20.0	ug/L
67-72-1	Hexachloroethane	3.60	U	3.60	20.0	ug/L
100-41-4	Ethyl Benzene	2.90	U	2.90	20.0	ug/L
179601-23-1	m/p-Xylenes	6.90	U	6.90	40.0	ug/L
95-47-6	o-Xylene	3.30	U	3.30	20.0	ug/L
100-42-5	Styrene	3.20	U	3.20	20.0	ug/L
75-25-2	Bromoform	4.00	U	4.00	20.0	ug/L
98-82-8	Isopropylbenzene	3.40	U	3.40	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	2.40	20.0	ug/L
96-18-4	1,2,3-Trichloropropane	6.90	U	6.90	20.0	ug/L
108-86-1	Bromobenzene	2.80	U	2.80	20.0	ug/L
103-65-1	n-propylbenzene	3.20	U	3.20	20.0	ug/L
95-49-8	2-Chlorotoluene	3.20	U	3.20	20.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.00	U	3.00	20.0	ug/L
106-43-4	4-Chlorotoluene	3.30	U	3.30	20.0	ug/L
98-06-6	tert-butylbenzene	3.10	U	3.10	20.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.30	U	3.30	20.0	ug/L
135-98-8	sec-Butylbenzene	3.10	U	3.10	20.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-068-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-03			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
VN084515.D	4		10/25/24 14:51	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	3.30	U	3.30	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	3.80	U	3.80	20.0	ug/L
104-51-8	n-Butylbenzene	3.40	U	3.40	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.60	U	3.60	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	4.40	U	4.40	20.0	ug/L
87-68-3	Hexachlorobutadiene	4.40	U	4.40	20.0	ug/L
91-20-3	Naphthalene	5.80	U	5.80	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.60	U	5.60	20.0	ug/L
74-88-4	Methyl Iodide	3.80	U	3.80	20.0	ug/L
80-62-6	Methyl methacrylate	4.00	U	4.00	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.0		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	28.6		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.7		63 - 112	82%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29100	7.818			
540-36-3	1,4-Difluorobenzene	146000	9.1			
3114-55-4	Chlorobenzene-d5	134000	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\VN102524\
Data File : VN084515.D
Acq On : 25 Oct 2024 14:51
Operator : JC\MD
Sample : P4549-03 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-068-IDWGW-20241024

Quant Time: Oct 26 05:30:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

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

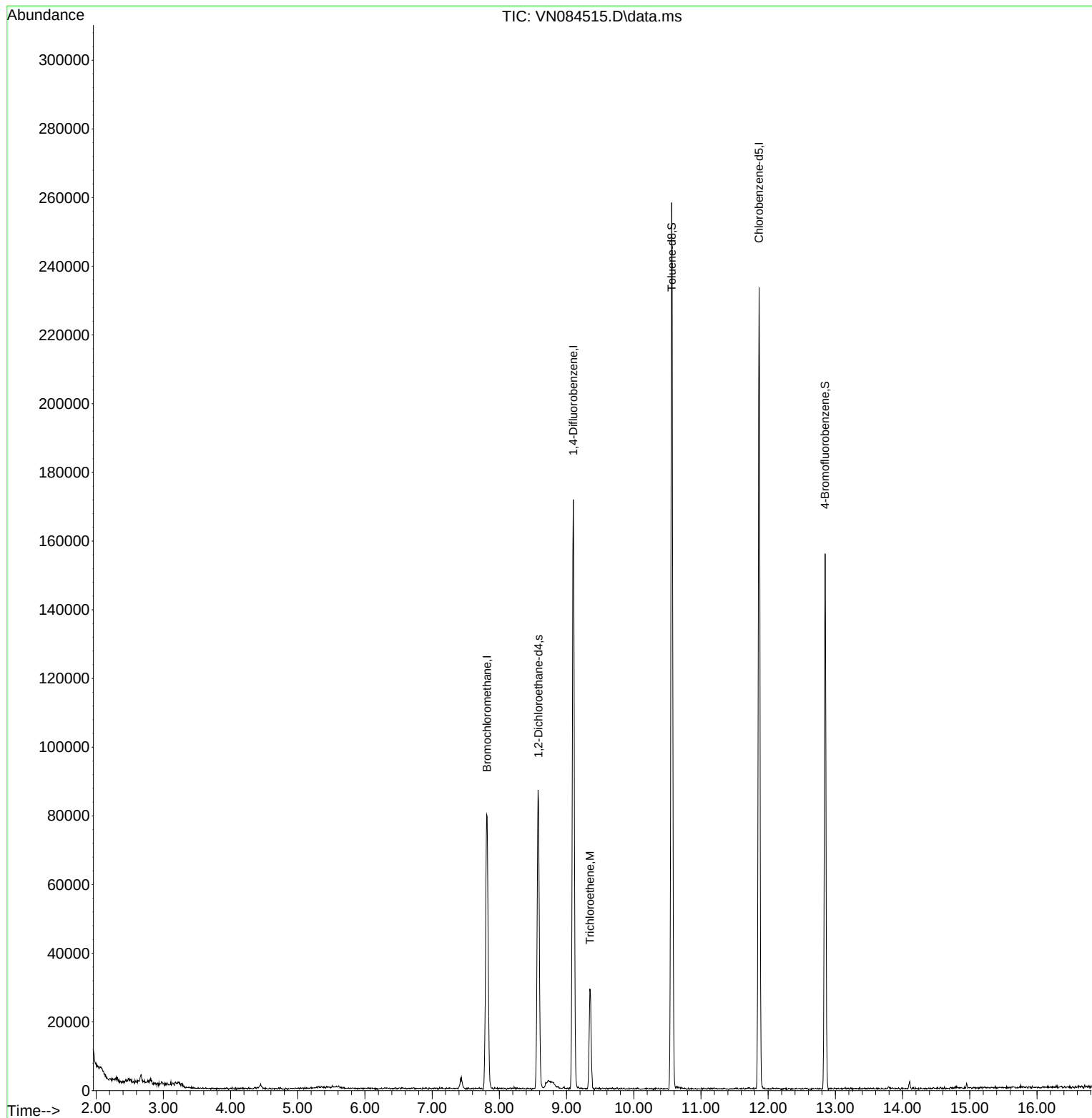
Internal Standards						
1) Bromochloromethane	7.818	128	29141	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	145814	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	133742	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	72625	30.955	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.200%
60) 4-Bromofluorobenzene	12.847	95	54509	24.695	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.300%
63) Toluene-d8	10.565	98	177237	28.606	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.367%
Target Compounds						
37) Trichloroethene	9.347	130	10865	6.297	ug/l	Qvalue 93

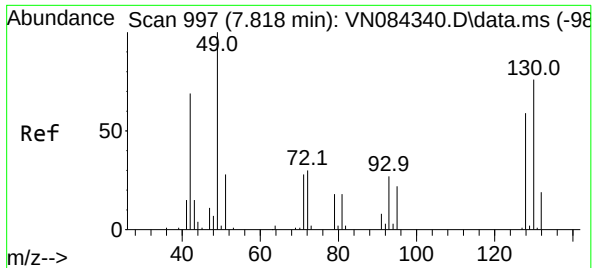
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084515.D
Acq On : 25 Oct 2024 14:51
Operator : JC\MD
Sample : P4549-03 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-068-IDWGW-20241024

Quant Time: Oct 26 05:30:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

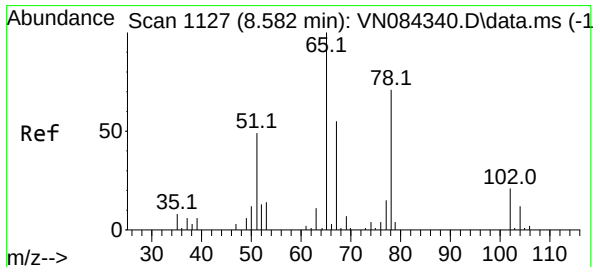
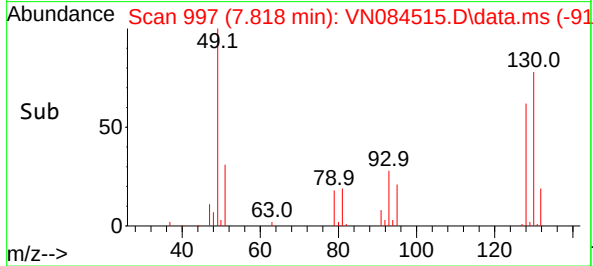
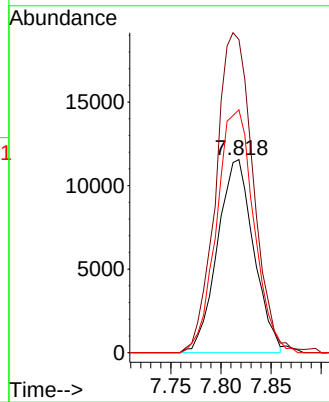
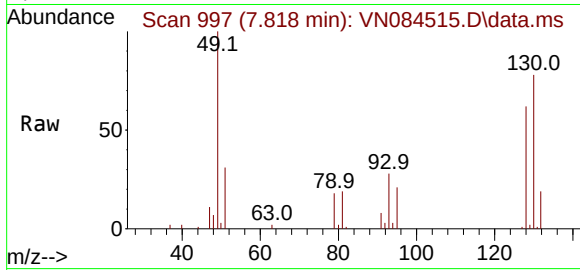




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN084515.D
Acq: 25 Oct 2024 14:51

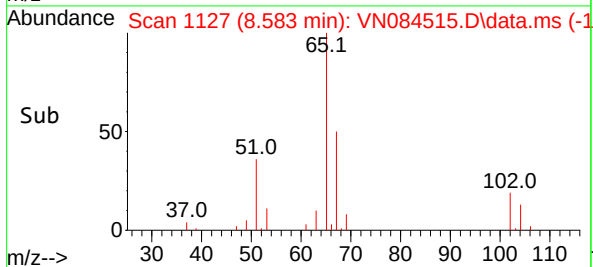
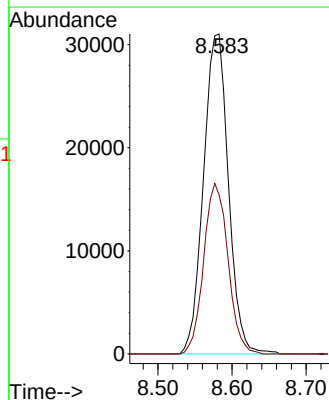
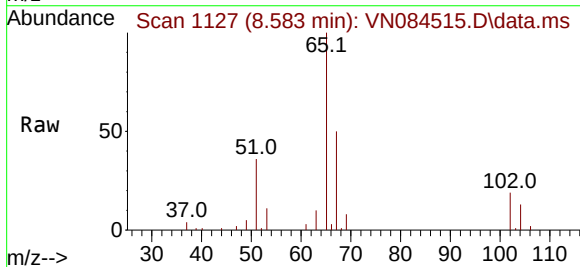
Instrument :
MSVOA_N
ClientSampleId :
TT-068-IDWGW-20241024

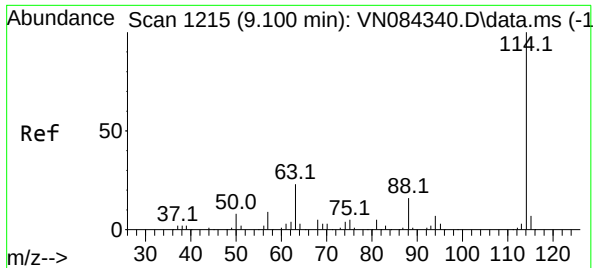
Tgt Ion	Ratio	Lower	Upper
128	100		
49	170.2	0.0	430.0
130	129.3	0.0	329.8



#27
1,2-Dichloroethane-d4
Concen: 30.955 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN084515.D
Acq: 25 Oct 2024 14:51

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.0	41.5	62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084515.D

Acq: 25 Oct 2024 14:51

Instrument :

MSVOA_N

ClientSampleId :

TT-068-IDWGW-20241024

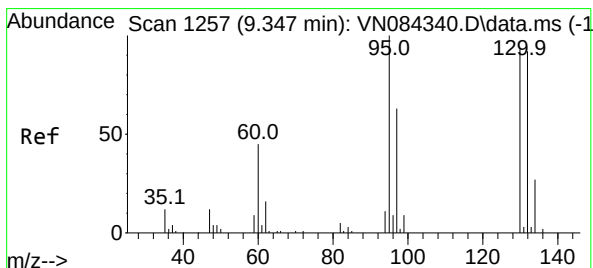
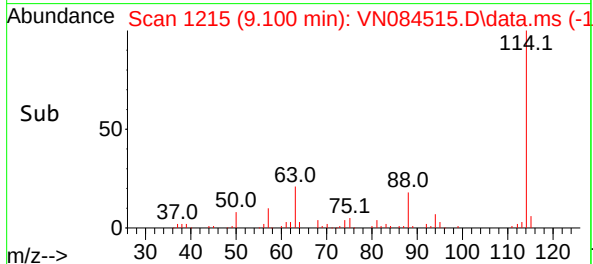
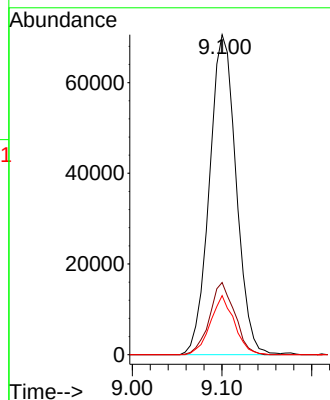
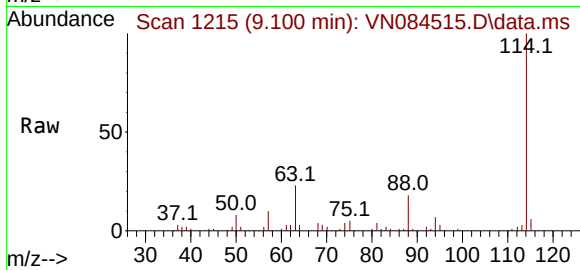
Tgt Ion:114 Resp: 145814

Ion Ratio Lower Upper

114 100

63 21.2 17.4 26.0

88 16.6 13.2 19.8



#37

Trichloroethene

Concen: 6.297 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084515.D

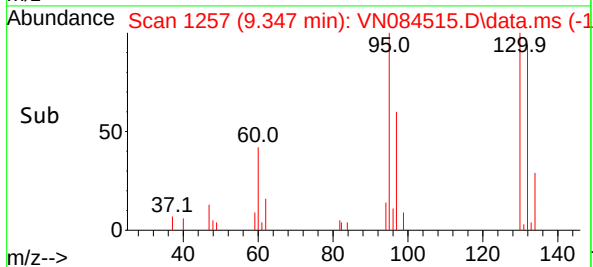
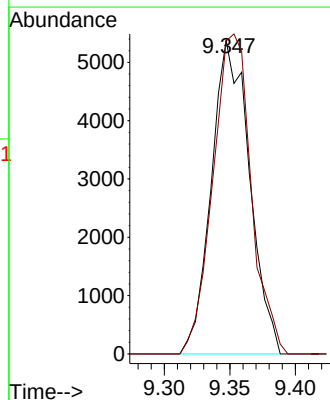
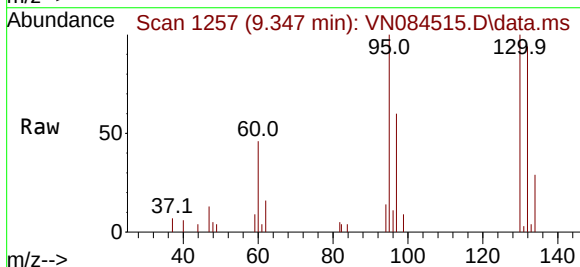
Acq: 25 Oct 2024 14:51

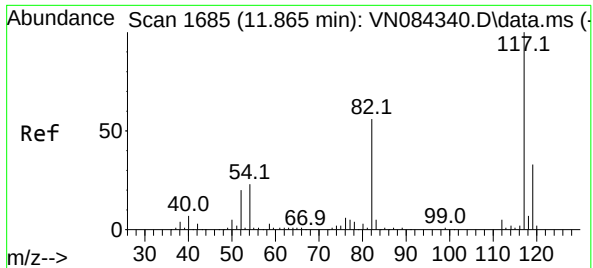
Tgt Ion:130 Resp: 10865

Ion Ratio Lower Upper

130 100

95 99.8 85.8 128.6

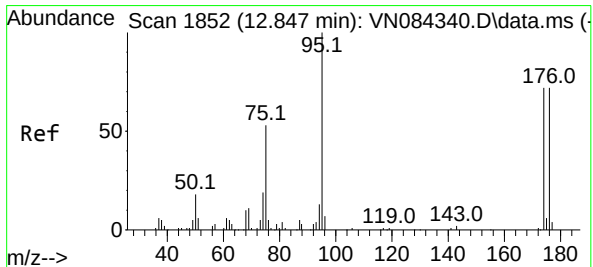
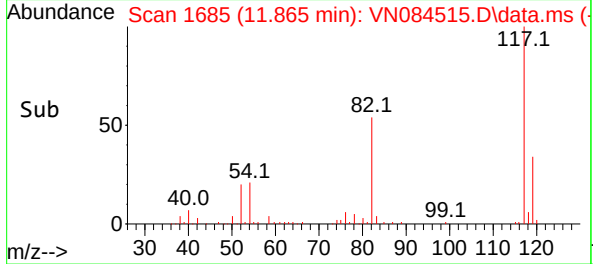
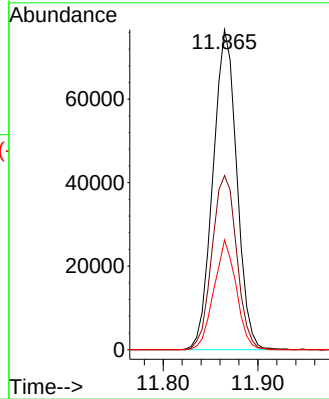
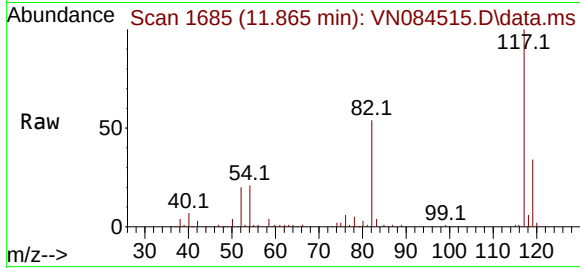




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN084515.D
Acq: 25 Oct 2024 14:51

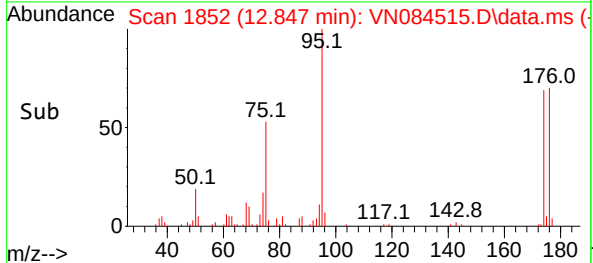
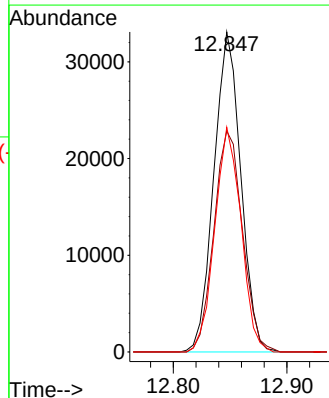
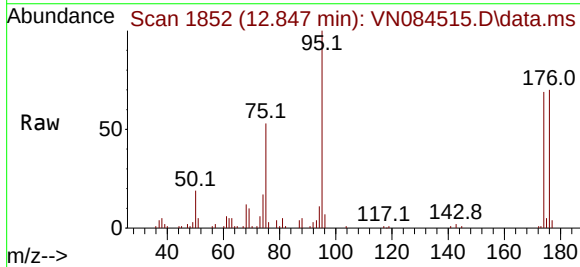
Instrument :
MSVOA_N
ClientSampleId :
TT-068-IDWGW-20241024

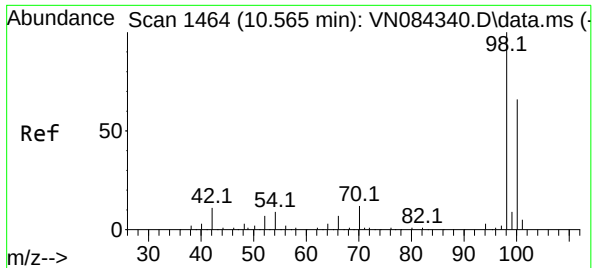
Tgt Ion:117 Resp: 133742
Ion Ratio Lower Upper
117 100
82 56.6 46.2 69.4
119 32.2 25.4 38.2



#60
4-Bromofluorobenzene
Concen: 24.695 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084515.D
Acq: 25 Oct 2024 14:51

Tgt Ion: 95 Resp: 54509
Ion Ratio Lower Upper
95 100
174 73.4 58.2 87.2
176 68.5 56.4 84.6





#63

Toluene-d8

Concen: 28.606 ug/l

RT: 10.565 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN084515.D

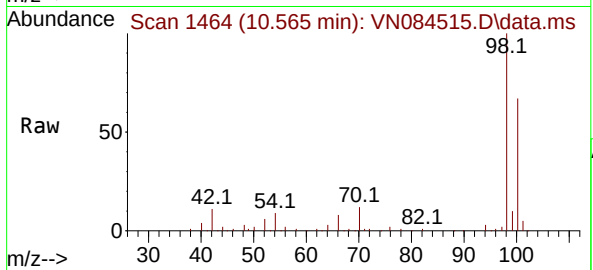
Acq: 25 Oct 2024 14:51

Instrument :

MSVOA_N

ClientSampleId :

TT-068-IDWGW-20241024

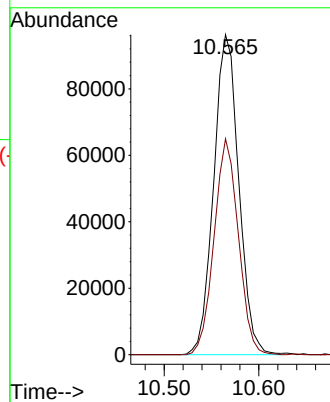
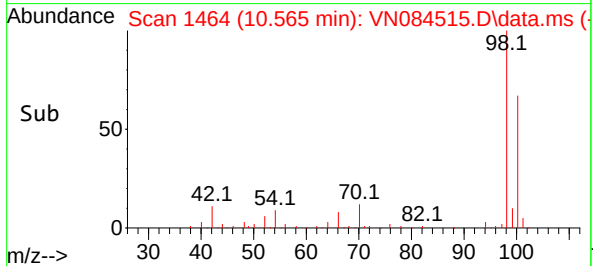


Tgt Ion: 98 Resp: 177237

Ion Ratio Lower Upper

98 100

100 65.2 52.5 78.7



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-069-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-04			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
VN084517.D	4		10/25/24 15:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	4.90	U	4.90	20.0	ug/L
74-87-3	Chloromethane	4.70	U	4.70	20.0	ug/L
75-01-4	Vinyl Chloride	4.90	U	4.90	20.0	ug/L
74-83-9	Bromomethane	5.50	U	5.50	20.0	ug/L
75-00-3	Chloroethane	11.7	U	11.7	20.0	ug/L
75-69-4	Trichlorofluoromethane	4.00	U	4.00	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4.20	U	4.20	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.20	U	4.20	20.0	ug/L
107-02-8	Acrolein	37.2	U	37.2	100	ug/L
107-13-1	Acrylonitrile	14.7	U	14.7	100	ug/L
67-64-1	Acetone	19.6	U	19.6	100	ug/L
75-15-0	Carbon Disulfide	3.70	U	3.70	20.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	3.30	U	3.30	20.0	ug/L
79-20-9	Methyl Acetate	4.90	U	4.90	20.0	ug/L
75-09-2	Methylene Chloride	4.80	U	4.80	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	3.80	U	3.80	20.0	ug/L
75-34-3	1,1-Dichloroethane	3.20	U	3.20	20.0	ug/L
110-82-7	Cyclohexane	4.10	U	4.10	20.0	ug/L
78-93-3	2-Butanone	14.2	U	14.2	100	ug/L
56-23-5	Carbon Tetrachloride	3.60	U	3.60	20.0	ug/L
594-20-7	2,2-Dichloropropane	4.60	U	4.60	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.60	U	3.60	20.0	ug/L
67-66-3	Chloroform	2.90	U	2.90	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	3.20	U	3.20	20.0	ug/L
108-87-2	Methylcyclohexane	3.60	U	3.60	20.0	ug/L
563-58-6	1,1-Dichloropropene	3.00	U	3.00	20.0	ug/L
71-43-2	Benzene	2.80	U	2.80	20.0	ug/L
107-06-2	1,2-Dichloroethane	3.00	U	3.00	20.0	ug/L
79-01-6	Trichloroethene	26.2		3.10	20.0	ug/L
78-87-5	1,2-Dichloropropane	2.60	U	2.60	20.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-069-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-04			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
VN084517.D	4		10/25/24 15:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	2.80	U	2.80	20.0	ug/L
75-27-4	Bromodichloromethane	3.20	U	3.20	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	16.6	U	16.6	100	ug/L
108-88-3	Toluene	2.90	U	2.90	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	3.20	U	3.20	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	3.30	U	3.30	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.70	U	2.70	20.0	ug/L
142-28-9	1,3-Dichloropropane	2.70	U	2.70	20.0	ug/L
591-78-6	2-Hexanone	15.8	U	15.8	100	ug/L
124-48-1	Dibromochloromethane	2.90	U	2.90	20.0	ug/L
106-93-4	1,2-Dibromoethane	3.10	U	3.10	20.0	ug/L
127-18-4	Tetrachloroethene	3.80	U	3.80	20.0	ug/L
108-90-7	Chlorobenzene	2.70	U	2.70	20.0	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	3.60	U	3.60	20.0	ug/L
67-72-1	Hexachloroethane	3.60	U	3.60	20.0	ug/L
100-41-4	Ethyl Benzene	2.90	U	2.90	20.0	ug/L
179601-23-1	m/p-Xylenes	6.90	U	6.90	40.0	ug/L
95-47-6	o-Xylene	3.30	U	3.30	20.0	ug/L
100-42-5	Styrene	3.20	U	3.20	20.0	ug/L
75-25-2	Bromoform	4.00	U	4.00	20.0	ug/L
98-82-8	Isopropylbenzene	3.40	U	3.40	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	2.40	20.0	ug/L
96-18-4	1,2,3-Trichloropropane	6.90	U	6.90	20.0	ug/L
108-86-1	Bromobenzene	2.80	U	2.80	20.0	ug/L
103-65-1	n-propylbenzene	3.20	U	3.20	20.0	ug/L
95-49-8	2-Chlorotoluene	3.20	U	3.20	20.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.00	U	3.00	20.0	ug/L
106-43-4	4-Chlorotoluene	3.30	U	3.30	20.0	ug/L
98-06-6	tert-butylbenzene	3.10	U	3.10	20.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.30	U	3.30	20.0	ug/L
135-98-8	sec-Butylbenzene	3.10	U	3.10	20.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	10/24/24	
Project:	CTO WE13			Date Received:	10/24/24	
Client Sample ID:	TT-069-IDWGW-20241024			SDG No.:	P4549	
Lab Sample ID:	P4549-04			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
VN084517.D	4		10/25/24 15:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	3.30	U	3.30	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	3.80	U	3.80	20.0	ug/L
104-51-8	n-Butylbenzene	3.40	U	3.40	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.60	U	3.60	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	4.40	U	4.40	20.0	ug/L
87-68-3	Hexachlorobutadiene	4.40	U	4.40	20.0	ug/L
91-20-3	Naphthalene	5.80	U	5.80	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.60	U	5.60	20.0	ug/L
74-88-4	Methyl Iodide	3.80	U	3.80	20.0	ug/L
80-62-6	Methyl methacrylate	4.00	U	4.00	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.1		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.8		63 - 112	86%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	27900	7.812			
540-36-3	1,4-Difluorobenzene	143000	9.1			
3114-55-4	Chlorobenzene-d5	128000	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 OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084517.D
Acq On : 25 Oct 2024 15:39
Operator : JC\MD
Sample : P4549-04 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-069-IDWGW-20241024

Quant Time: Oct 26 05:31:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

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

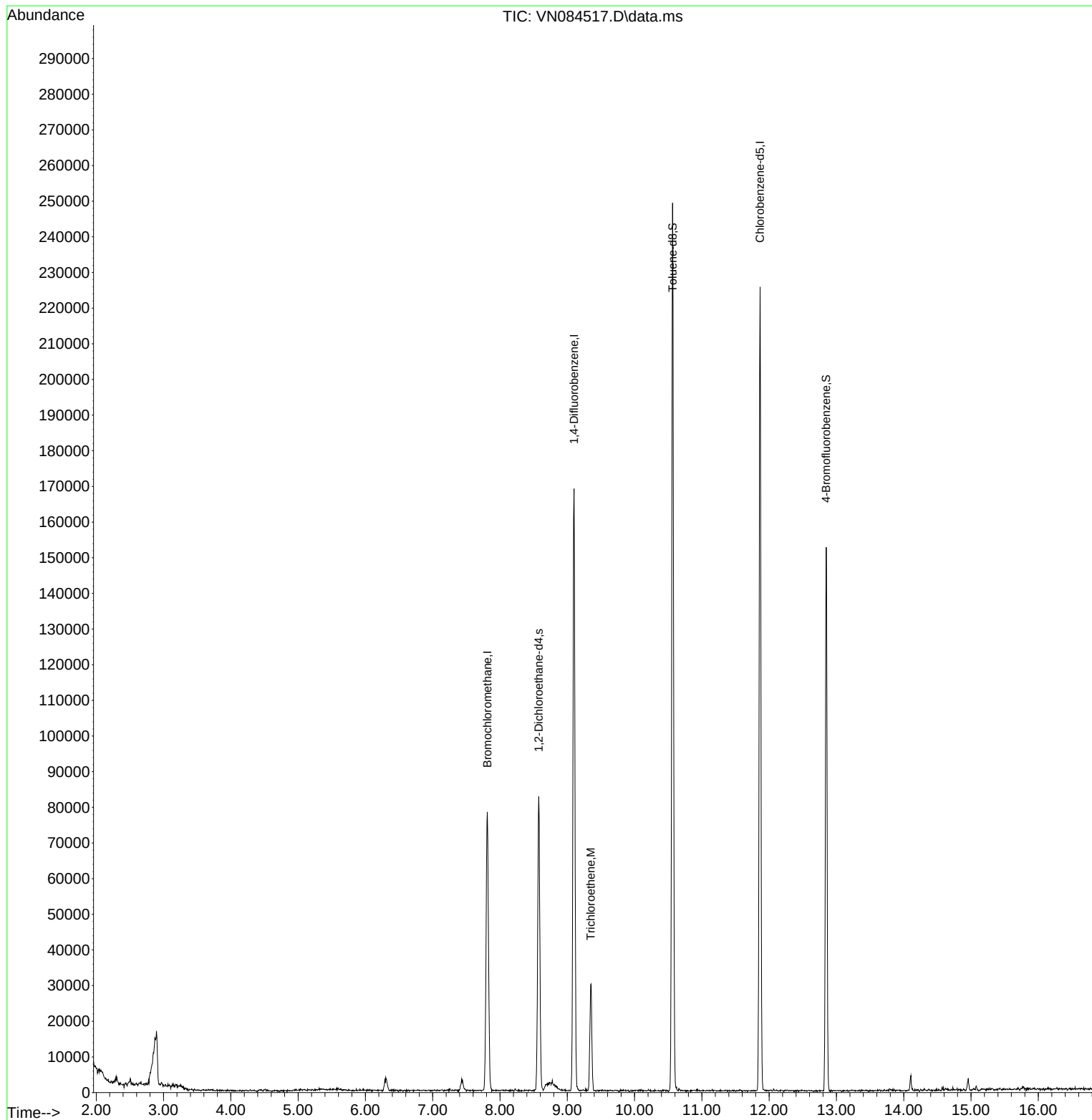
Internal Standards						
1) Bromochloromethane	7.812	128	27891	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	142505	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	128076	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	68128	30.340	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.133%
60) 4-Bromofluorobenzene	12.847	95	54597	25.829	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.100%
63) Toluene-d8	10.565	98	172511	29.075	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.900%
Target Compounds						
37) Trichloroethene	9.347	130	11025	6.538	ug/l	Qvalue 83

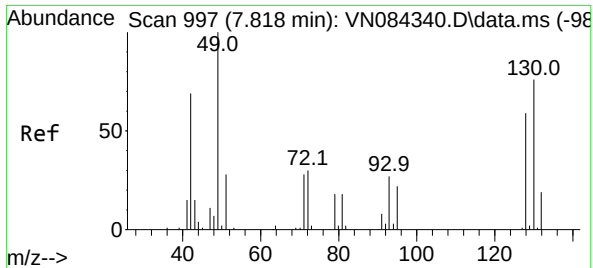
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084517.D
Acq On : 25 Oct 2024 15:39
Operator : JC\MD
Sample : P4549-04 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-069-IDWGW-20241024

Quant Time: Oct 26 05:31:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.812 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN084517.D

Acq: 25 Oct 2024 15:39

Instrument :

MSVOA_N

ClientSampleId :

TT-069-IDWGW-20241024

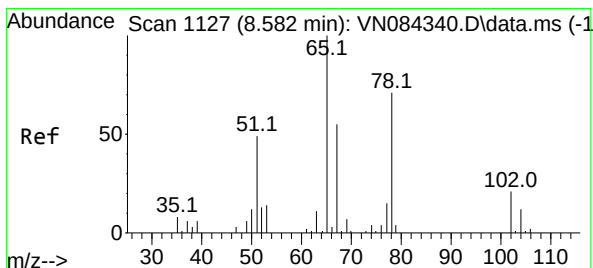
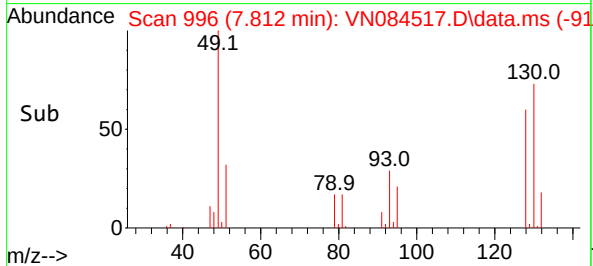
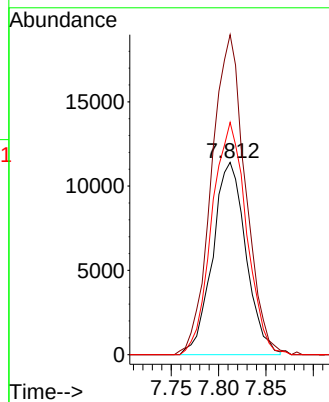
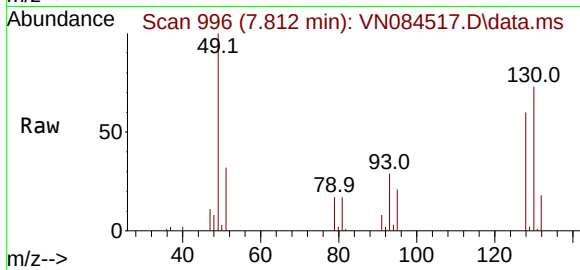
Tgt Ion:128 Resp: 27891

Ion Ratio Lower Upper

128 100

49 169.3 0.0 430.0

130 125.5 0.0 329.8



#27

1,2-Dichloroethane-d4

Concen: 30.340 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084517.D

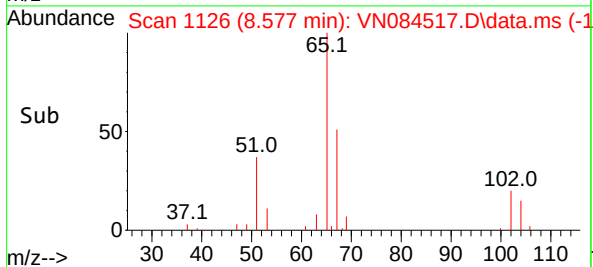
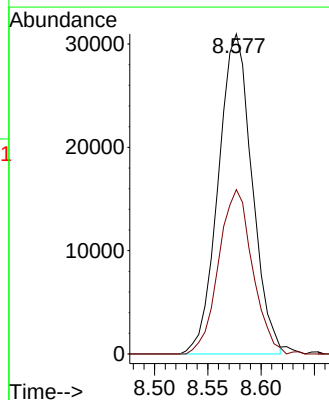
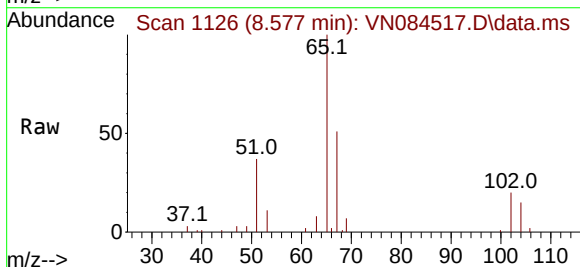
Acq: 25 Oct 2024 15:39

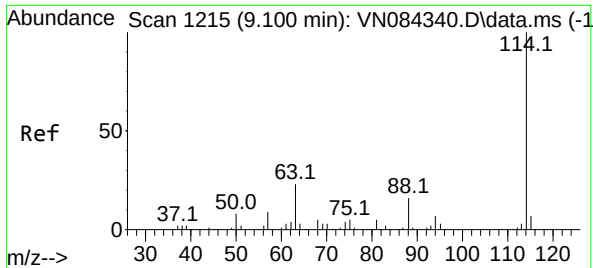
Tgt Ion: 65 Resp: 68128

Ion Ratio Lower Upper

65 100

67 51.5 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084517.D

Acq: 25 Oct 2024 15:39

Instrument :

MSVOA_N

ClientSampleId :

TT-069-IDWGW-20241024

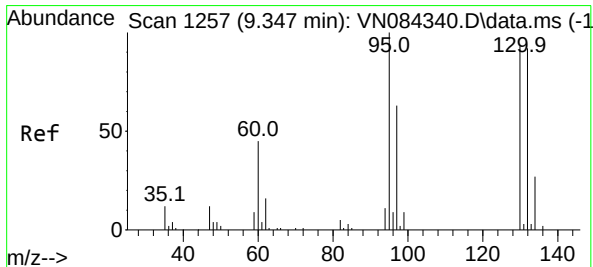
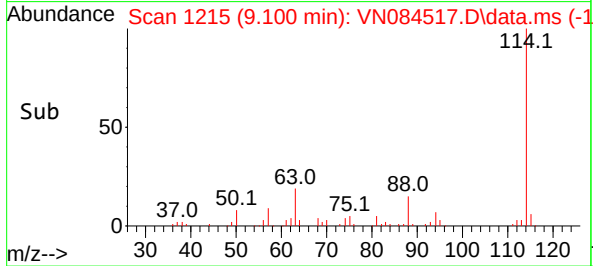
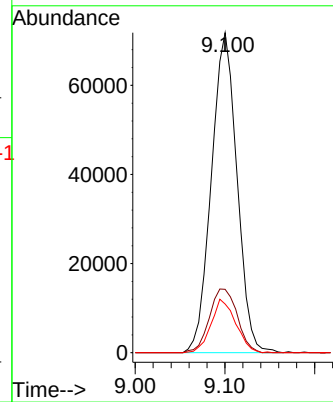
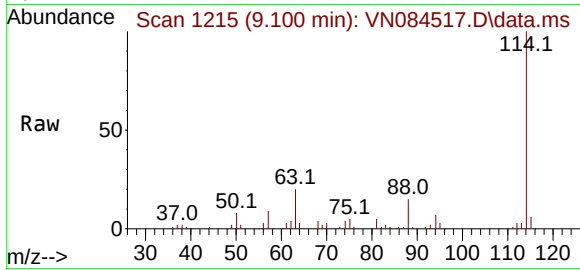
Tgt Ion:114 Resp: 142505

Ion Ratio Lower Upper

114 100

63 21.6 17.4 26.0

88 16.1 13.2 19.8



#37

Trichloroethene

Concen: 6.538 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084517.D

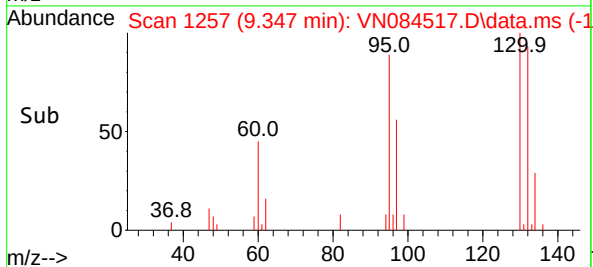
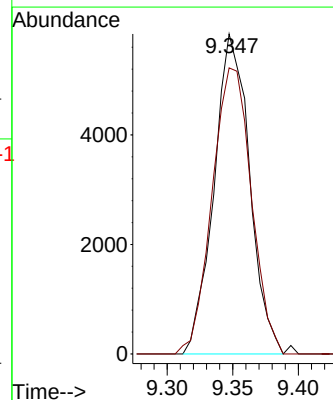
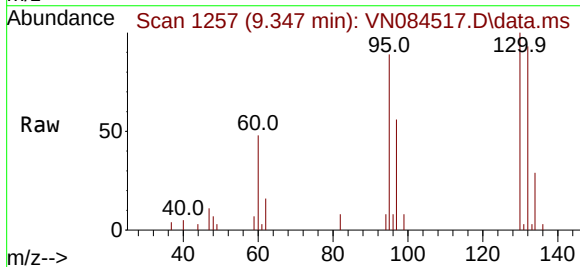
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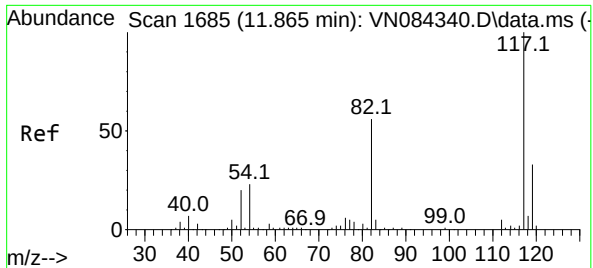
Tgt Ion:130 Resp: 11025

Ion Ratio Lower Upper

130 100

95 89.4 85.8 128.6

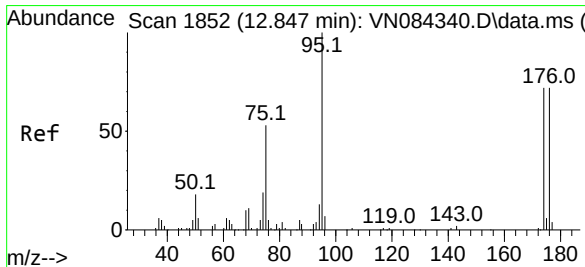
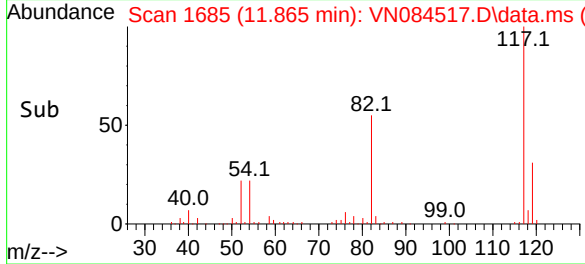
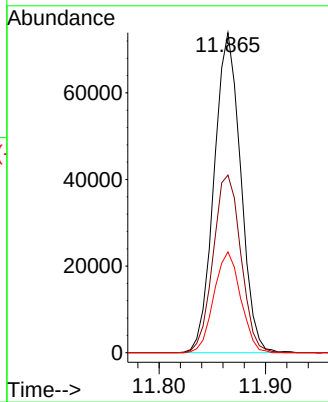
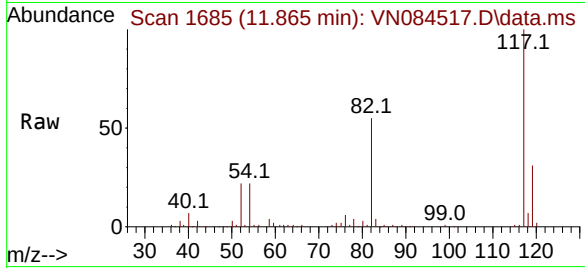




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084517.D
Acq: 25 Oct 2024 15:39

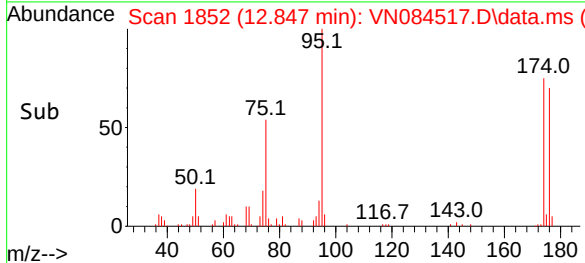
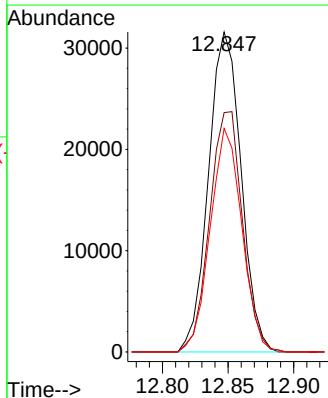
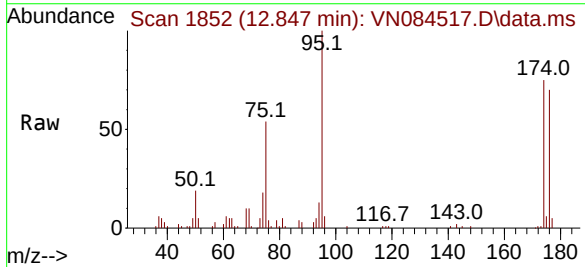
Instrument :
MSVOA_N
ClientSampleId :
TT-069-IDWGW-20241024

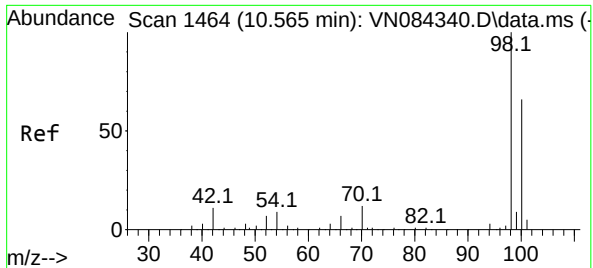
Tgt Ion:117 Resp: 128076
Ion Ratio Lower Upper
117 100
82 57.9 46.2 69.4
119 31.7 25.4 38.2



#60
4-Bromofluorobenzene
Concen: 25.829 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084517.D
Acq: 25 Oct 2024 15:39

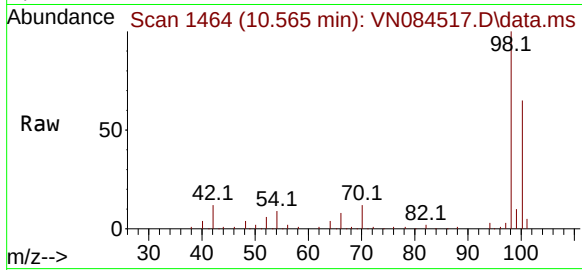
Tgt Ion: 95 Resp: 54597
Ion Ratio Lower Upper
95 100
174 75.7 58.2 87.2
176 68.0 56.4 84.6



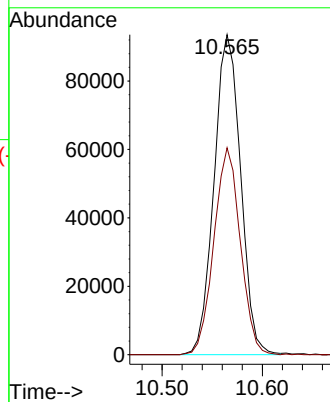
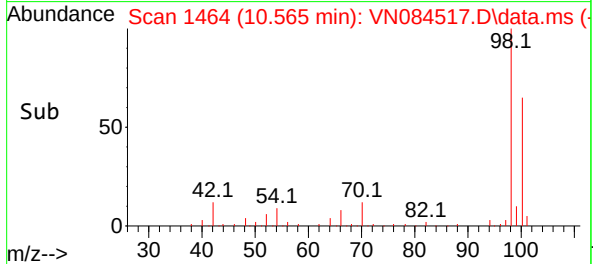


#63
Toluene-d8
Concen: 29.075 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084517.D
Acq: 25 Oct 2024 15:39

Instrument :
MSVOA_N
ClientSampleId :
TT-069-IDWGW-20241024



Tgt Ion: 98 Resp: 172511
Ion Ratio Lower Upper
98 100
100 64.1 52.5 78.7





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549
 Instrument ID: MSVOA_N Calibration Date(s): 10/08/2024 10/08/2024
 Heated Purge: (Y/N) N Calibration Time(s): 09:43 11:19
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF150 = VN084337.D			RRF100 = VN084338.D		RRF050 = VN084339.D		
	RRF020 = VN084340.D			RRF005 = VN084341.D		RRF =		
COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
Dichlorodifluoromethane	1.784	1.757	1.768	1.931	1.918		1.832	4.7
Chloromethane	2.067	2.037	2.024	2.146	2.148		2.084	2.8
Vinyl Chloride	2.018	1.986	2.005	2.098	2.113		2.044	2.8
Bromomethane	1.236	1.234	1.249	1.418	1.635		1.354	12.9
Chloroethane	1.264	1.205	1.228	1.396	1.607		1.340	12.4
Trichlorofluoromethane	3.237	3.246	3.256	3.403	3.505		3.329	3.6
1,1,2-Trichlorotrifluoroethane	1.861	1.829	1.799	1.891	1.981		1.872	3.7
1,1-Dichloroethene	1.833	1.832	1.870	1.834	1.971		1.868	3.2
Acrolein	0.440	0.450	0.431	0.402	0.449		0.434	4.5
Acrylonitrile	1.069	1.026	1.064	1.069	1.024		1.051	2.2
Acetone	0.329	0.315	0.306	0.286	0.265		0.300	8.3
Carbon Disulfide	5.386	5.270	5.346	5.704	6.106		5.562	6.2
Methyl tert-Butyl Ether	6.327	6.268	6.286	6.312	6.019		6.242	2
Methyl Acetate	2.383	2.367	2.435	2.287	2.221		2.339	3.6
Methylene Chloride	2.067	2.014	2.090	2.147	2.203		2.104	3.5
trans-1,2-Dichloroethene	1.948	1.923	1.947	2.012	2.055		1.977	2.8
1,1-Dichloroethane	3.674	3.601	3.659	3.837	3.908		3.736	3.5
Cyclohexane	0.594	0.572	0.559	0.590	0.535		0.570	4.2
2-Butanone	0.275	0.269	0.268	0.257	0.242		0.262	5
Carbon Tetrachloride	0.556	0.548	0.531	0.544	0.547		0.545	1.6
2,2-Dichloropropane	0.605	0.583	0.569	0.576	0.560		0.579	3
cis-1,2-Dichloroethene	2.321	2.240	2.294	2.364	2.284		2.300	2
Chloroform	3.759	3.650	3.795	3.901	3.812		3.783	2.4
1,1,1-Trichloroethane	0.630	0.629	0.619	0.648	0.621		0.629	1.8
Methylcyclohexane	0.593	0.566	0.535	0.519	0.491		0.541	7.4
1,1-Dichloropropene	0.508	0.493	0.487	0.493	0.482		0.492	2
Benzene	1.571	1.514	1.511	1.557	1.555		1.542	1.8
1,2-Dichloroethane	0.520	0.505	0.508	0.522	0.515		0.514	1.4
Trichloroethene	0.358	0.353	0.345	0.366	0.353		0.355	2.1
1,2-Dichloropropane	0.384	0.371	0.363	0.386	0.375		0.376	2.5

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:43 11:19

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

LAB FILE ID:	RRF150 = VN084337.D	RRF100 = VN084338.D	RRF050 = VN084339.D	RRF020 = VN084340.D	RRF005 = VN084341.D	RRF =		
COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
Dibromomethane	0.268	0.257	0.257	0.263	0.269		0.263	2.1
Bromodichloromethane	0.568	0.552	0.550	0.559	0.559		0.558	1.3
4-Methyl-2-Pentanone	0.580	0.565	0.573	0.559	0.517		0.559	4.4
Toluene	1.775	1.732	1.746	1.761	1.767		1.756	1
t-1,3-Dichloropropene	0.603	0.581	0.573	0.561	0.564		0.576	2.9
cis-1,3-Dichloropropene	0.637	0.616	0.603	0.613	0.551		0.604	5.3
1,1,2-Trichloroethane	0.356	0.349	0.350	0.354	0.358		0.353	1.1
1,3-Dichloropropane	0.627	0.610	0.607	0.625	0.619		0.617	1.5
2-Hexanone	0.440	0.428	0.434	0.408	0.367		0.415	7.2
Dibromochloromethane	0.431	0.417	0.416	0.416	0.407		0.417	2
1,2-Dibromoethane	0.371	0.363	0.361	0.370	0.352		0.364	2.1
Tetrachloroethene	0.338	0.328	0.332	0.342	0.357		0.339	3.4
Chlorobenzene	1.102	1.069	1.072	1.086	1.136		1.093	2.5
1,1,1,2-Tetrachloroethane	0.386	0.374	0.380	0.383	0.377		0.380	1.2
Hexachloroethane	0.302	0.289	0.282	0.279	0.276		0.286	3.6
Ethyl Benzene	2.037	1.969	1.930	1.889	1.715		1.908	6.3
m/p-Xylenes	0.768	0.732	0.740	0.725	0.654		0.724	5.9
o-Xylene	0.738	0.710	0.708	0.692	0.641		0.698	5.2
Styrene	1.289	1.232	1.226	1.183	1.059		1.198	7.2
Bromoform	0.295	0.287	0.276	0.264	0.261		0.277	5.2
Isopropylbenzene	1.892	1.828	1.813	1.786	1.587		1.781	6.5
1,1,1,2-Tetrachloroethane	0.562	0.544	0.557	0.549	0.543		0.551	1.5
1,2,3-Trichloropropane	0.492	0.471	0.479	0.466	0.452		0.472	3.1
Bromobenzene	0.446	0.431	0.435	0.428	0.416		0.431	2.5
n-propylbenzene	2.289	2.177	2.158	2.107	1.881		2.123	7.1
2-Chlorotoluene	1.396	1.329	1.315	1.322	1.233		1.319	4.4
1,3,5-Trimethylbenzene	1.614	1.543	1.532	1.488	1.323		1.500	7.3
4-Chlorotoluene	1.428	1.353	1.352	1.323	1.248		1.341	4.8
tert-butylbenzene	1.376	1.330	1.309	1.260	1.122		1.279	7.6
1,2,4-Trimethylbenzene	1.642	1.567	1.550	1.502	1.347		1.522	7.2

* 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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549
 Instrument ID: MSVOA_N Calibration Date(s): 10/08/2024 10/08/2024
 Heated Purge: (Y/N) N Calibration Time(s): 09:43 11:19
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF150 = VN084337.D		RRF100 = VN084338.D		RRF050 = VN084339.D	
		RRF020 = VN084340.D		RRF005 = VN084341.D		RRF =	
COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	% RSD
sec-Butylbenzene	1.913	1.831	1.794	1.746	1.522	1.762	8.3
p-Isopropyltoluene	1.641	1.549	1.499	1.439	1.286	1.483	8.9
1,3-Dichlorobenzene	0.851	0.811	0.808	0.790	0.750	0.802	4.6
1,4-Dichlorobenzene	0.842	0.805	0.788	0.761	0.786	0.796	3.8
n-Butylbenzene	1.484	1.371	1.302	1.199	1.065	1.284	12.5
1,2-Dichlorobenzene	0.811	0.783	0.780	0.756	0.748	0.775	3.2
1,2-Dibromo-3-Chloropropane	0.120	0.116	0.119	0.110	0.098	0.113	8
1,2,4-Trichlorobenzene	0.436	0.416	0.410	0.381	0.372	0.403	6.5
Hexachlorobutadiene	0.183	0.177	0.179	0.173	0.220	0.187	10.3
Naphthalene	1.554	1.481	1.420	1.285	1.093	1.366	13.3
1,2,3-Trichlorobenzene	0.436	0.416	0.410	0.381	0.372	0.403	6.5
1,2-Dichloroethane-d4	2.393	2.419	2.371	2.467	2.428	2.415	1.5
Toluene-d8	1.397	1.374	1.378	1.395	1.404	1.390	0.9
4-Bromofluorobenzene	0.514	0.506	0.498	0.492	0.465	0.495	3.8
Methyl Iodide	2.503	2.450	2.473	2.469	2.378	2.455	1.9
Methyl methacrylate	0.431	0.420	0.420	0.404	0.369	0.409	5.9

* 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 : 624N100824W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Wed Oct 09 02:22:28 2024
 Response Via : Initial Calibration

Calibration Files

5 =VN084341.D 20 =VN084340.D 50 =VN084339.D 100 =VN084338.D 150 =VN084337.D

Compound		5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	1.918	1.931	1.768	1.757	1.784	1.832	4.66
3) M	Chloromethane	2.148	2.146	2.024	2.037	2.067	2.084	2.85
4) M	Vinyl Chloride	2.113	2.098	2.005	1.986	2.018	2.044	2.81
5) M	Bromomethane	1.635	1.418	1.249	1.234	1.236	1.354	12.91
6) M	Chloroethane	1.607	1.396	1.228	1.205	1.264	1.340	12.44
7) M	Trichlorofluorom...	3.505	3.403	3.256	3.246	3.237	3.329	3.60
8) T	Diethyl Ether	1.232	1.232	1.226	1.207	1.223	1.224	0.85
9)	1,1,2-Trichlorot...	1.981	1.891	1.799	1.829	1.861	1.872	3.73
10) M	1,1-Dichloroethene	1.971	1.834	1.870	1.832	1.833	1.868	3.20
11)	Methyl Iodide	2.378	2.469	2.473	2.450	2.503	2.455	1.90
12)	Methyl Acetate	2.221	2.287	2.435	2.367	2.383	2.339	3.62
13) M	Acrolein	0.449	0.402	0.431	0.450	0.440	0.434	4.50
14) M	Acrylonitrile	1.024	1.069	1.064	1.026	1.069	1.051	2.23
15) M	Acetone	0.265	0.286	0.306	0.315	0.329	0.300	8.31
16) M	Carbon Disulfide	6.106	5.704	5.346	5.270	5.386	5.562	6.23
17)	Allyl chloride	2.962	3.091	3.040	3.017	3.030	3.028	1.53
18) M	Methylene Chloride	2.203	2.147	2.090	2.014	2.067	2.104	3.47
19) M	trans-1,2-Dichlo...	2.055	2.012	1.947	1.923	1.948	1.977	2.76
20) T	Diisopropyl ether	6.257	6.655	6.558	6.487	6.595	6.510	2.37
21) M	1,1-Dichloroethane	3.908	3.837	3.659	3.601	3.674	3.736	3.49
22) M	cis-1,2-Dichloro...	2.284	2.364	2.294	2.240	2.321	2.300	2.00
23) M	tert-Butyl Alcohol	0.402	0.399	0.413	0.406	0.394	0.403	1.71
24) M	Methyl tert-Buty...	6.019	6.312	6.286	6.268	6.327	6.242	2.04
25) M	Chloroform	3.812	3.901	3.795	3.650	3.759	3.783	2.41
26)	Cyclohexane	2.941	3.291	3.090	3.107	3.193	3.124	4.15
27) s	1,2-Dichloroetha...	2.428	2.467	2.370	2.419	2.393	2.415	1.51
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.482	0.493	0.487	0.493	0.508	0.492	2.00
30) M	2-Butanone	0.242	0.257	0.268	0.269	0.275	0.262	5.01
31)	2,2-Dichloropropane	0.560	0.576	0.569	0.583	0.605	0.579	2.98
32) M	1,1,1-Trichloroe...	0.621	0.648	0.619	0.629	0.630	0.629	1.79
33) M	Carbon Tetrachlo...	0.547	0.544	0.531	0.548	0.556	0.545	1.63
34) M	Benzene	1.555	1.557	1.511	1.514	1.571	1.542	1.77
35)	Methacrylonitrile	0.231	0.273	0.289	0.297	0.308	0.280	10.66
36) M	1,2-Dichloroethane	0.515	0.522	0.508	0.505	0.520	0.514	1.42
37) M	Trichloroethene	0.353	0.366	0.345	0.353	0.358	0.355	2.13
38)	Methylcyclohexane	0.491	0.519	0.535	0.566	0.593	0.541	7.36
39) M	1,2-Dichloropropane	0.375	0.386	0.363	0.371	0.384	0.376	2.49
40)	Dibromomethane	0.269	0.263	0.257	0.257	0.268	0.263	2.12
41) M	Bromodichloromet...	0.559	0.559	0.550	0.552	0.568	0.558	1.30
42) M	Vinyl Acetate	0.837	0.888	0.930	0.945	0.960	0.912	5.46
43)	Ethyl Acetate	0.495	0.509	0.517	0.532	0.534	0.517	3.14
44)	Isopropyl Acetate	0.766	0.840	0.862	0.872	0.891	0.846	5.75
45) T	1,4-Dioxane	0.007	0.007	0.008	0.008	0.008	0.008	7.69
46)	Methyl methacrylate	0.369	0.404	0.420	0.420	0.431	0.409	5.91
47)	n-amyl Acetate	0.630	0.740	0.769	0.796	0.829	0.753	10.09
48) M	t-1,3-Dichloropr...	0.564	0.561	0.573	0.581	0.603	0.576	2.90
49) T	cis-1,3-Dichloro...	0.551	0.613	0.603	0.616	0.637	0.604	5.34
50) M	1,1,2-Trichloroe...	0.358	0.354	0.350	0.349	0.356	0.353	1.10
51)	Ethyl methacrylate	0.479	0.575	0.606	0.616	0.641	0.583	10.77
52)	1,3-Dichloropropane	0.619	0.625	0.607	0.610	0.627	0.617	1.47
53) M	Dibromochloromet...	0.407	0.416	0.416	0.417	0.431	0.417	2.04
54) M	1,2-Dibromoethane	0.352	0.370	0.361	0.363	0.371	0.364	2.09
55) M	2-Chloroethyl vi...	0.224	0.250	0.269	0.286	0.294	0.265	10.65
56) M	Bromoform	0.261	0.264	0.276	0.287	0.295	0.277	5.22

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N100824W.M

57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Penta...	0.517	0.559	0.573	0.565	0.580	0.559	4.39
59) M	2-Hexanone	0.367	0.408	0.434	0.428	0.440	0.415	7.19
60) S	4-Bromofluoroben...	0.465	0.492	0.498	0.506	0.514	0.495	3.80
61) M	Tetrachloroethene	0.357	0.342	0.332	0.328	0.338	0.339	3.37
62) M	Toluene	1.767	1.761	1.746	1.732	1.775	1.756	0.99
63) S	Toluene-d8	1.404	1.395	1.378	1.374	1.397	1.390	0.94
64) M	Chlorobenzene	1.136	1.086	1.072	1.069	1.102	1.093	2.53
65)	1,1,1,2-Tetrachl...	0.377	0.383	0.380	0.374	0.386	0.380	1.24
66) M	Ethyl Benzene	1.715	1.889	1.930	1.969	2.036	1.908	6.33
67) M	m/p-Xylenes	0.654	0.725	0.740	0.732	0.768	0.724	5.87
68) M	o-Xylene	0.641	0.692	0.708	0.710	0.738	0.698	5.15
69) M	Styrene	1.059	1.183	1.226	1.232	1.289	1.198	7.20
70)	Isopropylbenzene	1.587	1.786	1.813	1.828	1.892	1.781	6.47
71) M	1,1,2,2-Tetrachl...	0.543	0.549	0.557	0.544	0.562	0.551	1.49
72)	1,2,3-Trichlorop...	0.452	0.466	0.479	0.471	0.492	0.472	3.15
73)	Bromobenzene	0.416	0.428	0.435	0.431	0.446	0.431	2.52
74)	n-propylbenzene	1.881	2.107	2.158	2.177	2.289	2.123	7.09
75)	2-Chlorotoluene	1.233	1.322	1.315	1.329	1.396	1.319	4.42
76)	1,3,5-Trimethylb...	1.323	1.488	1.532	1.543	1.614	1.500	7.26
77)	t-1,4-Dichloro-2...	0.171	0.187	0.211	0.213	0.225	0.202	10.84
78)	4-Chlorotoluene	1.248	1.323	1.352	1.353	1.428	1.341	4.84
79)	tert-butylbenzene	1.122	1.260	1.309	1.330	1.376	1.279	7.63
80)	1,2,4-Trimethylb...	1.347	1.502	1.550	1.567	1.642	1.522	7.21
81)	sec-Butylbenzene	1.522	1.746	1.794	1.831	1.913	1.762	8.34
82)	p-Isopropyltoluene	1.286	1.439	1.499	1.549	1.641	1.483	8.95
83) M	1,3-Dichlorobenzene	0.750	0.790	0.808	0.811	0.851	0.802	4.57
84) M	1,4-Dichlorobenzene	0.786	0.761	0.788	0.805	0.842	0.796	3.77
85)	n-Butylbenzene	1.065	1.199	1.302	1.371	1.484	1.284	12.49
86) T	Hexachloroethane	0.276	0.279	0.282	0.289	0.302	0.286	3.59
87) M	1,2-Dichlorobenzene	0.748	0.756	0.780	0.783	0.811	0.775	3.21
88)	1,2-Dibromo-3-Ch...	0.098	0.110	0.119	0.116	0.120	0.113	8.01
89)	1,2,4-Trichlorob...	0.372	0.381	0.410	0.416	0.436	0.403	6.49
90)	Hexachlorobutadiene	0.220	0.173	0.179	0.177	0.183	0.187	10.28
91) M	Naphthalene	1.093	1.285	1.420	1.481	1.554	1.366	13.33
92)	1,2,3-Trichlorob...	0.372	0.381	0.410	0.416	0.436	0.403	6.49

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084337.D
 Acq On : 08 Oct 2024 09:43
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:05:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	33784	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	181536	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	171821	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	80830	29.718	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.067%		
60) 4-Bromofluorobenzene	12.847	95	88349	31.155	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.867%		
63) Toluene-d8	10.565	98	240116	30.166	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.567%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	301403	146.123	ug/l	96
3) Chloromethane	2.359	50	349225	148.780	ug/l	99
4) Vinyl Chloride	2.512	62	340879	148.089	ug/l	97
5) Bromomethane	2.924	94	208863	136.955	ug/l	99
6) Chloroethane	3.100	64	213547	141.510	ug/l	95
7) Trichlorofluoromethane	3.489	101	546712	145.812	ug/l	99
8) Diethyl Ether	3.959	74	206608	149.881	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	314320	149.095	ug/l	98
10) 1,1-Dichloroethene	4.330	96	309616	147.186	ug/l	92
11) Methyl Iodide	4.583	142	422778	152.937	ug/l	99
12) Methyl Acetate	5.018	43	402489	152.836	ug/l	99
13) Acrolein	4.177	56	371221	758.829	ug/l	100
14) Acrylonitrile	5.718	53	902986	763.216	ug/l	99
15) Acetone	4.424	58	277575	821.289	ug/l	95
16) Carbon Disulfide	4.706	76	909776	145.236	ug/l	100
17) Allyl chloride	5.018	41	511759	150.078	ug/l	95
18) Methylene Chloride	5.271	84	349106	147.322	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	329107	147.827	ug/l	97
20) Diisopropyl ether	6.671	45	1114091	151.956	ug/l	96
21) 1,1-Dichloroethane	6.571	63	620566	147.512	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	392124	151.363	ug/l	98
23) tert-Butyl Alcohol	5.524	59	333149	734.096	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	1068810	152.038	ug/l #	85
25) Chloroform	7.965	83	634973	149.030	ug/l	99
26) Cyclohexane	8.253	56	539286	153.272	ug/l #	97
29) 1,1-Dichloropropene	8.371	75	461334	154.807	ug/l	100
30) 2-Butanone	7.482	43	1249418	787.459	ug/l	99
31) 2,2-Dichloropropane	7.488	77	549477	156.907	ug/l #	80
32) 1,1,1-Trichloroethane	8.165	97	571549	150.045	ug/l	99
33) Carbon Tetrachloride	8.359	117	504637	152.921	ug/l	97
34) Benzene	8.606	78	1425580	152.821	ug/l	96
35) Methacrylonitrile	7.777	41	279509	165.128	ug/l	99
36) 1,2-Dichloroethane	8.671	62	471651	151.686	ug/l	100
37) Trichloroethene	9.353	130	324930	151.266	ug/l	95
38) Methylcyclohexane	9.600	83	538684	164.564	ug/l	99
39) 1,2-Dichloropropane	9.618	63	348207	153.071	ug/l	97
40) Dibromomethane	9.706	93	243118	152.917	ug/l	98
41) Bromodichloromethane	9.888	83	515968	152.872	ug/l	94
42) Vinyl Acetate	6.600	43	4357419	789.646	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084337.D
 Acq On : 08 Oct 2024 09:43
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:05:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	484255	154.753	ug/l	100
44) Isopropyl Acetate	8.688	43	808933	157.943	ug/l	99
45) 1,4-Dioxane	9.694	88	147762	3200.393	ug/l	98
46) Methyl methacrylate	9.676	41	391545	158.224	ug/l	100
47) n-amyl Acetate	12.494	43	752246	165.124	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	547316	156.926	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	578523	158.273	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	323065	151.179	ug/l	96
51) Ethyl methacrylate	10.870	69	581930	164.863	ug/l	95
52) 1,3-Dichloropropane	11.165	76	568999	152.279	ug/l	99
53) Dibromochloromethane	11.359	129	390970	154.875	ug/l	100
54) 1,2-Dibromoethane	11.470	107	336624	153.033	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	1333727	833.093	ug/l	99
56) Bromoform	12.576	173	268044	160.094	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	2491181	778.311	ug/l	99
59) 2-Hexanone	11.194	43	1891152	795.133	ug/l	99
61) Tetrachloroethene	11.106	164	290573	149.507	ug/l	97
62) Toluene	10.629	91	1525116	151.621	ug/l	99
64) Chlorobenzene	11.894	112	946501	151.211	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	331211	152.311	ug/l	99
66) Ethyl Benzene	11.964	91	1749567	160.094	ug/l	99
67) m/p-Xylenes	12.070	106	1319448	318.270	ug/l	100
68) o-Xylene	12.394	106	633813	158.611	ug/l	99
69) Styrene	12.412	104	1107376	161.432	ug/l	99
70) Isopropylbenzene	12.694	105	1625283	159.320	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	483003	153.053	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	422311m	156.469	ug/l	
73) Bromobenzene	12.982	156	383306	155.148	ug/l	100
74) n-propylbenzene	13.035	91	1966655	161.778	ug/l	99
75) 2-Chlorotoluene	13.123	91	1199693	158.816	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	1386742	161.447	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	193413	167.468	ug/l	98
78) 4-Chlorotoluene	13.223	91	1227049	159.769	ug/l	100
79) tert-butylbenzene	13.435	119	1182498	161.368	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	1410559	161.849	ug/l	100
81) sec-Butylbenzene	13.617	105	1643555	162.908	ug/l	99
82) p-Isopropyltoluene	13.729	119	1409541	165.992	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	731253	159.183	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	723724	158.652	ug/l	99
85) n-Butylbenzene	14.053	91	1274832	173.335	ug/l	98
86) Hexachloroethane	14.335	117	259393	158.553	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	696639	156.847	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	102940	159.510	ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	374861	162.329	ug/l	99
90) Hexachlorobutadiene	15.500	225	157242	147.184	ug/l	97
91) Naphthalene	15.641	128	1334733	170.565	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	374861	162.329	ug/l	99

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

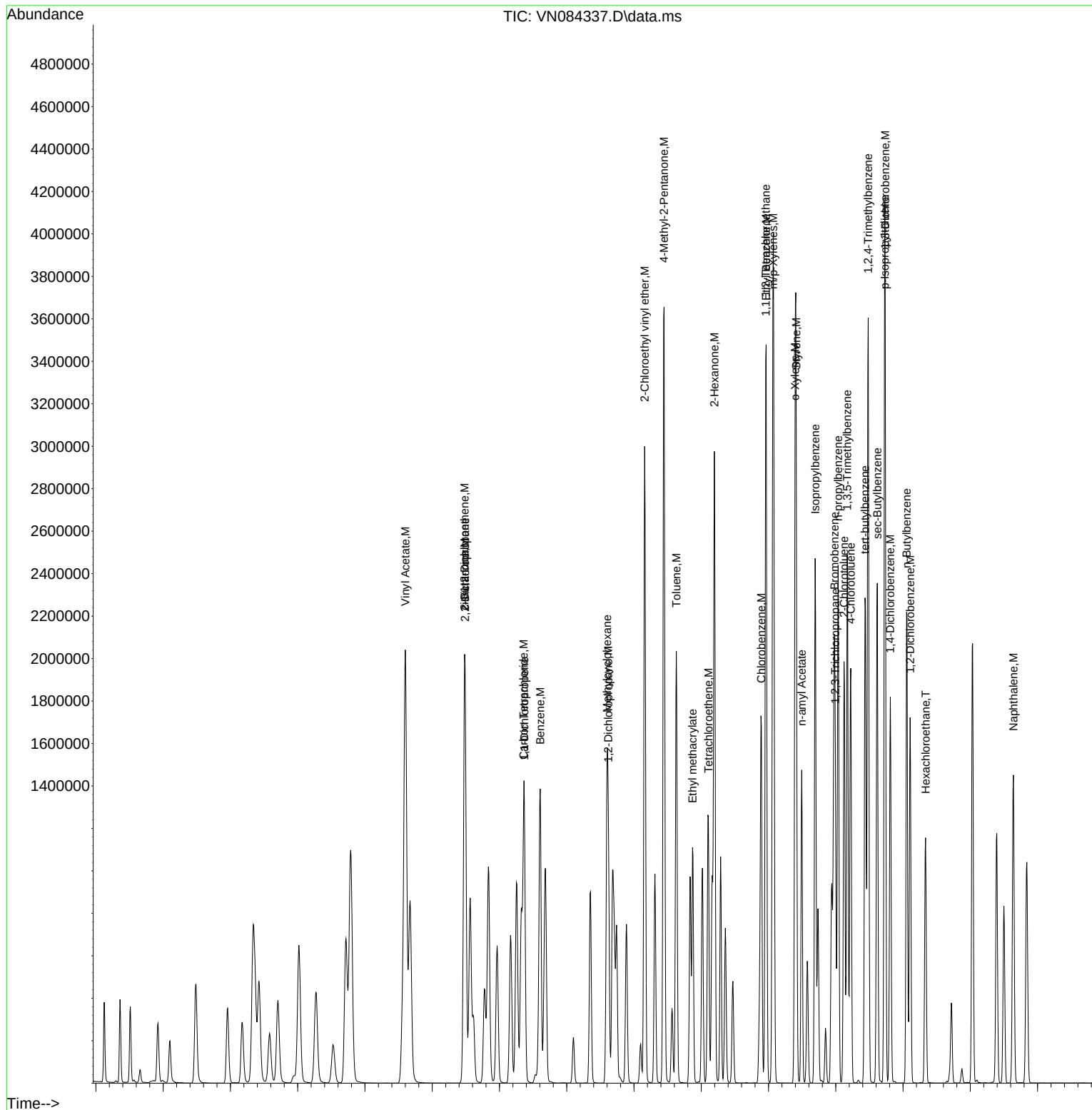
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Data File : VN084337.D
Acq On : 08 Oct 2024 09:43
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

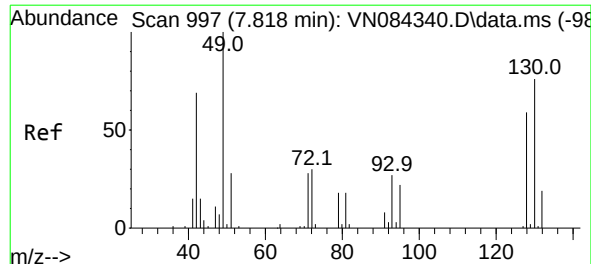
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:05:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:04:33 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.818 min Scan# 99

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

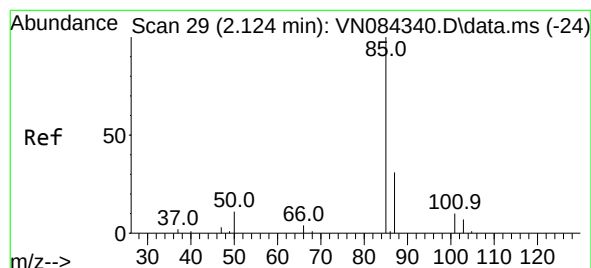
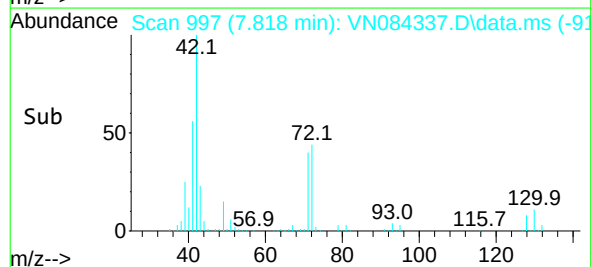
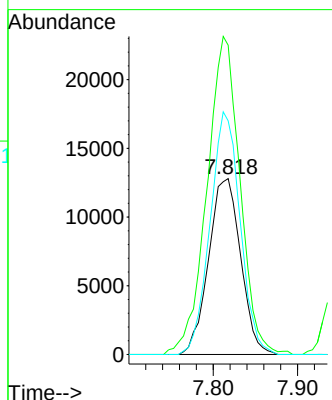
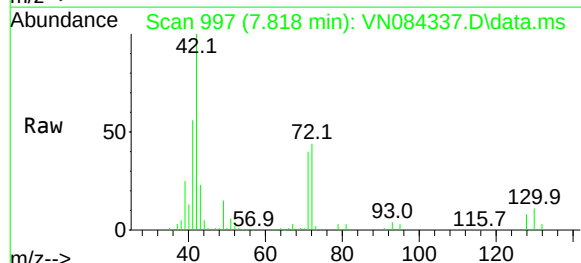
ClientSampleId :

VSTDIC150

Tgt Ion	128	Resp	33784
Ion	Ratio	Lower	Upper
128	100		
49	185.9	0.0	430.0
130	129.4	0.0	329.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#2

Dichlorodifluoromethane

Concen: 146.123 ug/l

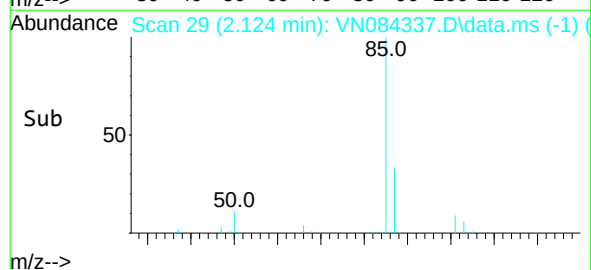
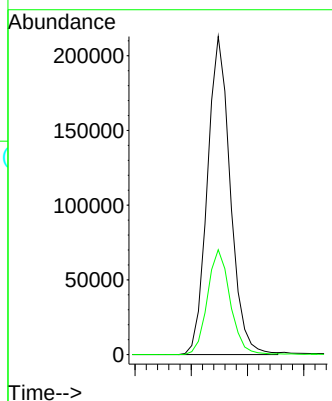
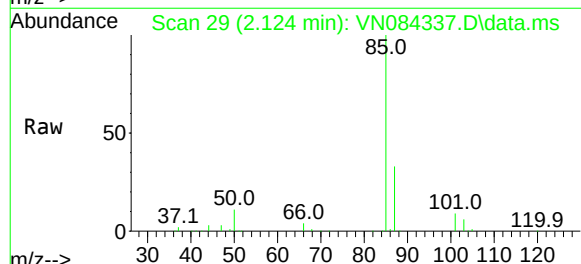
RT: 2.124 min Scan# 29

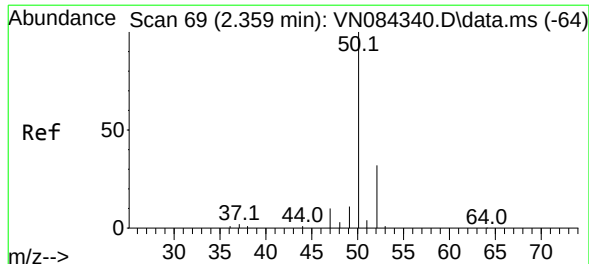
Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion	85	Resp	301403
Ion	Ratio	Lower	Upper
85	100		
87	33.0	15.4	46.4





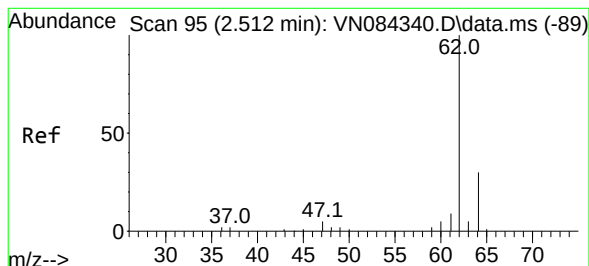
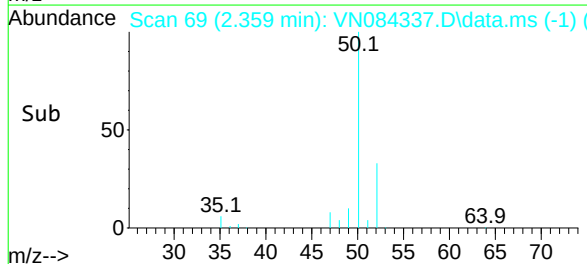
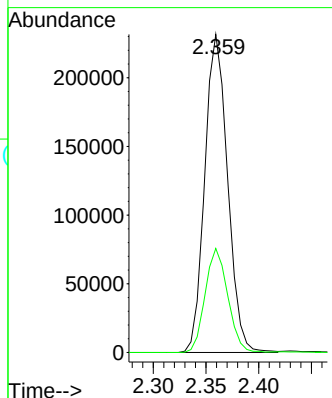
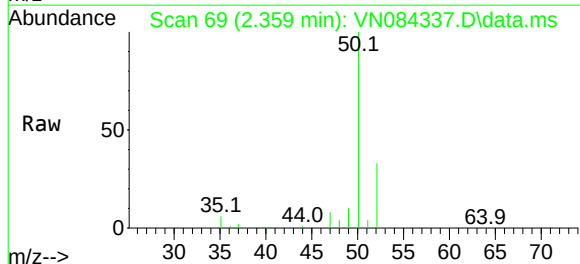
#3
Chloromethane
Concen: 148.780 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 349225
Ion Ratio Lower Upper
50 100
52 32.7 25.8 38.6

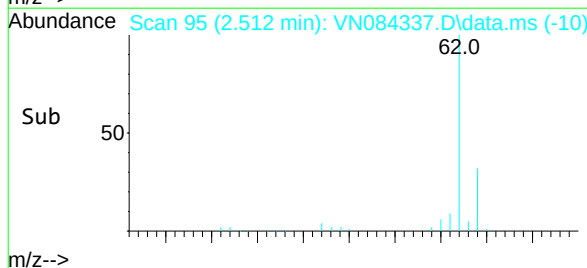
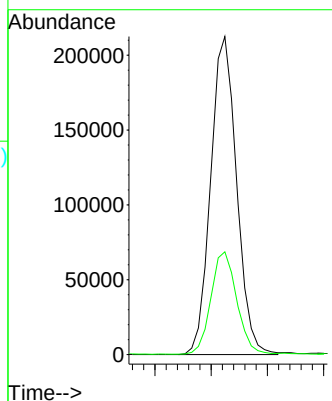
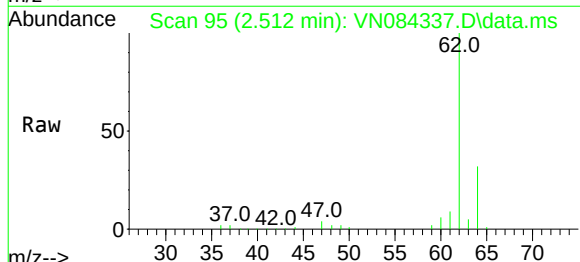
Manual Integrations
APPROVED

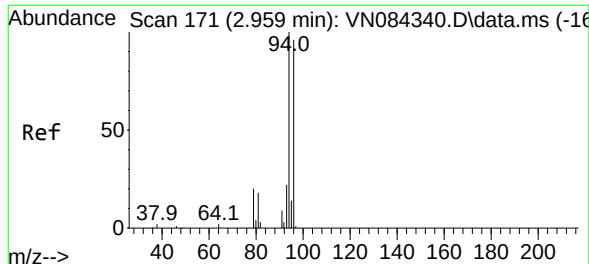
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#4
Vinyl Chloride
Concen: 148.089 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

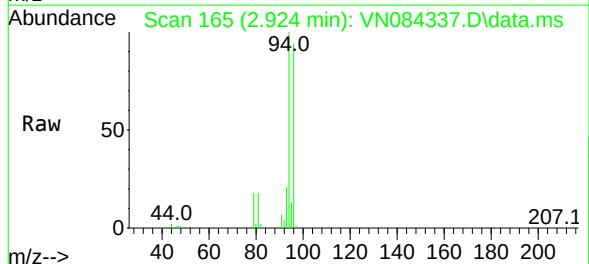
Tgt Ion: 62 Resp: 340879
Ion Ratio Lower Upper
62 100
64 32.2 24.3 36.5





#5
Bromomethane
Concen: 136.955 ug/l
RT: 2.924 min Scan# 16
Delta R.T. -0.035 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

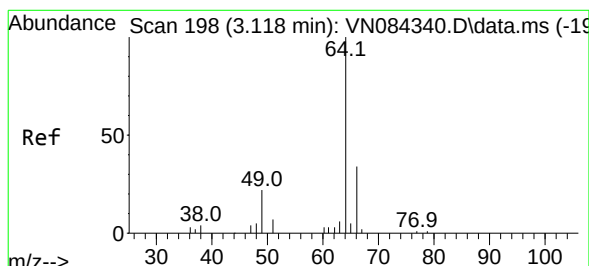
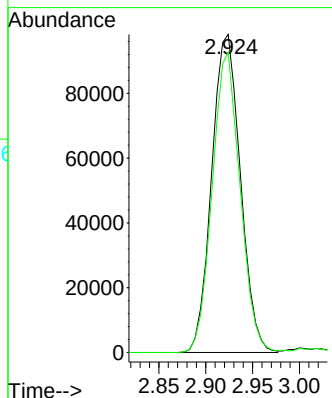
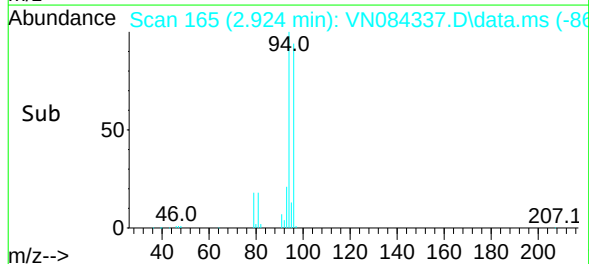
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



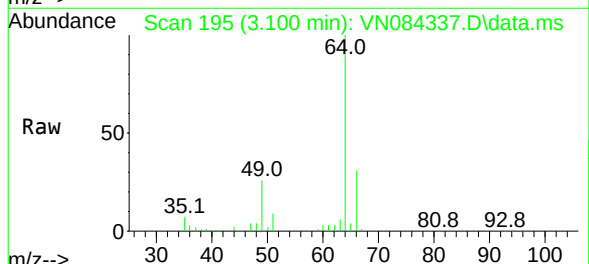
Tgt Ion: 94 Resp: 208863
Ion Ratio Lower Upper
94 100
96 94.5 76.7 115.1

Manual Integrations
APPROVED

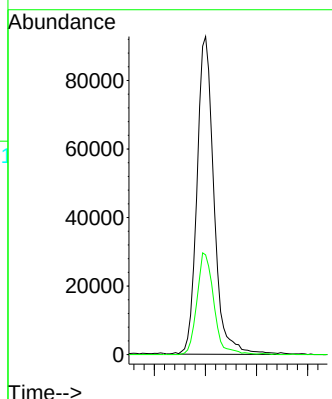
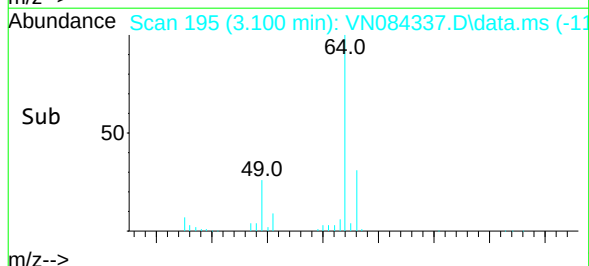
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

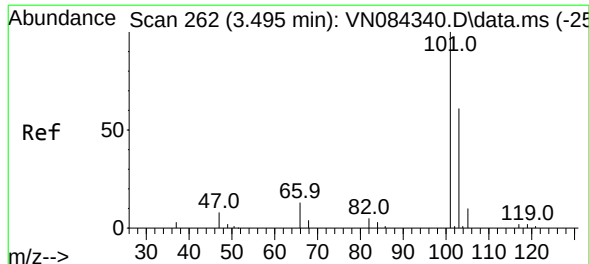


#6
Chloroethane
Concen: 141.510 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.018 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43



Tgt Ion: 64 Resp: 213547
Ion Ratio Lower Upper
64 100
66 31.4 27.7 41.5





#7

Trichlorofluoromethane

Concen: 145.812 ug/l

RT: 3.489 min Scan# 261

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:101 Resp: 546712

Ion Ratio Lower Upper

101 100

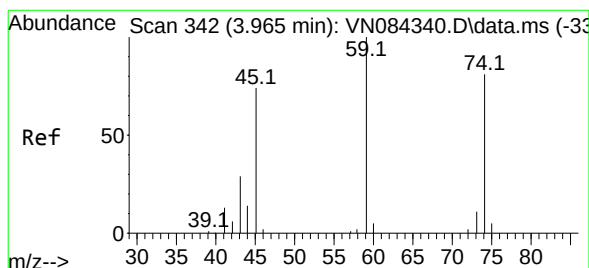
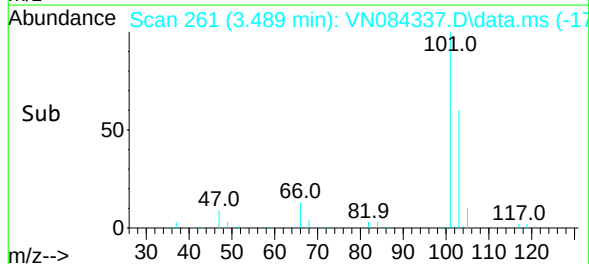
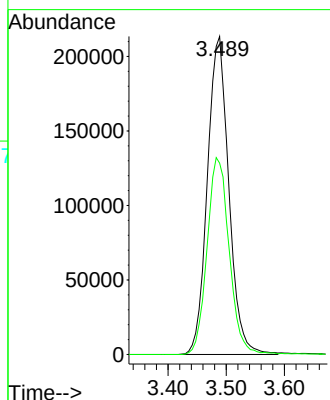
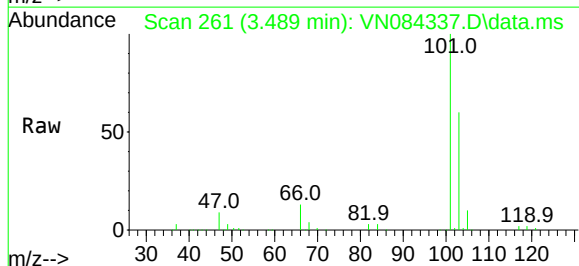
103 60.2 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#8

Diethyl Ether

Concen: 149.881 ug/l

RT: 3.959 min Scan# 341

Delta R.T. -0.006 min

Lab File: VN084337.D

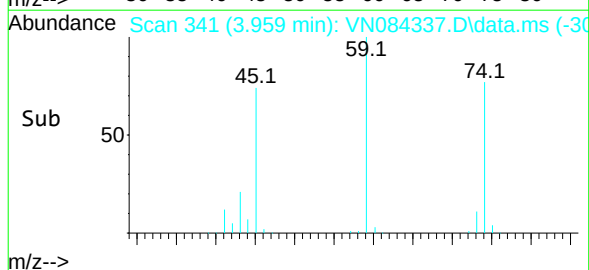
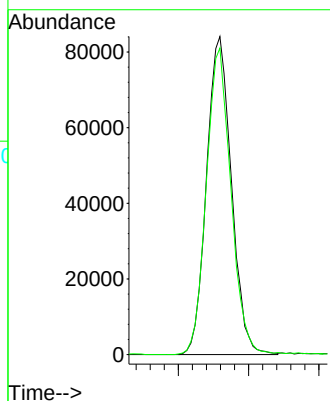
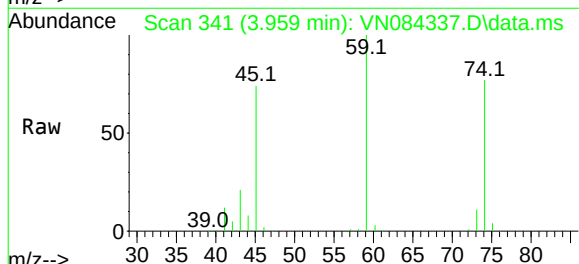
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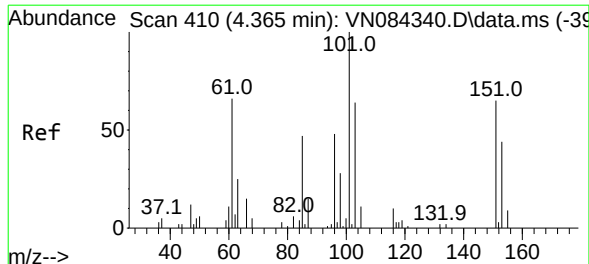
Tgt Ion: 74 Resp: 206608

Ion Ratio Lower Upper

74 100

45 95.3 19.2 173.2





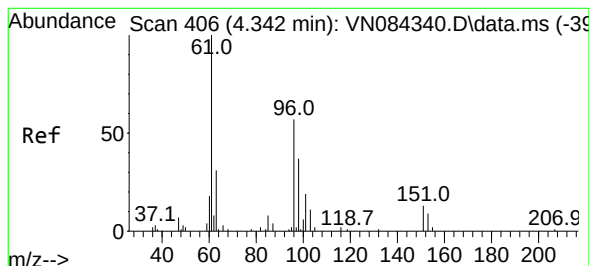
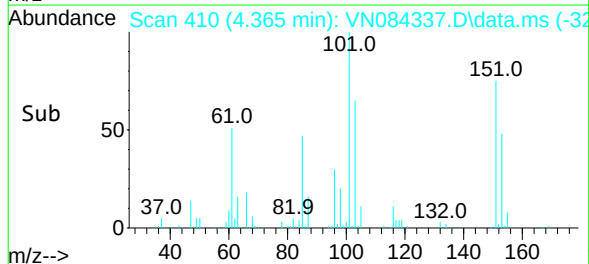
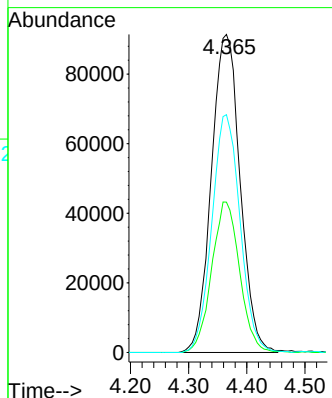
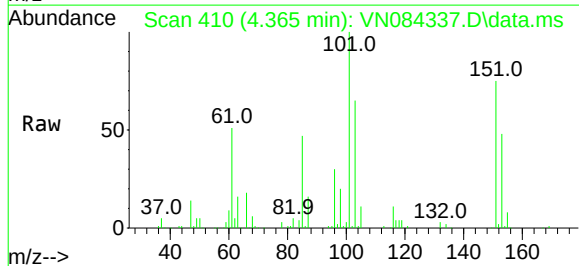
#9
1,1,2-Trichlorotrifluoroethane
Concen: 149.095 ug/l
RT: 4.365 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 314320
Ion Ratio Lower Upper
101 100
85 45.9 0.0 93.6
151 73.4 0.0 151.8

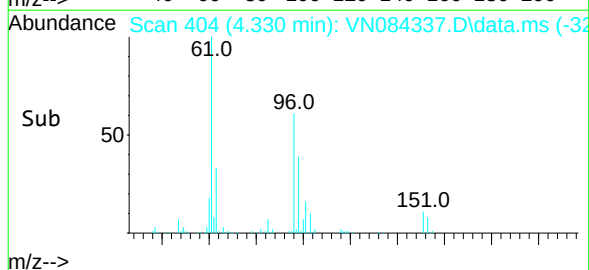
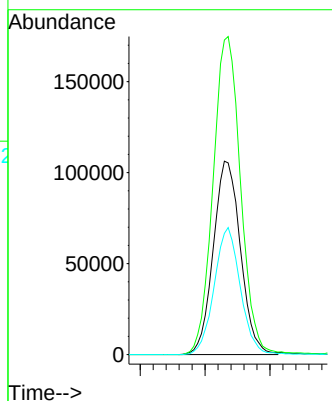
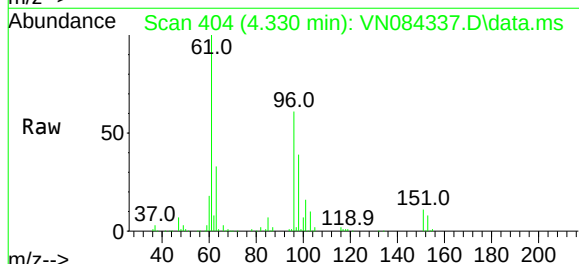
Manual Integrations
APPROVED

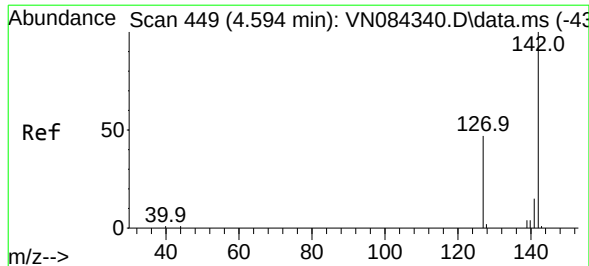
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#10
1,1-Dichloroethene
Concen: 147.186 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.012 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

Tgt Ion: 96 Resp: 309616
Ion Ratio Lower Upper
96 100
61 162.6 140.8 211.2
98 62.7 52.2 78.2





#11

Methyl Iodide

Concen: 152.937 ug/l

RT: 4.583 min Scan# 44

Delta R.T. -0.012 min

Lab File: VN084337.D

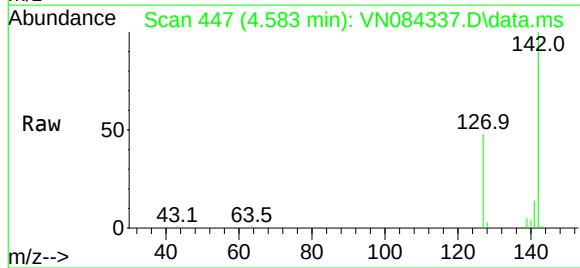
Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150



Tgt Ion:142 Resp: 422778

Ion Ratio Lower Upper

142 100

127 48.2 23.8 71.4

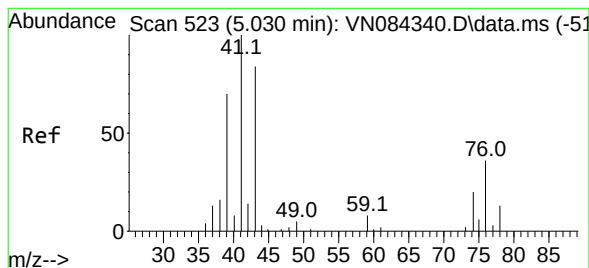
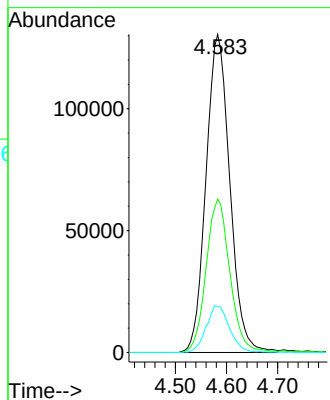
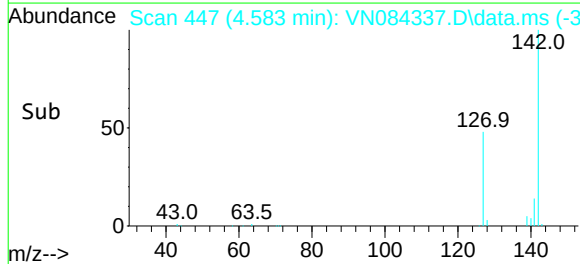
141 14.5 7.4 22.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#12

Methyl Acetate

Concen: 152.836 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.012 min

Lab File: VN084337.D

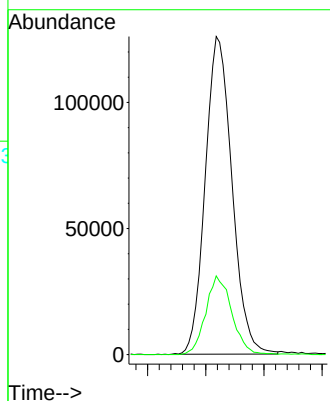
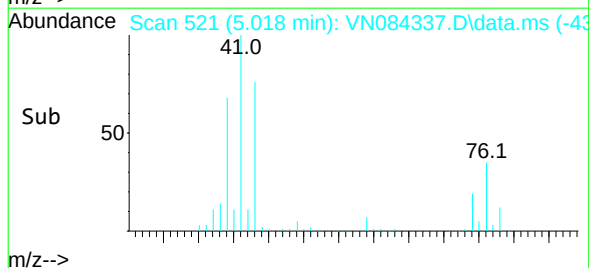
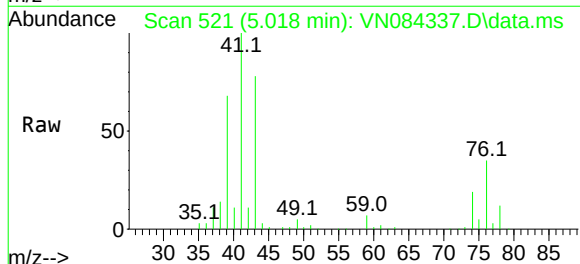
Acq: 08 Oct 2024 09:43

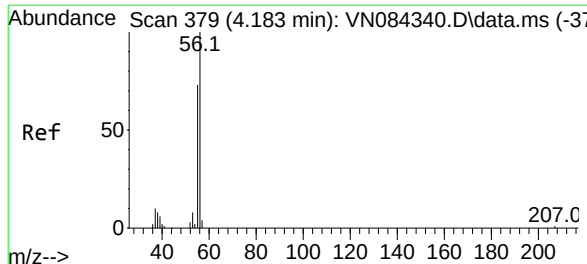
Tgt Ion: 43 Resp: 402489

Ion Ratio Lower Upper

43 100

74 24.8 19.4 29.2





#13

Acrolein

Concen: 758.829 ug/l

RT: 4.177 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 371221

Ion Ratio Lower Upper

56 100

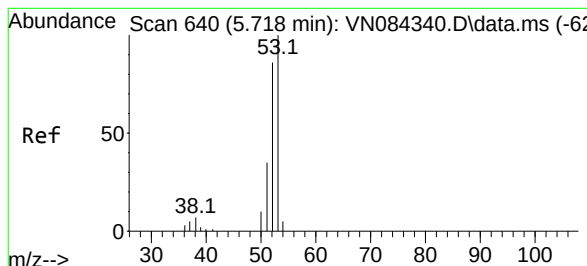
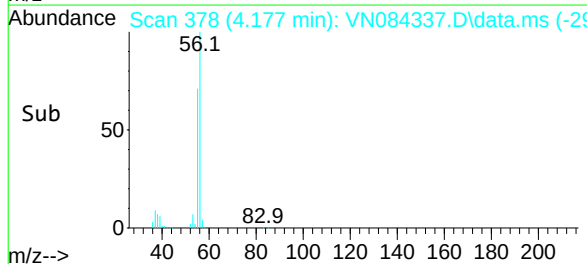
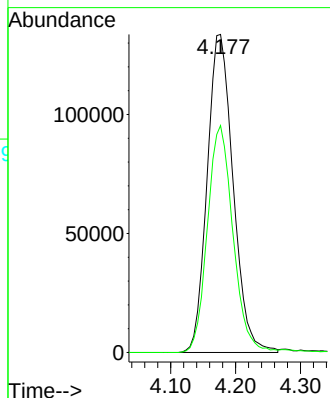
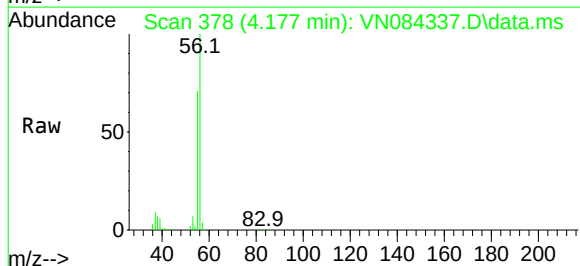
55 70.1 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#14

Acrylonitrile

Concen: 763.216 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

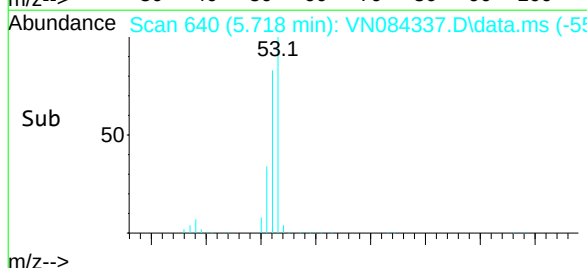
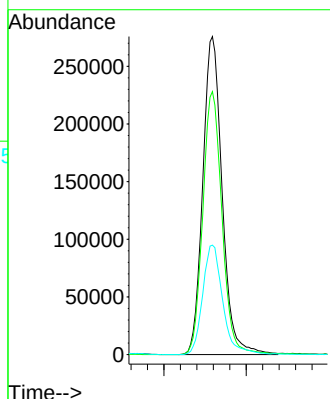
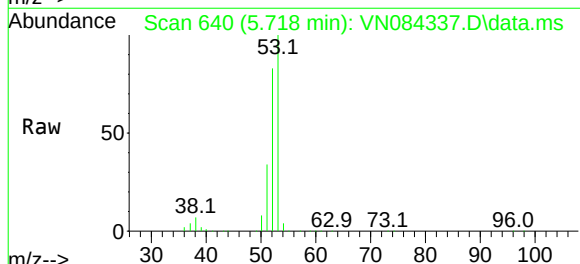
Tgt Ion: 53 Resp: 902986

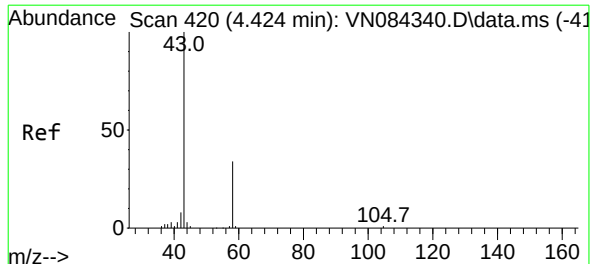
Ion Ratio Lower Upper

53 100

52 81.6 40.4 121.2

51 35.6 17.8 53.4





#15

Acetone

Concen: 821.289 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion: 58 Resp: 277575

Ion Ratio Lower Upper

58 100

43 307.5 237.5 356.3

Instrument :

MSVOA_N

ClientSampleId :

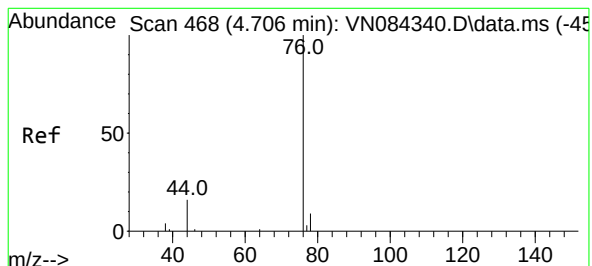
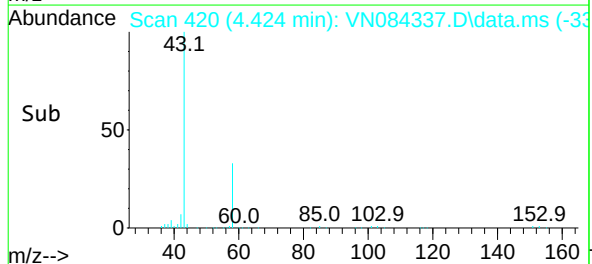
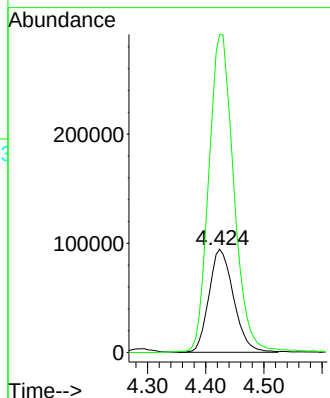
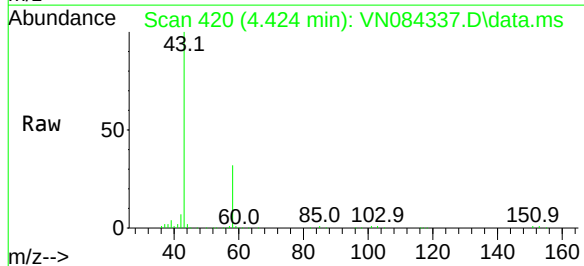
VSTDICC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#16

Carbon Disulfide

Concen: 145.236 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.000 min

Lab File: VN084337.D

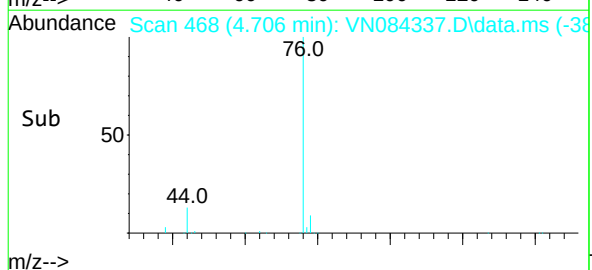
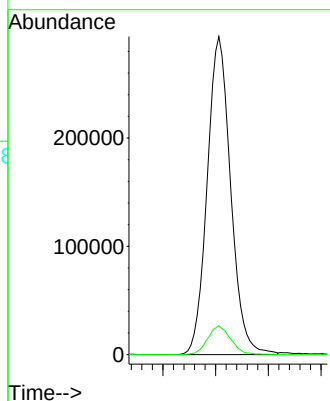
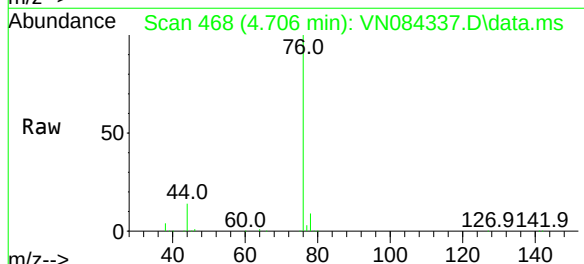
Acq: 08 Oct 2024 09:43

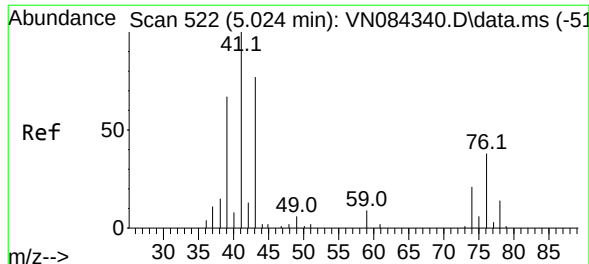
Tgt Ion: 76 Resp: 909776

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 150.078 ug/l

RT: 5.018 min Scan# 52

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

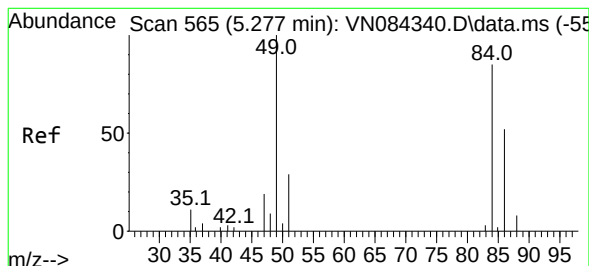
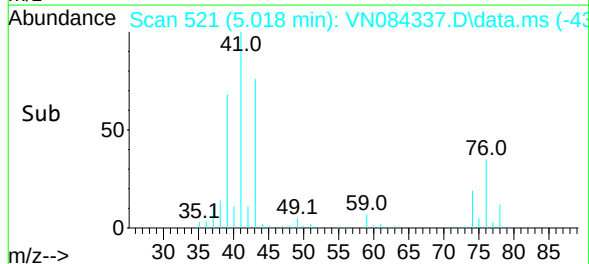
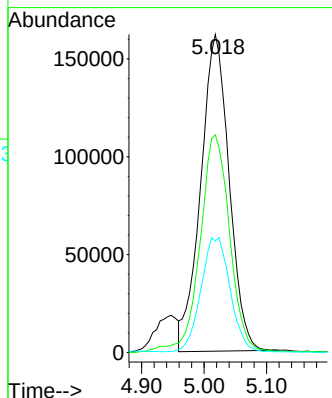
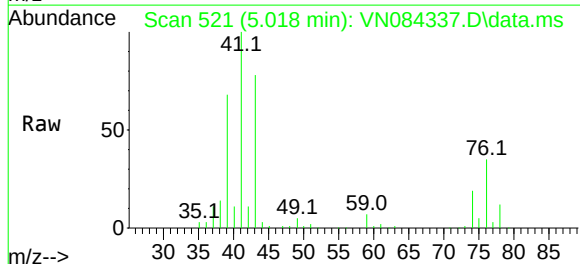
ClientSampleId :

VSTDICC150

Tgt Ion:	41	Resp:	511759
Ion	Ratio	Lower	Upper
41	100		
39	68.5	31.4	94.3
76	35.0	17.8	53.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#18

Methylene Chloride

Concen: 147.322 ug/l

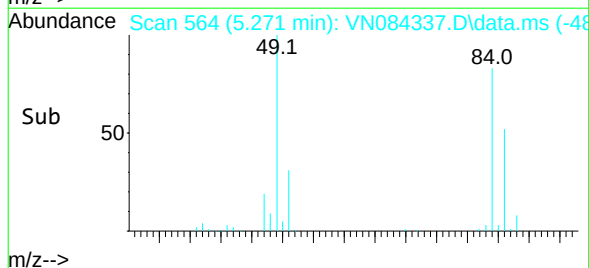
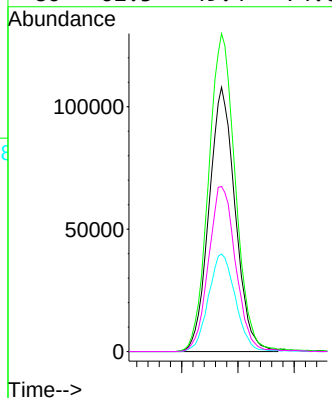
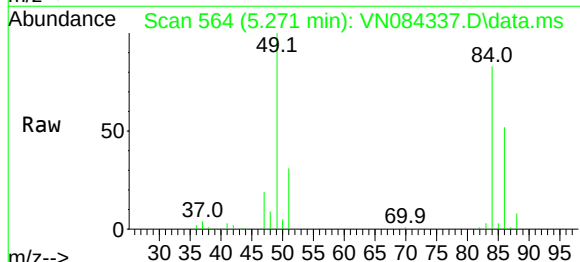
RT: 5.271 min Scan# 564

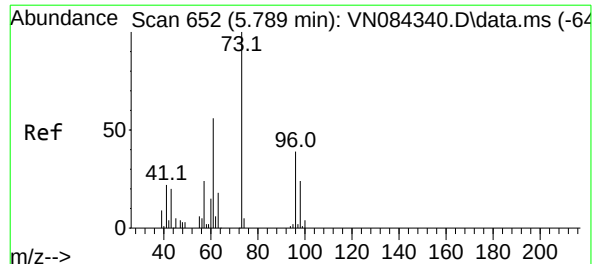
Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion:	84	Resp:	349106
Ion	Ratio	Lower	Upper
84	100		
49	120.0	94.6	142.0
51	36.9	27.3	40.9
86	62.3	49.4	74.0





#19

trans-1,2-Dichloroethene

Concen: 147.827 ug/l

RT: 5.783 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 96 Resp: 329107

Ion Ratio Lower Upper

96 100

61 140.0 115.8 173.6

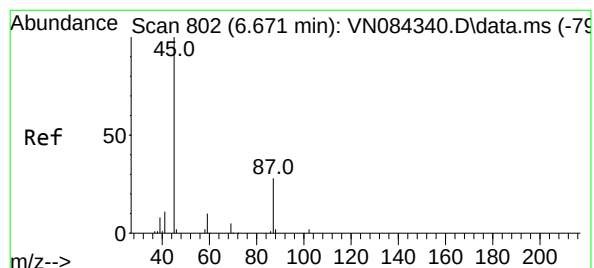
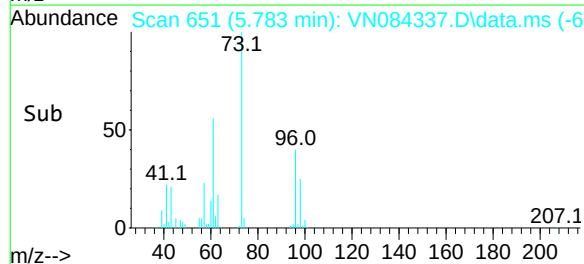
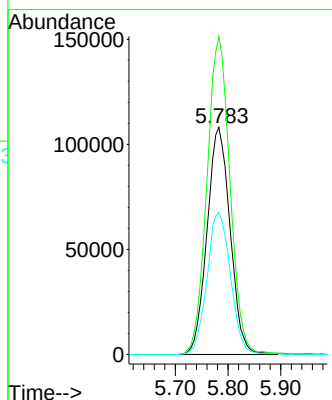
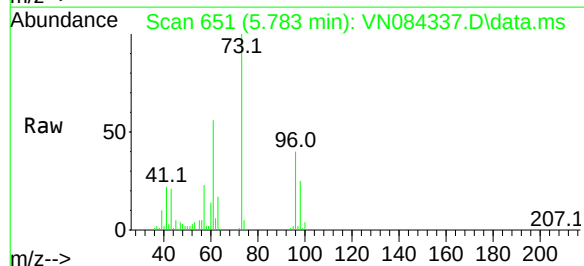
98 62.5 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#20

Diisopropyl ether

Concen: 151.956 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion: 45 Resp: 1114091

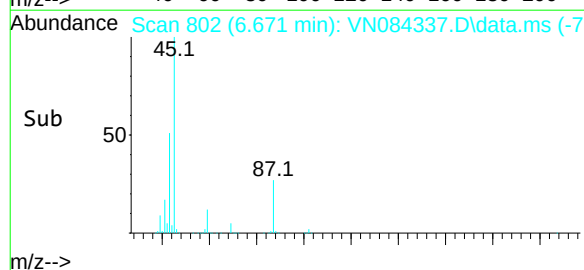
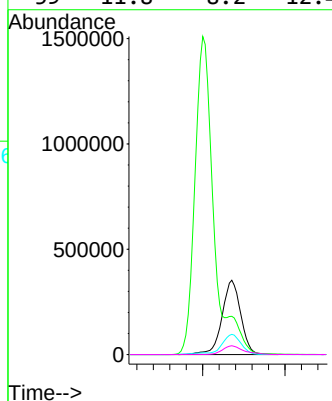
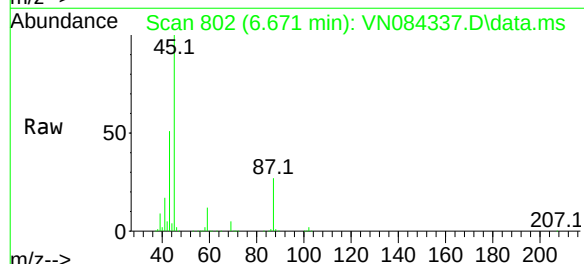
Ion Ratio Lower Upper

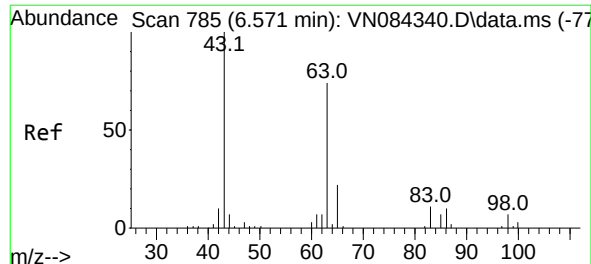
45 100

43 50.9 43.7 65.5

87 27.1 23.1 34.7

59 11.8 8.2 12.4





#21

1,1-Dichloroethane

Concen: 147.512 ug/l

RT: 6.571 min Scan# 78

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 620566

Ion Ratio Lower Upper

63 100

98 7.2 4.5 13.4

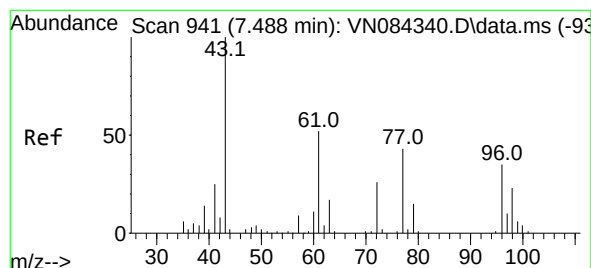
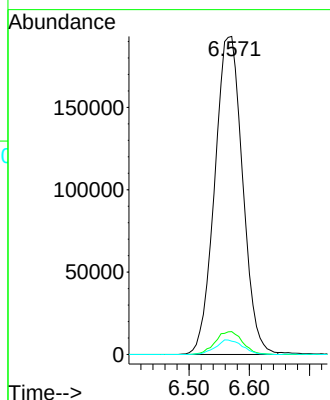
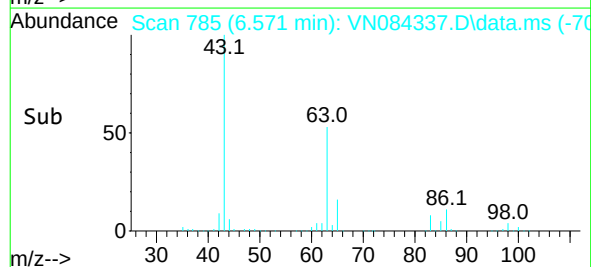
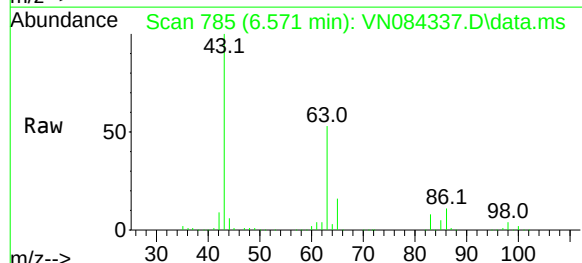
100 4.2 2.1 6.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#22

cis-1,2-Dichloroethene

Concen: 151.363 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

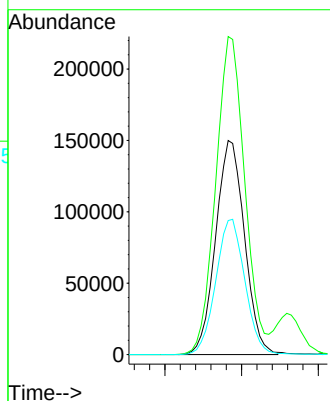
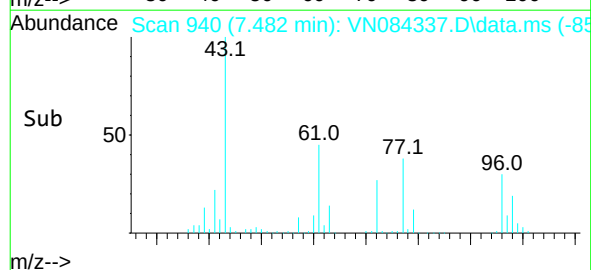
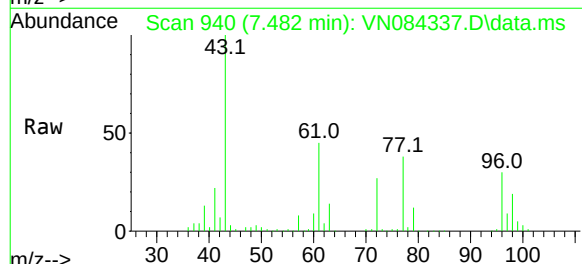
Tgt Ion: 96 Resp: 392124

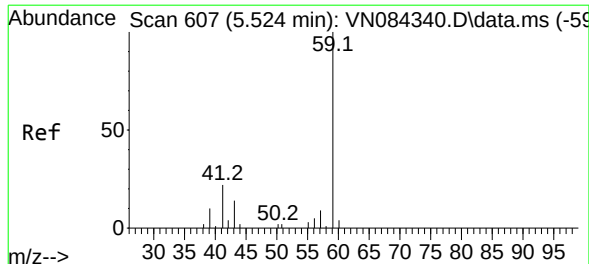
Ion Ratio Lower Upper

96 100

61 149.9 118.0 177.0

98 63.8 51.8 77.8





#23

tert-Butyl Alcohol

Concen: 734.096 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 333149

Ion Ratio Lower Upper

59 100

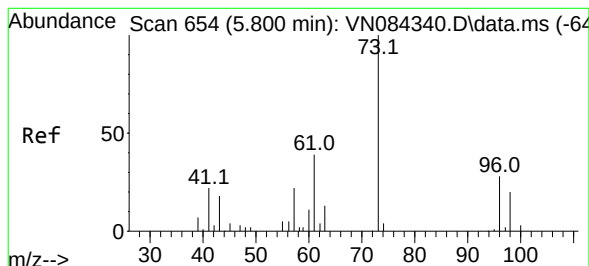
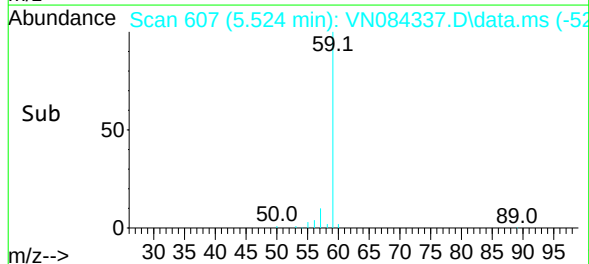
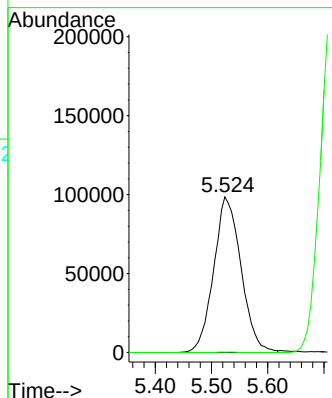
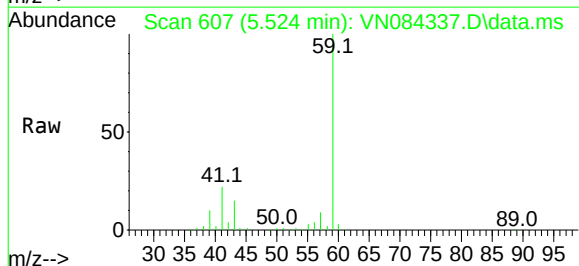
52 0.1 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#24

Methyl tert-Butyl Ether

Concen: 152.038 ug/l

RT: 5.794 min Scan# 653

Delta R.T. -0.006 min

Lab File: VN084337.D

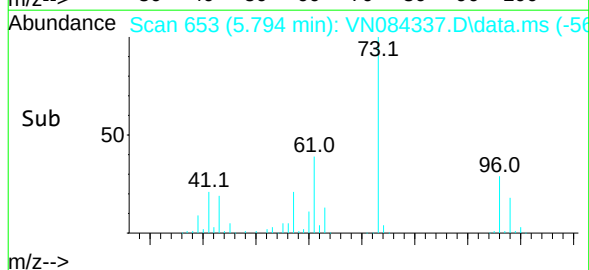
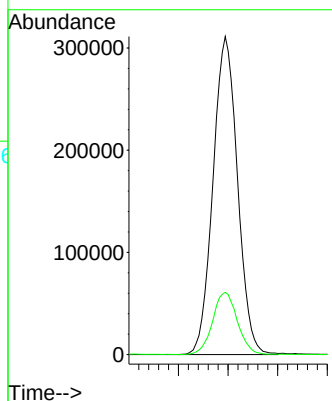
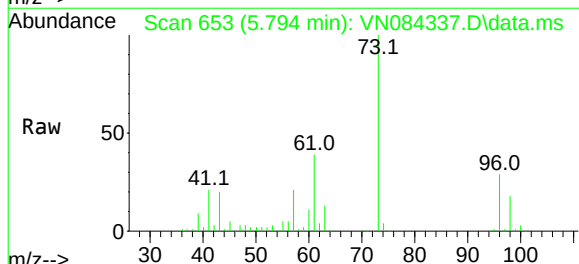
Acq: 08 Oct 2024 09:43

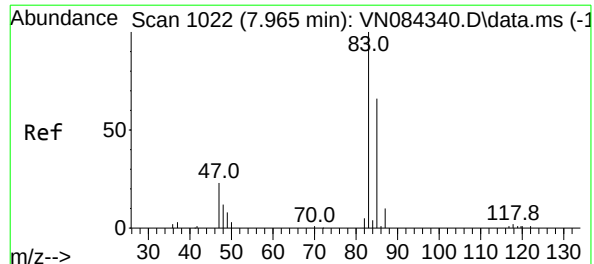
Tgt Ion: 73 Resp: 1068810

Ion Ratio Lower Upper

73 100

43 19.8 10.9 16.3#





#25

Chloroform

Concen: 149.030 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 634973

Ion Ratio Lower Upper

83 100

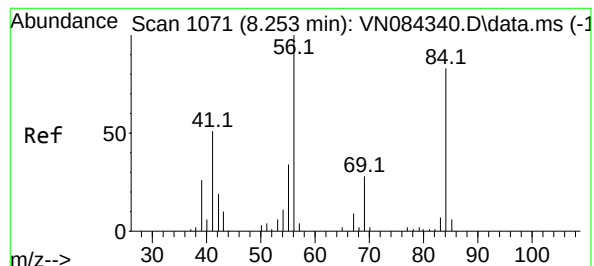
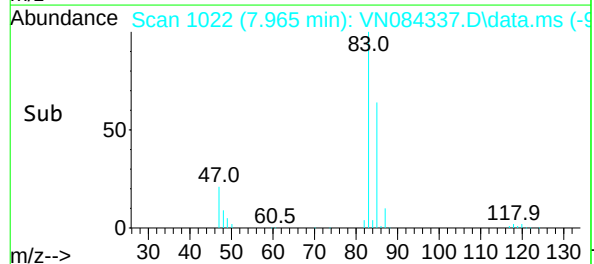
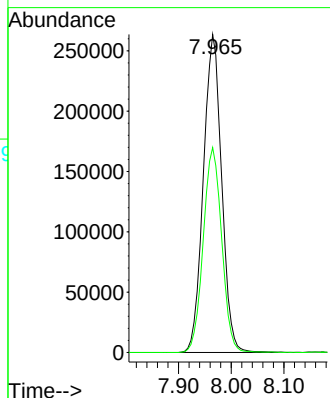
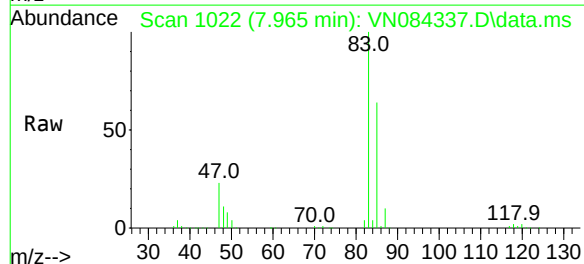
85 64.4 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#26

Cyclohexane

Concen: 153.272 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

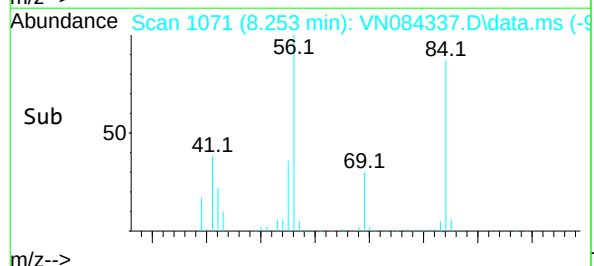
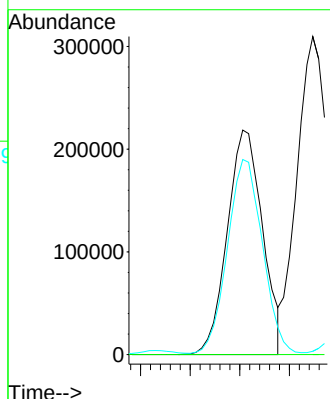
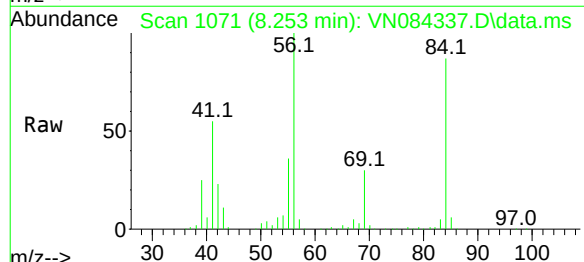
Tgt Ion: 56 Resp: 539286

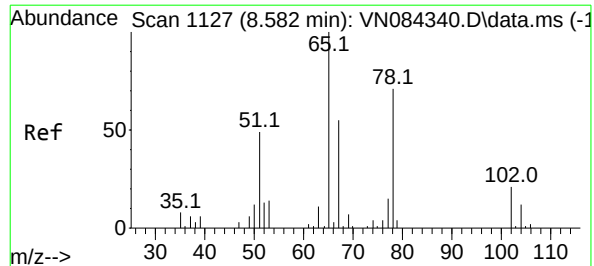
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.9 67.0 100.6





#27

1,2-Dichloroethane-d4

Concen: 29.718 ug/l

RT: 8.576 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 65 Resp: 80836

Ion Ratio Lower Upper

65 100

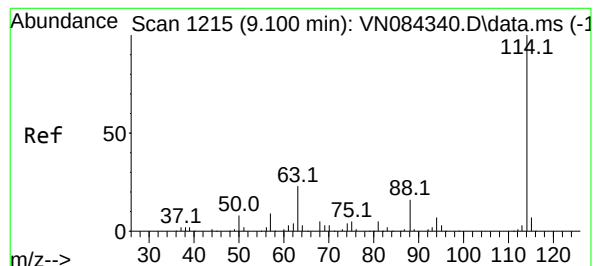
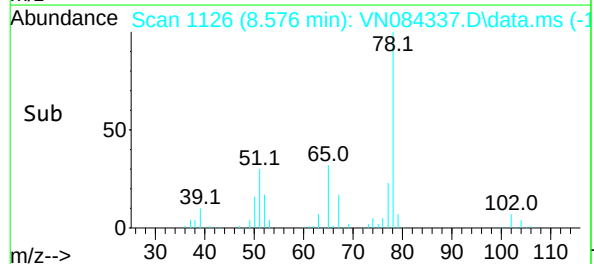
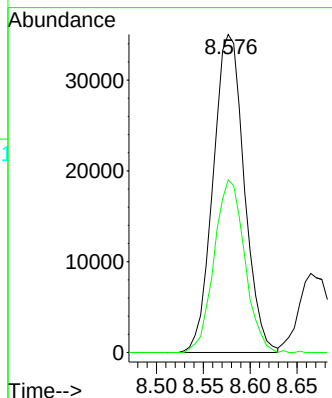
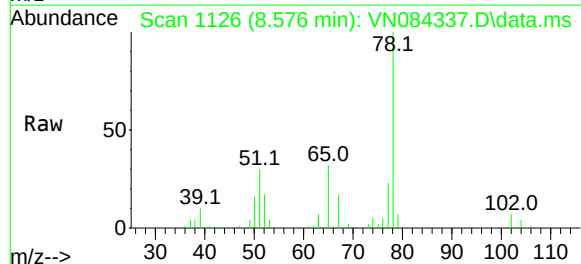
67 53.4 41.5 62.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

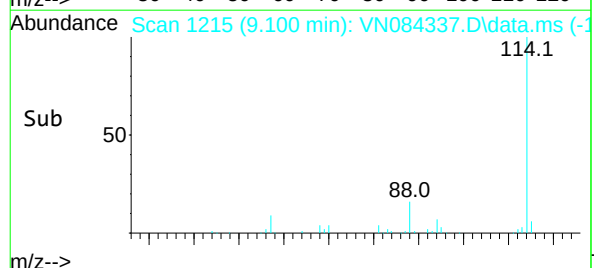
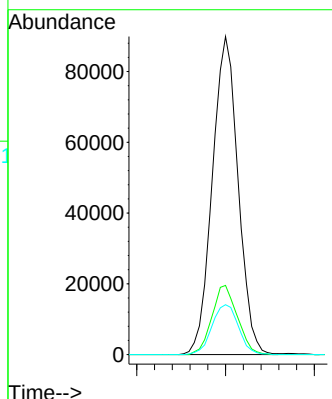
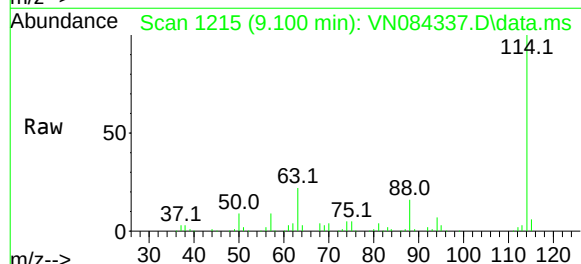
Tgt Ion:114 Resp: 181536

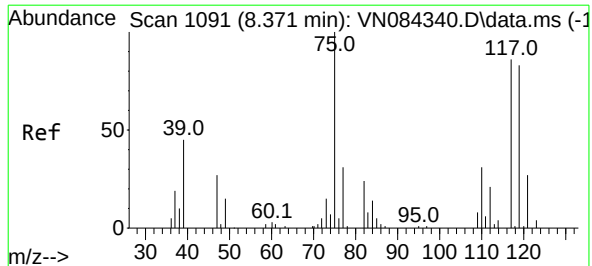
Ion Ratio Lower Upper

114 100

63 21.5 17.4 26.0

88 16.1 13.2 19.8





#29

1,1-Dichloropropene

Concen: 154.807 ug/l

RT: 8.371 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 461334

Ion Ratio Lower Upper

75 100

110 34.2 0.0 67.6

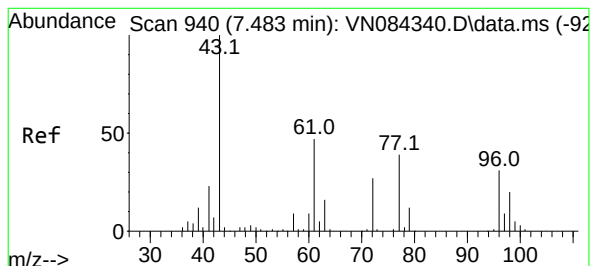
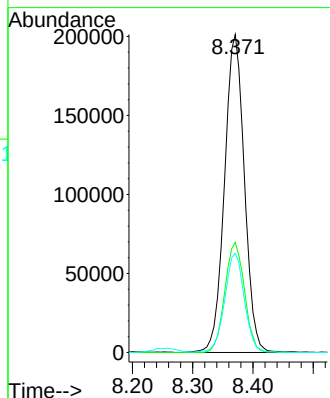
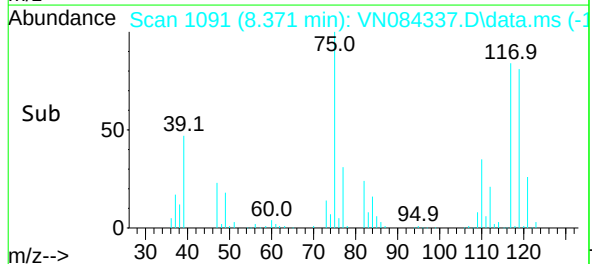
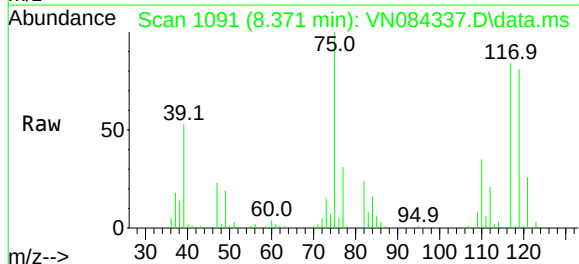
77 30.6 0.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#30

2-Butanone

Concen: 787.459 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

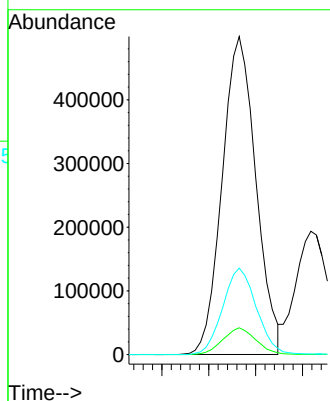
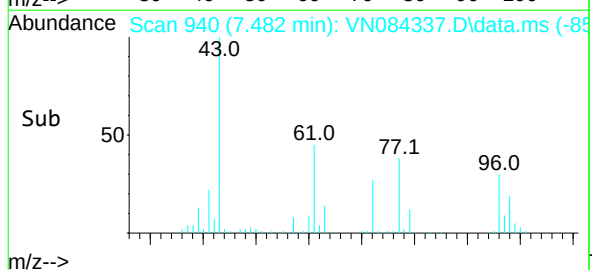
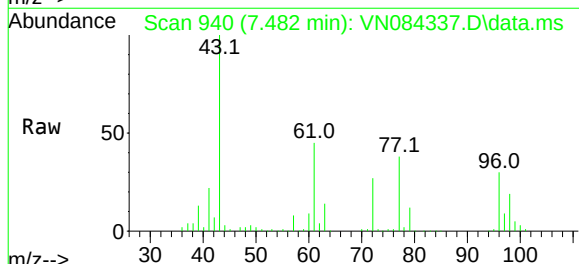
Tgt Ion: 43 Resp: 1249418

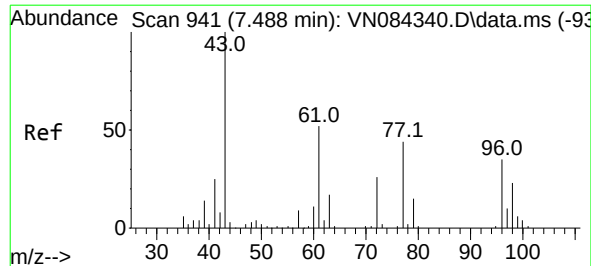
Ion Ratio Lower Upper

43 100

57 8.3 6.6 9.8

72 27.3 21.3 31.9





#31

2,2-Dichloropropane

Concen: 156.907 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 77 Resp: 549477

Ion Ratio Lower Upper

77 100

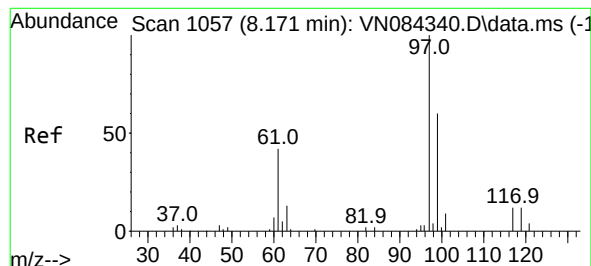
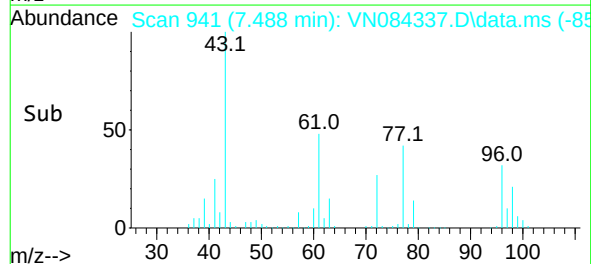
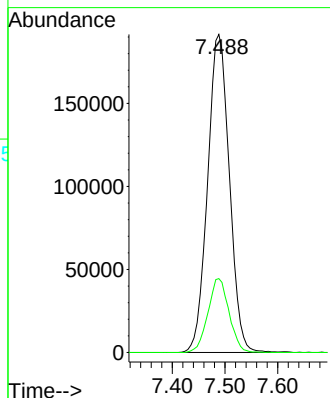
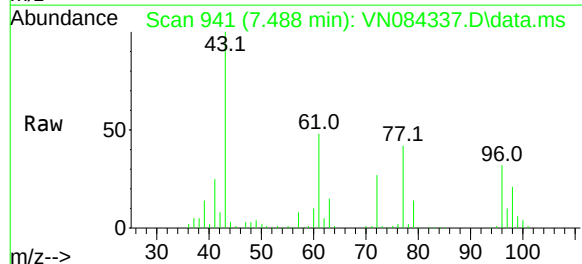
97 22.5 11.5 17.3#

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#32

1,1,1-Trichloroethane

Concen: 150.045 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

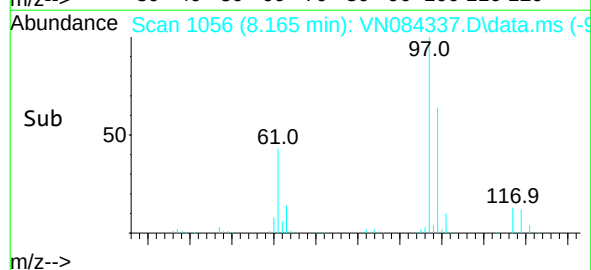
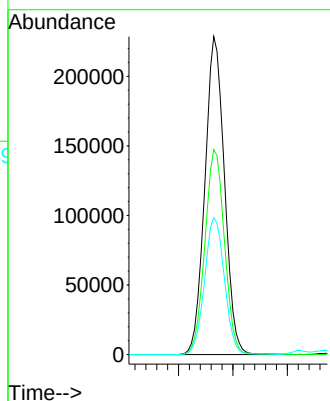
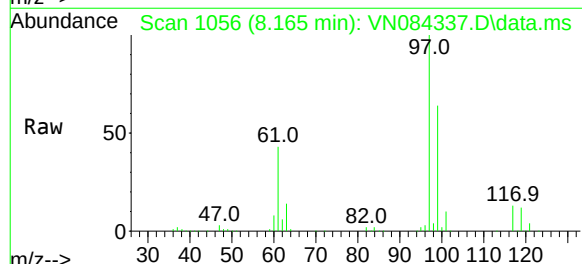
Tgt Ion: 97 Resp: 571549

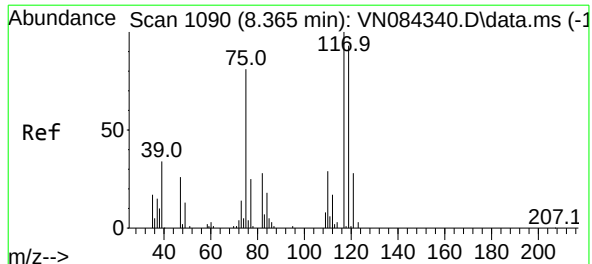
Ion Ratio Lower Upper

97 100

99 64.5 51.2 76.8

61 43.7 34.1 51.1





#33

Carbon Tetrachloride

Concen: 152.921 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VN084337.D

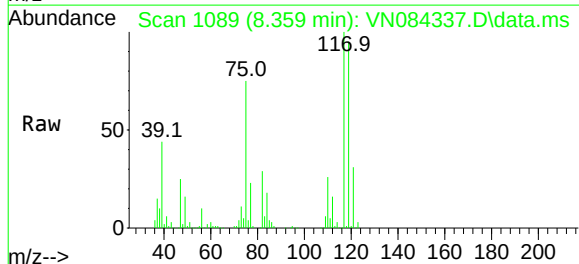
Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

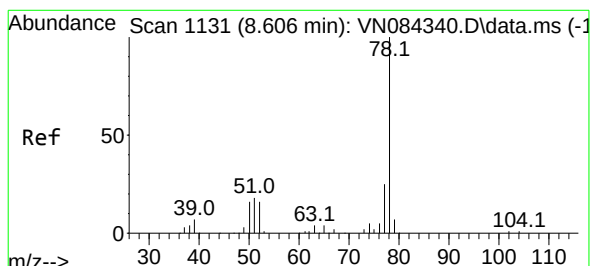
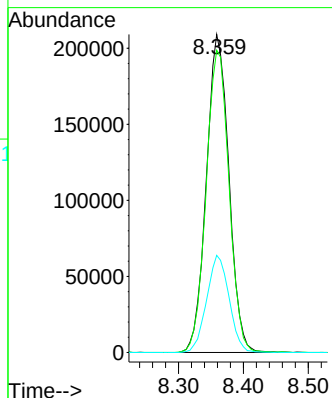
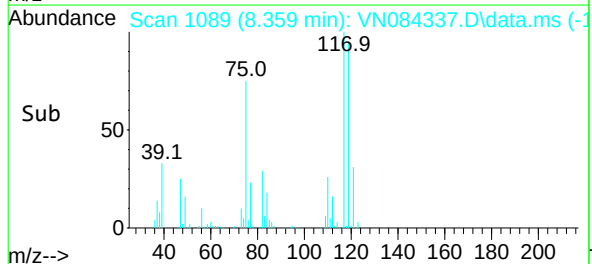
VSTDIC150



Tgt Ion:	117	Resp:	504637
Ion	Ratio	Lower	Upper
117	100		
119	94.9	74.3	111.5
121	30.6	22.4	33.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#34

Benzene

Concen: 152.821 ug/l

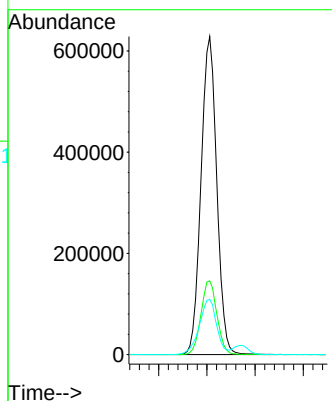
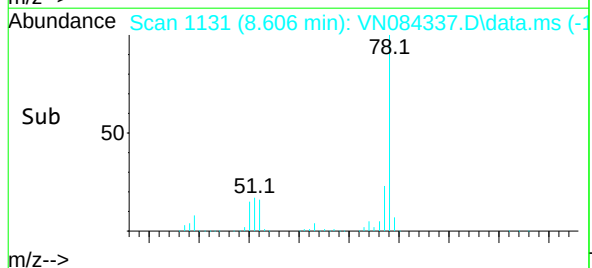
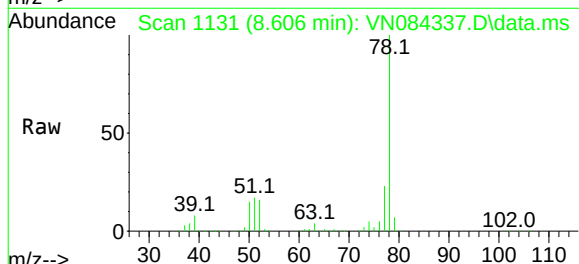
RT: 8.606 min Scan# 1131

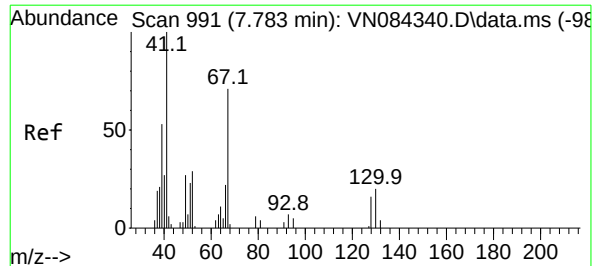
Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion:	78	Resp:	1425580
Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.6	29.4
51	17.4	15.8	23.6





#35

Methacrylonitrile

Concen: 165.128 ug/l

RT: 7.777 min Scan# 991

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 41 Resp: 279509

Ion Ratio Lower Upper

41 100

39 52.5 26.4 79.0

67 70.6 35.7 107.1

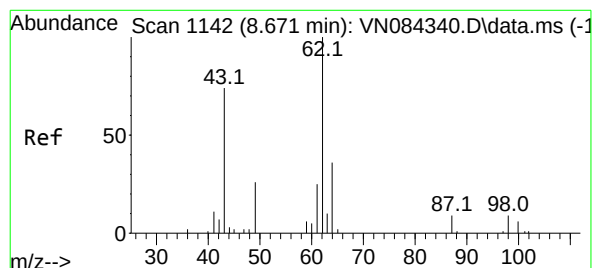
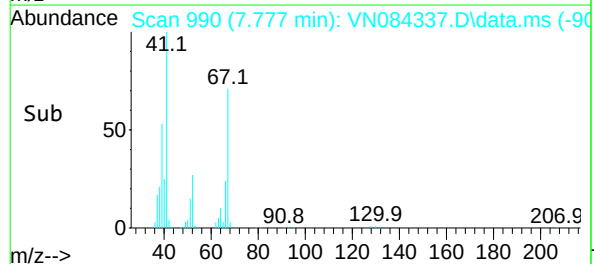
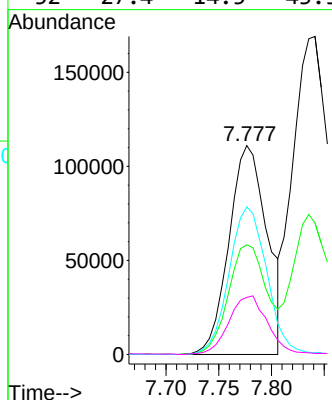
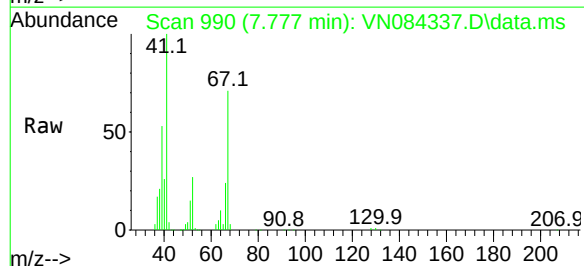
52 27.4 14.5 43.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#36

1,2-Dichloroethane

Concen: 151.686 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084337.D

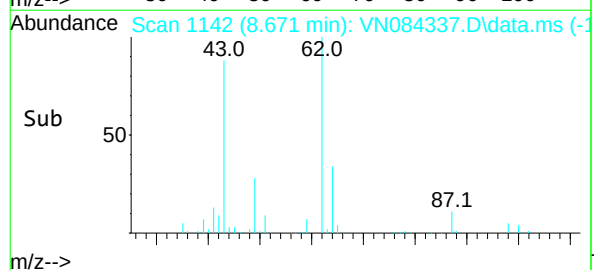
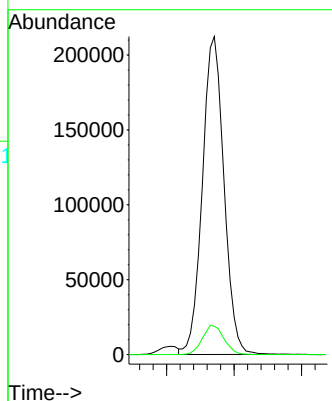
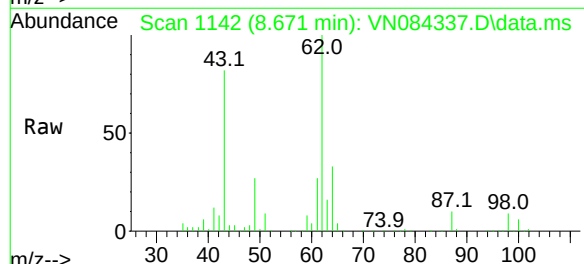
Acq: 08 Oct 2024 09:43

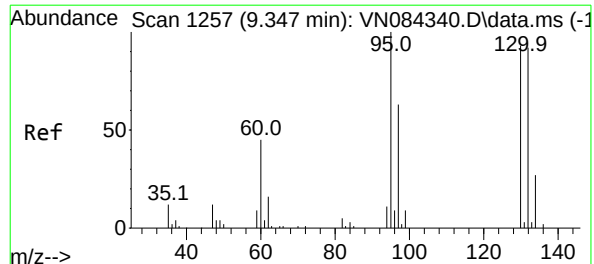
Tgt Ion: 62 Resp: 471651

Ion Ratio Lower Upper

62 100

98 9.2 7.3 10.9





#37

Trichloroethene

Concen: 151.266 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN084337.D

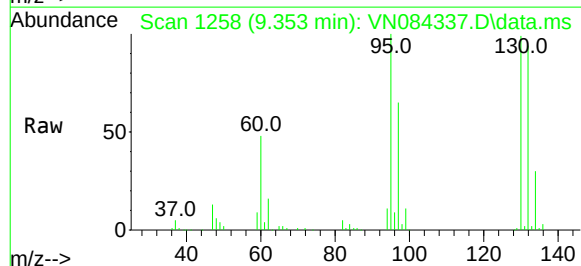
Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150



Tgt Ion:130 Resp: 324936

Ion Ratio Lower Upper

130 100

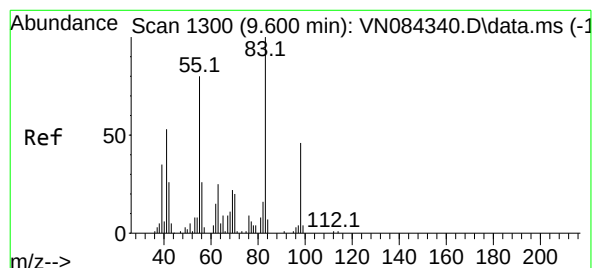
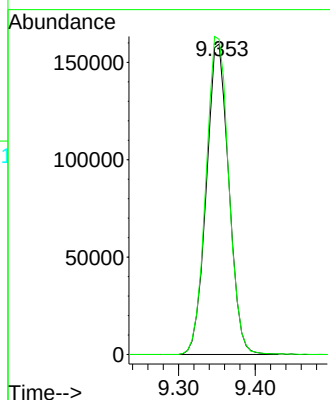
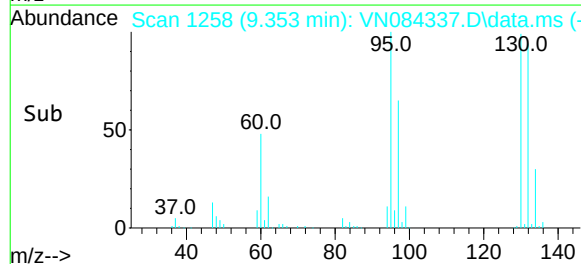
95 101.5 85.8 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#38

Methylcyclohexane

Concen: 164.564 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

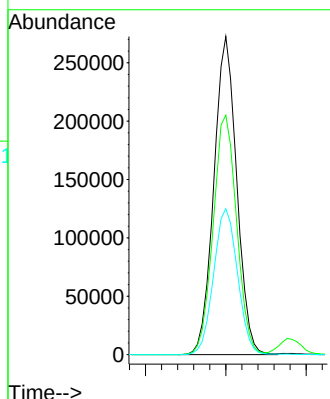
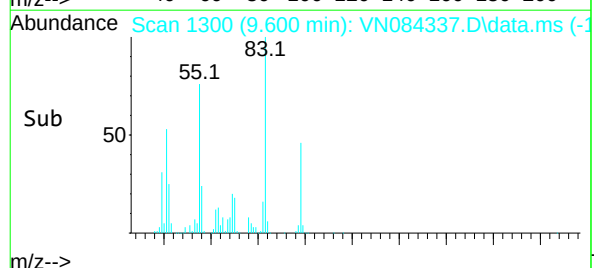
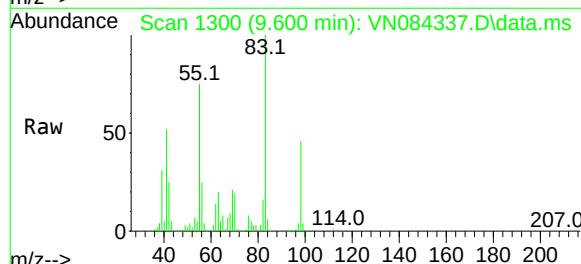
Tgt Ion: 83 Resp: 538684

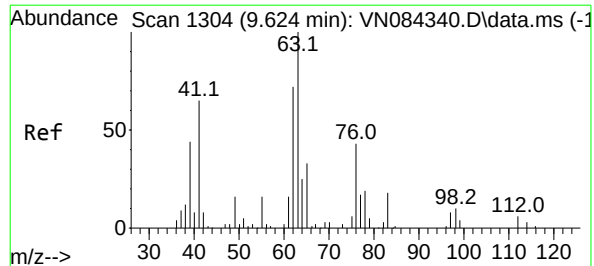
Ion Ratio Lower Upper

83 100

55 77.3 39.3 117.8

98 47.9 24.0 72.0





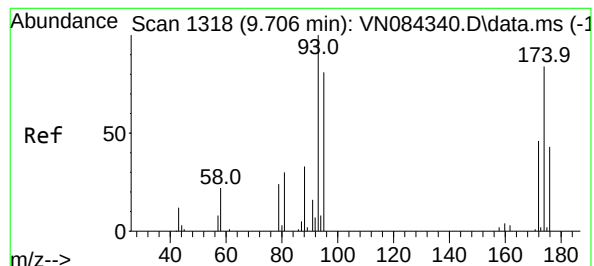
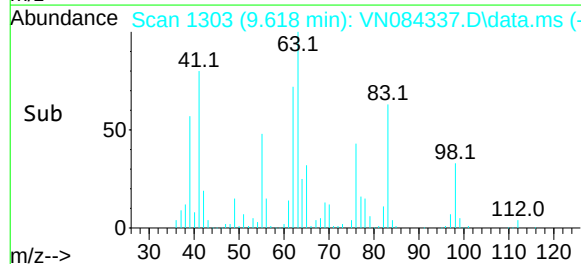
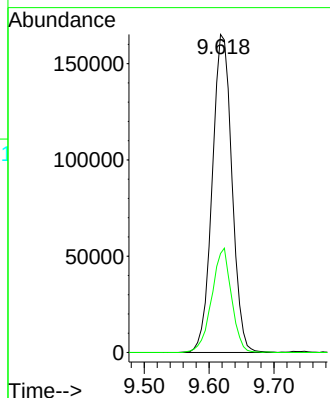
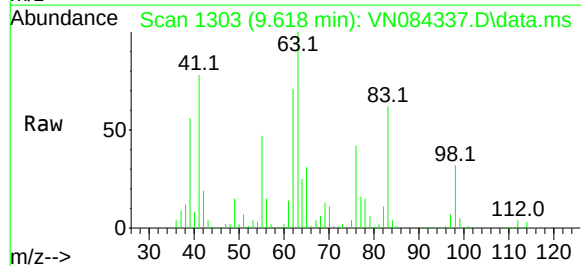
#39
1,2-Dichloropropane
Concen: 153.071 ug/l
RT: 9.618 min Scan# 1304
Delta R.T. -0.006 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 348207
Ion Ratio Lower Upper
63 100
65 31.1 26.3 39.5

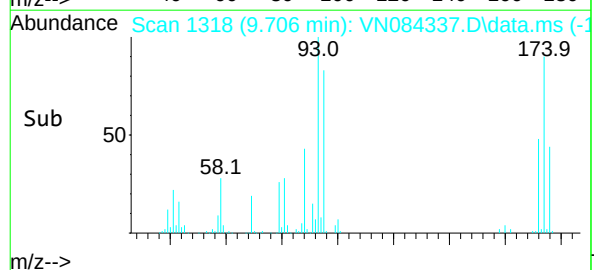
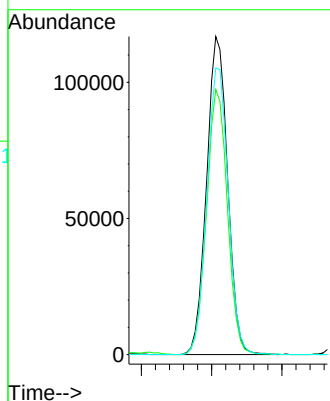
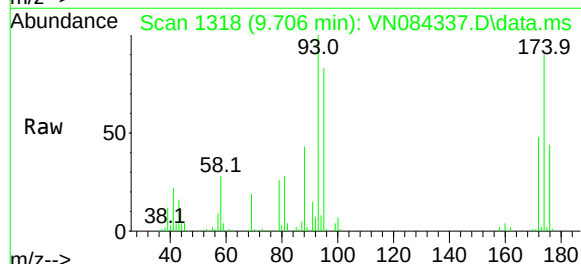
Manual Integrations
APPROVED

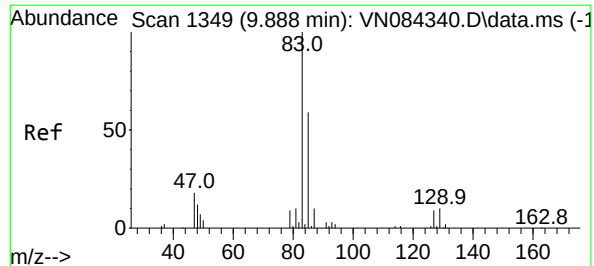
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#40
Dibromomethane
Concen: 152.917 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

Tgt Ion: 93 Resp: 243118
Ion Ratio Lower Upper
93 100
95 82.6 0.0 171.4
174 91.2 0.0 183.0





#41

Bromodichloromethane

Concen: 152.872 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 515968

Ion Ratio Lower Upper

83 100

85 63.9 47.1 70.7

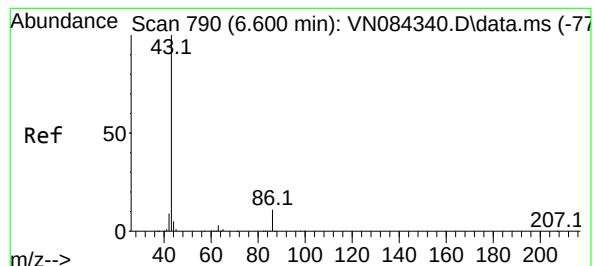
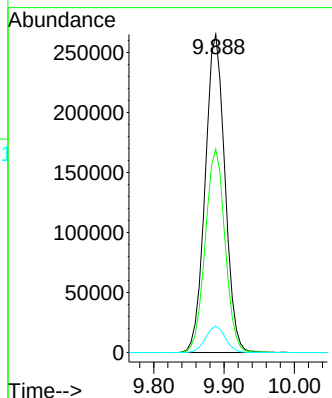
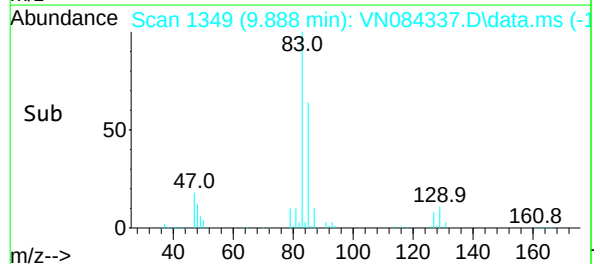
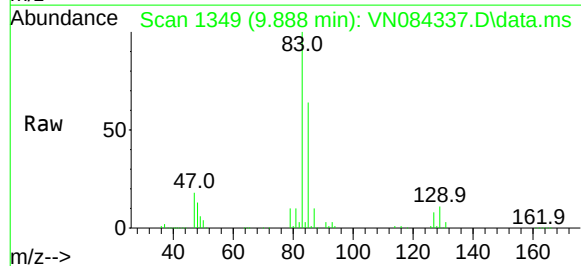
127 8.3 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#42

Vinyl Acetate

Concen: 789.646 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN084337.D

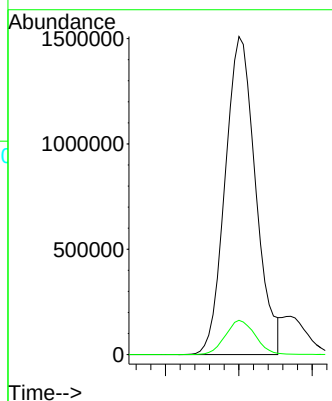
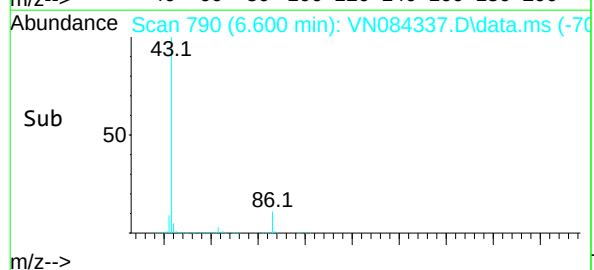
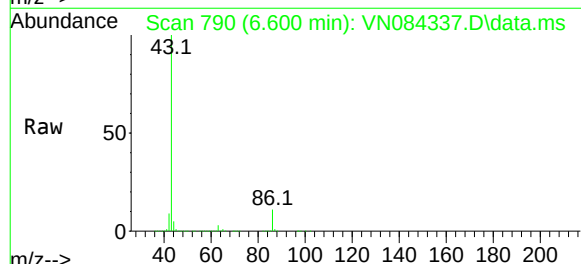
Acq: 08 Oct 2024 09:43

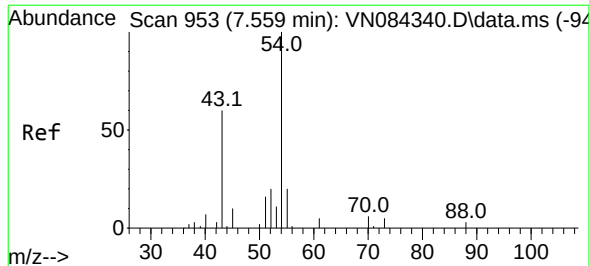
Tgt Ion: 43 Resp: 4357419

Ion Ratio Lower Upper

43 100

86 10.6 8.5 12.7





#43

Ethyl Acetate

Concen: 154.753 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 484255

Ion Ratio Lower Upper

43 100

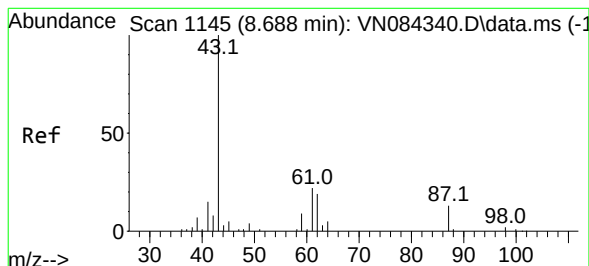
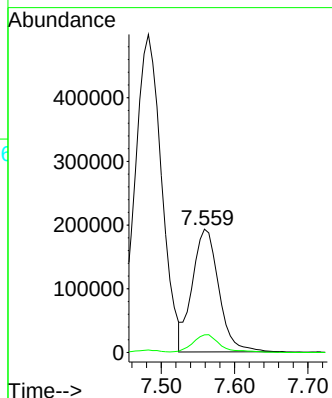
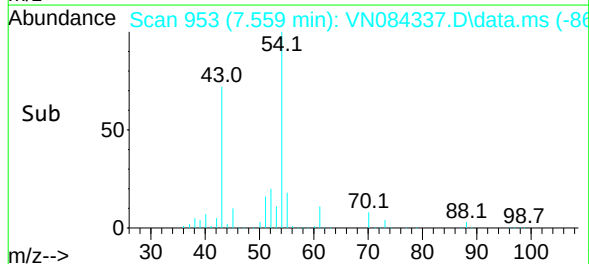
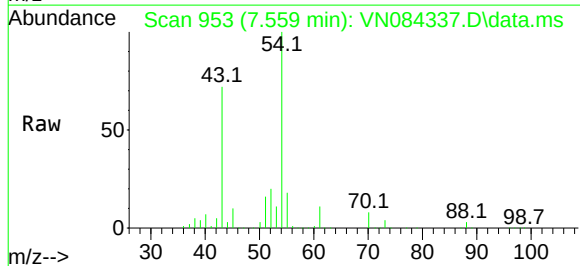
45 13.2 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#44

Isopropyl Acetate

Concen: 157.943 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN084337.D

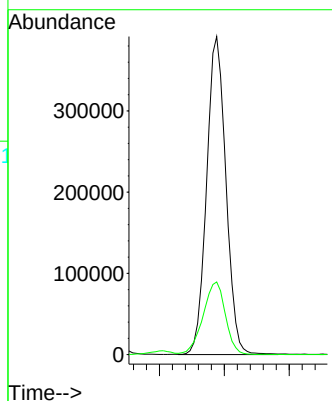
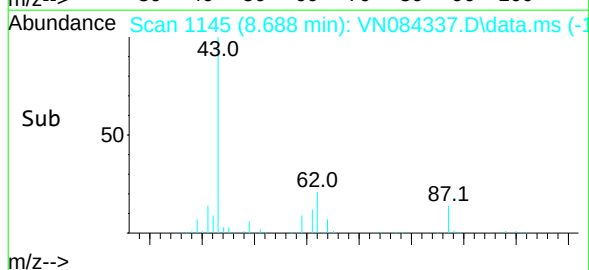
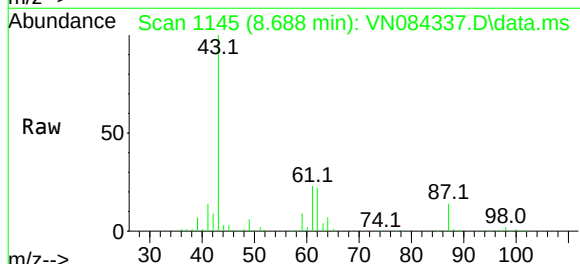
Acq: 08 Oct 2024 09:43

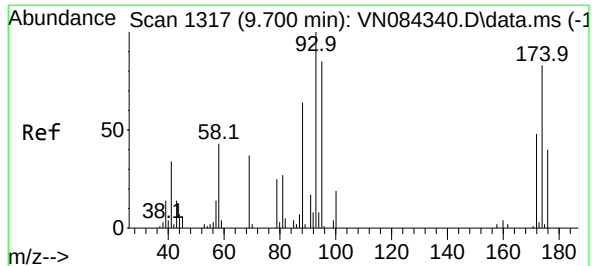
Tgt Ion: 43 Resp: 808933

Ion Ratio Lower Upper

43 100

61 26.4 21.4 32.2





#45

1,4-Dioxane

Concen: 3200.393 ug/l

RT: 9.694 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN084337.D

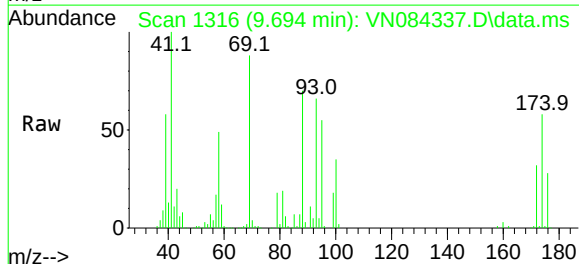
Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150



Tgt Ion: 88 Resp: 147762

Ion Ratio Lower Upper

88 100

43 29.1 22.4 33.6

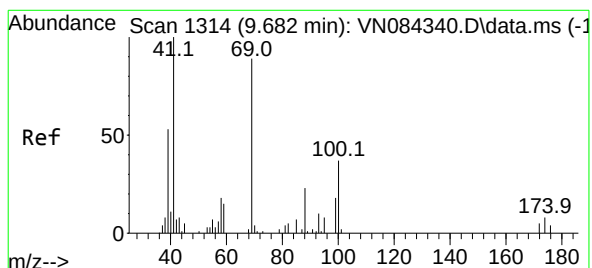
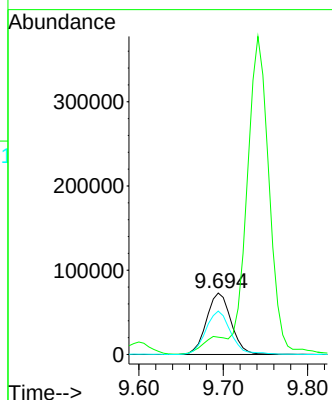
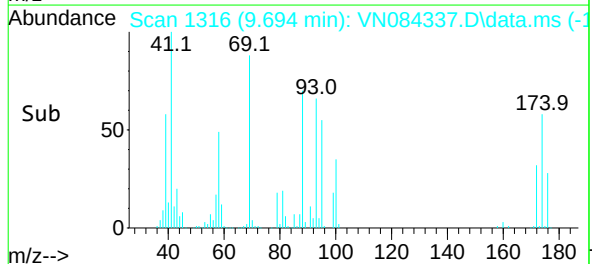
58 72.4 59.7 89.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#46

Methyl methacrylate

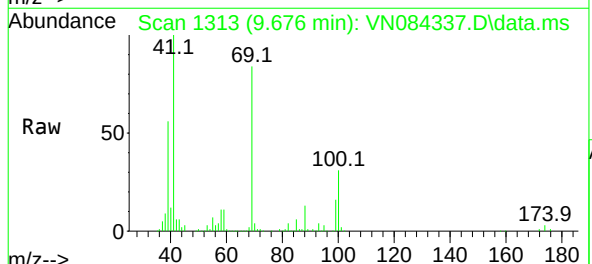
Concen: 158.224 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43



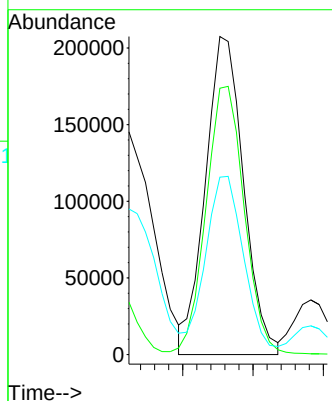
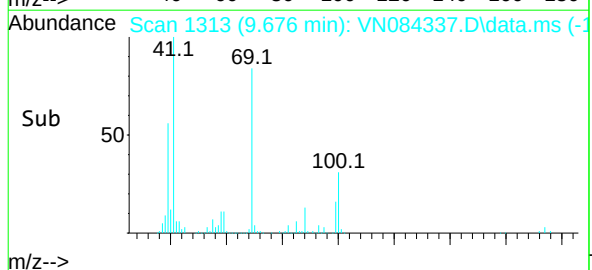
Tgt Ion: 41 Resp: 391545

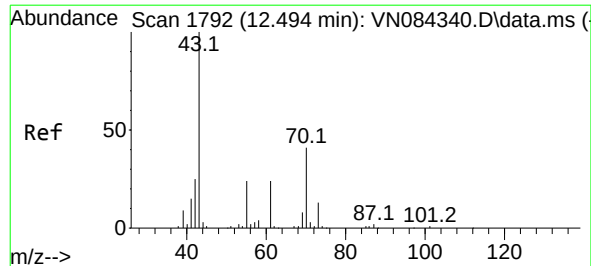
Ion Ratio Lower Upper

41 100

69 85.4 42.6 128.0

39 55.3 27.5 82.4





#47

n-amy1 Acetate

Concen: 165.124 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 752246

Ion Ratio Lower Upper

43 100

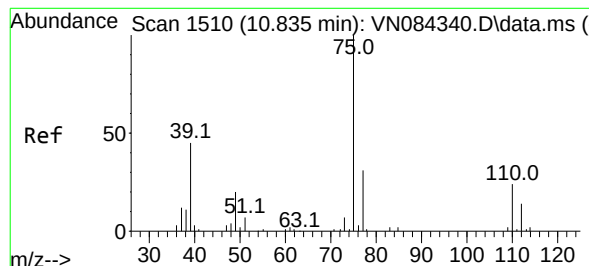
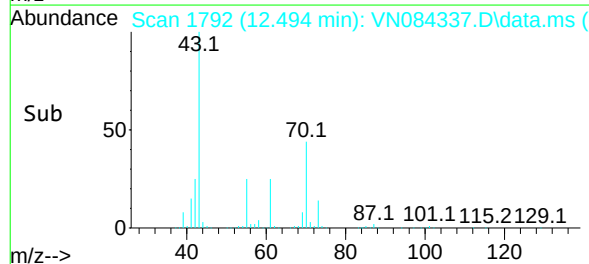
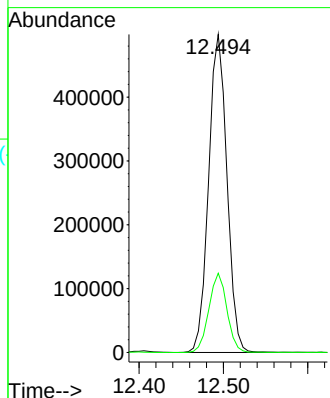
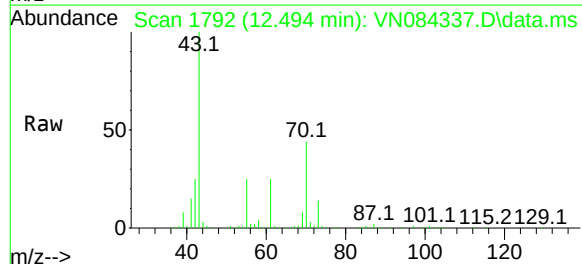
55 24.5 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#48

t-1,3-Dichloropropene

Concen: 156.926 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN084337.D

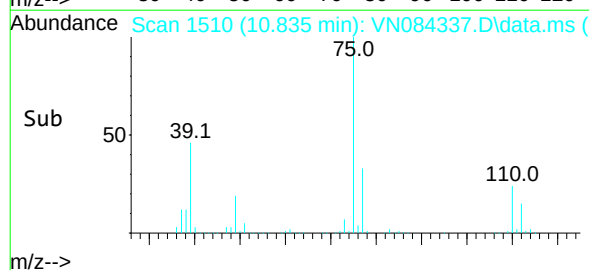
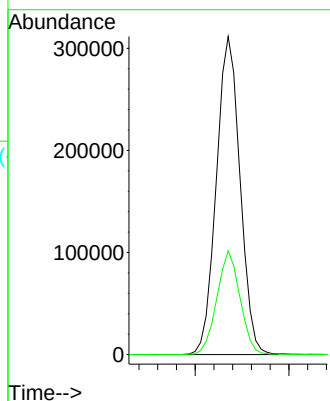
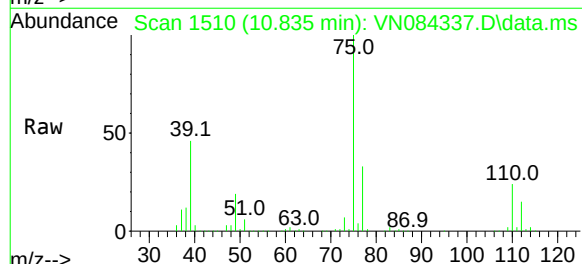
Acq: 08 Oct 2024 09:43

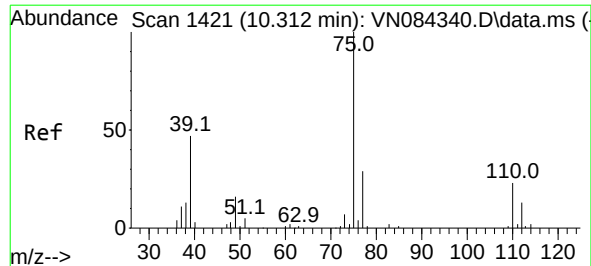
Tgt Ion: 75 Resp: 547316

Ion Ratio Lower Upper

75 100

77 32.6 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 158.273 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 578523

Ion Ratio Lower Upper

75 100

77 31.8 22.9 34.3

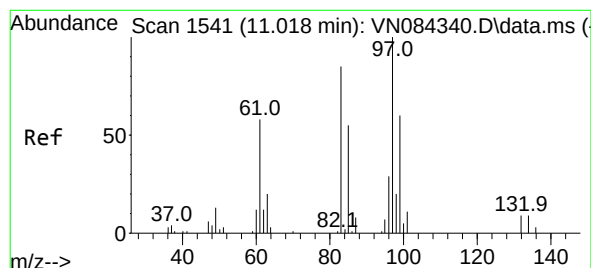
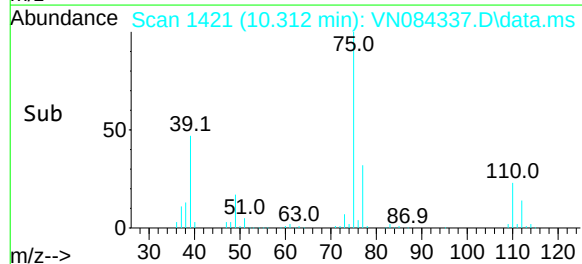
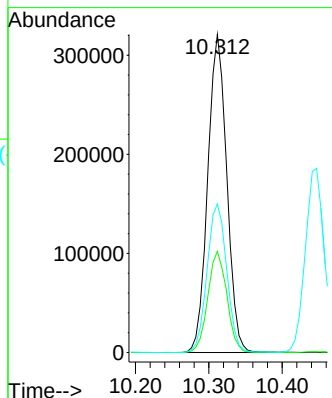
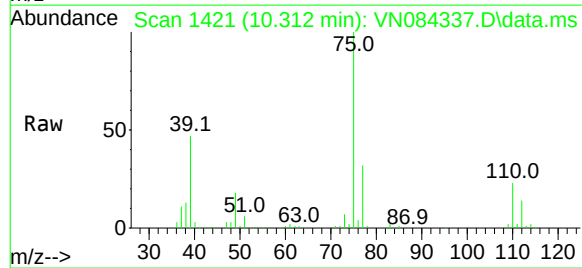
39 46.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#50

1,1,2-Trichloroethane

Concen: 151.179 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion: 97 Resp: 323065

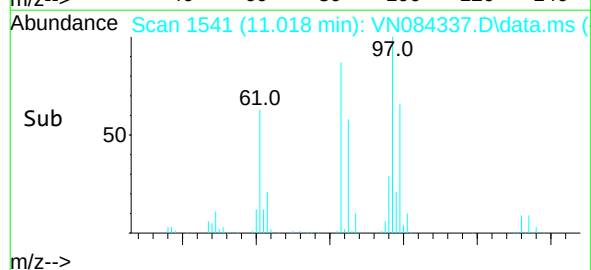
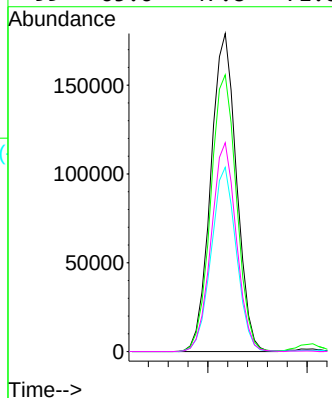
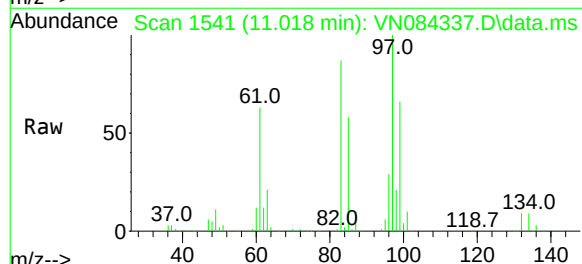
Ion Ratio Lower Upper

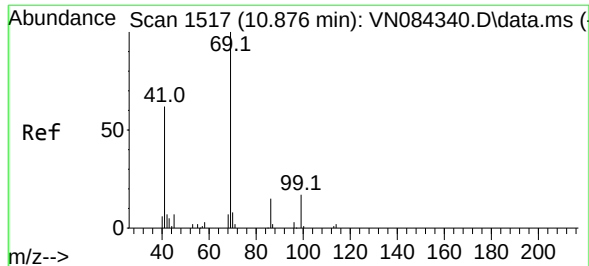
97 100

83 86.9 67.8 101.8

85 58.0 44.2 66.2

99 65.6 47.8 71.8





#51

Ethyl methacrylate

Concen: 164.863 ug/l

RT: 10.870 min Scan# 1517

Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

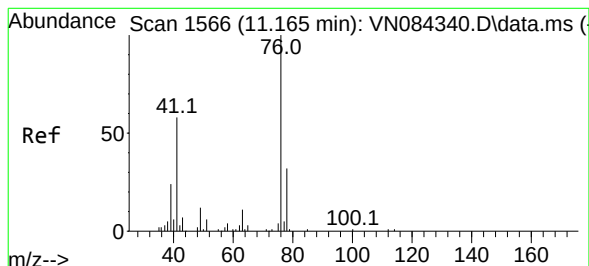
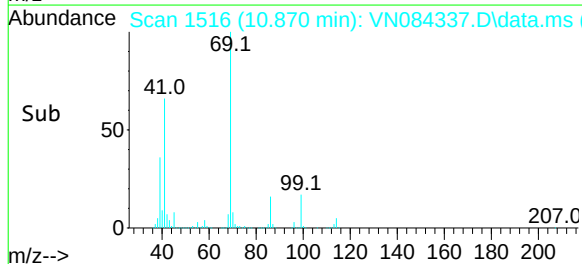
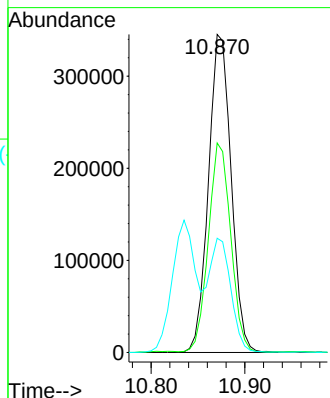
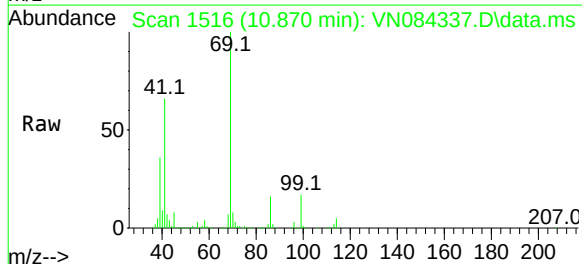
VSTDIC150

Tgt Ion:	69	Resp:	581930
Ion	Ratio	Lower	Upper
69	100		
41	65.7	30.9	92.7
39	35.8	16.6	49.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#52

1,3-Dichloropropane

Concen: 152.279 ug/l

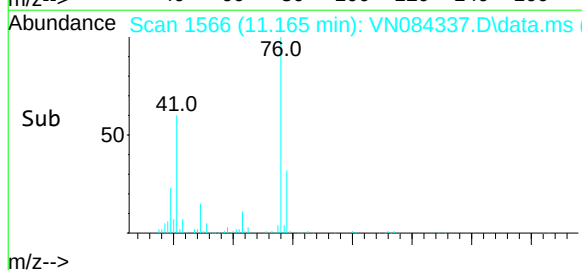
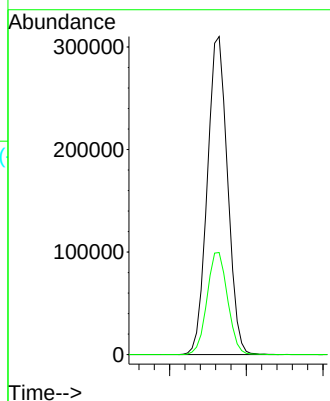
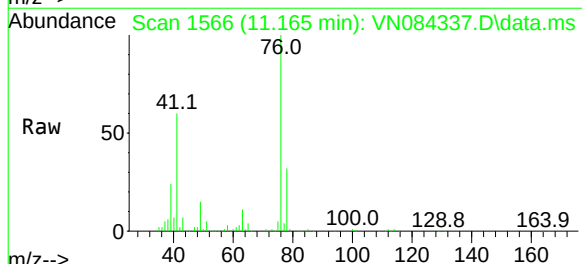
RT: 11.165 min Scan# 1566

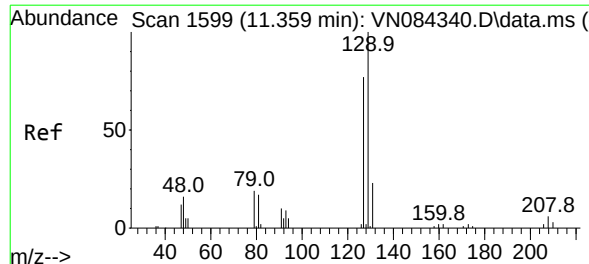
Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion:	76	Resp:	568999
Ion	Ratio	Lower	Upper
76	100		
78	32.6	0.0	64.2





#53

Dibromochloromethane

Concen: 154.875 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:129 Resp: 390970

Ion Ratio Lower Upper

129 100

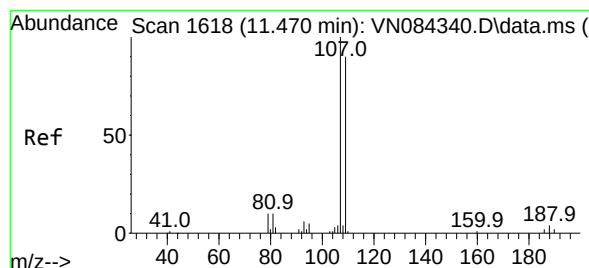
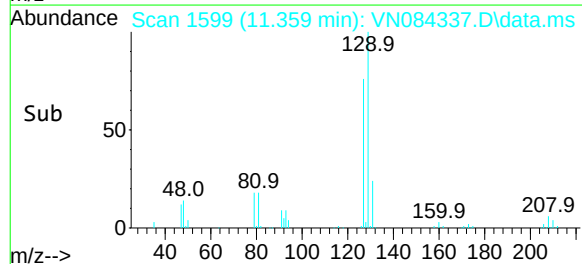
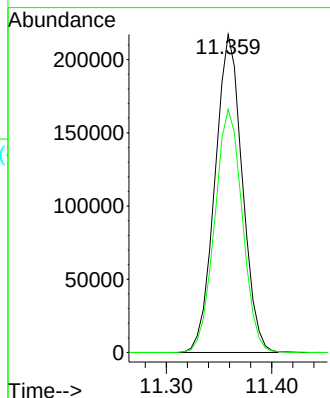
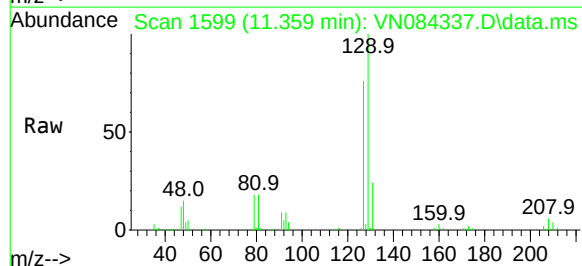
127 77.4 38.5 115.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#54

1,2-Dibromoethane

Concen: 153.033 ug/l

RT: 11.470 min Scan# 1618

Delta R.T. -0.000 min

Lab File: VN084337.D

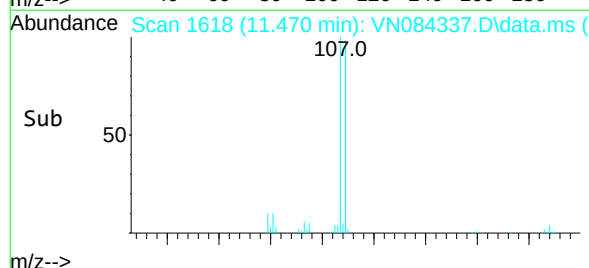
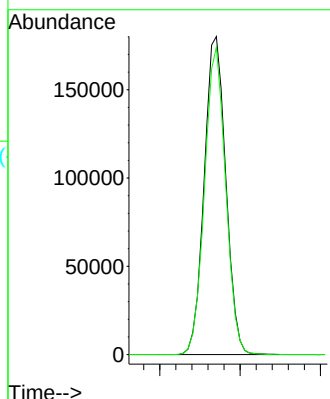
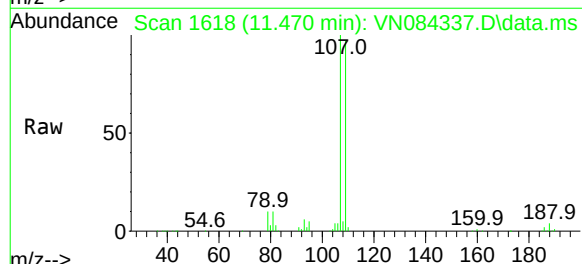
Acq: 08 Oct 2024 09:43

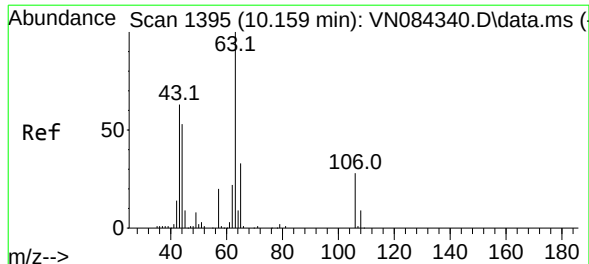
Tgt Ion:107 Resp: 336624

Ion Ratio Lower Upper

107 100

109 94.2 73.8 110.6





#55

2-Chloroethyl vinyl ether

Concen: 833.093 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 1333727

Ion Ratio Lower Upper

63 100

65 32.3 25.6 38.4

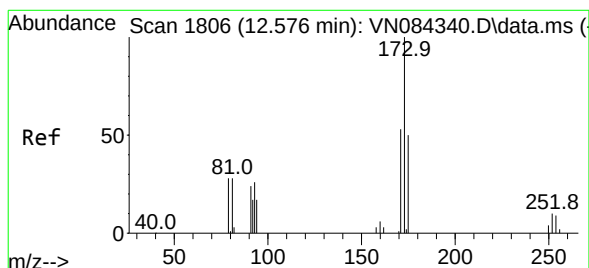
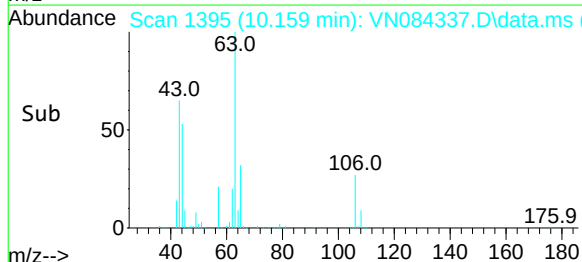
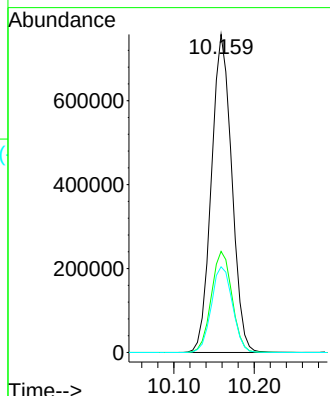
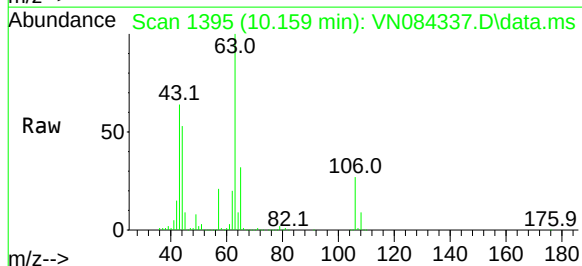
106 28.0 21.6 32.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#56

Bromoform

Concen: 160.094 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

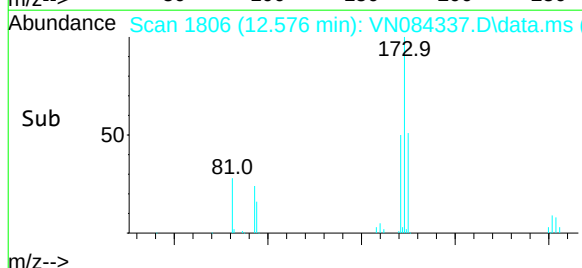
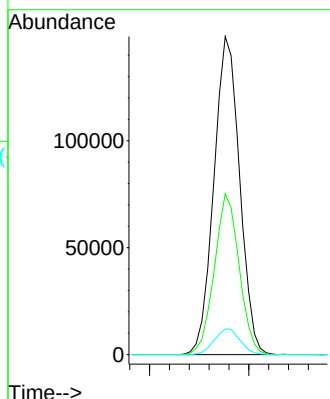
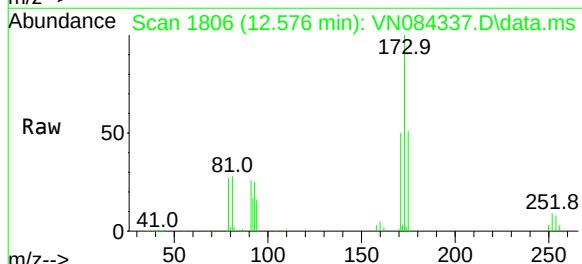
Tgt Ion:173 Resp: 268044

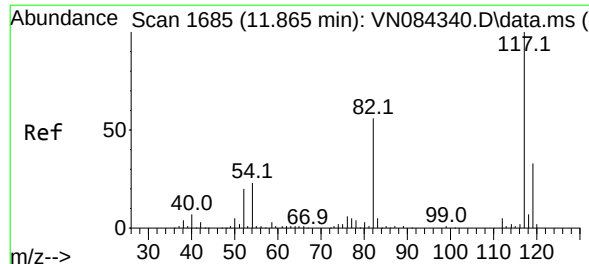
Ion Ratio Lower Upper

173 100

175 48.6 39.4 59.2

254 8.1 6.8 10.2





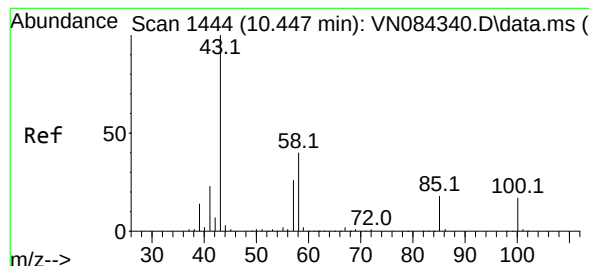
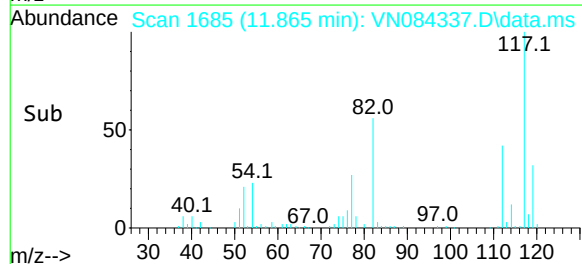
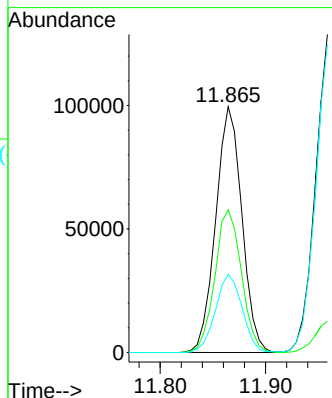
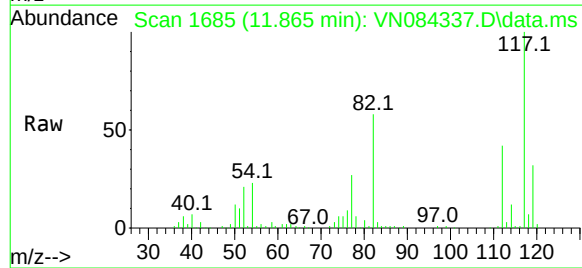
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 117 Resp: 171821
Ion Ratio Lower Upper
117 100
82 58.8 46.2 69.4
119 32.4 25.4 38.2

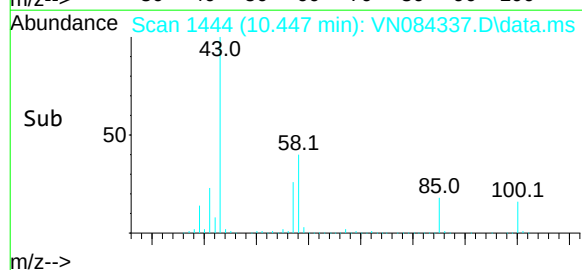
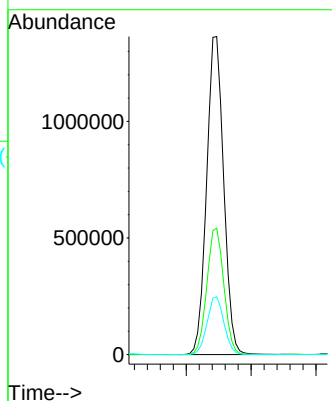
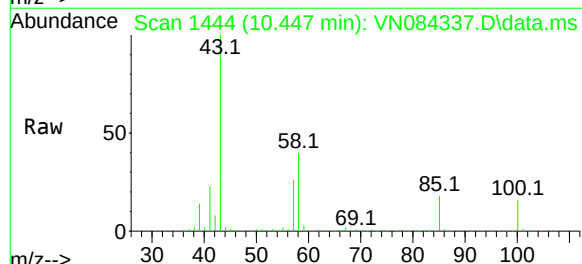
Manual Integrations
APPROVED

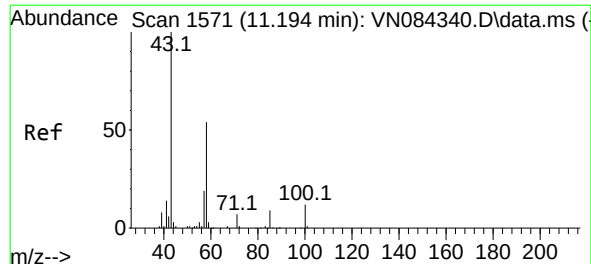
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#58
4-Methyl-2-Pentanone
Concen: 778.311 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

Tgt Ion: 43 Resp: 2491181
Ion Ratio Lower Upper
43 100
58 39.6 31.9 47.9
85 18.0 14.6 22.0





#59

2-Hexanone

Concen: 795.133 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 1891152

Ion Ratio Lower Upper

43 100

58 55.7 44.0 66.0

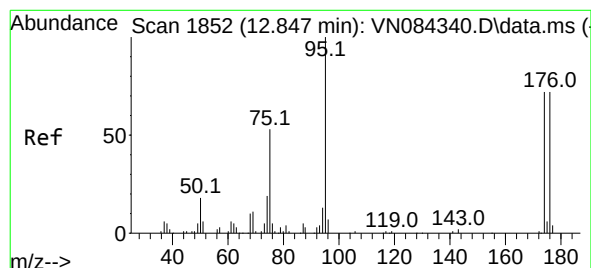
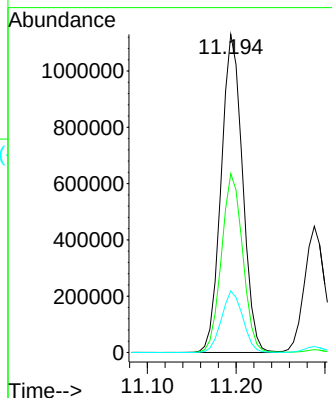
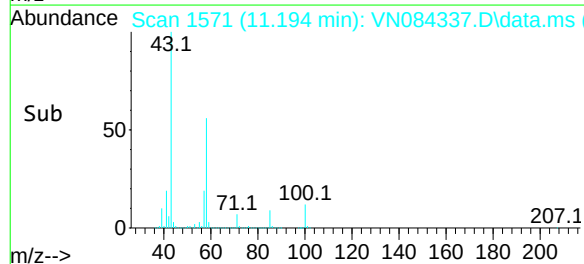
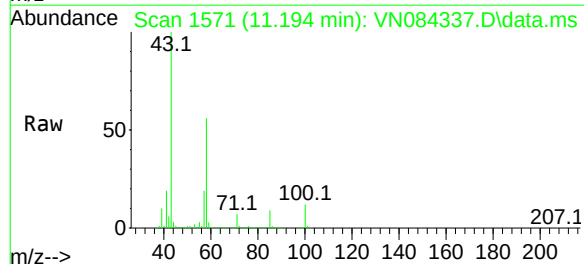
57 19.3 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#60

4-Bromofluorobenzene

Concen: 31.155 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

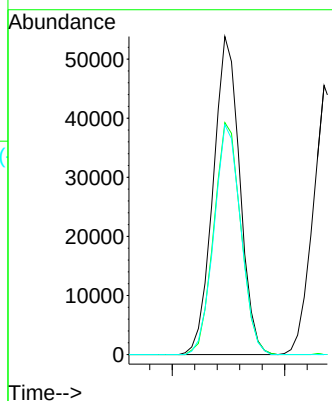
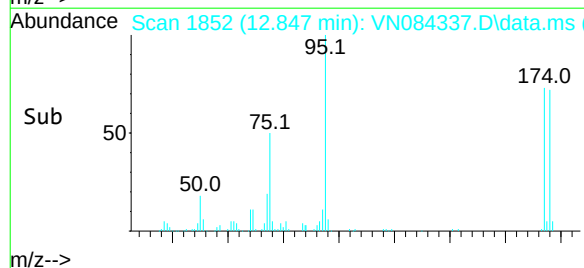
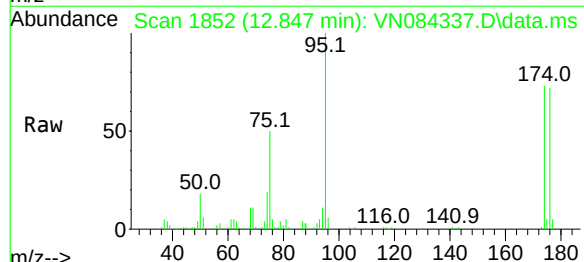
Tgt Ion: 95 Resp: 88349

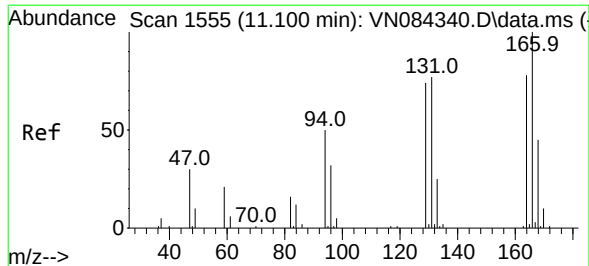
Ion Ratio Lower Upper

95 100

174 73.9 58.2 87.2

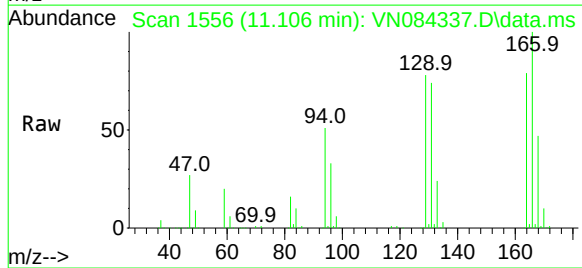
176 72.8 56.4 84.6





#61
Tetrachloroethene
Concen: 149.507 ug/l
RT: 11.106 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

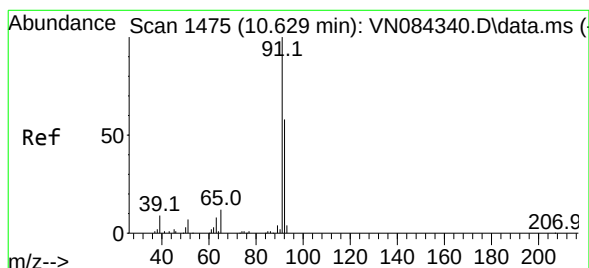
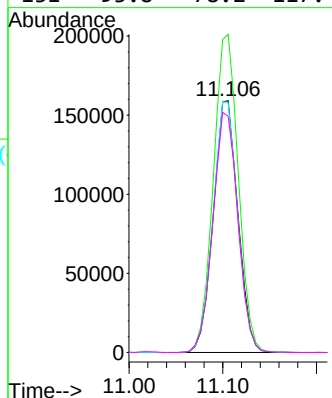
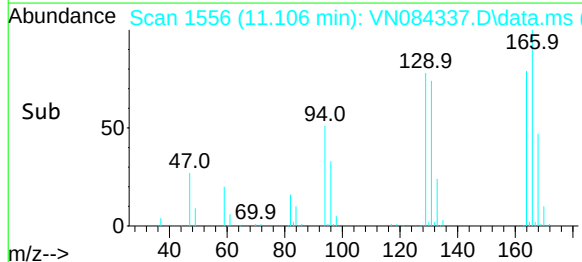
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 164 Resp: 290573
Ion Ratio Lower Upper
164 100
166 126.3 102.5 153.7
129 99.1 75.7 113.5
131 93.8 78.2 117.4

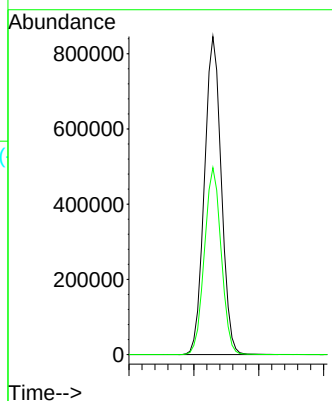
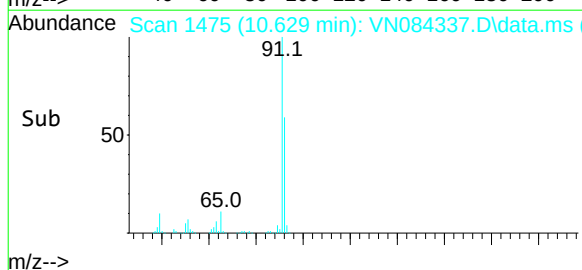
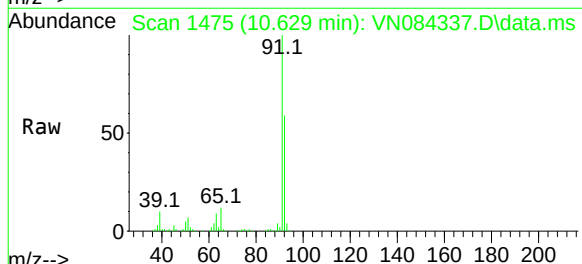
Manual Integrations
APPROVED

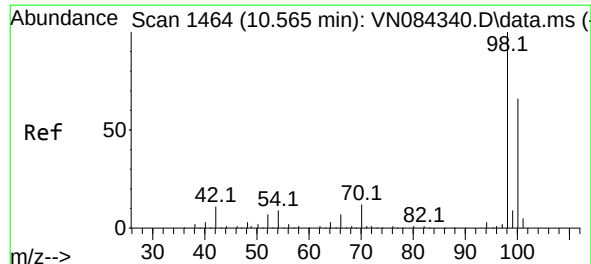
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#62
Toluene
Concen: 151.621 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084337.D
Acq: 08 Oct 2024 09:43

Tgt Ion: 91 Resp: 1525116
Ion Ratio Lower Upper
91 100
92 58.4 47.2 70.8





#63

Toluene-d8

Concen: 30.166 ug/l

RT: 10.565 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 98 Resp: 240116

Ion Ratio Lower Upper

98 100

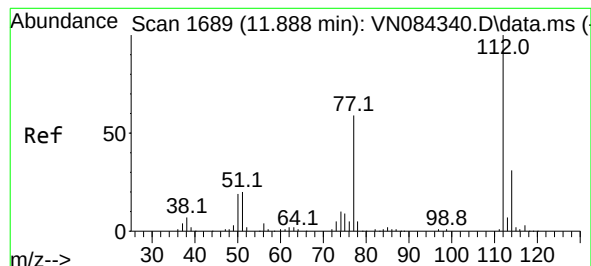
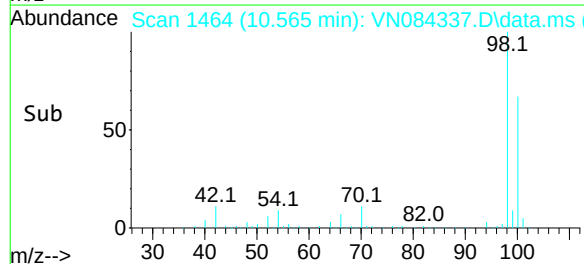
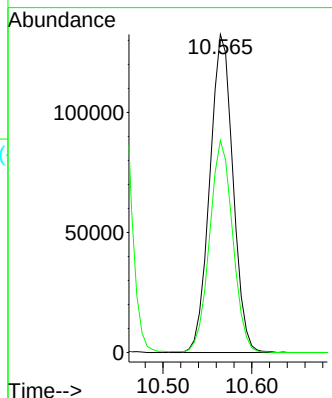
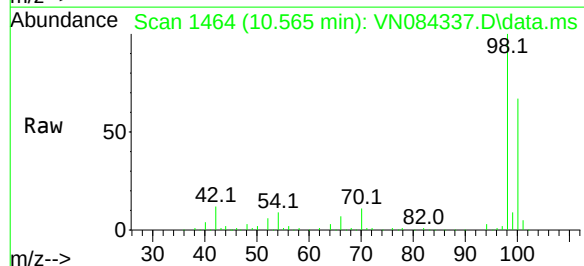
100 66.6 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#64

Chlorobenzene

Concen: 151.211 ug/l

RT: 11.894 min Scan# 1690

Delta R.T. 0.006 min

Lab File: VN084337.D

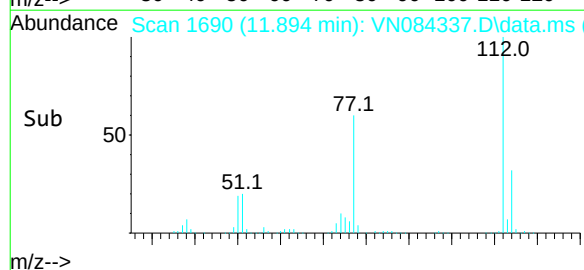
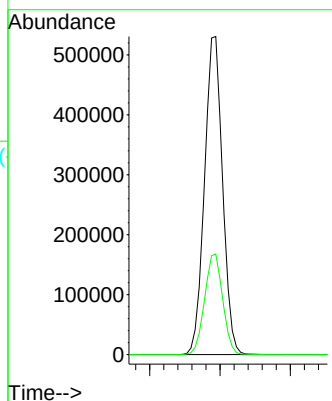
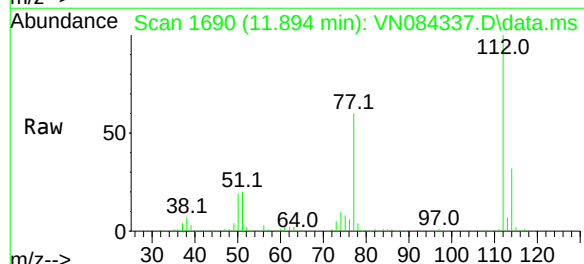
Acq: 08 Oct 2024 09:43

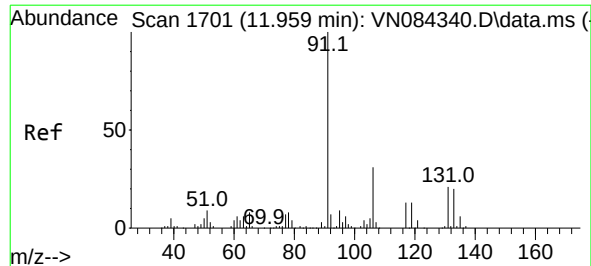
Tgt Ion:112 Resp: 946501

Ion Ratio Lower Upper

112 100

114 31.6 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 152.311 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

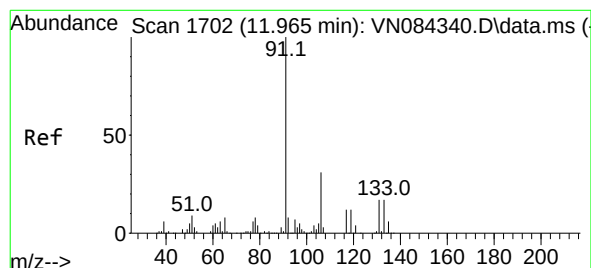
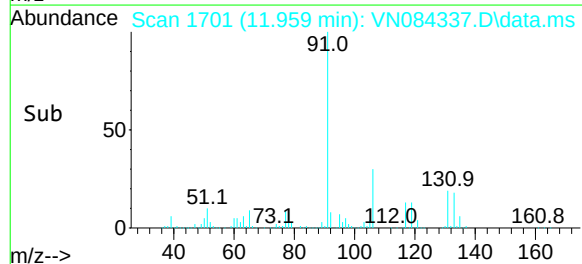
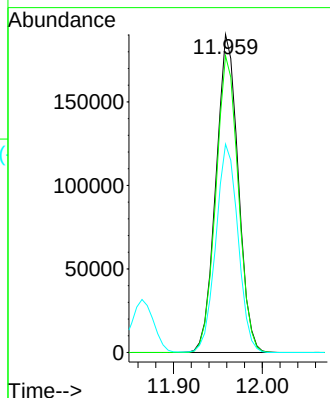
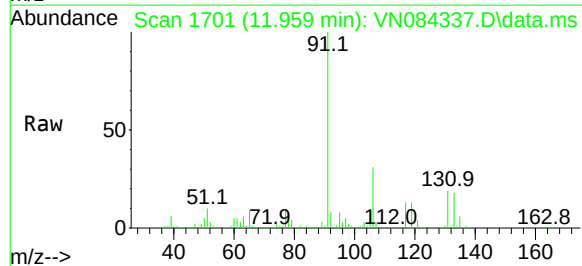
Tgt Ion:	131	Resp:	331211
Ion Ratio	Lower	Upper	
131	100		
133	94.0	0.0	190.4
119	65.5	0.0	130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#66

Ethyl Benzene

Concen: 160.094 ug/l

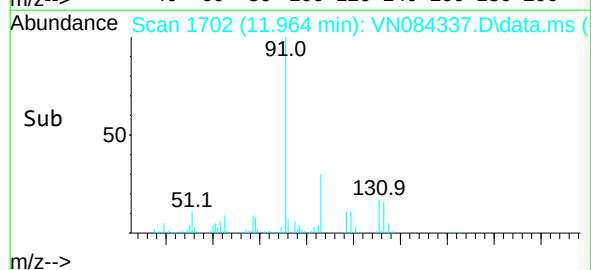
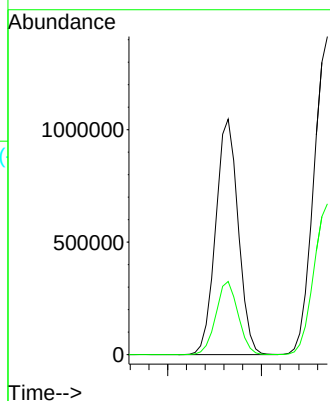
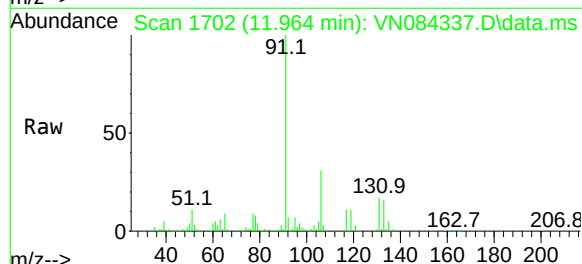
RT: 11.964 min Scan# 1702

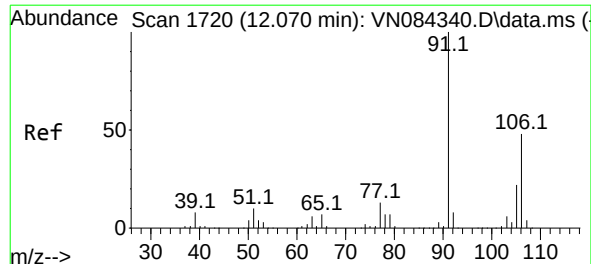
Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion:	91	Resp:	1749567
Ion Ratio	Lower	Upper	
91	100		
106	31.1	25.2	37.8





#67

m/p-Xylenes

Concen: 318.270 ug/l

RT: 12.070 min Scan# 17

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion:106 Resp: 1319448

Ion Ratio Lower Upper

106 100

91 209.0 166.7 250.1

Instrument :

MSVOA_N

ClientSampleId :

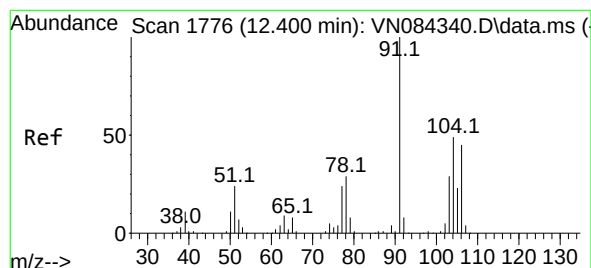
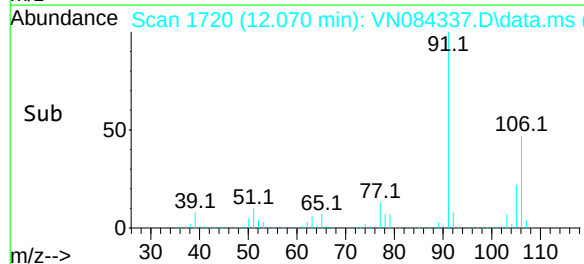
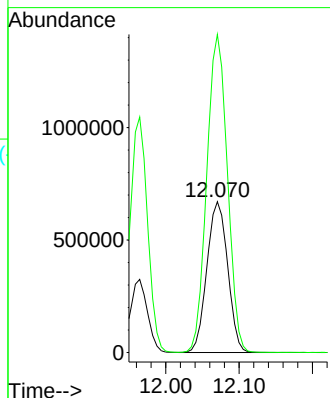
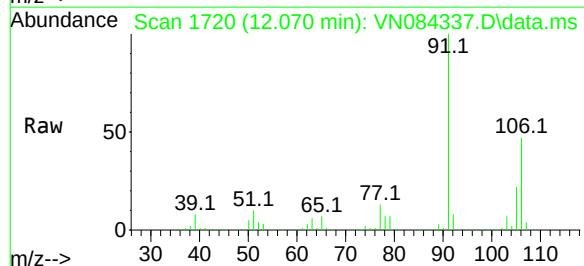
VSTDIC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#68

o-Xylene

Concen: 158.611 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.006 min

Lab File: VN084337.D

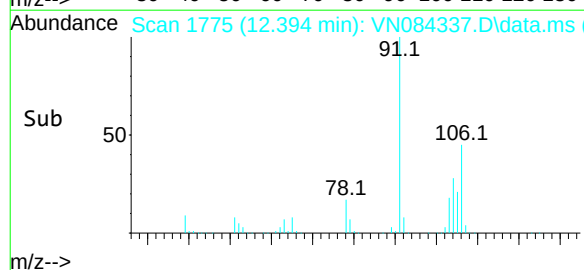
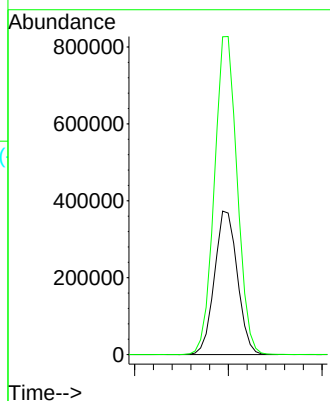
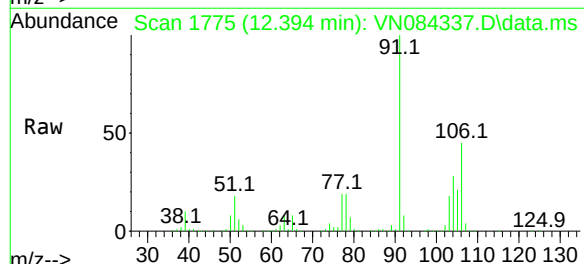
Acq: 08 Oct 2024 09:43

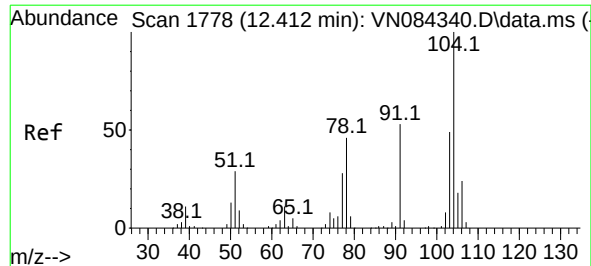
Tgt Ion:106 Resp: 633813

Ion Ratio Lower Upper

106 100

91 220.6 110.9 332.9





#69

Styrene

Concen: 161.432 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:104 Resp: 1107376

Ion Ratio Lower Upper

104 100

78 52.2 41.6 62.4

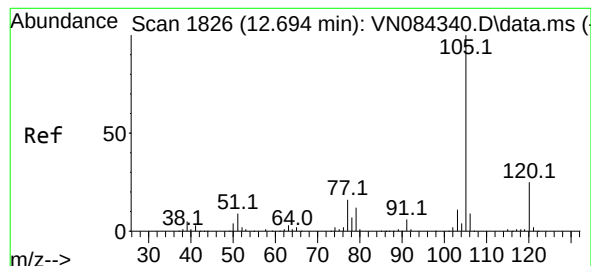
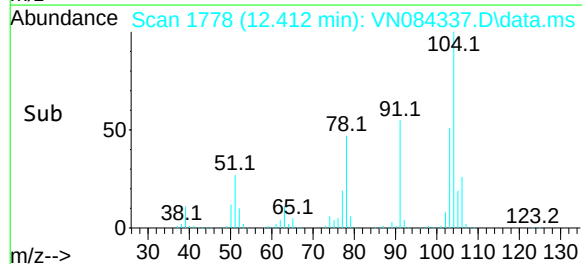
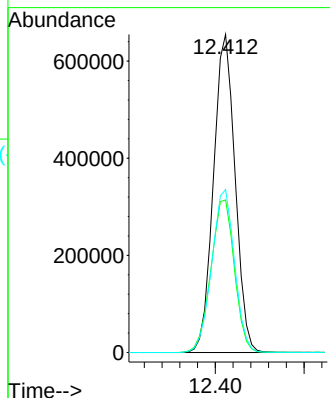
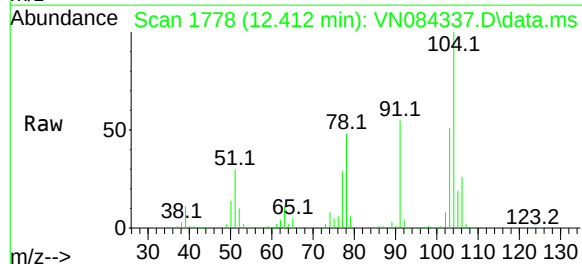
103 54.1 44.4 66.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#70

Isopropylbenzene

Concen: 159.320 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN084337.D

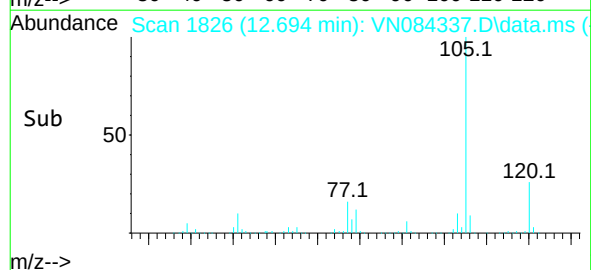
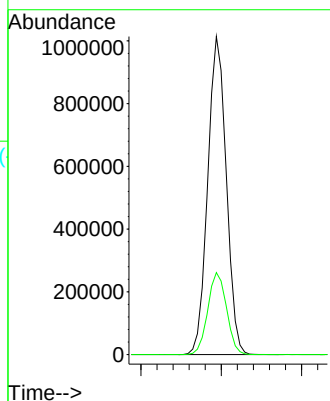
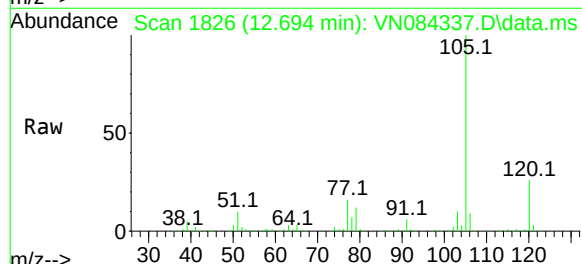
Acq: 08 Oct 2024 09:43

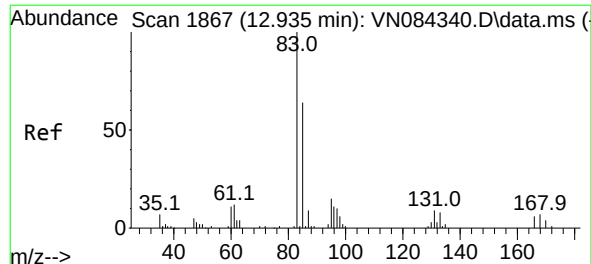
Tgt Ion:105 Resp: 1625283

Ion Ratio Lower Upper

105 100

120 26.0 17.4 32.4





#71

1,1,2,2-Tetrachloroethane

Concen: 153.053 ug/l

RT: 12.935 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

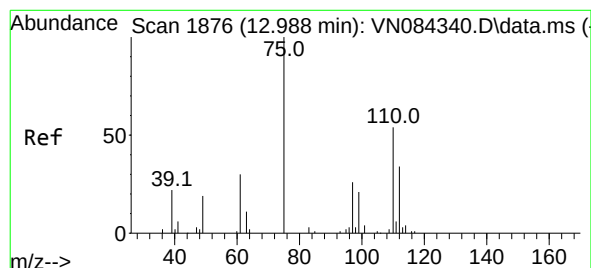
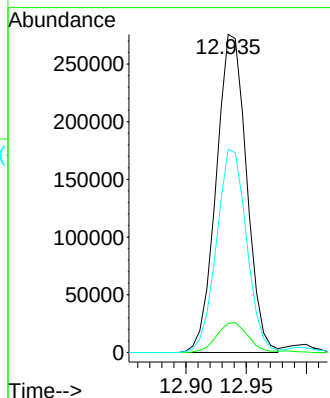
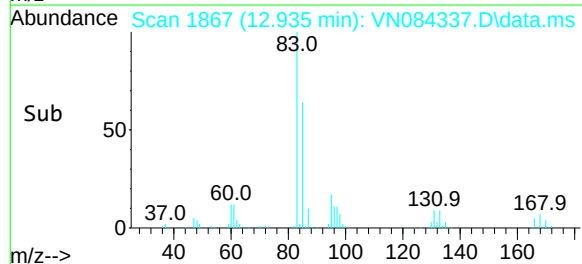
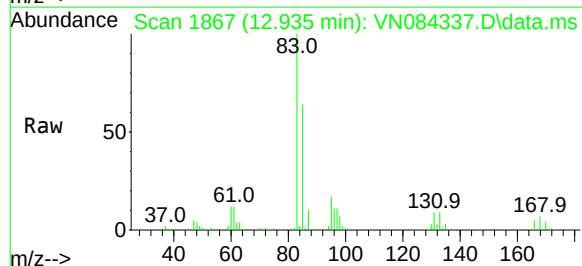
VSTDICC150

Tgt Ion:	83	Resp:	483003
Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.1	15.3
85	63.6	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#72

1,2,3-Trichloropropane

Concen: 156.469 ug/l m

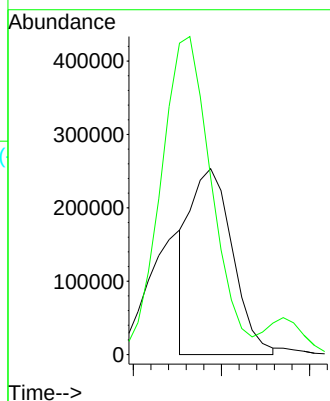
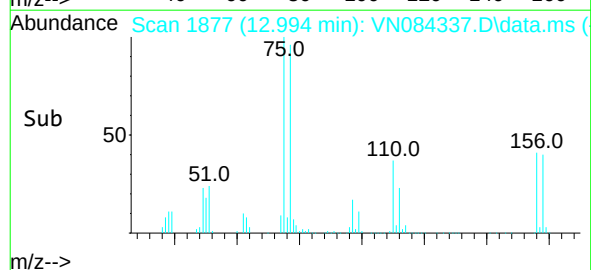
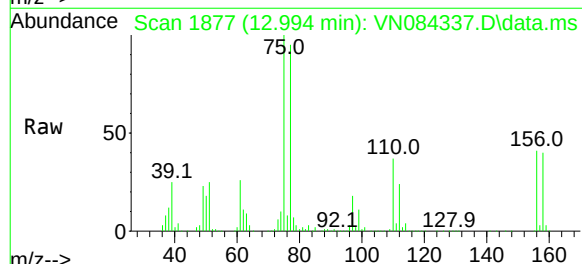
RT: 12.994 min Scan# 1877

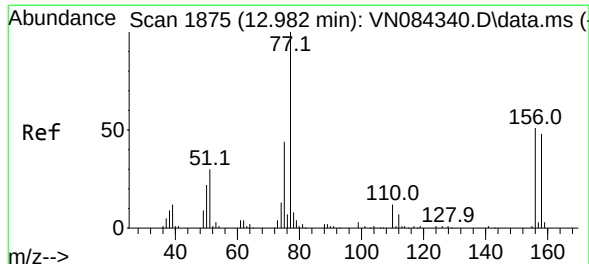
Delta R.T. 0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion:	75	Resp:	422311
Ion	Ratio	Lower	Upper
75	100		
77	205.2	0.0	414.0





#73

Bromobenzene

Concen: 155.148 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:156 Resp: 383306

Ion Ratio Lower Upper

156 100

77 226.0 0.0 451.0

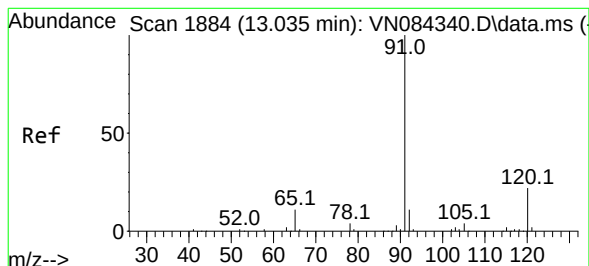
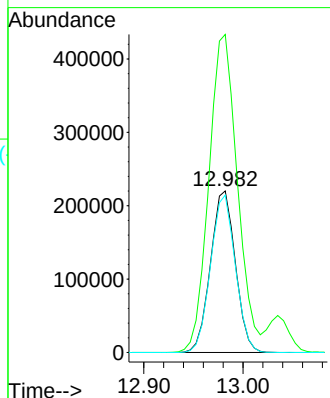
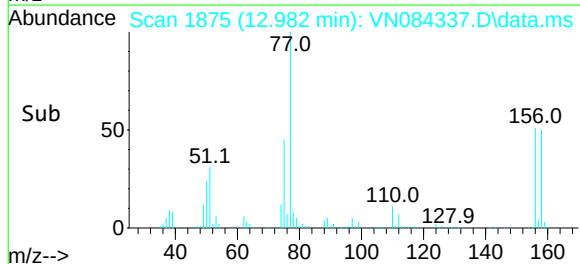
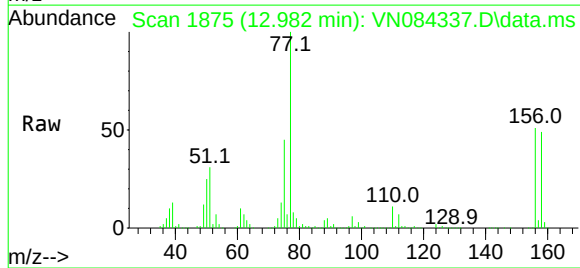
158 96.9 0.0 194.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#74

n-propylbenzene

Concen: 161.778 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN084337.D

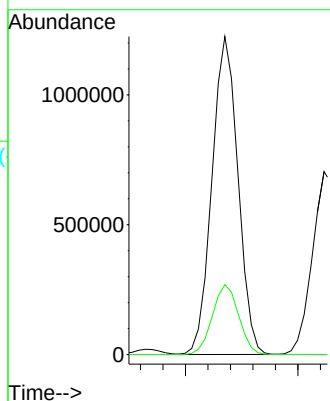
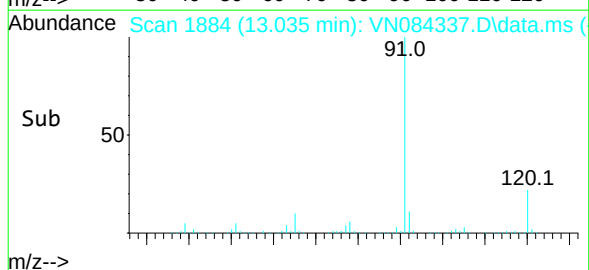
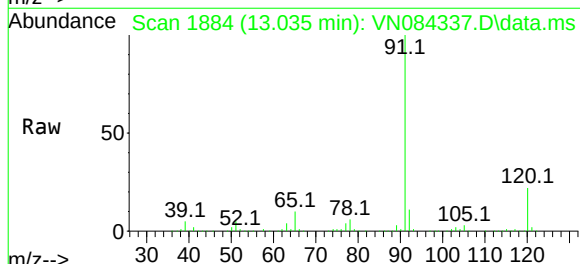
Acq: 08 Oct 2024 09:43

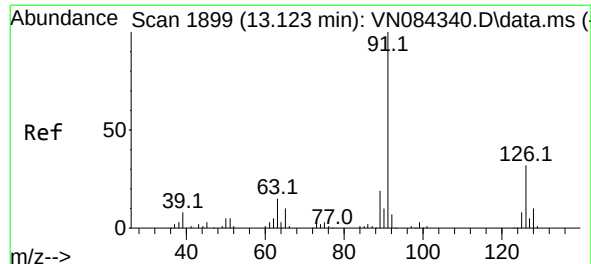
Tgt Ion: 91 Resp: 1966655

Ion Ratio Lower Upper

91 100

120 22.2 0.0 43.2





#75

2-Chlorotoluene

Concen: 158.816 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 1199693

Ion Ratio Lower Upper

91 100

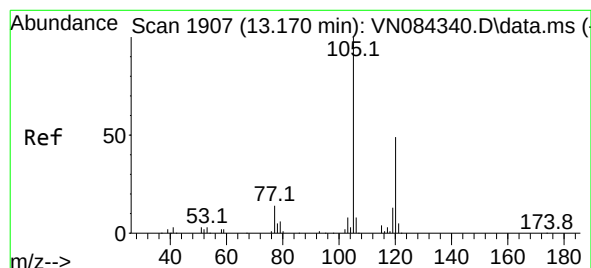
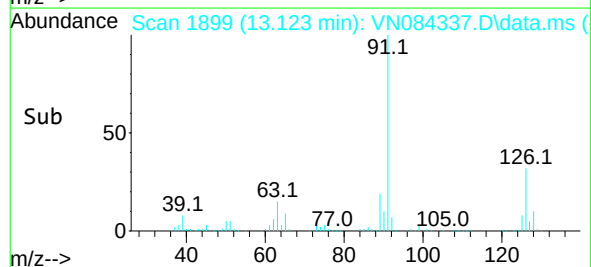
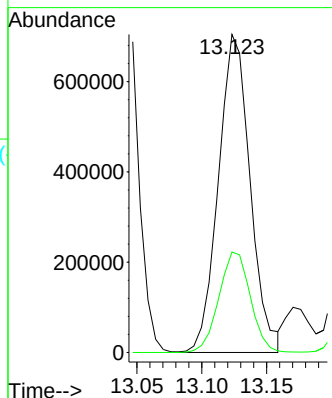
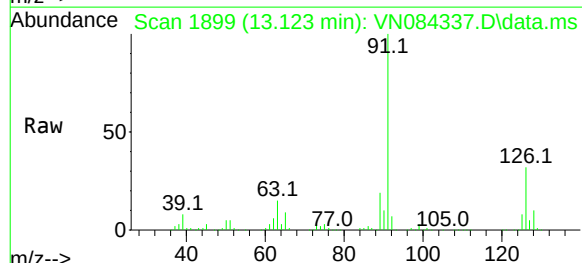
126 31.3 0.0 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#76

1,3,5-Trimethylbenzene

Concen: 161.447 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084337.D

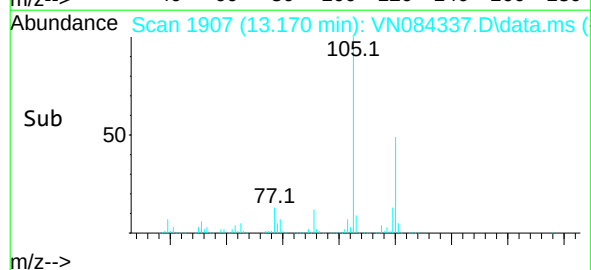
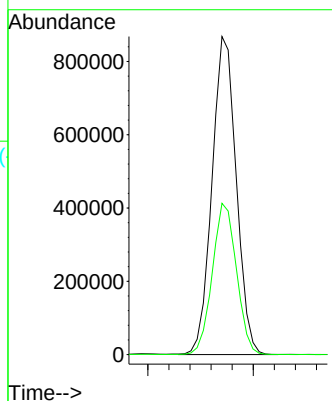
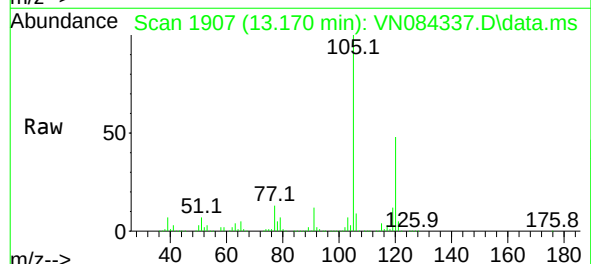
Acq: 08 Oct 2024 09:43

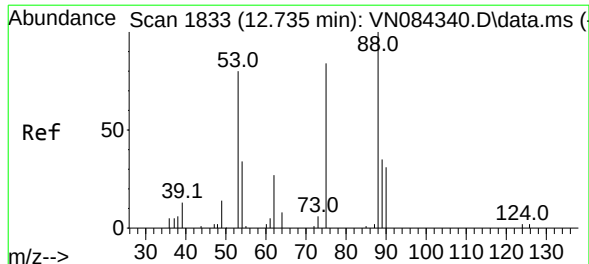
Tgt Ion:105 Resp: 1386742

Ion Ratio Lower Upper

105 100

120 47.5 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 167.468 ug/l

RT: 12.735 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN084337.D

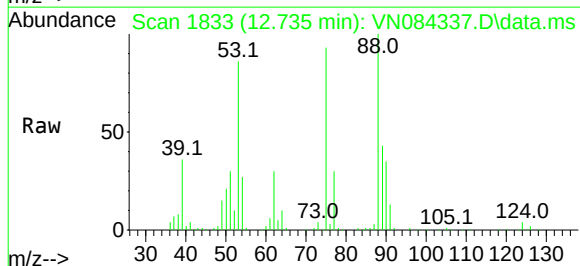
Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150



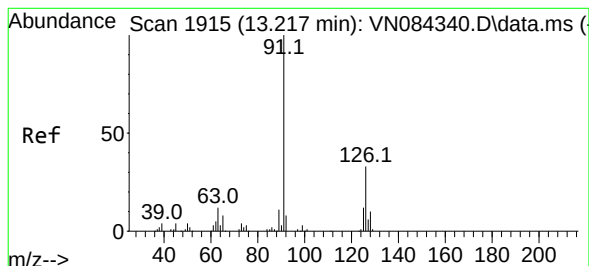
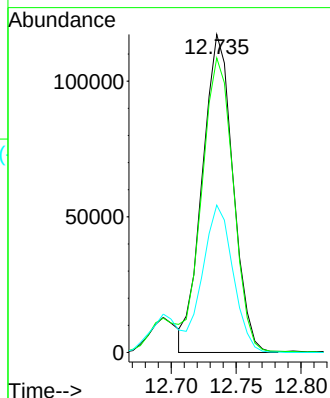
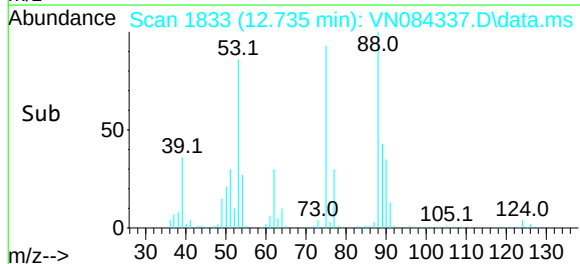
Tgt Ion:	75	Resp:	193413
Ion	Ratio	Lower	Upper
75	100		
53	92.6	47.3	142.0
89	46.4	22.9	68.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#78

4-Chlorotoluene

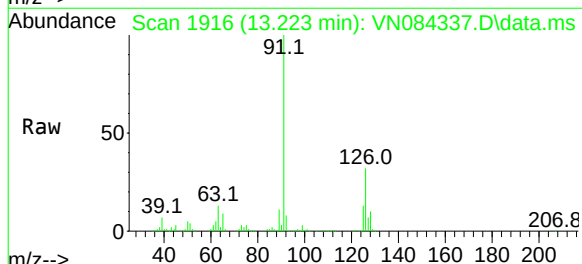
Concen: 159.769 ug/l

RT: 13.223 min Scan# 1916

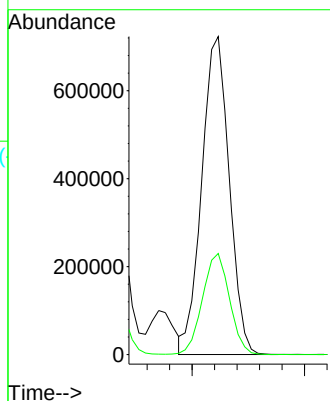
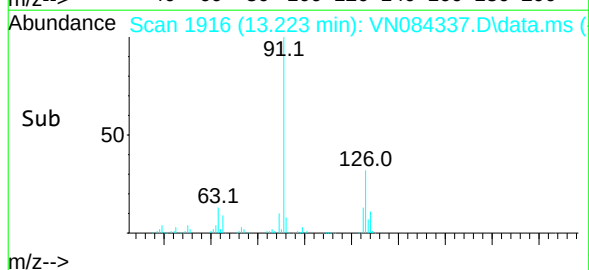
Delta R.T. 0.006 min

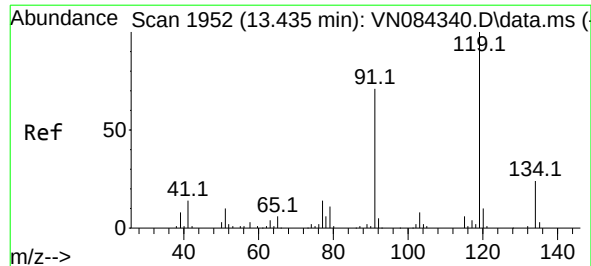
Lab File: VN084337.D

Acq: 08 Oct 2024 09:43



Tgt Ion:	91	Resp:	1227049
Ion	Ratio	Lower	Upper
91	100		
126	31.3	0.0	62.4





#79

tert-butylbenzene

Concen: 161.368 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:119 Resp: 1182498

Ion Ratio Lower Upper

119 100

91 67.9 0.0 138.0

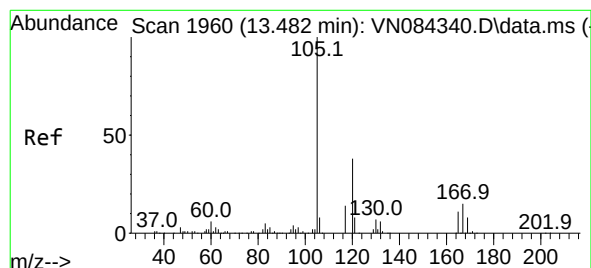
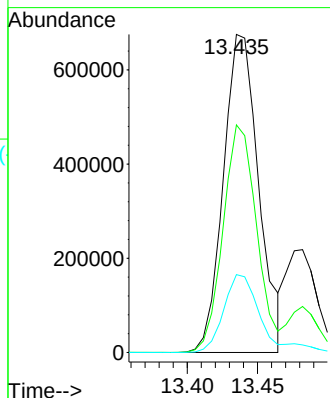
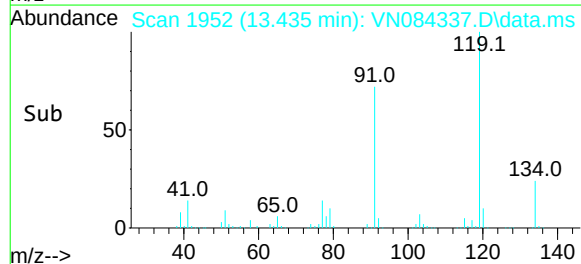
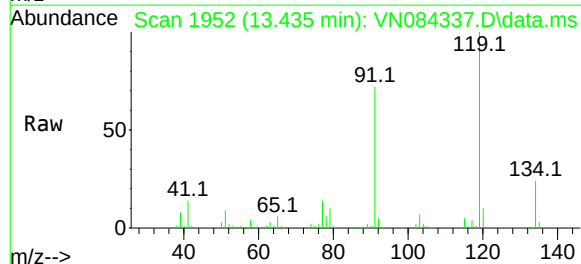
134 23.5 0.0 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#80

1,2,4-Trimethylbenzene

Concen: 161.849 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN084337.D

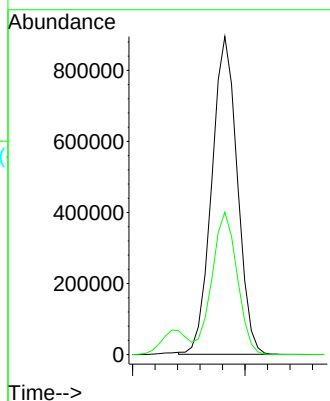
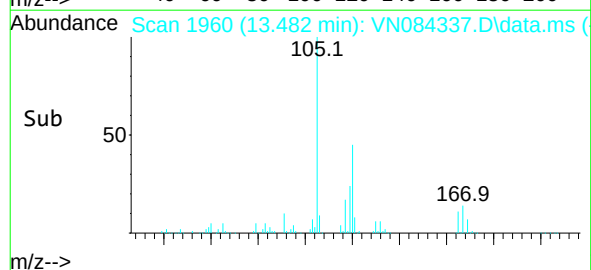
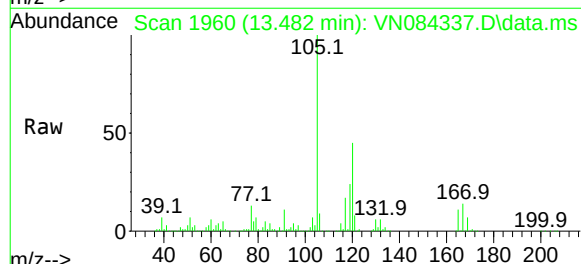
Acq: 08 Oct 2024 09:43

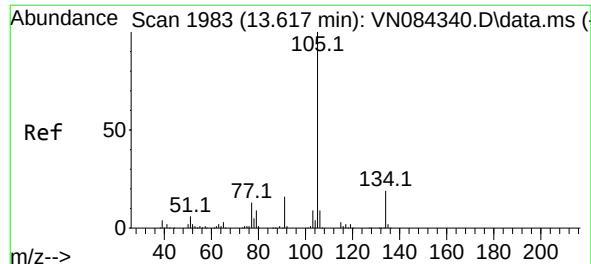
Tgt Ion:105 Resp: 1410559

Ion Ratio Lower Upper

105 100

120 44.4 0.0 88.8





#81

sec-Butylbenzene

Concen: 162.908 ug/l

RT: 13.617 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:105 Resp: 1643555

Ion Ratio Lower Upper

105 100

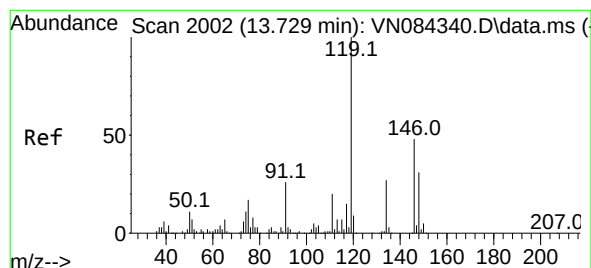
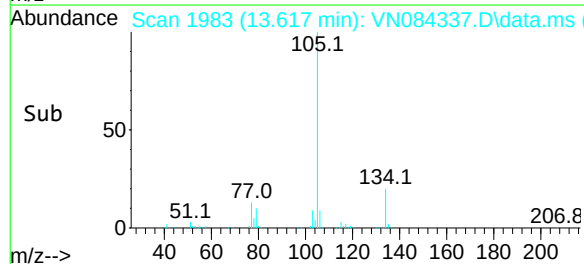
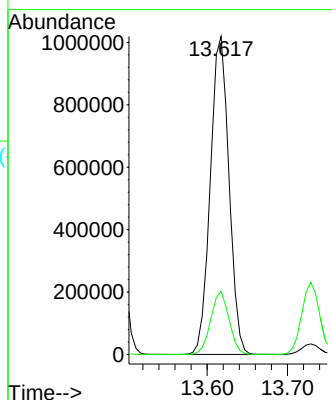
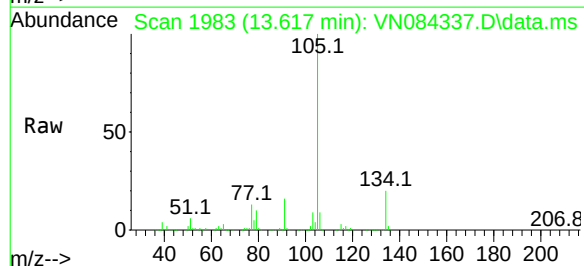
134 19.5 0.0 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#82

p-Isopropyltoluene

Concen: 165.992 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

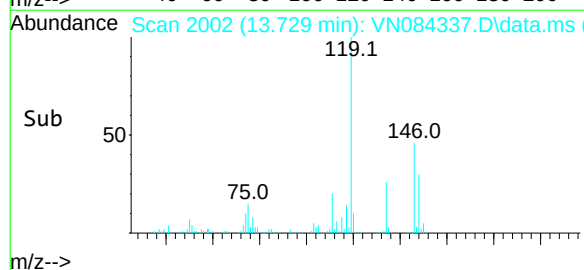
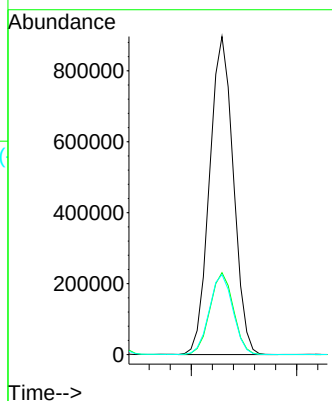
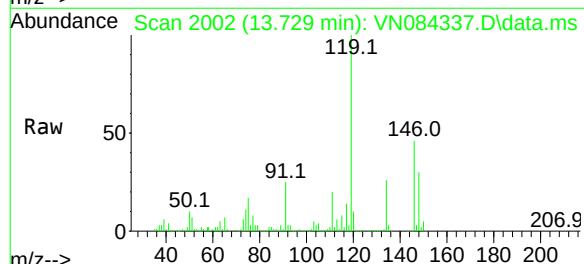
Tgt Ion:119 Resp: 1409541

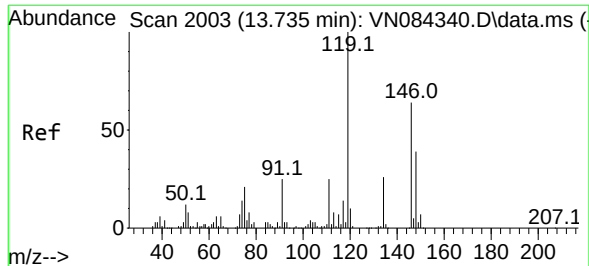
Ion Ratio Lower Upper

119 100

134 25.3 0.0 50.2

91 25.0 0.0 50.6





#83

1,3-Dichlorobenzene

Concen: 159.183 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:146 Resp: 731253

Ion Ratio Lower Upper

146 100

111 42.6 20.6 61.9

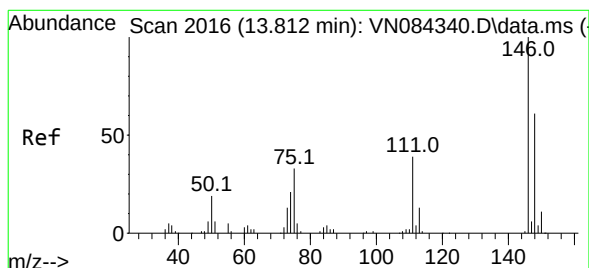
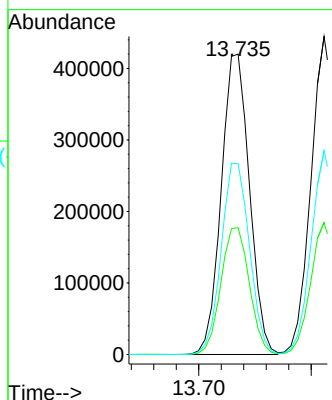
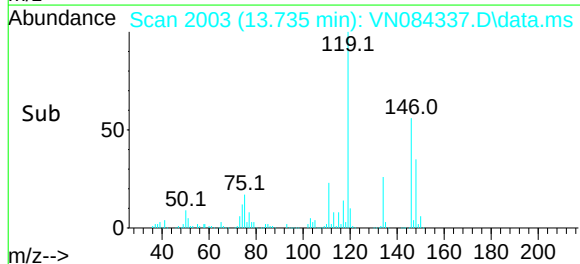
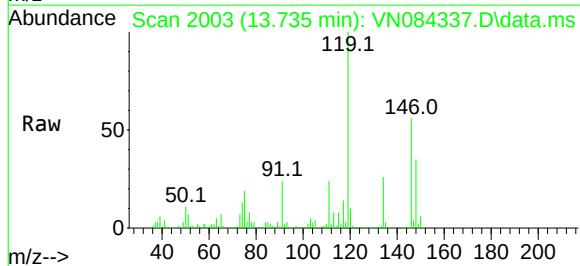
148 63.7 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#84

1,4-Dichlorobenzene

Concen: 158.652 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

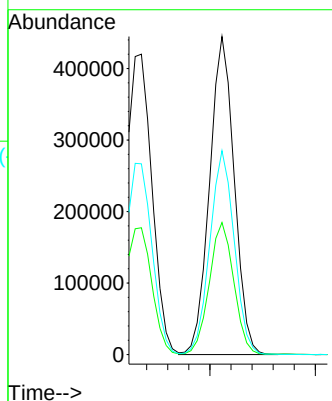
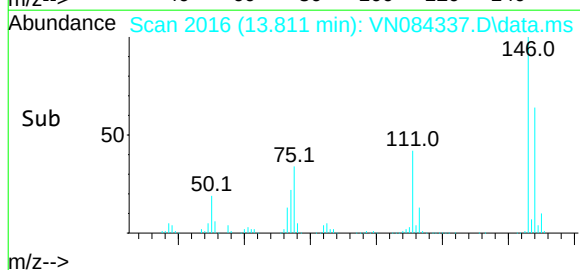
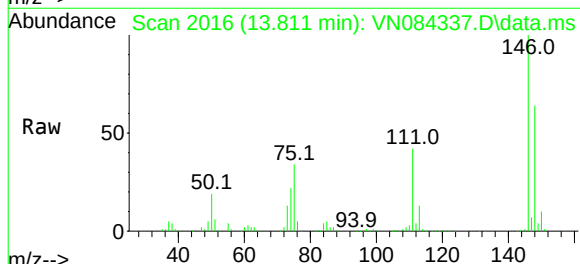
Tgt Ion:146 Resp: 723724

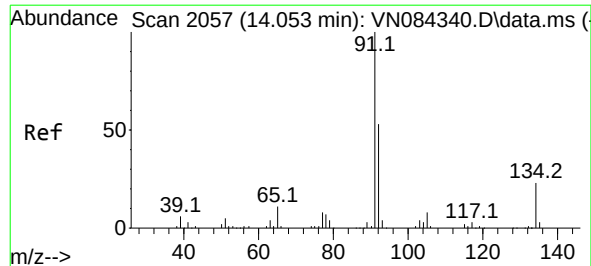
Ion Ratio Lower Upper

146 100

111 41.4 20.5 61.5

148 63.3 32.5 97.4





#85

n-Butylbenzene

Concen: 173.335 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 1274832

Ion Ratio Lower Upper

91 100

92 53.2 0.0 103.4

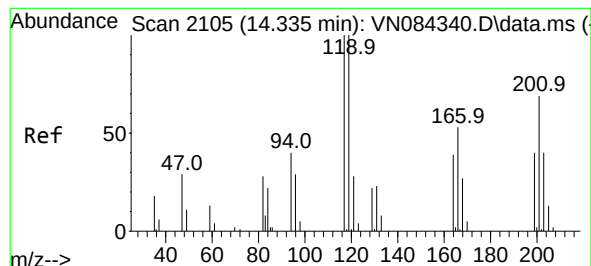
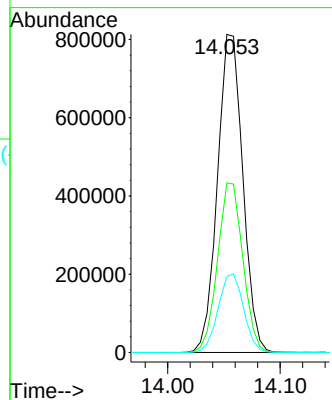
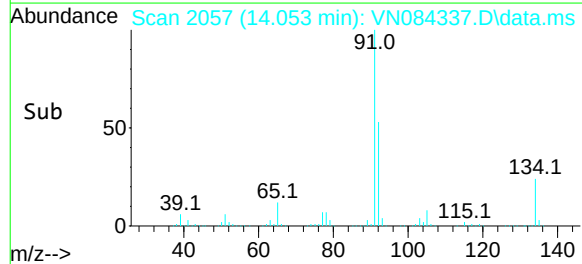
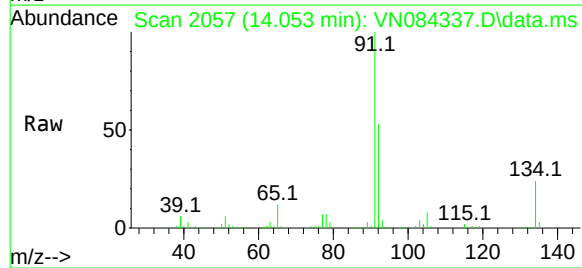
134 24.8 0.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#86

Hexachloroethane

Concen: 158.553 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. -0.000 min

Lab File: VN084337.D

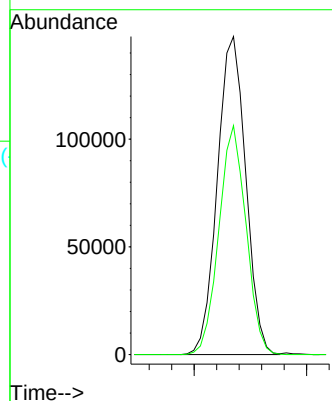
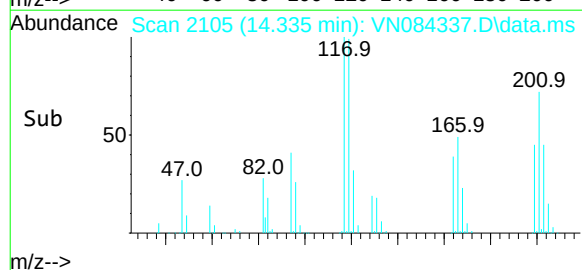
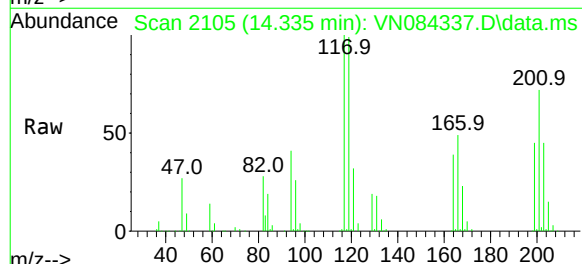
Acq: 08 Oct 2024 09:43

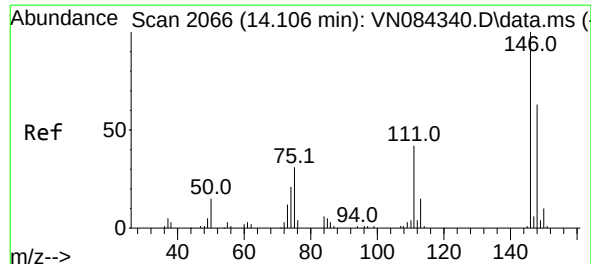
Tgt Ion:117 Resp: 259393

Ion Ratio Lower Upper

117 100

201 68.7 33.9 101.6





#87

1,2-Dichlorobenzene

Concen: 156.847 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

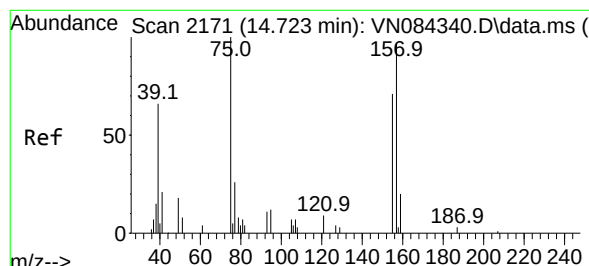
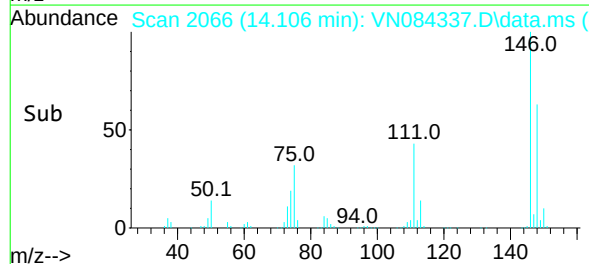
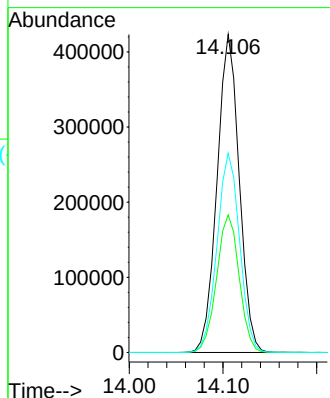
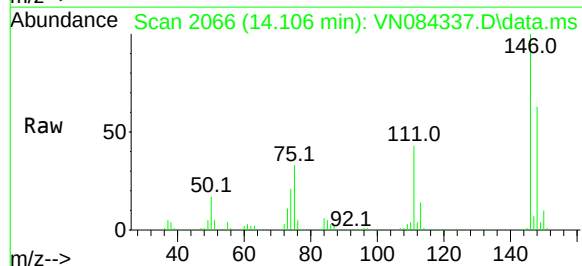
Tgt Ion:	146	Resp:	696639
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.9	65.5
148	63.8	31.1	93.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 159.510 ug/l

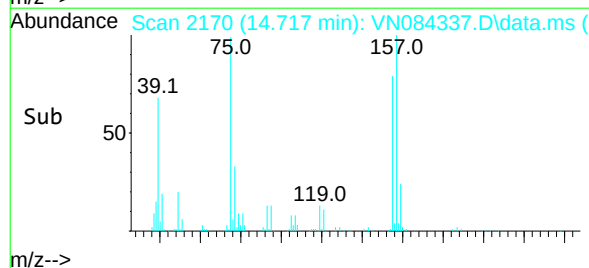
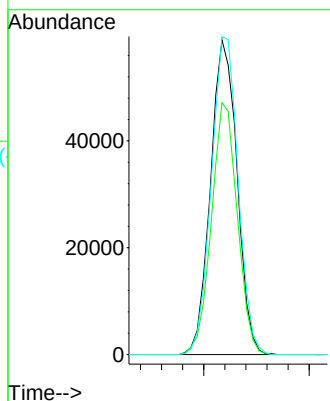
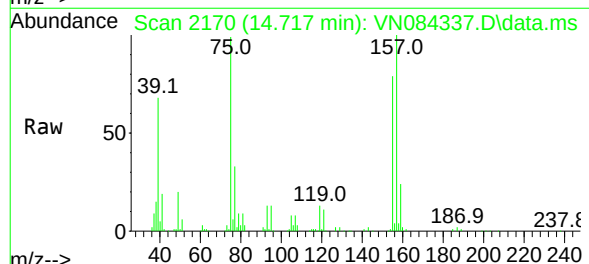
RT: 14.717 min Scan# 2170

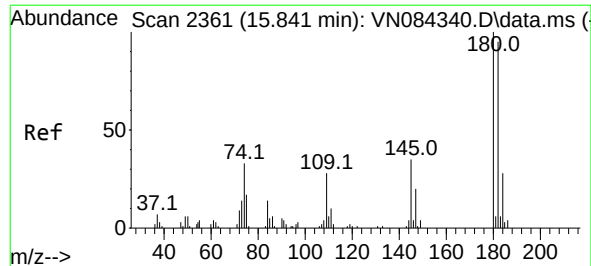
Delta R.T. -0.006 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Tgt Ion:	75	Resp:	102940
Ion	Ratio	Lower	Upper
75	100		
155	78.1	61.8	92.8
157	101.7	77.4	116.0





#89

1,2,4-Trichlorobenzene

Concen: 162.329 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:180 Resp: 374861

Ion Ratio Lower Upper

180 100

182 95.8 77.8 116.6

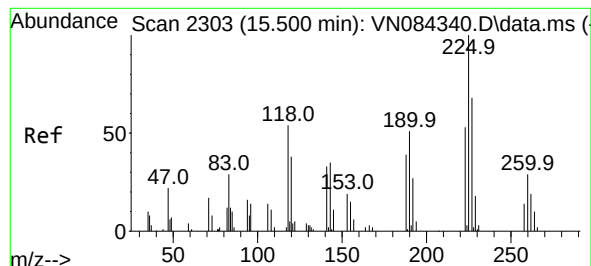
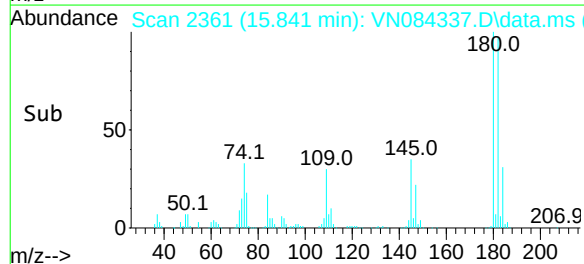
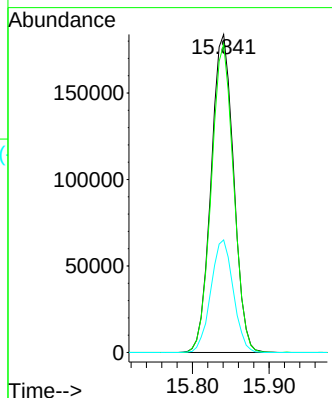
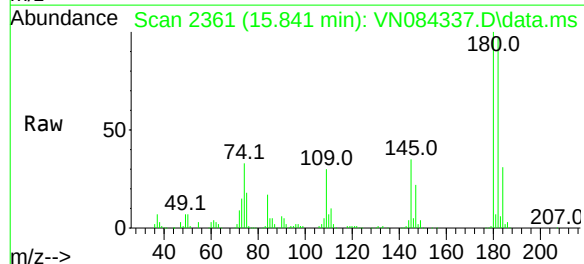
145 35.2 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#90

Hexachlorobutadiene

Concen: 147.184 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

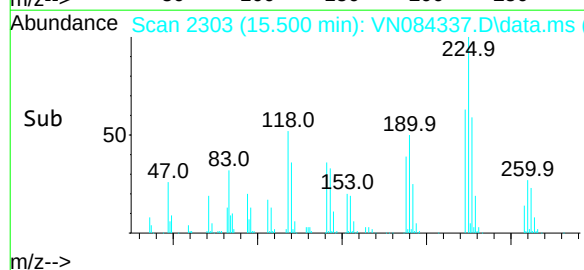
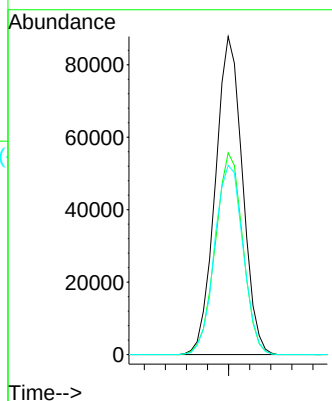
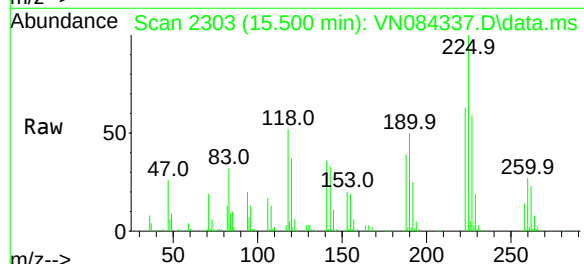
Tgt Ion:225 Resp: 157242

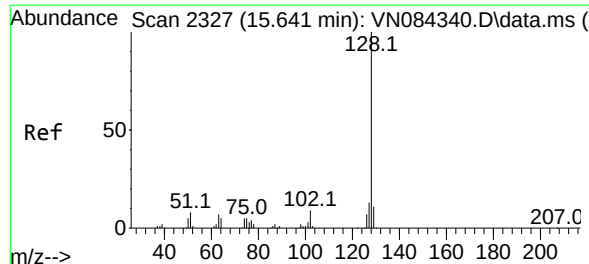
Ion Ratio Lower Upper

225 100

223 64.0 0.0 124.0

227 62.5 0.0 130.8





#91

Naphthalene

Concen: 170.565 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 1334733

Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

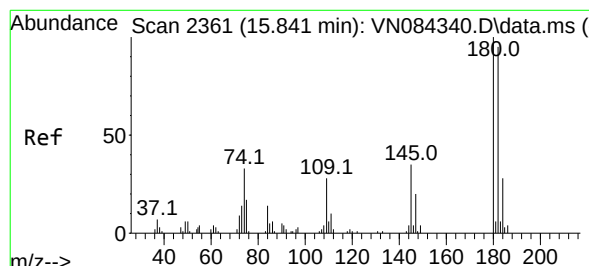
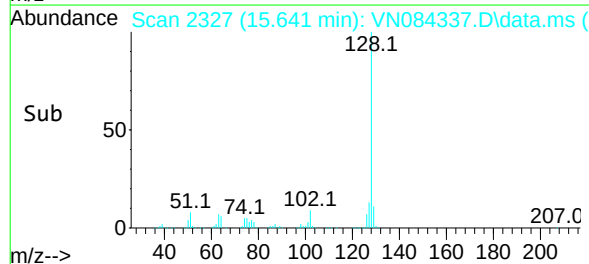
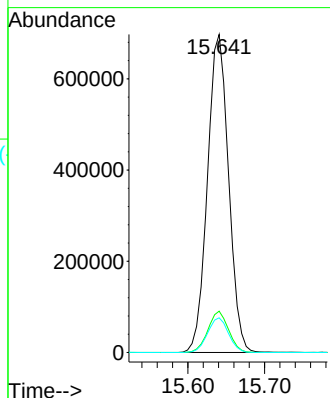
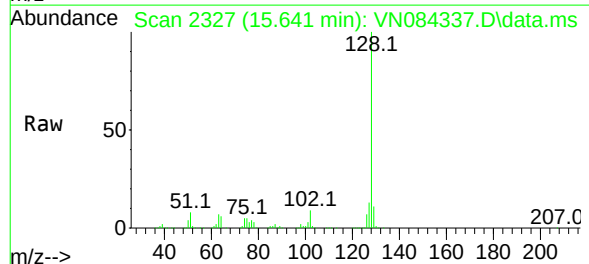
129 10.8 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 162.329 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VN084337.D

Acq: 08 Oct 2024 09:43

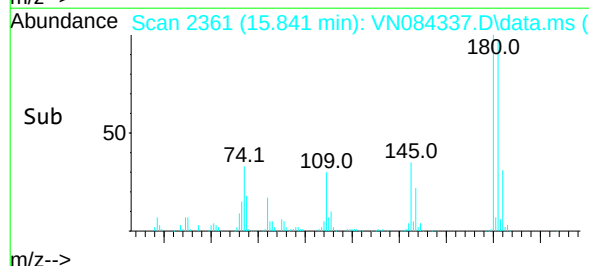
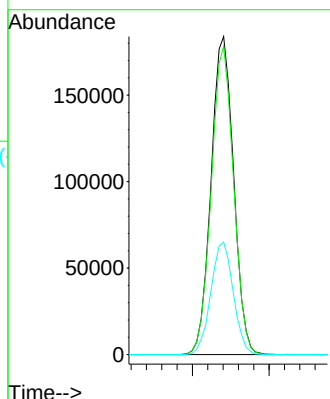
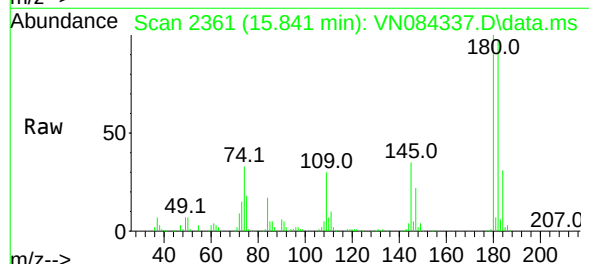
Tgt Ion:180 Resp: 374861

Ion Ratio Lower Upper

180 100

182 95.8 0.0 194.4

145 35.2 0.0 72.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084338.D
 Acq On : 08 Oct 2024 10:07
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:06:44 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Oct 09 02:04:33 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	35068	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	190456	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	179975	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	84835	30.048	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.167%			
60) 4-Bromofluorobenzene	12.847	95	91083	30.664	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.200%			
63) Toluene-d8	10.565	98	247263	29.656	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.867%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	205380	95.924	ug/l	97
3) Chloromethane	2.359	50	238067	97.710	ug/l	99
4) Vinyl Chloride	2.512	62	232167	97.168	ug/l	98
5) Bromomethane	2.930	94	144198	91.091	ug/l	97
6) Chloroethane	3.106	64	140802	89.888	ug/l	97
7) Trichlorofluoromethane	3.489	101	379462	97.500	ug/l	92
8) Diethyl Ether	3.959	74	141064	98.586	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	213828	97.714	ug/l	99
10) 1,1-Dichloroethene	4.336	96	214197	98.097	ug/l	93
11) Methyl Iodide	4.583	142	286385	99.804	ug/l	99
12) Methyl Acetate	5.024	43	276654	101.206	ug/l	100
13) Acrolein	4.177	56	263202	518.323	ug/l	99
14) Acrylonitrile	5.712	53	599763	488.367	ug/l	98
15) Acetone	4.424	58	184044	524.611	ug/l	93
16) Carbon Disulfide	4.706	76	615999	94.737	ug/l	100
17) Allyl chloride	5.018	41	352646	99.630	ug/l	93
18) Methylene Chloride	5.271	84	235470	95.730	ug/l	96
19) trans-1,2-Dichloroethene	5.783	96	224774	97.266	ug/l	93
20) Diisopropyl ether	6.671	45	758291	99.640	ug/l	97
21) 1,1-Dichloroethane	6.565	63	420888	96.384	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	261797	97.356	ug/l	98
23) tert-Butyl Alcohol	5.524	59	237527	504.229	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	732699	100.410	ug/l #	85
25) Chloroform	7.965	83	426680	96.476	ug/l	99
26) Cyclohexane	8.253	56	363184	99.442	ug/l #	94
29) 1,1-Dichloropropene	8.371	75	312760	100.036	ug/l	99
30) 2-Butanone	7.483	43	852543	512.158	ug/l	99
31) 2,2-Dichloropropane	7.489	77	370236	100.772	ug/l #	80
32) 1,1,1-Trichloroethane	8.165	97	399456	99.955	ug/l	99
33) Carbon Tetrachloride	8.359	117	347588	100.397	ug/l	97
34) Benzene	8.606	78	960915	98.185	ug/l	97
35) Methacrylonitrile	7.777	41	188397	106.088	ug/l	97
36) 1,2-Dichloroethane	8.671	62	320751	98.324	ug/l	100
37) Trichloroethene	9.353	130	224110	99.445	ug/l	93
38) Methylcyclohexane	9.600	83	359108	104.567	ug/l	99
39) 1,2-Dichloropropane	9.618	63	235798	98.802	ug/l	98
40) Dibromomethane	9.706	93	163396	97.960	ug/l	98
41) Bromodichloromethane	9.888	83	350730	99.048	ug/l	92
42) Vinyl Acetate	6.600	43	2998867	517.998	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084338.D
 Acq On : 08 Oct 2024 10:07
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:06:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	337577	102.827	ug/l	97
44) Isopropyl Acetate	8.688	43	553772	103.059	ug/l	99
45) 1,4-Dioxane	9.694	88	102529	2116.681	ug/l	95
46) Methyl methacrylate	9.677	41	266510	102.653	ug/l	99
47) n-amyl Acetate	12.494	43	505509	105.767	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	368556	100.723	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	391167	102.004	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	221414	98.758	ug/l	98
51) Ethyl methacrylate	10.871	69	391063	105.601	ug/l	92
52) 1,3-Dichloropropane	11.159	76	387077	98.740	ug/l	100
53) Dibromochloromethane	11.359	129	264647	99.925	ug/l	99
54) 1,2-Dibromoethane	11.465	107	230529	99.892	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	906371	539.636	ug/l	99
56) Bromoform	12.576	173	181985	103.603	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	1693999	505.272	ug/l	100
59) 2-Hexanone	11.194	43	1283238	515.092	ug/l	99
61) Tetrachloroethene	11.100	164	196676	96.610	ug/l	96
62) Toluene	10.629	91	1038960	98.609	ug/l	99
64) Chlorobenzene	11.888	112	641078	97.777	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	224096	98.384	ug/l	99
66) Ethyl Benzene	11.965	91	1181271	103.195	ug/l	100
67) m/p-Xylenes	12.071	106	878405	202.285	ug/l	99
68) o-Xylene	12.400	106	426068	101.792	ug/l	99
69) Styrene	12.412	104	739030	102.854	ug/l	99
70) Isopropylbenzene	12.694	105	1096352	102.602	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	326404	98.744	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	282274m	99.846	ug/l	
73) Bromobenzene	12.976	156	258761	99.991	ug/l	99
74) n-propylbenzene	13.035	91	1306104	102.573	ug/l	99
75) 2-Chlorotoluene	13.123	91	797168	100.748	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	925442	102.861	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	128080	105.874	ug/l	99
78) 4-Chlorotoluene	13.218	91	811956	100.932	ug/l	99
79) tert-butylbenzene	13.435	119	797890	103.950	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	940023	102.973	ug/l	99
81) sec-Butylbenzene	13.618	105	1098551	103.955	ug/l	99
82) p-Isopropyltoluene	13.729	119	929312	104.480	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	486367	101.078	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	482980	101.080	ug/l	99
85) n-Butylbenzene	14.053	91	822416	106.755	ug/l	97
86) Hexachloroethane	14.335	117	173285	101.121	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	469667	100.954	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	69709	103.123	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	249678	103.221	ug/l	96
90) Hexachlorobutadiene	15.500	225	106287	94.981	ug/l	98
91) Naphthalene	15.641	128	888428	108.388	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	249678	103.221	ug/l	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
Data File : VN084338.D
Acq On : 08 Oct 2024 10:07
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

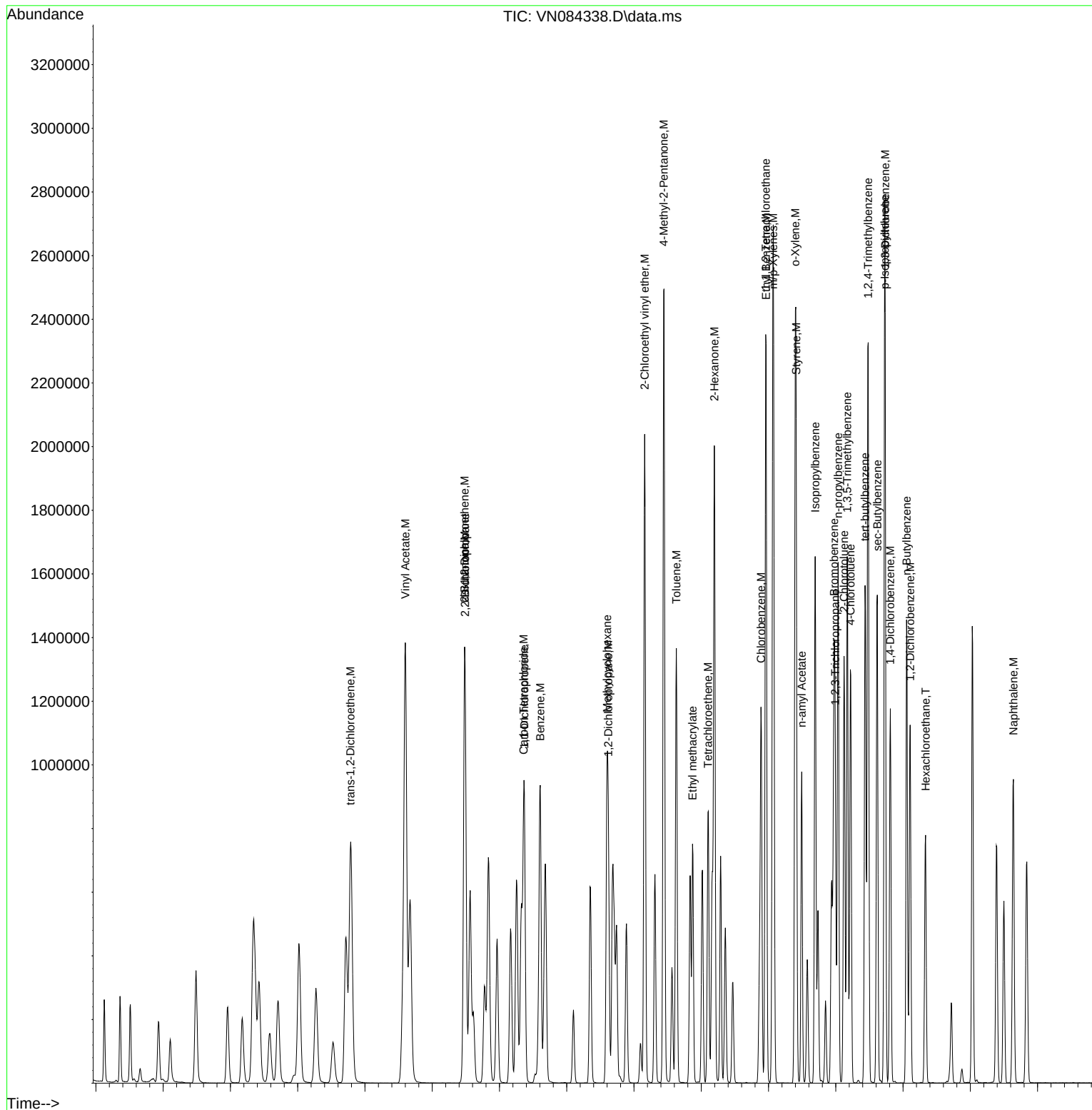
Manual Integrations

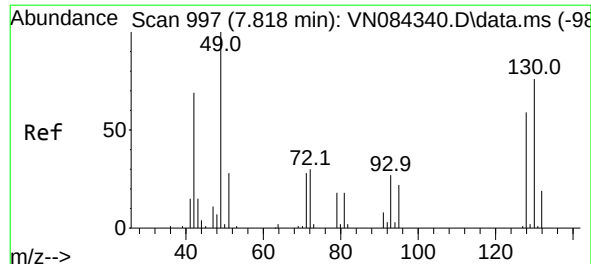
APPROVED

Reviewed By : John Carlone 10/09/2024

Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:06:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:04:33 2024
Response via : Initial Calibration





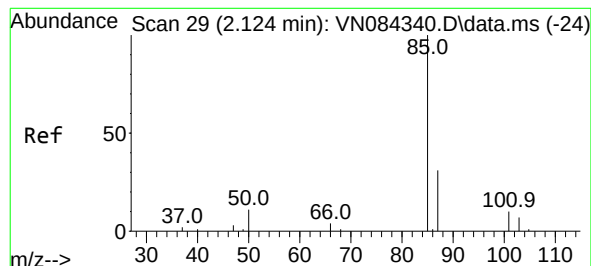
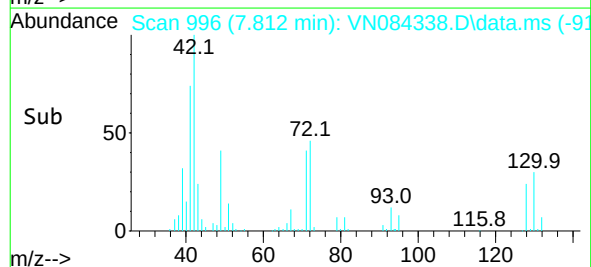
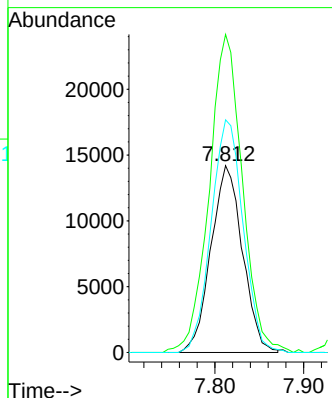
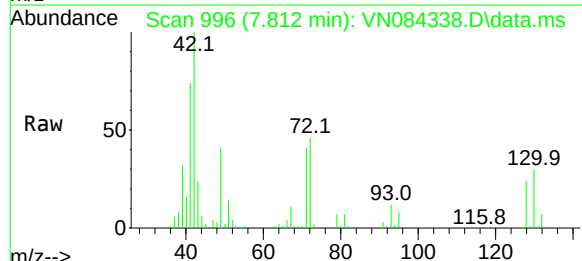
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 35068
Ion Ratio Lower Upper
128 100
49 178.6 0.0 430.0
130 126.3 0.0 329.8

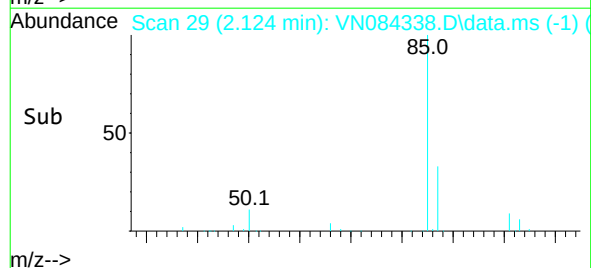
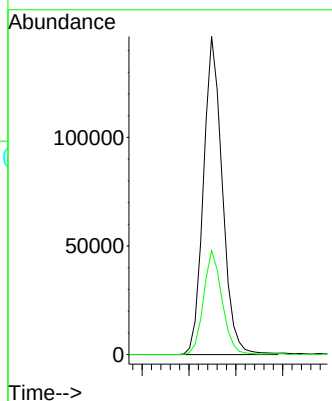
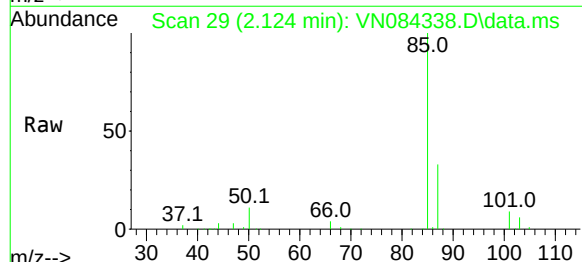
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

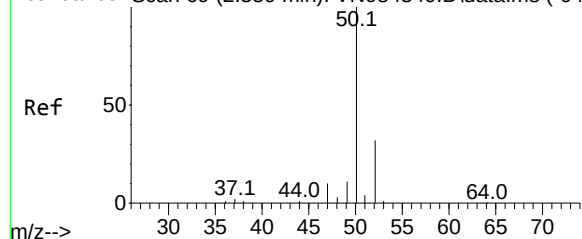


#2
Dichlorodifluoromethane
Concen: 95.924 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Tgt Ion: 85 Resp: 205380
Ion Ratio Lower Upper
85 100
87 32.7 15.4 46.4



Abundance Scan 69 (2.359 min): VN084340.D\data.ms (-64)



#3

Chloromethane

Concen: 97.710 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 50 Resp: 238067

Ion Ratio Lower Upper

50 100

52 31.7 25.8 38.6

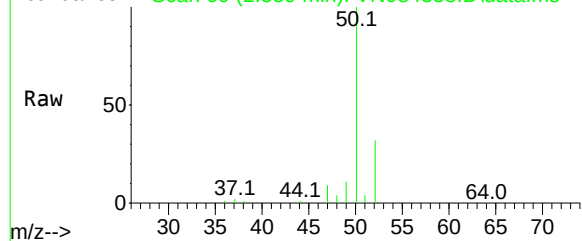
Manual Integrations

APPROVED

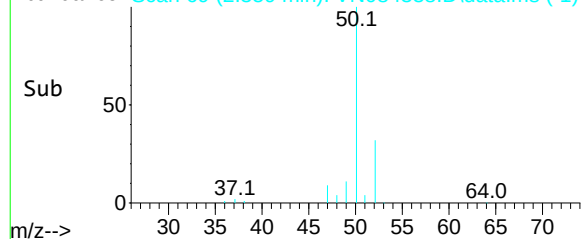
Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024

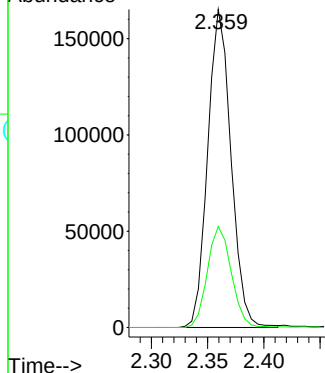
Abundance Scan 69 (2.359 min): VN084338.D\data.ms



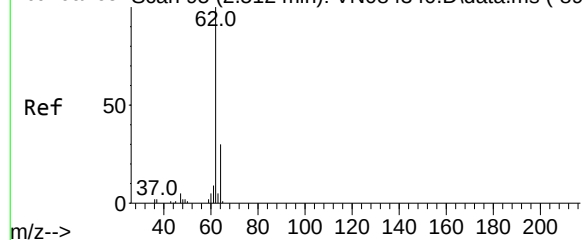
Abundance Scan 69 (2.359 min): VN084338.D\data.ms (-1)



Abundance



Abundance Scan 95 (2.512 min): VN084340.D\data.ms (-89)



#4

Vinyl Chloride

Concen: 97.168 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

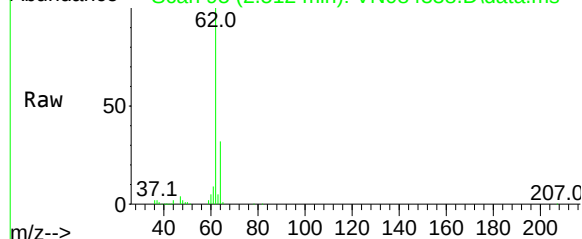
Tgt Ion: 62 Resp: 232167

Ion Ratio Lower Upper

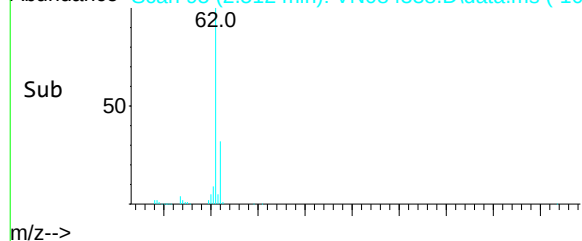
62 100

64 31.6 24.3 36.5

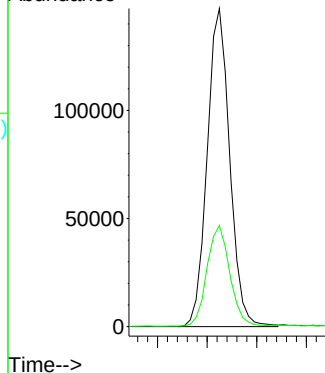
Abundance Scan 95 (2.512 min): VN084338.D\data.ms

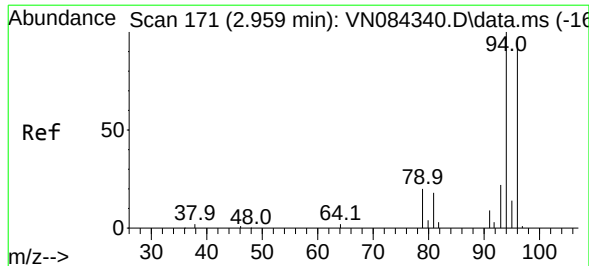


Abundance Scan 95 (2.512 min): VN084338.D\data.ms (-10)



Abundance





#5

Bromomethane

Concen: 91.091 ug/l

RT: 2.930 min Scan# 16

Delta R.T. -0.029 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 94 Resp: 144198

Ion Ratio Lower Upper

94 100

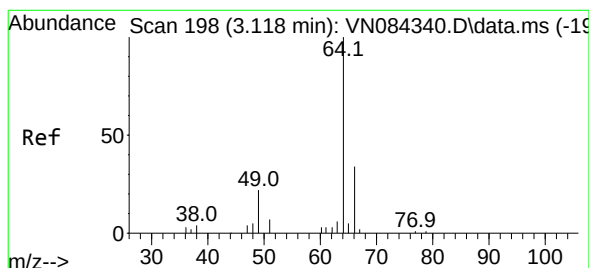
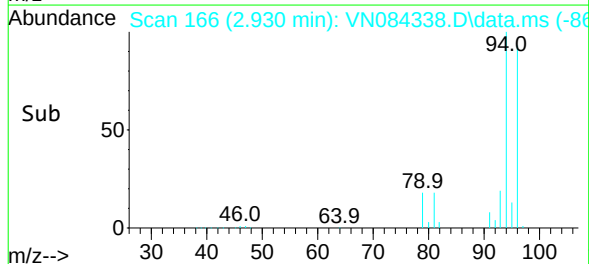
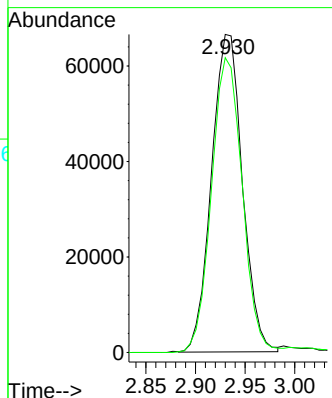
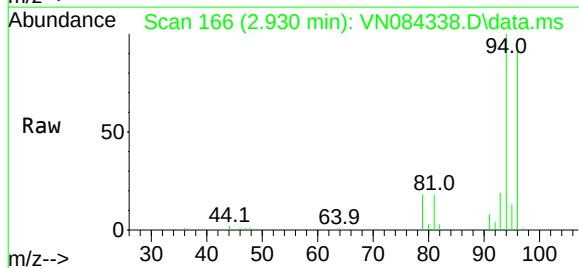
96 92.7 76.7 115.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#6

Chloroethane

Concen: 89.888 ug/l

RT: 3.106 min Scan# 196

Delta R.T. -0.012 min

Lab File: VN084338.D

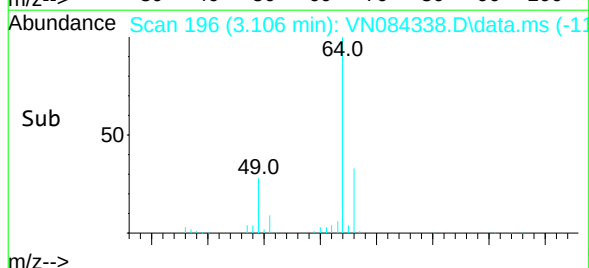
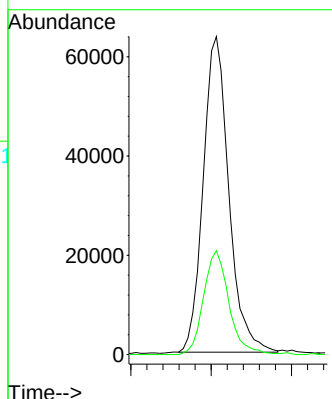
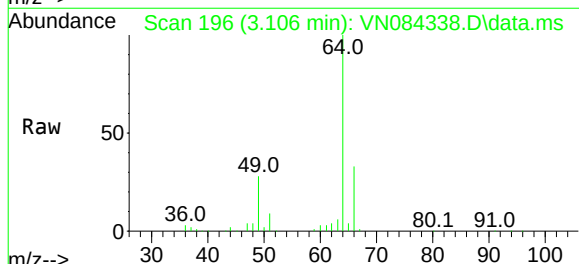
Acq: 08 Oct 2024 10:07

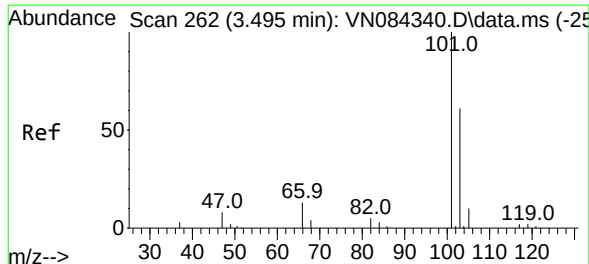
Tgt Ion: 64 Resp: 140802

Ion Ratio Lower Upper

64 100

66 32.9 27.7 41.5





#7

Trichlorofluoromethane

Concen: 97.500 ug/l

RT: 3.489 min Scan# 261

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:101 Resp: 379462

Ion Ratio Lower Upper

101 100

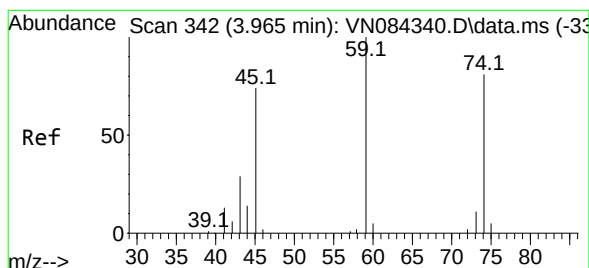
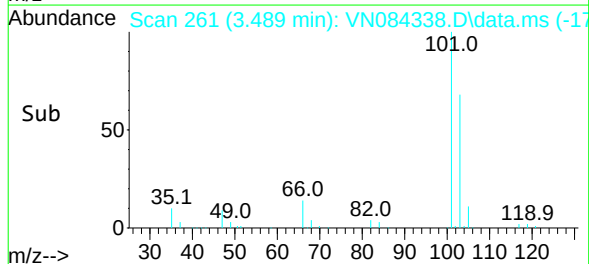
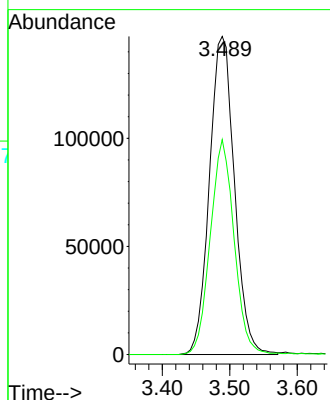
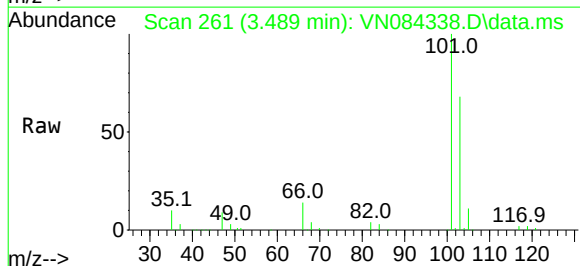
103 67.6 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#8

Diethyl Ether

Concen: 98.586 ug/l

RT: 3.959 min Scan# 341

Delta R.T. -0.006 min

Lab File: VN084338.D

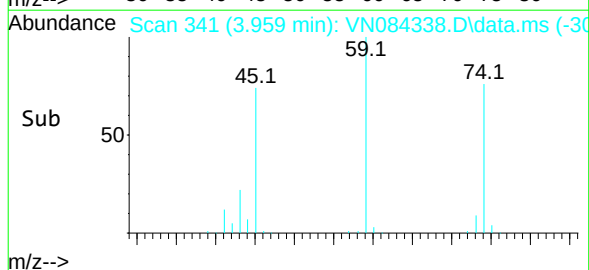
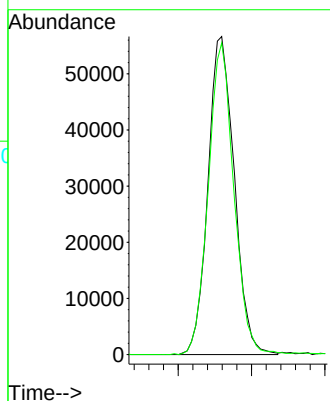
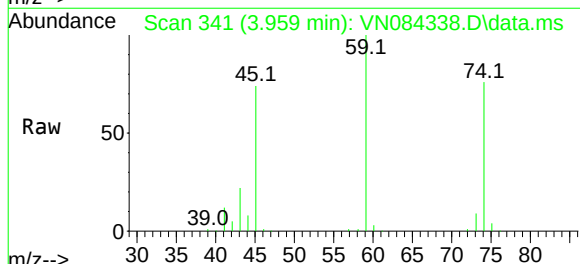
Acq: 08 Oct 2024 10:07

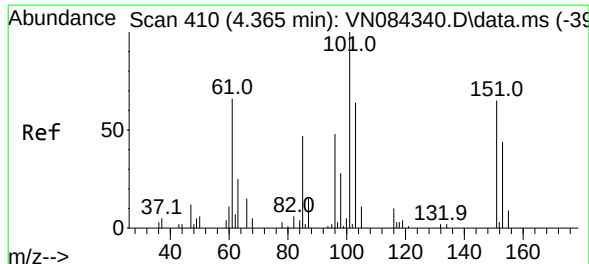
Tgt Ion: 74 Resp: 141064

Ion Ratio Lower Upper

74 100

45 94.9 19.2 173.2





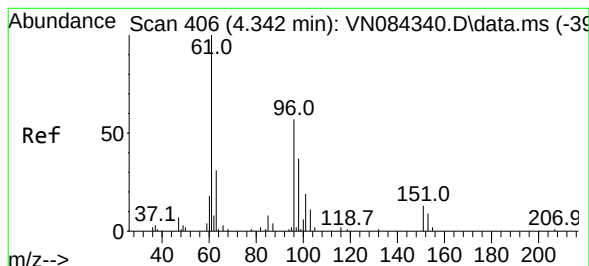
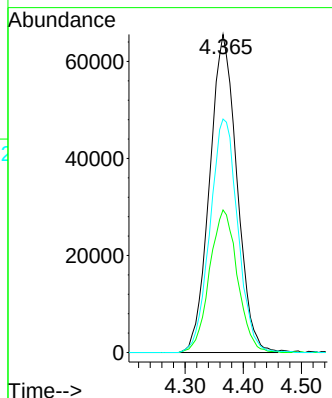
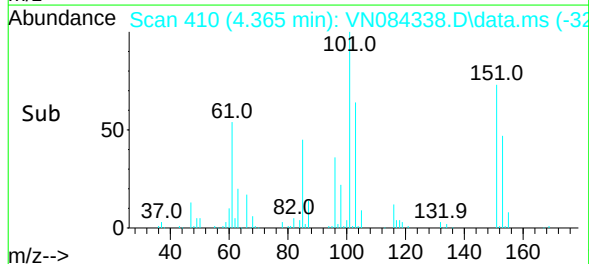
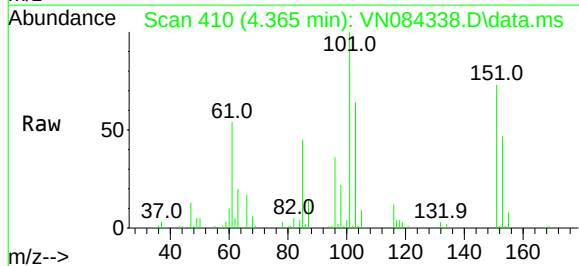
#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.714 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 101 Resp: 213828
Ion Ratio Lower Upper
101 100
85 45.7 0.0 93.6
151 74.8 0.0 151.8

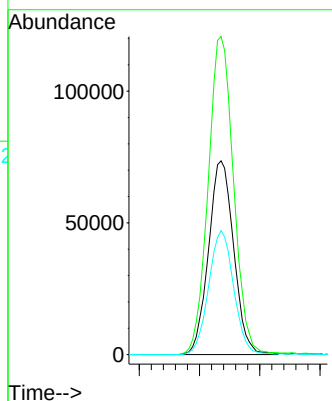
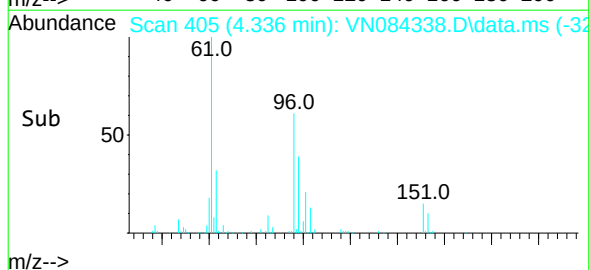
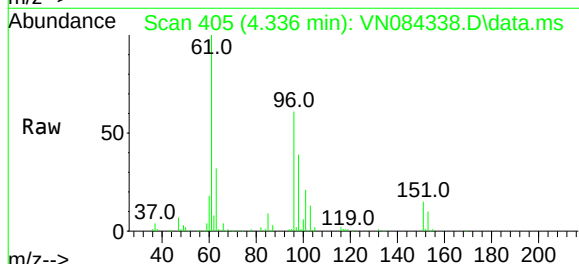
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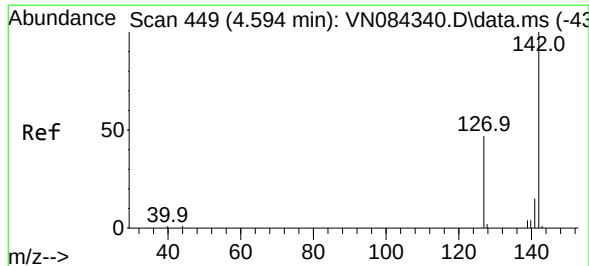
Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024



#10
1,1-Dichloroethene
Concen: 98.097 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

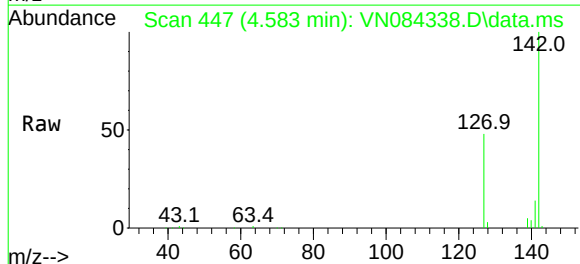
Tgt Ion: 96 Resp: 214197
Ion Ratio Lower Upper
96 100
61 164.1 140.8 211.2
98 64.0 52.2 78.2





#11
Methyl Iodide
Concen: 99.804 ug/l
RT: 4.583 min Scan# 44
Delta R.T. -0.012 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

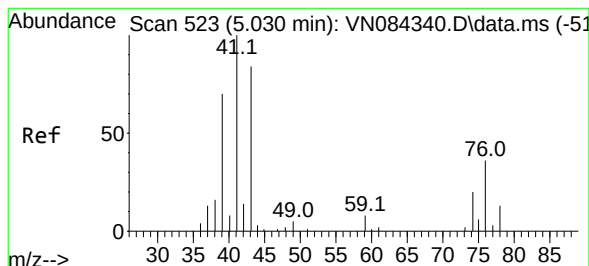
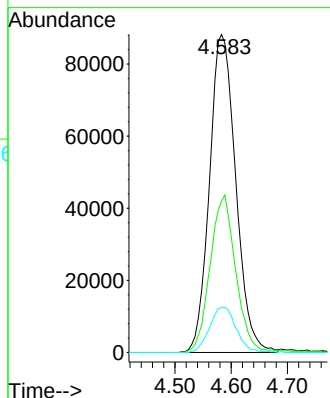
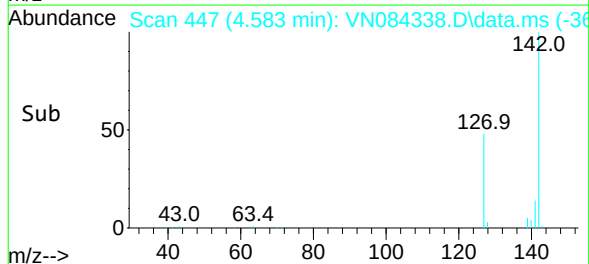
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 142 Resp: 286385
Ion Ratio Lower Upper
142 100
127 47.4 23.8 71.4
141 14.1 7.4 22.2

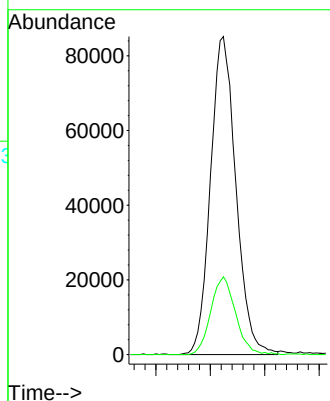
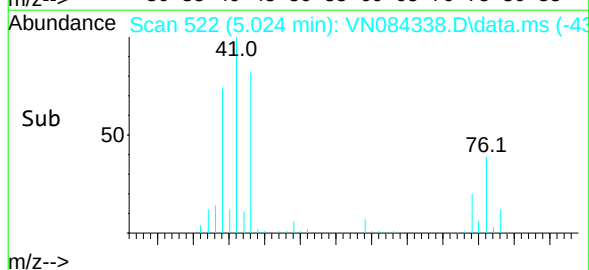
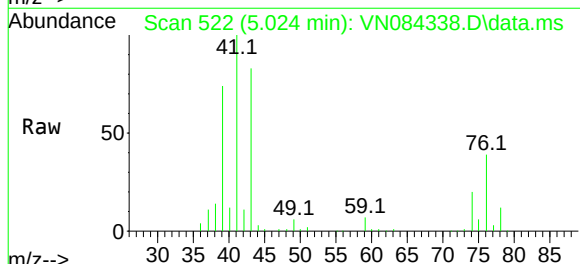
Manual Integrations
APPROVED

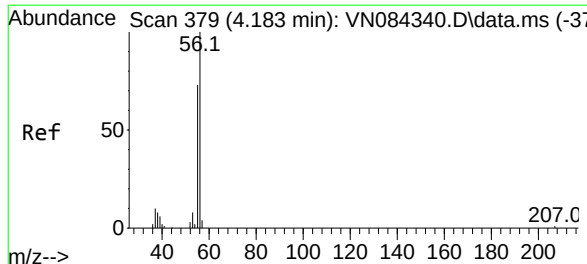
Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024



#12
Methyl Acetate
Concen: 101.206 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.006 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Tgt Ion: 43 Resp: 276654
Ion Ratio Lower Upper
43 100
74 24.4 19.4 29.2





#13

Acrolein

Concen: 518.323 ug/l

RT: 4.177 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 263202

Ion Ratio Lower Upper

56 100

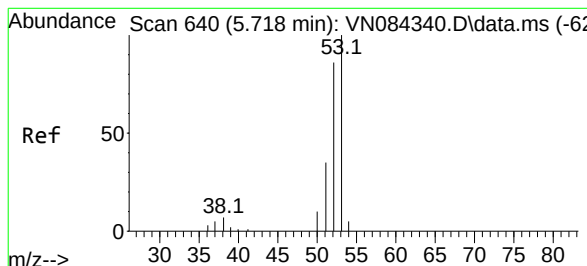
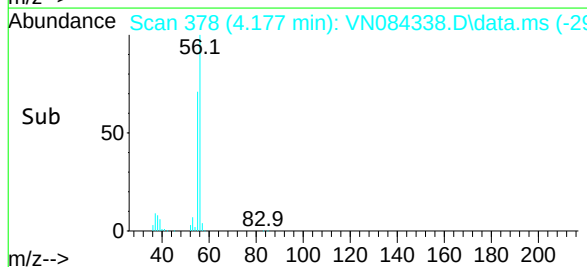
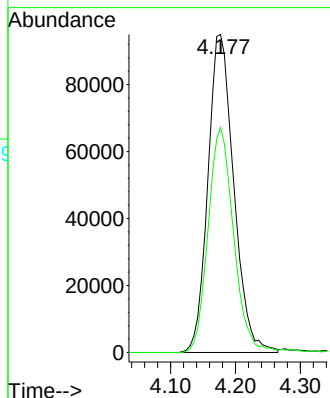
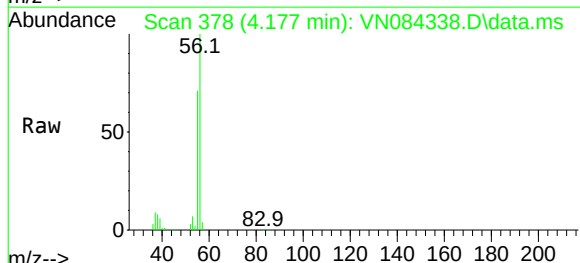
55 69.3 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#14

Acrylonitrile

Concen: 488.367 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

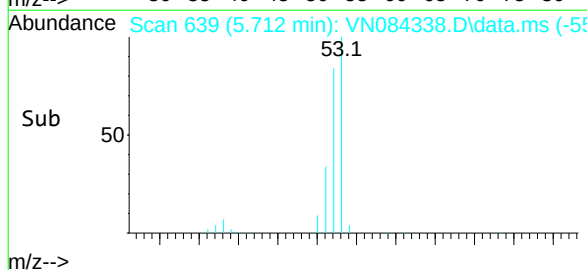
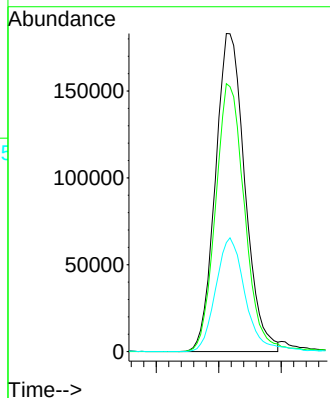
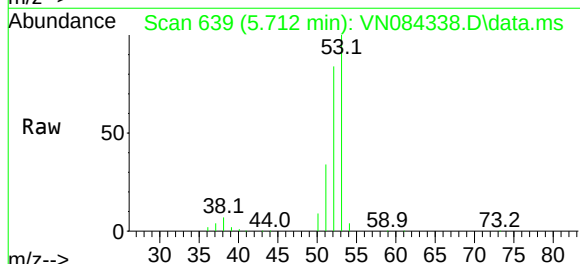
Tgt Ion: 53 Resp: 599763

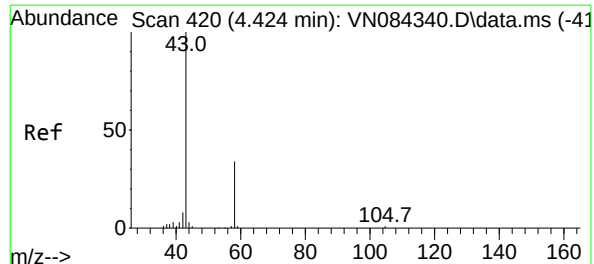
Ion Ratio Lower Upper

53 100

52 83.2 40.4 121.2

51 36.0 17.8 53.4





#15

Acetone

Concen: 524.611 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 58 Resp: 184044

Ion Ratio Lower Upper

58 100

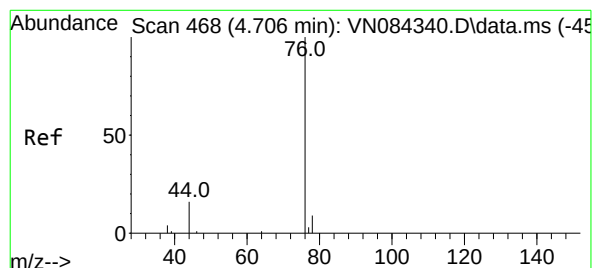
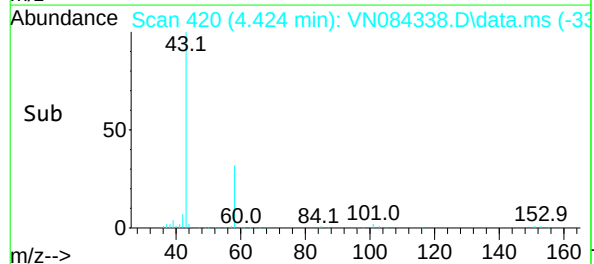
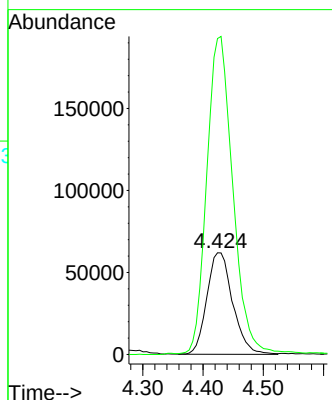
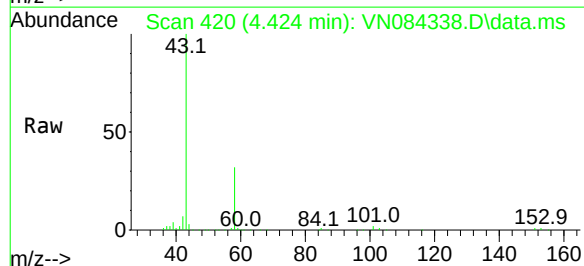
43 310.9 237.5 356.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#16

Carbon Disulfide

Concen: 94.737 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN084338.D

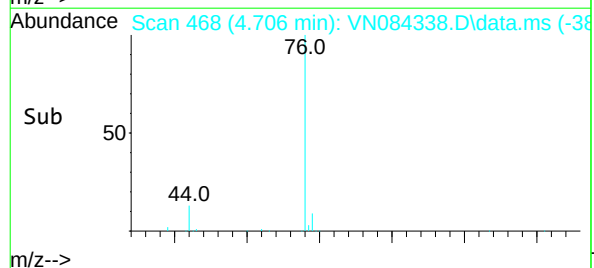
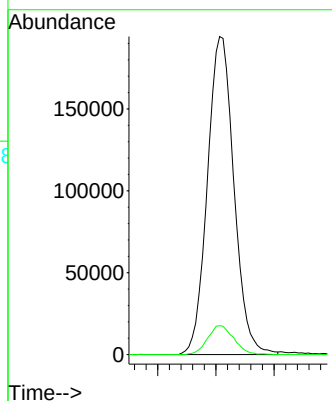
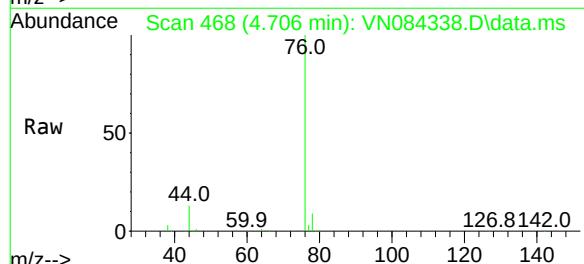
Acq: 08 Oct 2024 10:07

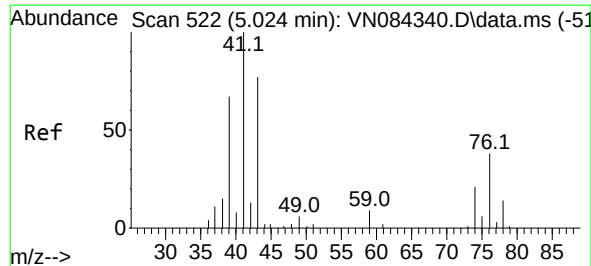
Tgt Ion: 76 Resp: 615999

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





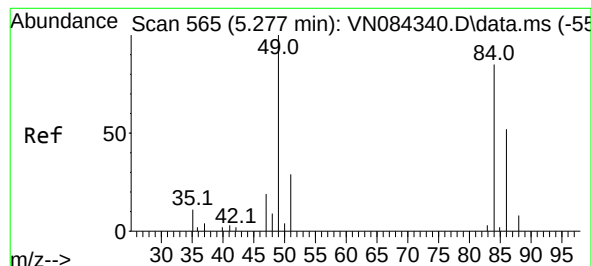
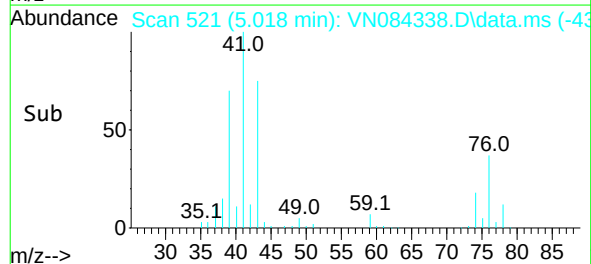
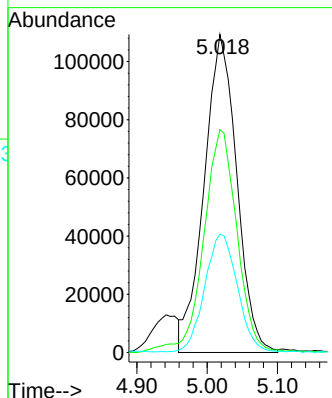
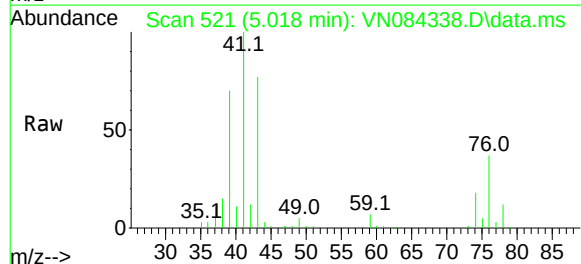
#17
Allyl chloride
Concen: 99.630 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:	41	Resp:	352646
Ion	Ratio	Lower	Upper
41	100		
39	69.8	31.4	94.3
76	37.2	17.8	53.5

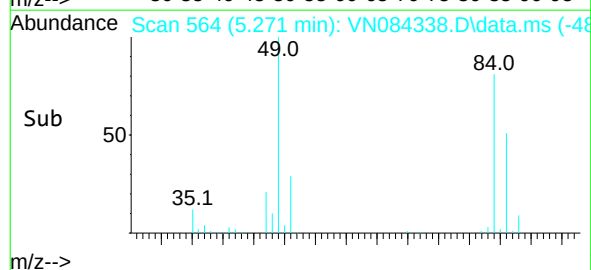
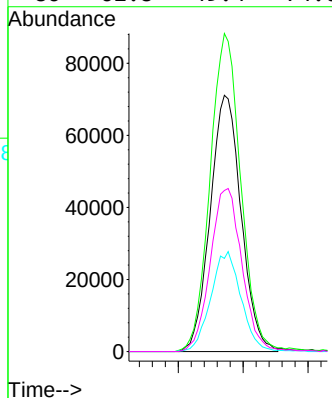
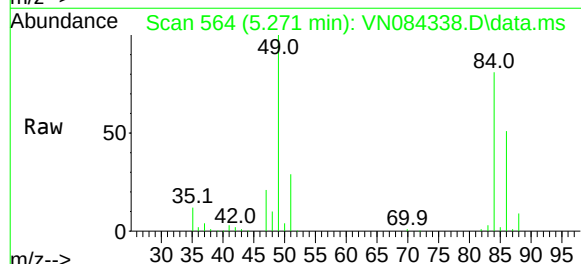
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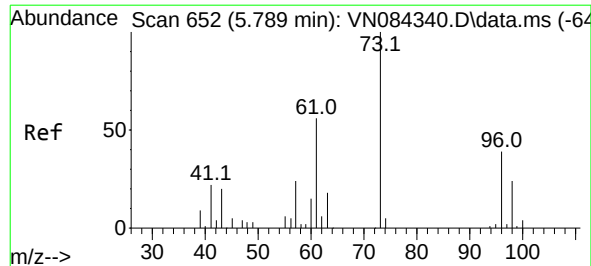
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#18
Methylene Chloride
Concen: 95.730 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Tgt Ion:	84	Resp:	235470
Ion	Ratio	Lower	Upper
84	100		
49	123.6	94.6	142.0
51	36.1	27.3	40.9
86	62.8	49.4	74.0





#19

trans-1,2-Dichloroethene

Concen: 97.266 ug/l

RT: 5.783 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 224774

Ion Ratio Lower Upper

96 100

61 133.7 115.8 173.6

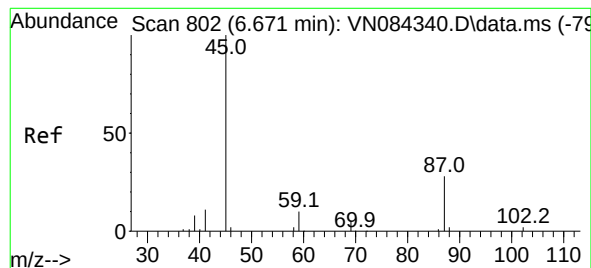
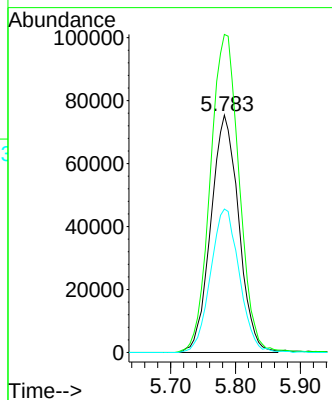
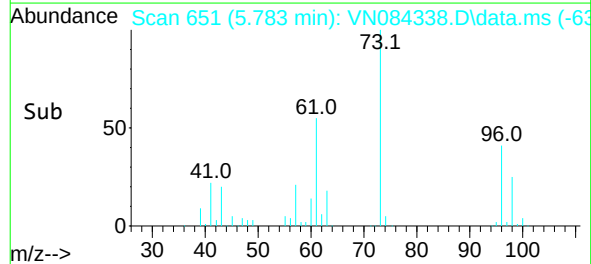
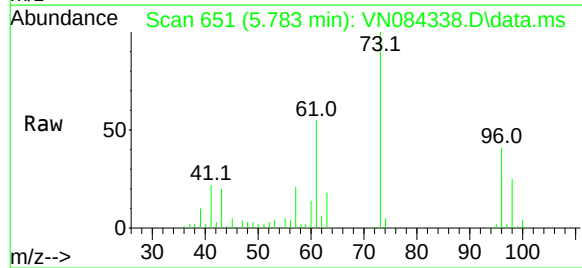
98 60.4 49.4 74.0

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Reviewed By :John Carlone 10/09/2024

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#20

Diisopropyl ether

Concen: 99.640 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Tgt Ion: 45 Resp: 758291

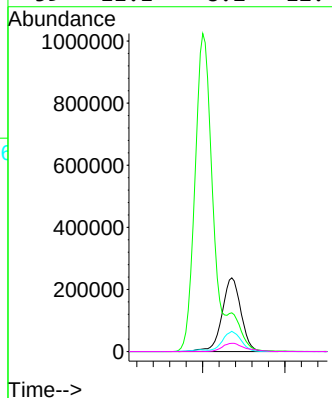
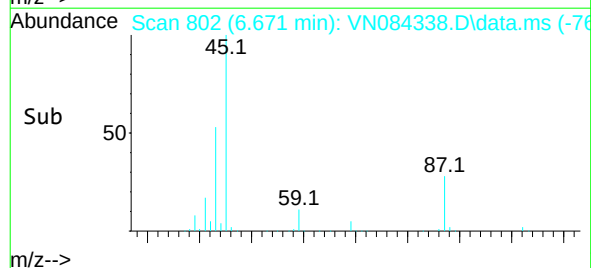
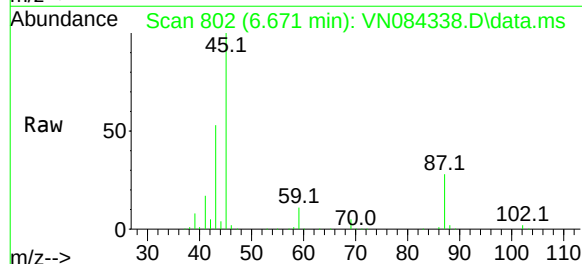
Ion Ratio Lower Upper

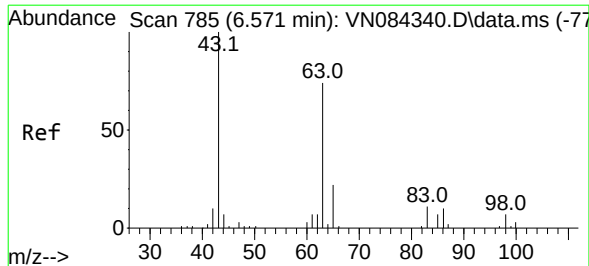
45 100

43 51.9 43.7 65.5

87 27.4 23.1 34.7

59 11.1 8.2 12.4





#21

1,1-Dichloroethane

Concen: 96.384 ug/l

RT: 6.565 min Scan# 78

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 420888

Ion Ratio Lower Upper

63 100

98 7.3 4.5 13.4

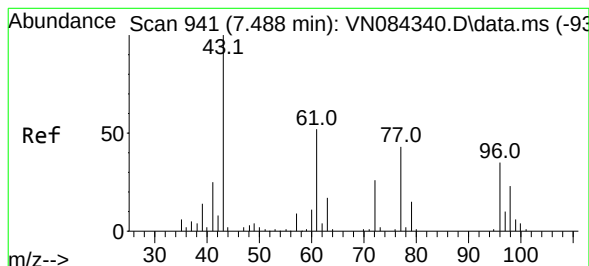
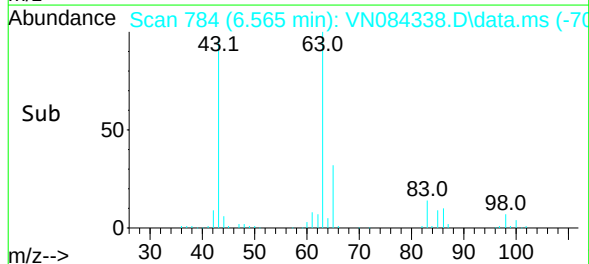
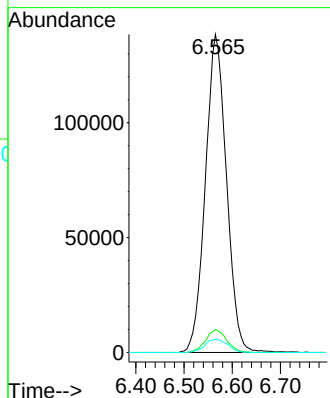
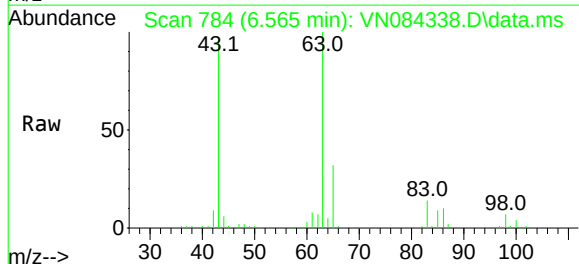
100 4.1 2.1 6.3

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#22

cis-1,2-Dichloroethene

Concen: 97.356 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

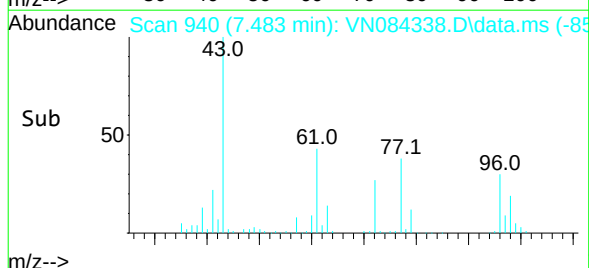
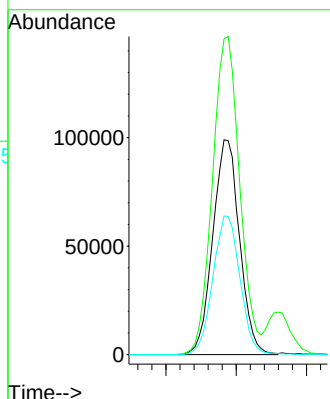
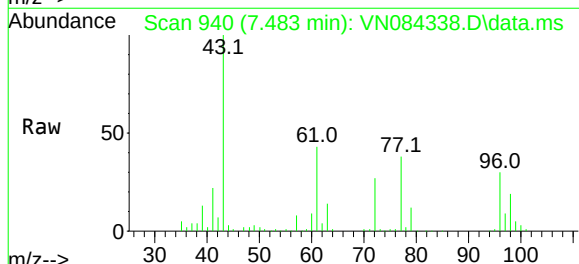
Tgt Ion: 96 Resp: 261797

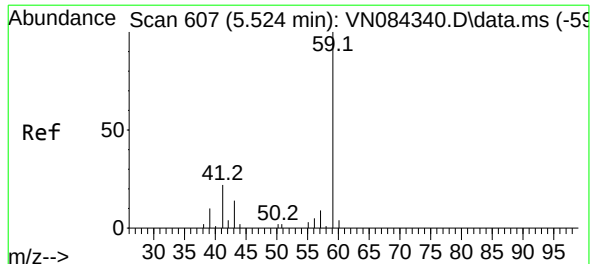
Ion Ratio Lower Upper

96 100

61 151.3 118.0 177.0

98 65.3 51.8 77.8





#23

tert-Butyl Alcohol

Concen: 504.229 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 237527

Ion Ratio Lower Upper

59 100

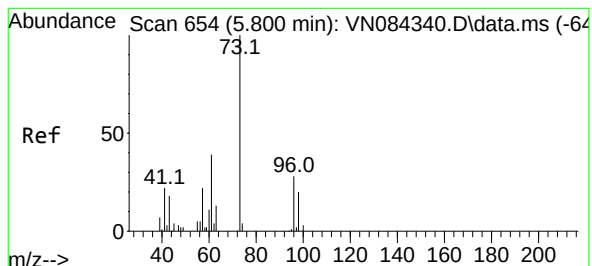
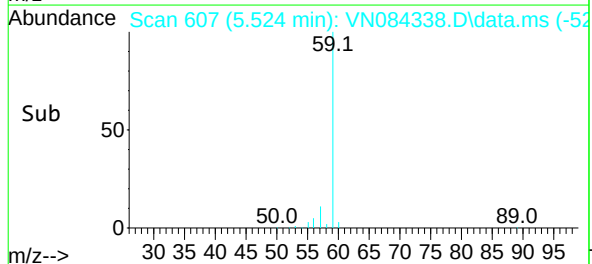
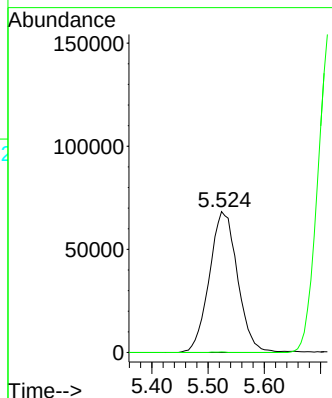
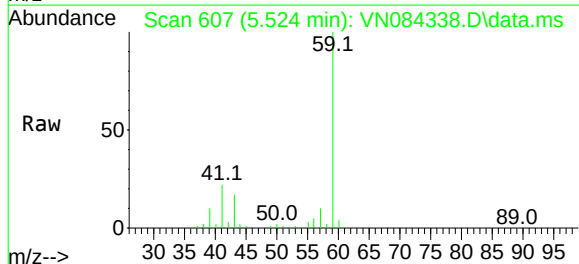
52 0.1 0.0 0.0#

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Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#24

Methyl tert-Butyl Ether

Concen: 100.410 ug/l

RT: 5.795 min Scan# 653

Delta R.T. -0.006 min

Lab File: VN084338.D

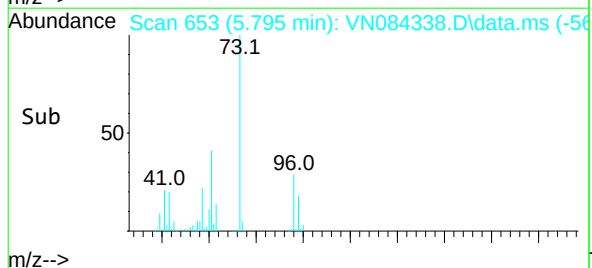
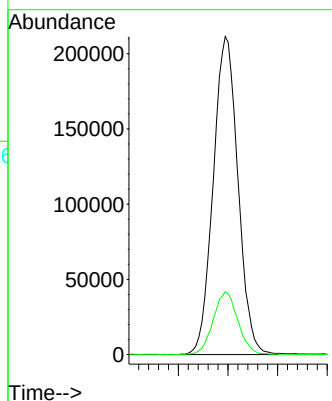
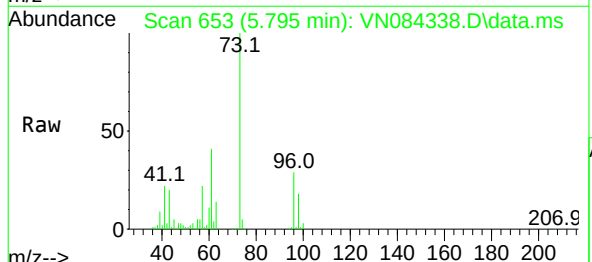
Acq: 08 Oct 2024 10:07

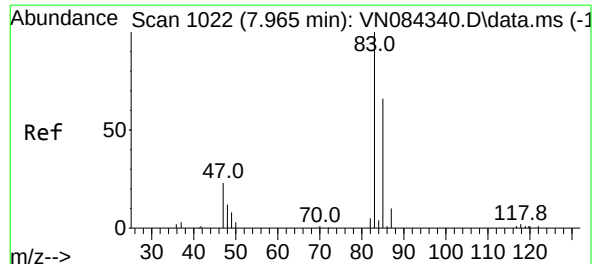
Tgt Ion: 73 Resp: 732699

Ion Ratio Lower Upper

73 100

43 19.7 10.9 16.3#





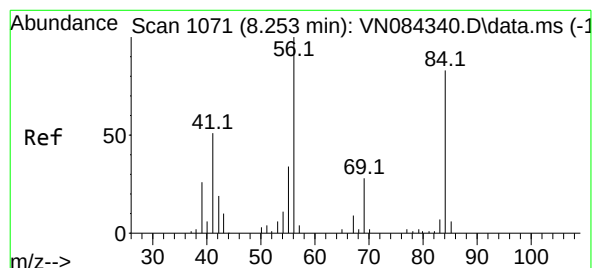
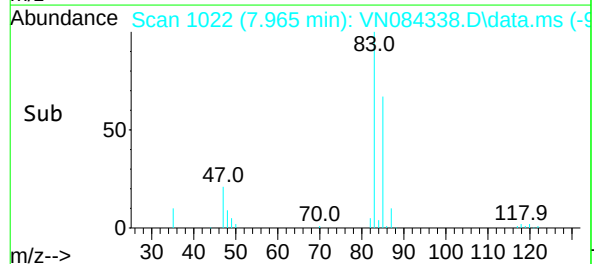
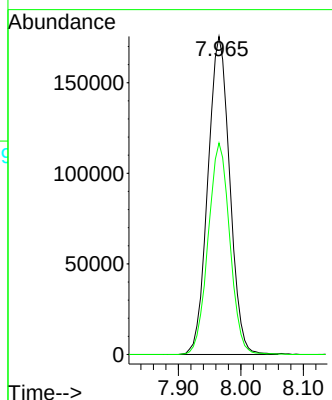
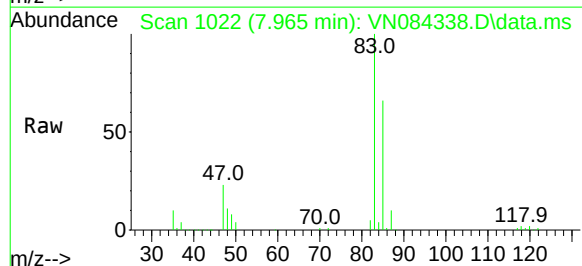
#25
Chloroform
Concen: 96.476 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 426680
Ion Ratio Lower Upper
83 100
85 66.5 52.4 78.6

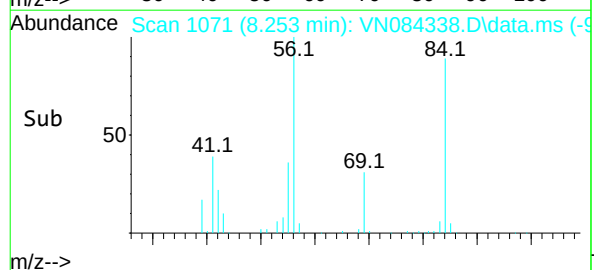
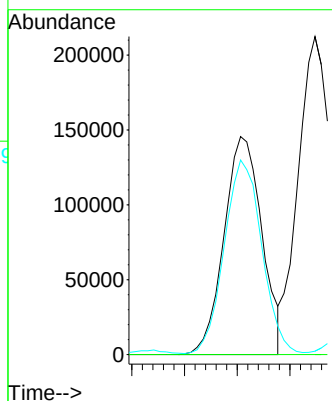
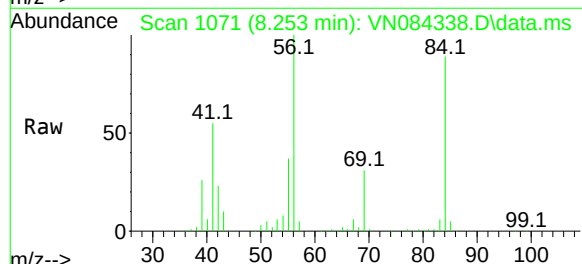
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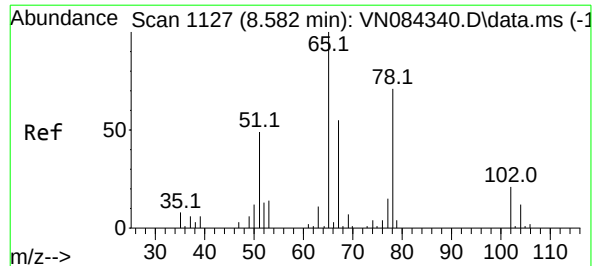
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#26
Cyclohexane
Concen: 99.442 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Tgt Ion: 56 Resp: 363184
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 89.0 67.0 100.6





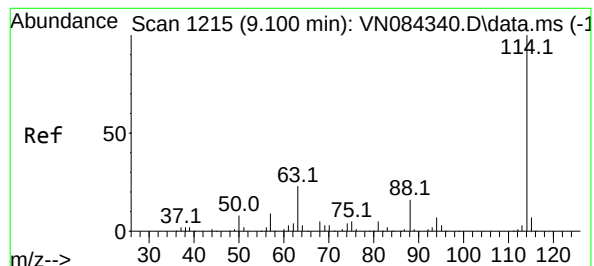
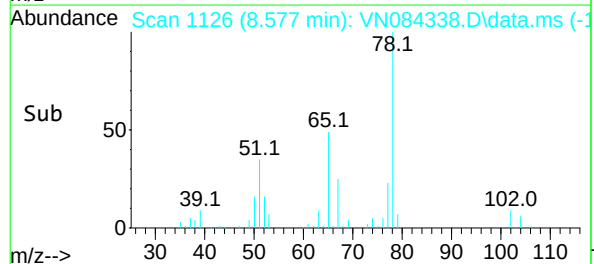
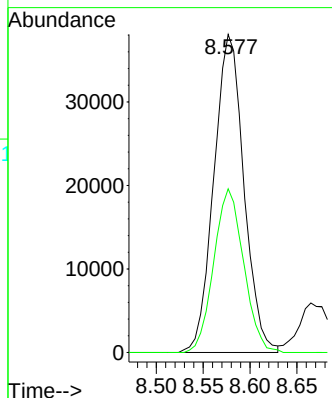
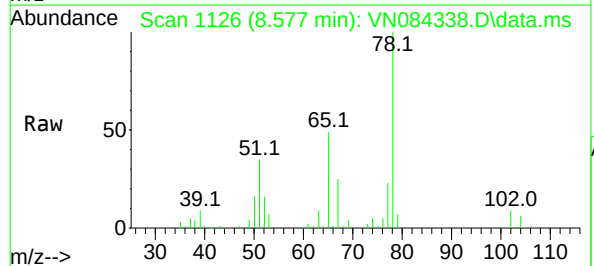
#27
1,2-Dichloroethane-d4
Concen: 30.048 ug/l
RT: 8.577 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 84835
Ion Ratio Lower Upper
65 100
67 51.1 41.5 62.3

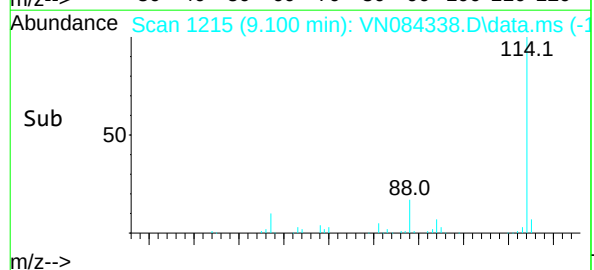
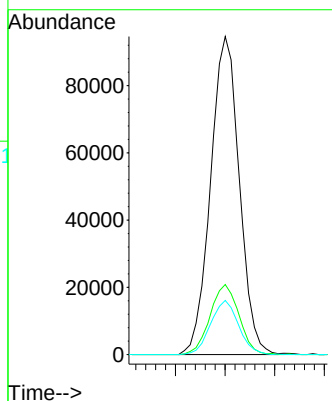
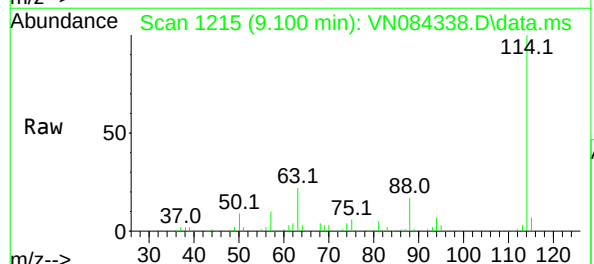
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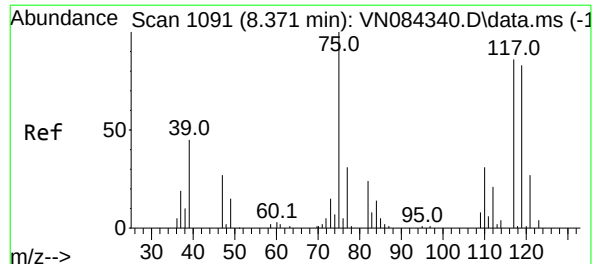
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Tgt Ion:114 Resp: 190456
Ion Ratio Lower Upper
114 100
63 22.1 17.4 26.0
88 16.6 13.2 19.8





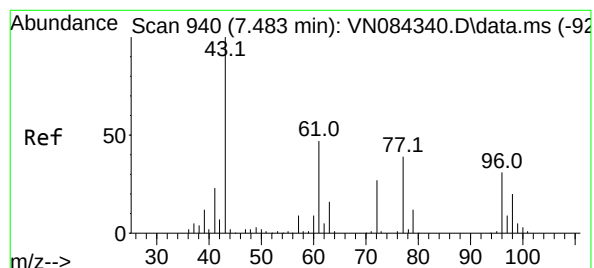
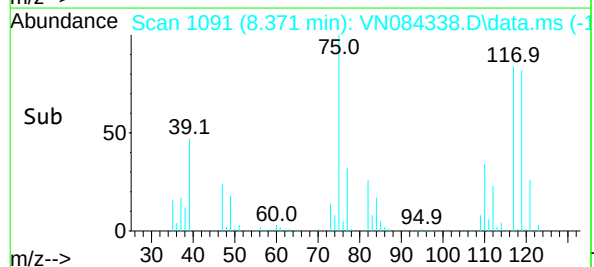
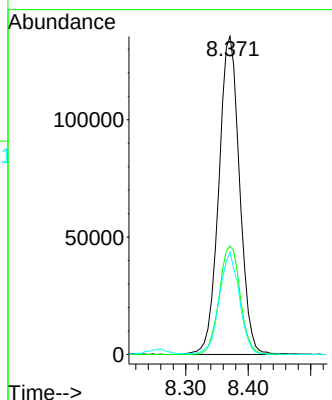
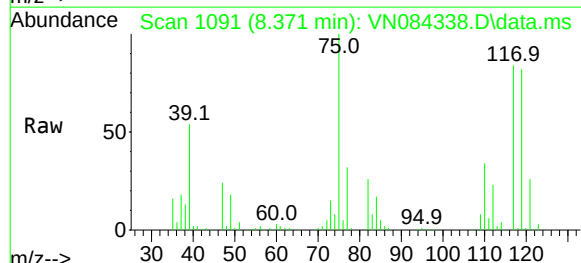
#29
1,1-Dichloropropene
Concen: 100.036 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 312760
Ion Ratio Lower Upper
75 100
110 34.6 0.0 67.6
77 31.2 0.0 61.4

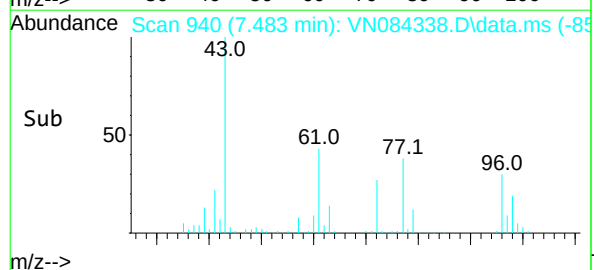
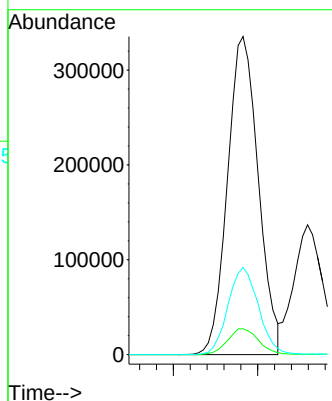
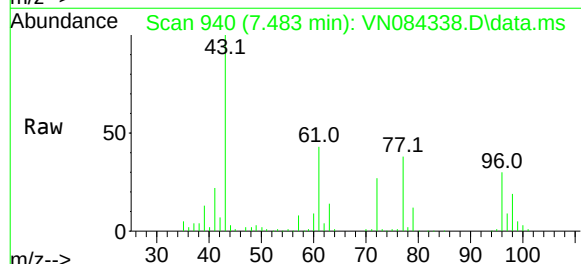
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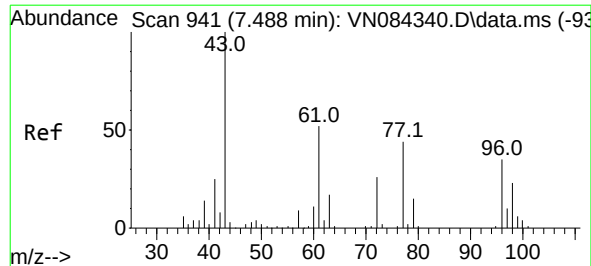
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#30
2-Butanone
Concen: 512.158 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Tgt Ion: 43 Resp: 852543
Ion Ratio Lower Upper
43 100
57 8.2 6.6 9.8
72 27.1 21.3 31.9





#31

2,2-Dichloropropane

Concen: 100.772 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 77 Resp: 370236

Ion Ratio Lower Upper

77 100

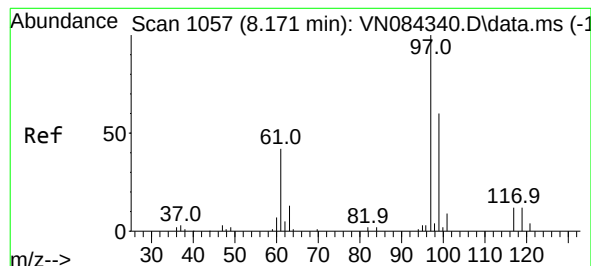
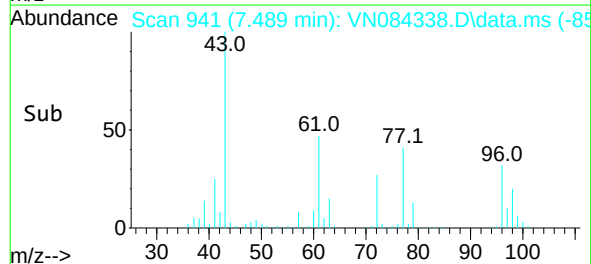
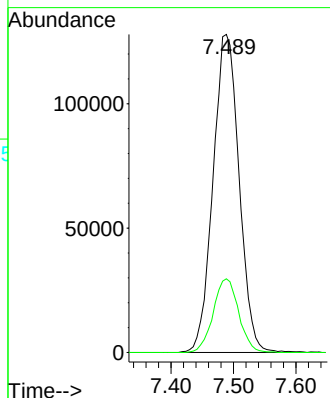
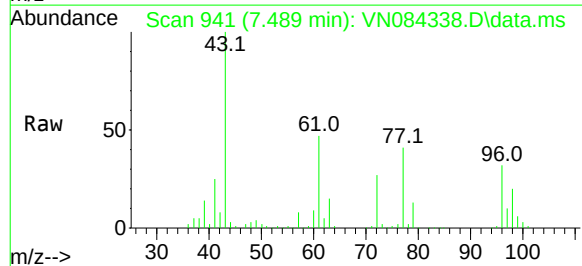
97 22.6 11.5 17.3#

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 99.955 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

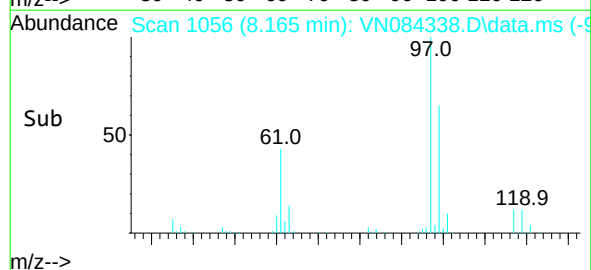
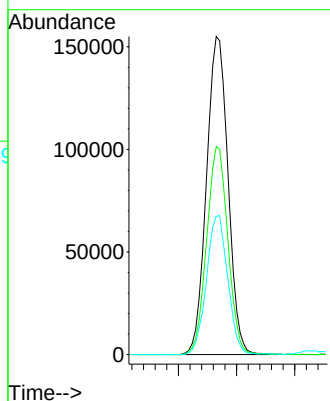
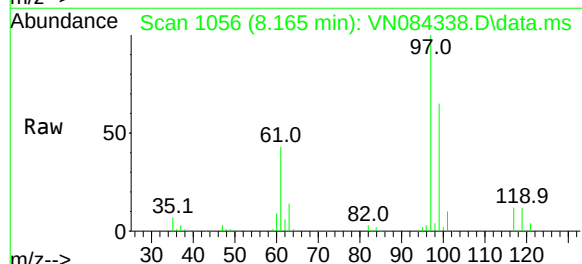
Tgt Ion: 97 Resp: 399456

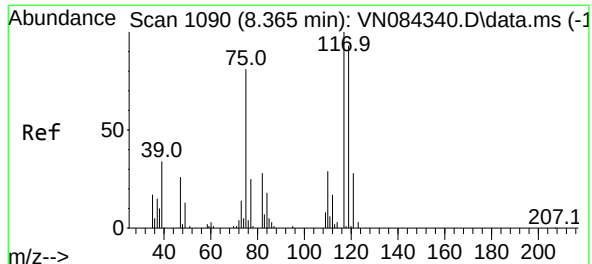
Ion Ratio Lower Upper

97 100

99 64.4 51.2 76.8

61 43.0 34.1 51.1





#33

Carbon Tetrachloride

Concen: 100.397 ug/l

RT: 8.359 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084338.D

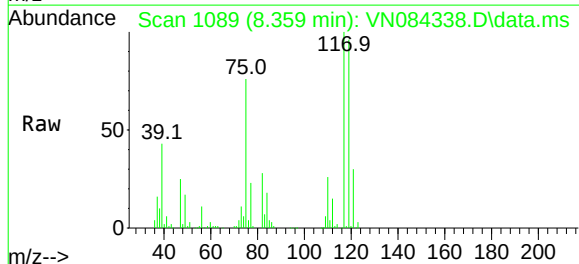
Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100



Tgt Ion: 117 Resp: 347588

Ion Ratio Lower Upper

117 100

119 95.7 74.3 111.5

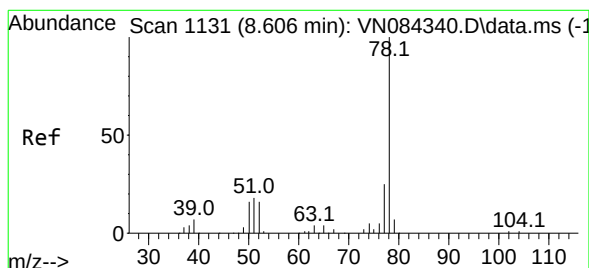
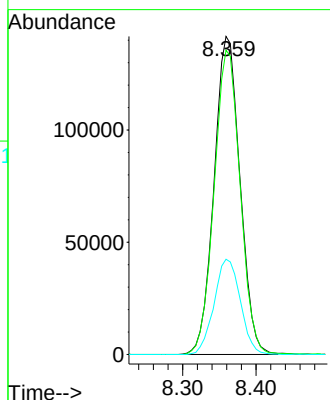
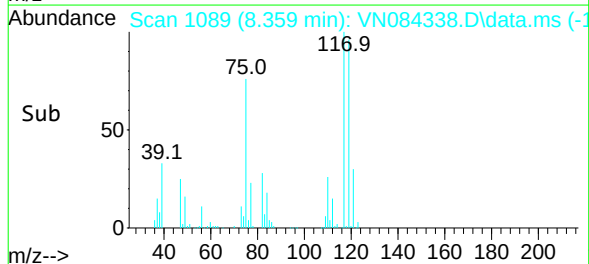
121 29.9 22.4 33.6

Manual Integrations

APPROVED

Reviewed By : John Carlone 10/09/2024

Supervised By : Mahesh Dadoda 10/09/2024



#34

Benzene

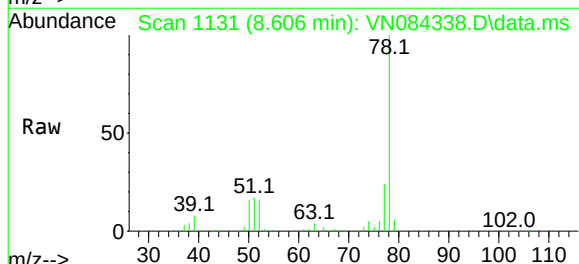
Concen: 98.185 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07



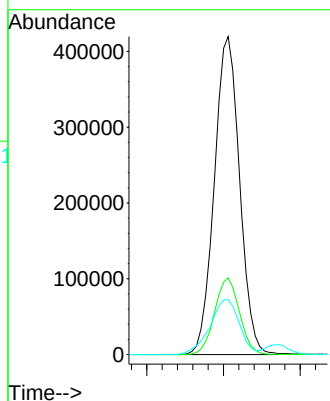
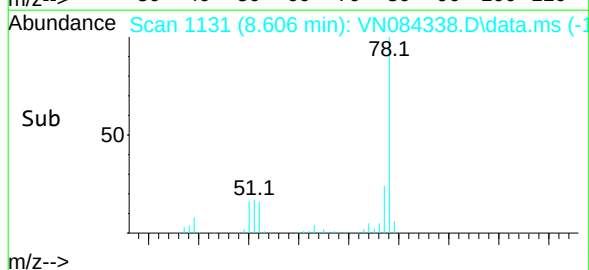
Tgt Ion: 78 Resp: 960915

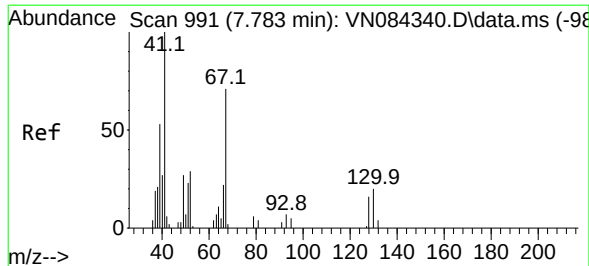
Ion Ratio Lower Upper

78 100

77 24.1 19.6 29.4

51 17.1 15.8 23.6





#35

Methacrylonitrile

Concen: 106.088 ug/l

RT: 7.777 min Scan# 991

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 188397

Ion Ratio Lower Upper

41 100

39 51.5 26.4 79.0

67 67.7 35.7 107.1

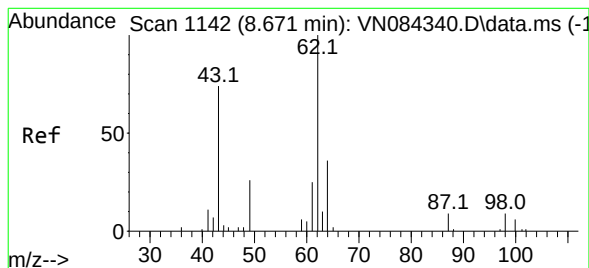
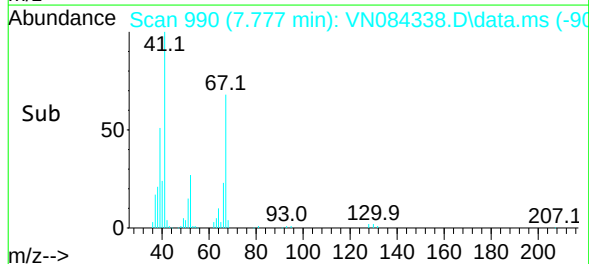
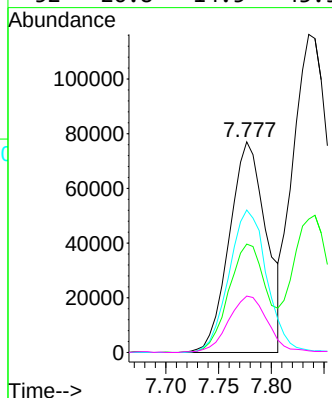
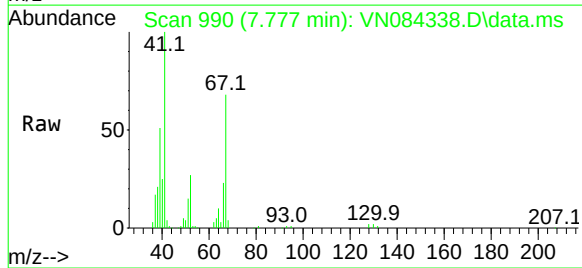
52 26.8 14.5 43.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#36

1,2-Dichloroethane

Concen: 98.324 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN084338.D

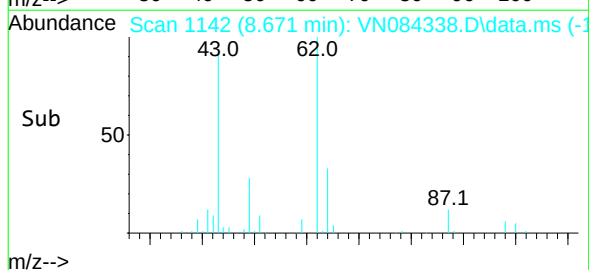
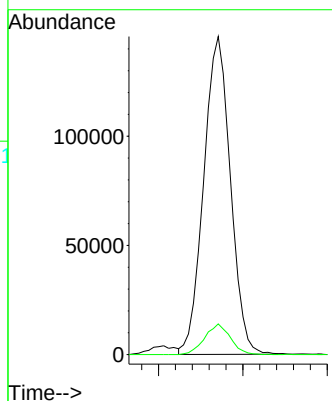
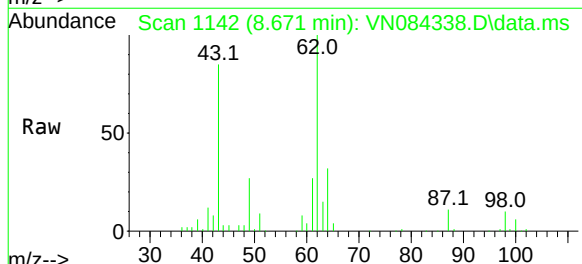
Acq: 08 Oct 2024 10:07

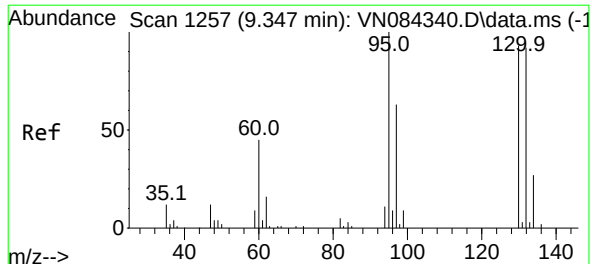
Tgt Ion: 62 Resp: 320751

Ion Ratio Lower Upper

62 100

98 9.2 7.3 10.9





#37

Trichloroethene

Concen: 99.445 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN084338.D

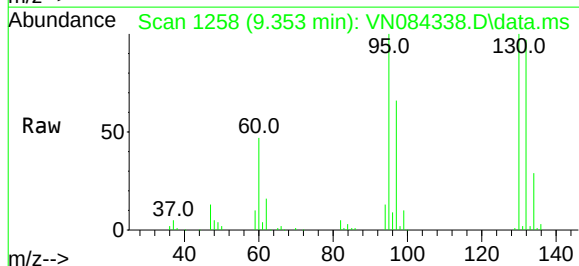
Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100



Tgt Ion:130 Resp: 224110

Ion Ratio Lower Upper

130 100

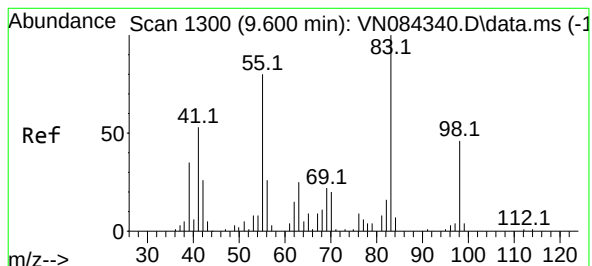
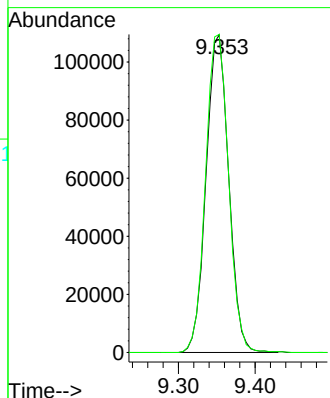
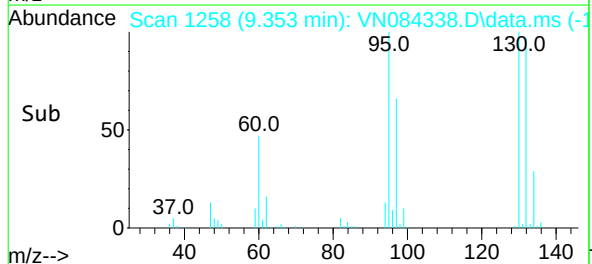
95 100.1 85.8 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#38

Methylcyclohexane

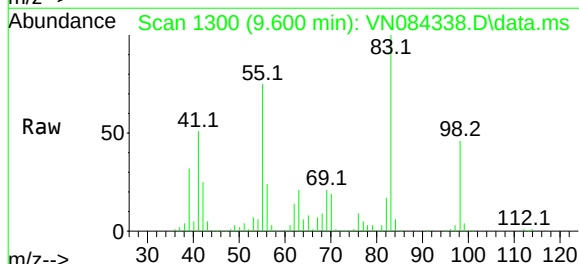
Concen: 104.567 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07



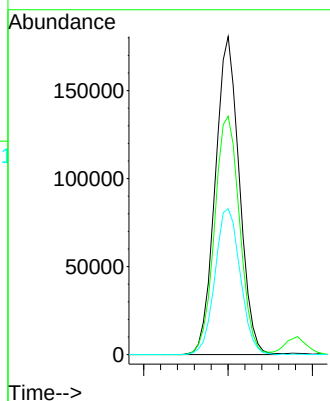
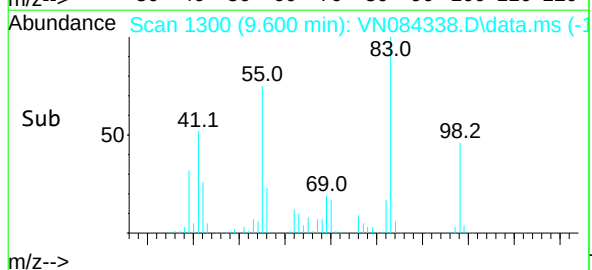
Tgt Ion: 83 Resp: 359108

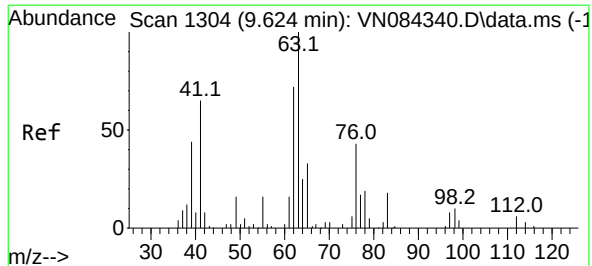
Ion Ratio Lower Upper

83 100

55 77.7 39.3 117.8

98 48.0 24.0 72.0





#39

1,2-Dichloropropane

Concen: 98.802 ug/l

RT: 9.618 min Scan# 13

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 235798

Ion Ratio Lower Upper

63 100

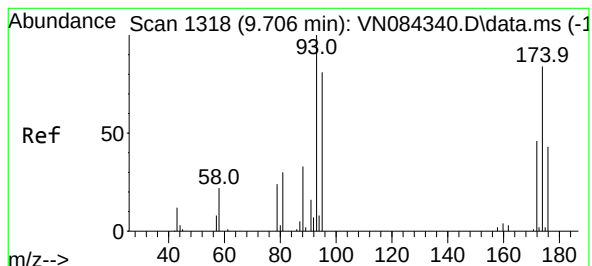
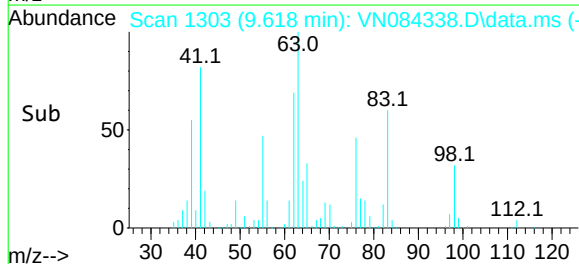
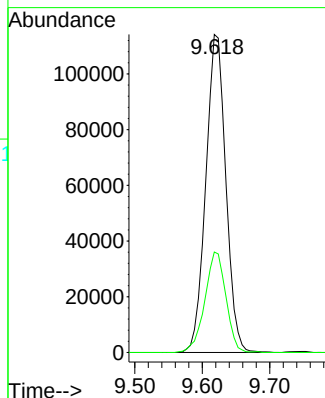
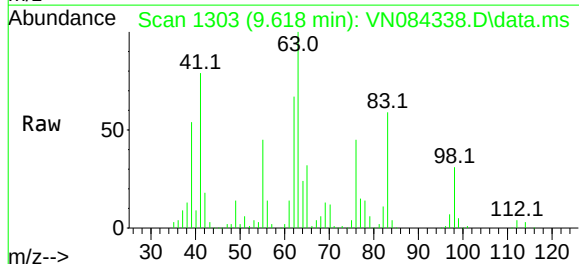
65 31.6 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#40

Dibromomethane

Concen: 97.960 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

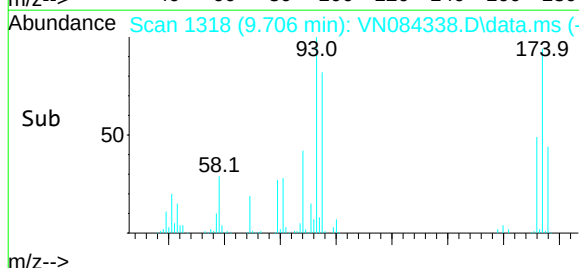
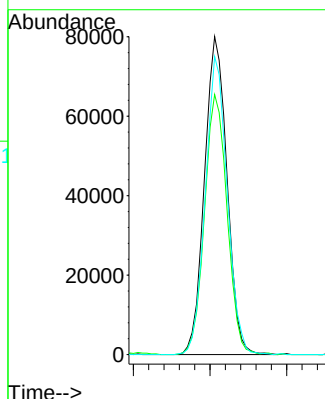
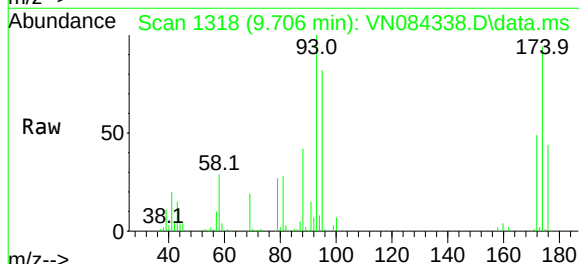
Tgt Ion: 93 Resp: 163396

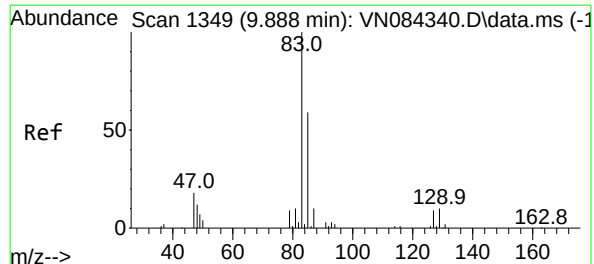
Ion Ratio Lower Upper

93 100

95 81.8 0.0 171.4

174 91.3 0.0 183.0





#41

Bromodichloromethane

Concen: 99.048 ug/l

RT: 9.888 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 350730

Ion Ratio Lower Upper

83 100

85 65.6 47.1 70.7

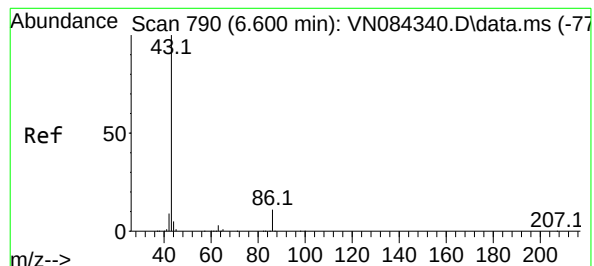
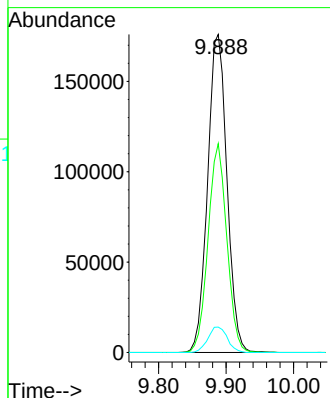
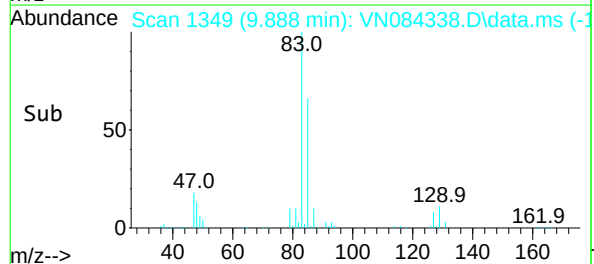
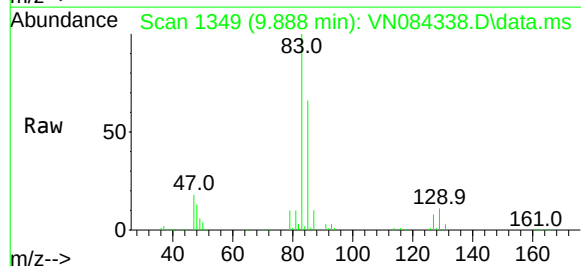
127 8.0 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#42

Vinyl Acetate

Concen: 517.998 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.000 min

Lab File: VN084338.D

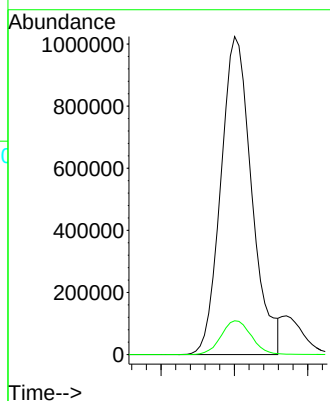
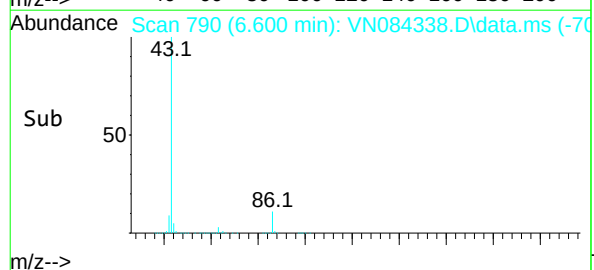
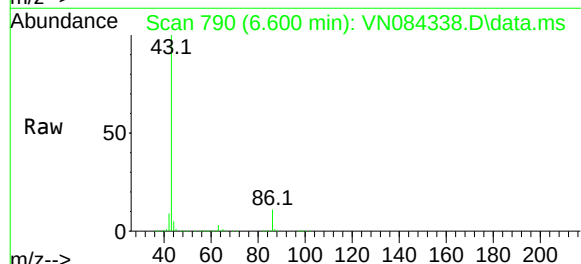
Acq: 08 Oct 2024 10:07

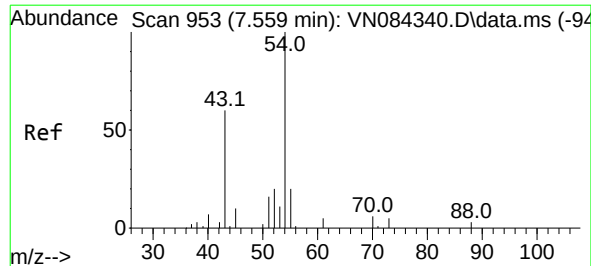
Tgt Ion: 43 Resp: 2998867

Ion Ratio Lower Upper

43 100

86 10.5 8.5 12.7





#43

Ethyl Acetate

Concen: 102.827 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 337577

Ion Ratio Lower Upper

43 100

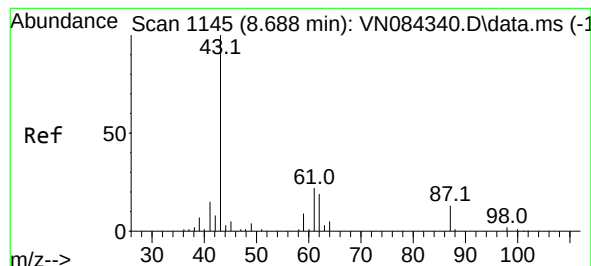
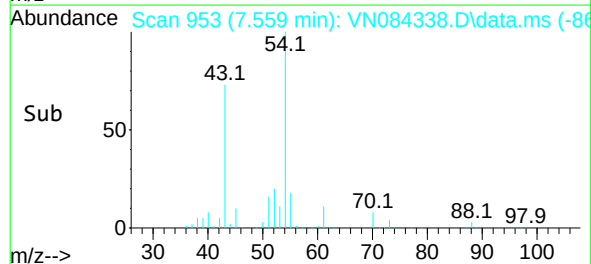
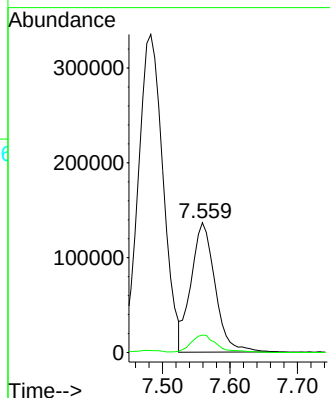
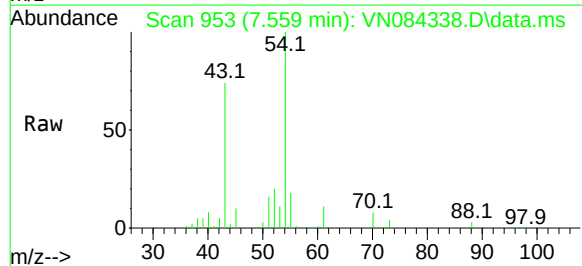
45 14.6 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#44

Isopropyl Acetate

Concen: 103.059 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084338.D

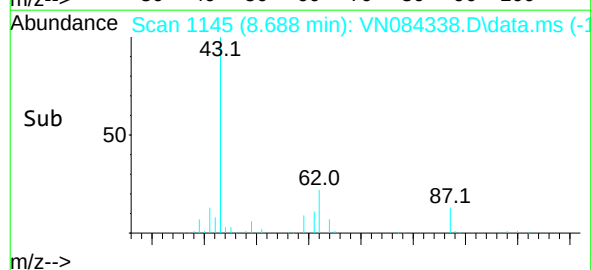
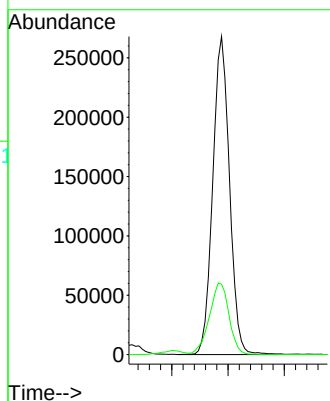
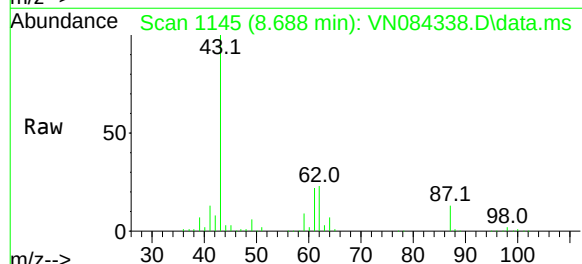
Acq: 08 Oct 2024 10:07

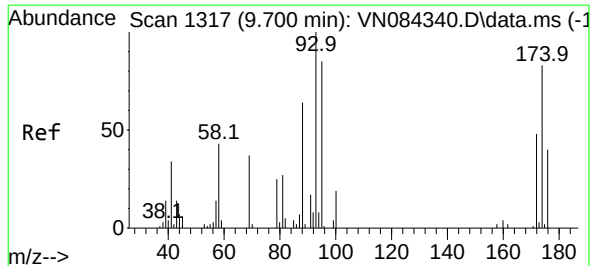
Tgt Ion: 43 Resp: 553772

Ion Ratio Lower Upper

43 100

61 26.5 21.4 32.2





#45

1,4-Dioxane

Concen: 2116.681 ug/l

RT: 9.694 min Scan# 1313

Delta R.T. -0.006 min

Lab File: VN084338.D

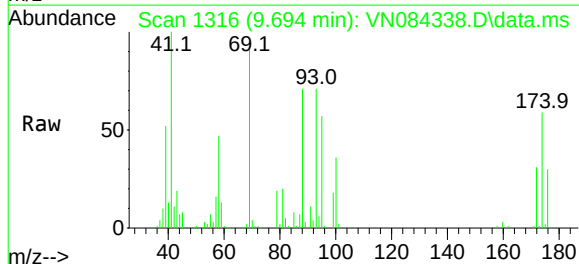
Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100



Tgt Ion: 88 Resp: 102529

Ion Ratio Lower Upper

88 100

43 29.0 22.4 33.6

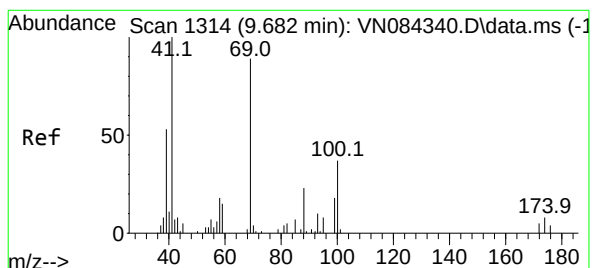
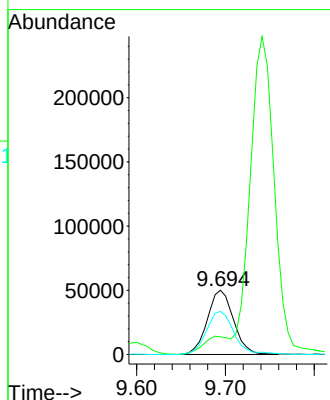
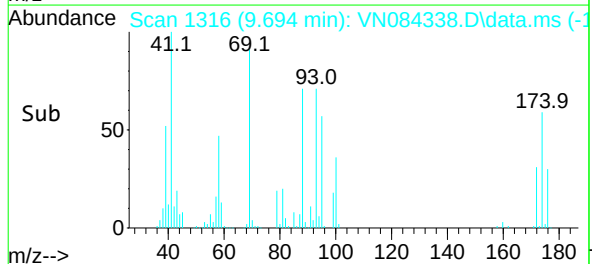
58 68.9 59.7 89.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#46

Methyl methacrylate

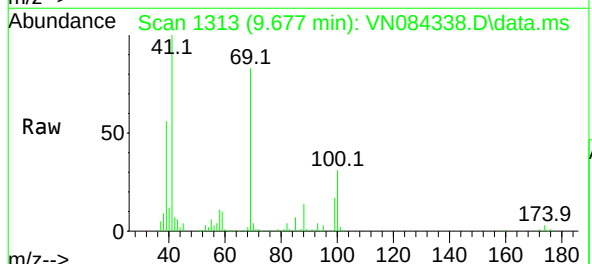
Concen: 102.653 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07



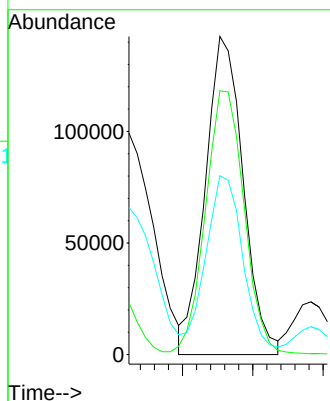
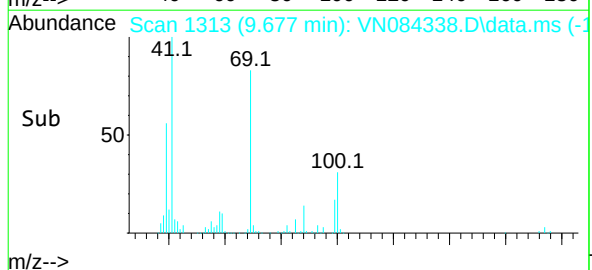
Tgt Ion: 41 Resp: 266510

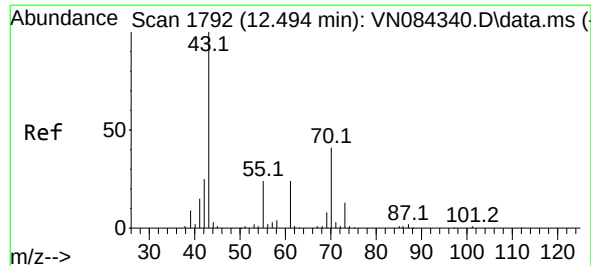
Ion Ratio Lower Upper

41 100

69 85.3 42.6 128.0

39 56.3 27.5 82.4





#47

n-amy1 Acetate

Concen: 105.767 ug/l

RT: 12.494 min Scan# 17

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 505509

Ion Ratio Lower Upper

43 100

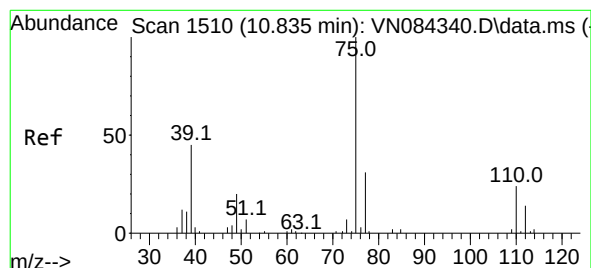
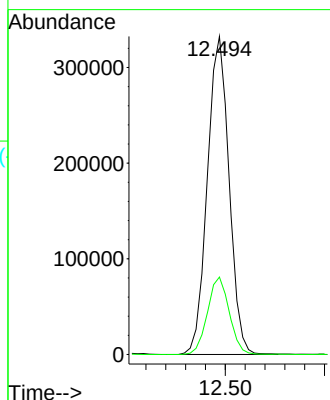
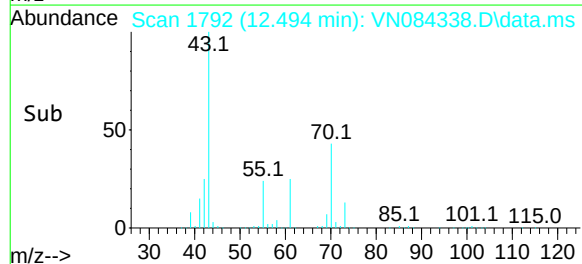
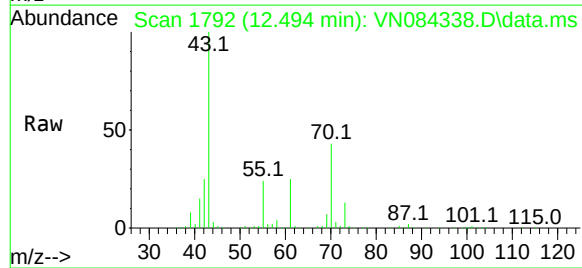
55 24.4 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#48

t-1,3-Dichloropropene

Concen: 100.723 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084338.D

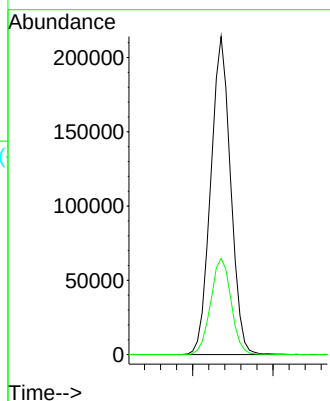
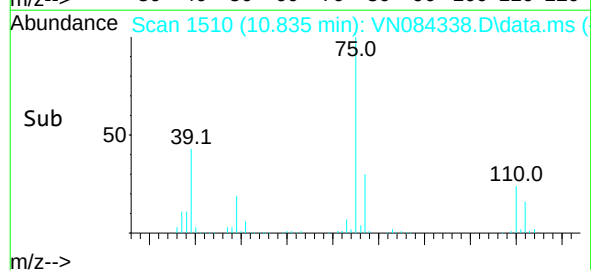
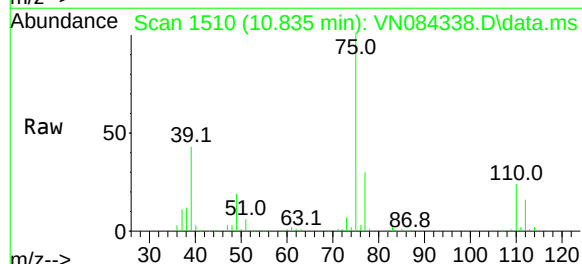
Acq: 08 Oct 2024 10:07

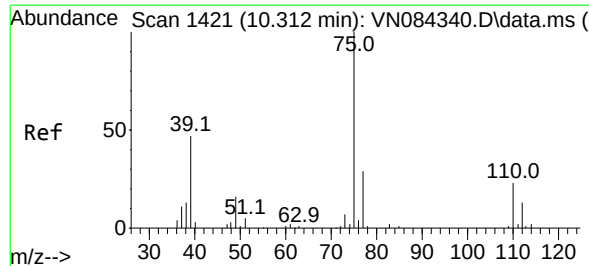
Tgt Ion: 75 Resp: 368556

Ion Ratio Lower Upper

75 100

77 30.2 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 102.004 ug/l

RT: 10.312 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 391167

Ion Ratio Lower Upper

75 100

77 33.1 22.9 34.3

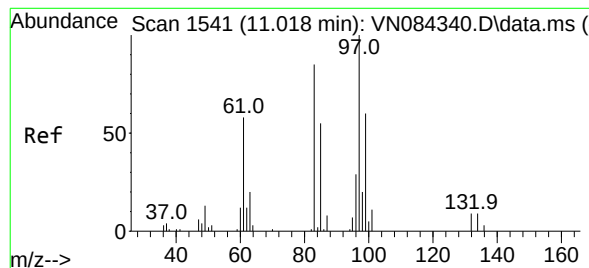
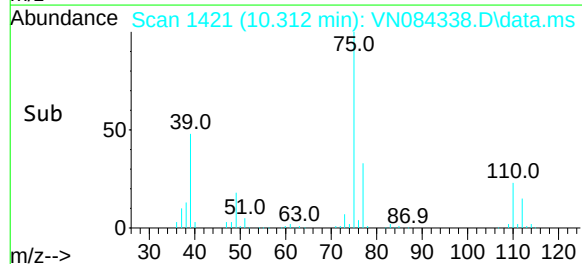
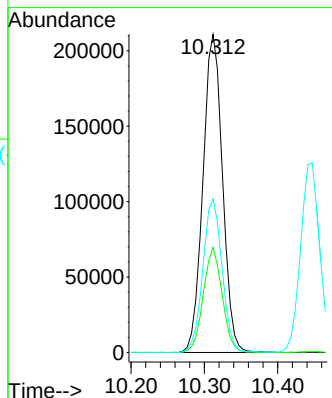
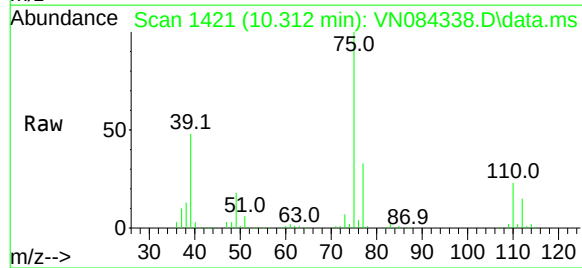
39 48.3 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#50

1,1,2-Trichloroethane

Concen: 98.758 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Tgt Ion: 97 Resp: 221414

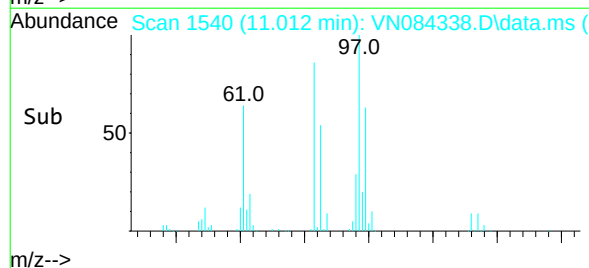
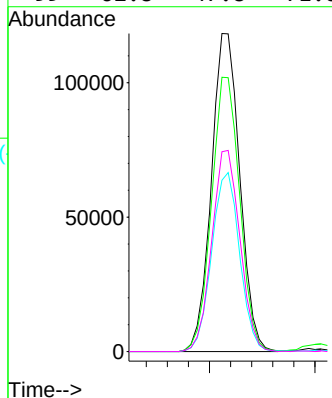
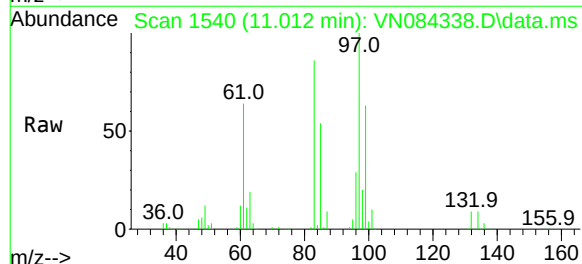
Ion Ratio Lower Upper

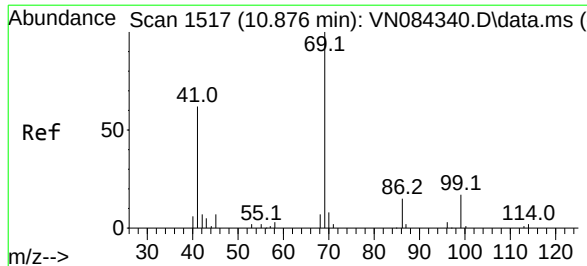
97 100

83 86.3 67.8 101.8

85 53.9 44.2 66.2

99 62.8 47.8 71.8





#51

Ethyl methacrylate

Concen: 105.601 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 69 Resp: 391063

Ion Ratio Lower Upper

69 100

41 68.0 30.9 92.7

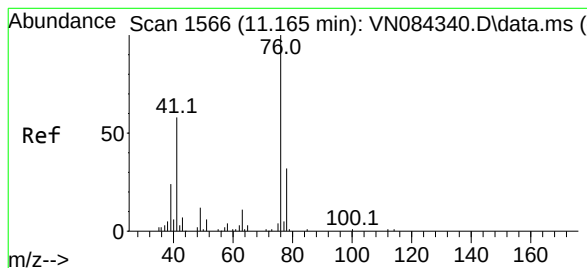
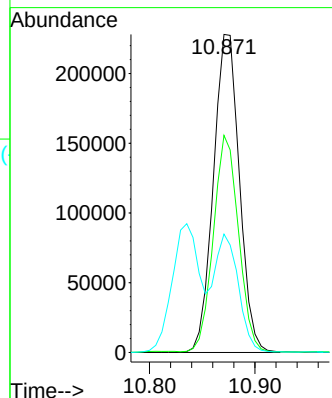
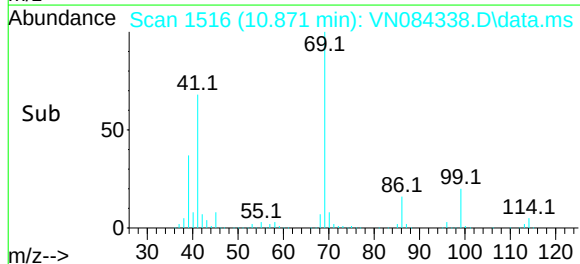
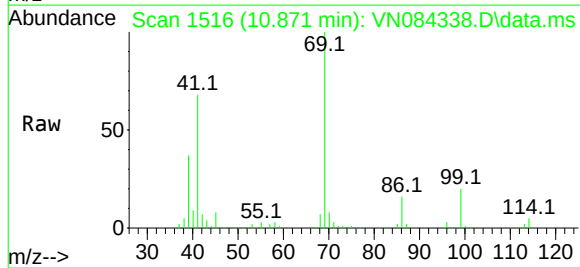
39 37.0 16.6 49.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#52

1,3-Dichloropropane

Concen: 98.740 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.006 min

Lab File: VN084338.D

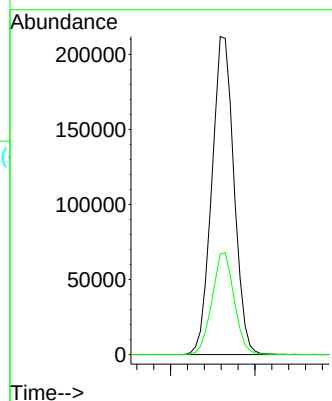
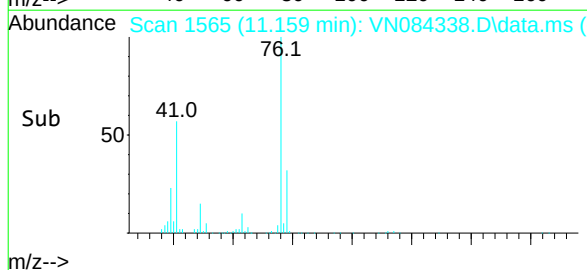
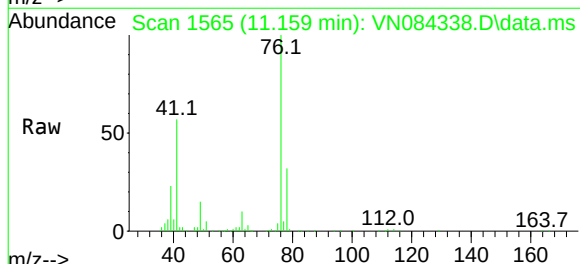
Acq: 08 Oct 2024 10:07

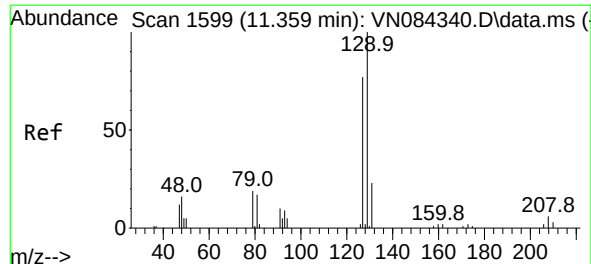
Tgt Ion: 76 Resp: 387077

Ion Ratio Lower Upper

76 100

78 32.0 0.0 64.2





#53

Dibromochloromethane

Concen: 99.925 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:129 Resp: 264647

Ion Ratio Lower Upper

129 100

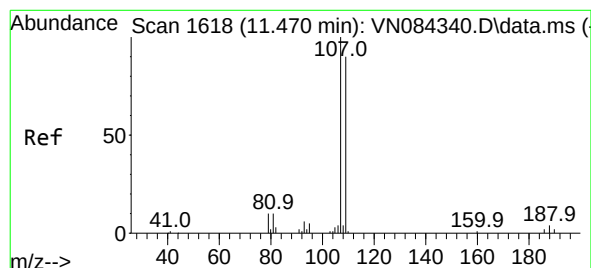
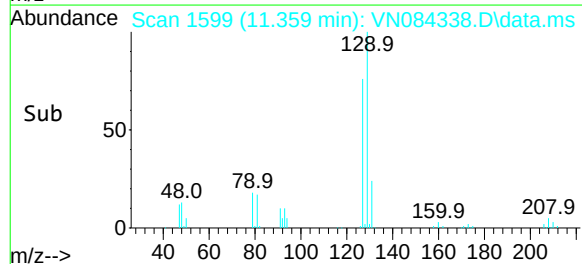
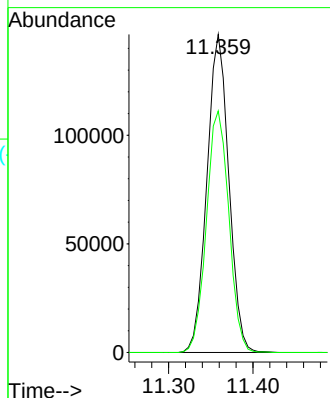
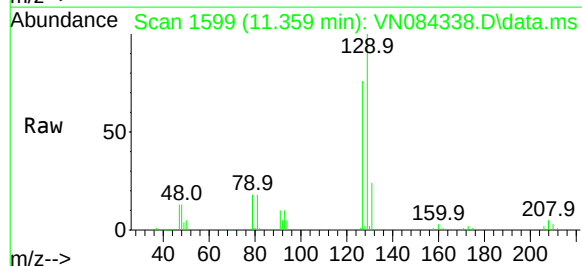
127 77.6 38.5 115.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#54

1,2-Dibromoethane

Concen: 99.892 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.006 min

Lab File: VN084338.D

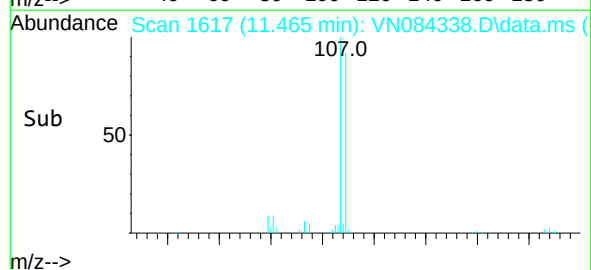
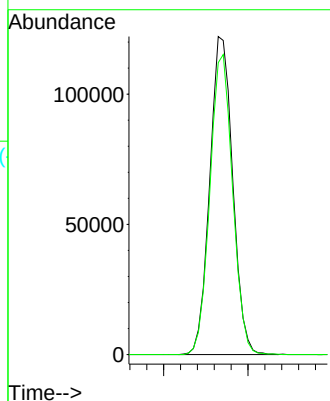
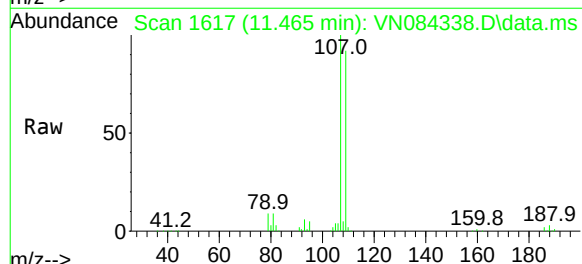
Acq: 08 Oct 2024 10:07

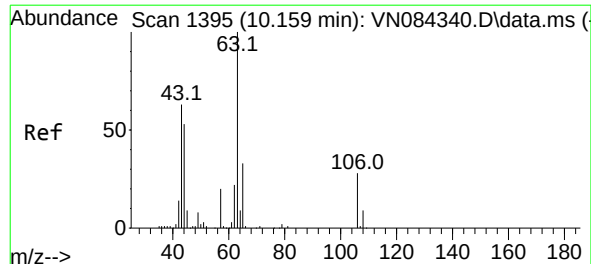
Tgt Ion:107 Resp: 230529

Ion Ratio Lower Upper

107 100

109 93.4 73.8 110.6





#55

2-Chloroethyl vinyl ether

Concen: 539.636 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 906371

Ion Ratio Lower Upper

63 100

65 32.1 25.6 38.4

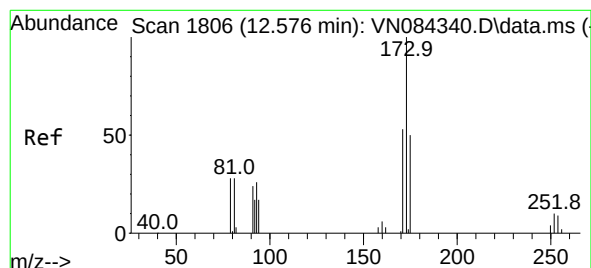
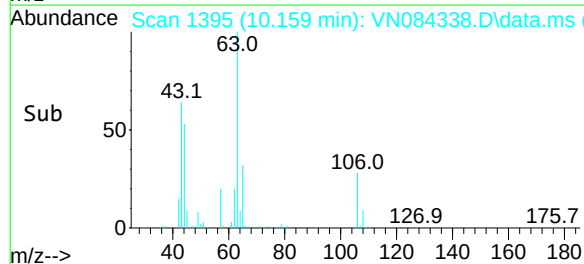
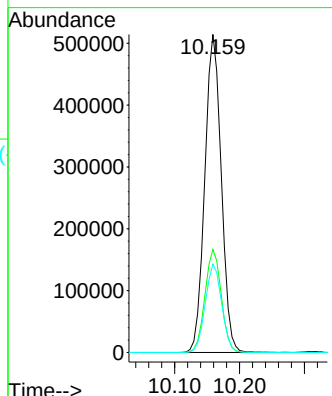
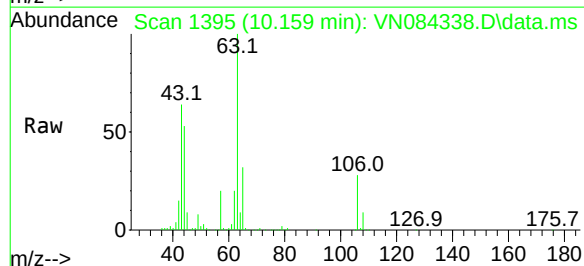
106 27.7 21.6 32.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#56

Bromoform

Concen: 103.603 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

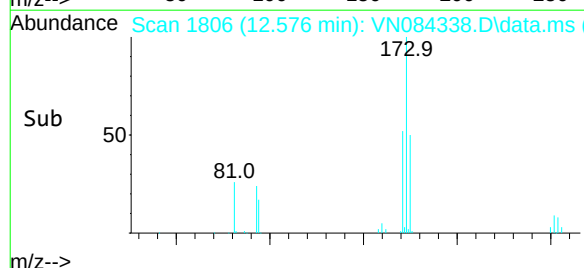
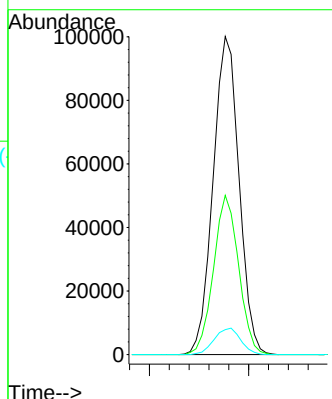
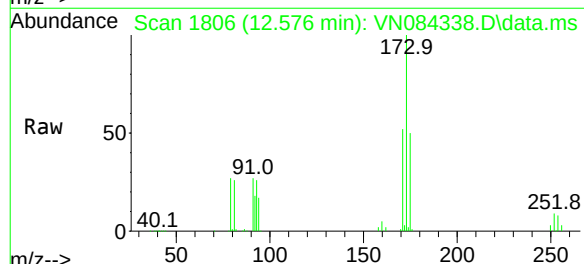
Tgt Ion:173 Resp: 181985

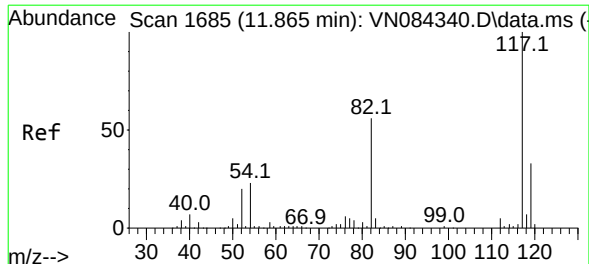
Ion Ratio Lower Upper

173 100

175 48.4 39.4 59.2

254 8.5 6.8 10.2





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

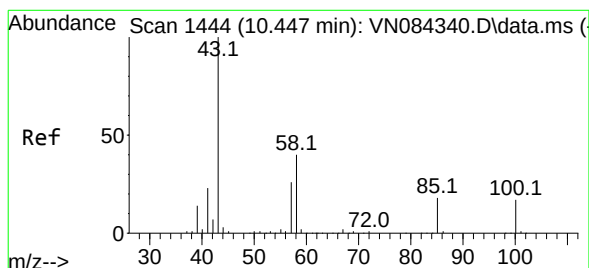
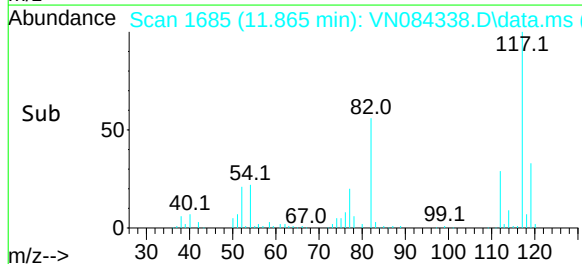
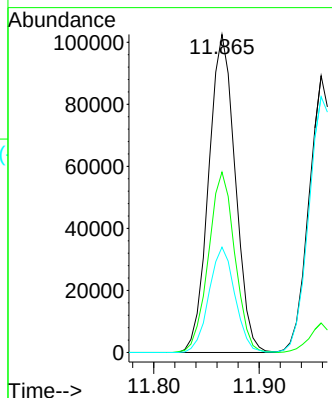
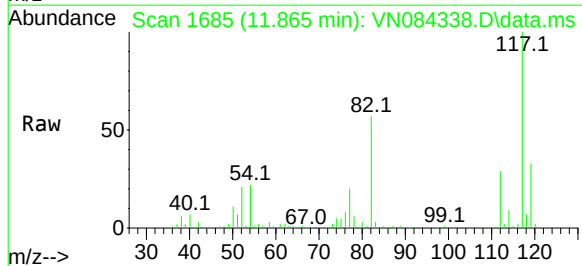
Tgt Ion:	117	Resp:	179975
Ion	Ratio	Lower	Upper
117	100		
82	56.1	46.2	69.4
119	32.3	25.4	38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#58

4-Methyl-2-Pentanone

Concen: 505.272 ug/l

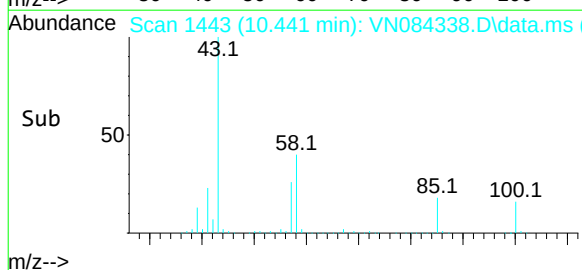
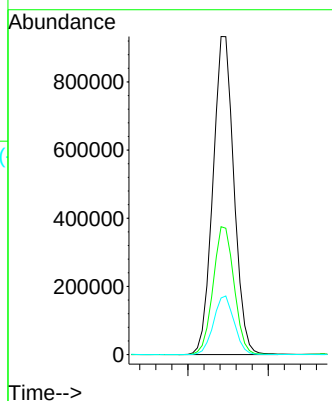
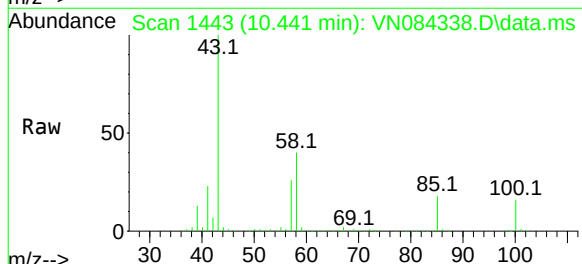
RT: 10.441 min Scan# 1443

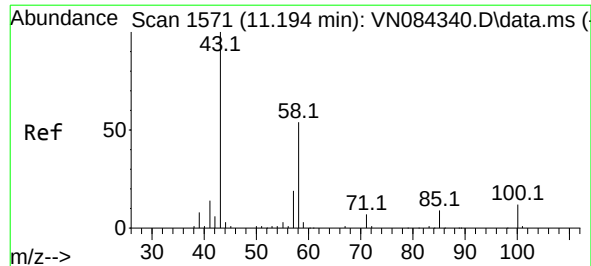
Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Tgt Ion:	43	Resp:	1693999
Ion	Ratio	Lower	Upper
43	100		
58	40.2	31.9	47.9
85	18.2	14.6	22.0





#59

2-Hexanone

Concen: 515.092 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 1283238

Ion Ratio Lower Upper

43 100

58 55.8 44.0 66.0

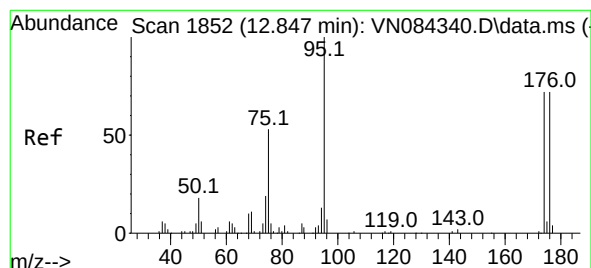
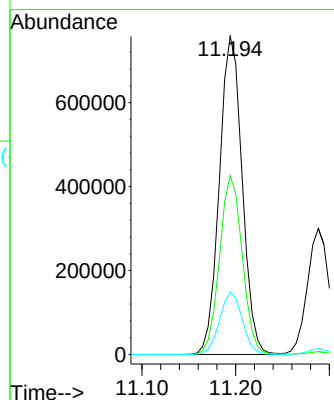
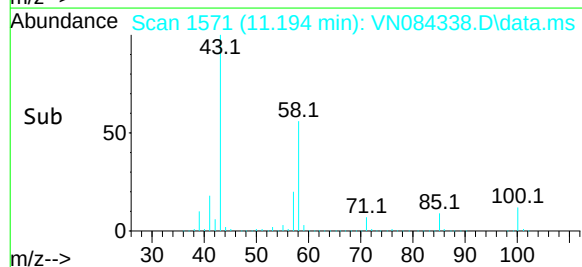
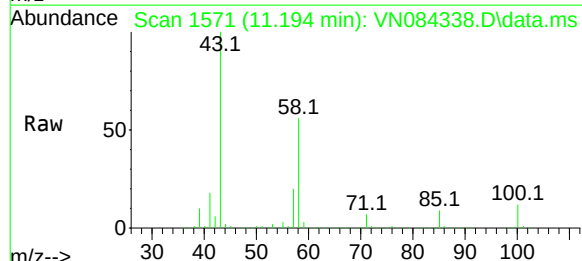
57 19.5 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#60

4-Bromofluorobenzene

Concen: 30.664 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

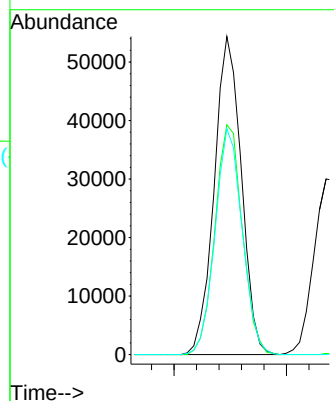
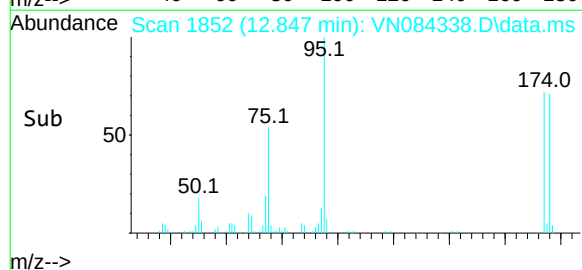
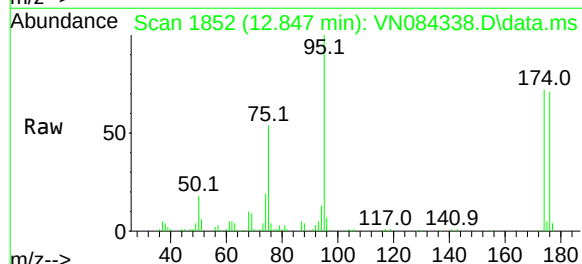
Tgt Ion: 95 Resp: 91083

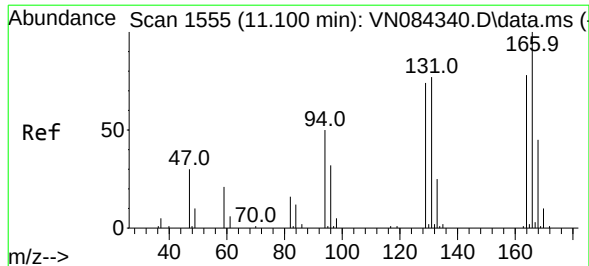
Ion Ratio Lower Upper

95 100

174 72.9 58.2 87.2

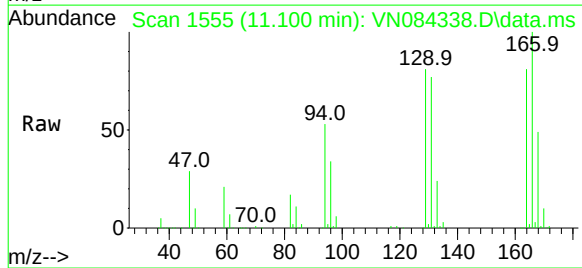
176 71.2 56.4 84.6





#61
Tetrachloroethene
Concen: 96.610 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

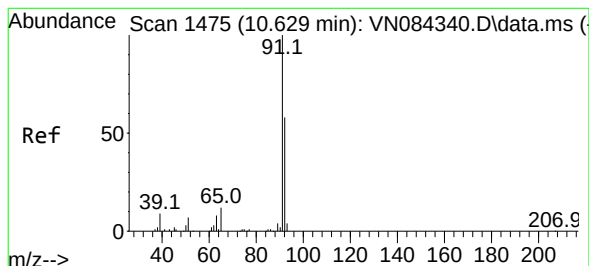
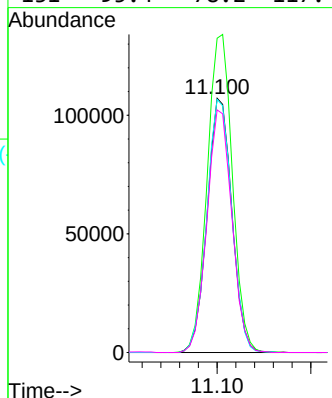
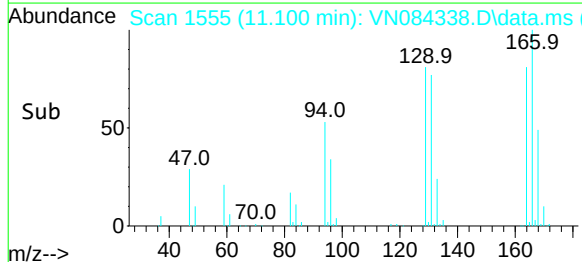
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 164 Resp: 196676
Ion Ratio Lower Upper
164 100
166 123.4 102.5 153.7
129 99.5 75.7 113.5
131 95.4 78.2 117.4

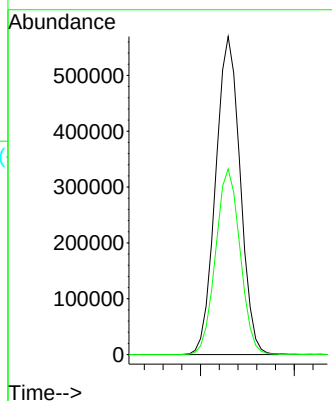
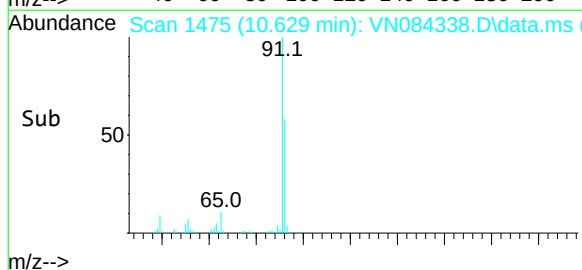
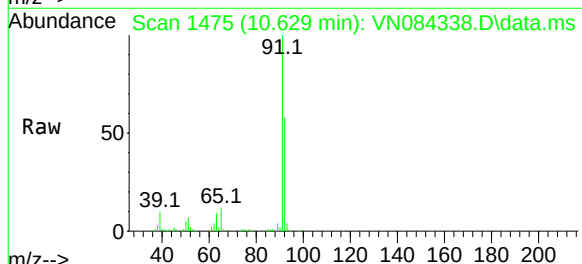
Manual Integrations
APPROVED

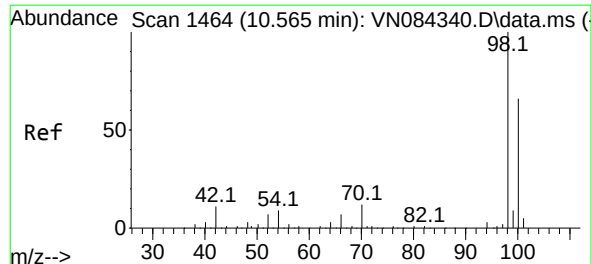
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#62
Toluene
Concen: 98.609 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084338.D
Acq: 08 Oct 2024 10:07

Tgt Ion: 91 Resp: 1038960
Ion Ratio Lower Upper
91 100
92 58.1 47.2 70.8





#63

Toluene-d8

Concen: 29.656 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 98 Resp: 247263

Ion Ratio Lower Upper

98 100

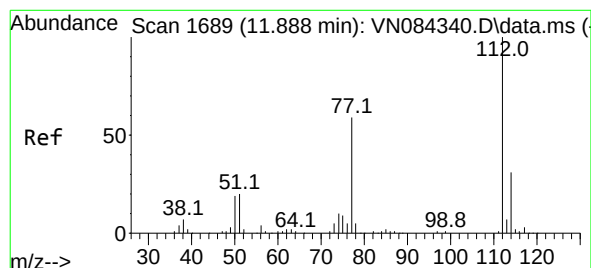
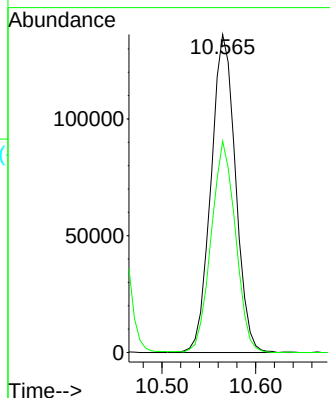
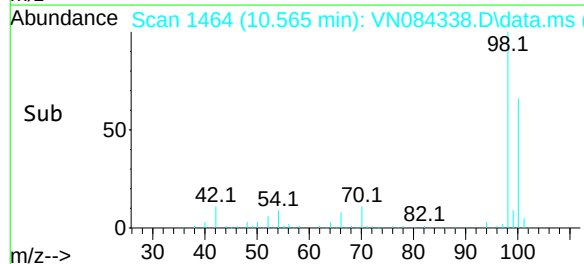
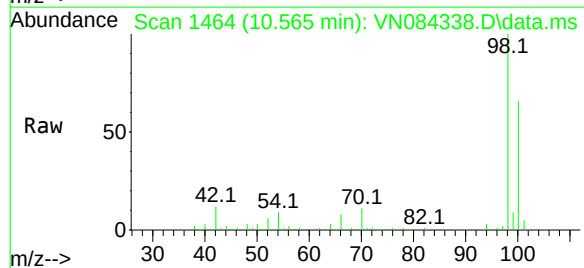
100 65.9 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#64

Chlorobenzene

Concen: 97.777 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084338.D

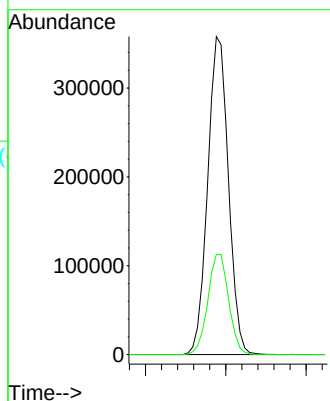
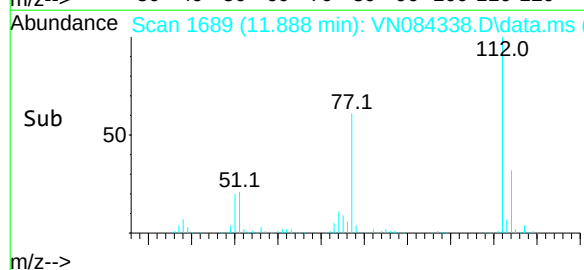
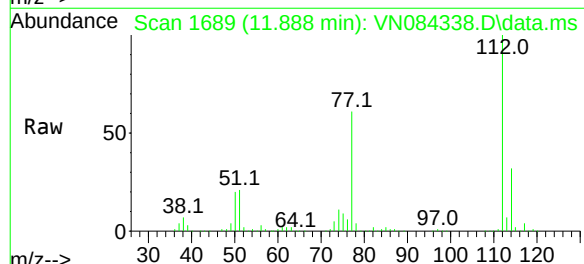
Acq: 08 Oct 2024 10:07

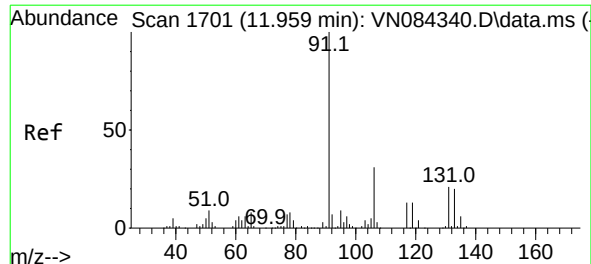
Tgt Ion:112 Resp: 641078

Ion Ratio Lower Upper

112 100

114 31.5 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 98.384 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:131 Resp: 224096

Ion Ratio Lower Upper

131 100

133 94.5 0.0 190.4

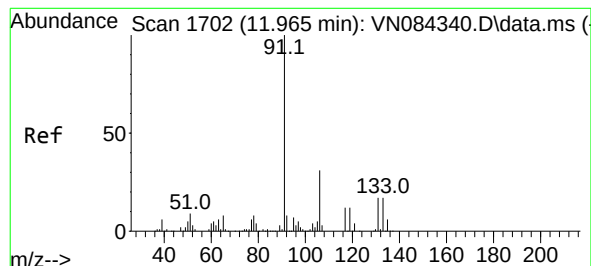
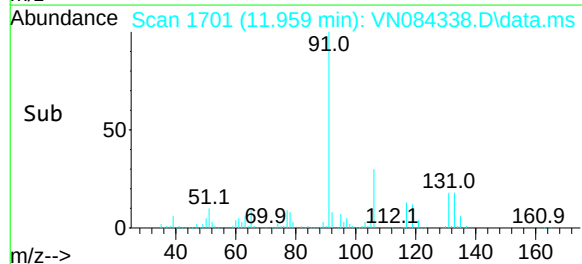
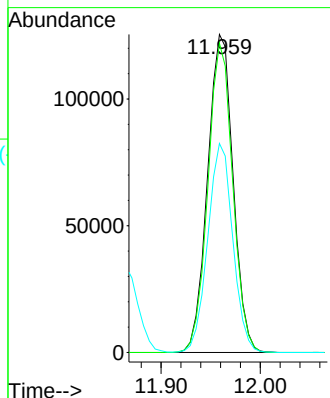
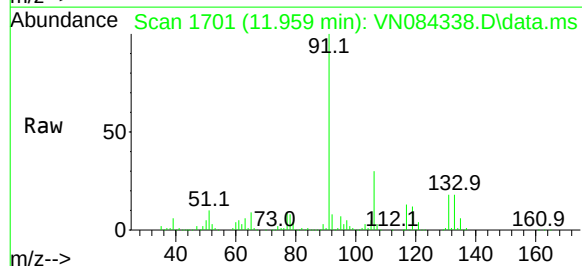
119 64.5 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#66

Ethyl Benzene

Concen: 103.195 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN084338.D

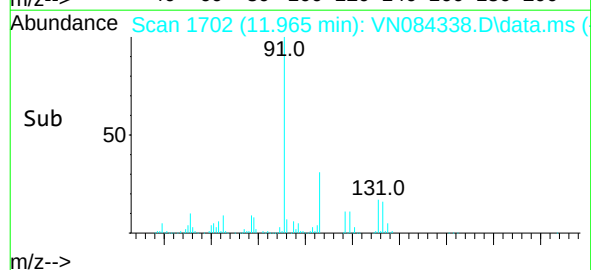
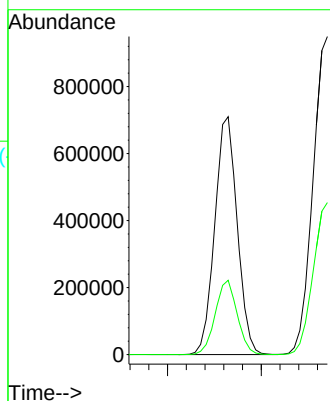
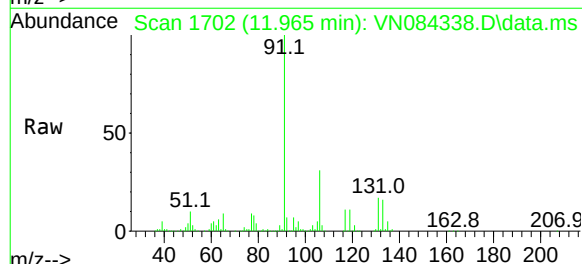
Acq: 08 Oct 2024 10:07

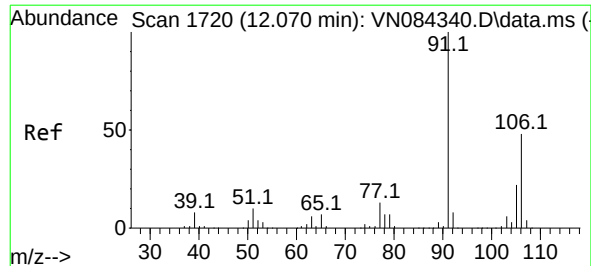
Tgt Ion: 91 Resp: 1181271

Ion Ratio Lower Upper

91 100

106 31.2 25.2 37.8





#67

m/p-Xylenes

Concen: 202.285 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 878405

Ion Ratio Lower Upper

106 100

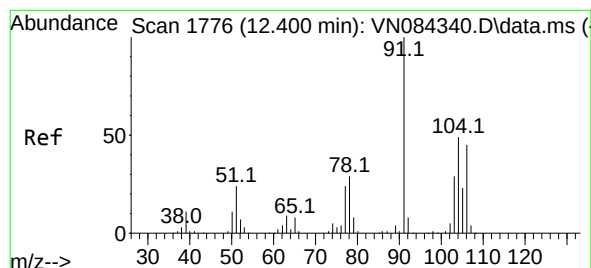
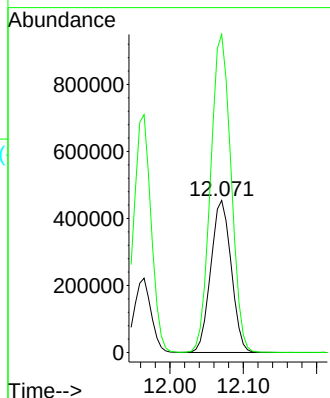
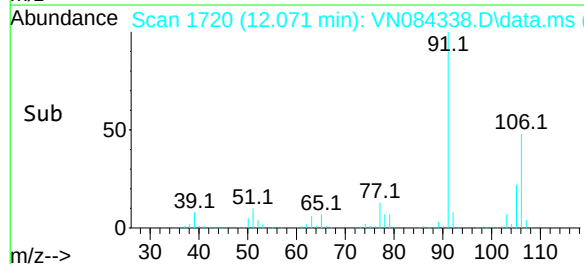
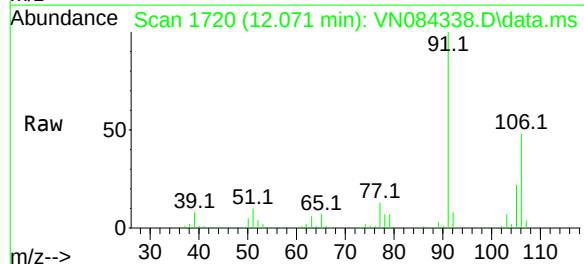
91 209.9 166.7 250.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#68

o-Xylene

Concen: 101.792 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN084338.D

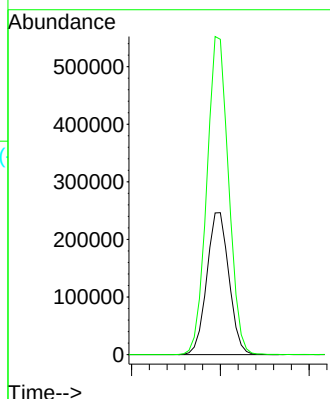
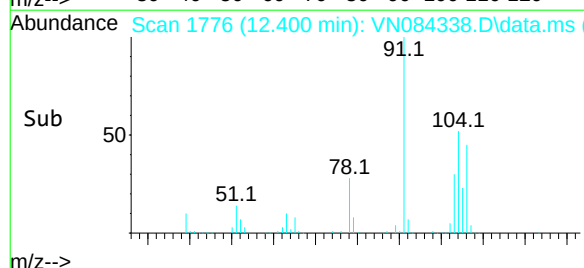
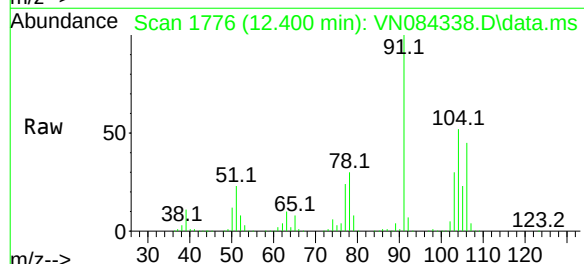
Acq: 08 Oct 2024 10:07

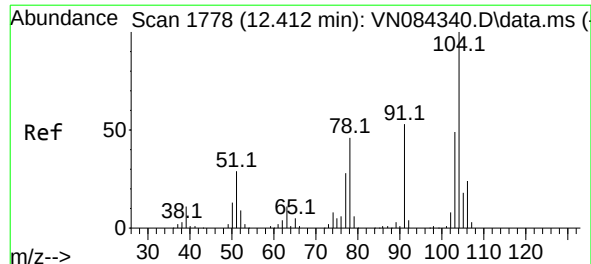
Tgt Ion:106 Resp: 426068

Ion Ratio Lower Upper

106 100

91 220.4 110.9 332.9





#69

Styrene

Concen: 102.854 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:104 Resp: 739030

Ion Ratio Lower Upper

104 100

78 52.2 41.6 62.4

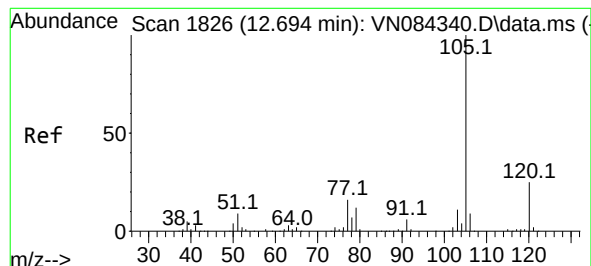
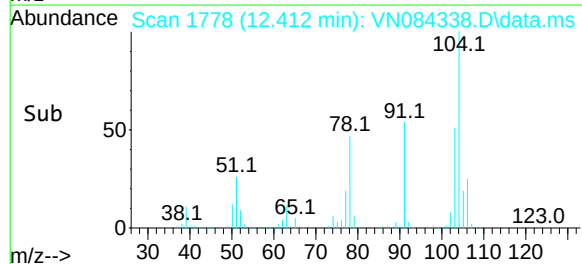
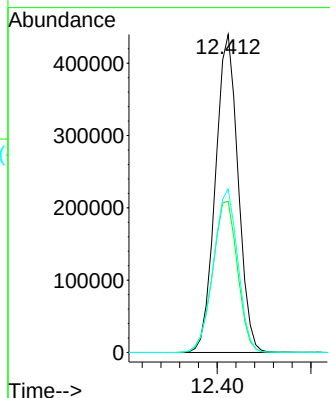
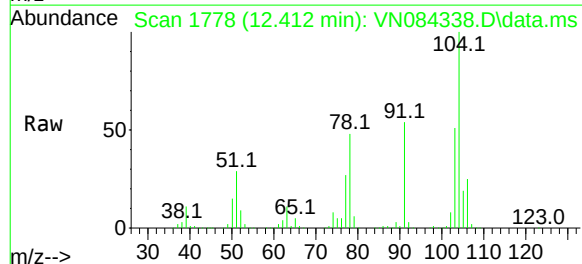
103 55.0 44.4 66.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#70

Isopropylbenzene

Concen: 102.602 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084338.D

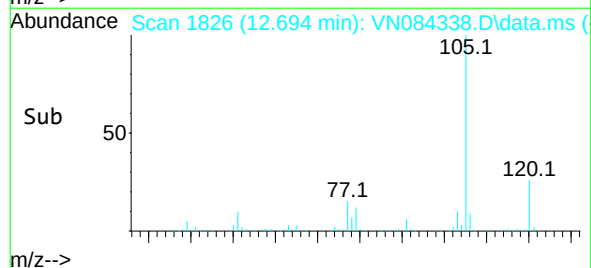
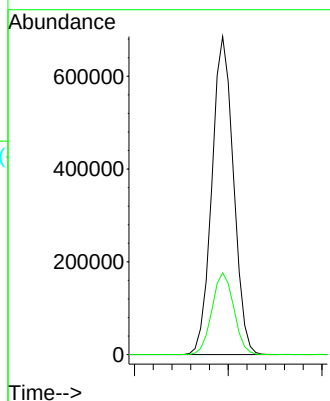
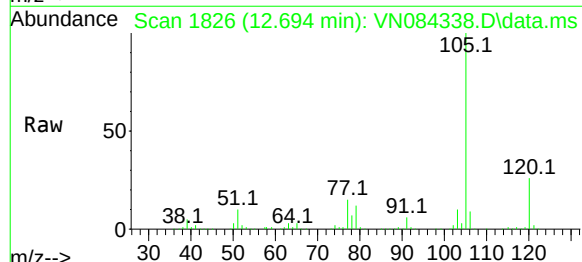
Acq: 08 Oct 2024 10:07

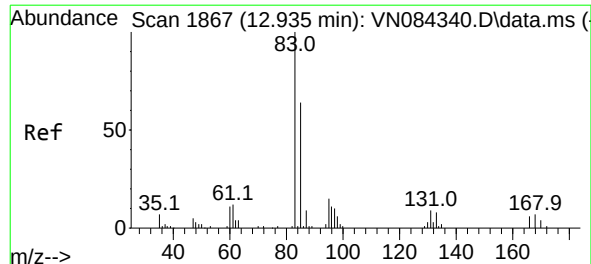
Tgt Ion:105 Resp: 1096352

Ion Ratio Lower Upper

105 100

120 26.0 17.4 32.4





#71

1,1,2,2-Tetrachloroethane

Concen: 98.744 ug/l

RT: 12.935 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

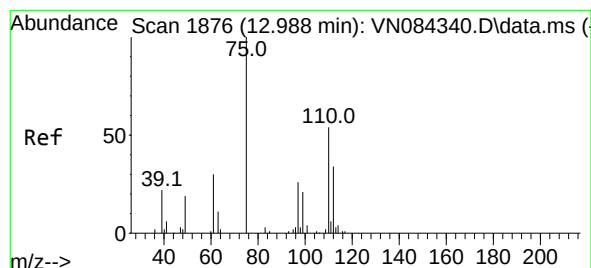
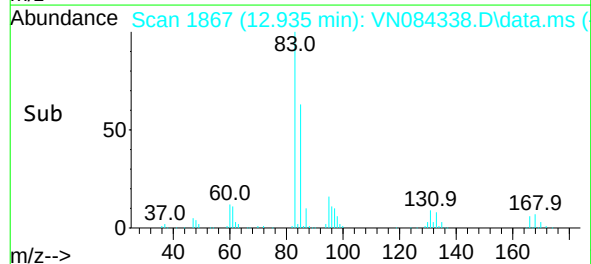
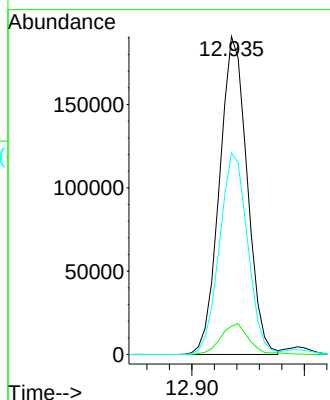
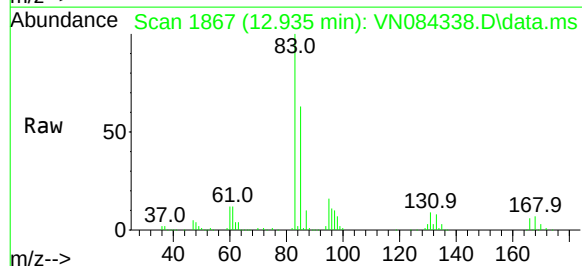
VSTDIC100

Tgt Ion:	83	Resp:	326404
Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.1	15.3
85	64.5	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#72

1,2,3-Trichloropropane

Concen: 99.846 ug/l m

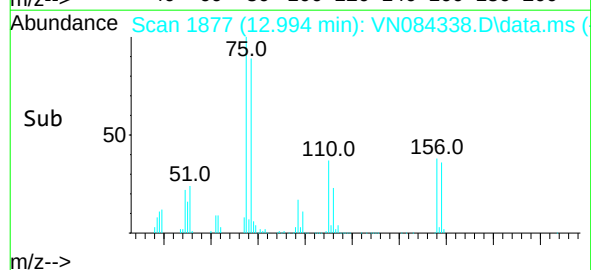
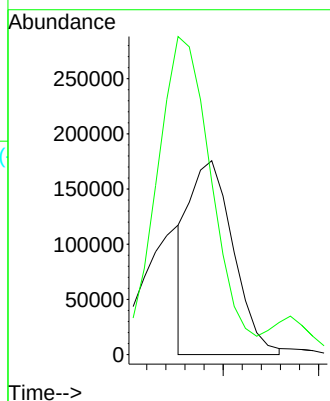
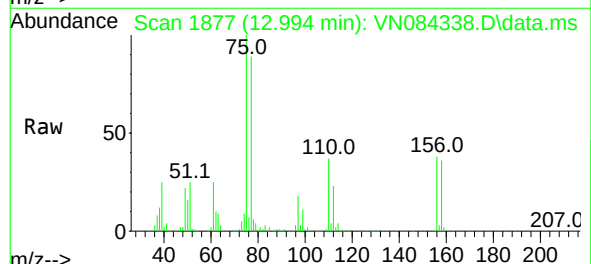
RT: 12.994 min Scan# 1877

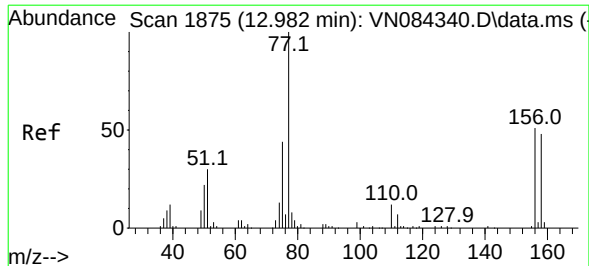
Delta R.T. 0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Tgt Ion:	75	Resp:	282274
Ion	Ratio	Lower	Upper
75	100		
77	205.1	0.0	414.0





#73

Bromobenzene

Concen: 99.991 ug/l

RT: 12.976 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN084338.D

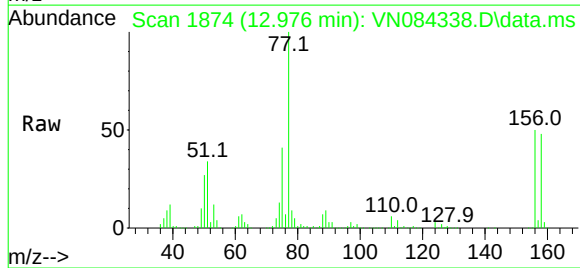
Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 156 Resp: 258761

Ion Ratio Lower Upper

156 100

77 223.7 0.0 451.0

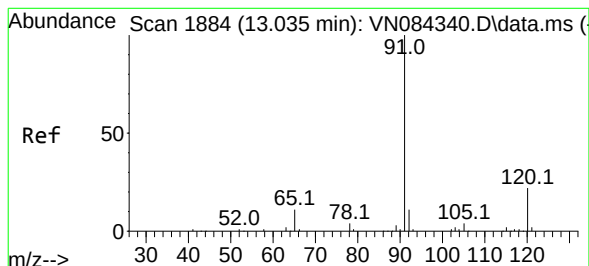
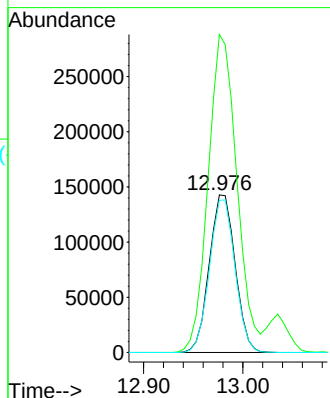
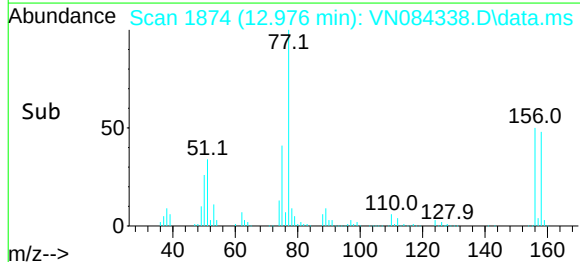
158 95.8 0.0 194.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#74

n-propylbenzene

Concen: 102.573 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084338.D

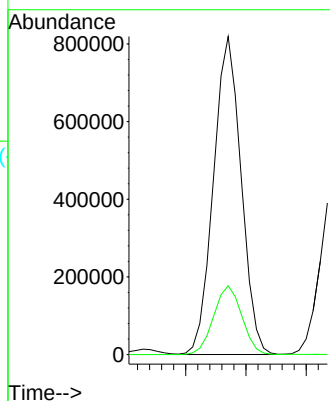
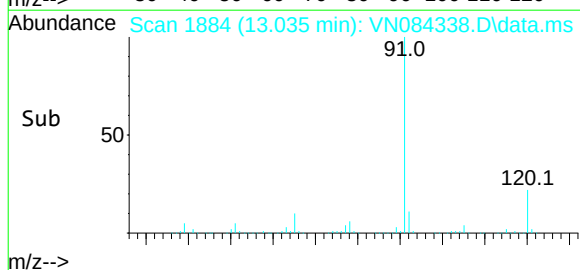
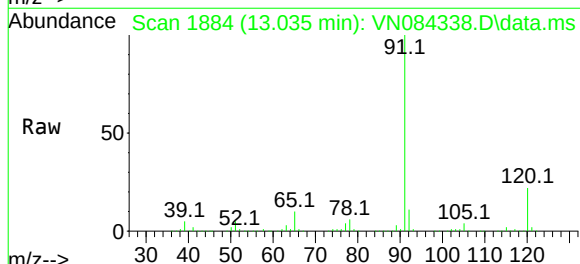
Acq: 08 Oct 2024 10:07

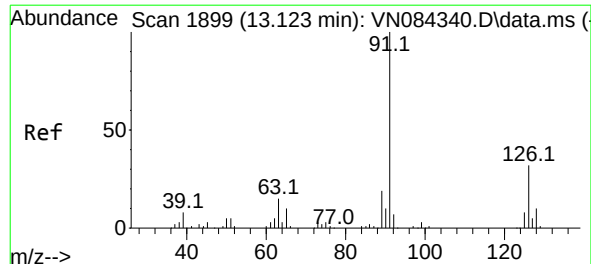
Tgt Ion: 91 Resp: 1306104

Ion Ratio Lower Upper

91 100

120 22.0 0.0 43.2





#75

2-Chlorotoluene

Concen: 100.748 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 797168

Ion Ratio Lower Upper

91 100

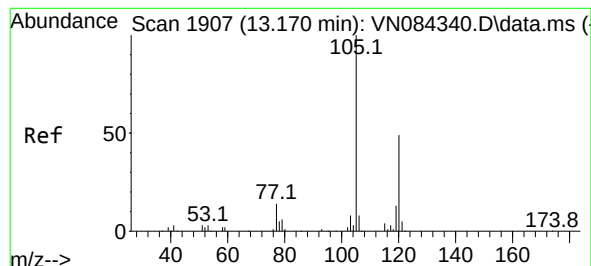
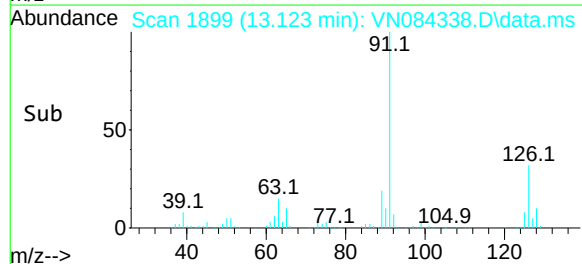
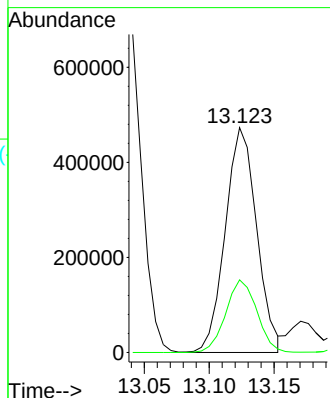
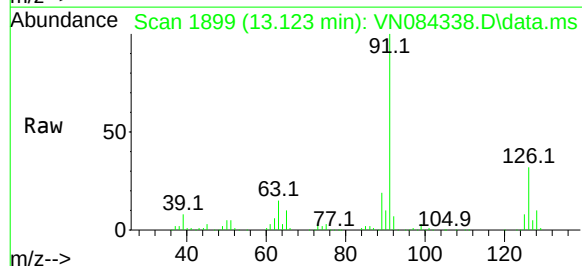
126 32.0 0.0 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#76

1,3,5-Trimethylbenzene

Concen: 102.861 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084338.D

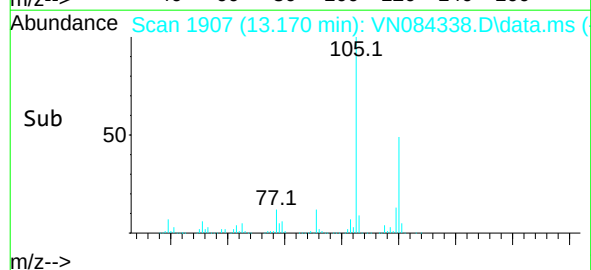
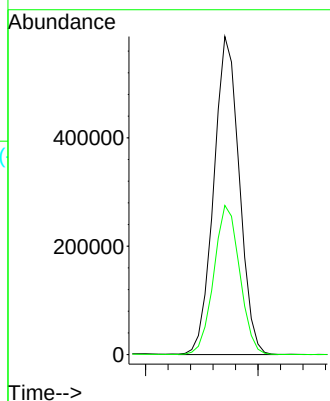
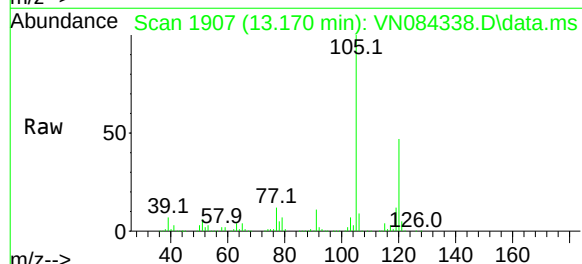
Acq: 08 Oct 2024 10:07

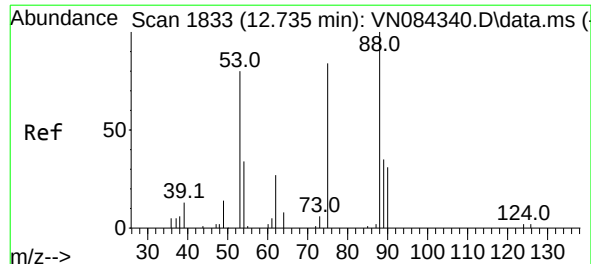
Tgt Ion:105 Resp: 925442

Ion Ratio Lower Upper

105 100

120 47.6 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 105.874 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN084338.D

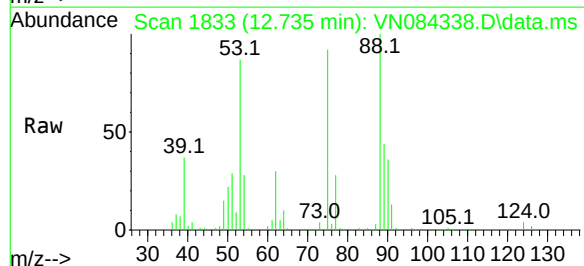
Acq: 08 Oct 2024 10:07

Instrument :

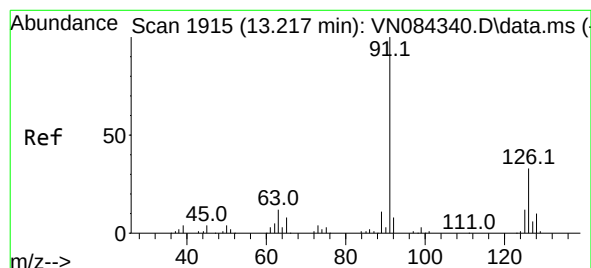
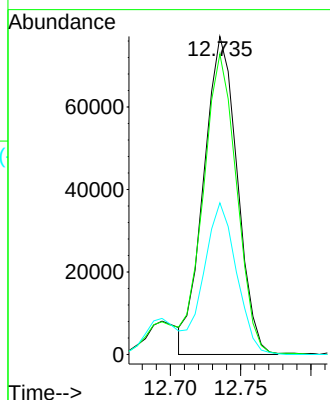
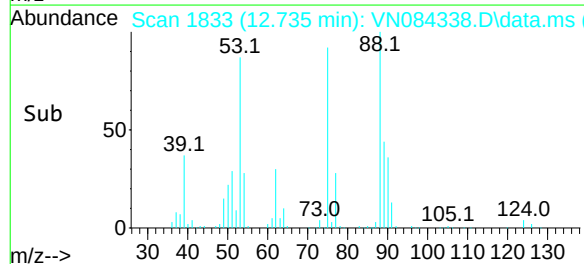
MSVOA_N

ClientSampleId :

VSTDIC100



Tgt Ion:	75	Resp:	128080
Ion	Ratio	Lower	Upper
75	100		
53	94.4	47.3	142.0
89	47.6	22.9	68.8

Manual Integrations
APPROVEDReviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

#78

4-Chlorotoluene

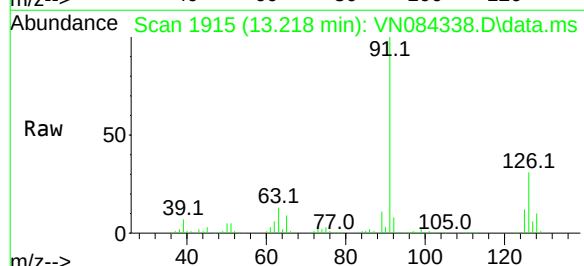
Concen: 100.932 ug/l

RT: 13.218 min Scan# 1915

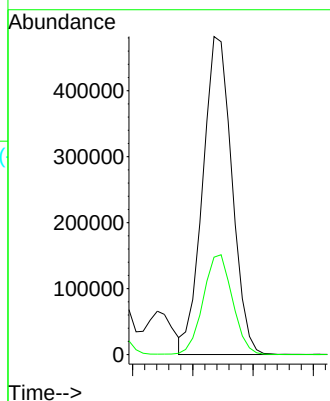
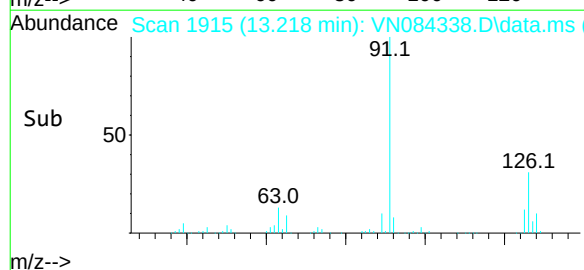
Delta R.T. 0.000 min

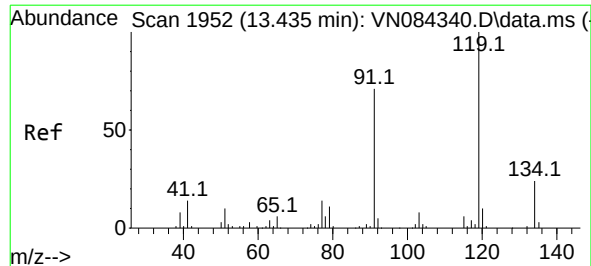
Lab File: VN084338.D

Acq: 08 Oct 2024 10:07



Tgt Ion:	91	Resp:	811956
Ion	Ratio	Lower	Upper
91	100		
126	31.6	0.0	62.4





#79

tert-butylbenzene

Concen: 103.950 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 797896

Ion Ratio Lower Upper

119 100

91 68.0 0.0 138.0

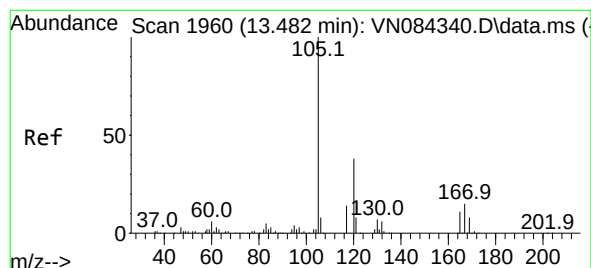
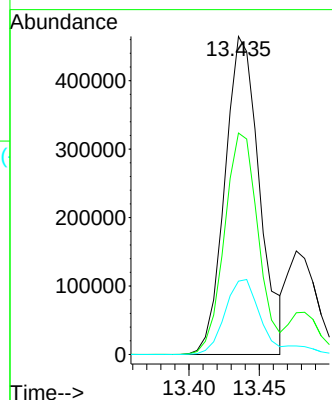
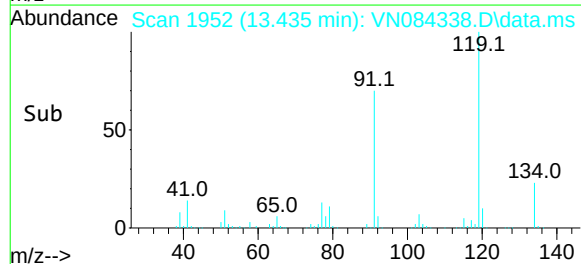
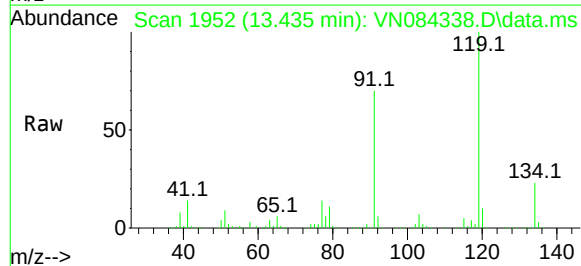
134 23.4 0.0 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#80

1,2,4-Trimethylbenzene

Concen: 102.973 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084338.D

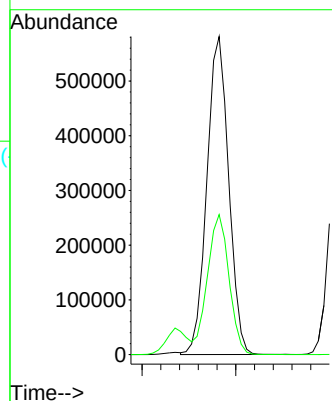
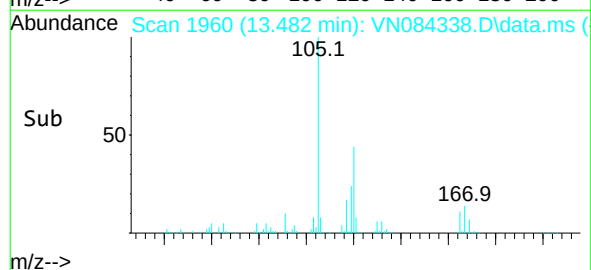
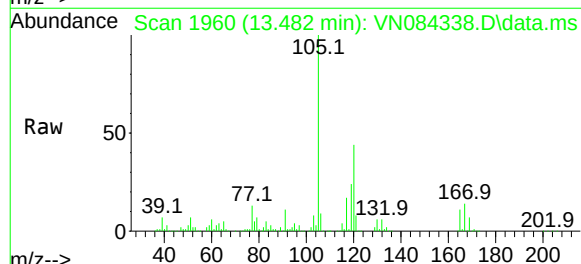
Acq: 08 Oct 2024 10:07

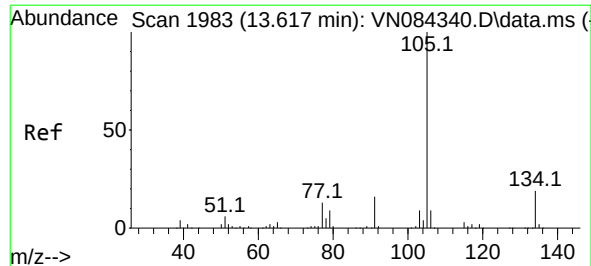
Tgt Ion:105 Resp: 940023

Ion Ratio Lower Upper

105 100

120 43.7 0.0 88.8





#81

sec-Butylbenzene

Concen: 103.955 ug/l

RT: 13.618 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 1098551

Ion Ratio Lower Upper

105 100

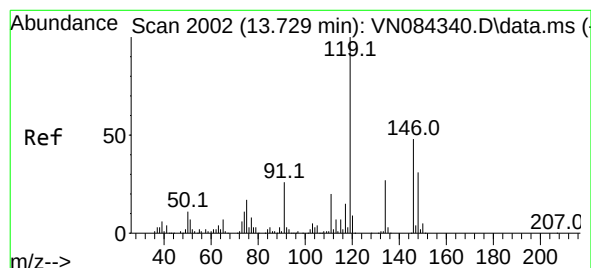
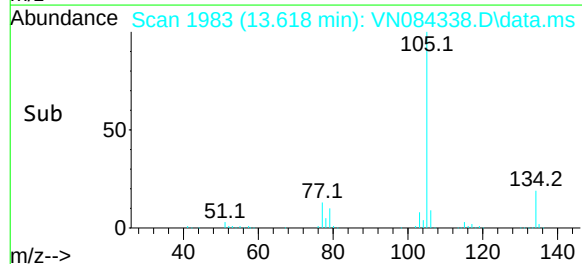
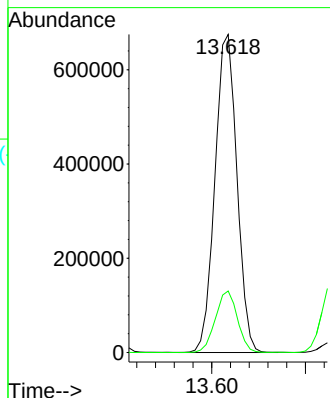
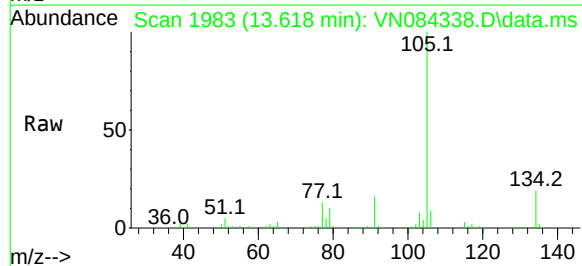
134 19.3 0.0 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#82

p-Isopropyltoluene

Concen: 104.480 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

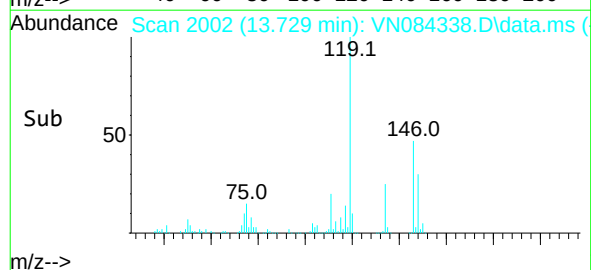
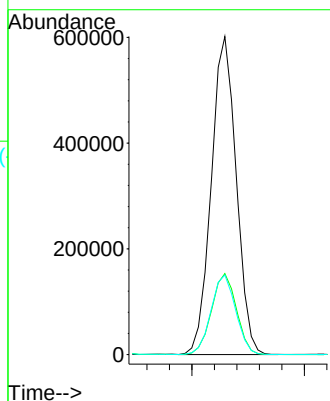
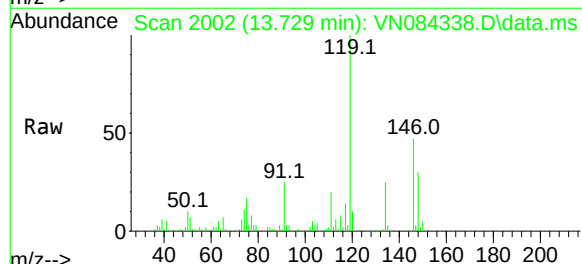
Tgt Ion:119 Resp: 929312

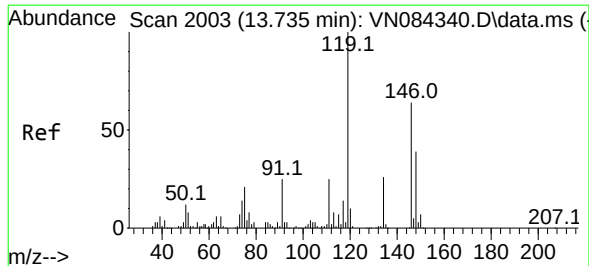
Ion Ratio Lower Upper

119 100

134 25.4 0.0 50.2

91 24.8 0.0 50.6





#83

1,3-Dichlorobenzene

Concen: 101.078 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

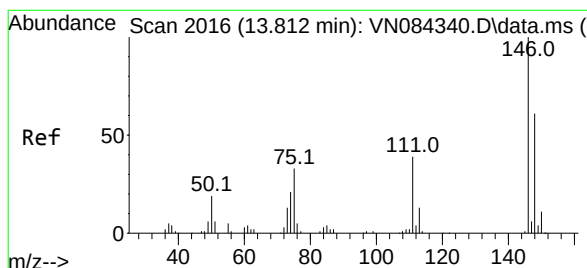
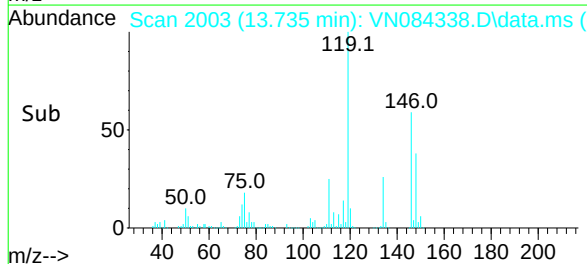
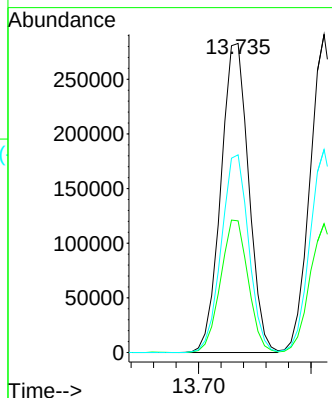
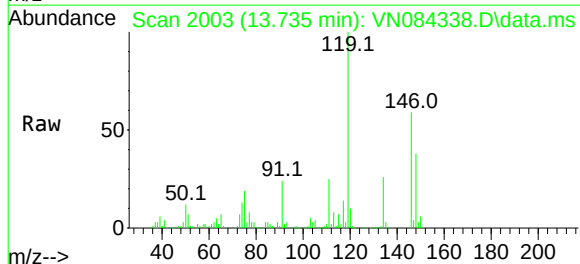
ClientSampleId :

VSTDICC100

Tgt Ion:	146	Resp:	486367
Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.6	61.9
148	63.0	31.6	94.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#84

1,4-Dichlorobenzene

Concen: 101.080 ug/l

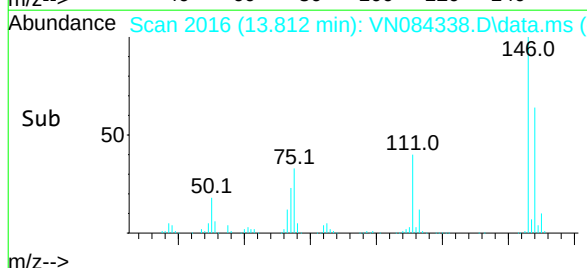
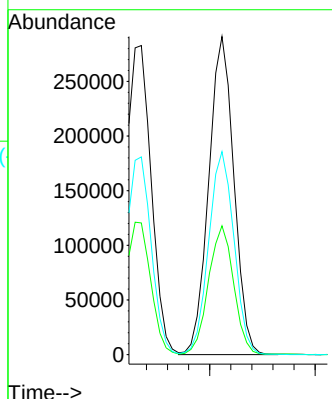
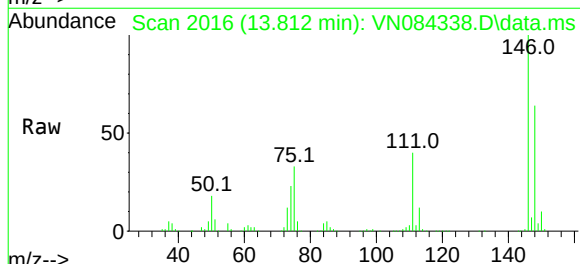
RT: 13.812 min Scan# 2016

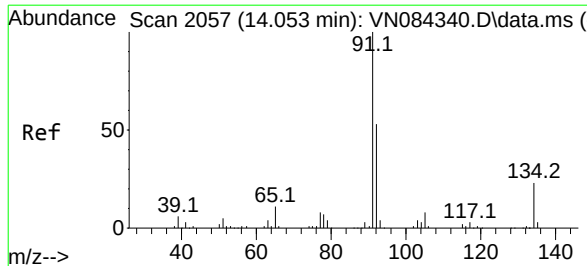
Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Tgt Ion:	146	Resp:	482980
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.5	61.5
148	64.2	32.5	97.4





#85

n-Butylbenzene

Concen: 106.755 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 822416

Ion Ratio Lower Upper

91 100

92 53.9 0.0 103.4

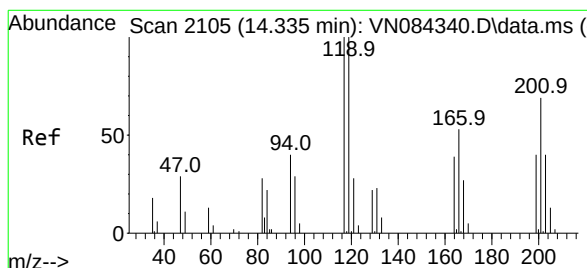
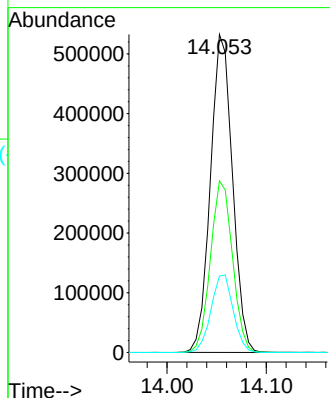
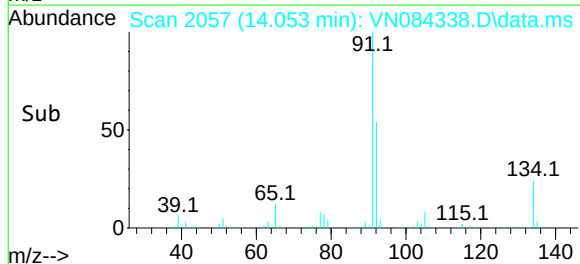
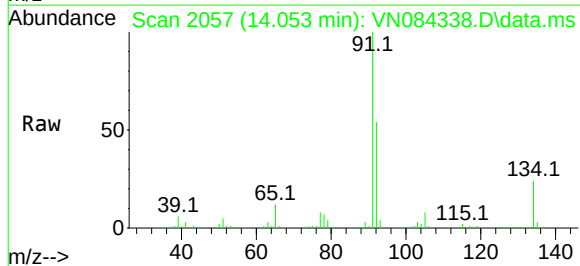
134 24.6 0.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#86

Hexachloroethane

Concen: 101.121 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN084338.D

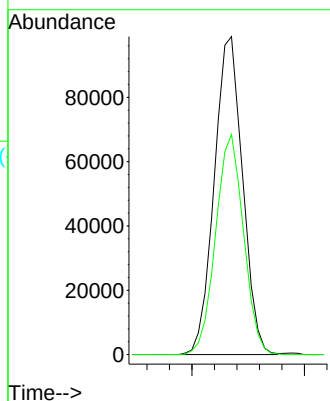
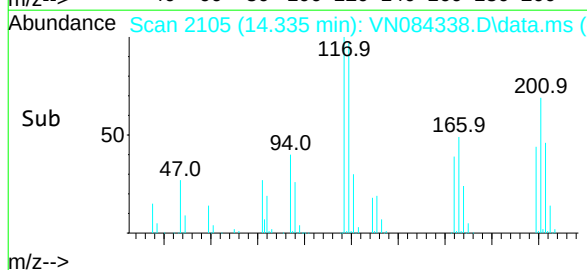
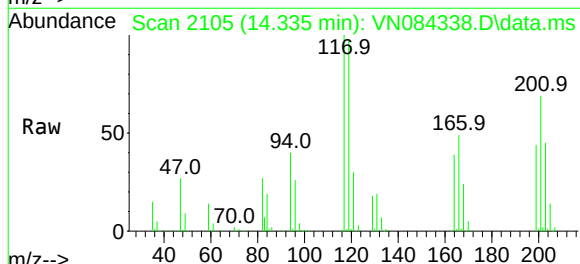
Acq: 08 Oct 2024 10:07

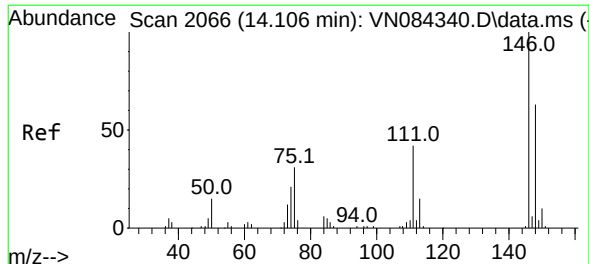
Tgt Ion:117 Resp: 173285

Ion Ratio Lower Upper

117 100

201 67.9 33.9 101.6





#87

1,2-Dichlorobenzene

Concen: 100.954 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

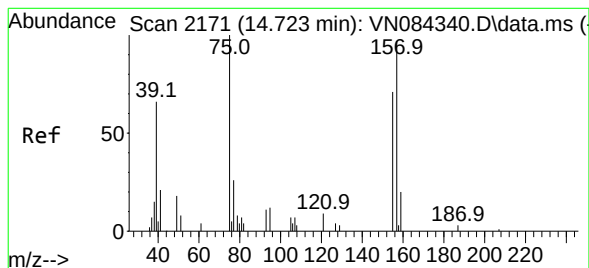
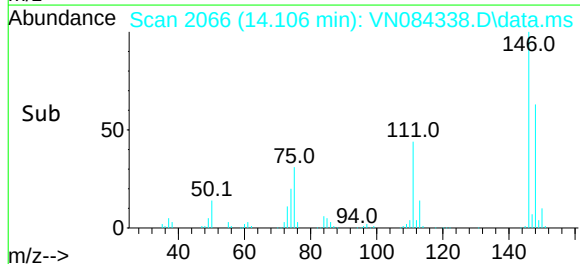
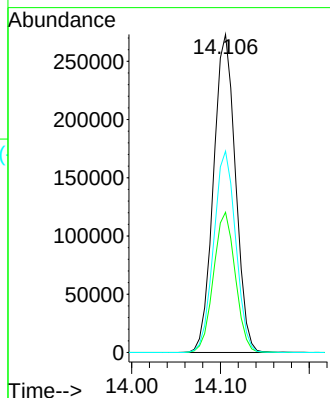
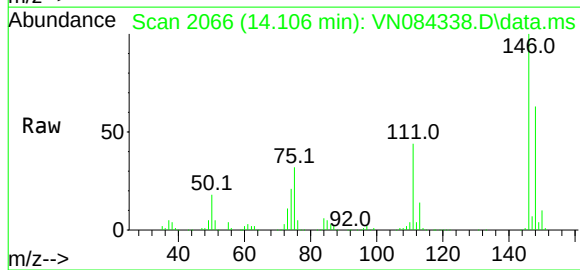
ClientSampleId :

VSTDICC100

Tgt Ion:	146	Resp:	469667
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.9	65.5
148	63.4	31.1	93.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 103.123 ug/l

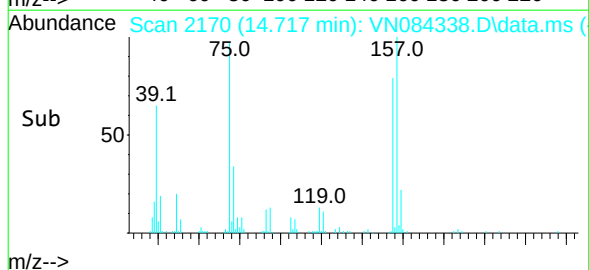
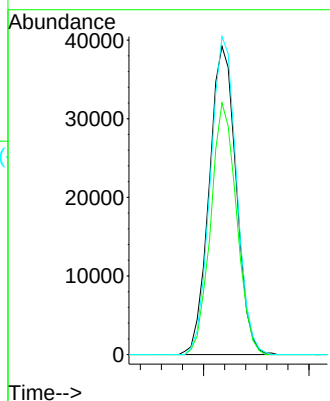
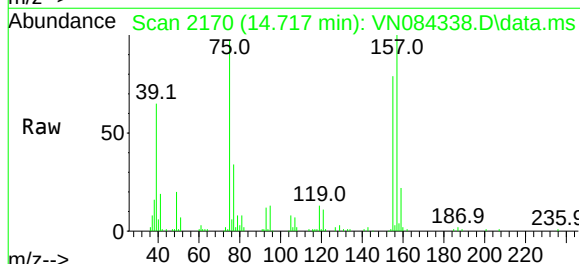
RT: 14.717 min Scan# 2170

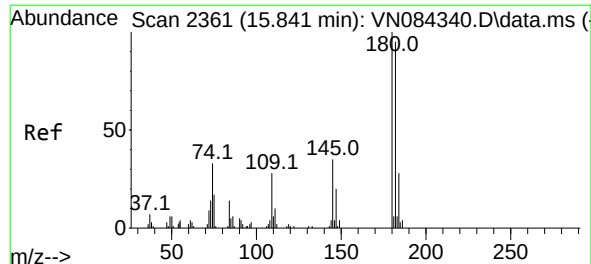
Delta R.T. -0.006 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Tgt Ion:	75	Resp:	69709
Ion	Ratio	Lower	Upper
75	100		
155	77.9	61.8	92.8
157	99.8	77.4	116.0





#89

1,2,4-Trichlorobenzene

Concen: 103.221 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

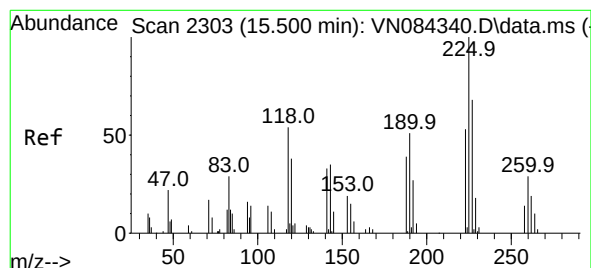
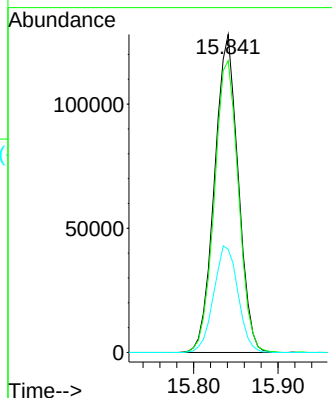
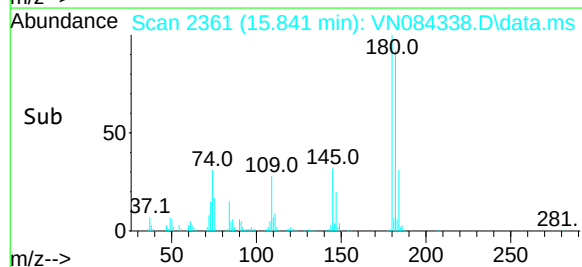
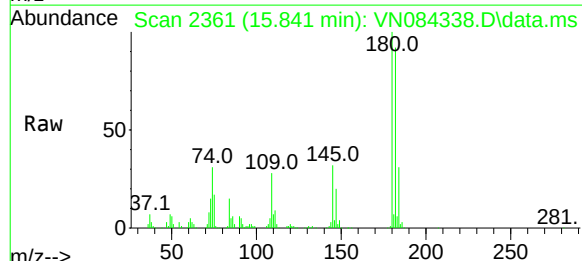
ClientSampleId :

VSTDICC100

Tgt Ion:	180	Resp:	249678
Ion	Ratio	Lower	Upper
180	100		
182	93.4	77.8	116.6
145	34.4	28.9	43.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#90

Hexachlorobutadiene

Concen: 94.981 ug/l

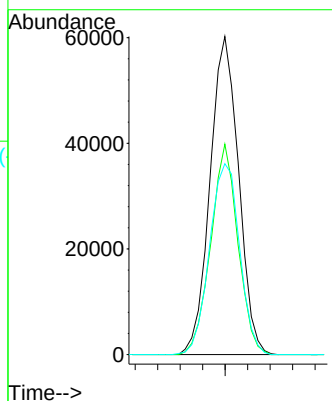
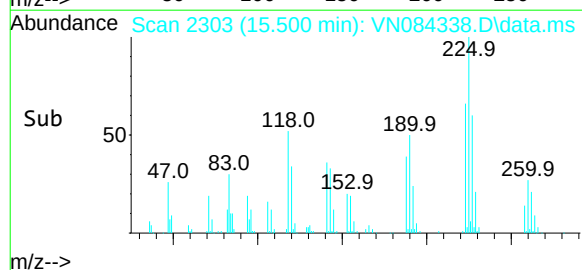
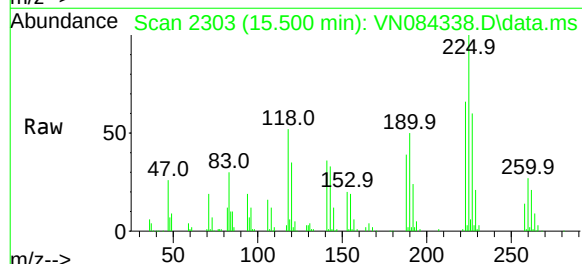
RT: 15.500 min Scan# 2303

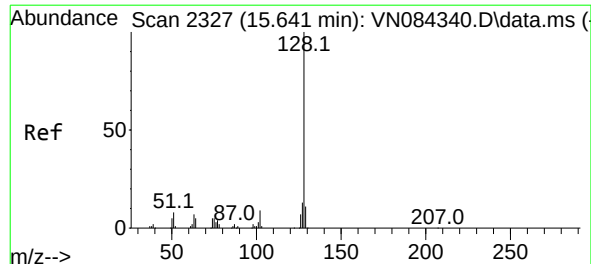
Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Tgt Ion:	225	Resp:	106287
Ion	Ratio	Lower	Upper
225	100		
223	62.8	0.0	124.0
227	63.1	0.0	130.8





#91

Naphthalene

Concen: 108.388 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:128 Resp: 888428

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

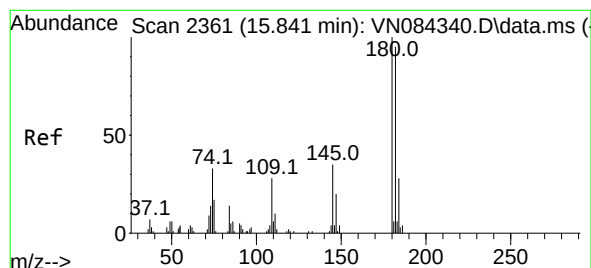
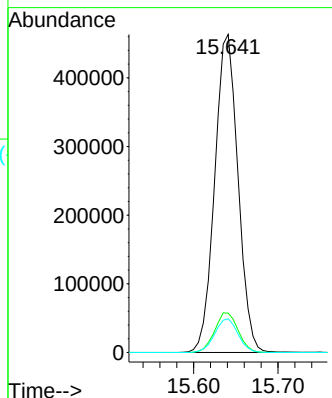
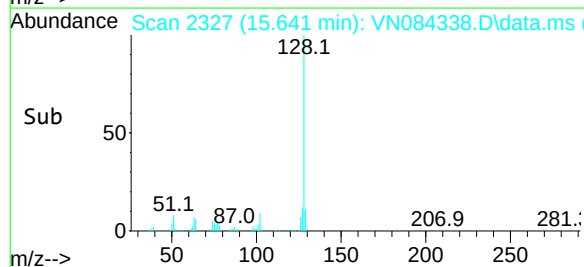
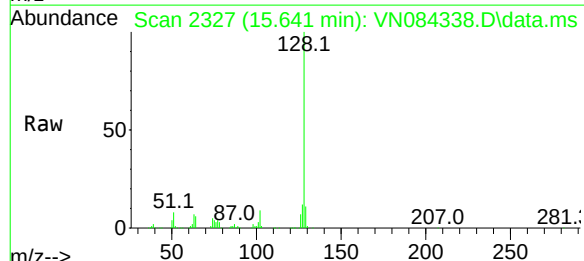
129 10.6 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 103.221 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN084338.D

Acq: 08 Oct 2024 10:07

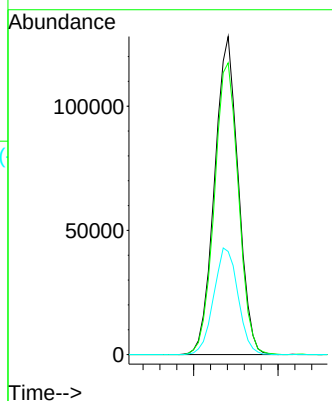
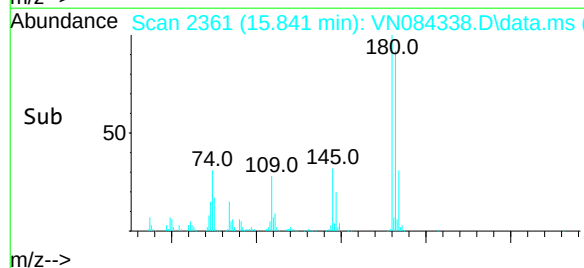
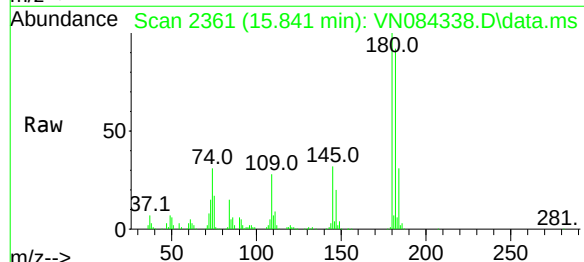
Tgt Ion:180 Resp: 249678

Ion Ratio Lower Upper

180 100

182 93.4 0.0 194.4

145 34.4 0.0 72.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084339.D
 Acq On : 08 Oct 2024 10:31
 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 : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:07:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	35466	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	196182	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	180971	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	84072	29.444	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.133%		
60) 4-Bromofluorobenzene	12.847	95	90206	30.202	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.667%		
63) Toluene-d8	10.565	98	249414	29.750	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.167%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	104507	48.263	ug/l	96
3) Chloromethane	2.359	50	119618	48.544	ug/l	99
4) Vinyl Chloride	2.512	62	118532	49.052	ug/l	93
5) Bromomethane	2.947	94	73816	46.107	ug/l	98
6) Chloroethane	3.118	64	72586	45.819	ug/l	95
7) Trichlorofluoromethane	3.495	101	192447	48.893	ug/l	94
8) Diethyl Ether	3.959	74	72484	50.089	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	106319	48.040	ug/l	98
10) 1,1-Dichloroethene	4.342	96	110533	50.053	ug/l	89
11) Methyl Iodide	4.589	142	146194	50.376	ug/l	97
12) Methyl Acetate	5.024	43	143947	52.068	ug/l	95
13) Acrolein	4.177	56	127301	247.880	ug/l	99
14) Acrylonitrile	5.718	53	314551	253.254	ug/l	98
15) Acetone	4.430	58	90377	254.725	ug/l	96
16) Carbon Disulfide	4.712	76	316013	48.056	ug/l	98
17) Allyl chloride	5.024	41	179722	50.205	ug/l	93
18) Methylene Chloride	5.277	84	123536	49.660	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	115099	49.248	ug/l	89
20) Diisopropyl ether	6.671	45	387668	50.368	ug/l	96
21) 1,1-Dichloroethane	6.571	63	216289	48.975	ug/l	96
22) cis-1,2-Dichloroethene	7.488	96	135603	49.862	ug/l	100
23) tert-Butyl Alcohol	5.524	59	121932	255.936	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	371557m	50.347	ug/l	
25) Chloroform	7.965	83	224326	50.153	ug/l	99
26) Cyclohexane	8.259	56	182672	49.456	ug/l #	97
29) 1,1-Dichloropropene	8.371	75	159132	49.412	ug/l	99
30) 2-Butanone	7.482	43	438443	255.703	ug/l	99
31) 2,2-Dichloropropane	7.488	77	186163	49.191	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	202531	49.200	ug/l	99
33) Carbon Tetrachloride	8.359	117	173775	48.728	ug/l	94
34) Benzene	8.606	78	494102	49.013	ug/l	96
35) Methacrylonitrile	7.777	41	94562	51.695	ug/l	96
36) 1,2-Dichloroethane	8.671	62	165947	49.385	ug/l	100
37) Trichloroethene	9.353	130	112853	48.615	ug/l	98
38) Methylcyclohexane	9.600	83	175023	49.477	ug/l	99
39) 1,2-Dichloropropane	9.618	63	118717	48.292	ug/l	98
40) Dibromomethane	9.706	93	84017	48.900	ug/l	98
41) Bromodichloromethane	9.888	83	179758	49.283	ug/l	92
42) Vinyl Acetate	6.606	43	1520354	254.948	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084339.D
 Acq On : 08 Oct 2024 10:31
 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 : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:07:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	168929	49.954	ug/l	94
44) Isopropyl Acetate	8.688	43	281915	50.934	ug/l	99
45) 1,4-Dioxane	9.694	88	51791	1038.003	ug/l	95
46) Methyl methacrylate	9.682	41	137372	51.368	ug/l	98
47) n-amyl Acetate	12.494	43	251442	51.073	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	187402	49.721	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	197144	49.908	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	114315	49.500	ug/l	98
51) Ethyl methacrylate	10.871	69	198002	51.907	ug/l	96
52) 1,3-Dichloropropane	11.165	76	198343	49.119	ug/l	99
53) Dibromochloromethane	11.359	129	135901	49.816	ug/l	99
54) 1,2-Dibromoethane	11.470	107	118129	49.693	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	439901	254.264	ug/l	99
56) Bromoform	12.576	173	90199	49.851	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	864518	256.442	ug/l	100
59) 2-Hexanone	11.194	43	654698	261.350	ug/l	100
61) Tetrachloroethene	11.100	164	100050	48.875	ug/l	97
62) Toluene	10.629	91	526619	49.707	ug/l	99
64) Chlorobenzene	11.888	112	323202	49.023	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	114617	50.043	ug/l	99
66) Ethyl Benzene	11.965	91	582229	50.583	ug/l	99
67) m/p-Xylenes	12.070	106	446529	102.264	ug/l	99
68) o-Xylene	12.400	106	213661	50.765	ug/l	99
69) Styrene	12.412	104	369695	51.169	ug/l	99
70) Isopropylbenzene	12.694	105	546834	50.894	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	167855	50.500	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	144614m	50.872	ug/l	
73) Bromobenzene	12.982	156	131272	50.447	ug/l	98
74) n-propylbenzene	13.035	91	650890	50.836	ug/l	99
75) 2-Chlorotoluene	13.123	91	396493	49.834	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	461964	51.064	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	63656	52.330	ug/l	96
78) 4-Chlorotoluene	13.223	91	407771	50.410	ug/l	99
79) tert-butylbenzene	13.435	119	394929	51.169	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	467589	50.939	ug/l	100
81) sec-Butylbenzene	13.617	105	541224	50.934	ug/l	99
82) p-Isopropyltoluene	13.729	119	451993	50.537	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	243731	50.374	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	237600	49.452	ug/l	99
85) n-Butylbenzene	14.053	91	392578	50.679	ug/l	98
86) Hexachloroethane	14.335	117	85140	49.410	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	235213	50.280	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	35951	52.891	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	123597	50.816	ug/l	97
90) Hexachlorobutadiene	15.500	225	53904	47.905	ug/l	99
91) Naphthalene	15.641	128	428263	51.960	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	123597	50.816	ug/l	97

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

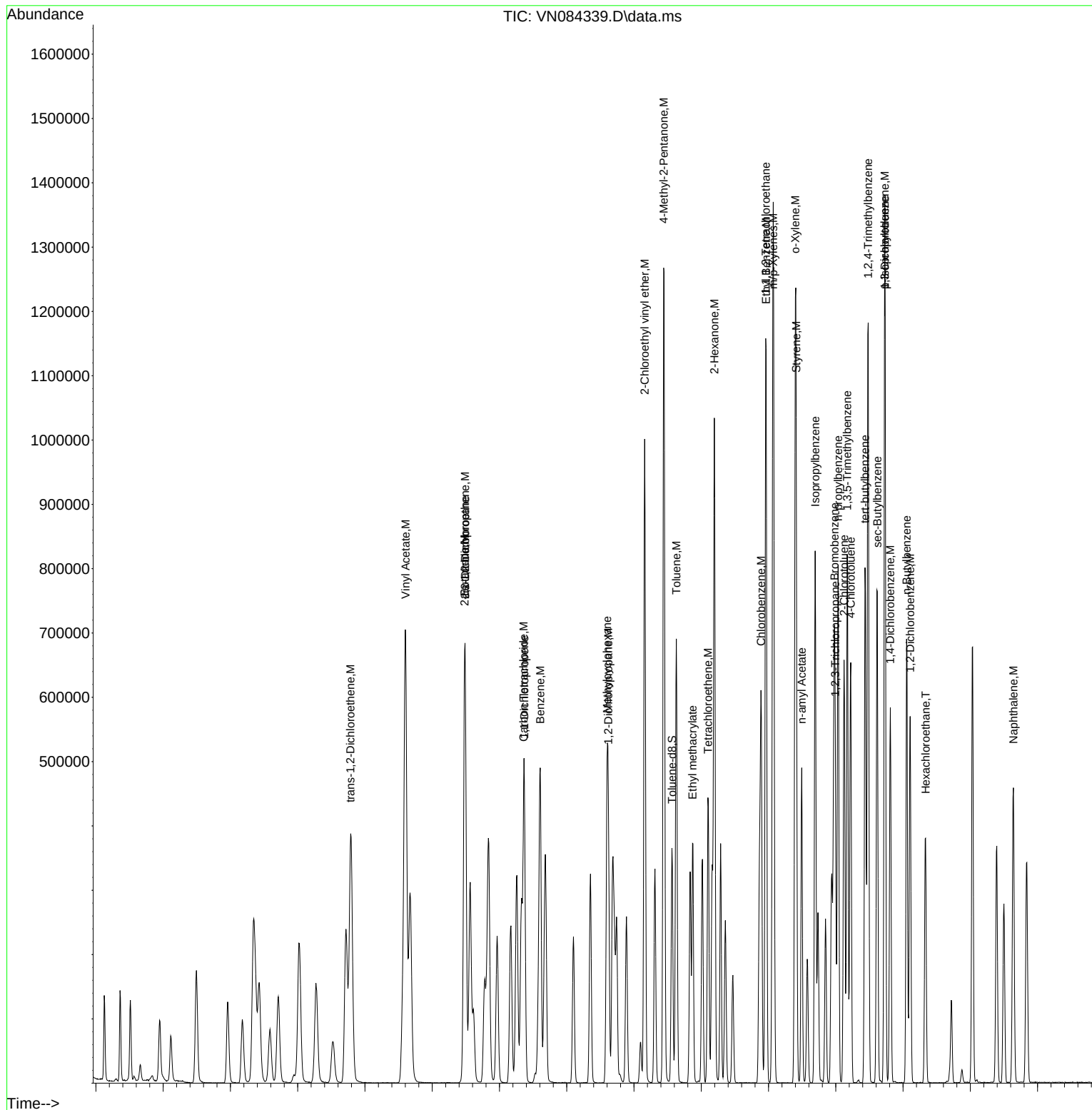
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
Data File : VN084339.D
Acq On : 08 Oct 2024 10:31
Operator : JC\MD
Sample : VSTDIC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

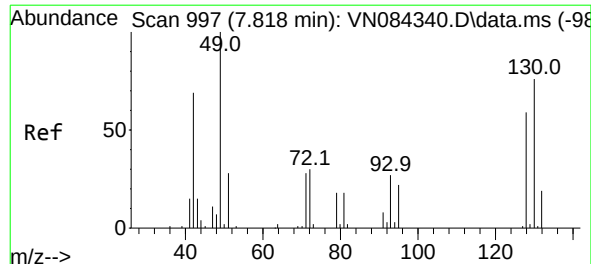
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:07:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:04:33 2024
Response via : Initial Calibration





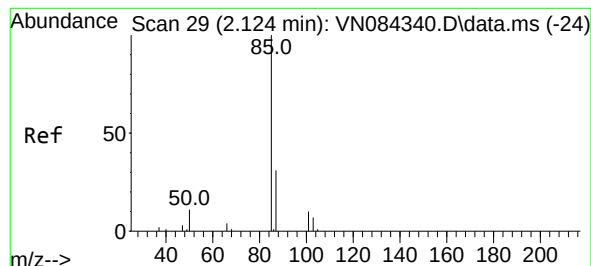
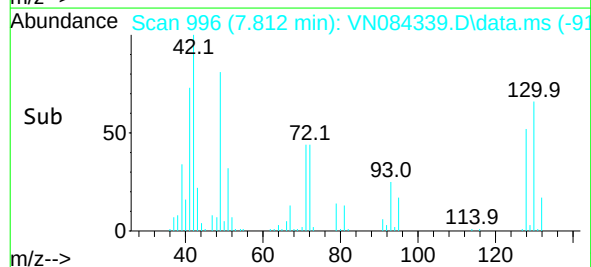
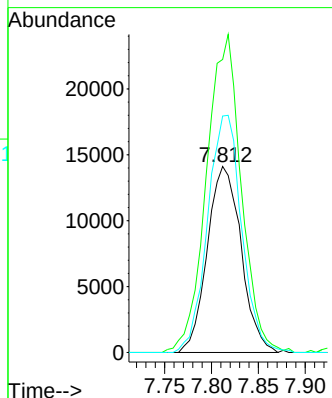
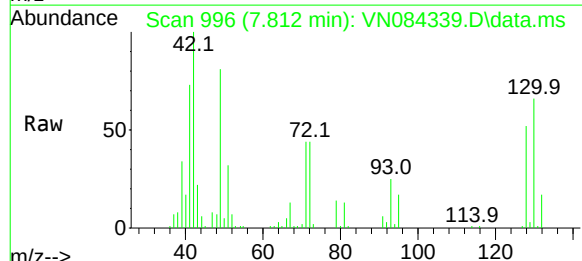
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion	128	Resp	35466
Ion Ratio	100		
49	175.8	0.0	430.0
130	128.5	0.0	329.8

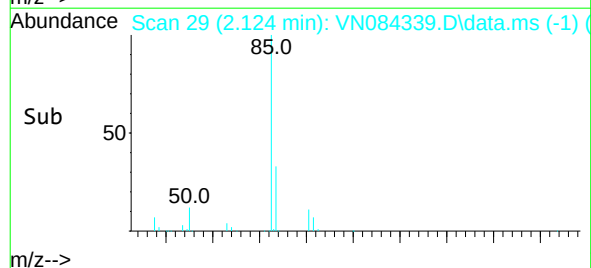
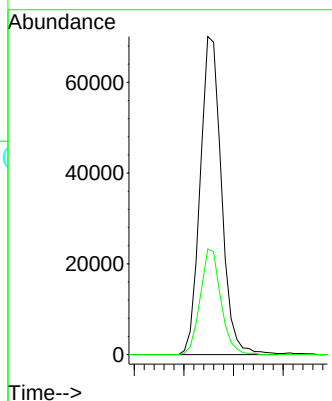
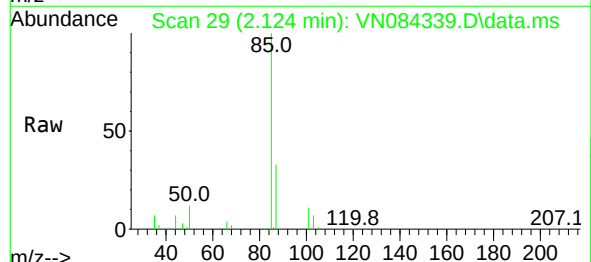
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

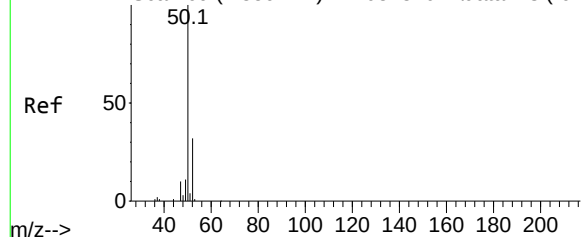


#2
Dichlorodifluoromethane
Concen: 48.263 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion	85	Resp	104507
Ion Ratio	100		
85	100		
87	33.2	15.4	46.4



Abundance Scan 69 (2.359 min): VN084340.D\data.ms (-64)



#3

Chloromethane

Concen: 48.544 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

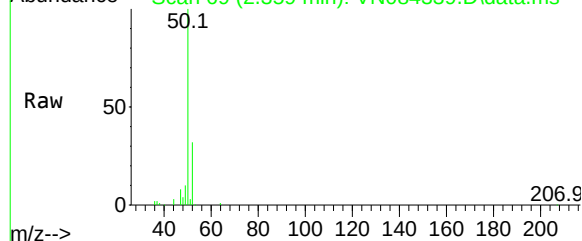
Instrument :

MSVOA_N

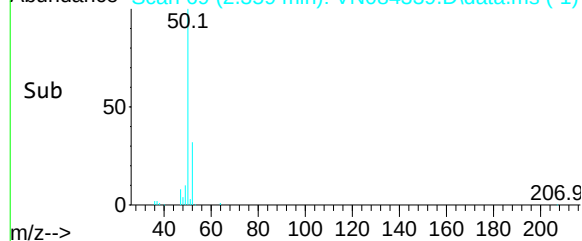
ClientSampleId :

VSTDICC050

Abundance Scan 69 (2.359 min): VN084339.D\data.ms



Abundance Scan 69 (2.359 min): VN084339.D\data.ms (-1)



Tgt Ion: 50 Resp: 119618

Ion Ratio Lower Upper

50 100

52 31.9 25.8 38.6

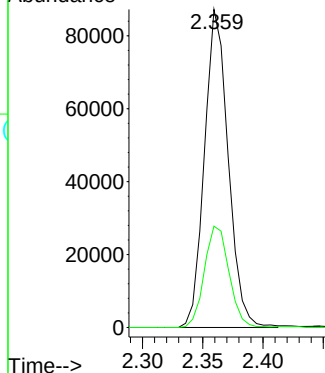
Manual Integrations

APPROVED

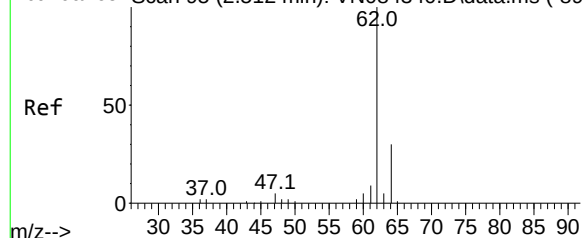
Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024

Abundance



Abundance Scan 95 (2.512 min): VN084340.D\data.ms (-89)



#4

Vinyl Chloride

Concen: 49.052 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

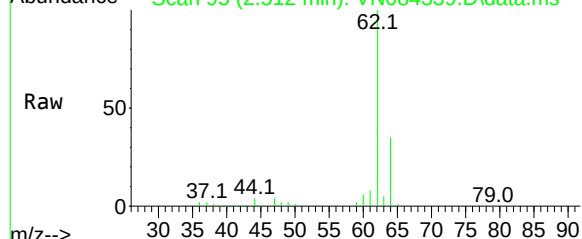
Tgt Ion: 62 Resp: 118532

Ion Ratio Lower Upper

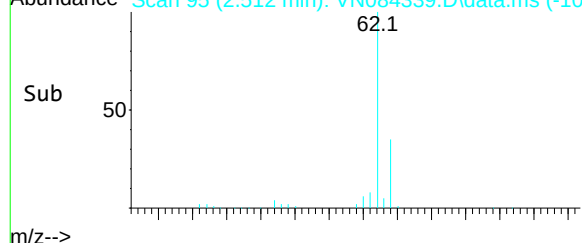
62 100

64 34.3 24.3 36.5

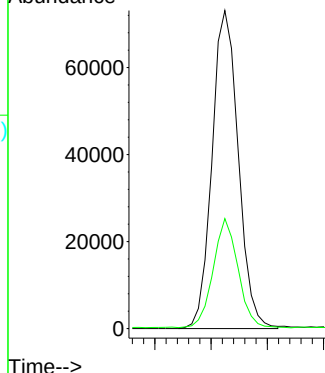
Abundance Scan 95 (2.512 min): VN084339.D\data.ms

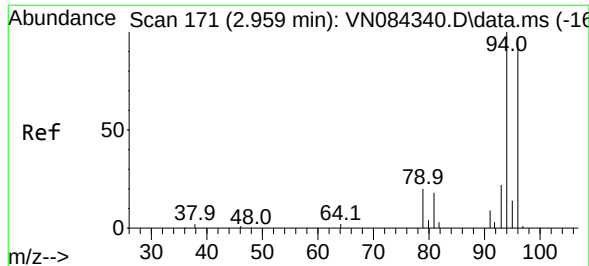


Abundance Scan 95 (2.512 min): VN084339.D\data.ms (-10)



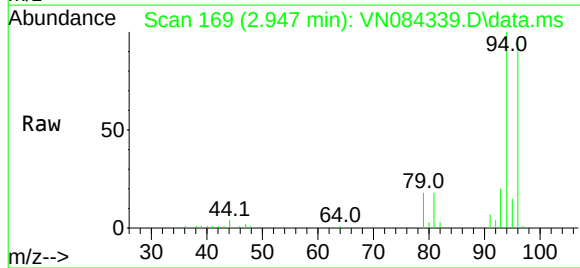
Abundance





#5
Bromomethane
Concen: 46.107 ug/l
RT: 2.947 min Scan# 16
Delta R.T. -0.012 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

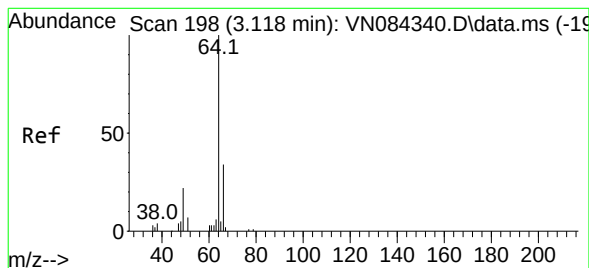
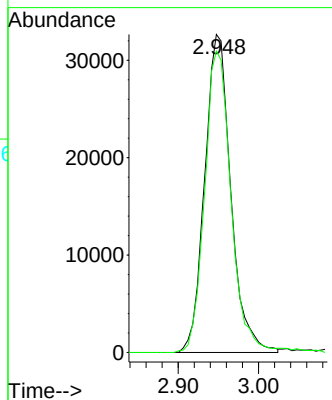
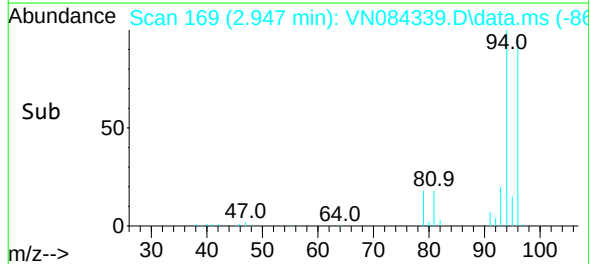
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 94 Resp: 73816
Ion Ratio Lower Upper
94 100
96 94.2 76.7 115.1

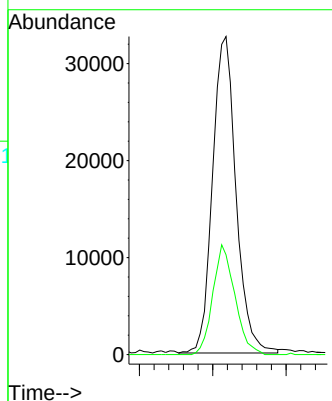
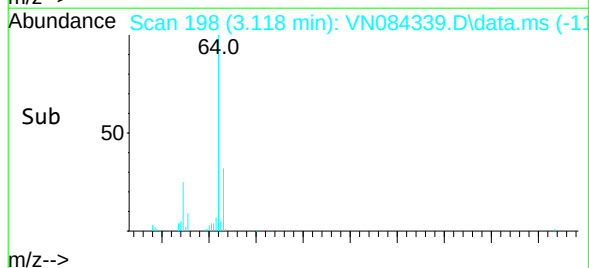
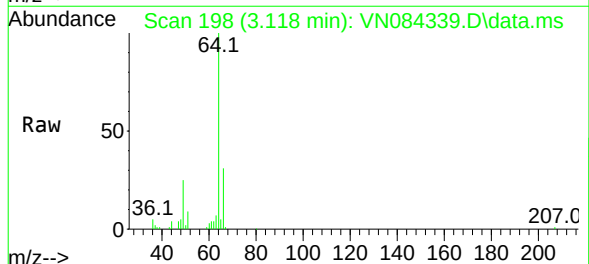
Manual Integrations
APPROVED

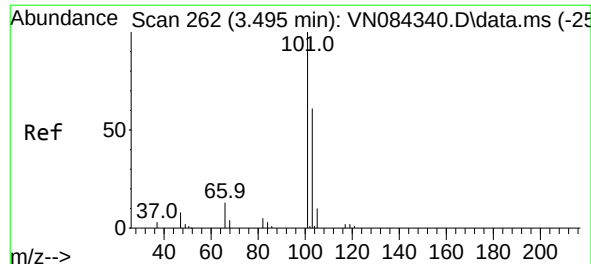
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#6
Chloroethane
Concen: 45.819 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion: 64 Resp: 72586
Ion Ratio Lower Upper
64 100
66 31.5 27.7 41.5





#7

Trichlorofluoromethane

Concen: 48.893 ug/l

RT: 3.495 min Scan# 262

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion:101 Resp: 192447

Ion Ratio Lower Upper

101 100

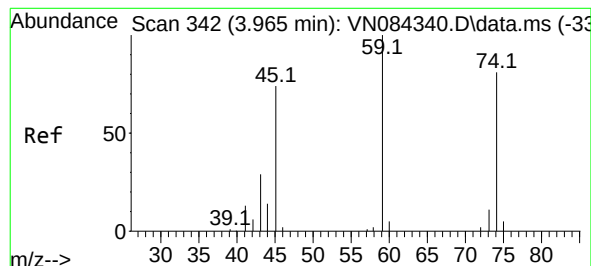
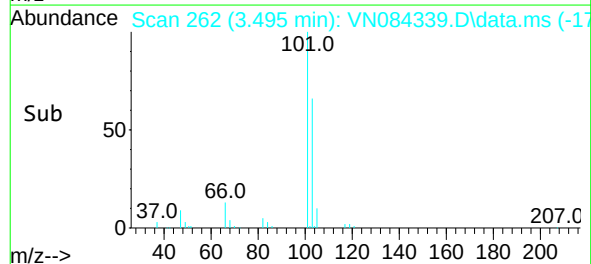
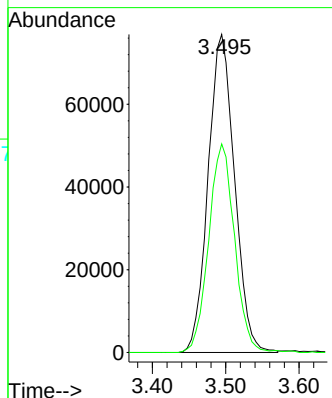
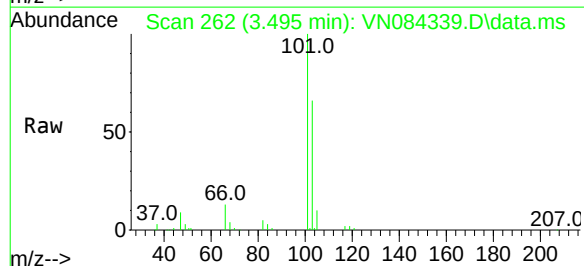
103 65.6 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#8

Diethyl Ether

Concen: 50.089 ug/l

RT: 3.959 min Scan# 341

Delta R.T. -0.006 min

Lab File: VN084339.D

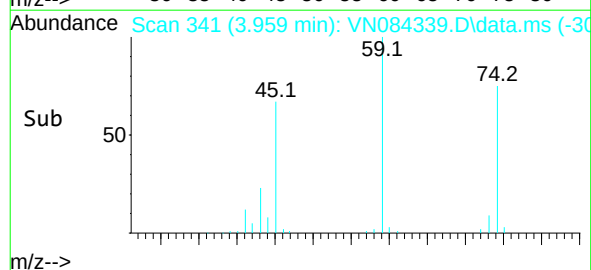
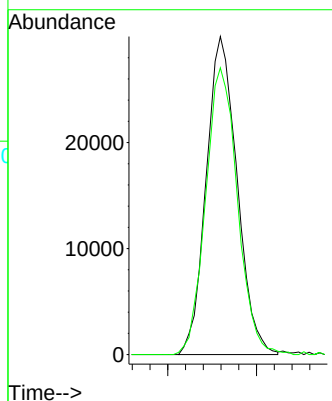
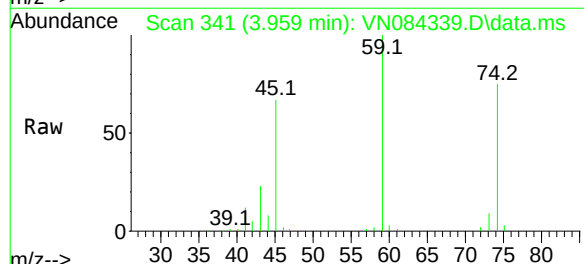
Acq: 08 Oct 2024 10:31

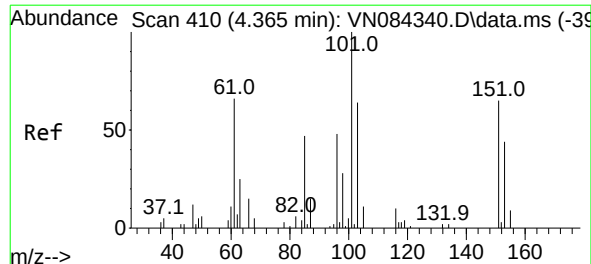
Tgt Ion: 74 Resp: 72484

Ion Ratio Lower Upper

74 100

45 93.0 19.2 173.2





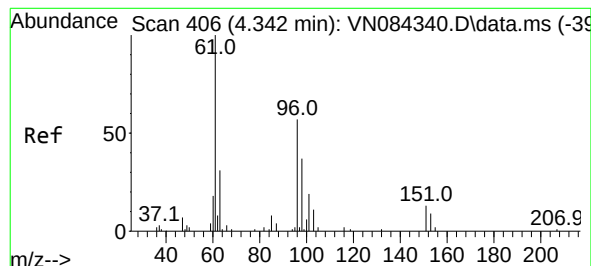
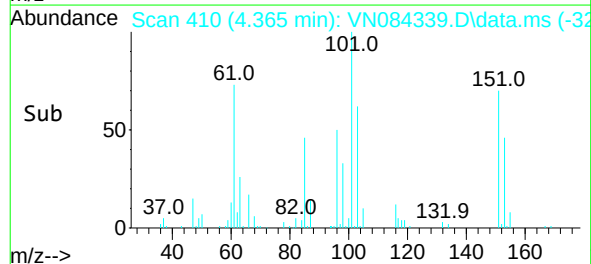
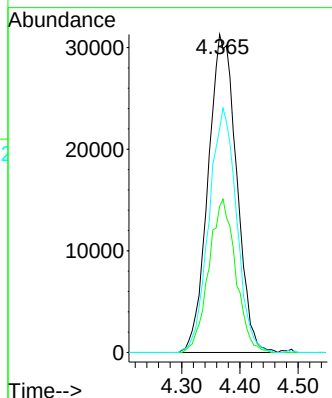
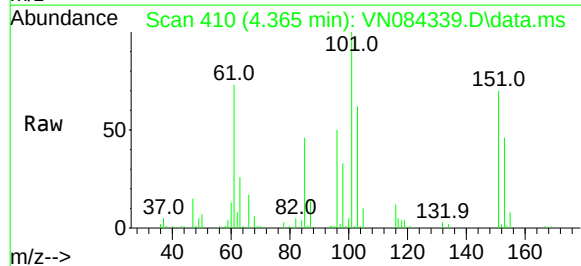
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.040 ug/l
RT: 4.365 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 101 Resp: 106319
Ion Ratio Lower Upper
101 100
85 45.7 0.0 93.6
151 74.4 0.0 151.8

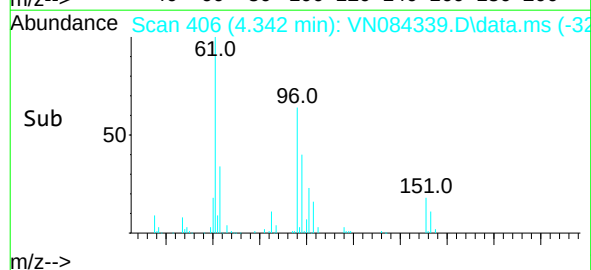
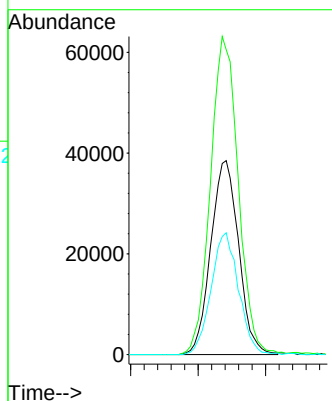
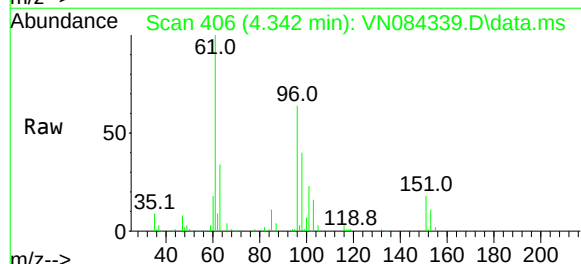
Manual Integrations
APPROVED

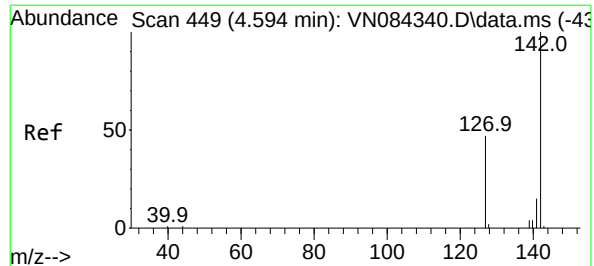
Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024



#10
1,1-Dichloroethene
Concen: 50.053 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

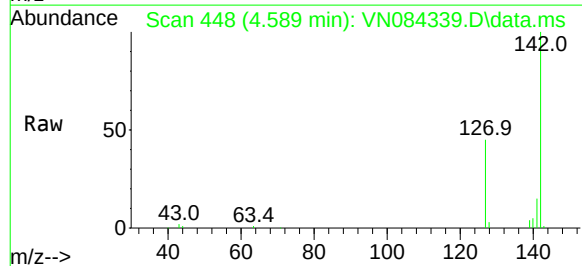
Tgt Ion: 96 Resp: 110533
Ion Ratio Lower Upper
96 100
61 157.2 140.8 211.2
98 62.8 52.2 78.2





#11
Methyl Iodide
Concen: 50.376 ug/l
RT: 4.589 min Scan# 449
Delta R.T. -0.006 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

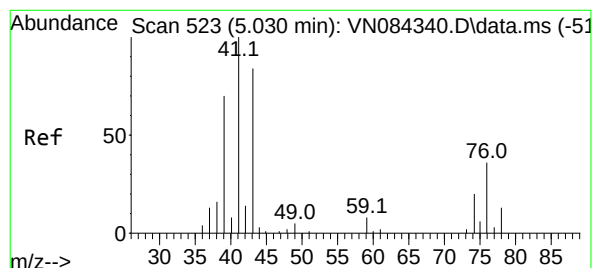
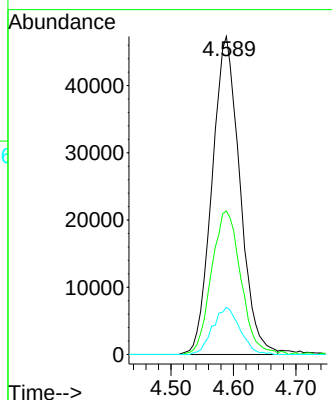
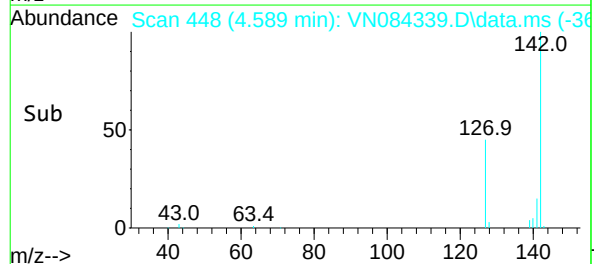
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 142 Resp: 146194
Ion Ratio Lower Upper
142 100
127 45.1 23.8 71.4
141 14.9 7.4 22.2

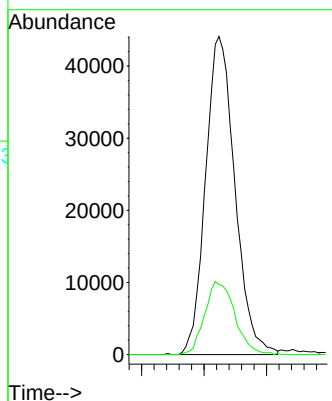
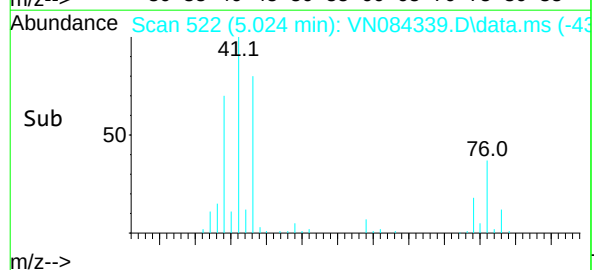
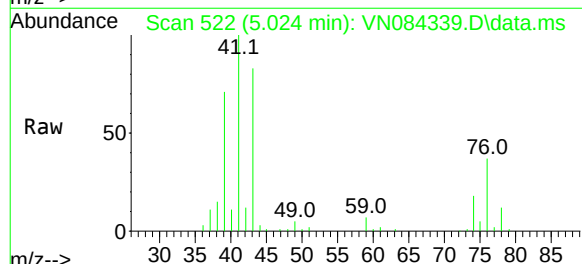
Manual Integrations
APPROVED

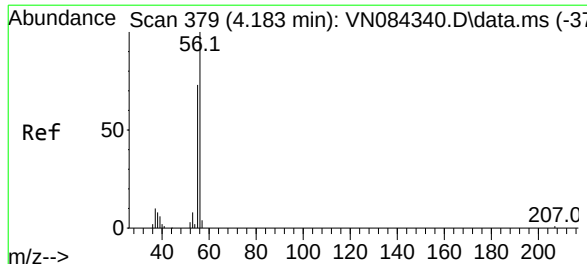
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#12
Methyl Acetate
Concen: 52.068 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.006 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion: 43 Resp: 143947
Ion Ratio Lower Upper
43 100
74 21.9 19.4 29.2





#13

Acrolein

Concen: 247.880 ug/l

RT: 4.177 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 56 Resp: 127301

Ion Ratio Lower Upper

56 100

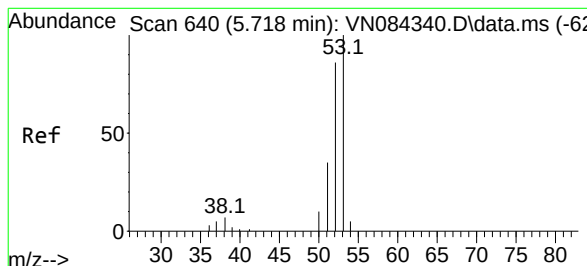
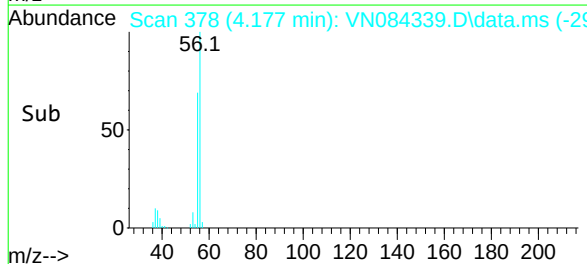
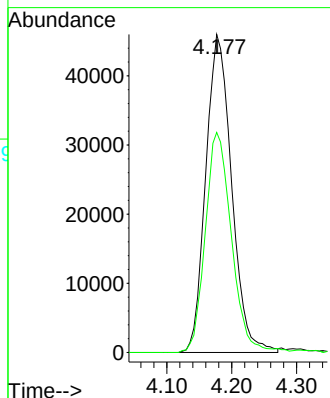
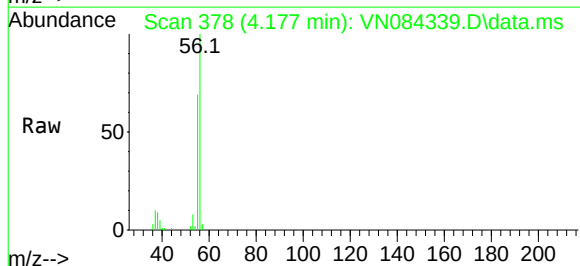
55 69.7 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#14

Acrylonitrile

Concen: 253.254 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

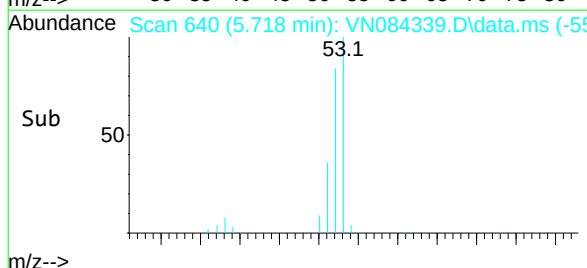
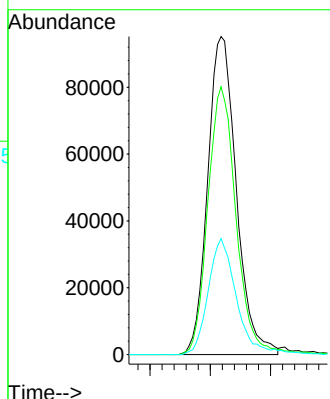
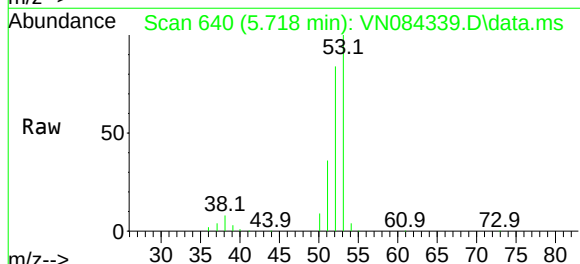
Tgt Ion: 53 Resp: 314551

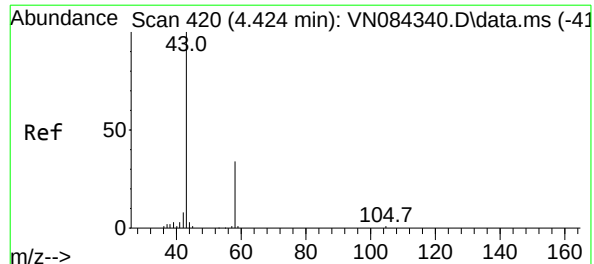
Ion Ratio Lower Upper

53 100

52 82.9 40.4 121.2

51 35.1 17.8 53.4





#15

Acetone

Concen: 254.725 ug/l

RT: 4.430 min Scan# 42

Delta R.T. 0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 58 Resp: 90377

Ion Ratio Lower Upper

58 100

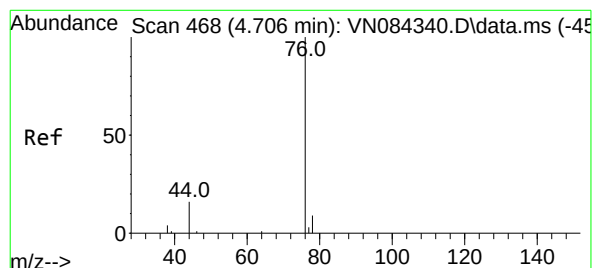
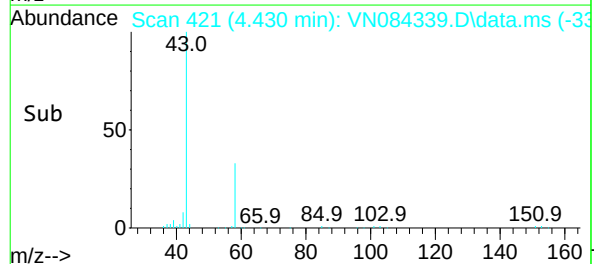
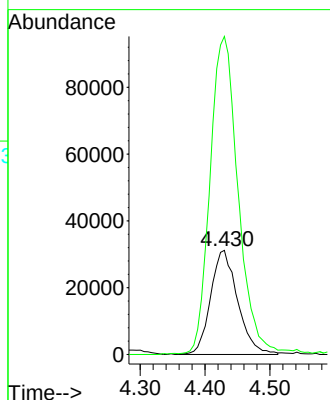
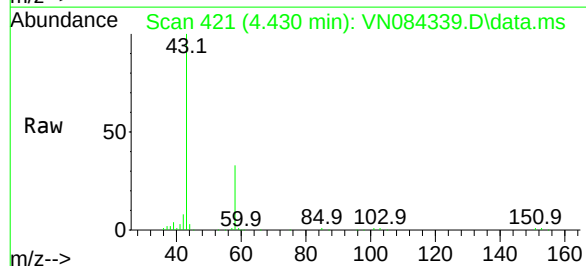
43 304.6 237.5 356.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#16

Carbon Disulfide

Concen: 48.056 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN084339.D

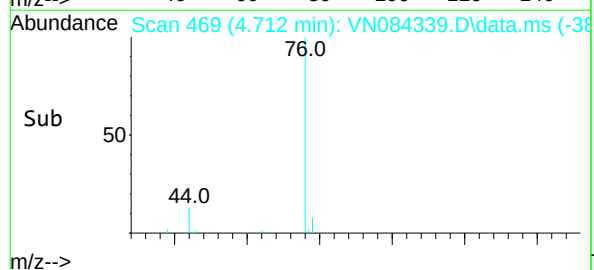
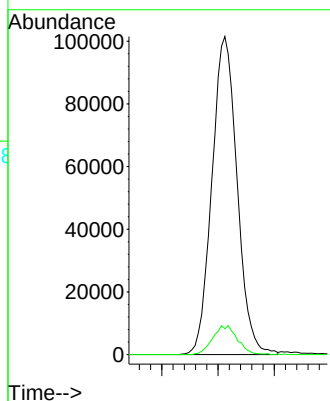
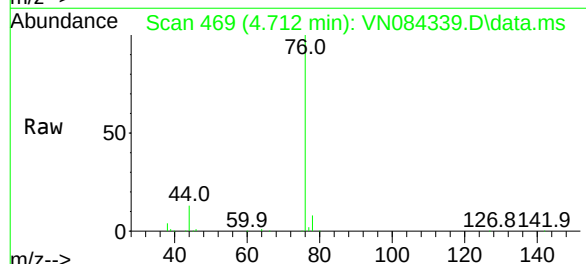
Acq: 08 Oct 2024 10:31

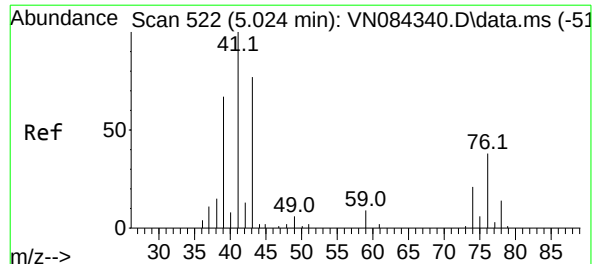
Tgt Ion: 76 Resp: 316013

Ion Ratio Lower Upper

76 100

78 8.1 7.1 10.7





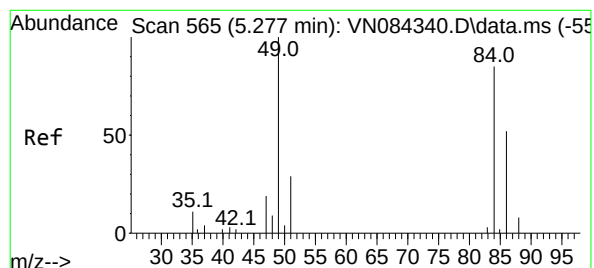
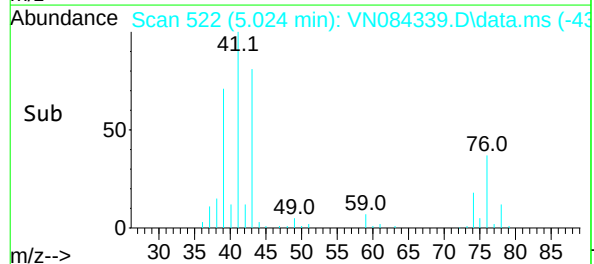
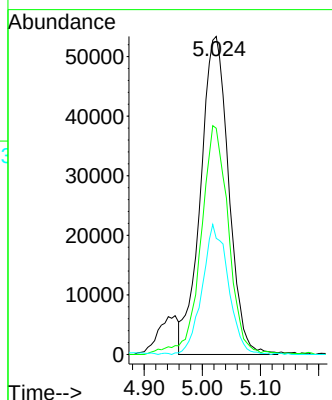
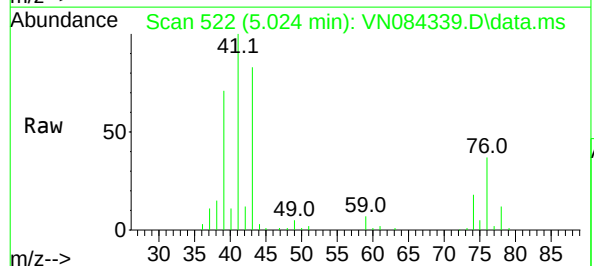
#17
Allyl chloride
Concen: 50.205 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion:	41	Resp:	179722
Ion	Ratio	Lower	Upper
41	100		
39	71.0	31.4	94.3
76	36.4	17.8	53.5

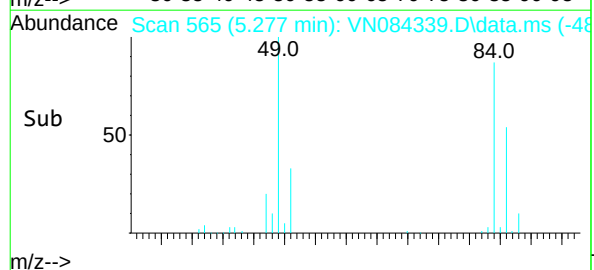
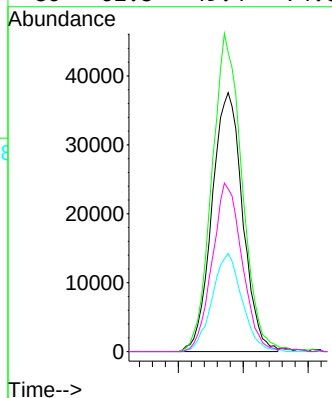
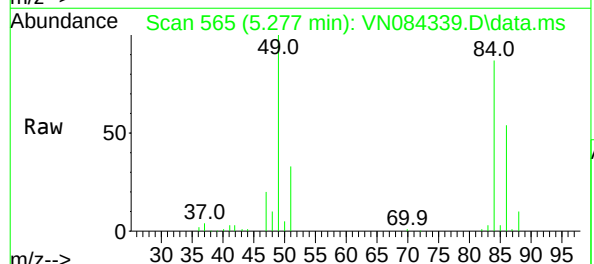
Manual Integrations
APPROVED

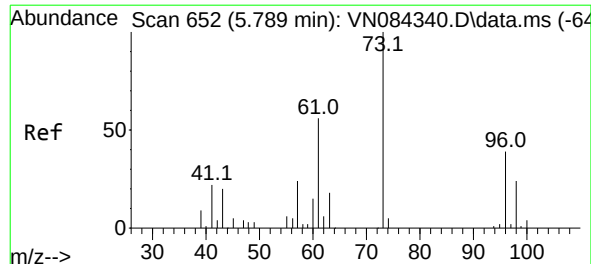
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#18
Methylene Chloride
Concen: 49.660 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion:	84	Resp:	123536
Ion	Ratio	Lower	Upper
84	100		
49	115.5	94.6	142.0
51	37.9	27.3	40.9
86	62.8	49.4	74.0





#19

trans-1,2-Dichloroethene

Concen: 49.248 ug/l

RT: 5.783 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 96 Resp: 115099

Ion Ratio Lower Upper

96 100

61 128.1 115.8 173.6

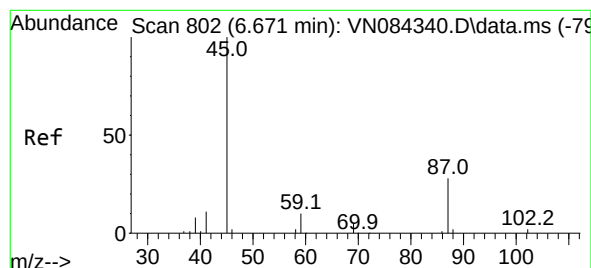
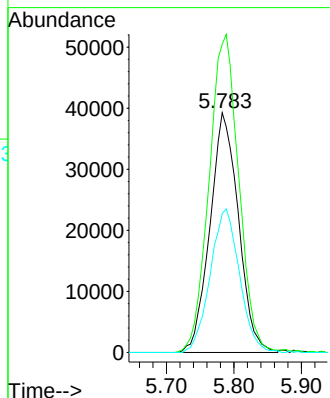
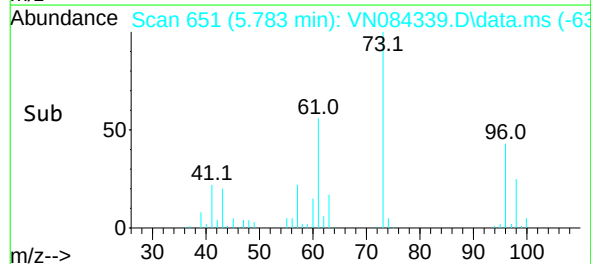
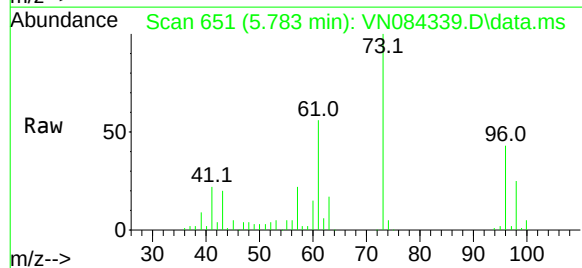
98 57.9 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#20

Diisopropyl ether

Concen: 50.368 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion: 45 Resp: 387668

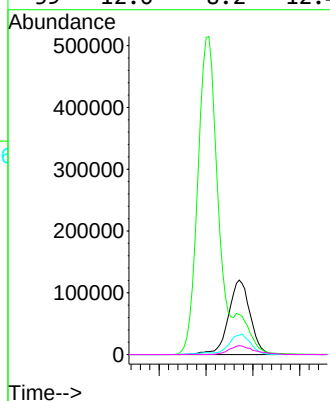
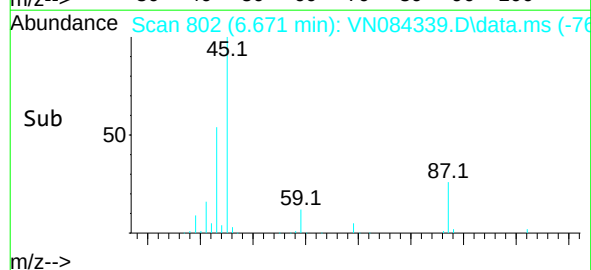
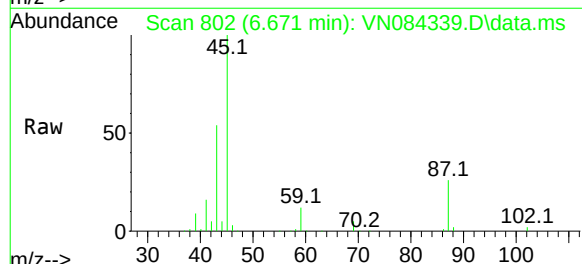
Ion Ratio Lower Upper

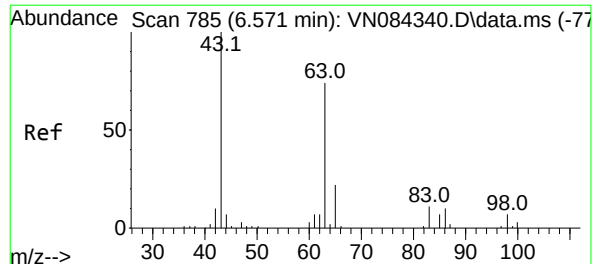
45 100

43 52.4 43.7 65.5

87 25.9 23.1 34.7

59 12.0 8.2 12.4





#21

1,1-Dichloroethane

Concen: 48.975 ug/l

RT: 6.571 min Scan# 785

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

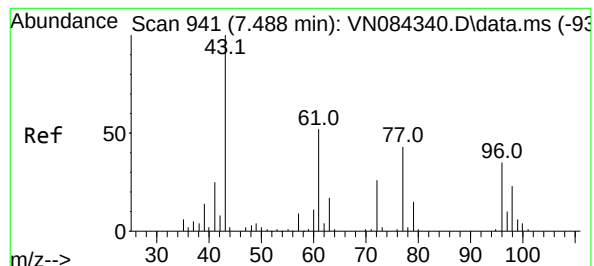
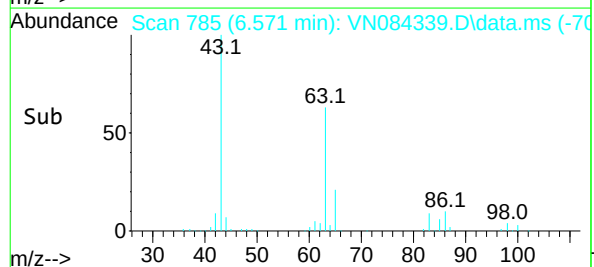
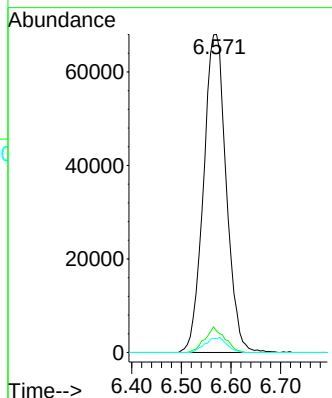
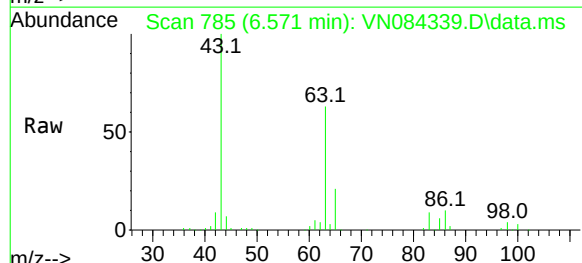
VSTDICC050

Tgt Ion:	63	Resp:	216289
Ion	Ratio	Lower	Upper
63	100		
98	6.8	4.5	13.4
100	4.3	2.1	6.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#22

cis-1,2-Dichloroethene

Concen: 49.862 ug/l

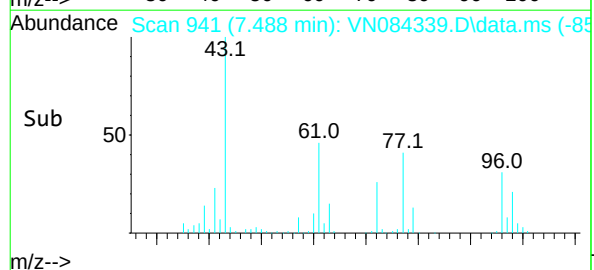
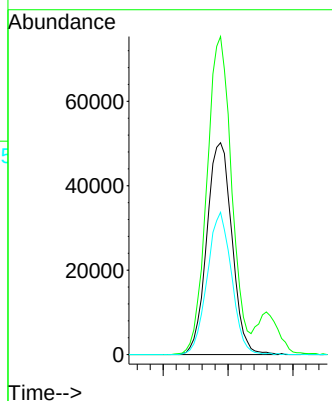
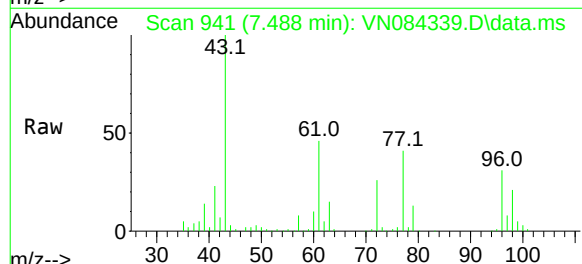
RT: 7.488 min Scan# 941

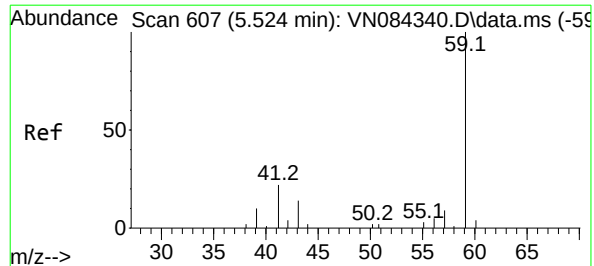
Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	96	Resp:	135603
Ion	Ratio	Lower	Upper
96	100		
61	147.6	118.0	177.0
98	64.7	51.8	77.8





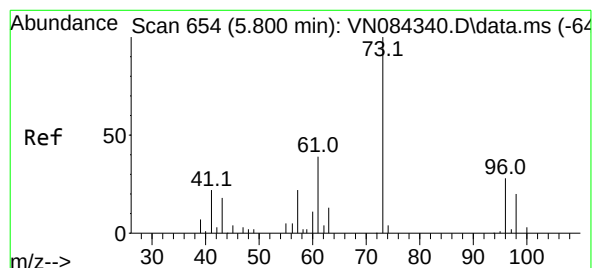
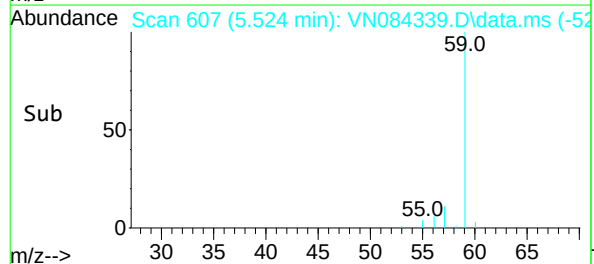
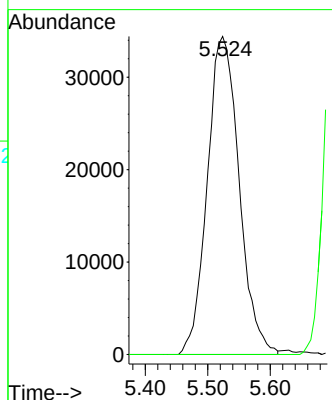
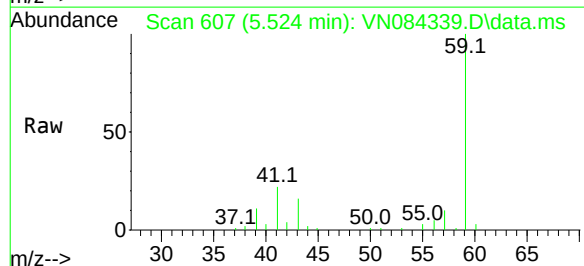
#23
tert-Butyl Alcohol
Concen: 255.936 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 59 Resp: 121932
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

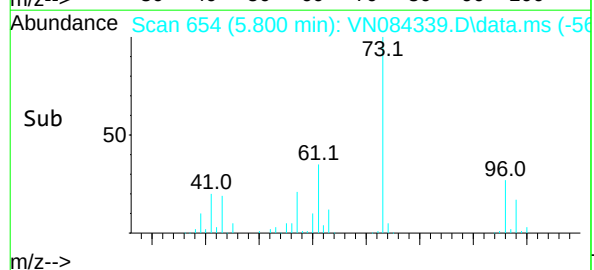
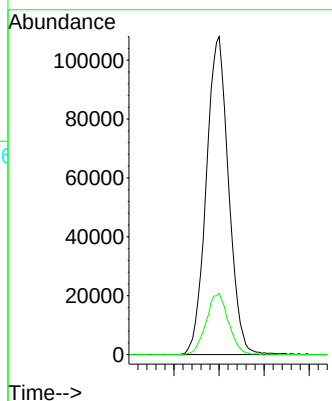
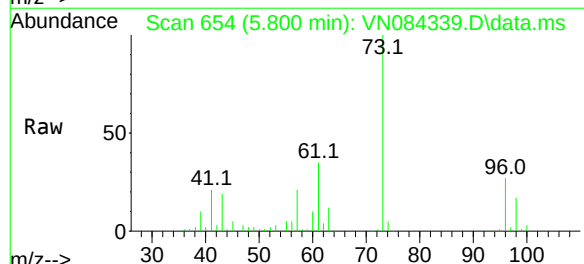
Manual Integrations
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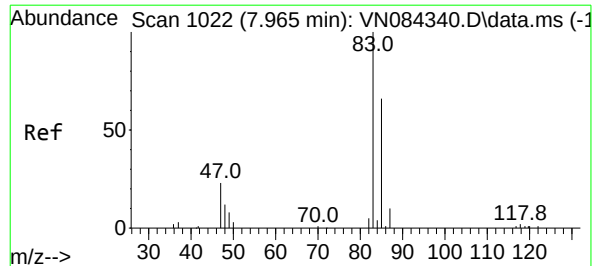
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#24
Methyl tert-Butyl Ether
Concen: 50.347 ug/l m
RT: 5.800 min Scan# 654
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion: 73 Resp: 371557
Ion Ratio Lower Upper
73 100
43 0.0 10.9 16.3





#25

Chloroform

Concen: 50.153 ug/l

RT: 7.965 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 83 Resp: 224326

Ion Ratio Lower Upper

83 100

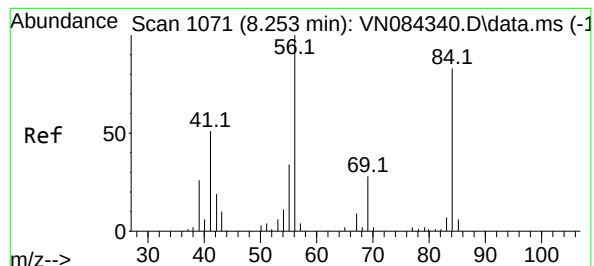
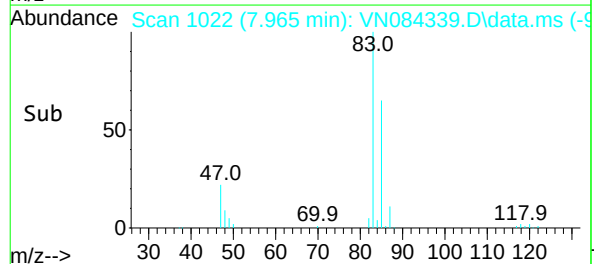
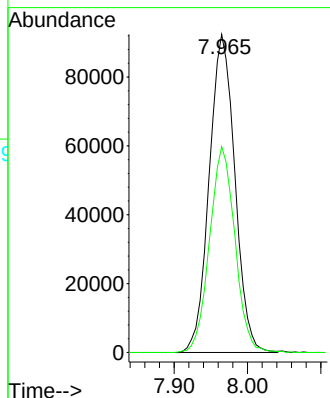
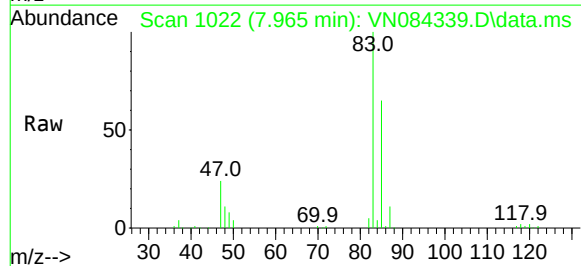
85 64.6 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#26

Cyclohexane

Concen: 49.456 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

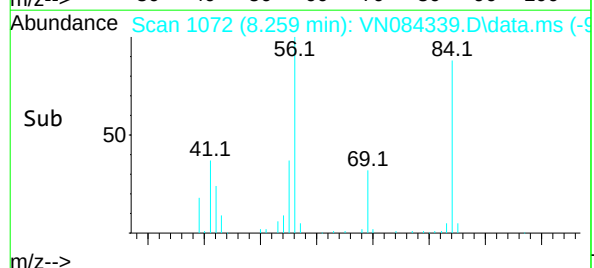
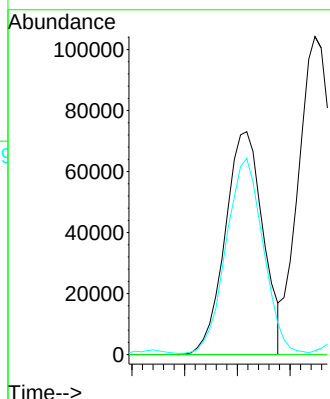
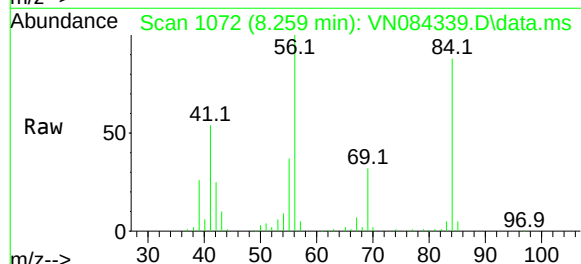
Tgt Ion: 56 Resp: 182672

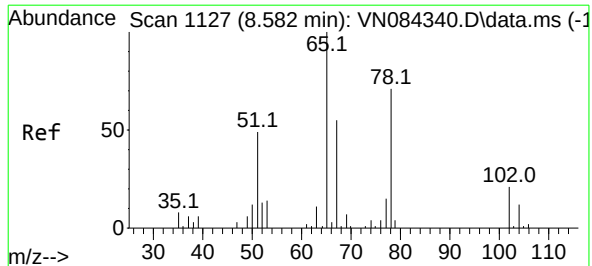
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

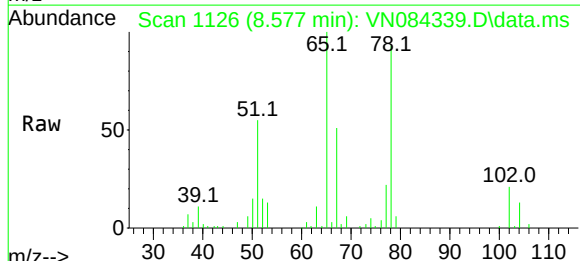
84 87.0 67.0 100.6





#27
1,2-Dichloroethane-d4
Concen: 29.444 ug/l
RT: 8.577 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

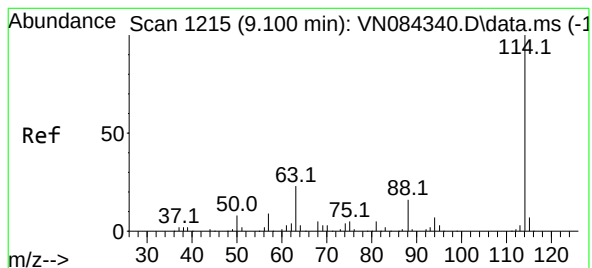
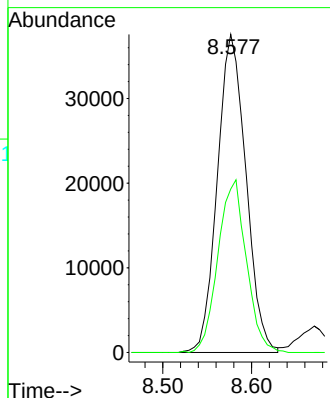
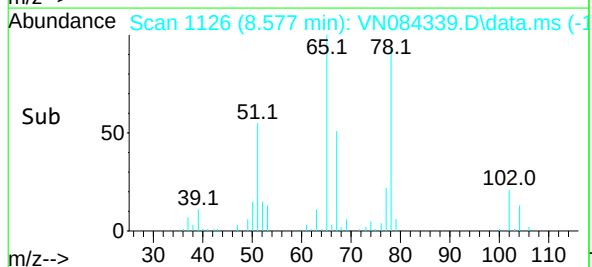
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 65 Resp: 84072
Ion Ratio Lower Upper
65 100
67 53.9 41.5 62.3

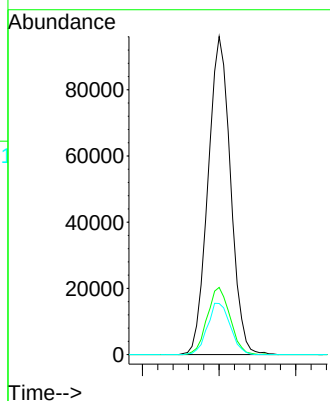
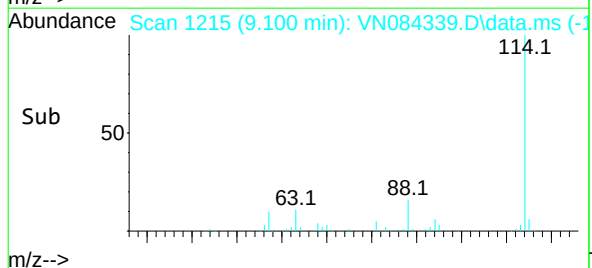
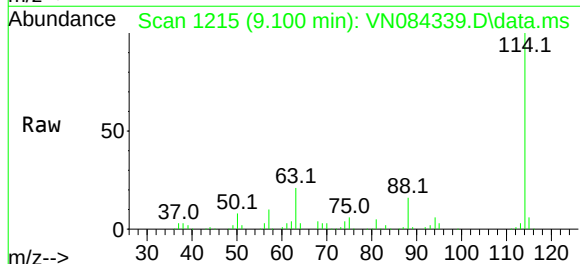
Manual Integrations
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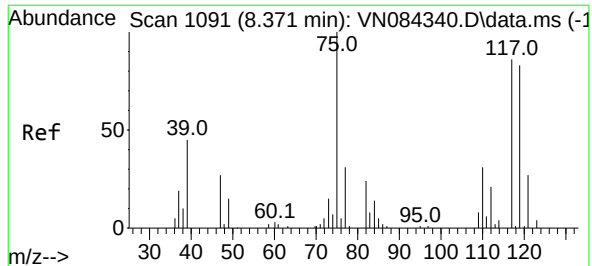
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion:114 Resp: 196182
Ion Ratio Lower Upper
114 100
63 21.3 17.4 26.0
88 16.4 13.2 19.8





#29

1,1-Dichloropropene

Concen: 49.412 ug/l

RT: 8.371 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 159132

Ion Ratio Lower Upper

75 100

110 33.3 0.0 67.6

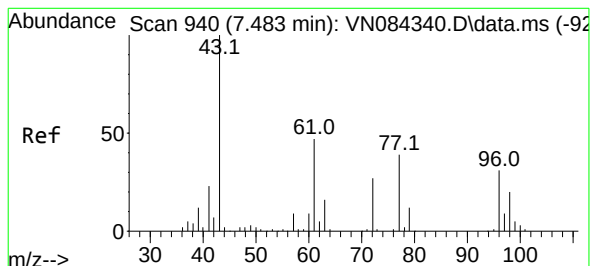
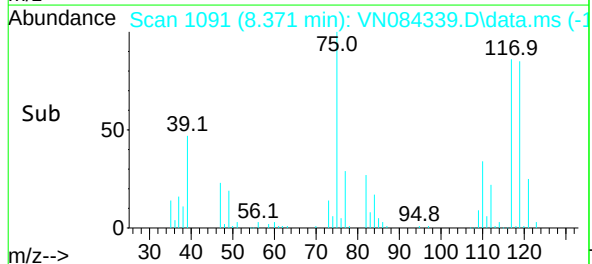
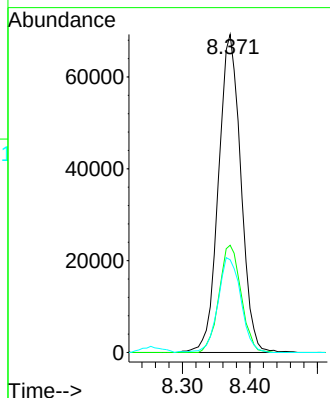
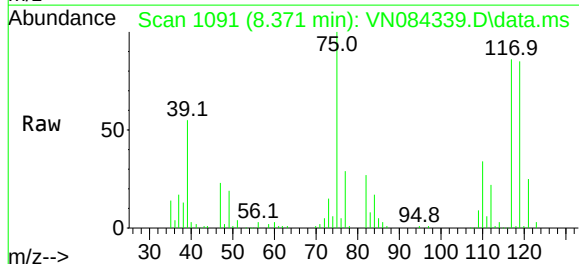
77 30.6 0.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#30

2-Butanone

Concen: 255.703 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

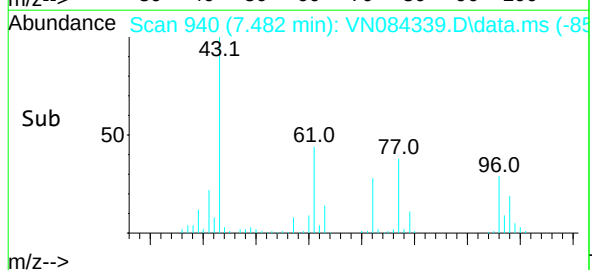
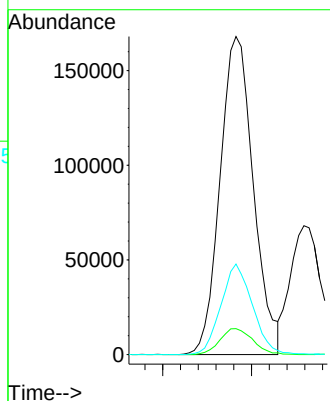
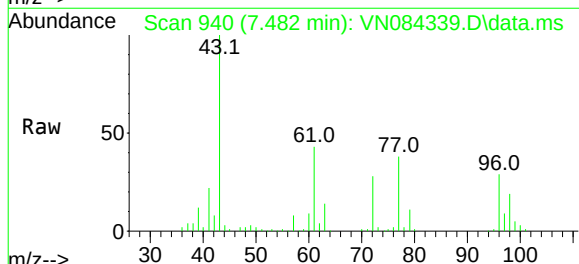
Tgt Ion: 43 Resp: 438443

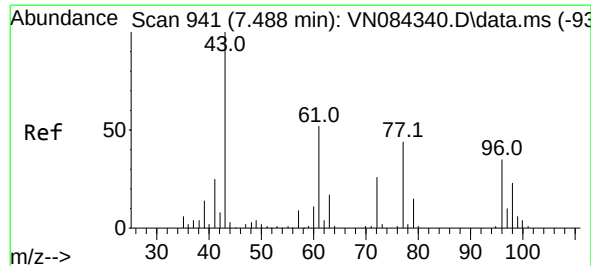
Ion Ratio Lower Upper

43 100

57 8.1 6.6 9.8

72 26.9 21.3 31.9





#31

2,2-Dichloropropane

Concen: 49.191 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 77 Resp: 186163

Ion Ratio Lower Upper

77 100

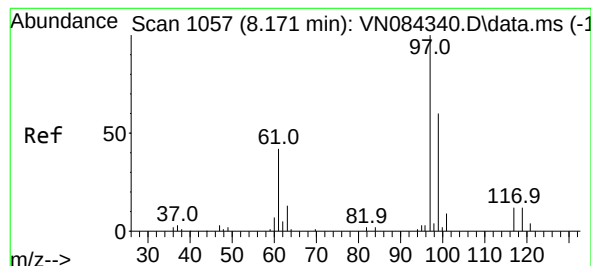
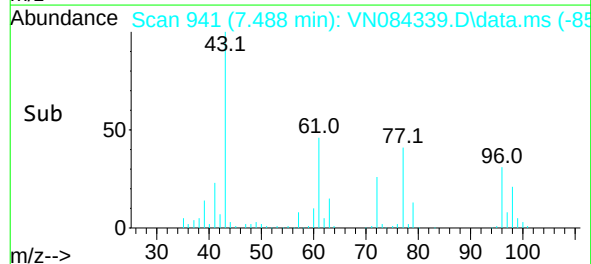
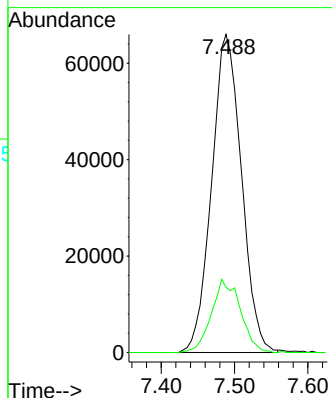
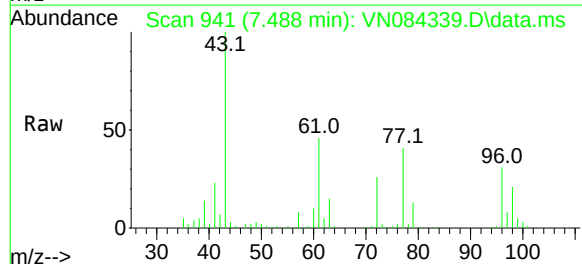
97 14.7 11.5 17.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#32

1,1,1-Trichloroethane

Concen: 49.200 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

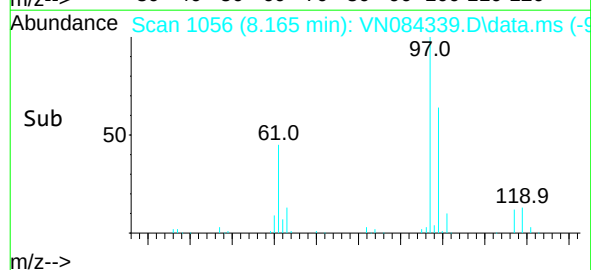
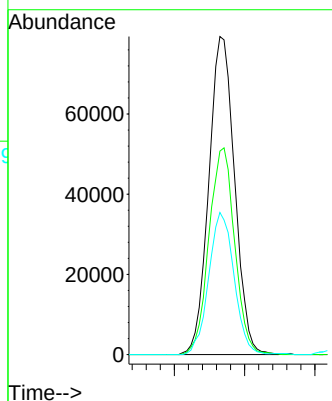
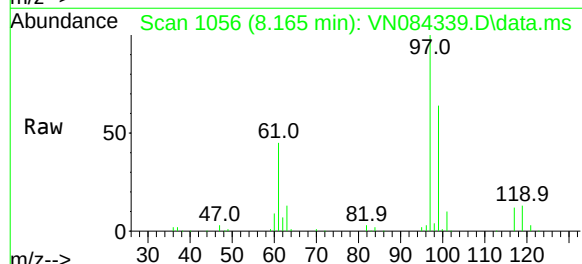
Tgt Ion: 97 Resp: 202531

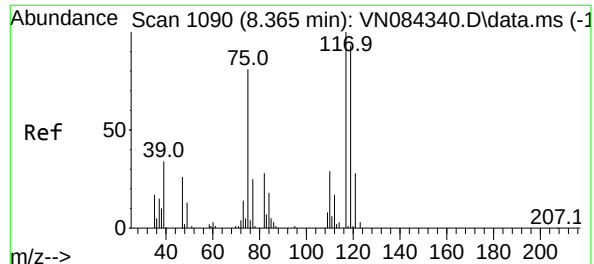
Ion Ratio Lower Upper

97 100

99 64.8 51.2 76.8

61 43.7 34.1 51.1





#33

Carbon Tetrachloride

Concen: 48.728 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:117 Resp: 173775

Ion Ratio Lower Upper

117 100

119 97.5 74.3 111.5

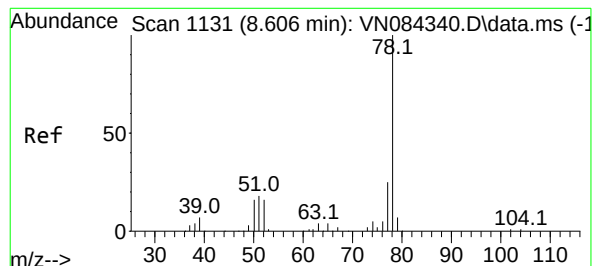
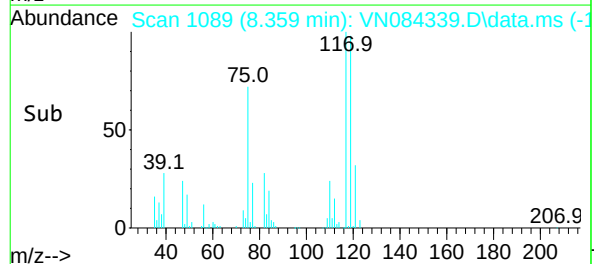
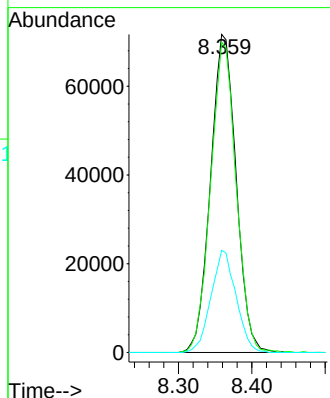
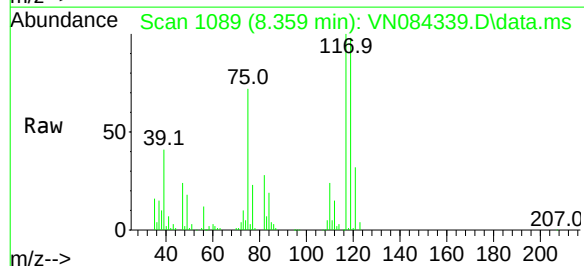
121 32.1 22.4 33.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#34

Benzene

Concen: 49.013 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

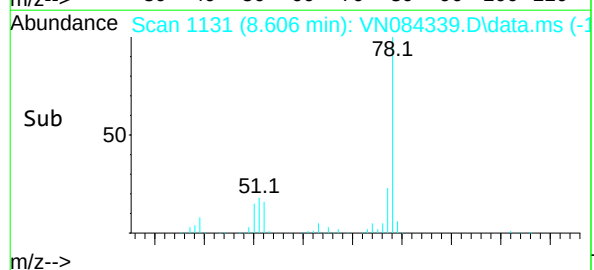
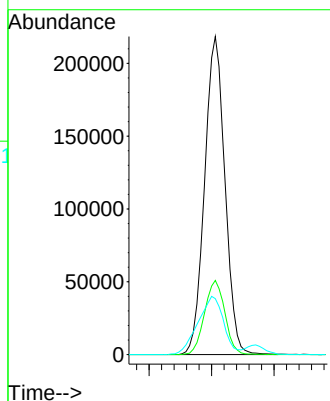
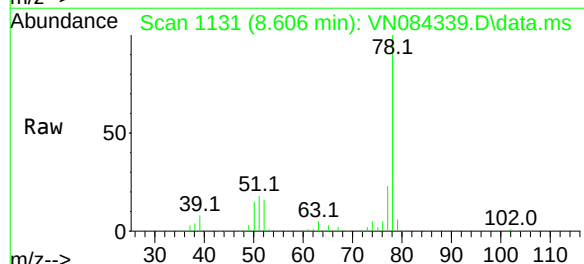
Tgt Ion: 78 Resp: 494102

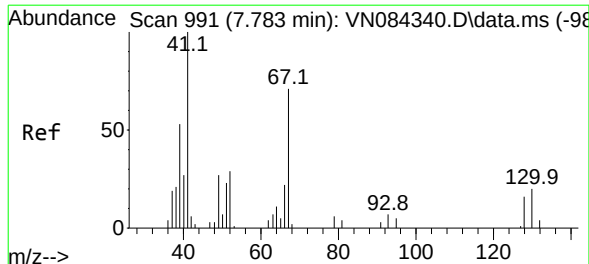
Ion Ratio Lower Upper

78 100

77 23.3 19.6 29.4

51 17.4 15.8 23.6





#35

Methacrylonitrile

Concen: 51.695 ug/l

RT: 7.777 min Scan# 991

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 41 Resp: 94562

Ion Ratio Lower Upper

41 100

39 55.5 26.4 79.0

67 75.4 35.7 107.1

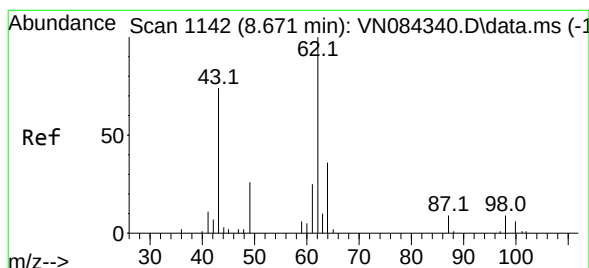
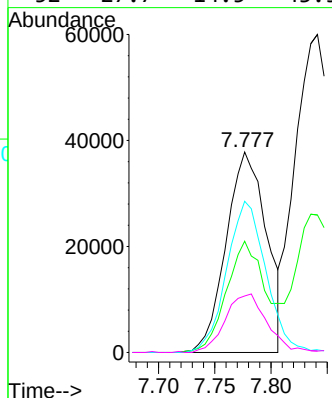
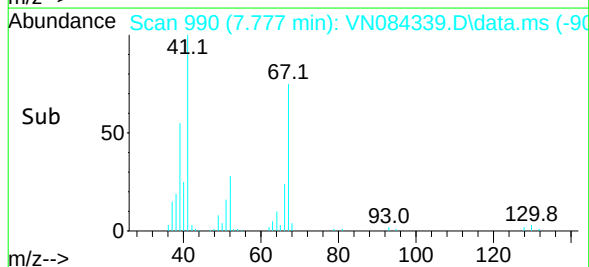
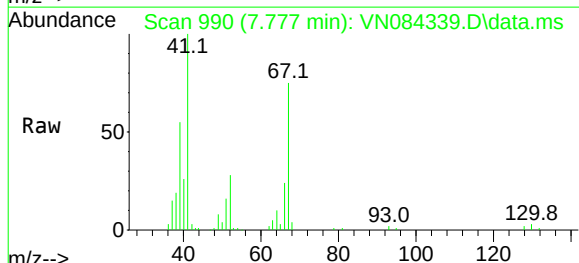
52 27.7 14.5 43.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#36

1,2-Dichloroethane

Concen: 49.385 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084339.D

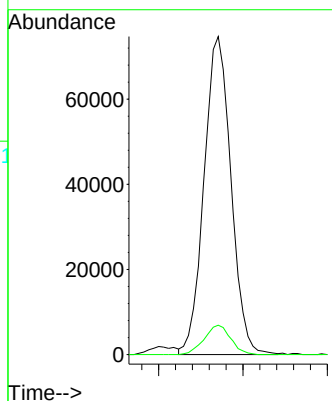
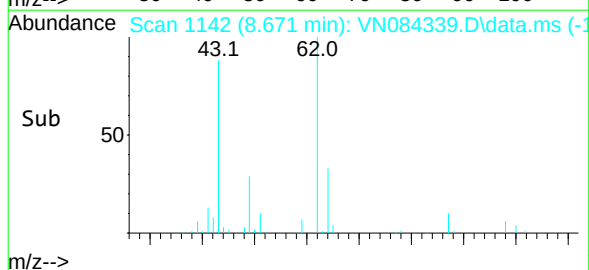
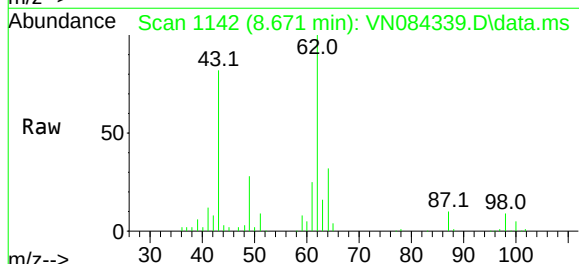
Acq: 08 Oct 2024 10:31

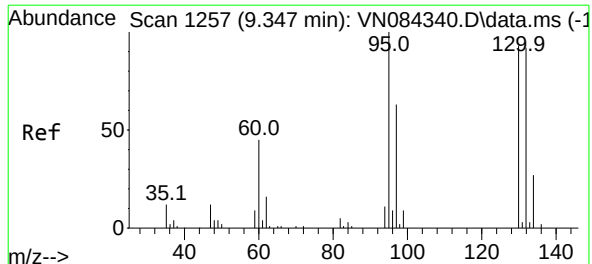
Tgt Ion: 62 Resp: 165947

Ion Ratio Lower Upper

62 100

98 9.1 7.3 10.9





#37

Trichloroethene

Concen: 48.615 ug/l

RT: 9.353 min Scan# 1257

Delta R.T. 0.006 min

Lab File: VN084339.D

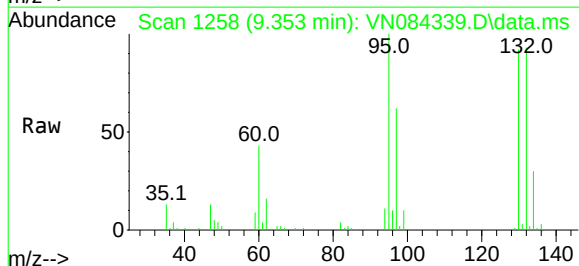
Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050



Tgt Ion:130 Resp: 112853

Ion Ratio Lower Upper

130 100

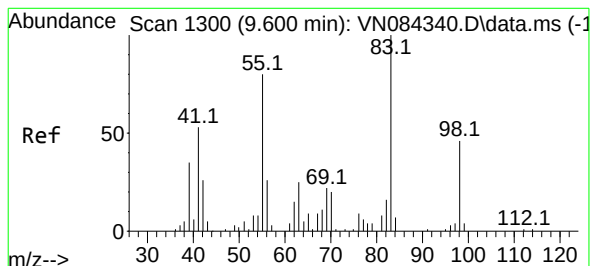
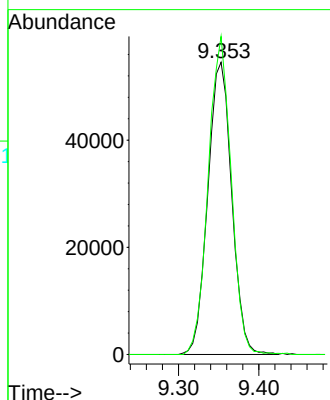
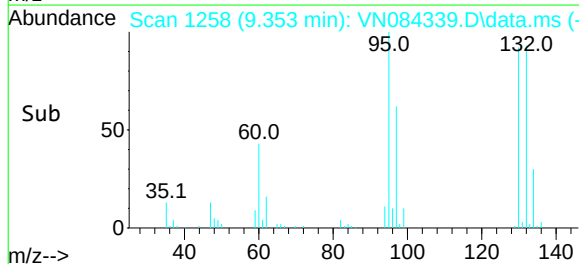
95 108.8 85.8 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#38

Methylcyclohexane

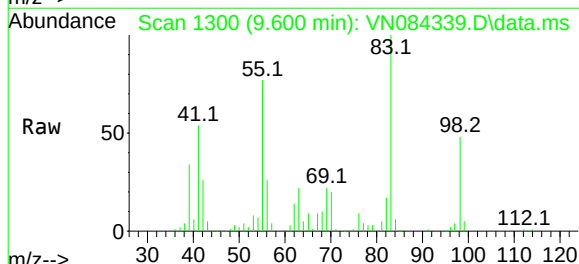
Concen: 49.477 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31



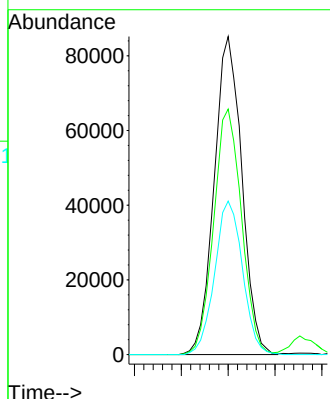
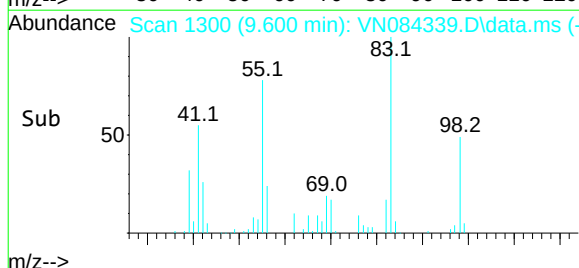
Tgt Ion: 83 Resp: 175023

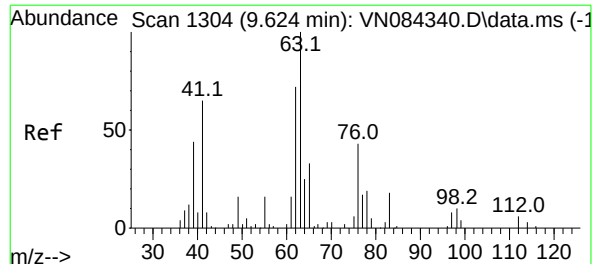
Ion Ratio Lower Upper

83 100

55 77.6 39.3 117.8

98 48.5 24.0 72.0





#39

1,2-Dichloropropane

Concen: 48.292 ug/l

RT: 9.618 min Scan# 13

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 63 Resp: 118717

Ion Ratio Lower Upper

63 100

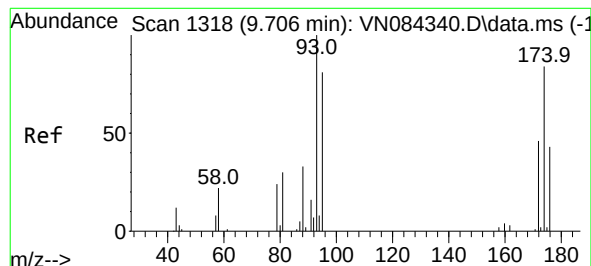
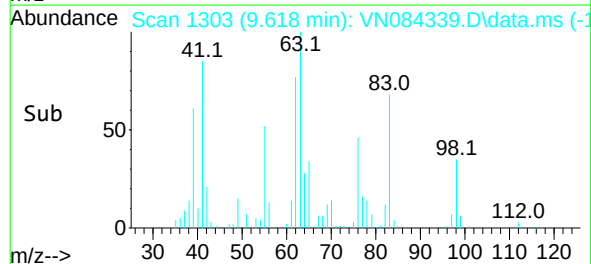
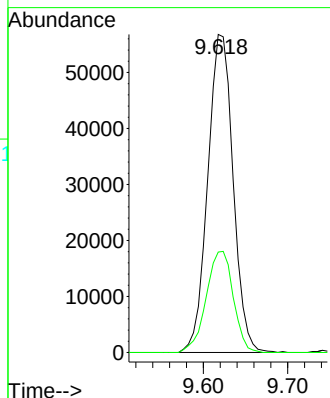
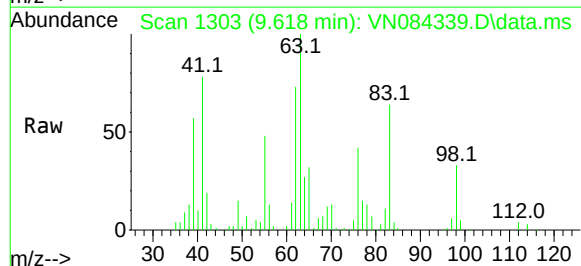
65 31.6 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#40

Dibromomethane

Concen: 48.900 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

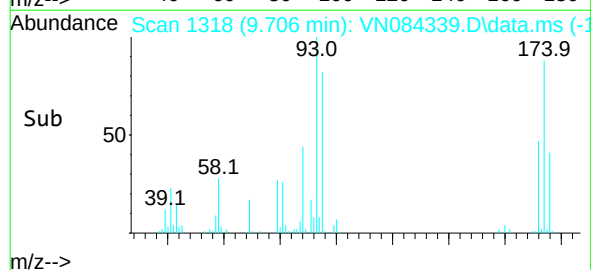
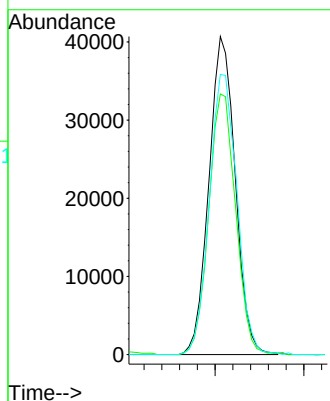
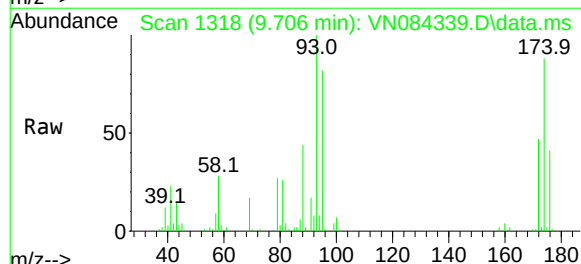
Tgt Ion: 93 Resp: 84017

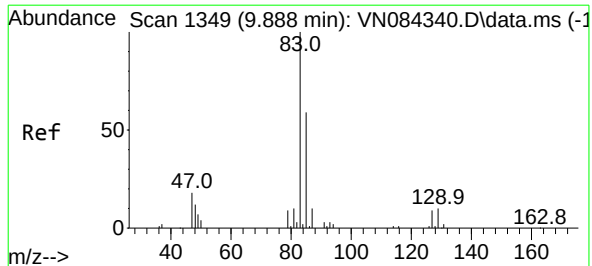
Ion Ratio Lower Upper

93 100

95 83.3 0.0 171.4

174 92.1 0.0 183.0





#41

Bromodichloromethane

Concen: 49.283 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 179758

Ion Ratio Lower Upper

83 100

85 65.9 47.1 70.7

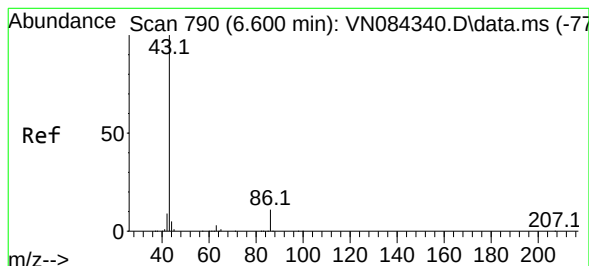
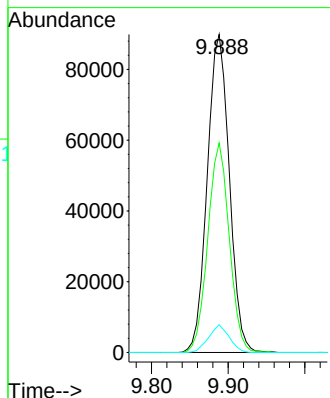
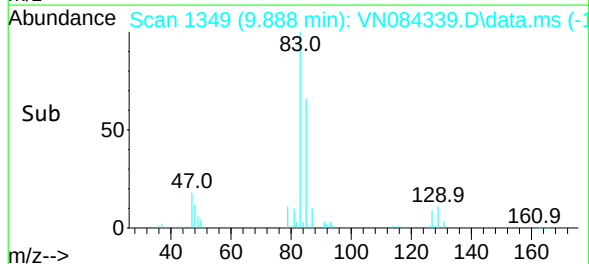
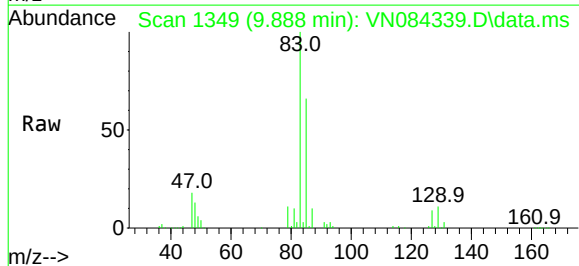
127 8.7 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#42

Vinyl Acetate

Concen: 254.948 ug/l

RT: 6.606 min Scan# 791

Delta R.T. 0.006 min

Lab File: VN084339.D

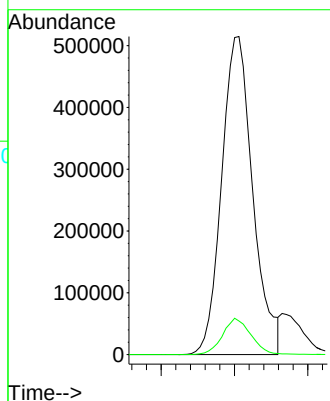
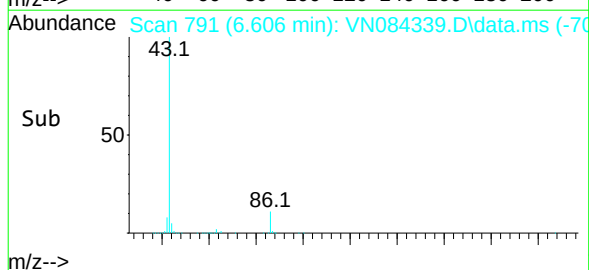
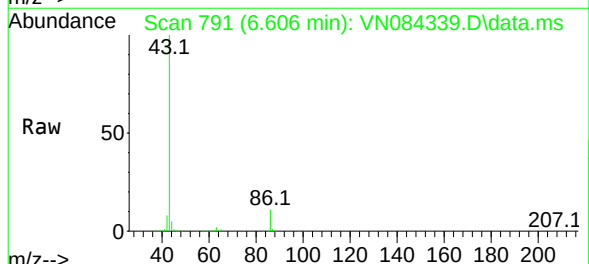
Acq: 08 Oct 2024 10:31

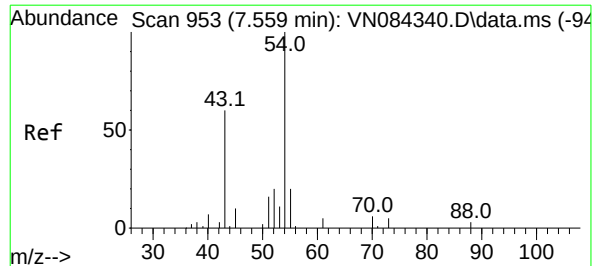
Tgt Ion: 43 Resp: 1520354

Ion Ratio Lower Upper

43 100

86 10.5 8.5 12.7





#43

Ethyl Acetate

Concen: 49.954 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 168929

Ion Ratio Lower Upper

43 100

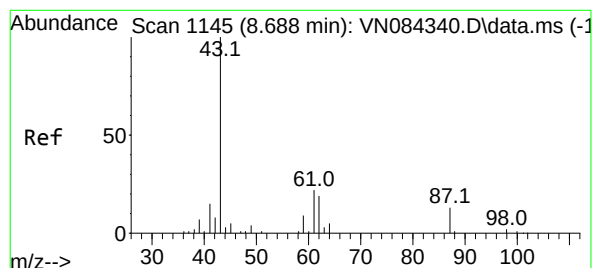
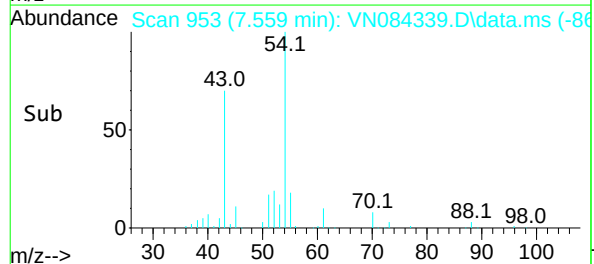
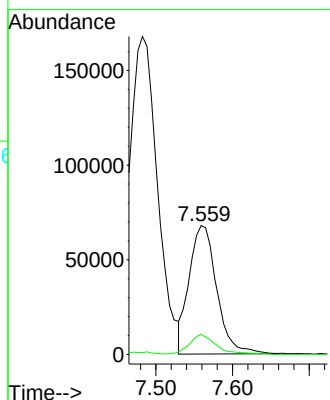
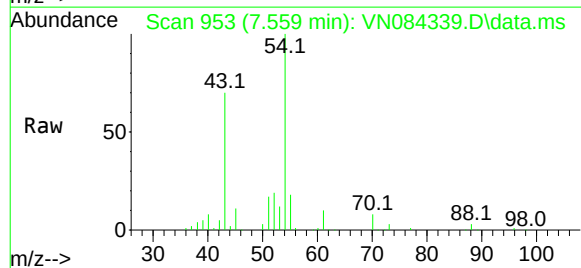
45 15.5 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#44

Isopropyl Acetate

Concen: 50.934 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN084339.D

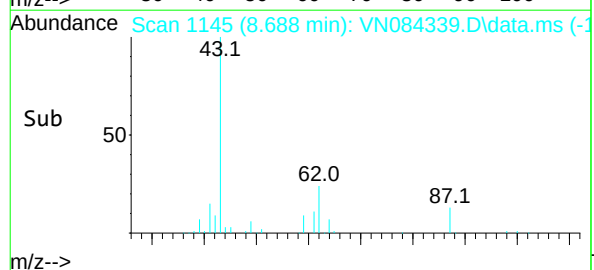
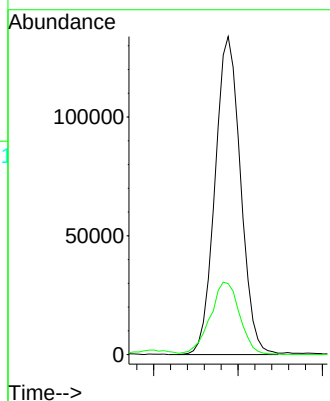
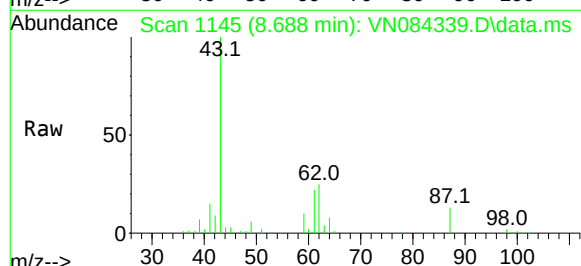
Acq: 08 Oct 2024 10:31

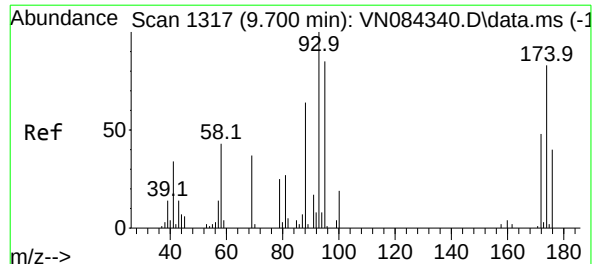
Tgt Ion: 43 Resp: 281915

Ion Ratio Lower Upper

43 100

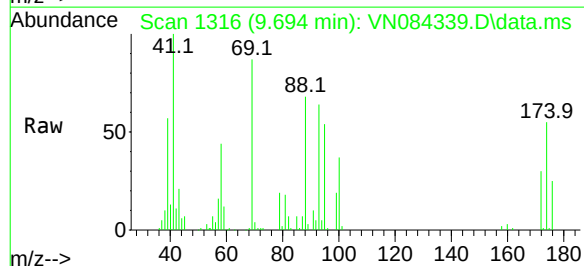
61 26.3 21.4 32.2





#45
1,4-Dioxane
Concen: 1038.003 ug/l
RT: 9.694 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

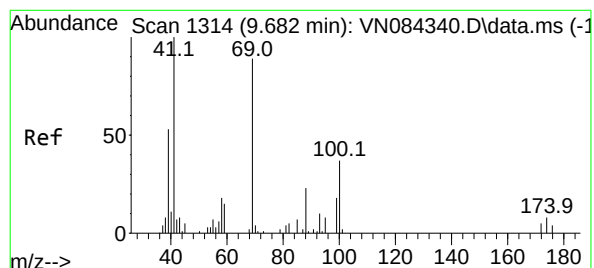
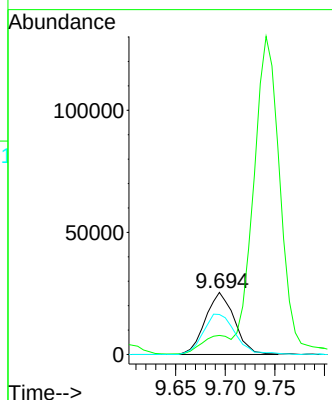
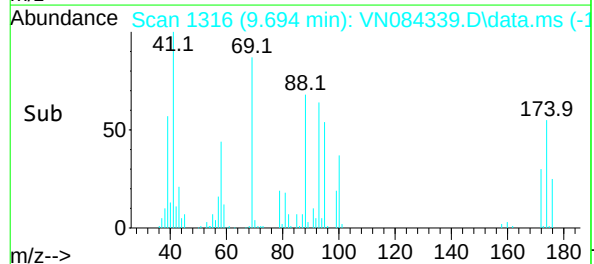
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 88 Resp: 51791
Ion Ratio Lower Upper
88 100
43 30.3 22.4 33.6
58 70.2 59.7 89.5

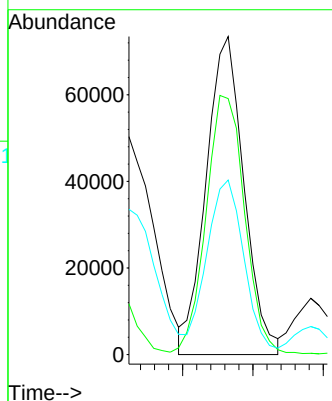
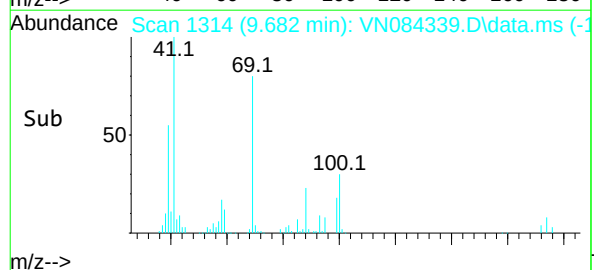
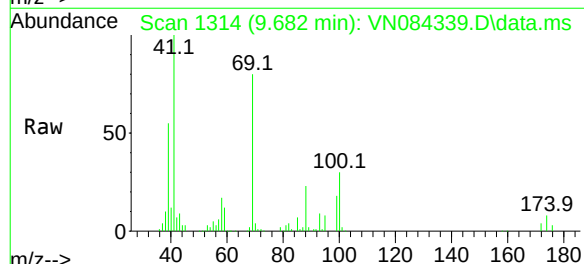
Manual Integrations
APPROVED

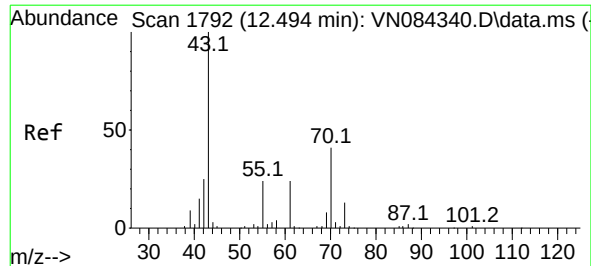
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#46
Methyl methacrylate
Concen: 51.368 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion: 41 Resp: 137372
Ion Ratio Lower Upper
41 100
69 83.1 42.6 128.0
39 55.6 27.5 82.4





#47

n-amy1 Acetate

Concen: 51.073 ug/l

RT: 12.494 min Scan# 17

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 43 Resp: 251442

Ion Ratio Lower Upper

43 100

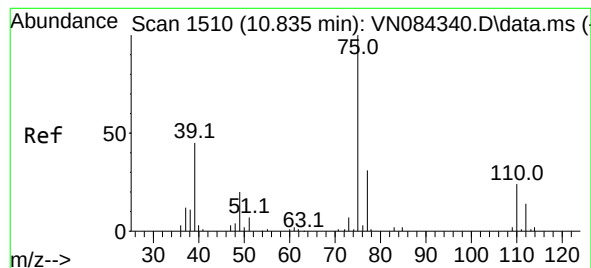
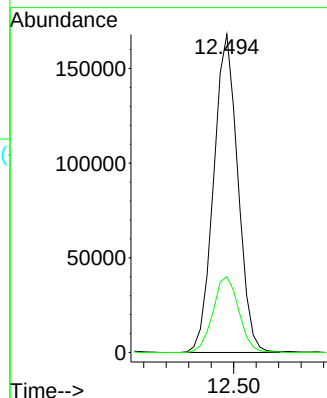
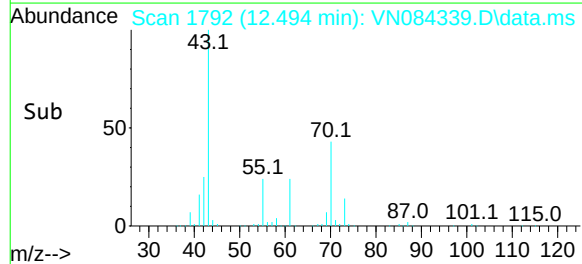
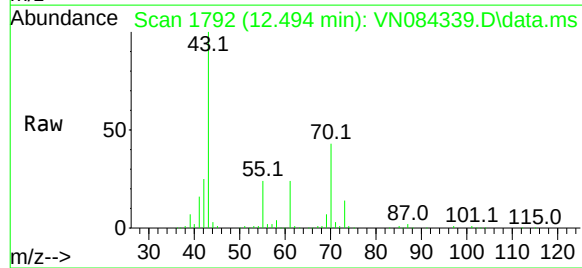
55 25.4 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#48

t-1,3-Dichloropropene

Concen: 49.721 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN084339.D

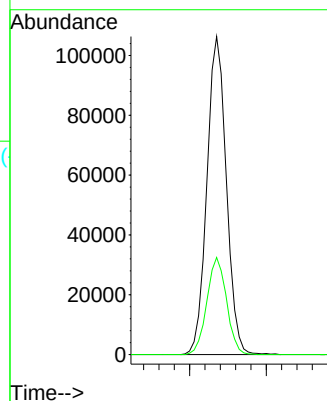
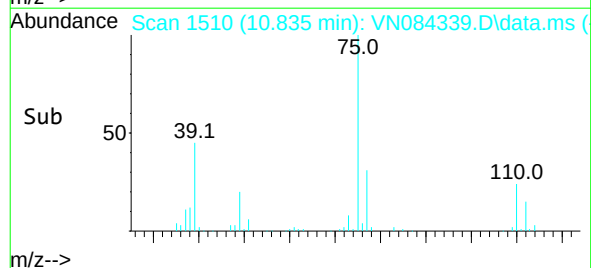
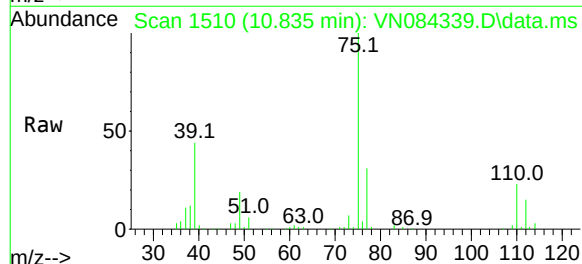
Acq: 08 Oct 2024 10:31

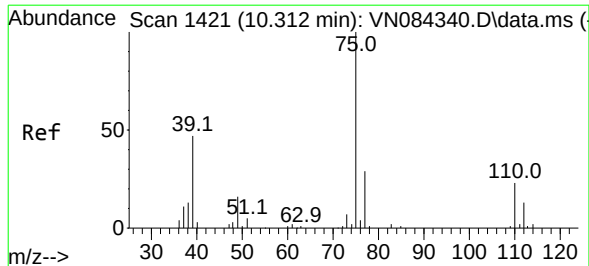
Tgt Ion: 75 Resp: 187402

Ion Ratio Lower Upper

75 100

77 30.5 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 49.908 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN084339.D

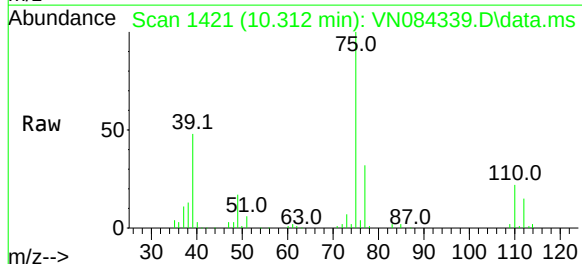
Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

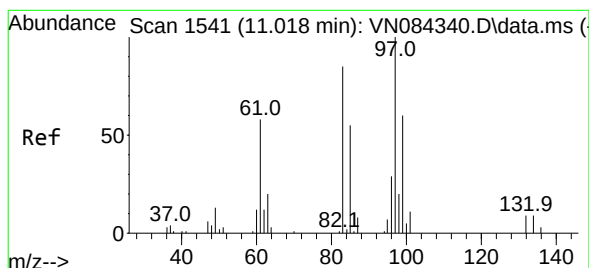
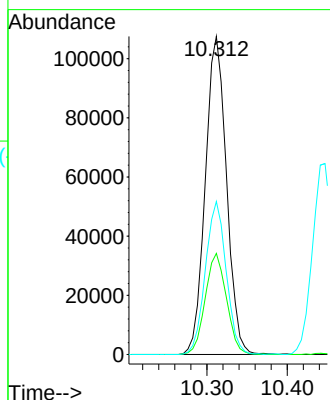
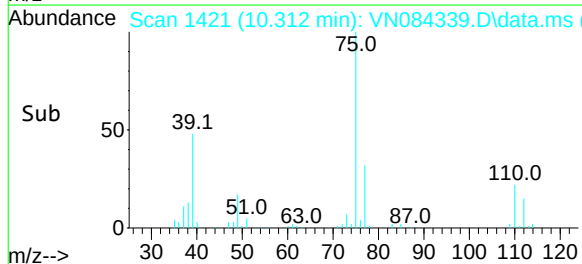
VSTDIC050



Tgt Ion:	75	Resp:	197144
Ion	Ratio	Lower	Upper
75	100		
77	31.8	22.9	34.3
39	48.1	37.4	56.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#50

1,1,2-Trichloroethane

Concen: 49.500 ug/l

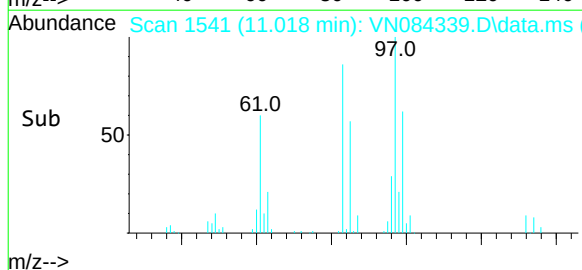
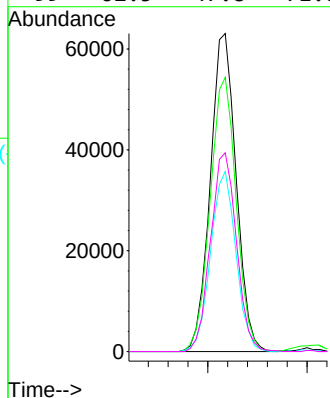
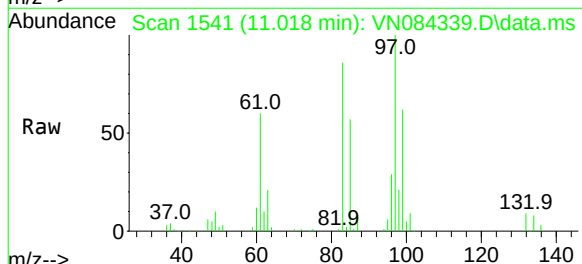
RT: 11.018 min Scan# 1541

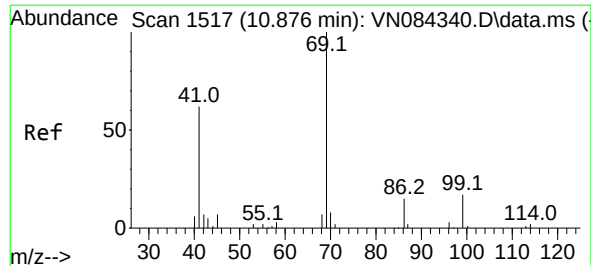
Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	97	Resp:	114315
Ion	Ratio	Lower	Upper
97	100		
83	86.2	67.8	101.8
85	56.6	44.2	66.2
99	62.5	47.8	71.8





#51

Ethyl methacrylate

Concen: 51.907 ug/l

RT: 10.871 min Scan# 1517

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 69 Resp: 198002

Ion Ratio Lower Upper

69 100

41 64.3 30.9 92.7

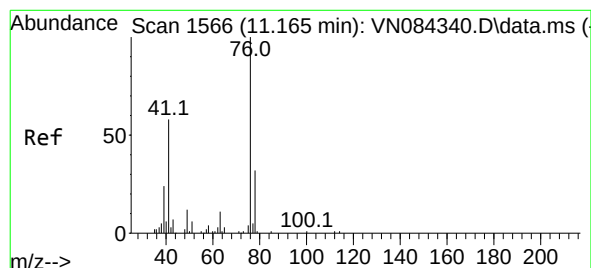
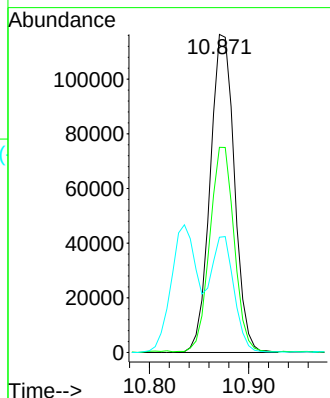
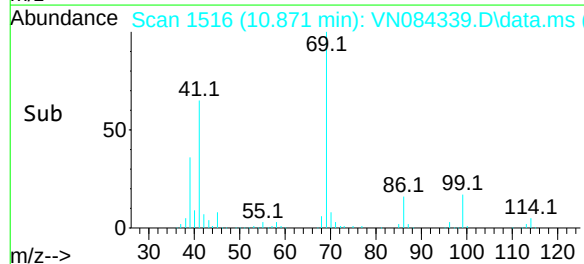
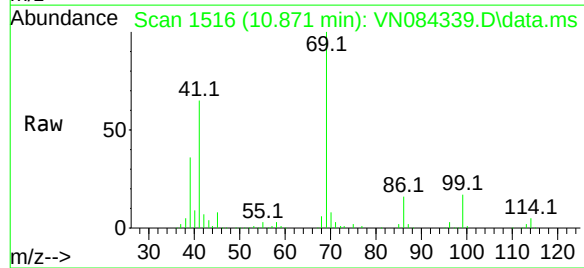
39 36.0 16.6 49.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#52

1,3-Dichloropropane

Concen: 49.119 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN084339.D

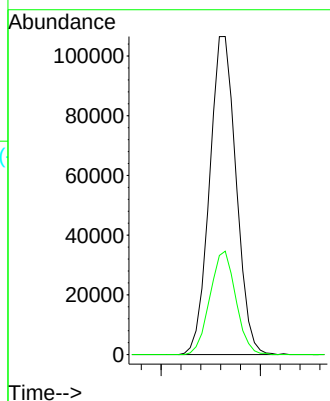
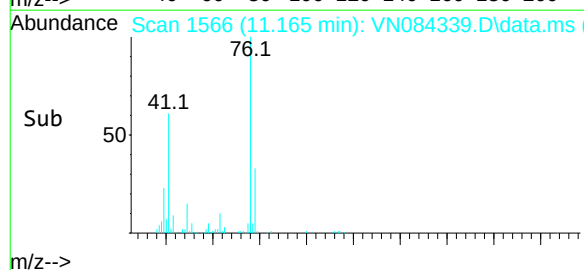
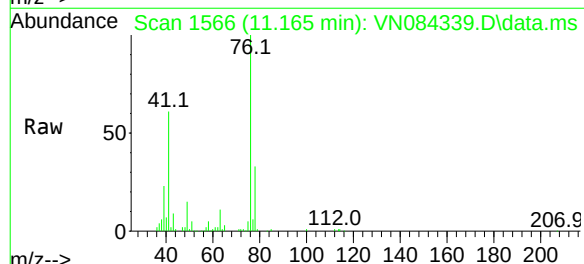
Acq: 08 Oct 2024 10:31

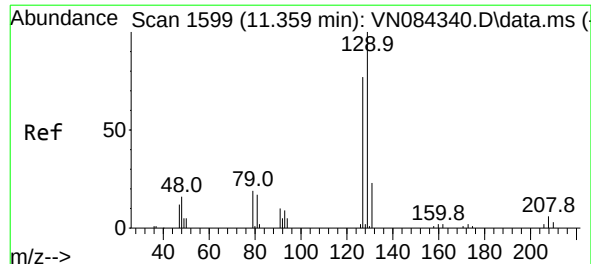
Tgt Ion: 76 Resp: 198343

Ion Ratio Lower Upper

76 100

78 31.6 0.0 64.2





#53

Dibromochloromethane

Concen: 49.816 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:129 Resp: 135901

Ion Ratio Lower Upper

129 100

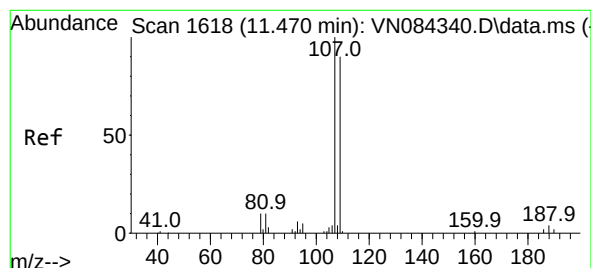
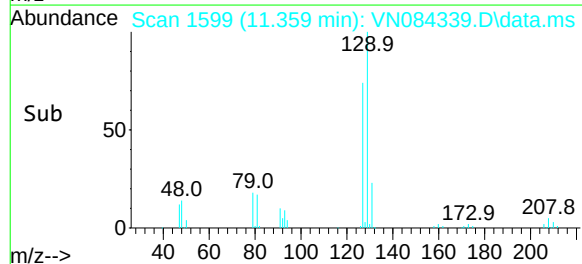
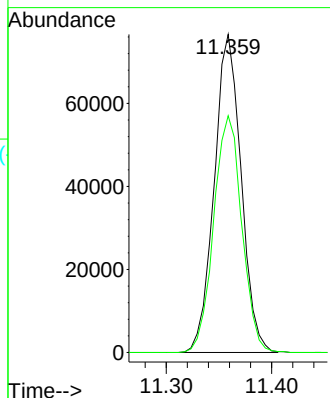
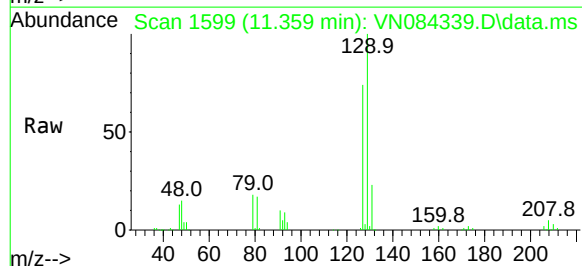
127 77.6 38.5 115.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#54

1,2-Dibromoethane

Concen: 49.693 ug/l

RT: 11.470 min Scan# 1618

Delta R.T. -0.000 min

Lab File: VN084339.D

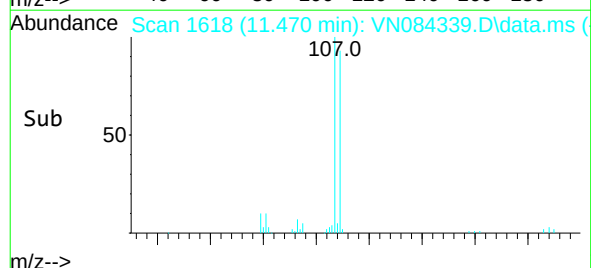
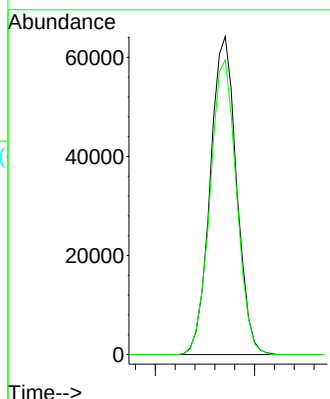
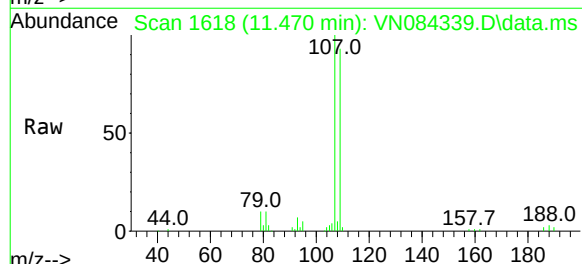
Acq: 08 Oct 2024 10:31

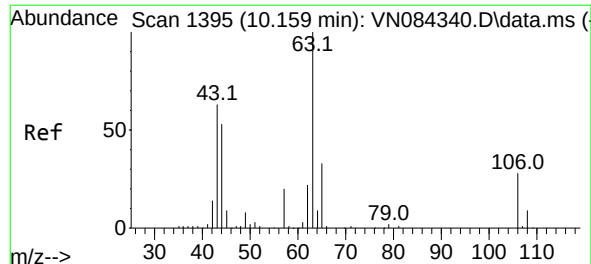
Tgt Ion:107 Resp: 118129

Ion Ratio Lower Upper

107 100

109 93.1 73.8 110.6





#55

2-Chloroethyl vinyl ether

Concen: 254.264 ug/l

RT: 10.159 min Scan# 13

Delta R.T. -0.000 min

Lab File: VN084339.D

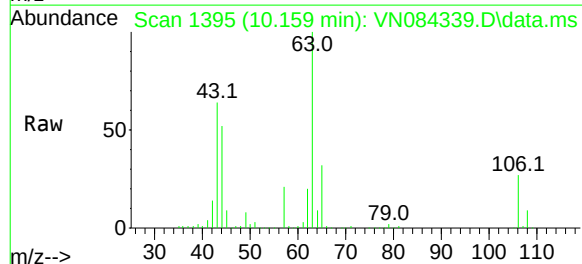
Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

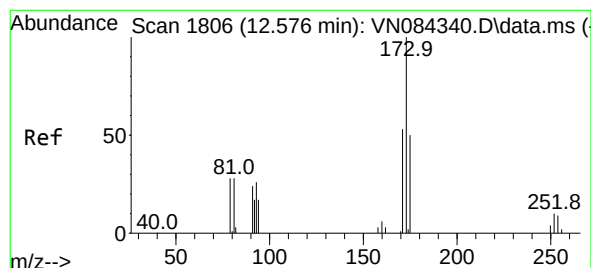
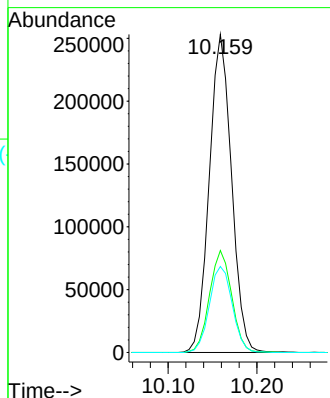
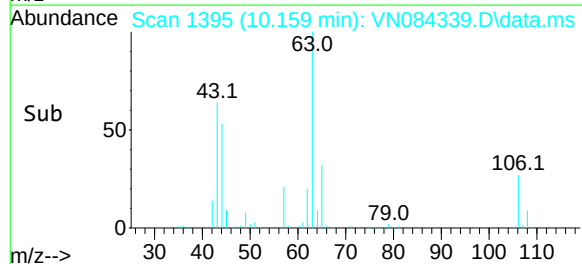
VSTDICC050



Tgt Ion:	63	Resp:	439901
Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.6	38.4
106	27.9	21.6	32.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#56

Bromoform

Concen: 49.851 ug/l

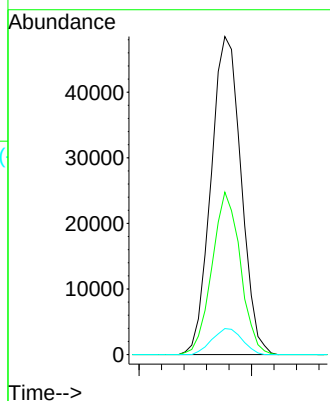
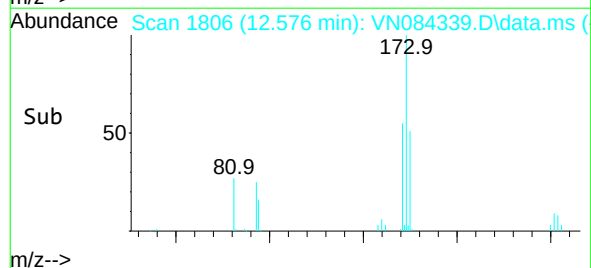
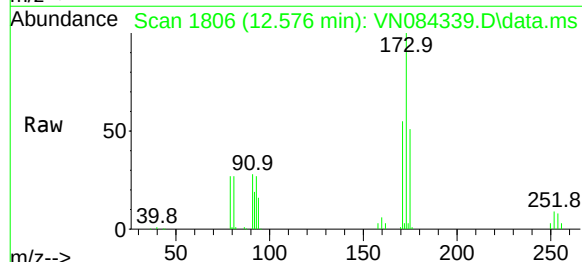
RT: 12.576 min Scan# 1806

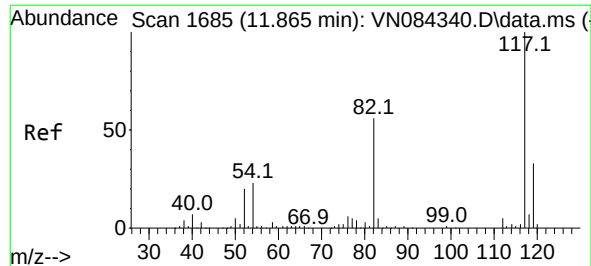
Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	173	Resp:	90199
Ion	Ratio	Lower	Upper
173	100		
175	48.2	39.4	59.2
254	8.2	6.8	10.2





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion:117 Resp: 180971

Ion Ratio Lower Upper

117 100

82 57.5 46.2 69.4

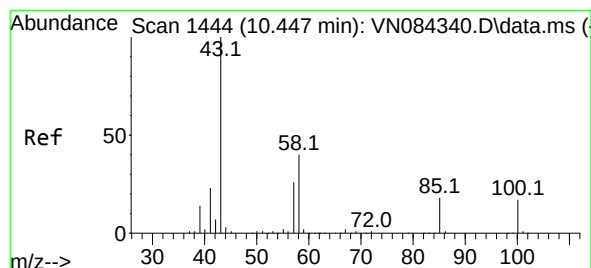
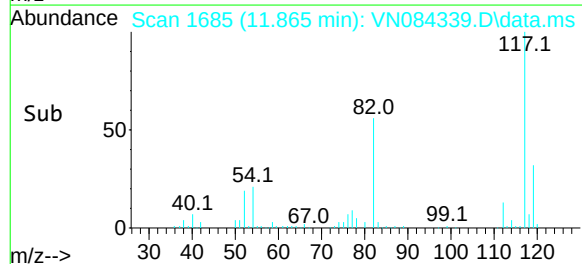
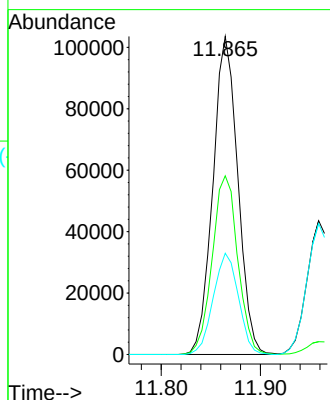
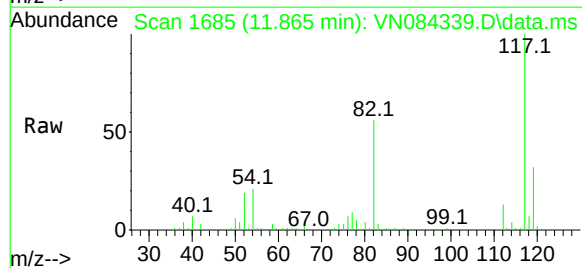
119 32.1 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#58

4-Methyl-2-Pentanone

Concen: 256.442 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

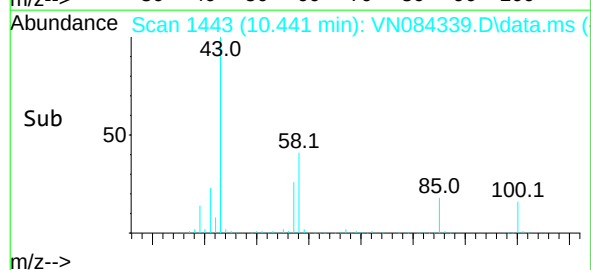
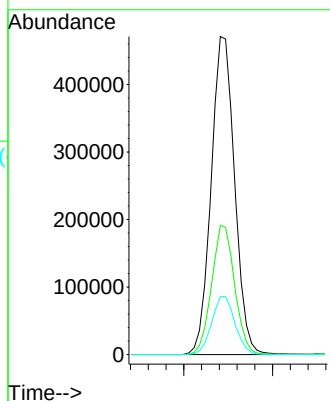
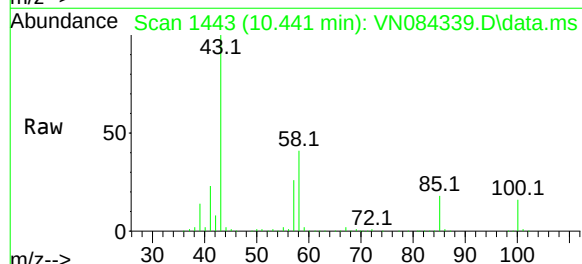
Tgt Ion: 43 Resp: 864518

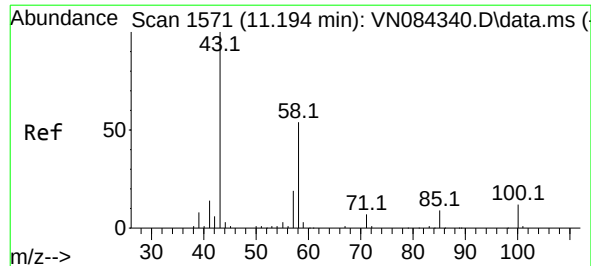
Ion Ratio Lower Upper

43 100

58 39.9 31.9 47.9

85 18.2 14.6 22.0





#59

2-Hexanone

Concen: 261.350 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 654698

Ion Ratio Lower Upper

43 100

58 55.3 44.0 66.0

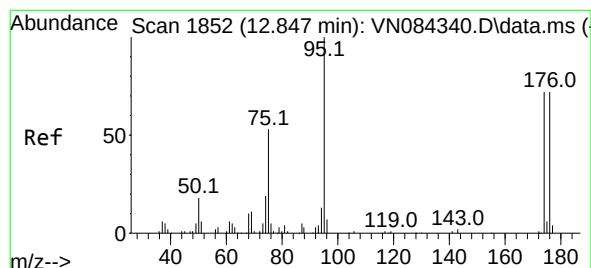
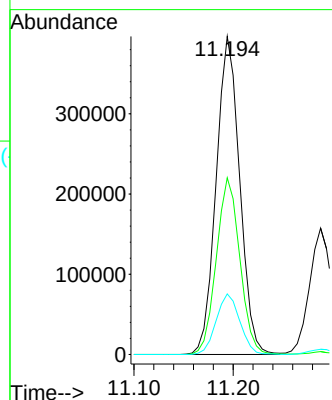
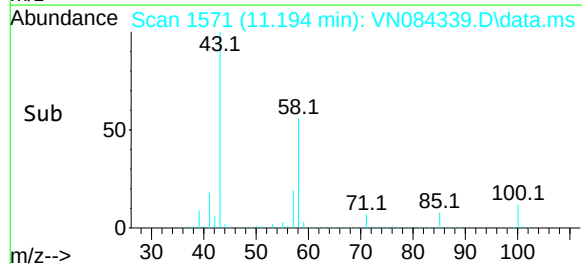
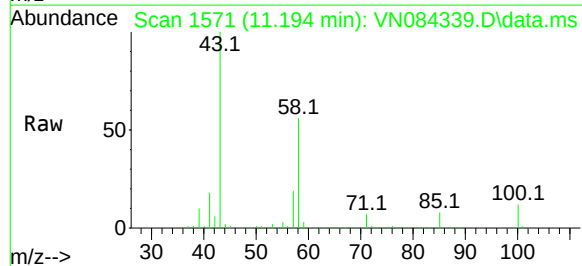
57 19.1 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#60

4-Bromofluorobenzene

Concen: 30.202 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

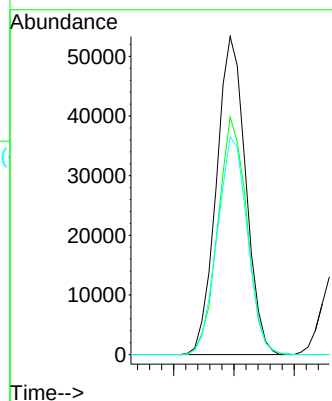
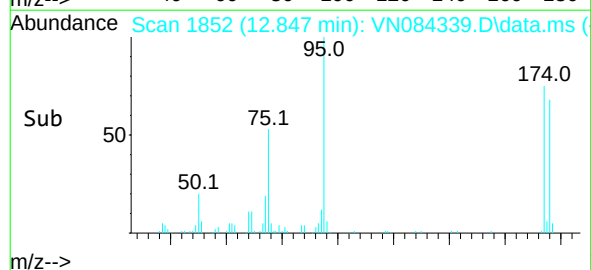
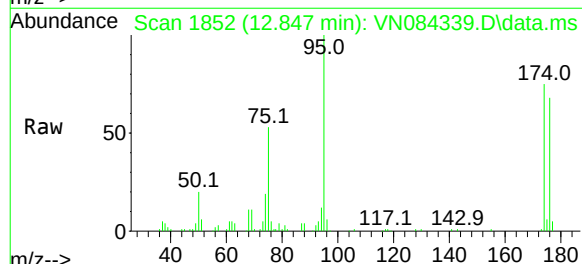
Tgt Ion: 95 Resp: 90206

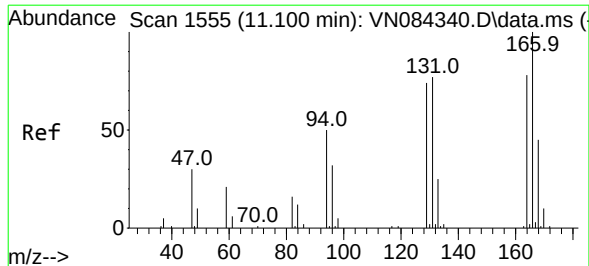
Ion Ratio Lower Upper

95 100

174 73.7 58.2 87.2

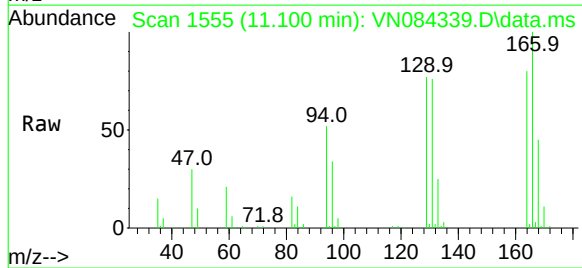
176 70.7 56.4 84.6





#61
Tetrachloroethene
Concen: 48.875 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

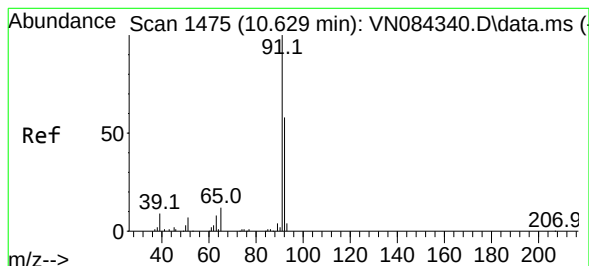
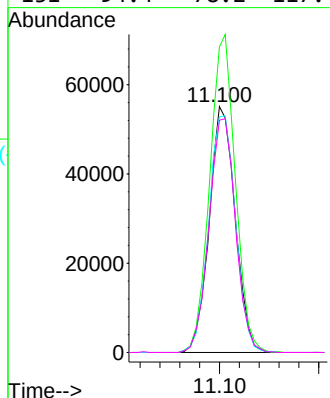
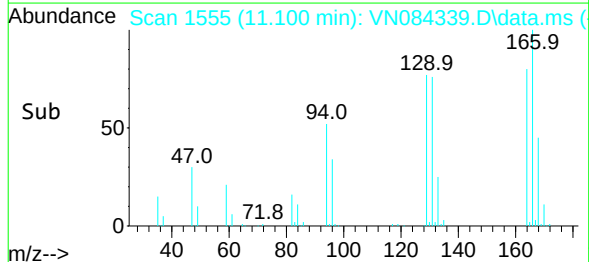
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 164 Resp: 100050
Ion Ratio Lower Upper
164 100
166 124.3 102.5 153.7
129 95.8 75.7 113.5
131 94.4 78.2 117.4

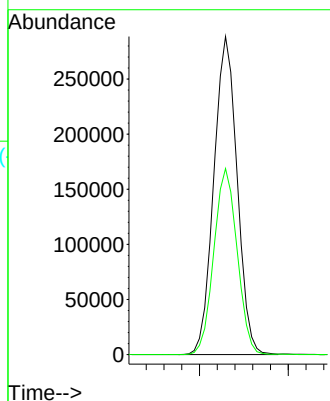
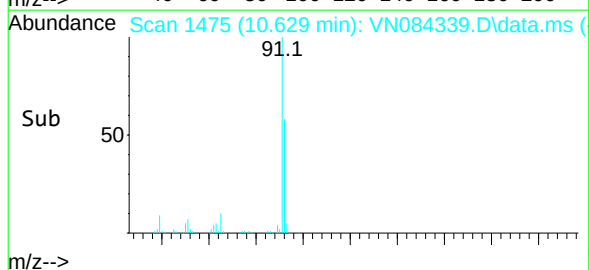
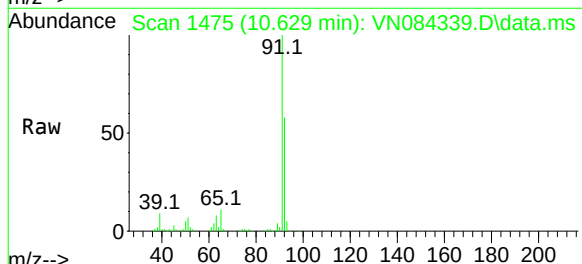
Manual Integrations
APPROVED

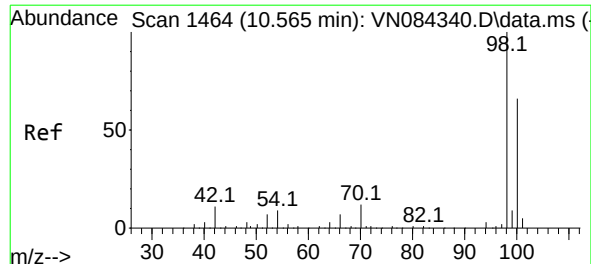
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#62
Toluene
Concen: 49.707 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion: 91 Resp: 526619
Ion Ratio Lower Upper
91 100
92 58.3 47.2 70.8





#63

Toluene-d8

Concen: 29.750 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 98 Resp: 249414

Ion Ratio Lower Upper

98 100

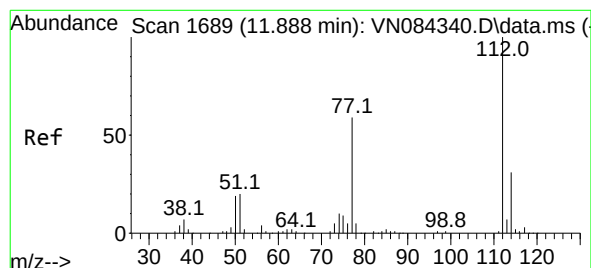
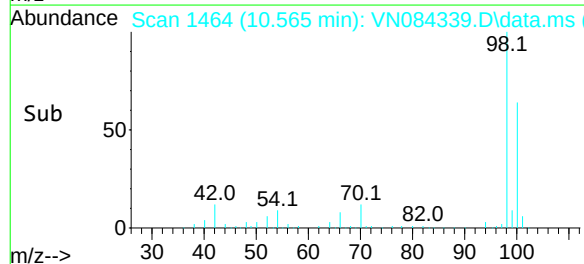
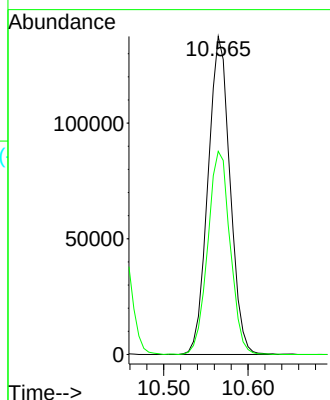
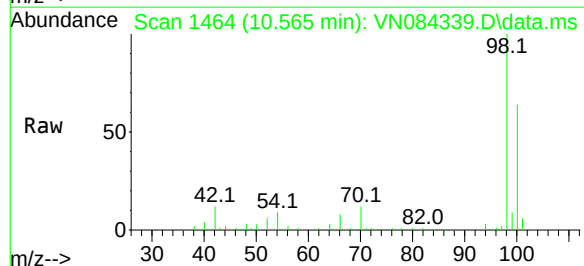
100 64.8 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#64

Chlorobenzene

Concen: 49.023 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN084339.D

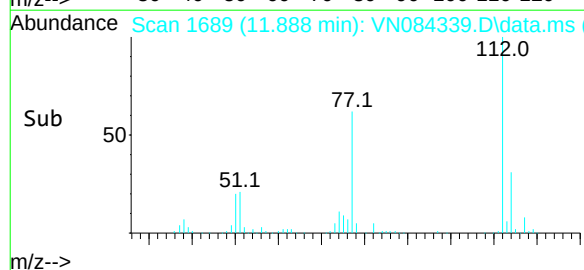
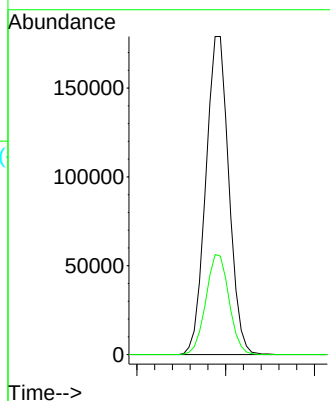
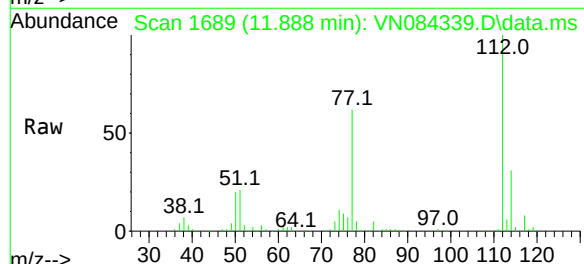
Acq: 08 Oct 2024 10:31

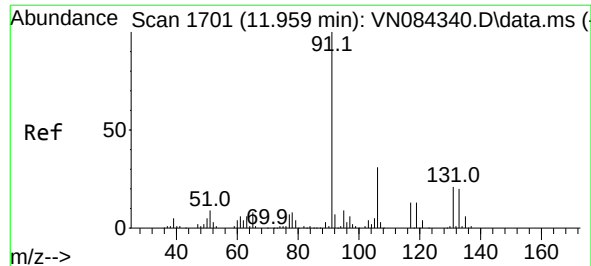
Tgt Ion:112 Resp: 323202

Ion Ratio Lower Upper

112 100

114 31.5 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 50.043 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

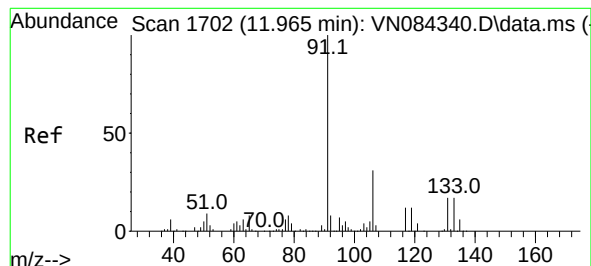
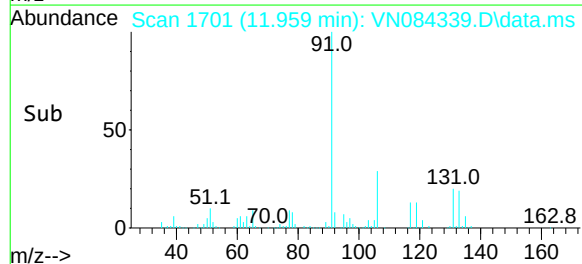
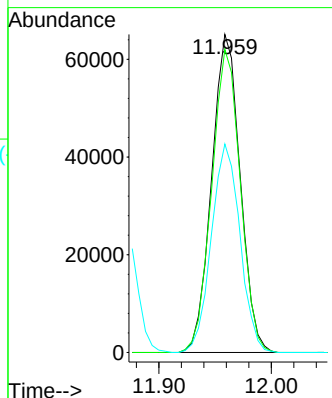
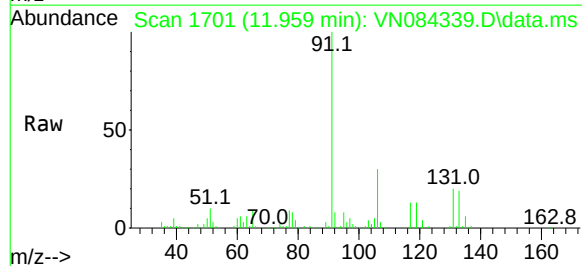
Tgt Ion:	131	Resp:	114617
Ion Ratio	Lower	Upper	
131	100		
133	95.7	0.0	190.4
119	65.8	0.0	130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#66

Ethyl Benzene

Concen: 50.583 ug/l

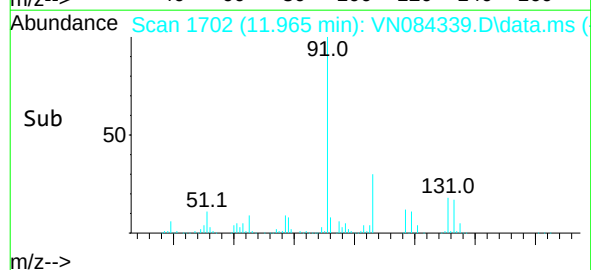
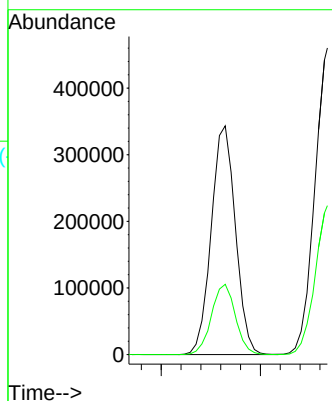
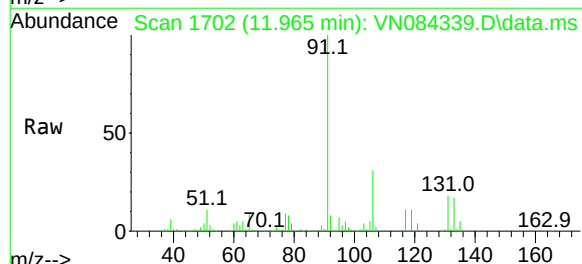
RT: 11.965 min Scan# 1702

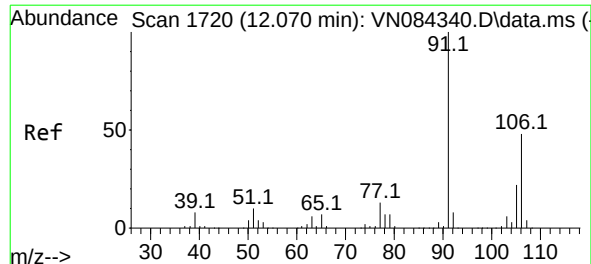
Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	91	Resp:	582229
Ion Ratio	Lower	Upper	
91	100		
106	30.7	25.2	37.8





#67

m/p-Xylenes

Concen: 102.264 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:106 Resp: 446529

Ion Ratio Lower Upper

106 100

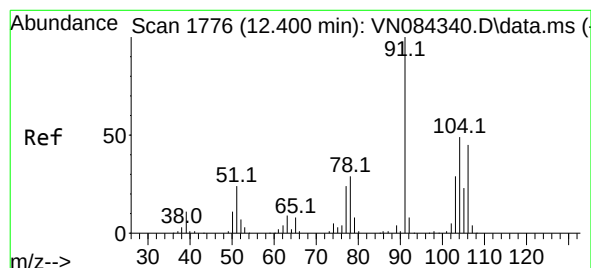
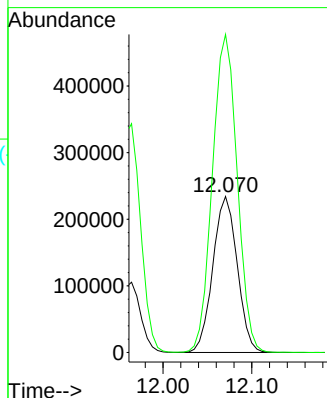
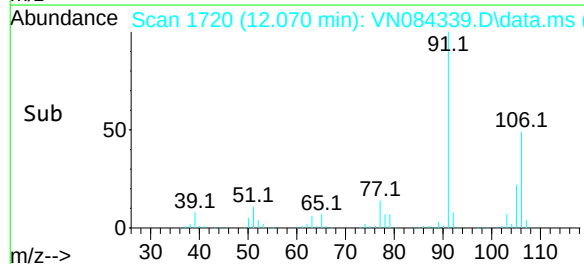
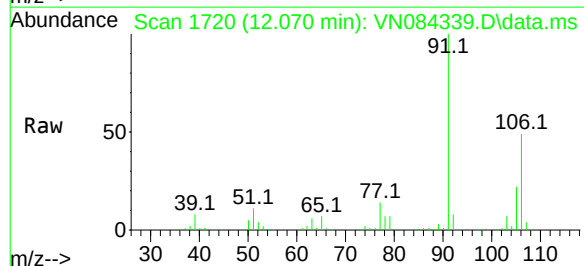
91 207.3 166.7 250.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#68

o-Xylene

Concen: 50.765 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN084339.D

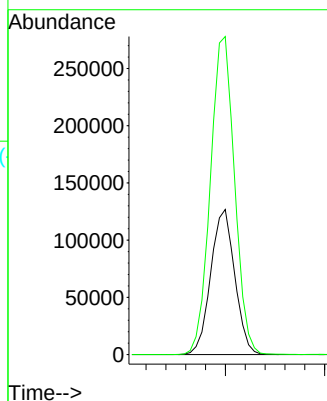
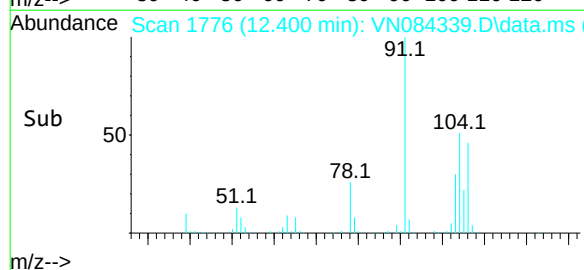
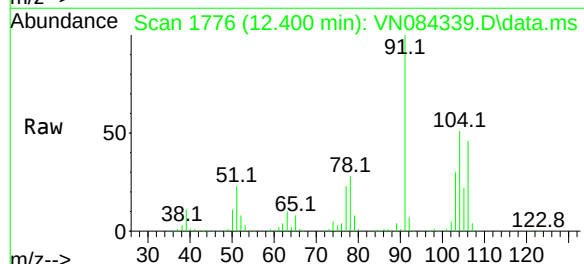
Acq: 08 Oct 2024 10:31

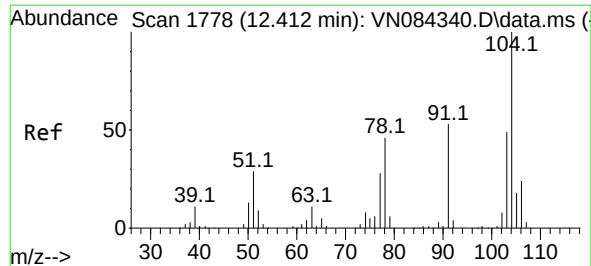
Tgt Ion:106 Resp: 213661

Ion Ratio Lower Upper

106 100

91 220.8 110.9 332.9





#69

Styrene

Concen: 51.169 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

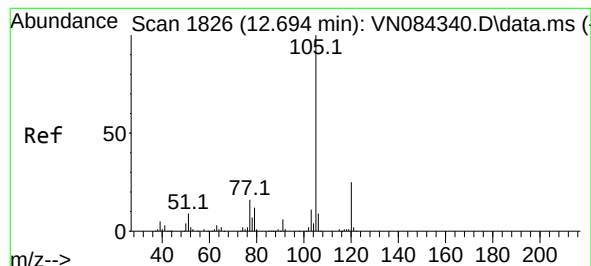
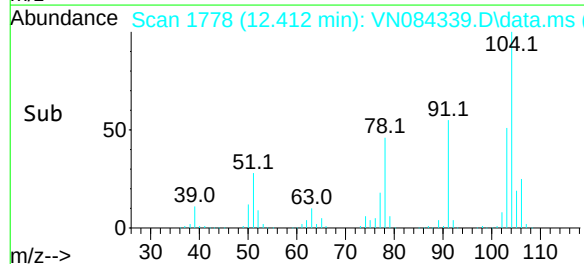
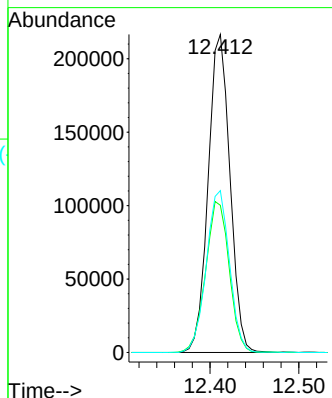
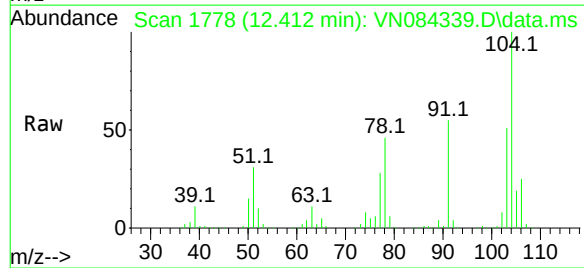
Tgt Ion:	104	Resp:	369695
Ion	Ratio	Lower	Upper
104	100		
78	51.4	41.6	62.4
103	54.2	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#70

Isopropylbenzene

Concen: 50.894 ug/l

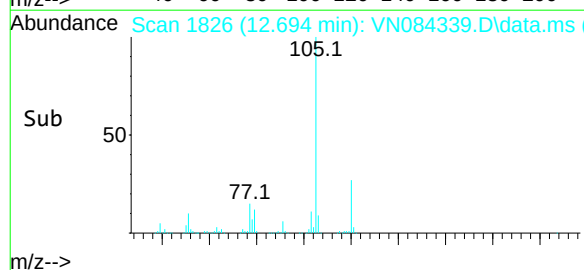
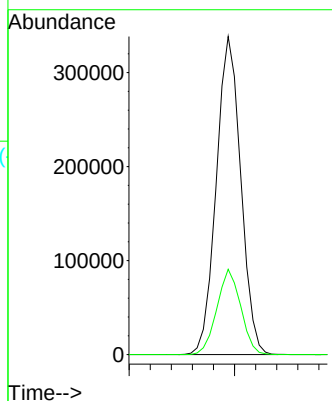
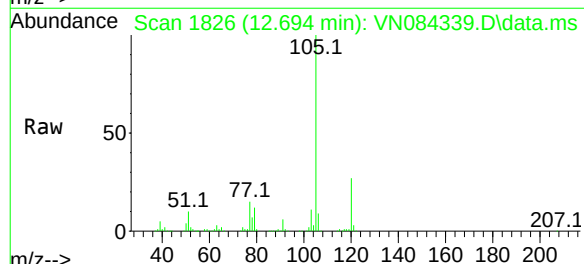
RT: 12.694 min Scan# 1826

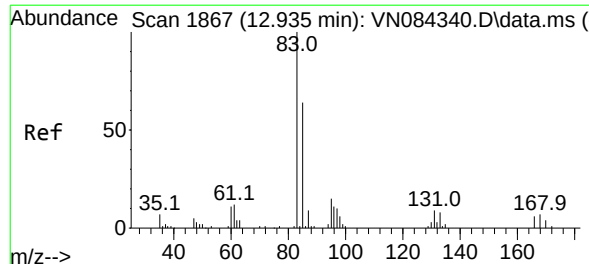
Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	105	Resp:	546834
Ion	Ratio	Lower	Upper
105	100		
120	26.0	17.4	32.4





#71

1,1,2,2-Tetrachloroethane

Concen: 50.500 ug/l

RT: 12.935 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

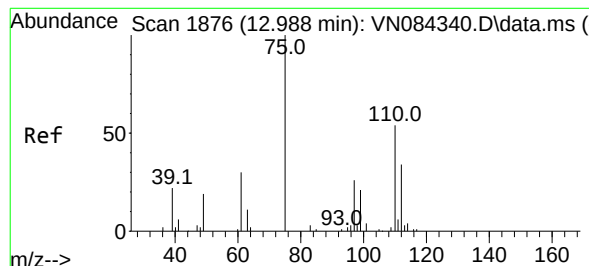
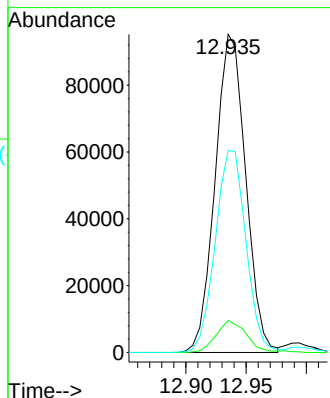
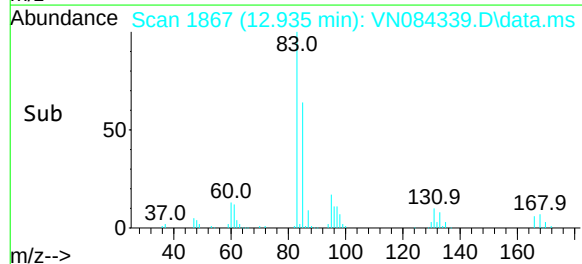
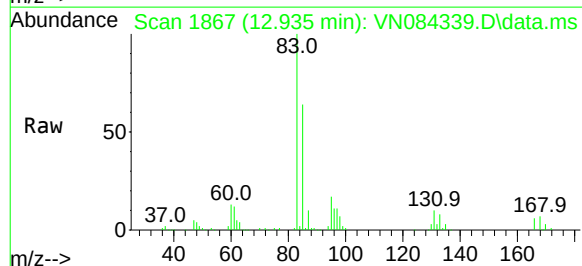
VSTDICC050

Tgt Ion:	83	Resp:	167855
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.3
85	64.0	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#72

1,2,3-Trichloropropane

Concen: 50.872 ug/l m

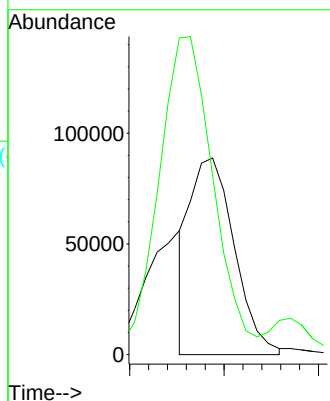
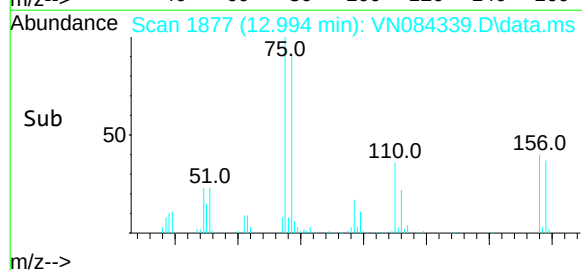
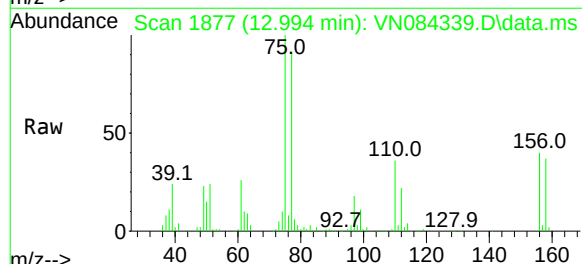
RT: 12.994 min Scan# 1877

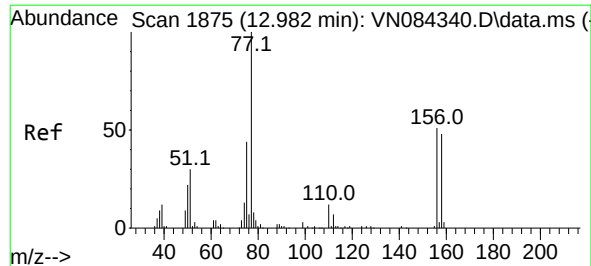
Delta R.T. 0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	75	Resp:	144614
Ion	Ratio	Lower	Upper
75	100		
77	200.7	0.0	414.0





#73

Bromobenzene

Concen: 50.447 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:156 Resp: 131272

Ion Ratio Lower Upper

156 100

77 221.1 0.0 451.0

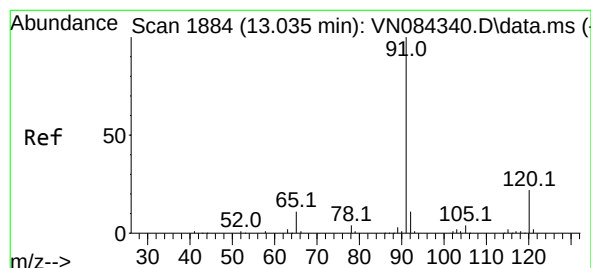
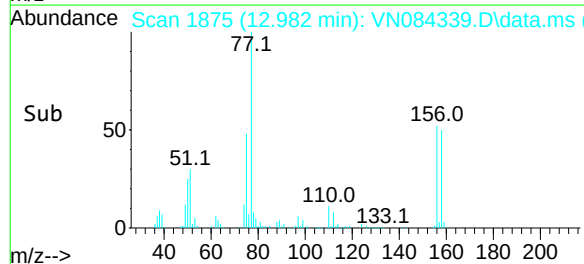
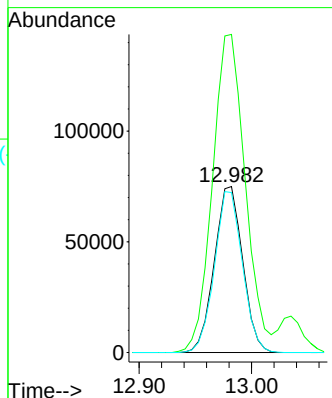
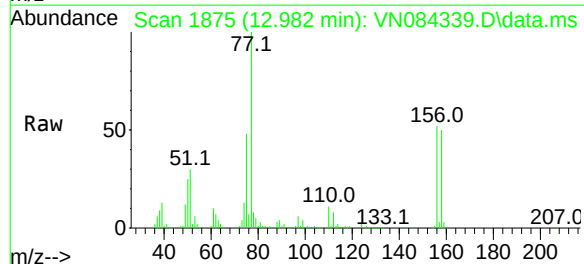
158 95.7 0.0 194.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#74

n-propylbenzene

Concen: 50.836 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN084339.D

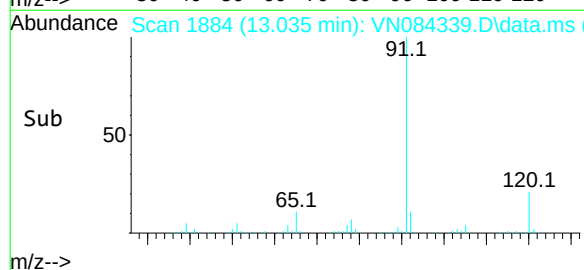
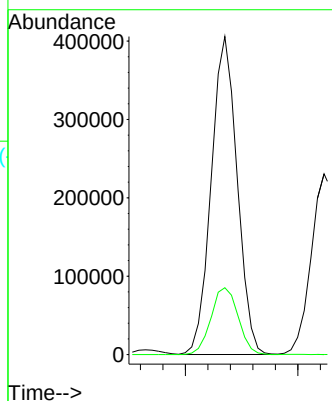
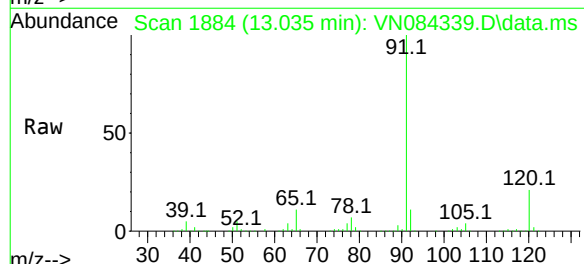
Acq: 08 Oct 2024 10:31

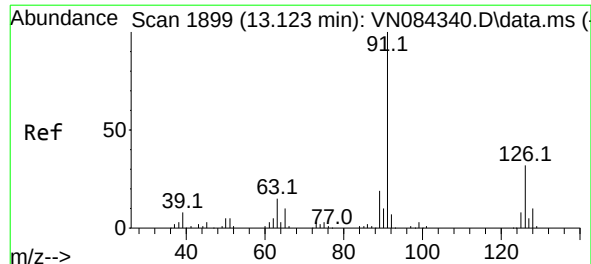
Tgt Ion: 91 Resp: 650890

Ion Ratio Lower Upper

91 100

120 22.0 0.0 43.2





#75

2-Chlorotoluene

Concen: 49.834 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 91 Resp: 396493

Ion Ratio Lower Upper

91 100

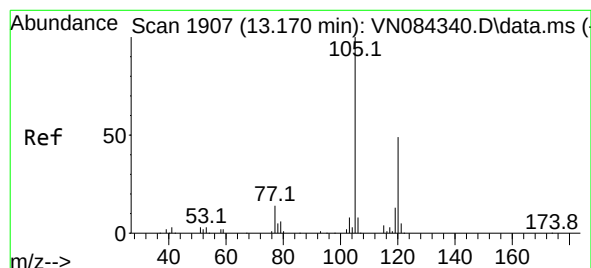
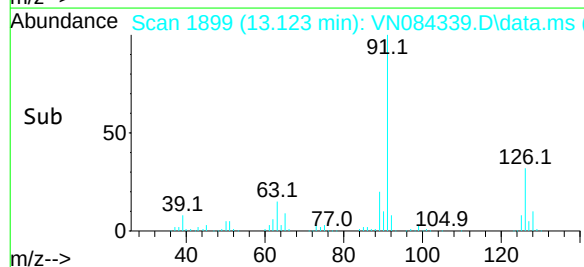
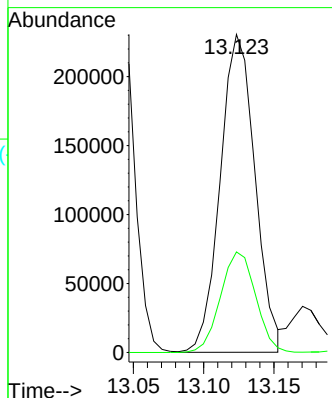
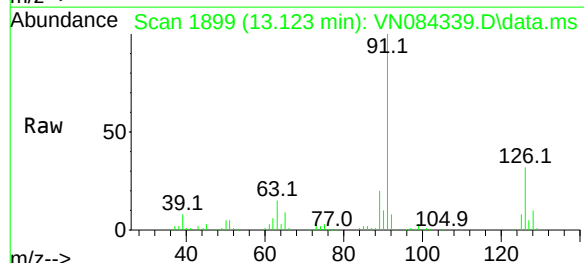
126 32.0 0.0 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#76

1,3,5-Trimethylbenzene

Concen: 51.064 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084339.D

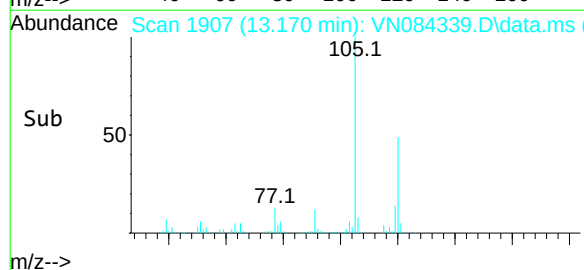
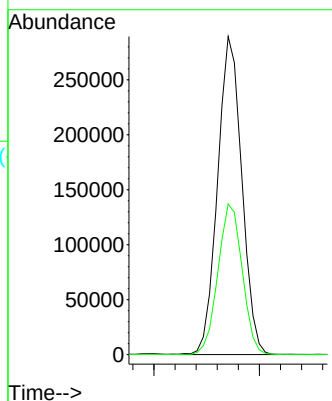
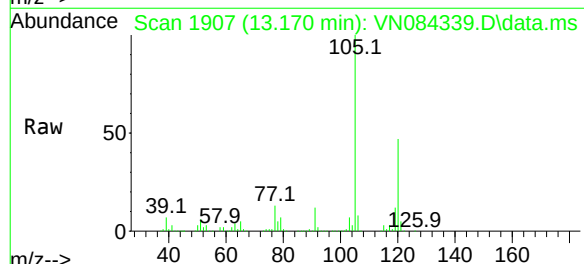
Acq: 08 Oct 2024 10:31

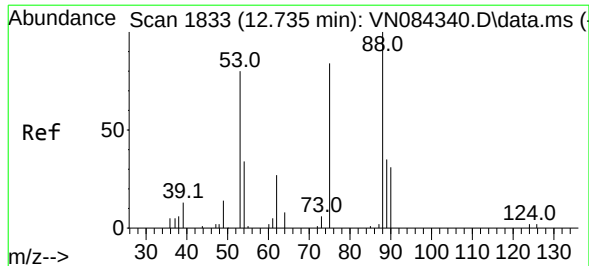
Tgt Ion:105 Resp: 461964

Ion Ratio Lower Upper

105 100

120 47.5 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 52.330 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN084339.D

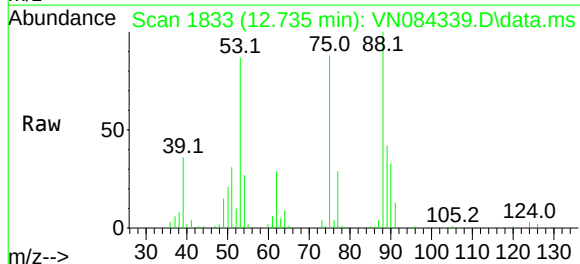
Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

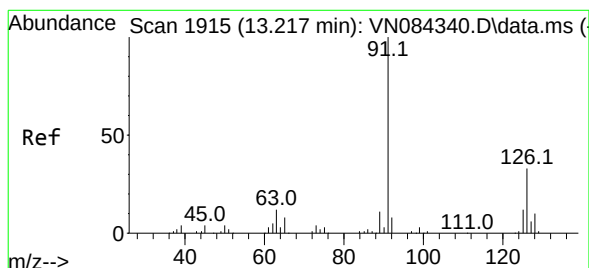
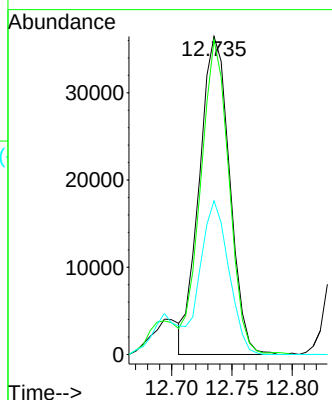
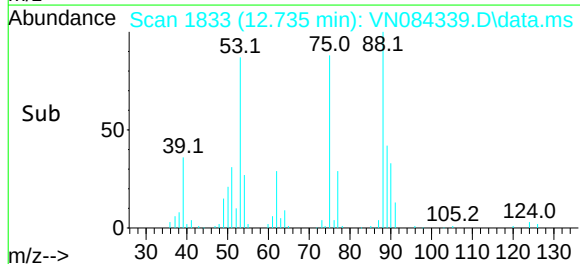
VSTDIC050



Tgt Ion:	75	Resp:	63656
Ion	Ratio	Lower	Upper
75	100		
53	98.3	47.3	142.0
89	48.3	22.9	68.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#78

4-Chlorotoluene

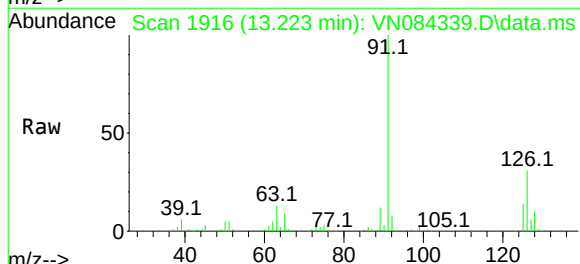
Concen: 50.410 ug/l

RT: 13.223 min Scan# 1916

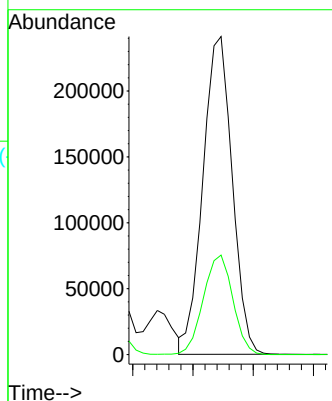
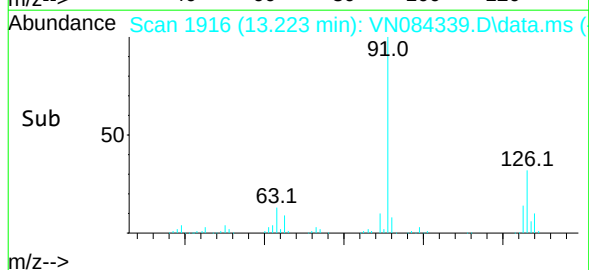
Delta R.T. 0.006 min

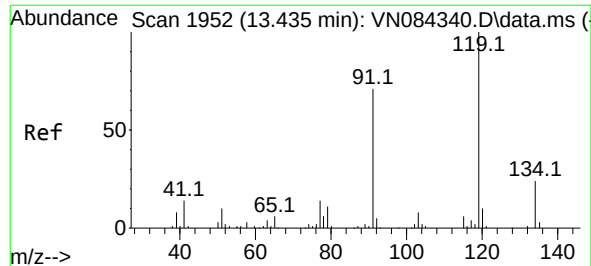
Lab File: VN084339.D

Acq: 08 Oct 2024 10:31



Tgt Ion:	91	Resp:	407771
Ion	Ratio	Lower	Upper
91	100		
126	31.6	0.0	62.4





#79

tert-butylbenzene

Concen: 51.169 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion:119 Resp: 394929

Ion Ratio Lower Upper

119 100

91 67.6 0.0 138.0

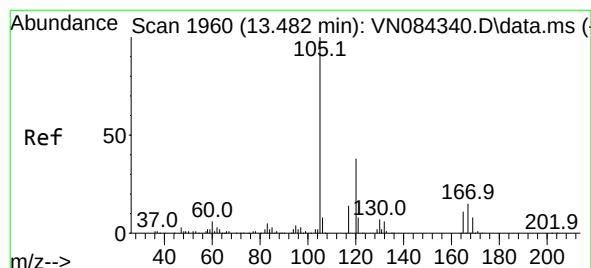
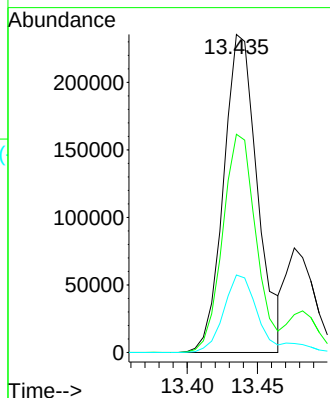
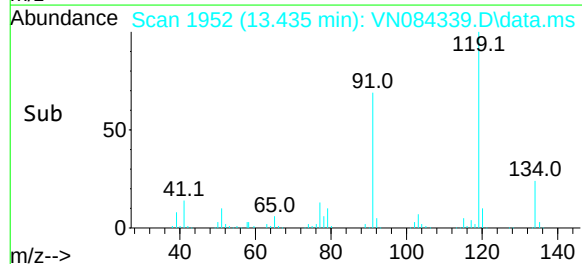
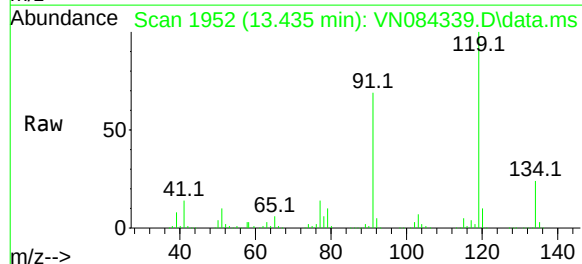
134 23.6 0.0 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#80

1,2,4-Trimethylbenzene

Concen: 50.939 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN084339.D

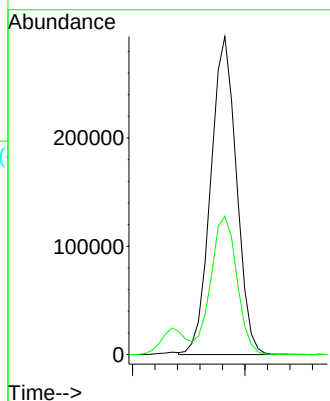
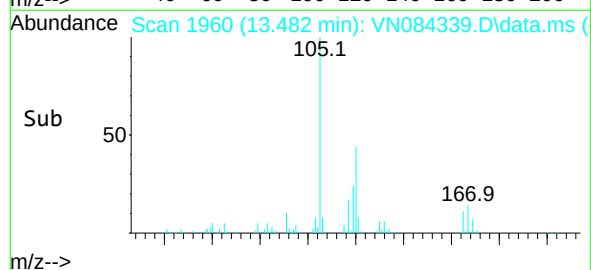
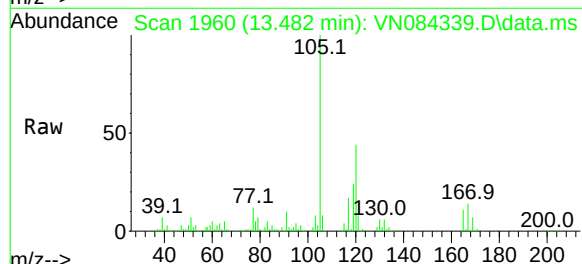
Acq: 08 Oct 2024 10:31

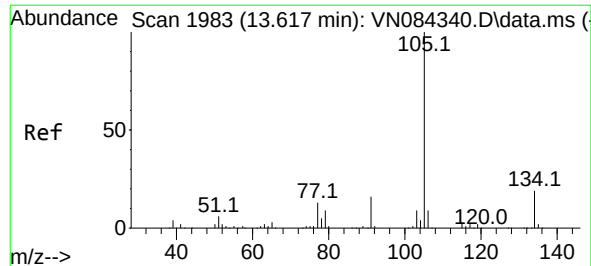
Tgt Ion:105 Resp: 467589

Ion Ratio Lower Upper

105 100

120 44.1 0.0 88.8





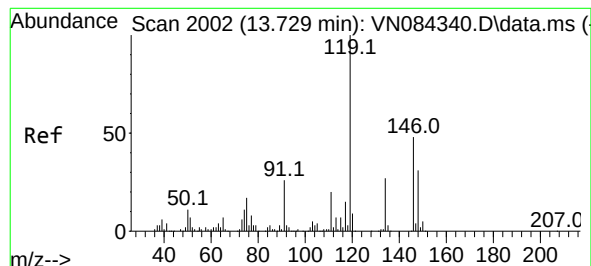
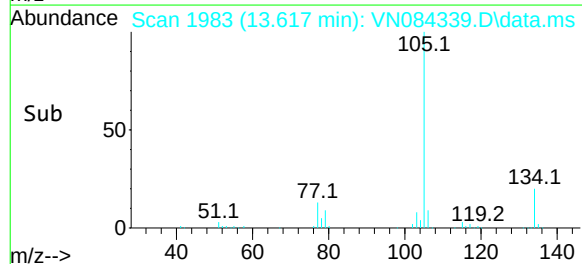
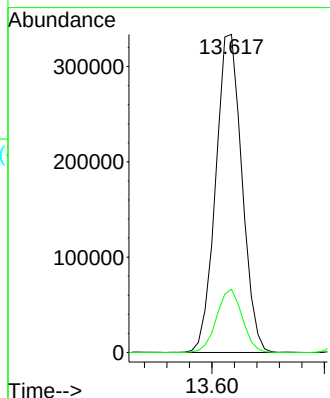
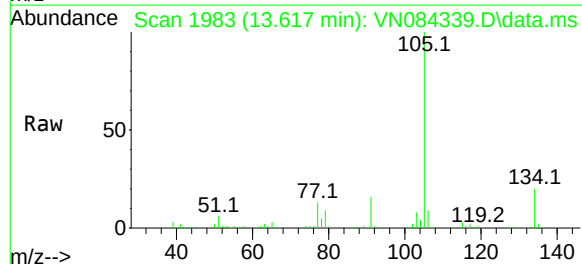
#81
sec-Butylbenzene
Concen: 50.934 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:105 Resp: 541224
Ion Ratio Lower Upper
105 100
134 19.4 0.0 38.0

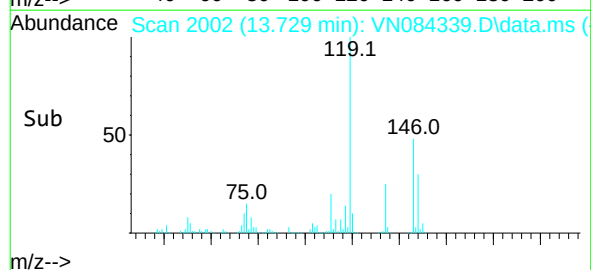
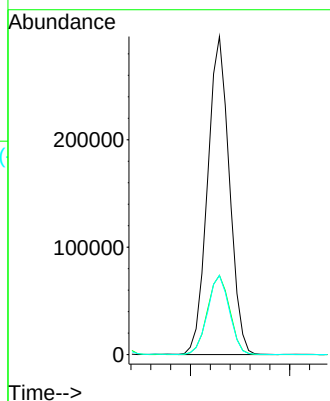
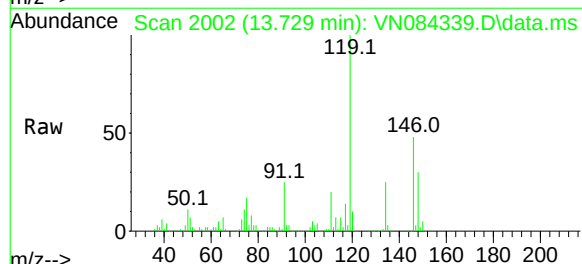
Manual Integrations
APPROVED

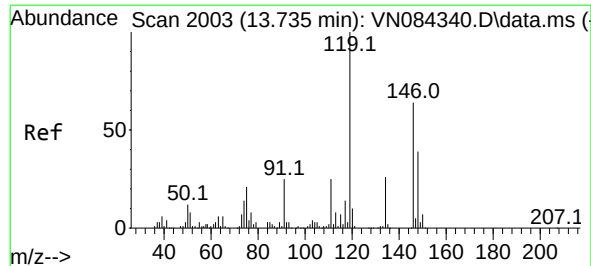
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#82
p-Isopropyltoluene
Concen: 50.537 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN084339.D
Acq: 08 Oct 2024 10:31

Tgt Ion:119 Resp: 451993
Ion Ratio Lower Upper
119 100
134 25.4 0.0 50.2
91 24.9 0.0 50.6





#83

1,3-Dichlorobenzene

Concen: 50.374 ug/l

RT: 13.729 min Scan# 2003

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 243731

Ion Ratio Lower Upper

146 100

111 41.9 20.6 61.9

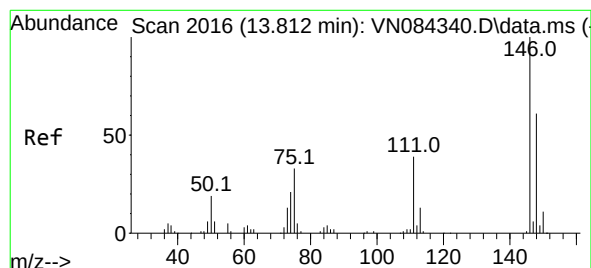
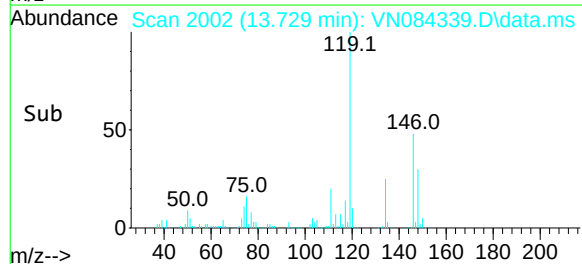
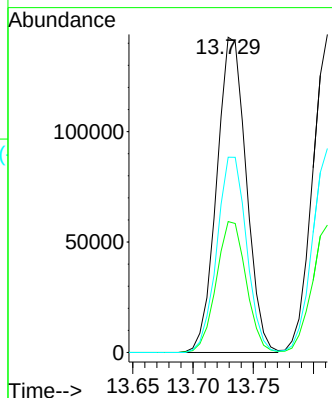
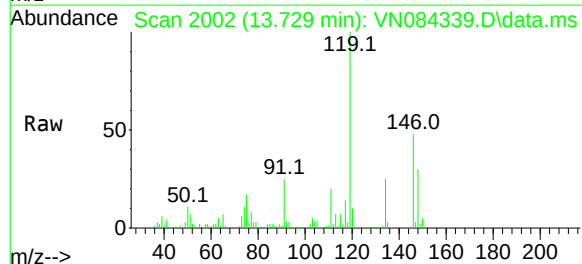
148 62.2 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#84

1,4-Dichlorobenzene

Concen: 49.452 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

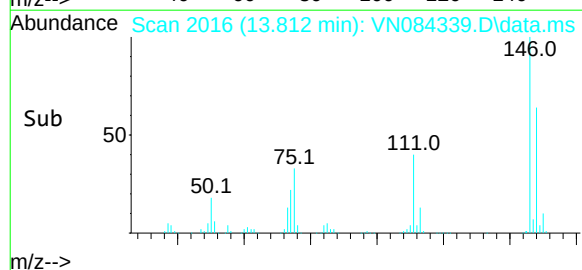
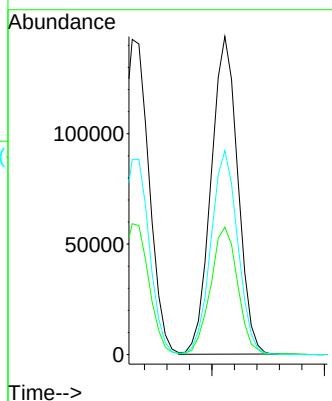
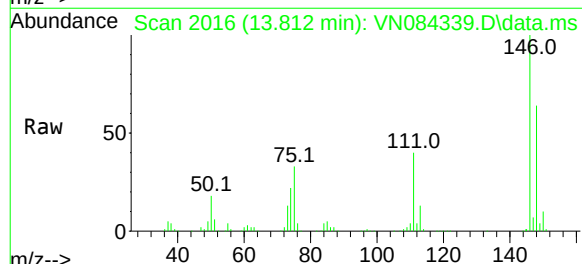
Tgt Ion:146 Resp: 237600

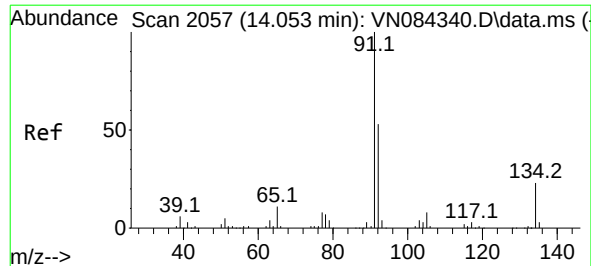
Ion Ratio Lower Upper

146 100

111 40.5 20.5 61.5

148 64.4 32.5 97.4





#85

n-Butylbenzene

Concen: 50.679 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

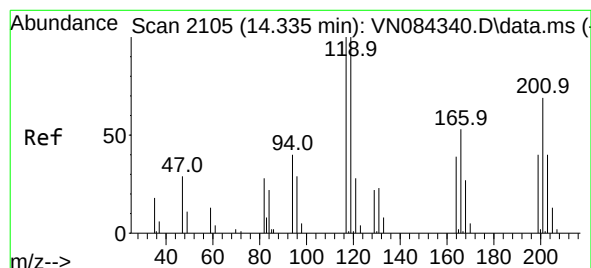
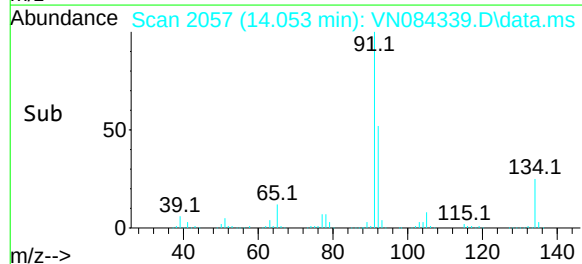
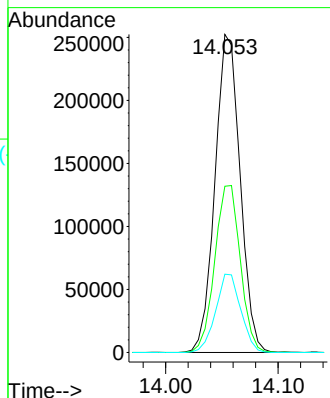
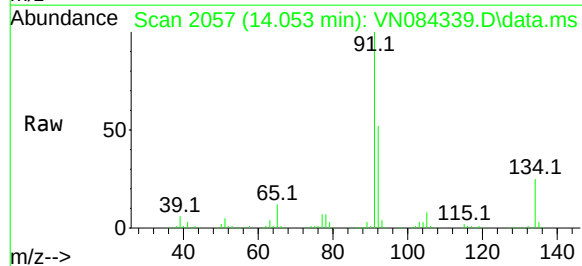
VSTDIC050

Tgt Ion:	91	Resp:	392578
Ion	Ratio	Lower	Upper
91	100		
92	53.3	0.0	103.4
134	24.5	0.0	48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#86

Hexachloroethane

Concen: 49.410 ug/l

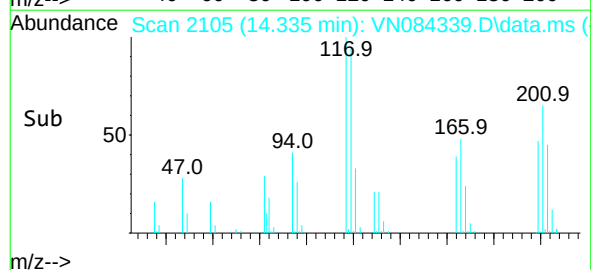
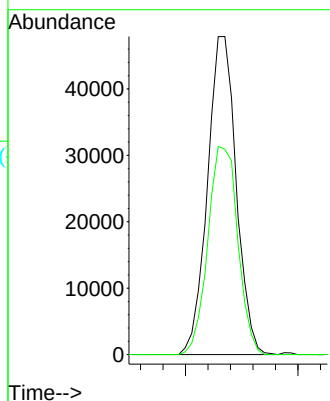
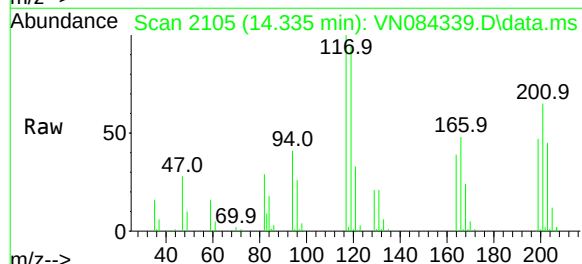
RT: 14.335 min Scan# 2105

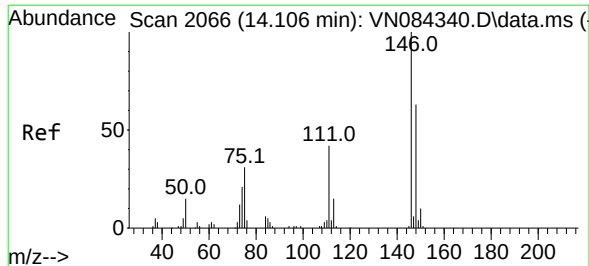
Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	117	Resp:	85140
Ion	Ratio	Lower	Upper
117	100		
201	67.8	33.9	101.6





#87

1,2-Dichlorobenzene

Concen: 50.280 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion:146 Resp: 235213

Ion Ratio Lower Upper

146 100

111 43.4 21.9 65.5

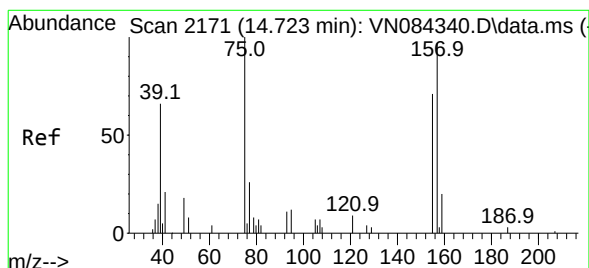
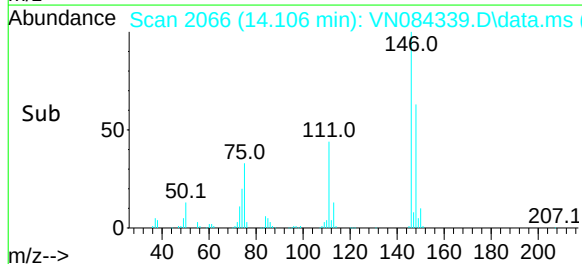
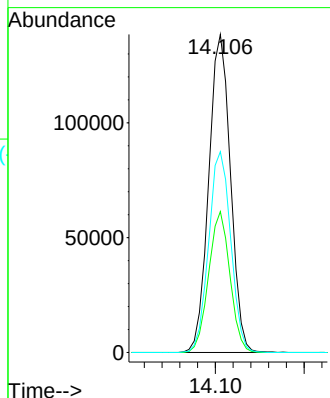
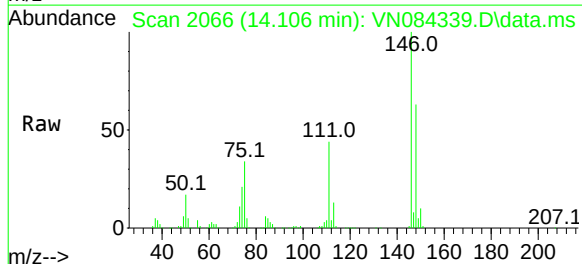
148 64.2 31.1 93.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 52.891 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

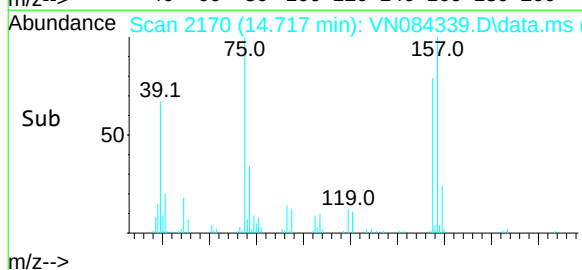
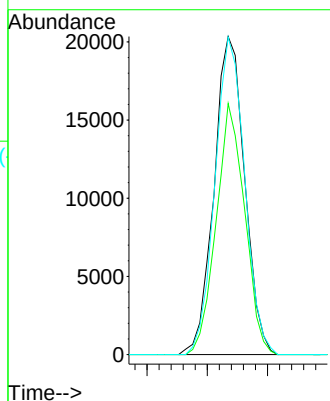
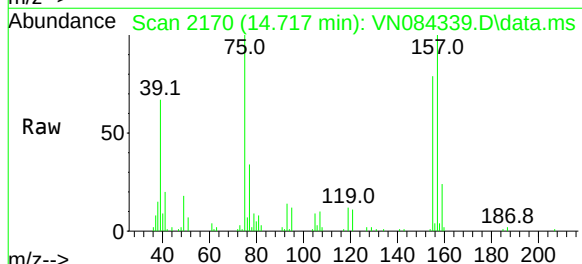
Tgt Ion: 75 Resp: 35951

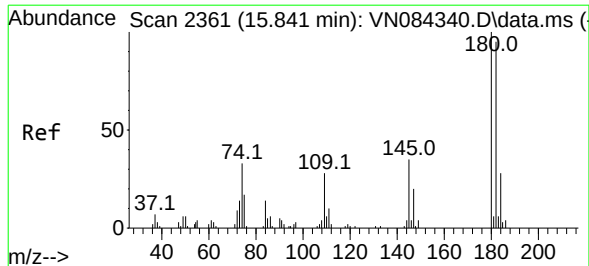
Ion Ratio Lower Upper

75 100

155 73.4 61.8 92.8

157 96.7 77.4 116.0





#89

1,2,4-Trichlorobenzene

Concen: 50.816 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

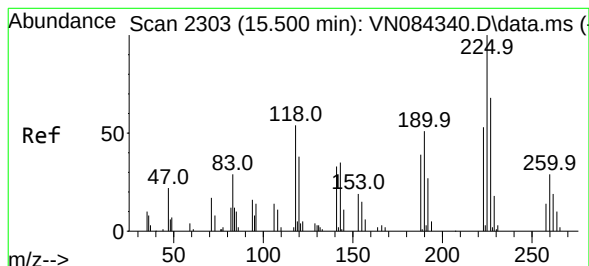
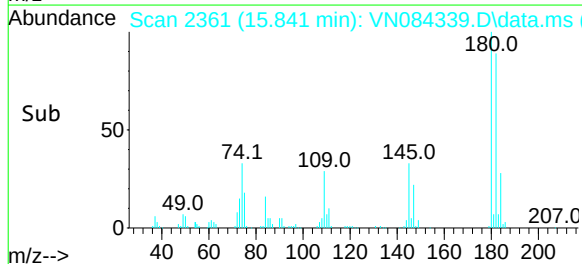
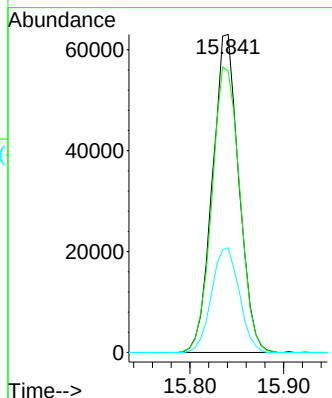
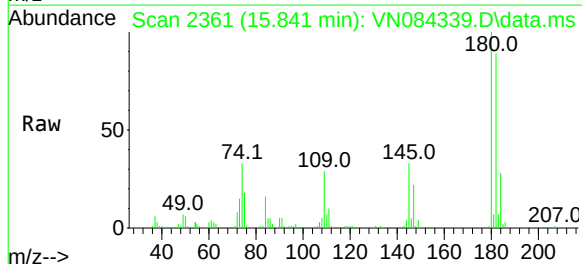
ClientSampleId :

VSTDIC050

Tgt Ion:	180	Resp:	123597
Ion Ratio	Lower	Upper	
180	100		
182	94.6	77.8	116.6
145	34.5	28.9	43.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#90

Hexachlorobutadiene

Concen: 47.905 ug/l

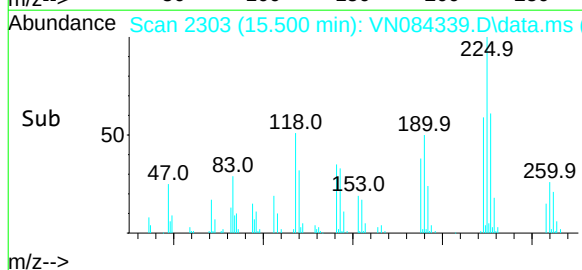
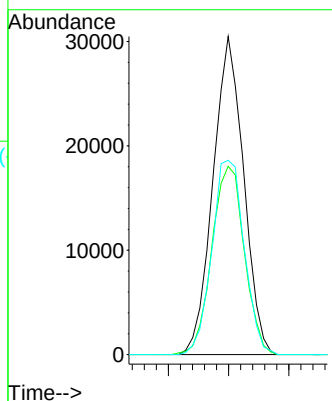
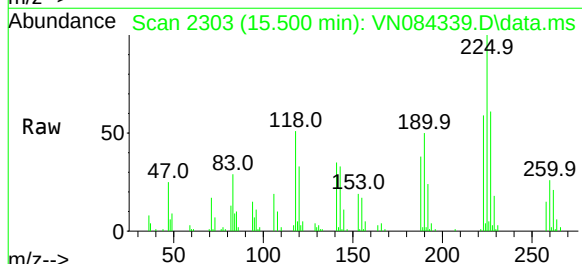
RT: 15.500 min Scan# 2303

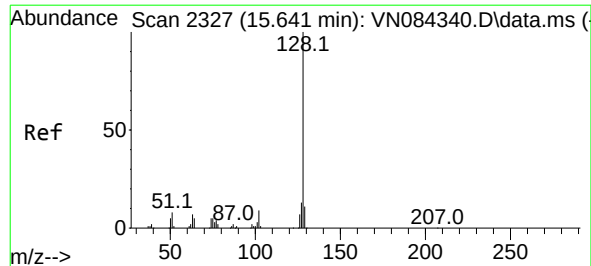
Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	225	Resp:	53904
Ion Ratio	Lower	Upper	
225	100		
223	62.8	0.0	124.0
227	64.4	0.0	130.8





#91

Naphthalene

Concen: 51.960 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Instrument :

MSVOA_N

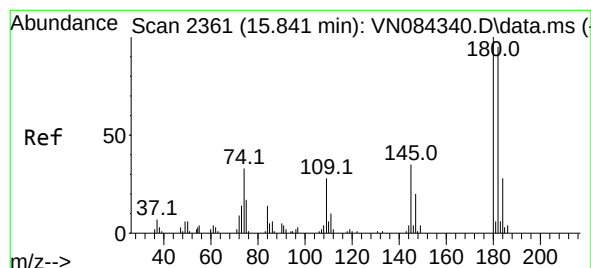
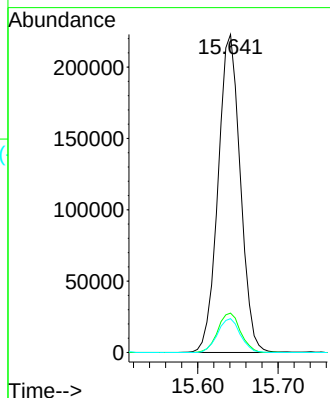
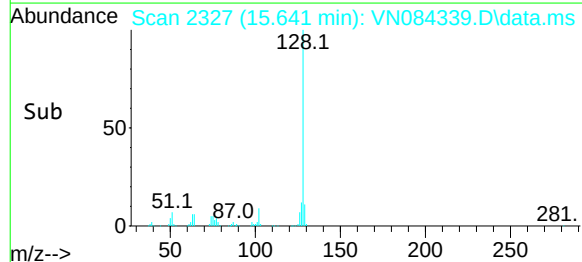
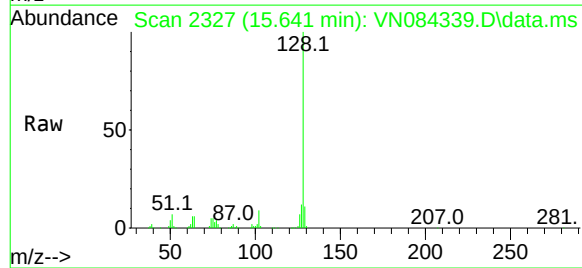
ClientSampleId :

VSTDIC050

Tgt Ion:	128	Resp:	428263
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.8	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 50.816 ug/l

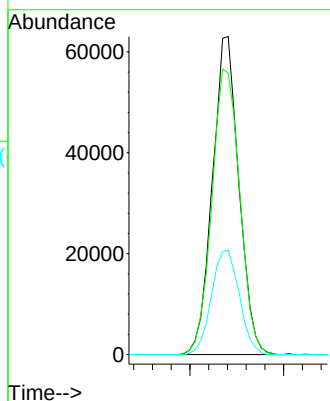
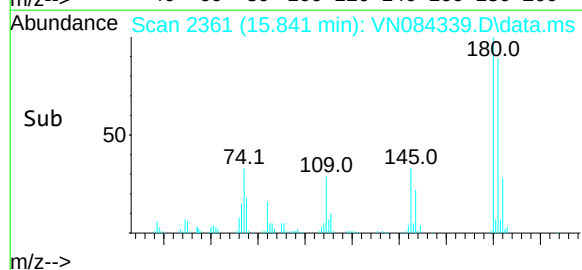
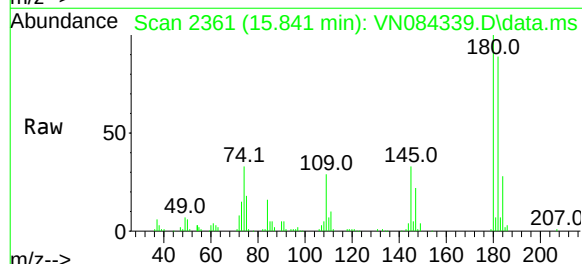
RT: 15.841 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VN084339.D

Acq: 08 Oct 2024 10:31

Tgt Ion:	180	Resp:	123597
Ion	Ratio	Lower	Upper
180	100		
182	94.6	0.0	194.4
145	34.5	0.0	72.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084340.D
 Acq On : 08 Oct 2024 10:55
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:08:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	34673	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	193364	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	180372	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	85525	30.638	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.133%			
60) 4-Bromofluorobenzene	12.847	95	88736	29.808	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.367%			
63) Toluene-d8	10.565	98	251690	30.121	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.400%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	44634	21.084	ug/l	100
3) Chloromethane	2.359	50	49609	20.593	ug/l	100
4) Vinyl Chloride	2.512	62	48486	20.524	ug/l	100
5) Bromomethane	2.959	94	32772	20.938	ug/l	100
6) Chloroethane	3.118	64	32274	20.839	ug/l	100
7) Trichlorofluoromethane	3.495	101	78670	20.444	ug/l	100
8) Diethyl Ether	3.965	74	28475	20.127	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	43710	20.202	ug/l	100
10) 1,1-Dichloroethene	4.342	96	42386	19.633	ug/l	100
11) Methyl Iodide	4.594	142	57080	20.119	ug/l	100
12) Methyl Acetate	5.030	43	52868	19.561	ug/l	100
13) Acrolein	4.183	56	46516	92.647	ug/l	100
14) Acrylonitrile	5.718	53	123604	101.793	ug/l	100
15) Acetone	4.424	58	33083	95.376	ug/l	100
16) Carbon Disulfide	4.706	76	131855	20.510	ug/l	100
17) Allyl chloride	5.024	41	71450	20.416	ug/l	100
18) Methylene Chloride	5.277	84	49627	20.406	ug/l	100
19) trans-1,2-Dichloroethene	5.789	96	46499	20.351	ug/l	100
20) Diisopropyl ether	6.671	45	153833	20.444	ug/l	100
21) 1,1-Dichloroethane	6.571	63	88689	20.541	ug/l	100
22) cis-1,2-Dichloroethene	7.488	96	54636	20.549	ug/l	100
23) tert-Butyl Alcohol	5.524	59	46138	99.059	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	145915	20.224	ug/l	100
25) Chloroform	7.965	83	90176	20.622	ug/l	100
26) Cyclohexane	8.253	56	76065	21.064	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	63494	20.003	ug/l	100
30) 2-Butanone	7.483	43	165771	98.088	ug/l	100
31) 2,2-Dichloropropane	7.488	77	74258	19.908	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	83522	20.585	ug/l	100
33) Carbon Tetrachloride	8.365	117	70174	19.964	ug/l	100
34) Benzene	8.606	78	200730	20.202	ug/l	100
35) Methacrylonitrile	7.783	41	35246	19.549	ug/l	100
36) 1,2-Dichloroethane	8.671	62	67270	20.311	ug/l	100
37) Trichloroethene	9.347	130	47143	20.604	ug/l	100
38) Methylcyclohexane	9.600	83	66905	19.189	ug/l	100
39) 1,2-Dichloropropane	9.624	63	49785	20.547	ug/l	100
40) Dibromomethane	9.706	93	33881	20.007	ug/l	100
41) Bromodichloromethane	9.888	83	72106	20.057	ug/l	100
42) Vinyl Acetate	6.600	43	572205	97.351	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084340.D
 Acq On : 08 Oct 2024 10:55
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:08:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	65636	19.692	ug/l	100
44) Isopropyl Acetate	8.688	43	108346	19.860	ug/l	100
45) 1,4-Dioxane	9.700	88	18510	376.387	ug/l	100
46) Methyl methacrylate	9.682	41	52087	19.761	ug/l	100
47) n-amyl Acetate	12.494	43	95368	19.654	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	72331	19.470	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	79003	20.292	ug/l	100
50) 1,1,2-Trichloroethane	11.018	97	45599	20.033	ug/l	100
51) Ethyl methacrylate	10.876	69	74070	19.701	ug/l	100
52) 1,3-Dichloropropane	11.165	76	80622	20.257	ug/l	100
53) Dibromochloromethane	11.359	129	53563	19.920	ug/l	100
54) 1,2-Dibromoethane	11.470	107	47708	20.362	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	161430	94.667	ug/l	100
56) Bromoform	12.576	173	34047	19.091	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	336052	100.014	ug/l	100
59) 2-Hexanone	11.194	43	245030	98.139	ug/l	100
61) Tetrachloroethene	11.100	164	41072	20.131	ug/l	100
62) Toluene	10.629	91	211795	20.058	ug/l	100
64) Chlorobenzene	11.888	112	130620	19.878	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	46005	20.153	ug/l	100
66) Ethyl Benzene	11.965	91	227198	19.804	ug/l	100
67) m/p-Xylenes	12.070	106	174434	40.081	ug/l	100
68) o-Xylene	12.400	106	83154	19.823	ug/l	100
69) Styrene	12.412	104	142239	19.752	ug/l	100
70) Isopropylbenzene	12.694	105	214822	20.060	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	66030	19.931	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	56046m	19.781	ug/l	
73) Bromobenzene	12.982	156	51441	19.834	ug/l	100
74) n-propylbenzene	13.035	91	253393	19.856	ug/l	100
75) 2-Chlorotoluene	13.123	91	158981	20.048	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	178878	19.838	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	22530	18.583	ug/l	100
78) 4-Chlorotoluene	13.217	91	159107	19.735	ug/l	100
79) tert-butylbenzene	13.435	119	151487	19.692	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	180628	19.743	ug/l	100
81) sec-Butylbenzene	13.617	105	210010	19.829	ug/l	100
82) p-Isopropyltoluene	13.729	119	173074	19.415	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	95054	19.711	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	91564	19.121	ug/l	100
85) n-Butylbenzene	14.053	91	144192	18.676	ug/l	100
86) Hexachloroethane	14.335	117	33531	19.524	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	90933	19.503	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13240	19.543	ug/l	100
89) 1,2,4-Trichlorobenzene	15.841	180	45853	18.915	ug/l	100
90) Hexachlorobutadiene	15.500	225	20860	18.600	ug/l	100
91) Naphthalene	15.641	128	154471	18.804	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	45853	18.915	ug/l	100

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

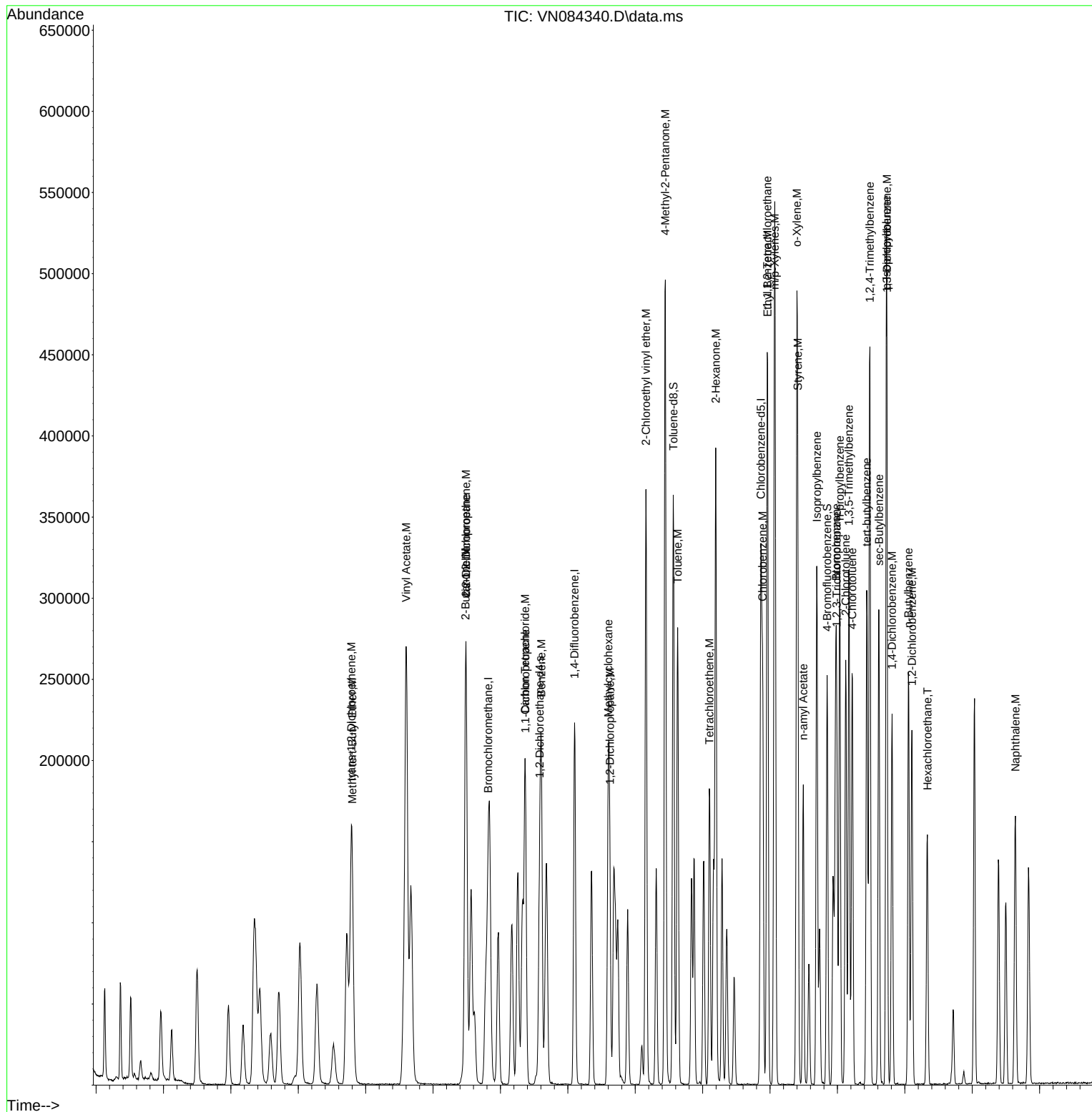

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\  
Data File : VN084340.D  
Acq On    : 08 Oct 2024 10:55  
Operator  : JC\MD  
Sample    : VSTDICCC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 5      Sample Multiplier: 1
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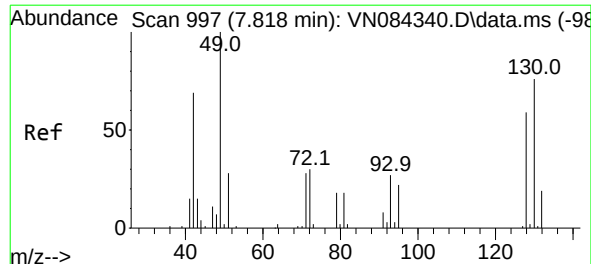
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

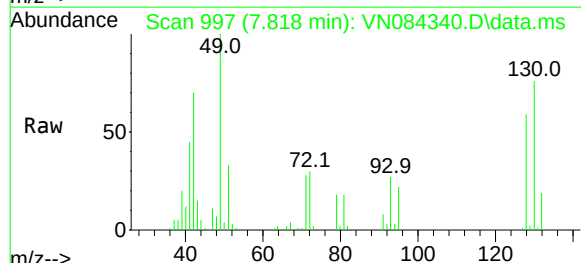
Quant Time: Oct 09 02:08:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:04:33 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

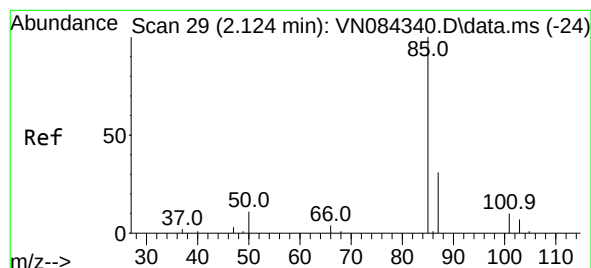
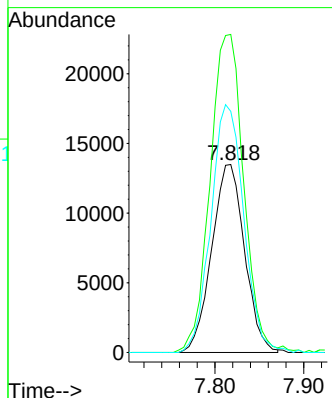
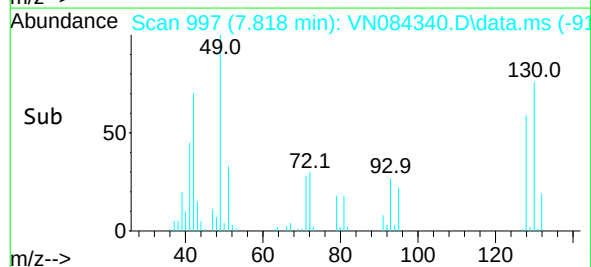
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:128 Resp: 34673
Ion Ratio Lower Upper
128 100
49 172.0 0.0 430.0
130 131.9 0.0 329.8

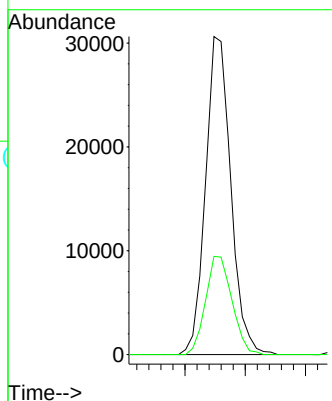
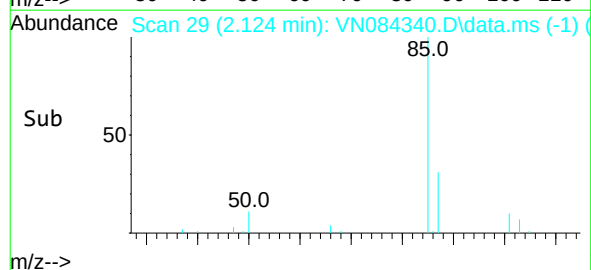
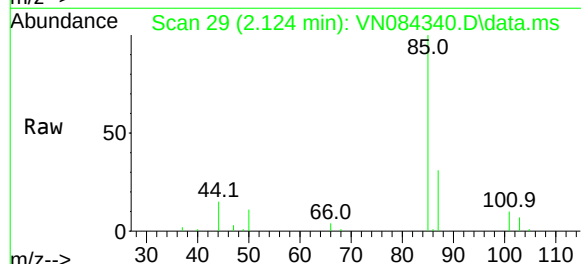
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

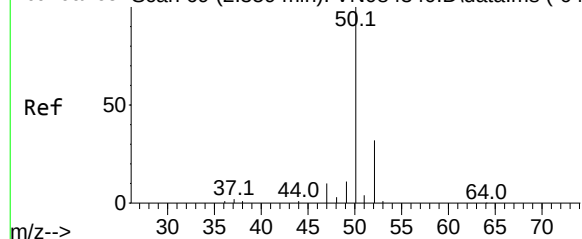


#2
Dichlorodifluoromethane
Concen: 21.084 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Tgt Ion: 85 Resp: 44634
Ion Ratio Lower Upper
85 100
87 30.9 15.4 46.4



Abundance Scan 69 (2.359 min): VN084340.D\data.ms (-64)



#3

Chloromethane

Concen: 20.593 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 50 Resp: 49609

Ion Ratio Lower Upper

50 100

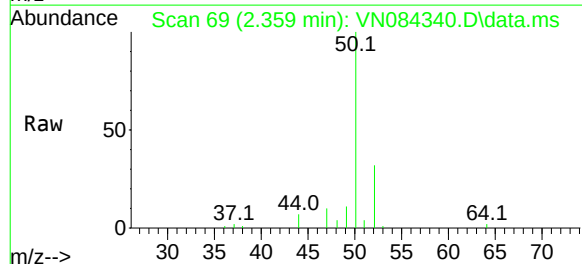
52 32.2 25.8 38.6

Manual Integrations

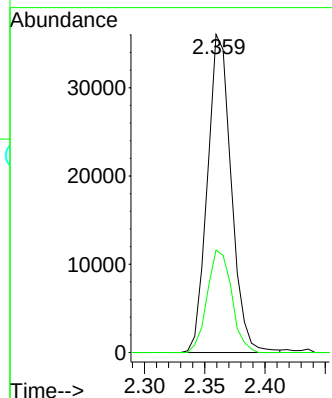
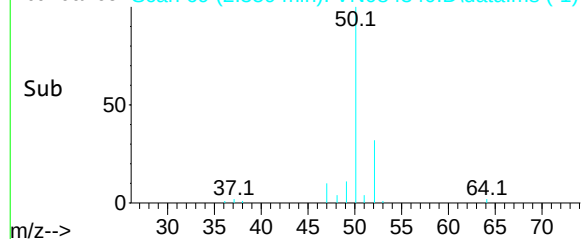
APPROVED

Reviewed By :John Carlone 10/09/2024

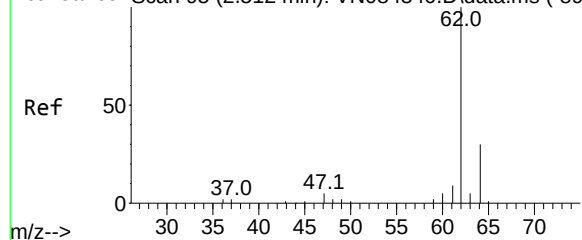
Supervised By :Mahesh Dadoda 10/09/2024



Abundance Scan 69 (2.359 min): VN084340.D\data.ms (-1)



Abundance Scan 95 (2.512 min): VN084340.D\data.ms (-89)



#4

Vinyl Chloride

Concen: 20.524 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN084340.D

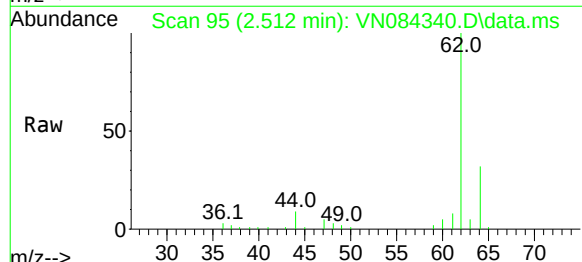
Acq: 08 Oct 2024 10:55

Tgt Ion: 62 Resp: 48486

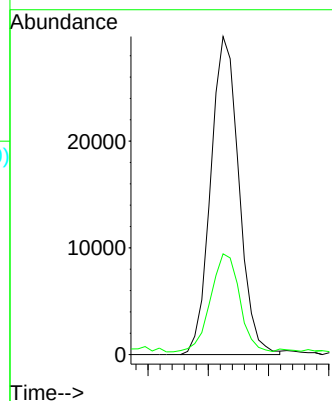
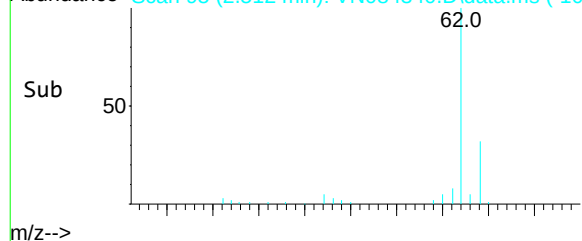
Ion Ratio Lower Upper

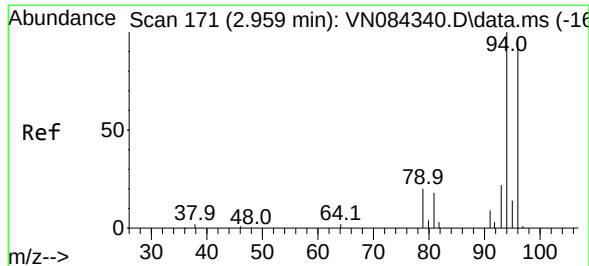
62 100

64 30.4 24.3 36.5



Abundance Scan 95 (2.512 min): VN084340.D\data.ms (-10)





#5

Bromomethane

Concen: 20.938 ug/l

RT: 2.959 min Scan# 171

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 94 Resp: 32772

Ion Ratio Lower Upper

94 100

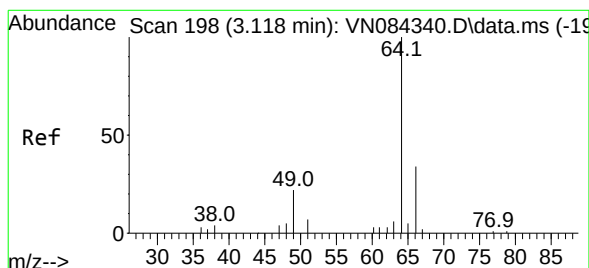
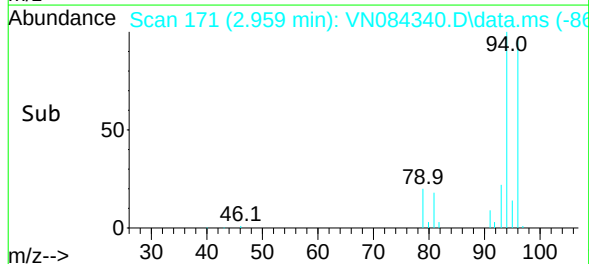
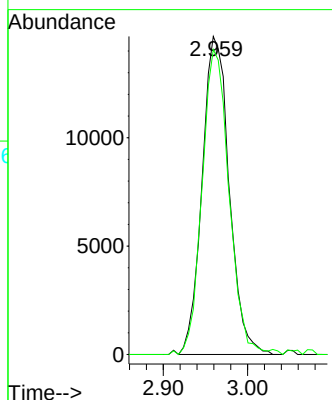
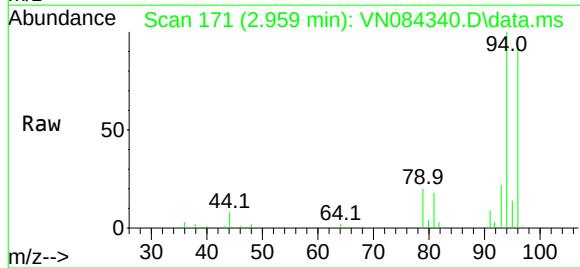
96 95.9 76.7 115.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#6

Chloroethane

Concen: 20.839 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN084340.D

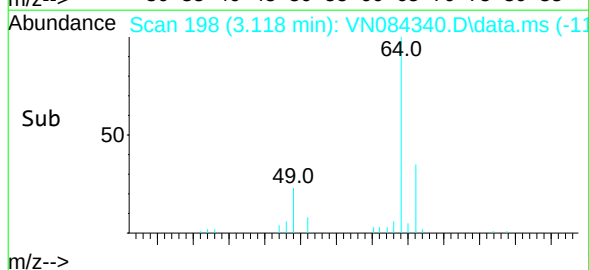
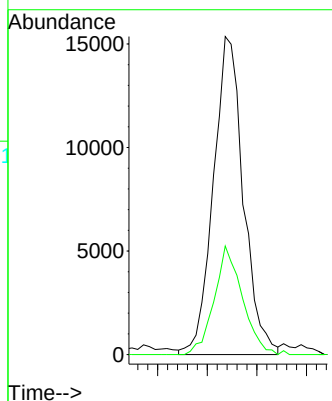
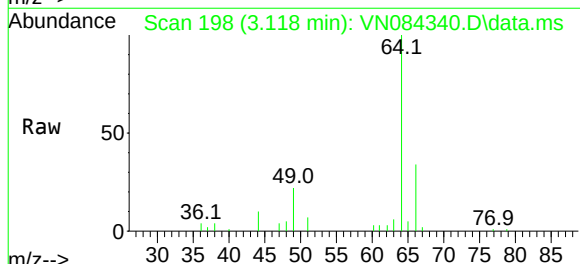
Acq: 08 Oct 2024 10:55

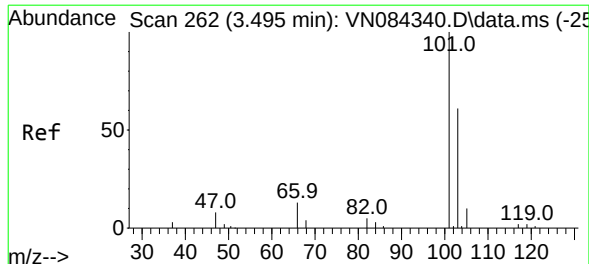
Tgt Ion: 64 Resp: 32274

Ion Ratio Lower Upper

64 100

66 34.6 27.7 41.5





#7

Trichlorofluoromethane

Concen: 20.444 ug/l

RT: 3.495 min Scan# 262

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:101 Resp: 78670

Ion Ratio Lower Upper

101 100

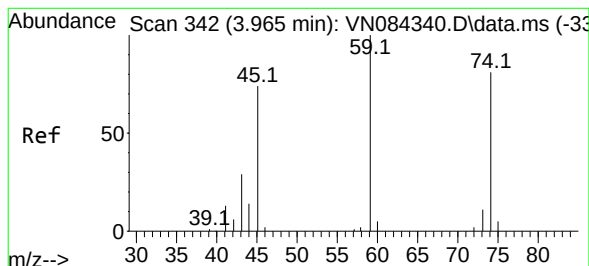
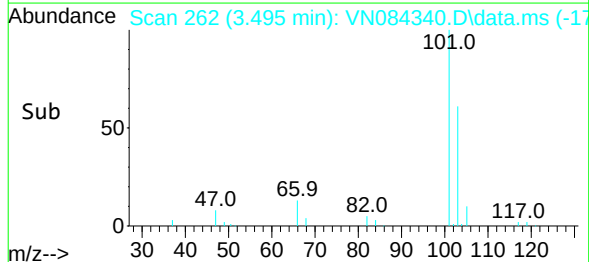
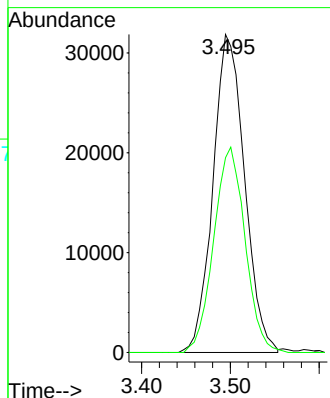
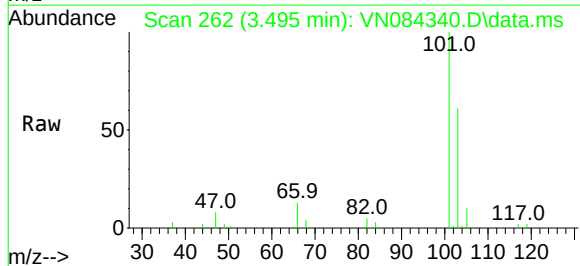
103 61.3 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#8

Diethyl Ether

Concen: 20.127 ug/l

RT: 3.965 min Scan# 342

Delta R.T. 0.000 min

Lab File: VN084340.D

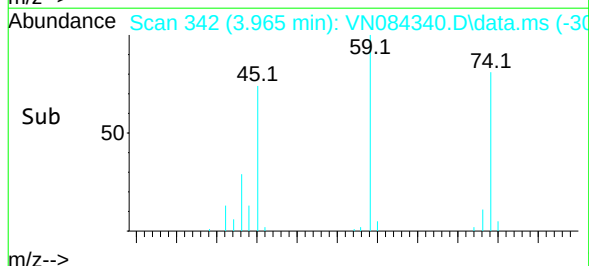
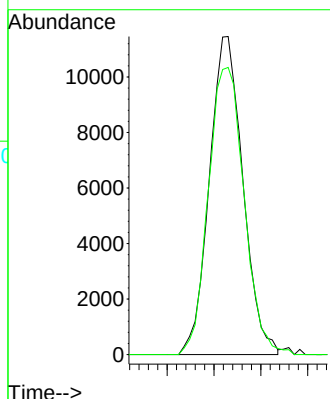
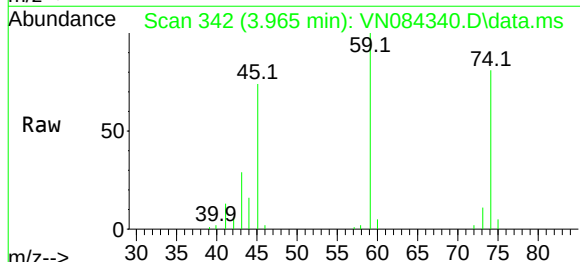
Acq: 08 Oct 2024 10:55

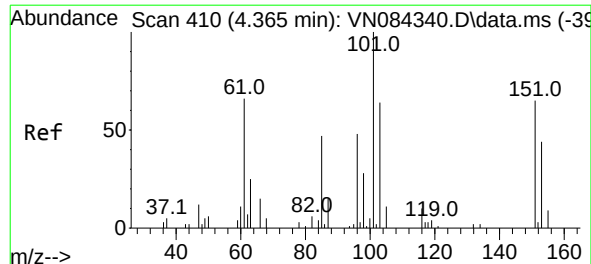
Tgt Ion: 74 Resp: 28475

Ion Ratio Lower Upper

74 100

45 96.2 19.2 173.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.202 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

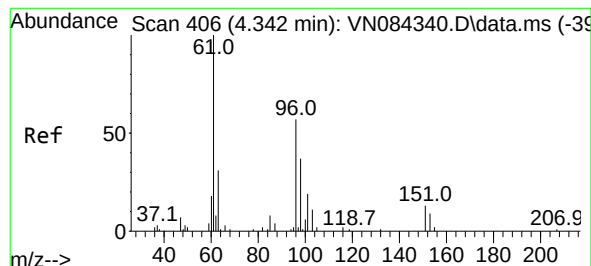
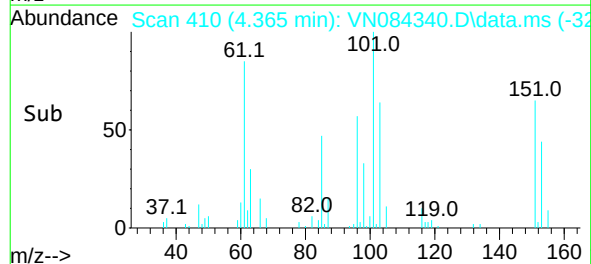
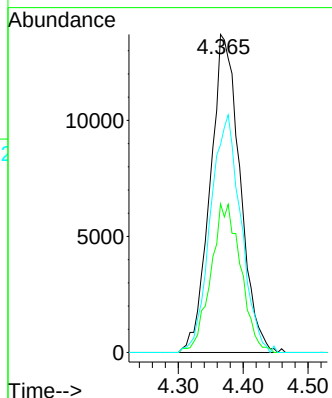
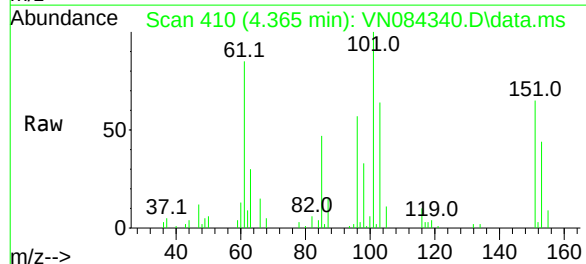
Tgt Ion:	101	Resp:	43710
Ion	Ratio	Lower	Upper
101	100		
85	46.8	0.0	93.6
151	75.9	0.0	151.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#10

1,1-Dichloroethene

Concen: 19.633 ug/l

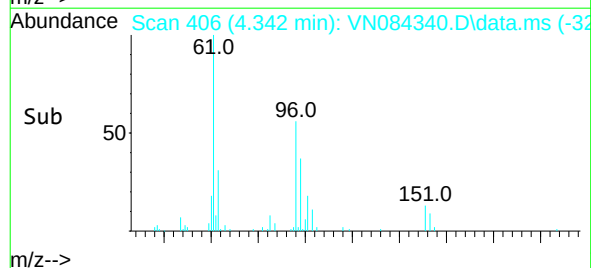
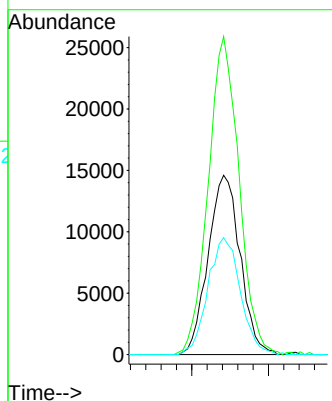
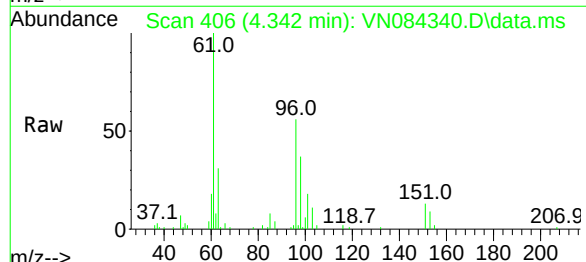
RT: 4.342 min Scan# 406

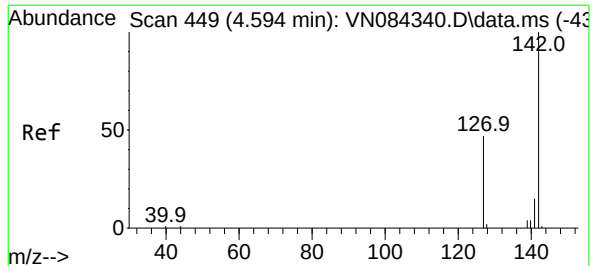
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

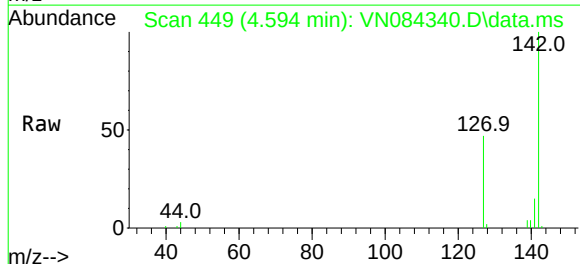
Tgt Ion:	96	Resp:	42386
Ion	Ratio	Lower	Upper
96	100		
61	176.0	140.8	211.2
98	65.2	52.2	78.2





#11
Methyl Iodide
Concen: 20.119 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

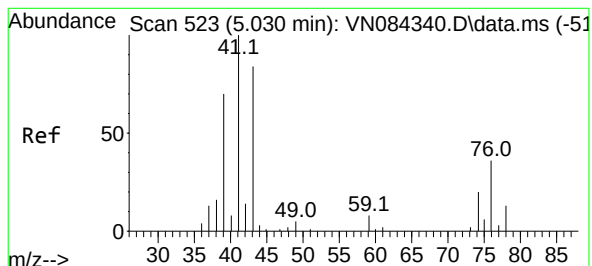
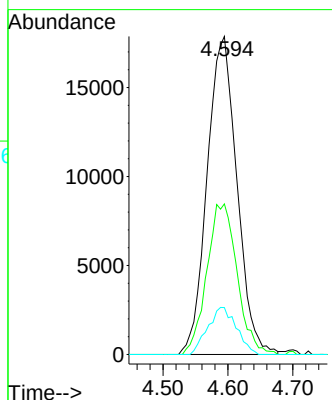
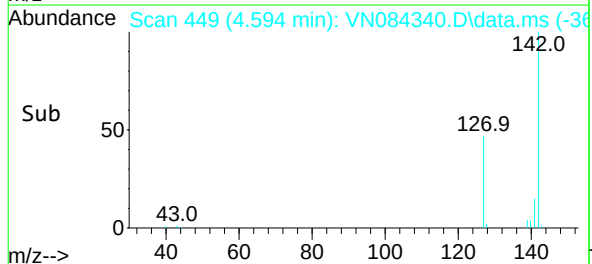
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 142 Resp: 57080
Ion Ratio Lower Upper
142 100
127 47.6 23.8 71.4
141 14.8 7.4 22.2

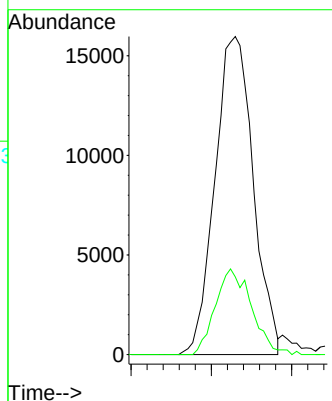
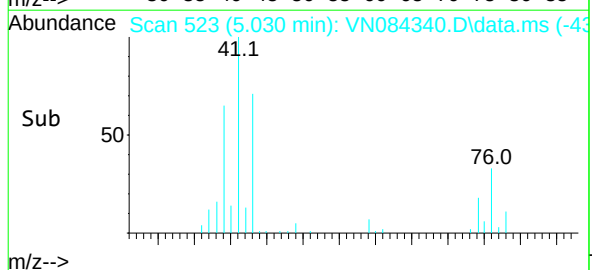
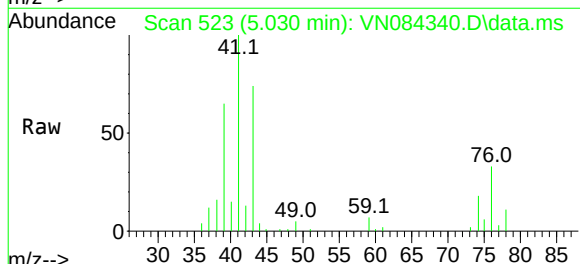
Manual Integrations
APPROVED

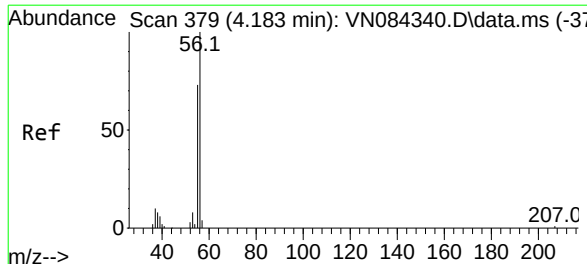
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#12
Methyl Acetate
Concen: 19.561 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Tgt Ion: 43 Resp: 52868
Ion Ratio Lower Upper
43 100
74 24.3 19.4 29.2





#13

Acrolein

Concen: 92.647 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 56 Resp: 46516

Ion Ratio Lower Upper

56 100

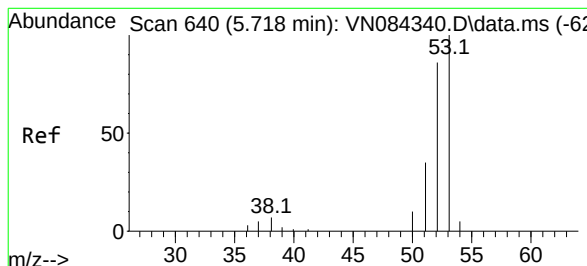
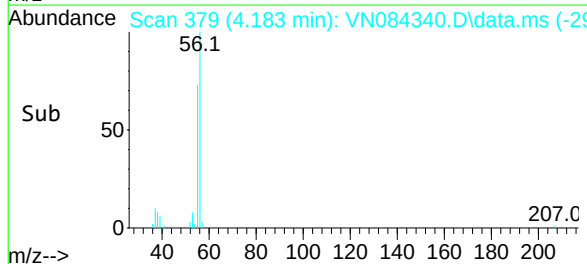
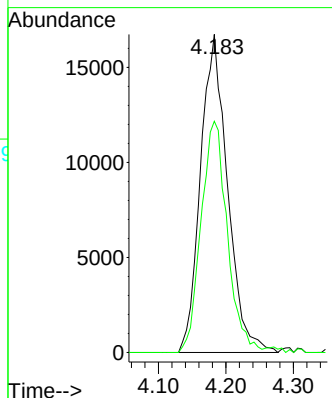
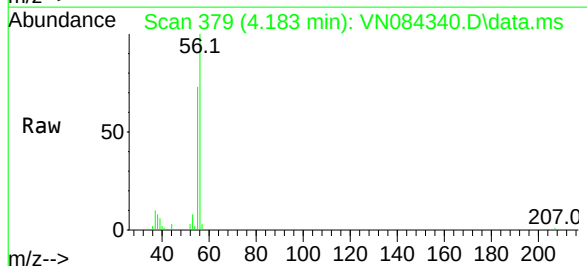
55 70.5 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#14

Acrylonitrile

Concen: 101.793 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

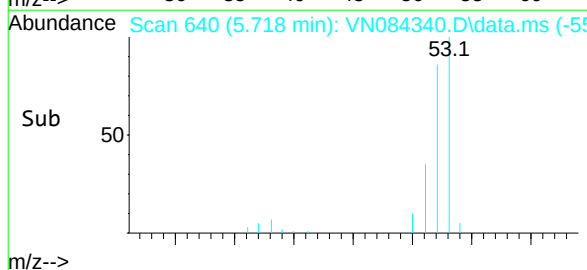
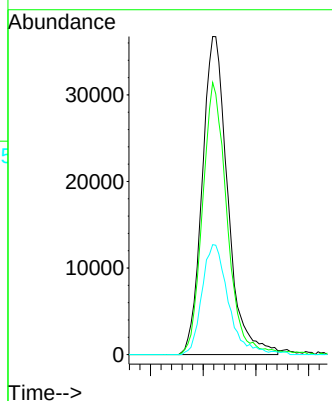
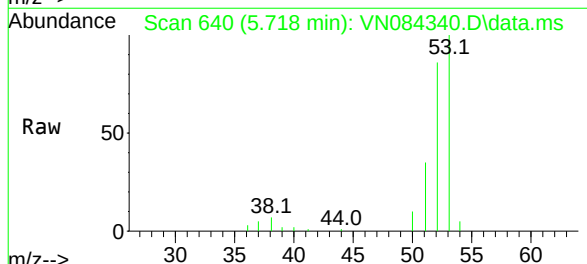
Tgt Ion: 53 Resp: 123604

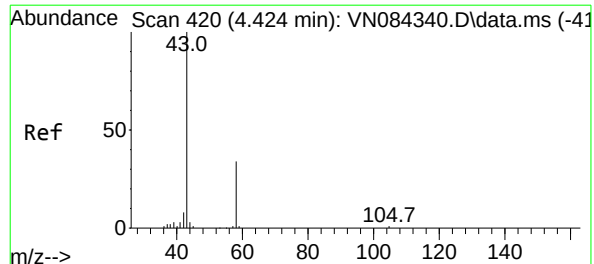
Ion Ratio Lower Upper

53 100

52 80.8 40.4 121.2

51 35.6 17.8 53.4





#15

Acetone

Concen: 95.376 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion: 58 Resp: 33083

Ion Ratio Lower Upper

58 100

43 296.9 237.5 356.3

Instrument :

MSVOA_N

ClientSampleId :

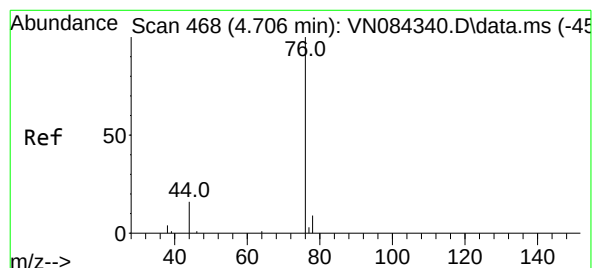
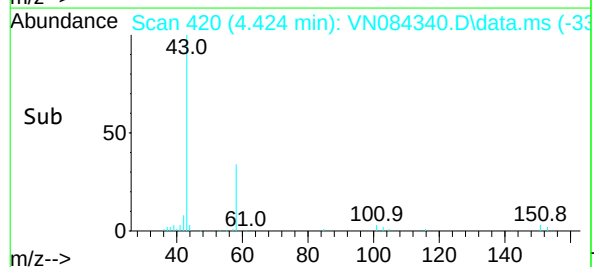
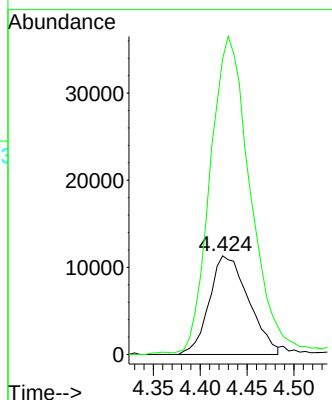
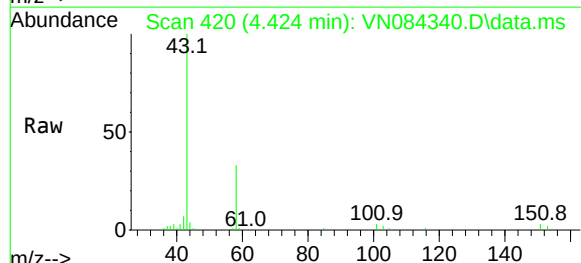
VSTDICCC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#16

Carbon Disulfide

Concen: 20.510 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN084340.D

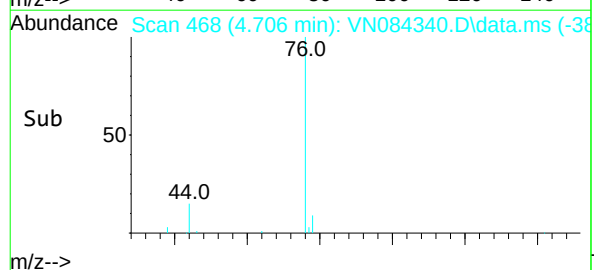
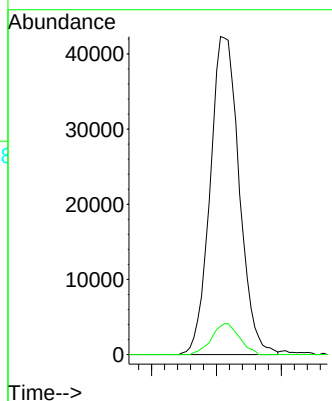
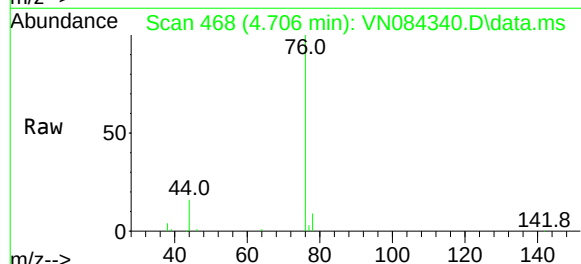
Acq: 08 Oct 2024 10:55

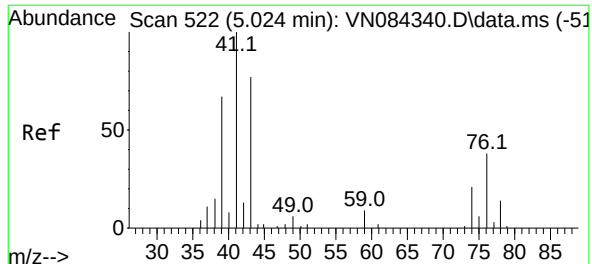
Tgt Ion: 76 Resp: 131855

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7





#17

Allyl chloride

Concen: 20.416 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

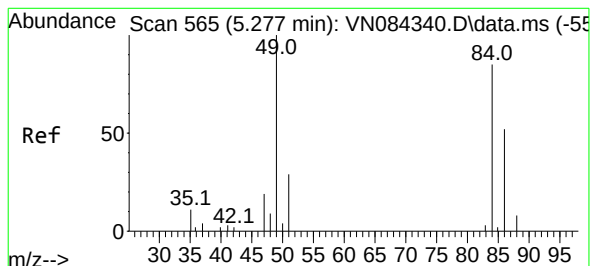
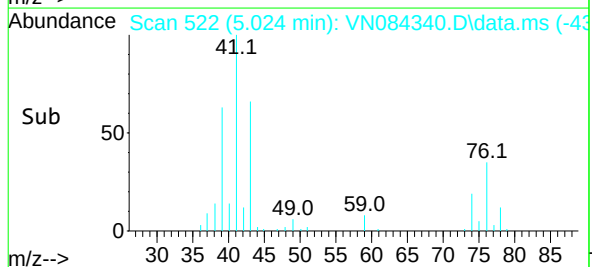
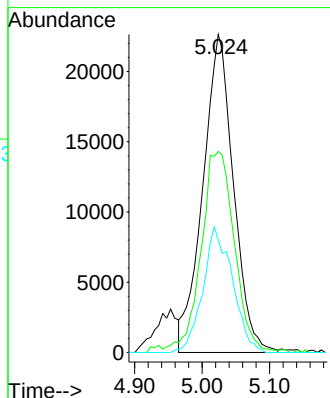
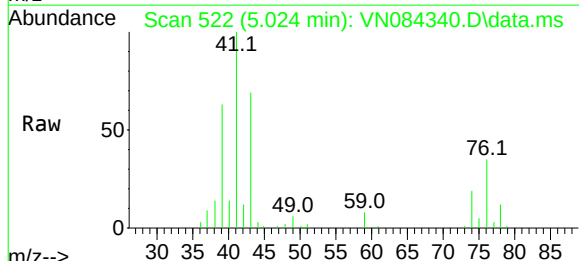
ClientSampleId :

VSTDICCC020

Tgt Ion:	41	Resp:	71450
Ion	Ratio	Lower	Upper
41	100		
39	62.9	31.4	94.3
76	35.7	17.8	53.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#18

Methylene Chloride

Concen: 20.406 ug/l

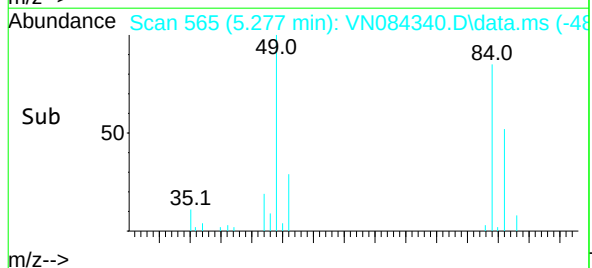
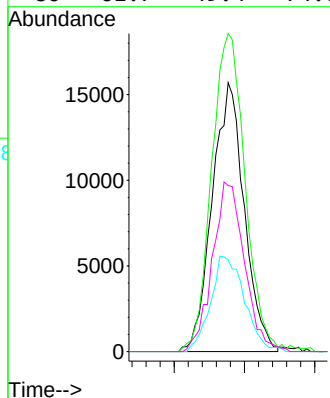
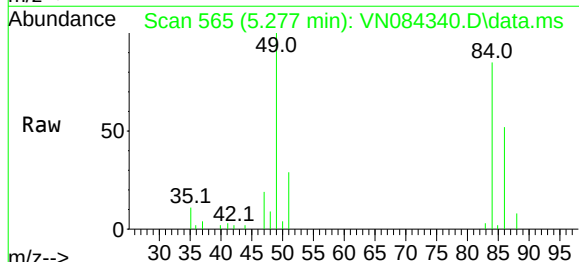
RT: 5.277 min Scan# 565

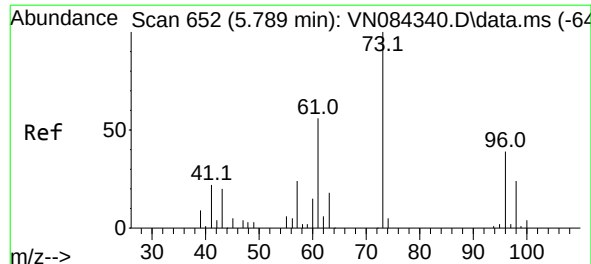
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	84	Resp:	49627
Ion	Ratio	Lower	Upper
84	100		
49	118.3	94.6	142.0
51	34.1	27.3	40.9
86	61.7	49.4	74.0





#19

trans-1,2-Dichloroethene

Concen: 20.351 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 96 Resp: 46499

Ion Ratio Lower Upper

96 100

61 144.7 115.8 173.6

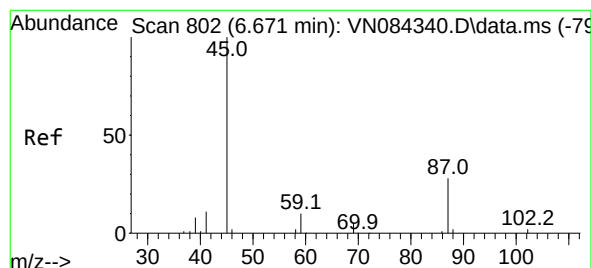
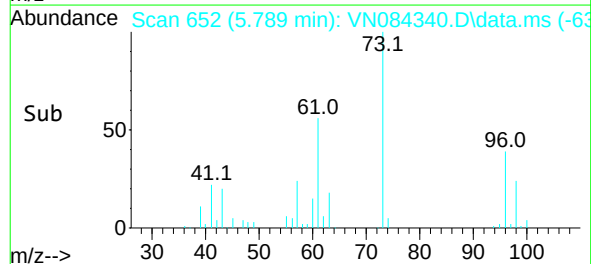
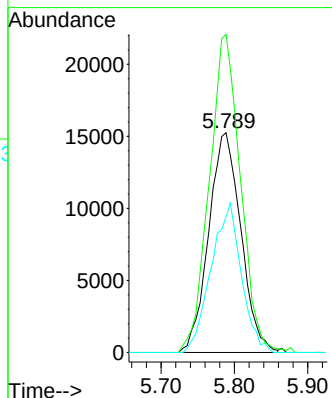
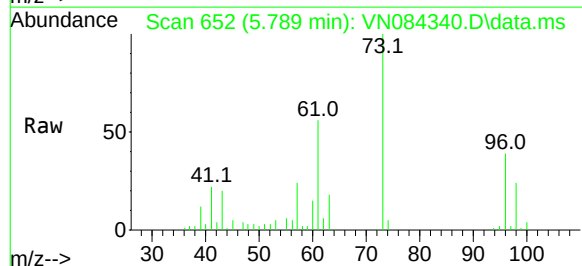
98 61.7 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#20

Diisopropyl ether

Concen: 20.444 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion: 45 Resp: 153833

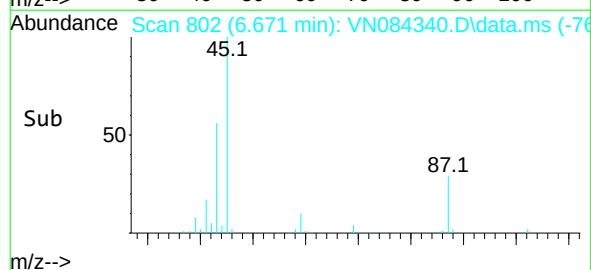
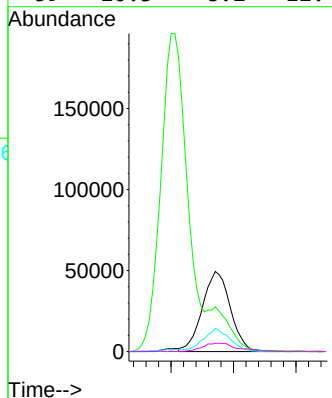
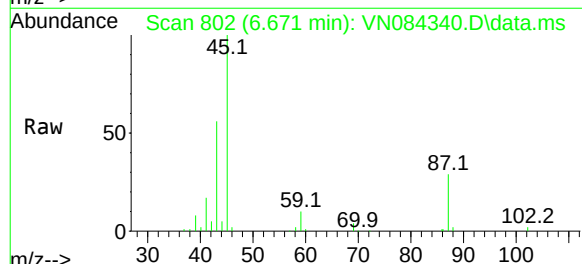
Ion Ratio Lower Upper

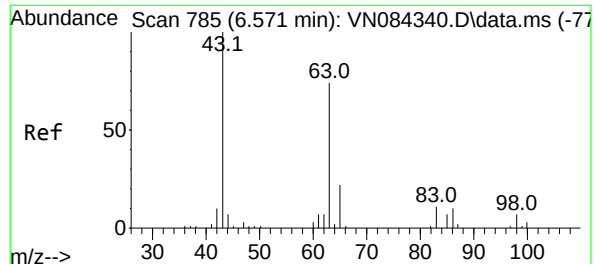
45 100

43 54.6 43.7 65.5

87 28.9 23.1 34.7

59 10.3 8.2 12.4





#21

1,1-Dichloroethane

Concen: 20.541 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

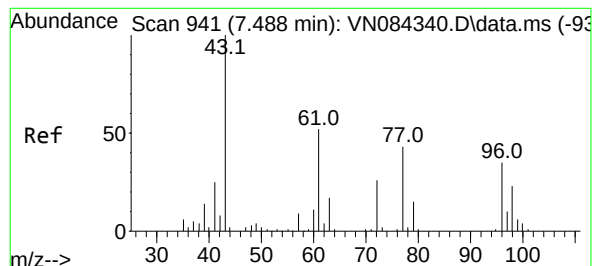
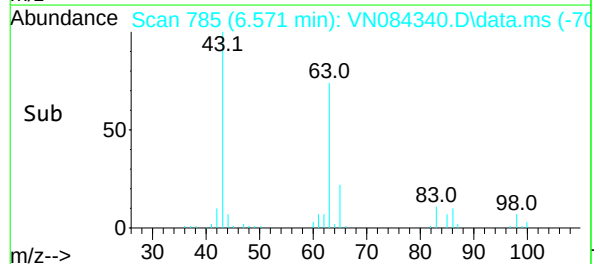
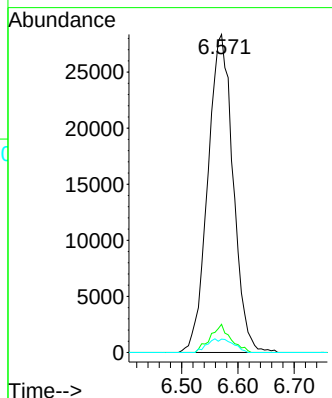
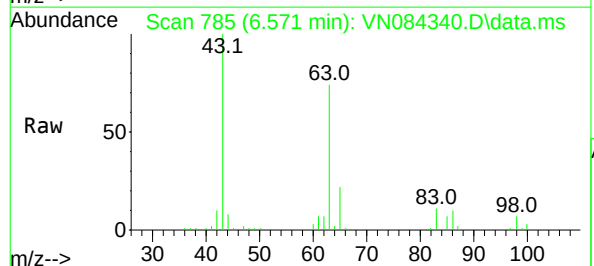
VSTDICCC020

Tgt Ion:	63	Resp:	88689
Ion	Ratio	Lower	Upper
63	100		
98	8.9	4.5	13.4
100	4.2	2.1	6.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#22

cis-1,2-Dichloroethene

Concen: 20.549 ug/l

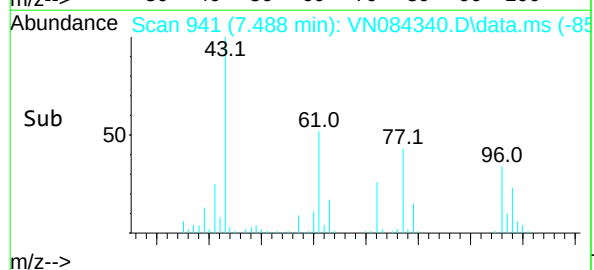
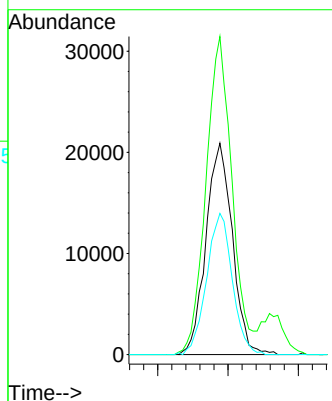
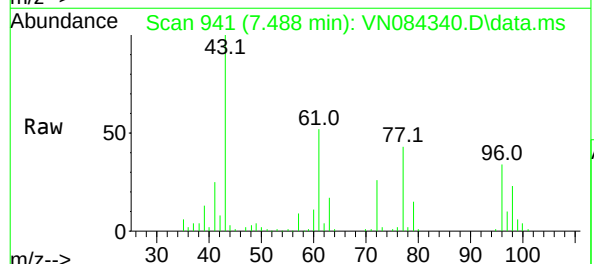
RT: 7.488 min Scan# 941

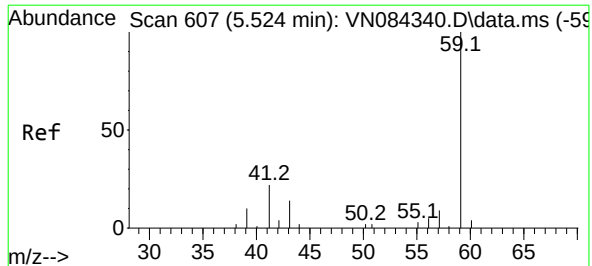
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	96	Resp:	54636
Ion	Ratio	Lower	Upper
96	100		
61	147.5	118.0	177.0
98	64.8	51.8	77.8





#23

tert-Butyl Alcohol

Concen: 99.059 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 59 Resp: 46138

Ion Ratio Lower Upper

59 100

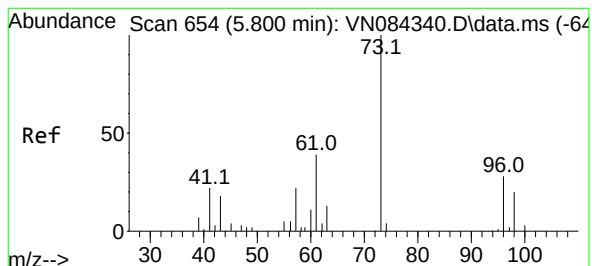
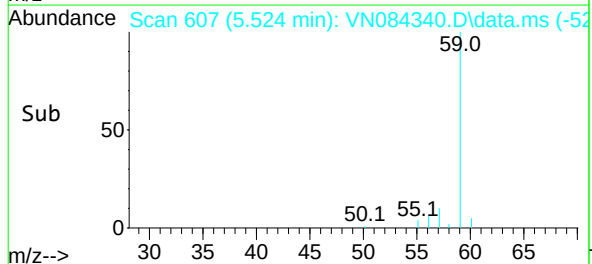
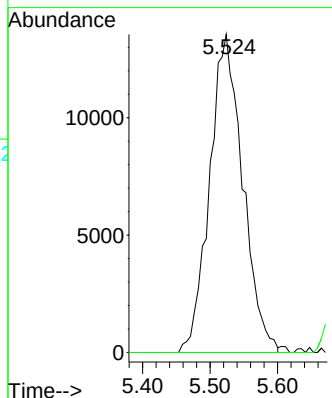
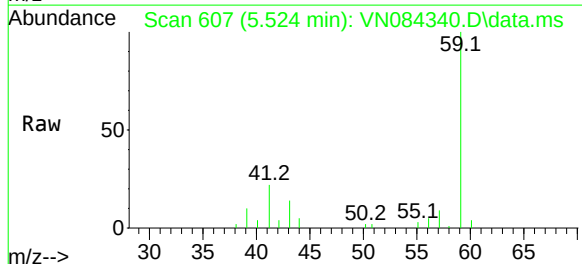
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#24

Methyl tert-Butyl Ether

Concen: 20.224 ug/l

RT: 5.800 min Scan# 654

Delta R.T. 0.000 min

Lab File: VN084340.D

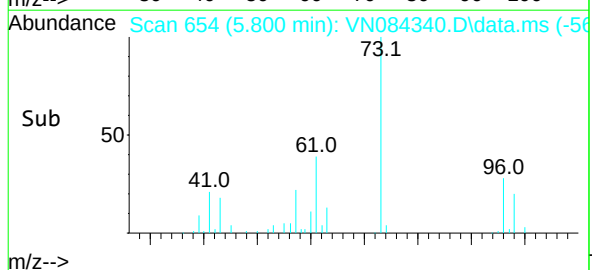
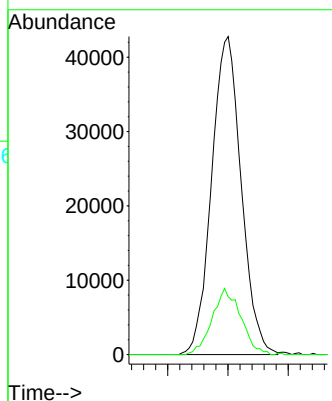
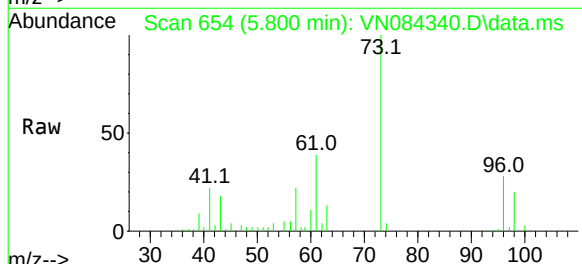
Acq: 08 Oct 2024 10:55

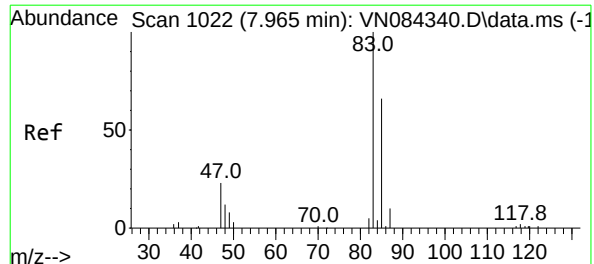
Tgt Ion: 73 Resp: 145915

Ion Ratio Lower Upper

73 100

43 13.6 10.9 16.3





#25

Chloroform

Concen: 20.622 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 90176

Ion Ratio Lower Upper

83 100

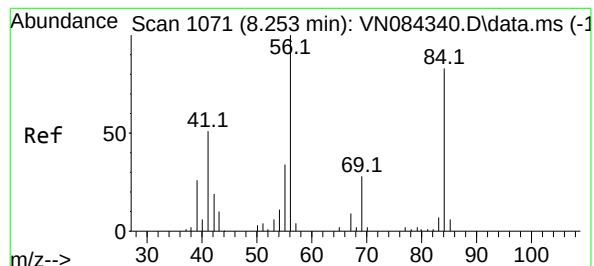
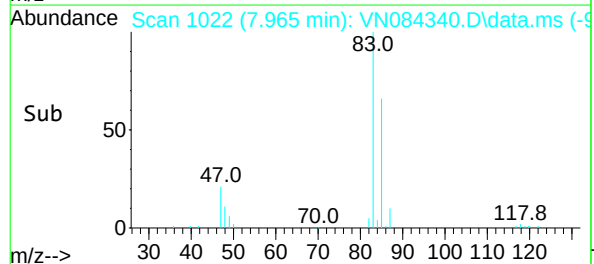
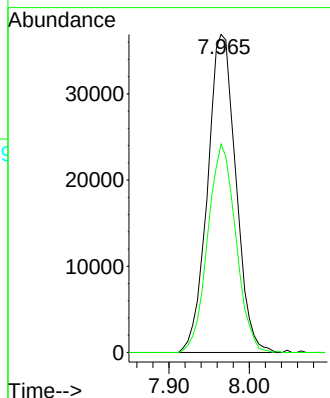
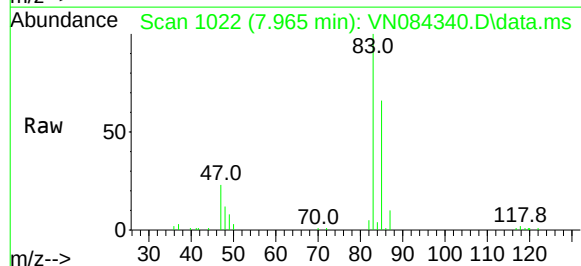
85 65.5 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#26

Cyclohexane

Concen: 21.064 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

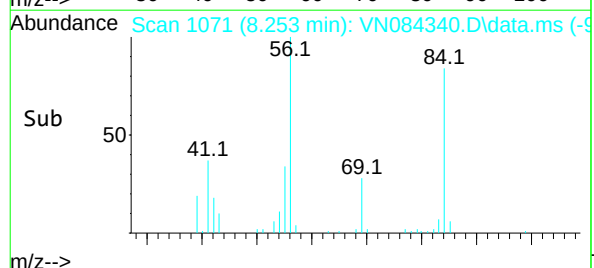
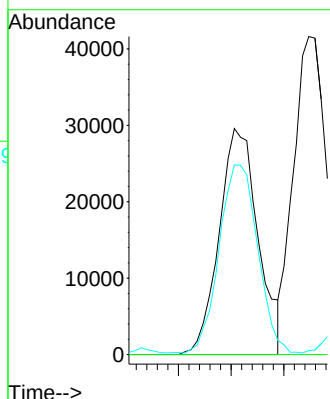
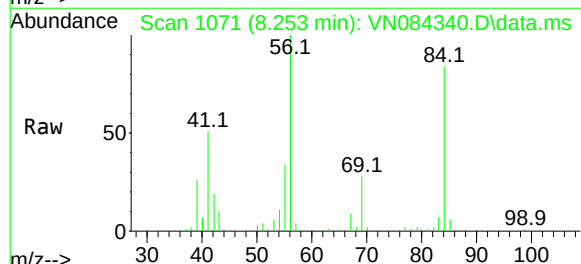
Tgt Ion: 56 Resp: 76065

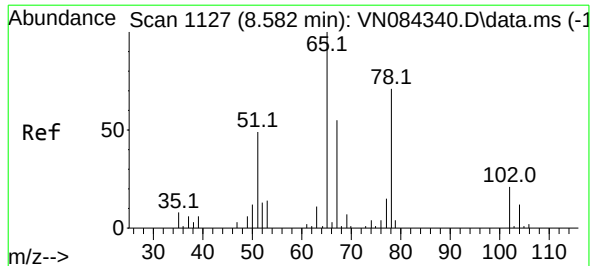
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 83.8 67.0 100.6





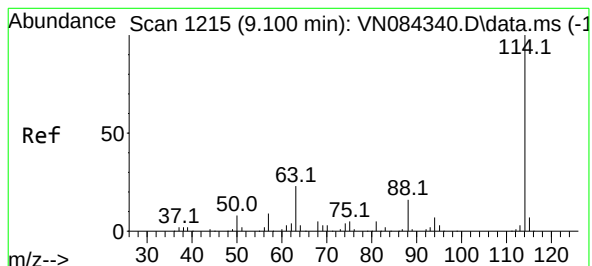
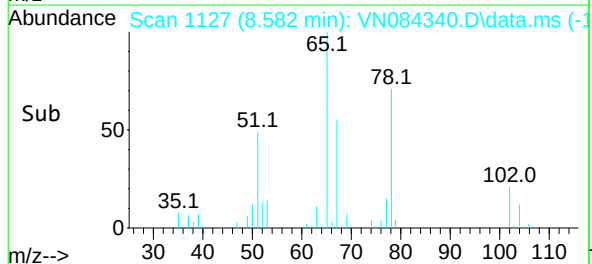
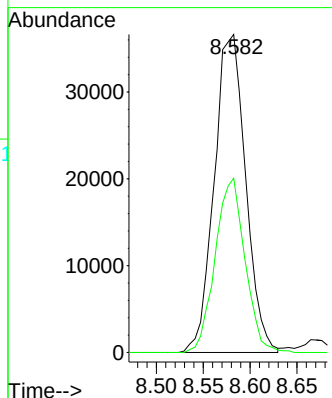
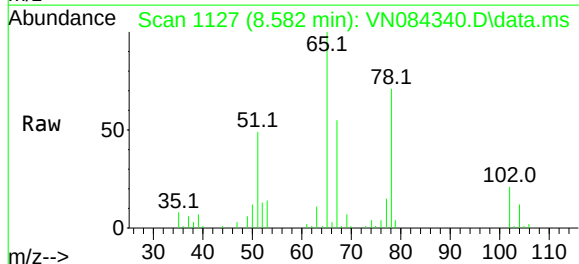
#27
1,2-Dichloroethane-d4
Concen: 30.638 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 65 Resp: 85525
Ion Ratio Lower Upper
65 100
67 51.9 41.5 62.3

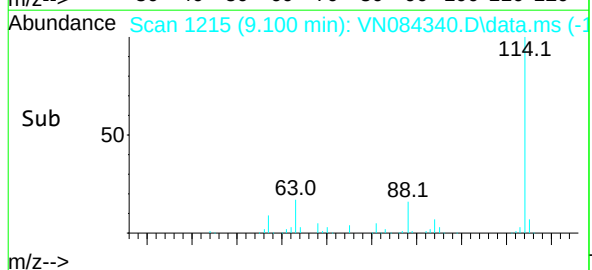
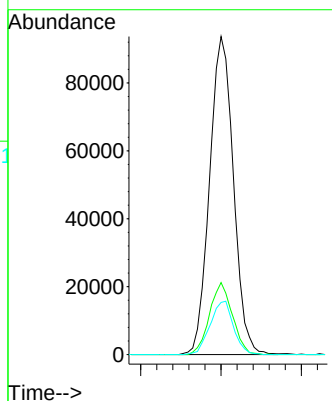
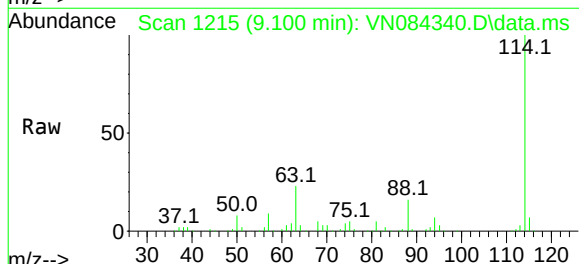
Manual Integrations
APPROVED

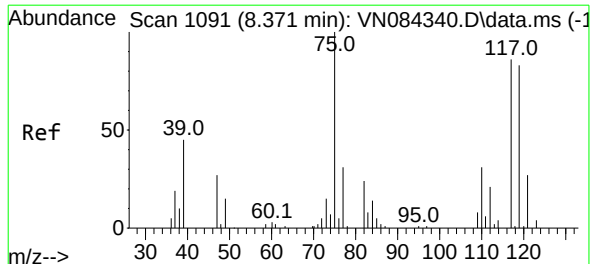
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

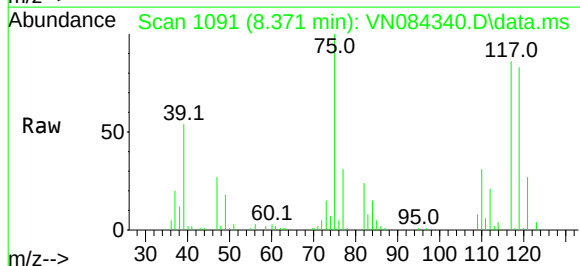
Tgt Ion:114 Resp: 193364
Ion Ratio Lower Upper
114 100
63 21.7 17.4 26.0
88 16.5 13.2 19.8





#29
1,1-Dichloropropene
Concen: 20.003 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

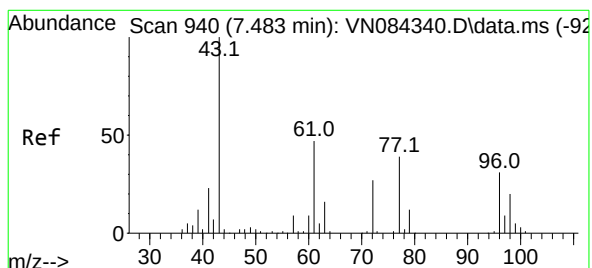
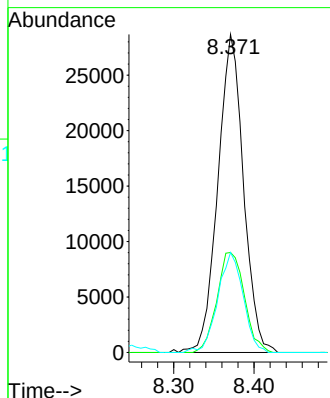
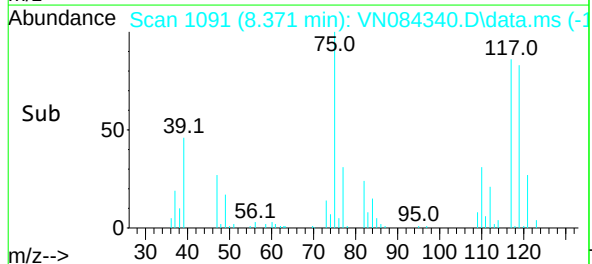
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 75 Resp: 63494
Ion Ratio Lower Upper
75 100
110 33.8 0.0 67.6
77 30.7 0.0 61.4

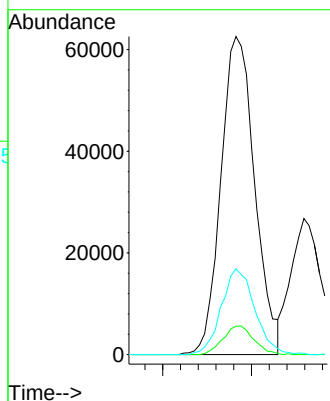
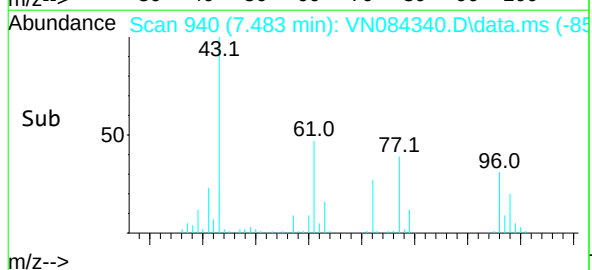
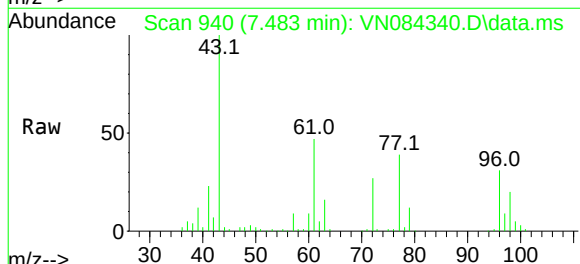
Manual Integrations
APPROVED

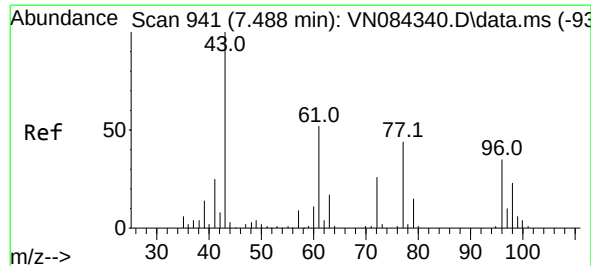
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#30
2-Butanone
Concen: 98.088 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Tgt Ion: 43 Resp: 165771
Ion Ratio Lower Upper
43 100
57 8.2 6.6 9.8
72 26.6 21.3 31.9





#31

2,2-Dichloropropane

Concen: 19.908 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 77 Resp: 74258

Ion Ratio Lower Upper

77 100

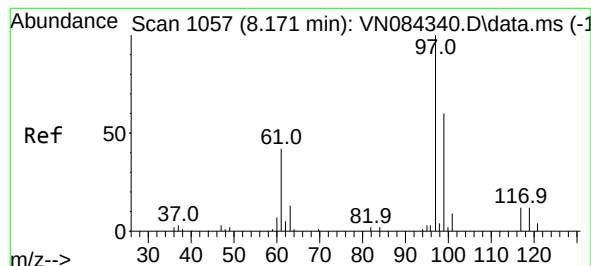
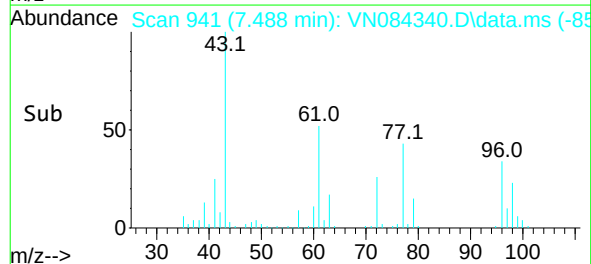
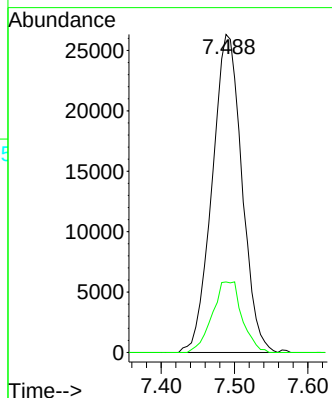
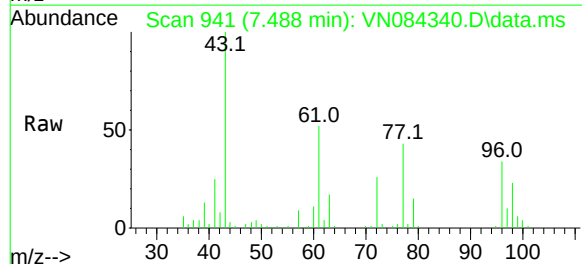
97 14.4 11.5 17.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#32

1,1,1-Trichloroethane

Concen: 20.585 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

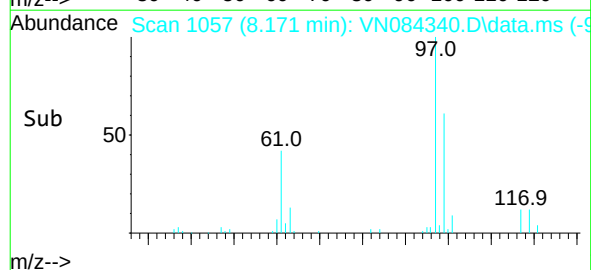
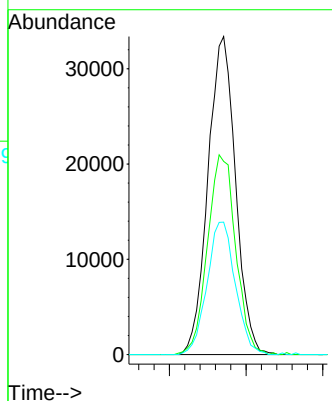
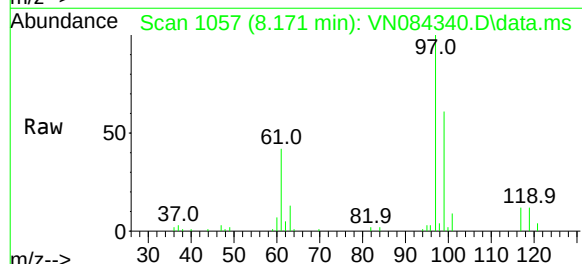
Tgt Ion: 97 Resp: 83522

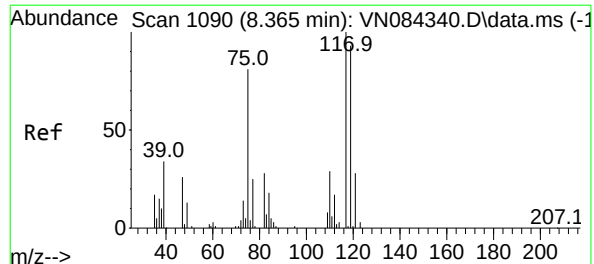
Ion Ratio Lower Upper

97 100

99 64.0 51.2 76.8

61 42.6 34.1 51.1





#33

Carbon Tetrachloride

Concen: 19.964 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

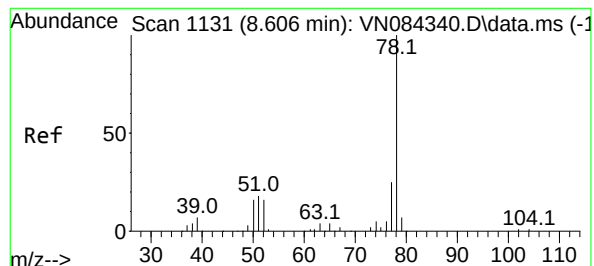
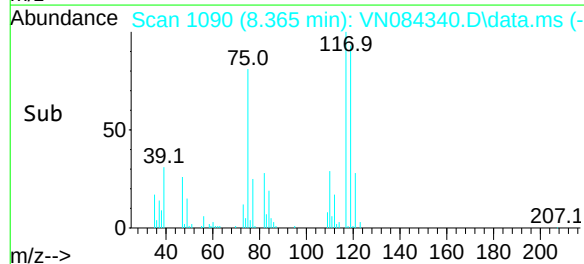
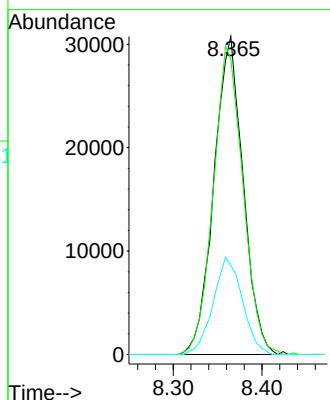
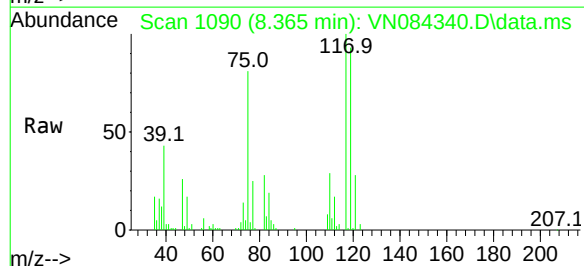
ClientSampleId :

VSTDICCC020

Tgt Ion:	117	Resp:	70174
Ion	Ratio	Lower	Upper
117	100		
119	92.9	74.3	111.5
121	28.0	22.4	33.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#34

Benzene

Concen: 20.202 ug/l

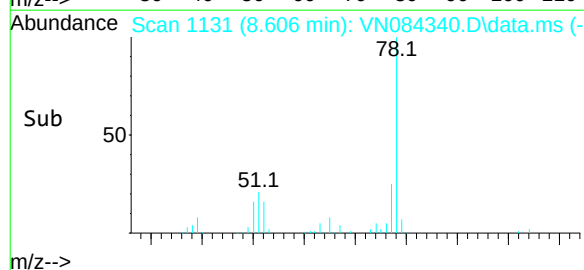
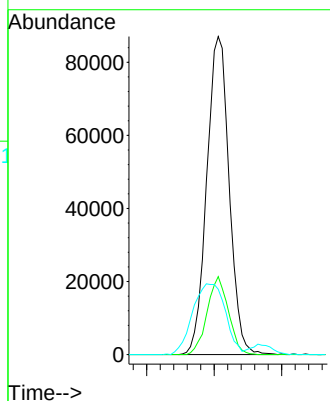
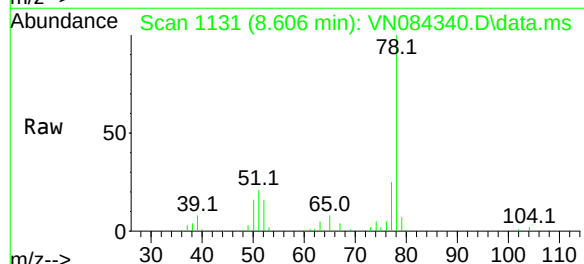
RT: 8.606 min Scan# 1131

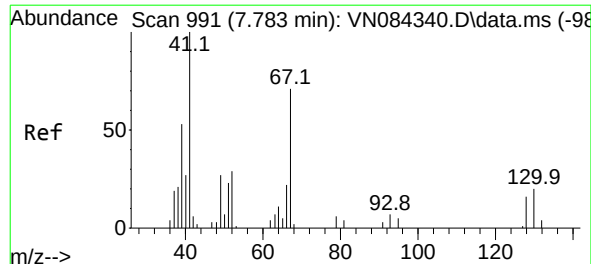
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	78	Resp:	200730
Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.6	29.4
51	19.7	15.8	23.6





#35

Methacrylonitrile

Concen: 19.549 ug/l

RT: 7.783 min Scan# 991

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 35246

Ion Ratio Lower Upper

41 100

39 52.7 26.4 79.0

67 71.4 35.7 107.1

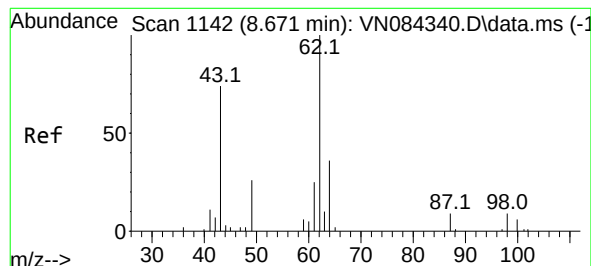
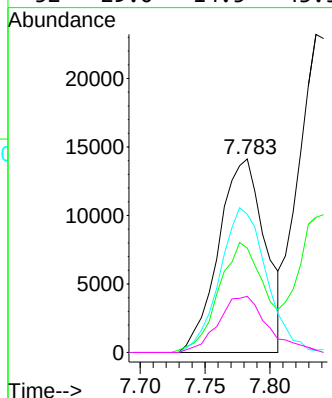
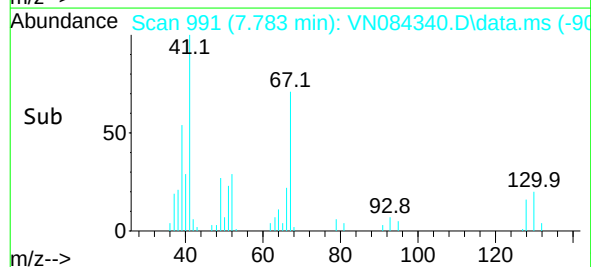
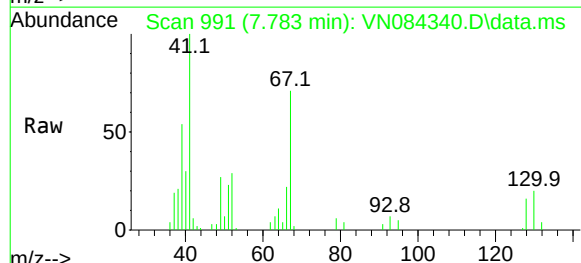
52 29.0 14.5 43.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#36

1,2-Dichloroethane

Concen: 20.311 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN084340.D

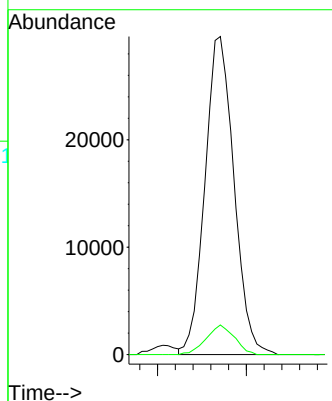
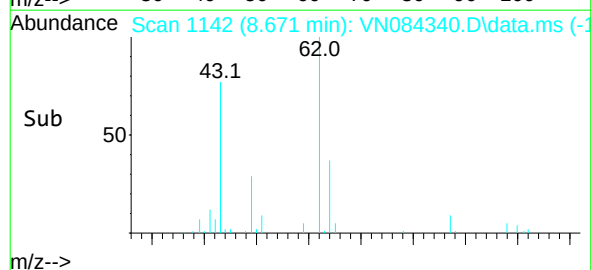
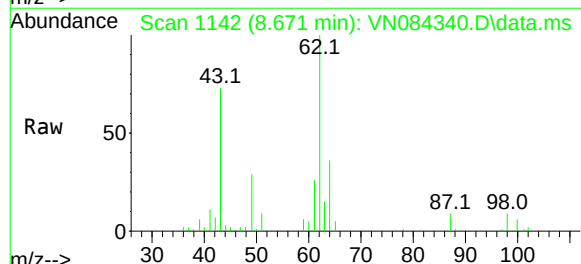
Acq: 08 Oct 2024 10:55

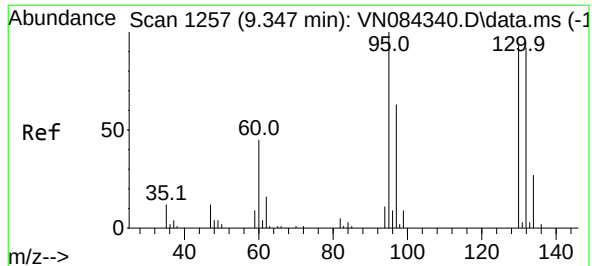
Tgt Ion: 62 Resp: 67270

Ion Ratio Lower Upper

62 100

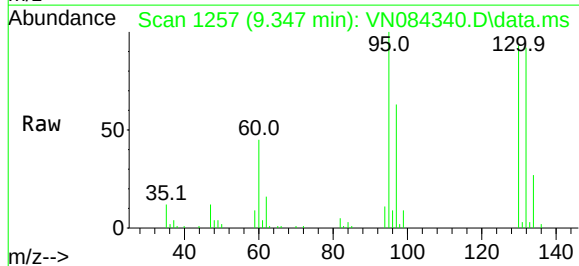
98 9.1 7.3 10.9





#37
Trichloroethene
Concen: 20.604 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

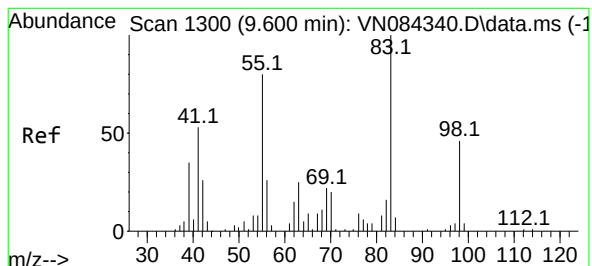
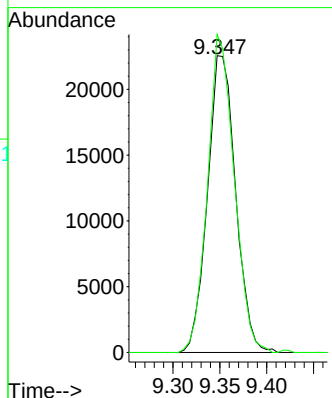
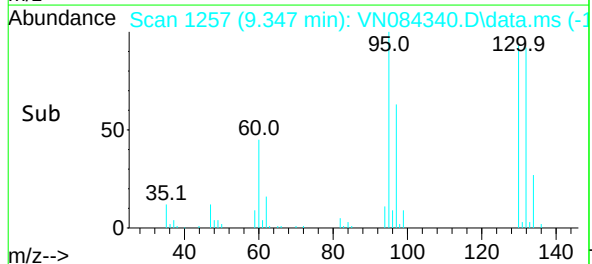
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:130 Resp: 47143
Ion Ratio Lower Upper
130 100
95 107.2 85.8 128.6

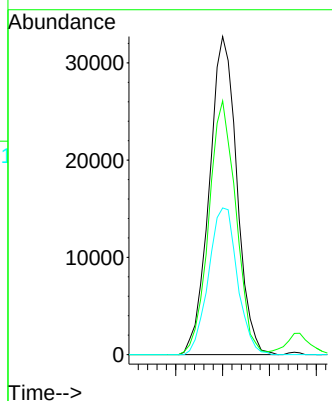
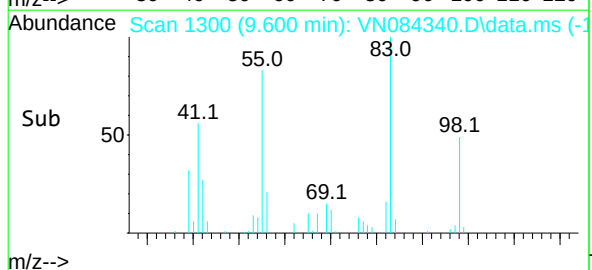
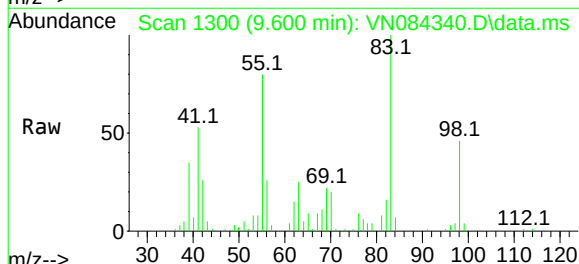
Manual Integrations
APPROVED

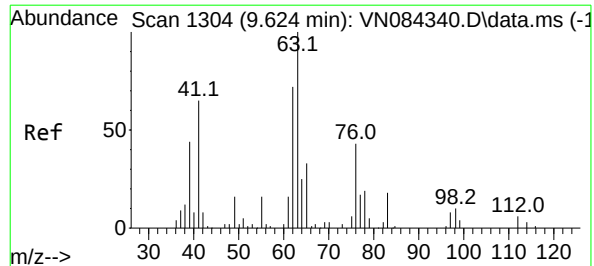
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#38
Methylcyclohexane
Concen: 19.189 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Tgt Ion: 83 Resp: 66905
Ion Ratio Lower Upper
83 100
55 78.5 39.3 117.8
98 48.0 24.0 72.0





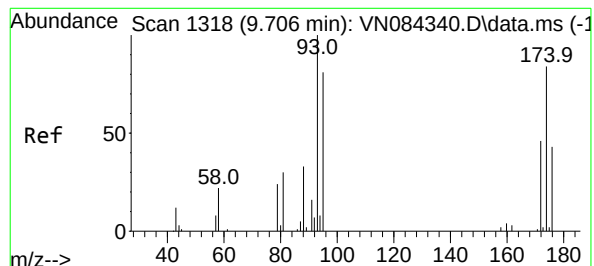
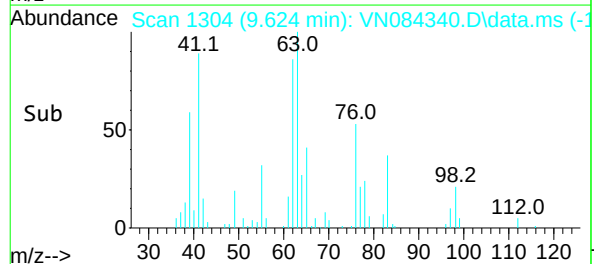
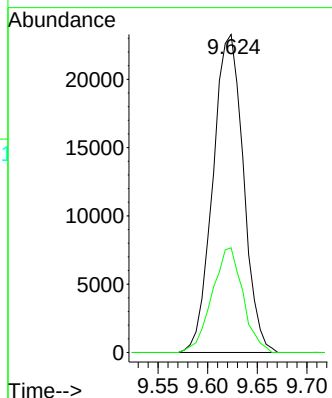
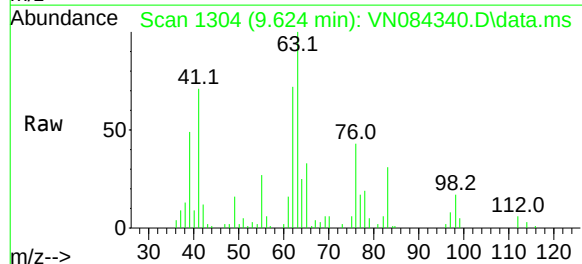
#39
1,2-Dichloropropane
Concen: 20.547 ug/l
RT: 9.624 min Scan# 1304
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 63 Resp: 49785
Ion Ratio Lower Upper
63 100
65 32.9 26.3 39.5

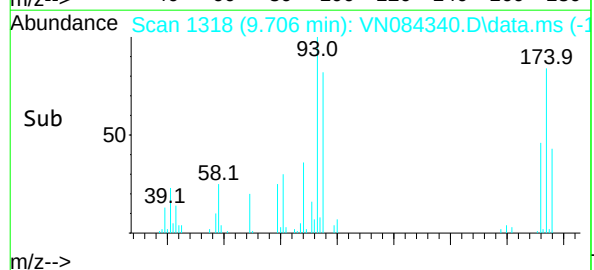
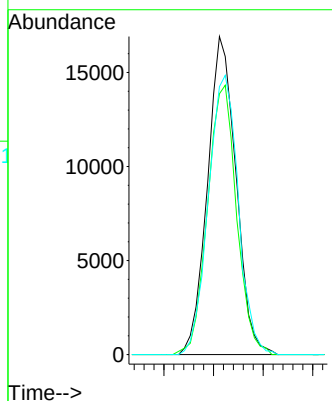
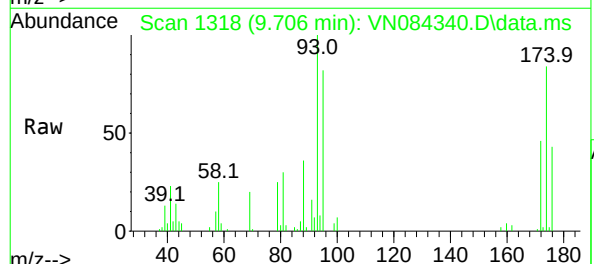
Manual Integrations
APPROVED

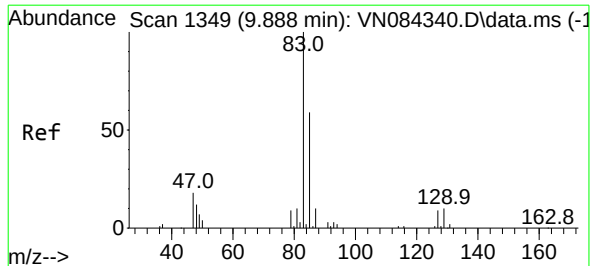
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#40
Dibromomethane
Concen: 20.007 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Tgt Ion: 93 Resp: 33881
Ion Ratio Lower Upper
93 100
95 85.7 0.0 171.4
174 91.5 0.0 183.0





#41

Bromodichloromethane

Concen: 20.057 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 72106

Ion Ratio Lower Upper

83 100

85 58.9 47.1 70.7

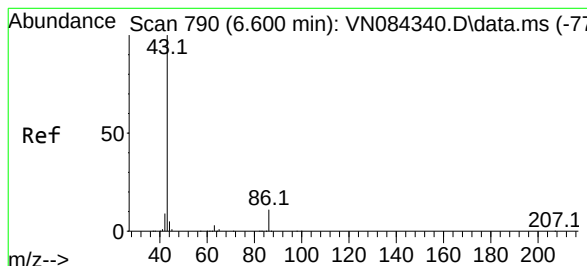
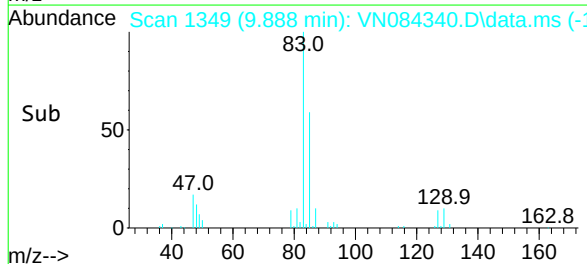
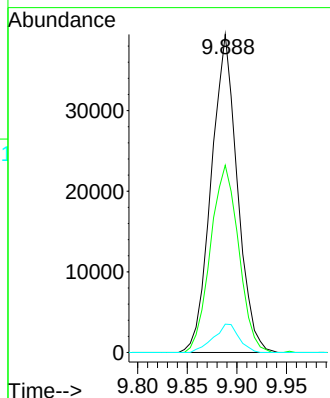
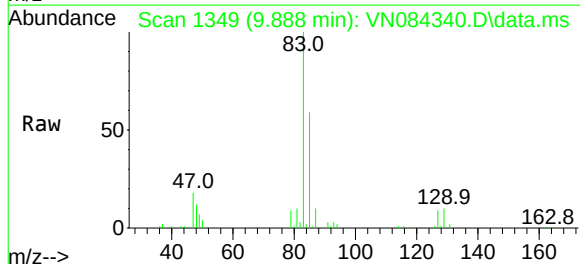
127 8.9 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#42

Vinyl Acetate

Concen: 97.351 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.000 min

Lab File: VN084340.D

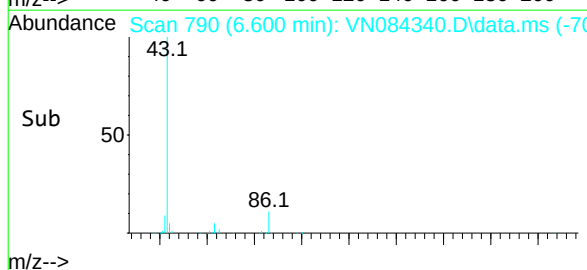
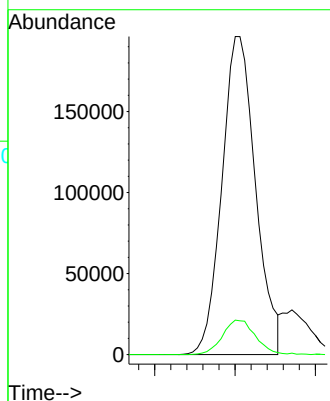
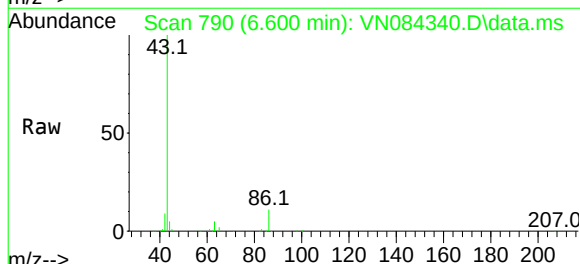
Acq: 08 Oct 2024 10:55

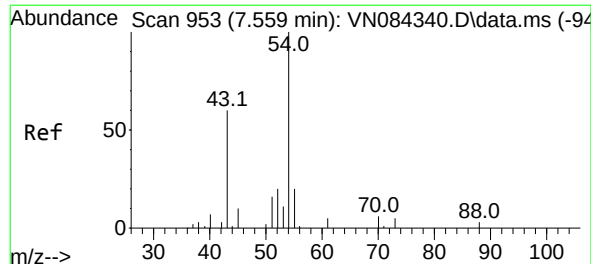
Tgt Ion: 43 Resp: 572205

Ion Ratio Lower Upper

43 100

86 10.6 8.5 12.7





#43

Ethyl Acetate

Concen: 19.692 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 65636

Ion Ratio Lower Upper

43 100

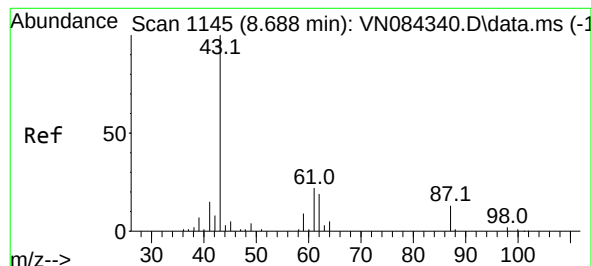
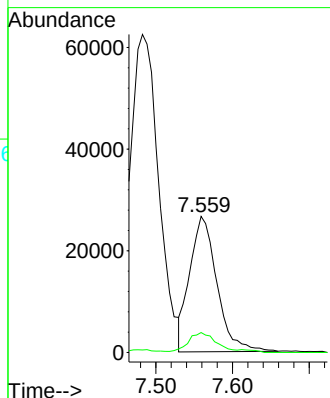
45 13.3 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#44

Isopropyl Acetate

Concen: 19.860 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084340.D

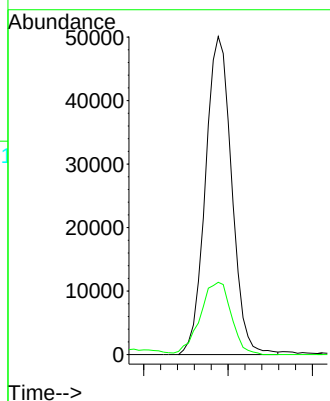
Acq: 08 Oct 2024 10:55

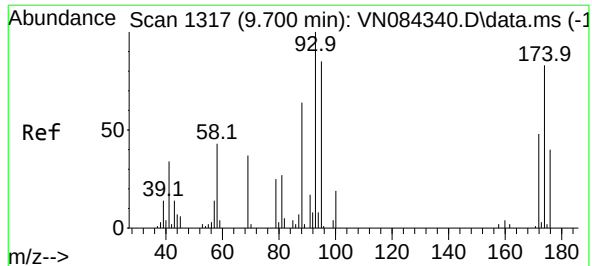
Tgt Ion: 43 Resp: 108346

Ion Ratio Lower Upper

43 100

61 26.8 21.4 32.2





#45

1,4-Dioxane

Concen: 376.387 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 88 Resp: 18510

Ion Ratio Lower Upper

88 100

43 28.0 22.4 33.6

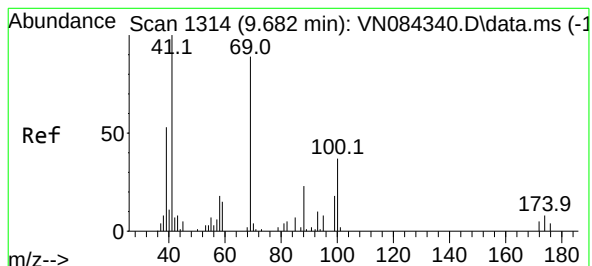
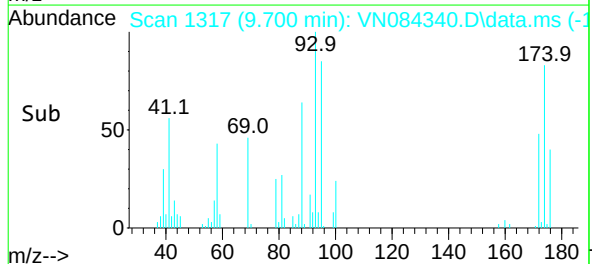
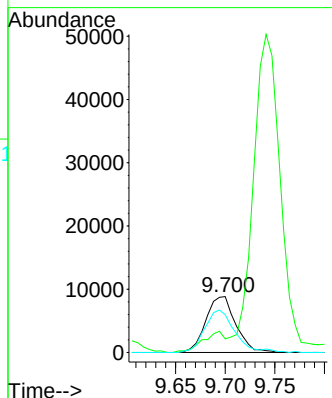
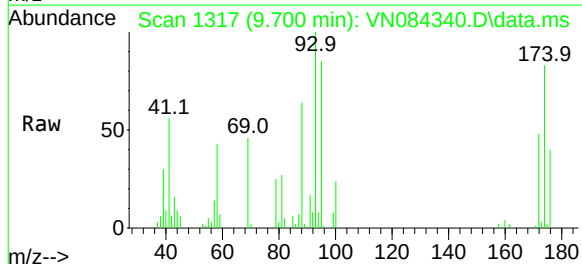
58 74.6 59.7 89.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#46

Methyl methacrylate

Concen: 19.761 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

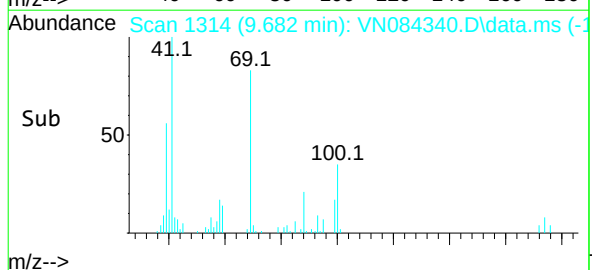
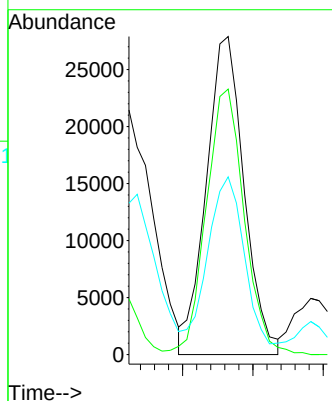
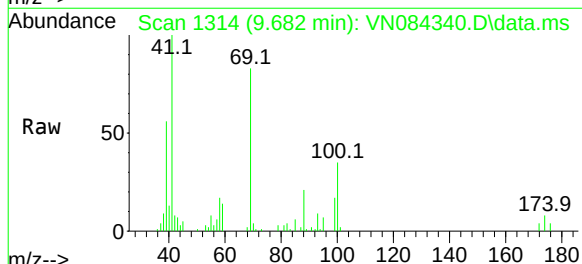
Tgt Ion: 41 Resp: 52087

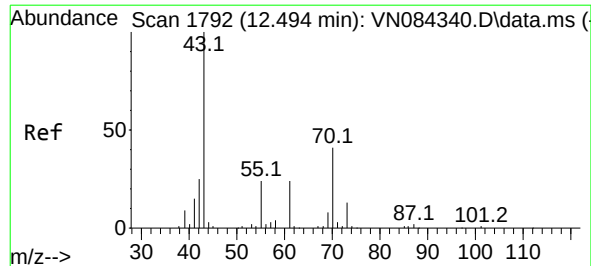
Ion Ratio Lower Upper

41 100

69 85.3 42.6 128.0

39 54.9 27.5 82.4





#47

n-amy1 Acetate

Concen: 19.654 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 95368

Ion Ratio Lower Upper

43 100

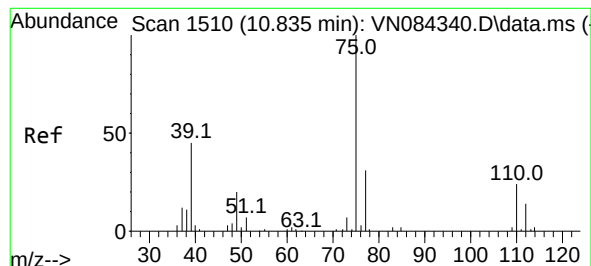
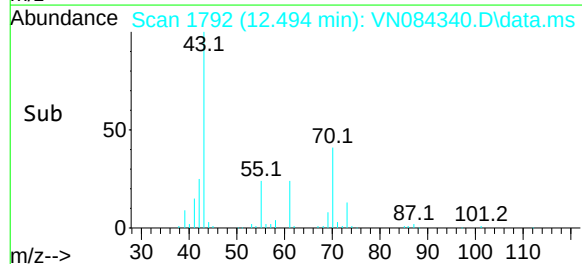
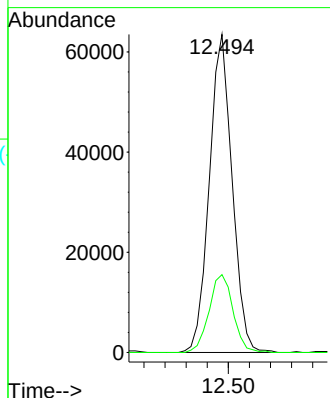
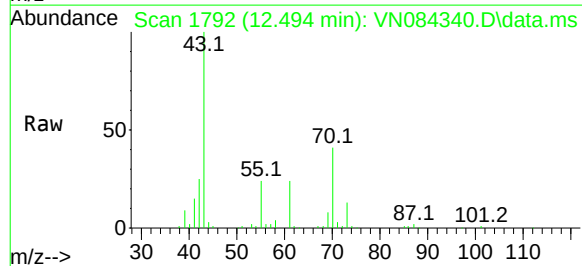
55 25.8 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#48

t-1,3-Dichloropropene

Concen: 19.470 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084340.D

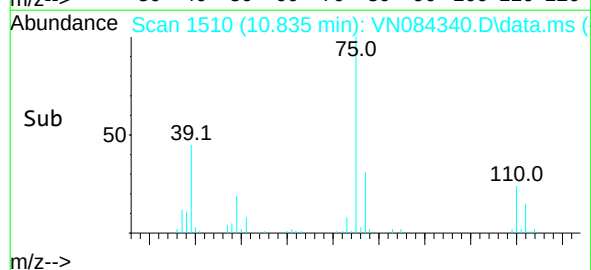
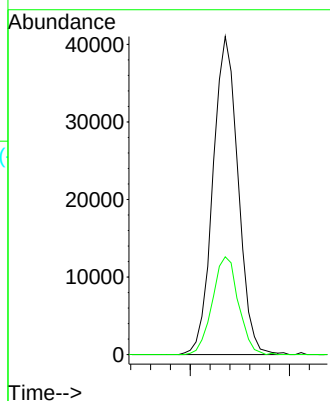
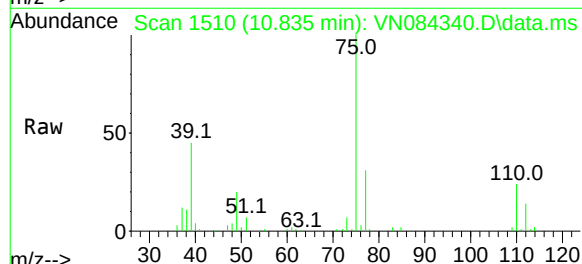
Acq: 08 Oct 2024 10:55

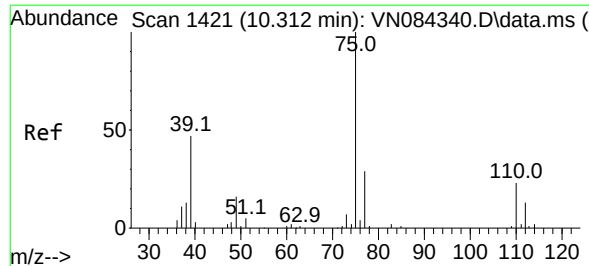
Tgt Ion: 75 Resp: 72331

Ion Ratio Lower Upper

75 100

77 30.8 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 20.292 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

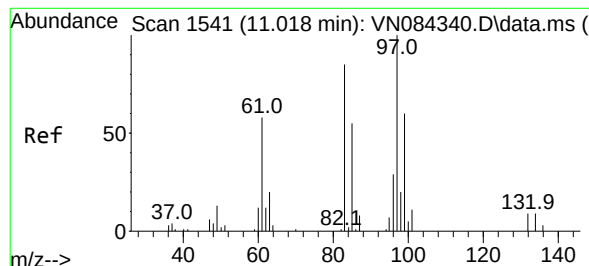
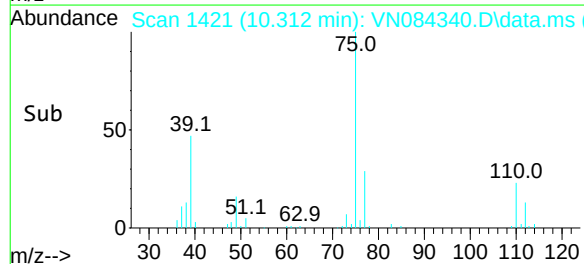
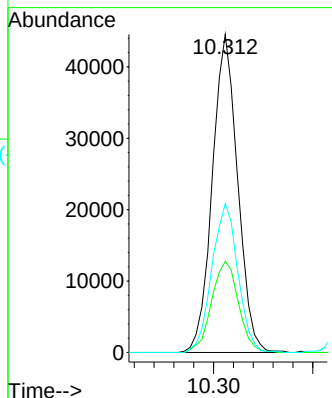
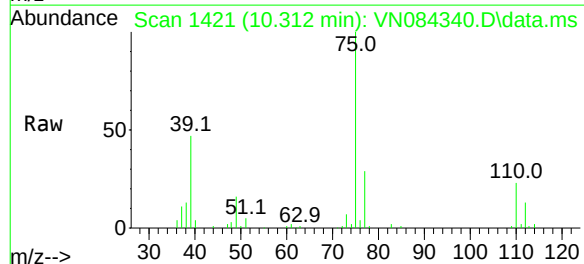
ClientSampleId :

VSTDICCC020

Tgt Ion:	75	Resp:	79003
Ion	Ratio	Lower	Upper
75	100		
77	28.6	22.9	34.3
39	46.8	37.4	56.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#50

1,1,2-Trichloroethane

Concen: 20.033 ug/l

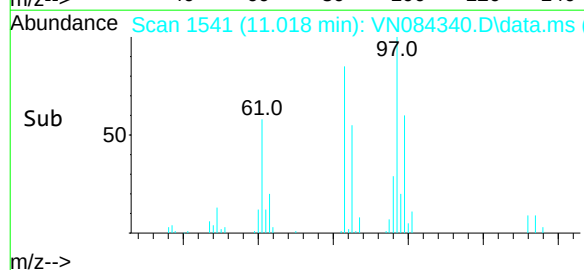
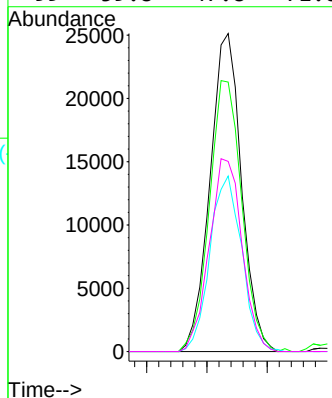
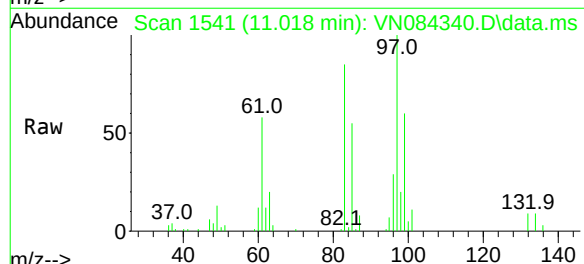
RT: 11.018 min Scan# 1541

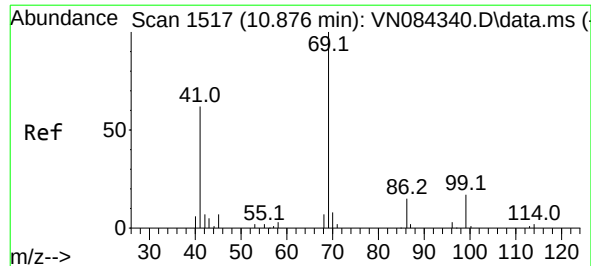
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	97	Resp:	45599
Ion	Ratio	Lower	Upper
97	100		
83	84.8	67.8	101.8
85	55.2	44.2	66.2
99	59.8	47.8	71.8





#51

Ethyl methacrylate

Concen: 19.701 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

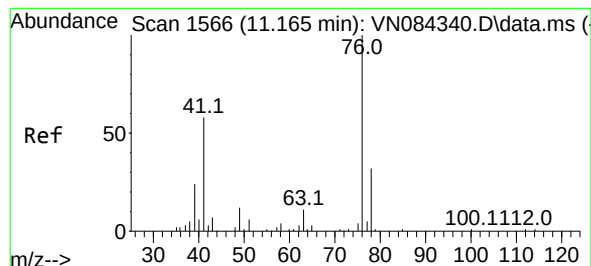
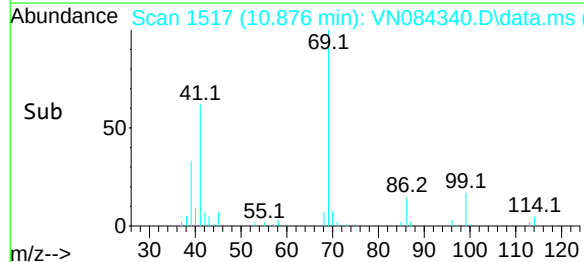
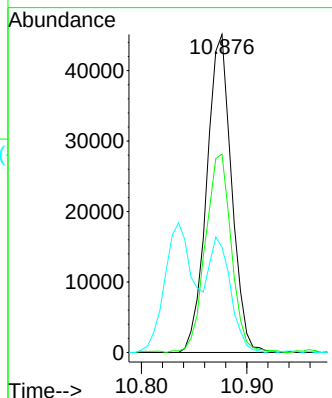
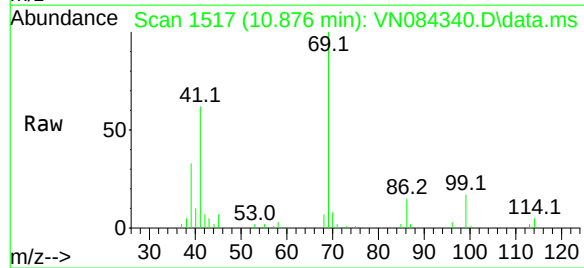
ClientSampleId :

VSTDICCC020

Tgt Ion:	69	Resp:	74076
Ion	Ratio	Lower	Upper
69	100		
41	61.8	30.9	92.7
39	33.1	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#52

1,3-Dichloropropane

Concen: 20.257 ug/l

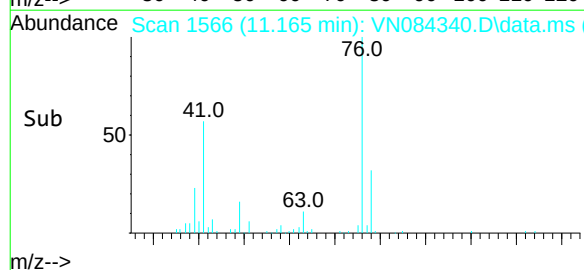
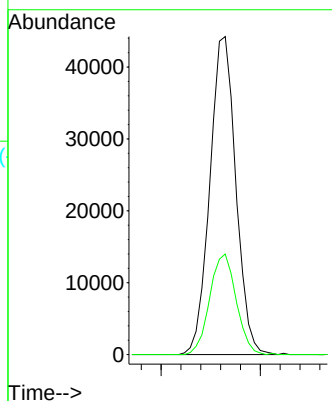
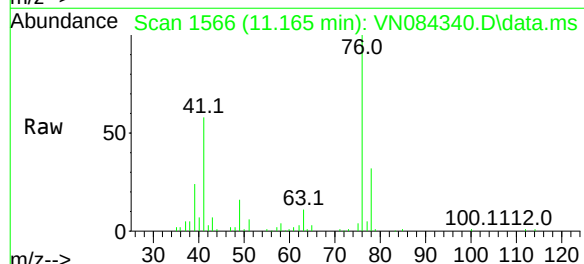
RT: 11.165 min Scan# 1566

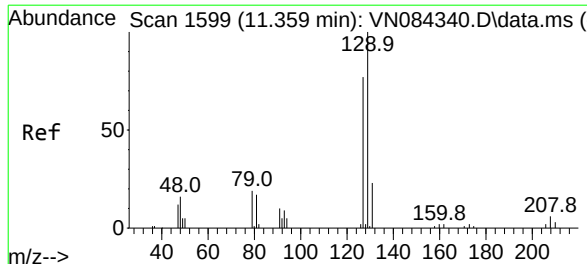
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	76	Resp:	80622
Ion	Ratio	Lower	Upper
76	100		
78	32.1	0.0	64.2





#53

Dibromochloromethane

Concen: 19.920 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:129 Resp: 53563

Ion Ratio Lower Upper

129 100

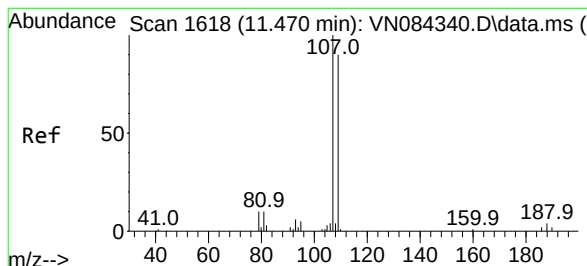
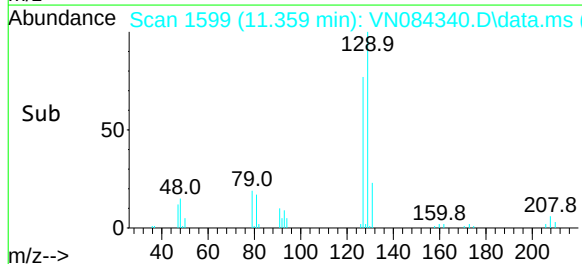
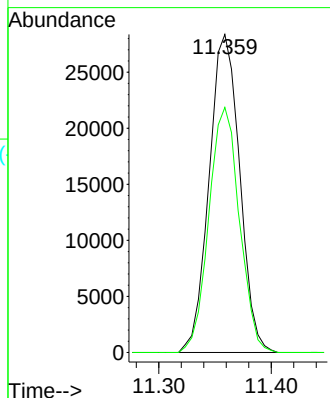
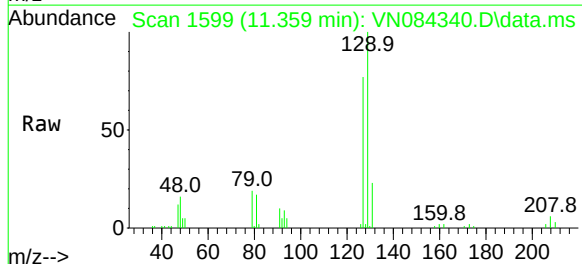
127 77.0 38.5 115.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#54

1,2-Dibromoethane

Concen: 20.362 ug/l

RT: 11.470 min Scan# 1618

Delta R.T. 0.000 min

Lab File: VN084340.D

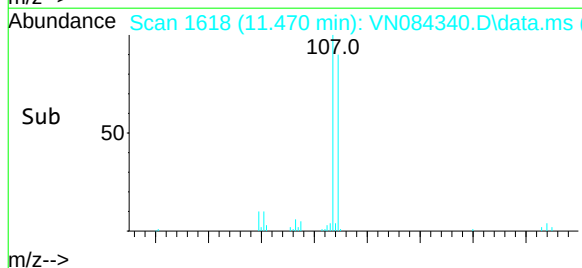
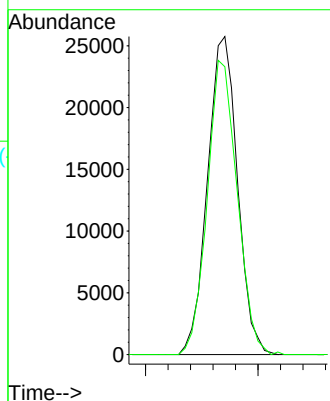
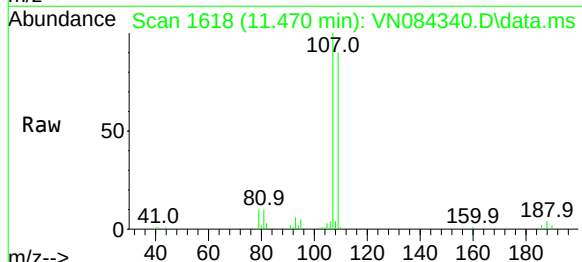
Acq: 08 Oct 2024 10:55

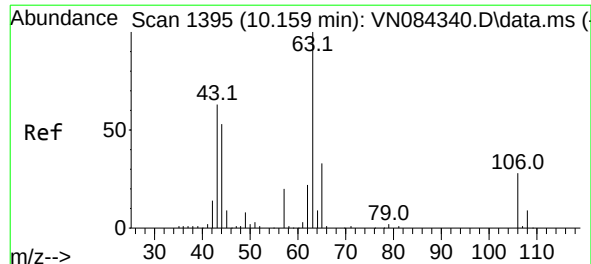
Tgt Ion:107 Resp: 47708

Ion Ratio Lower Upper

107 100

109 92.2 73.8 110.6





#55

2-Chloroethyl vinyl ether

Concen: 94.667 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN084340.D

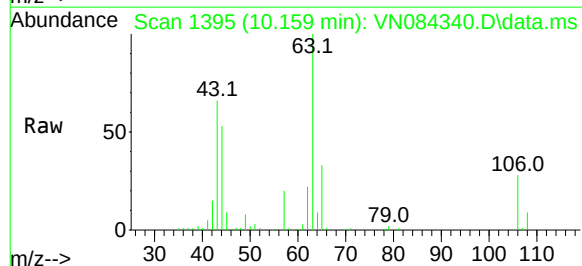
Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

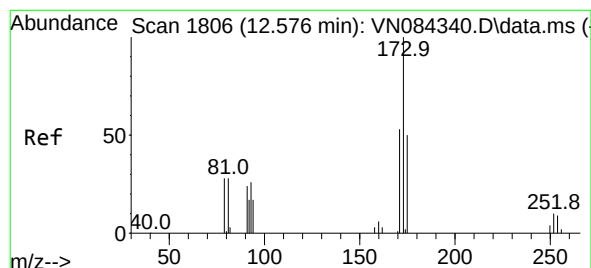
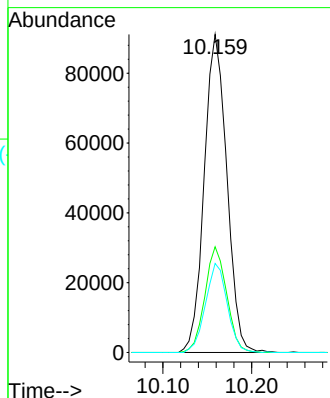
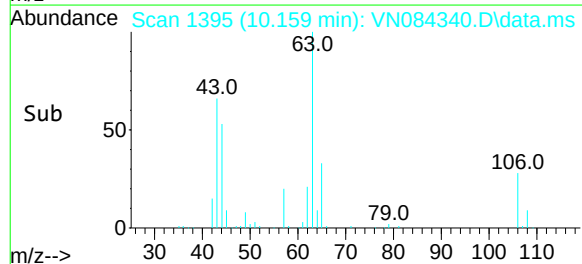
VSTDICCC020



Tgt Ion:	63	Resp:	161430
Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.6	38.4
106	27.0	21.6	32.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#56

Bromoform

Concen: 19.091 ug/l

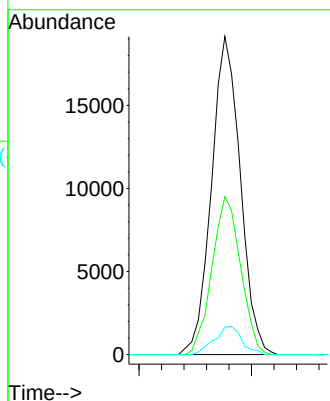
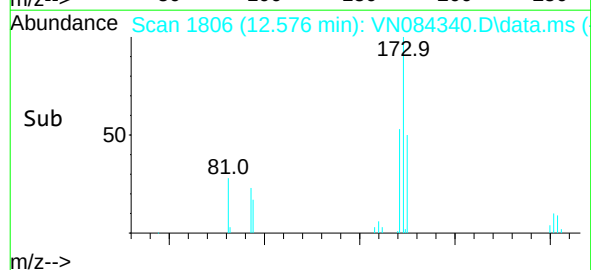
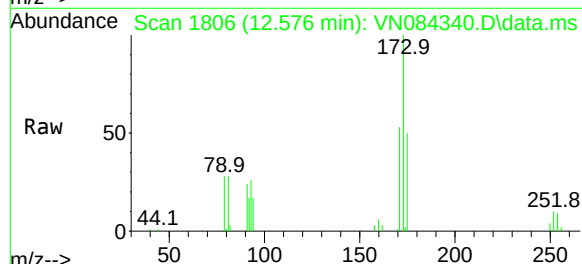
RT: 12.576 min Scan# 1806

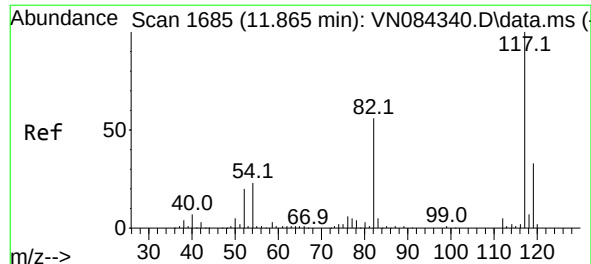
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	173	Resp:	34047
Ion	Ratio	Lower	Upper
173	100		
175	49.3	39.4	59.2
254	8.5	6.8	10.2





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:117 Resp: 180372

Ion Ratio Lower Upper

117 100

82 57.8 46.2 69.4

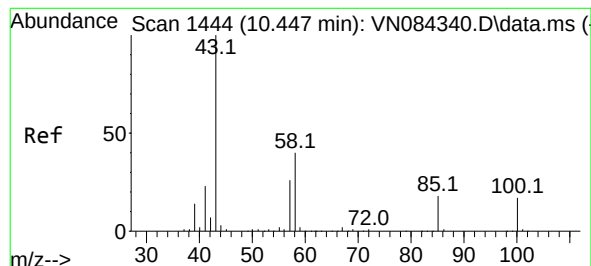
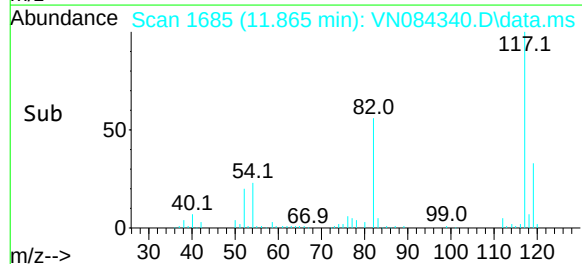
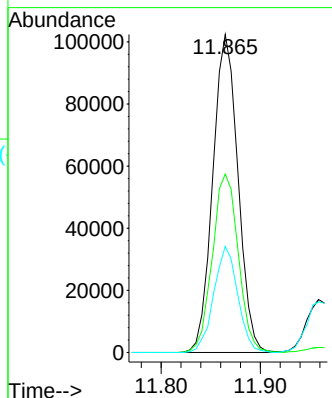
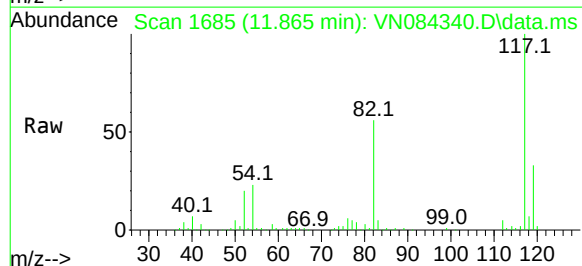
119 31.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#58

4-Methyl-2-Pentanone

Concen: 100.014 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

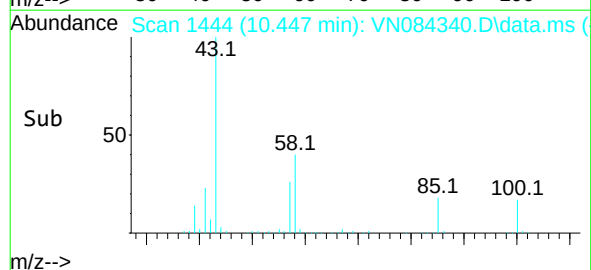
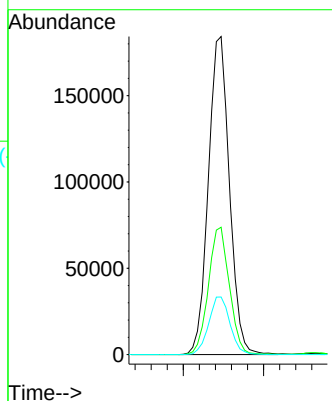
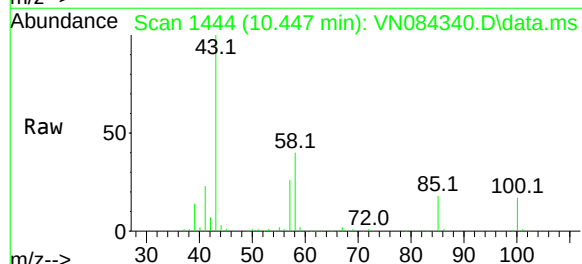
Tgt Ion: 43 Resp: 336052

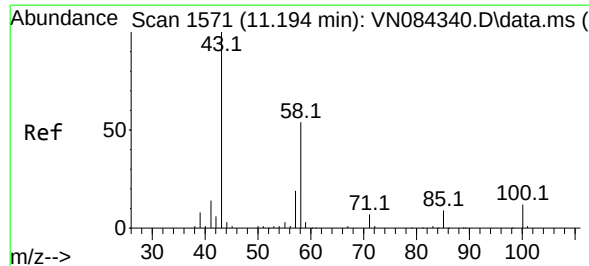
Ion Ratio Lower Upper

43 100

58 39.9 31.9 47.9

85 18.3 14.6 22.0





#59

2-Hexanone

Concen: 98.139 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 245036

Ion Ratio Lower Upper

43 100

58 55.0 44.0 66.0

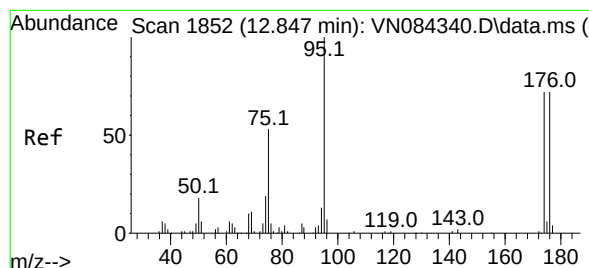
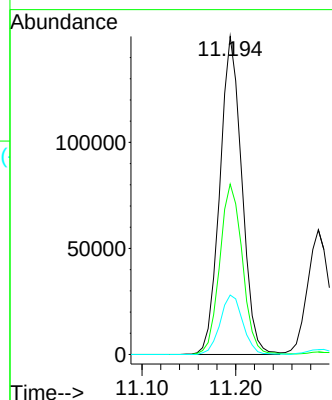
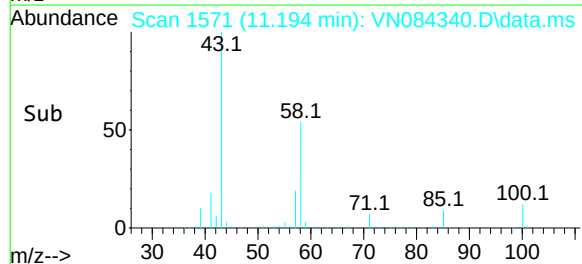
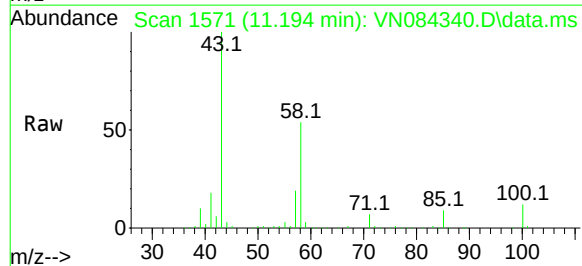
57 19.3 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#60

4-Bromofluorobenzene

Concen: 29.808 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

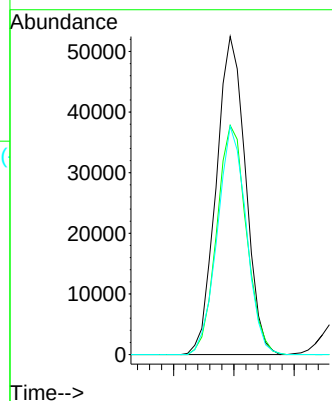
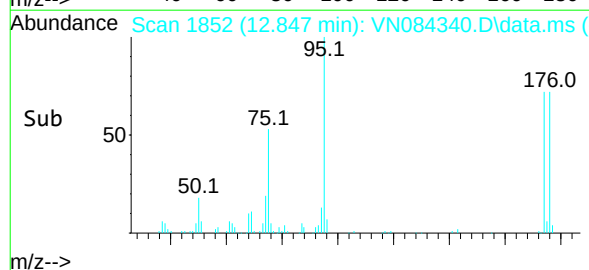
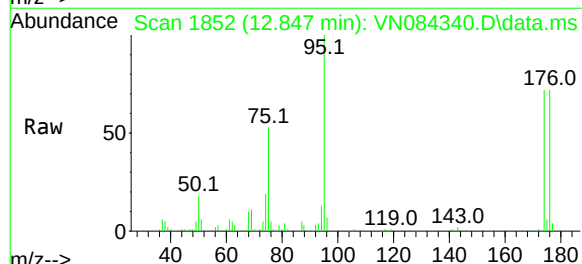
Tgt Ion: 95 Resp: 88736

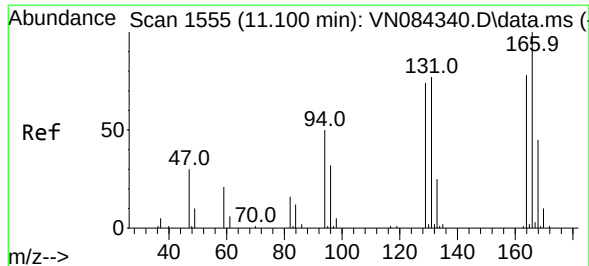
Ion Ratio Lower Upper

95 100

174 72.7 58.2 87.2

176 70.5 56.4 84.6





#61

Tetrachloroethene

Concen: 20.131 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN084340.D

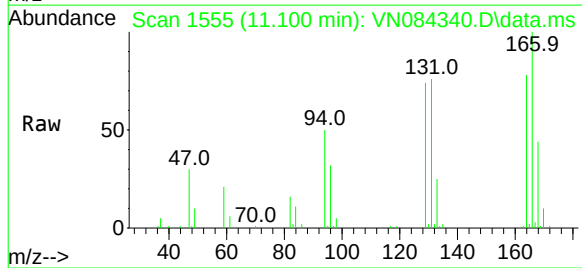
Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020



Tgt Ion:164 Resp: 41072

Ion Ratio Lower Upper

164 100

166 128.1 102.5 153.7

129 94.6 75.7 113.5

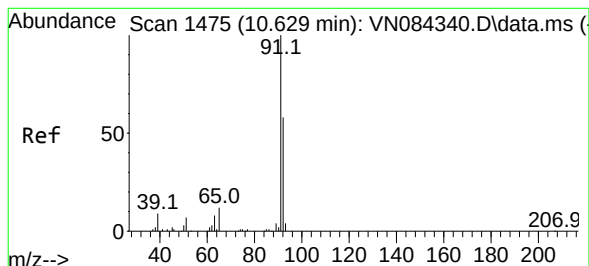
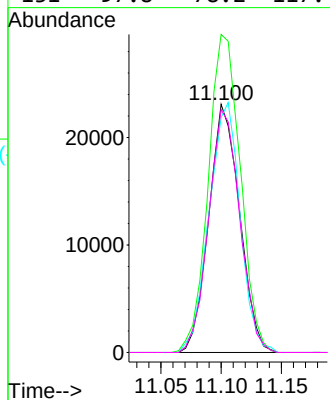
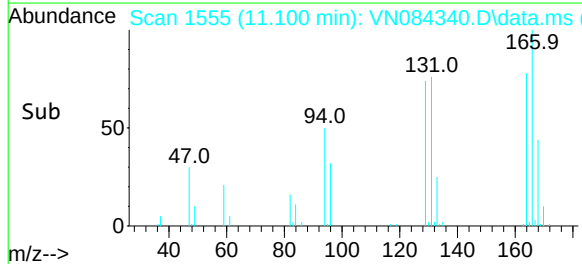
131 97.8 78.2 117.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#62

Toluene

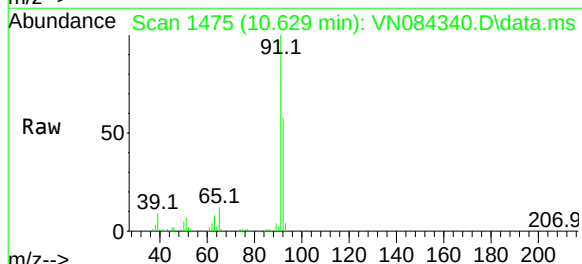
Concen: 20.058 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

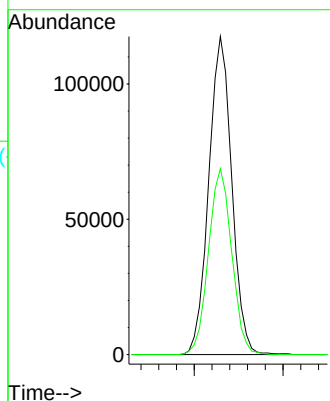
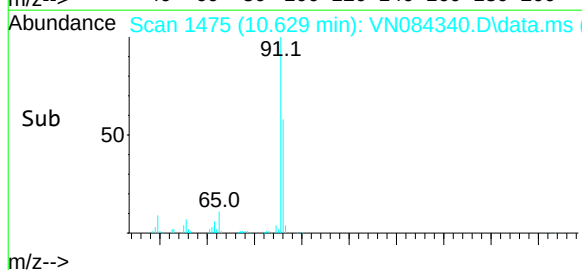


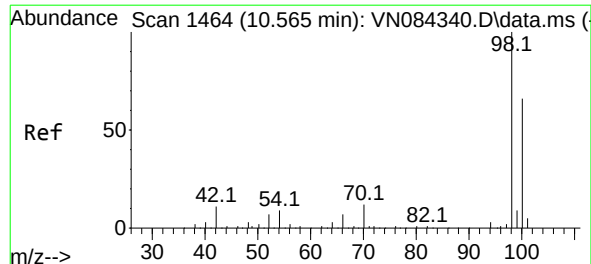
Tgt Ion: 91 Resp: 211795

Ion Ratio Lower Upper

91 100

92 59.0 47.2 70.8





#63

Toluene-d8

Concen: 30.121 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 98 Resp: 251690

Ion Ratio Lower Upper

98 100

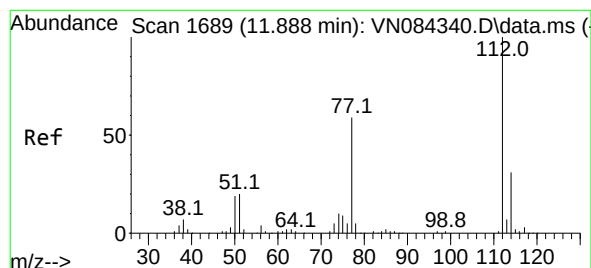
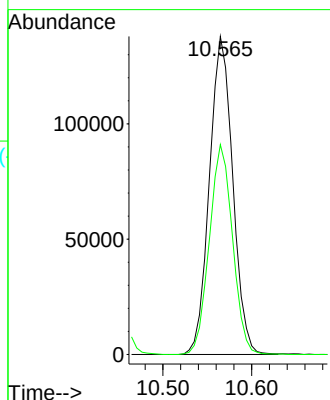
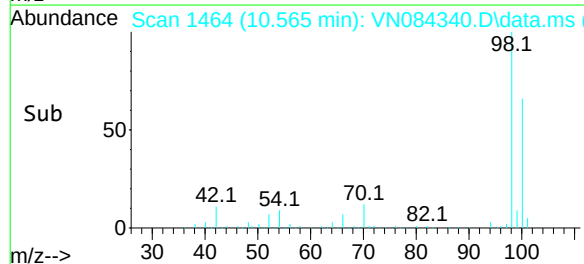
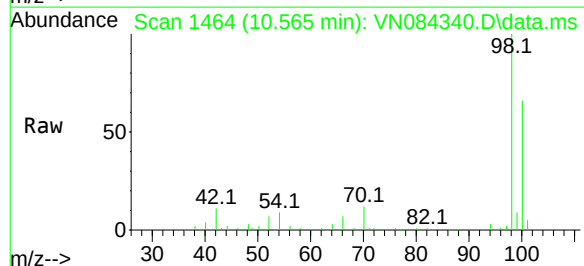
100 65.6 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#64

Chlorobenzene

Concen: 19.878 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084340.D

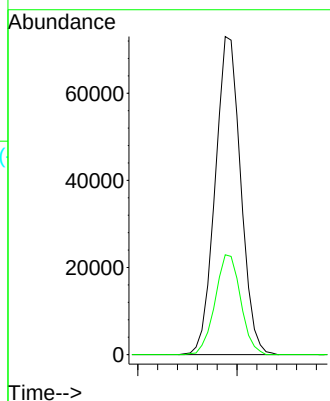
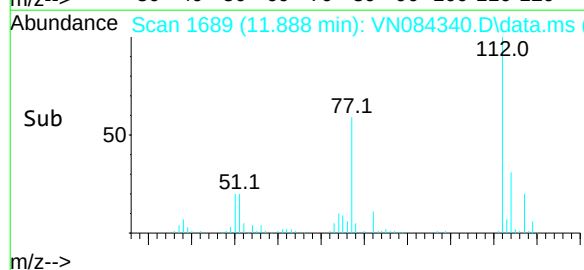
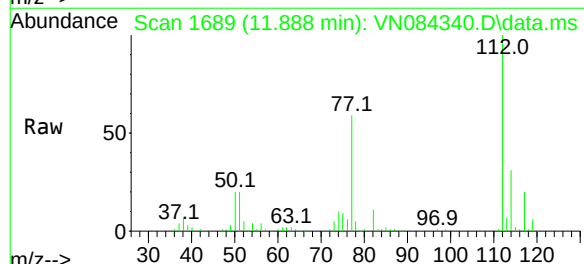
Acq: 08 Oct 2024 10:55

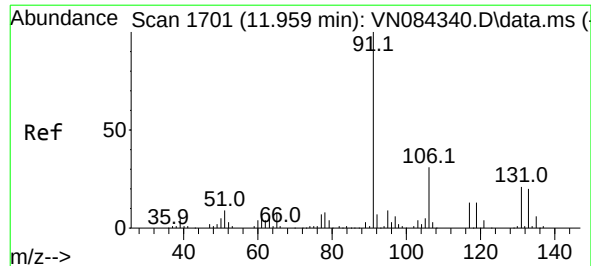
Tgt Ion:112 Resp: 130620

Ion Ratio Lower Upper

112 100

114 31.4 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 20.153 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

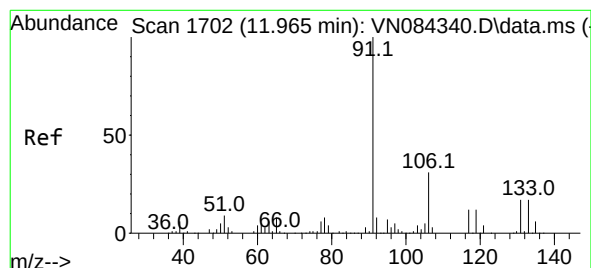
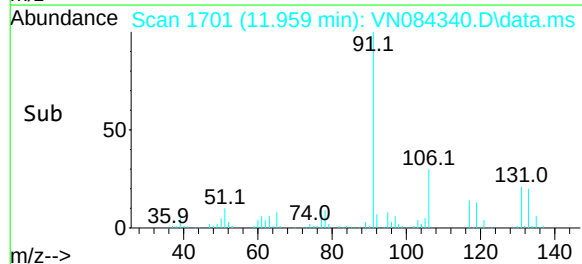
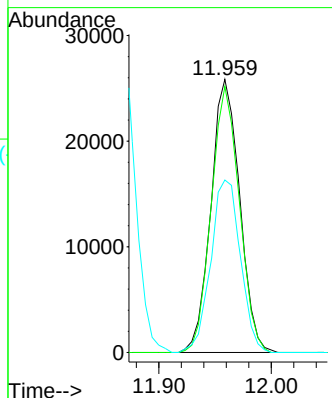
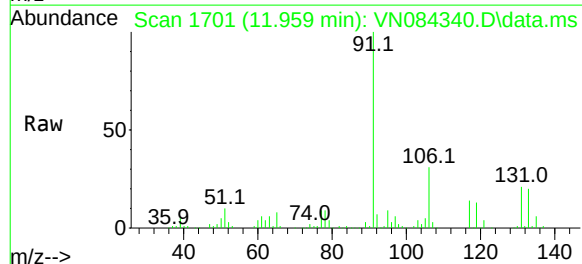
Tgt Ion:	131	Resp:	46005
Ion Ratio	Lower	Upper	
131	100		
133	95.2	0.0	190.4
119	65.0	0.0	130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#66

Ethyl Benzene

Concen: 19.804 ug/l

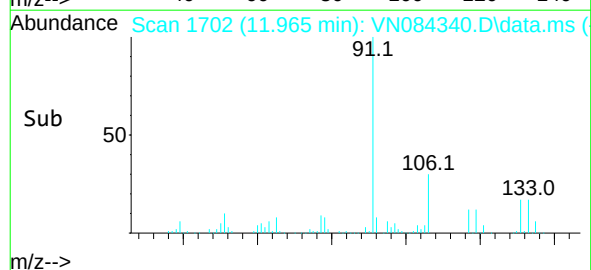
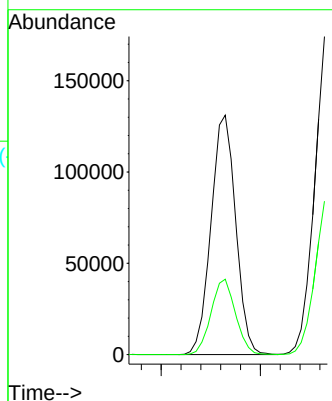
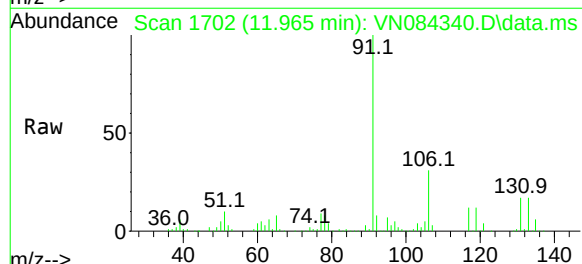
RT: 11.965 min Scan# 1702

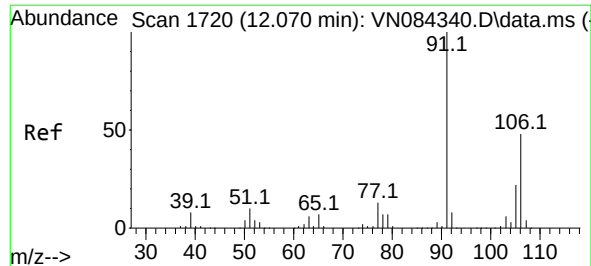
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	91	Resp:	227198
Ion Ratio	Lower	Upper	
91	100		
106	31.5	25.2	37.8





#67

m/p-Xylenes

Concen: 40.081 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:106 Resp: 174434

Ion Ratio Lower Upper

106 100

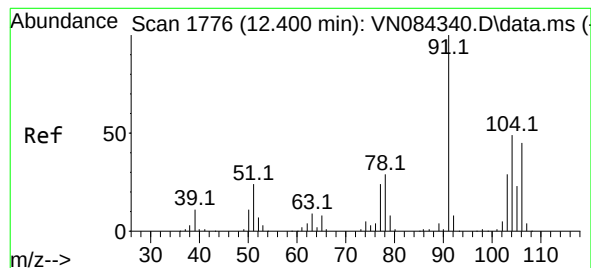
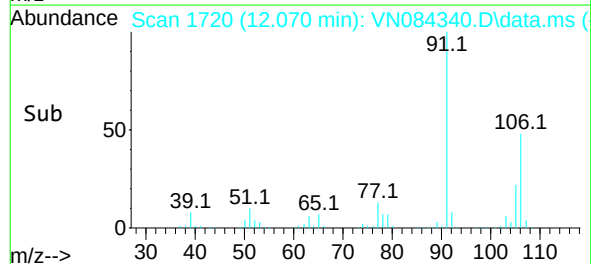
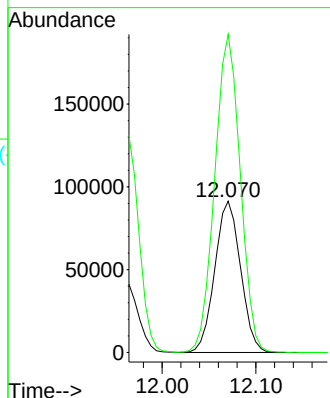
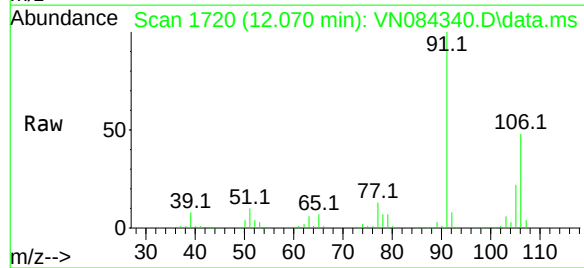
91 208.4 166.7 250.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#68

o-Xylene

Concen: 19.823 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN084340.D

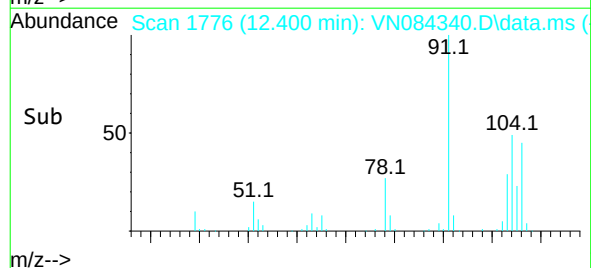
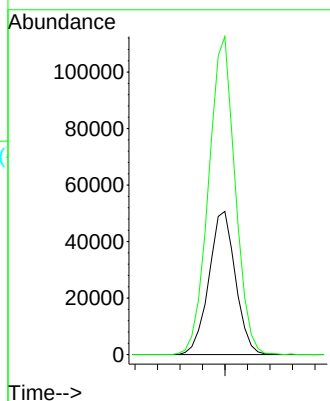
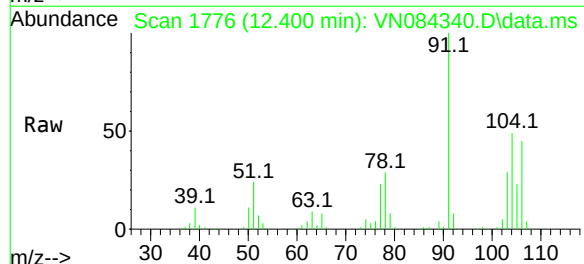
Acq: 08 Oct 2024 10:55

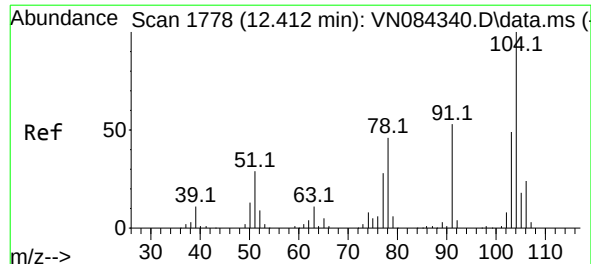
Tgt Ion:106 Resp: 83154

Ion Ratio Lower Upper

106 100

91 221.9 110.9 332.9





#69

Styrene

Concen: 19.752 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

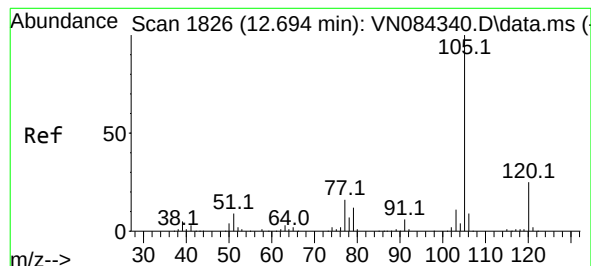
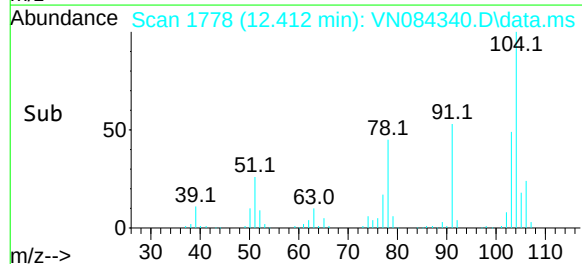
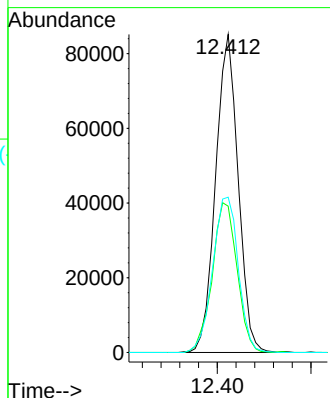
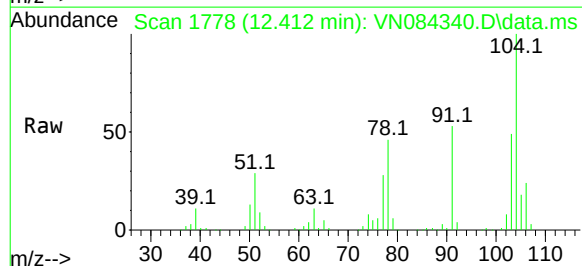
ClientSampleId :

VSTDICCC020

Tgt Ion:	104	Resp:	142239
Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.6	62.4
103	55.5	44.4	66.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#70

Isopropylbenzene

Concen: 20.060 ug/l

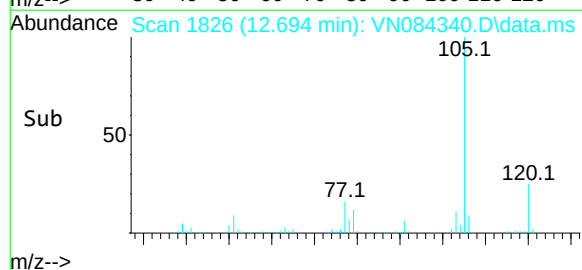
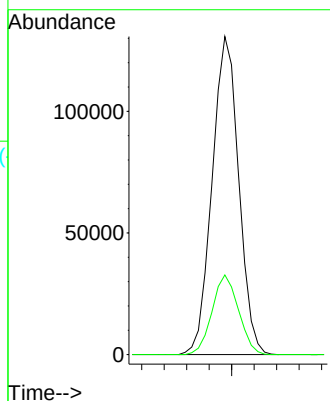
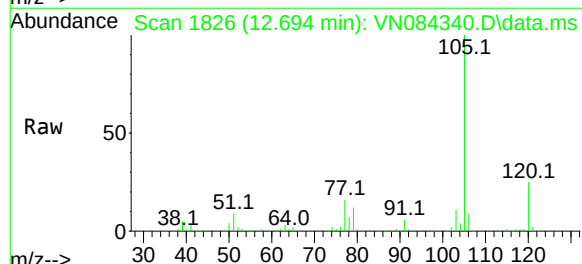
RT: 12.694 min Scan# 1826

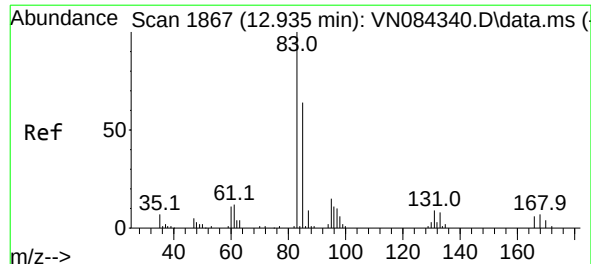
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	105	Resp:	214822
Ion	Ratio	Lower	Upper
105	100		
120	24.9	17.4	32.4





#71

1,1,2,2-Tetrachloroethane

Concen: 19.931 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

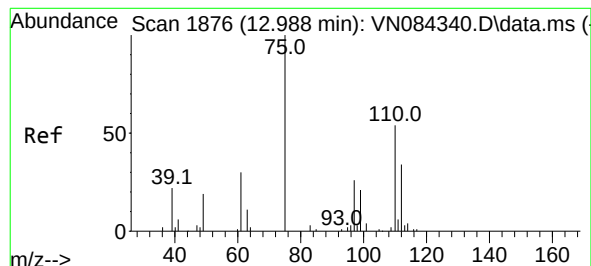
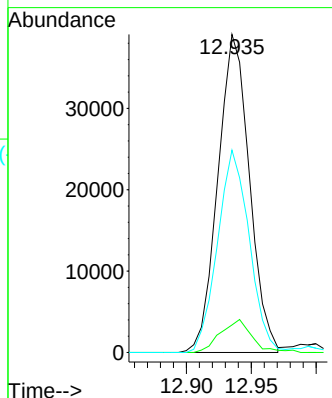
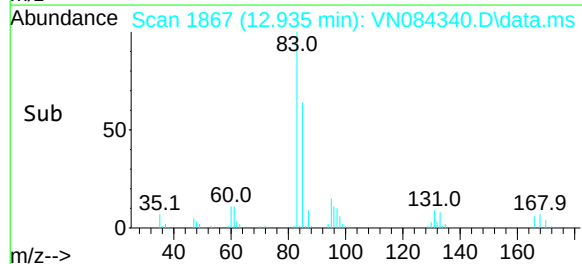
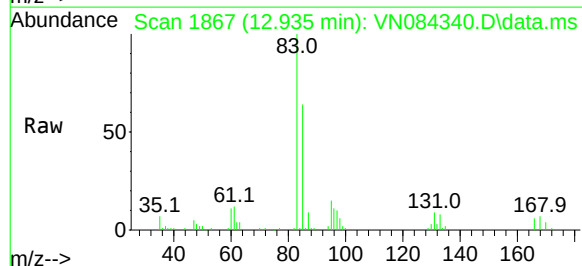
Tgt Ion:	83	Resp:	66030
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	64.1	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#72

1,2,3-Trichloropropane

Concen: 19.781 ug/l m

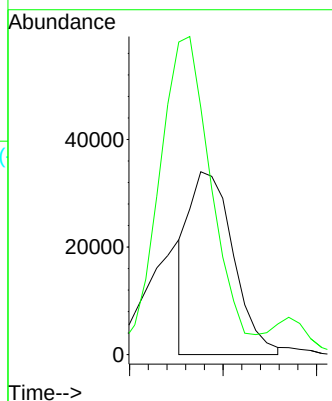
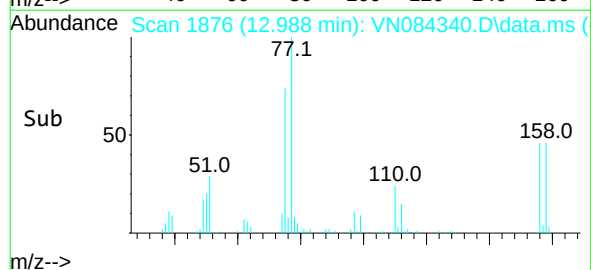
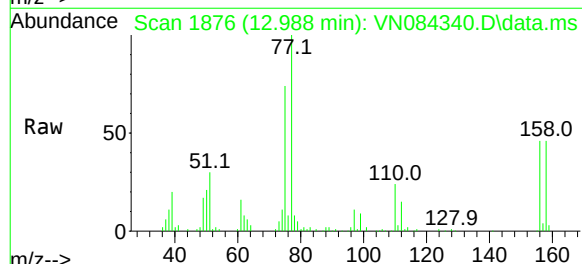
RT: 12.988 min Scan# 1876

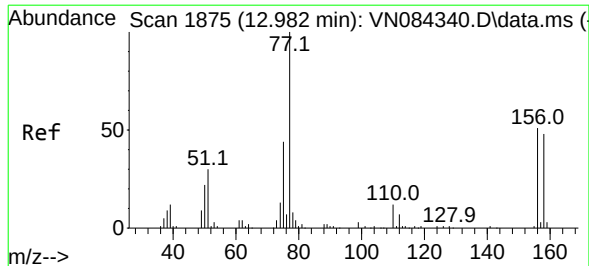
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	75	Resp:	56046
Ion	Ratio	Lower	Upper
75	100		
77	207.0	0.0	414.0





#73

Bromobenzene

Concen: 19.834 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VN084340.D

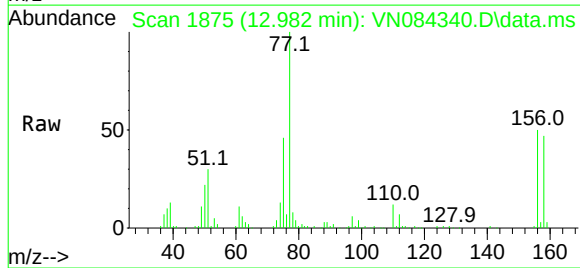
Acq: 08 Oct 2024 10:55

Instrument :

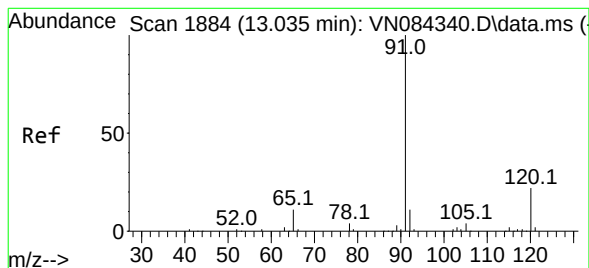
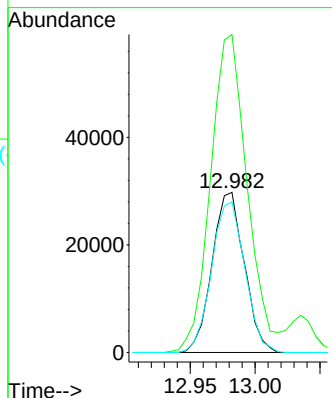
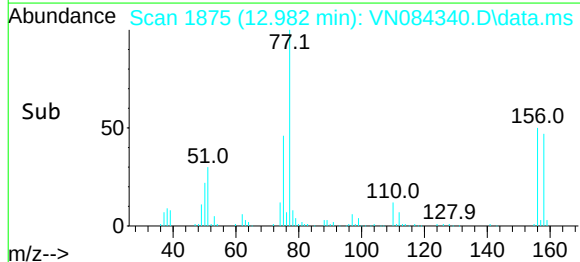
MSVOA_N

ClientSampleId :

VSTDICCC020



Tgt Ion:	156	Resp:	51441
Ion	Ratio	Lower	Upper
156	100		
77	225.5	0.0	451.0
158	97.3	0.0	194.6

Manual Integrations
APPROVEDReviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

#74

n-propylbenzene

Concen: 19.856 ug/l

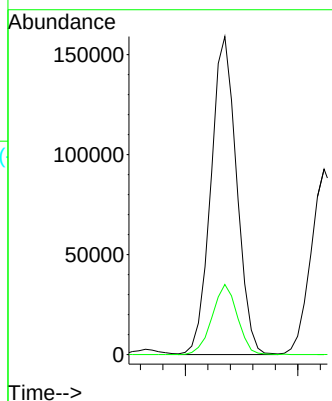
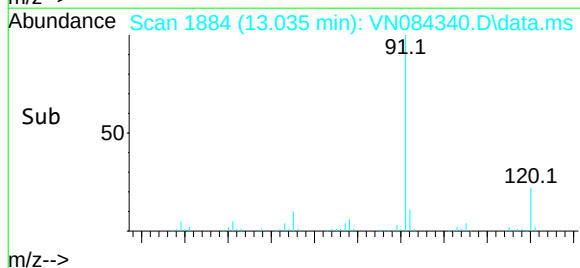
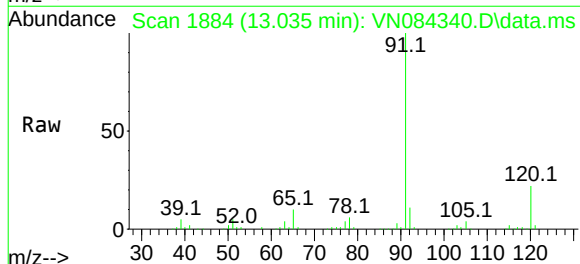
RT: 13.035 min Scan# 1884

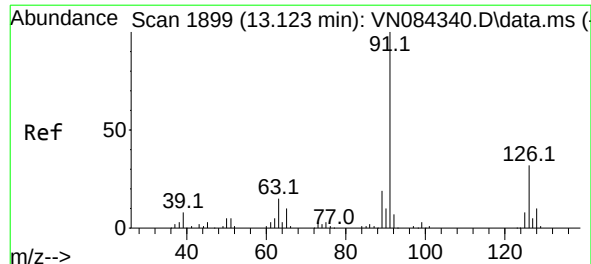
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	91	Resp:	253393
Ion	Ratio	Lower	Upper
91	100		
120	21.6	0.0	43.2





#75

2-Chlorotoluene

Concen: 20.048 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 91 Resp: 158981

Ion Ratio Lower Upper

91 100

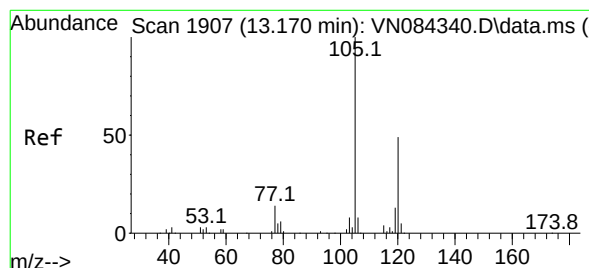
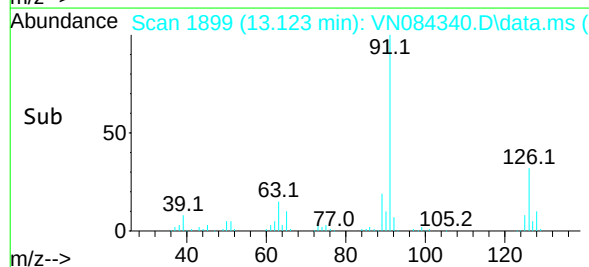
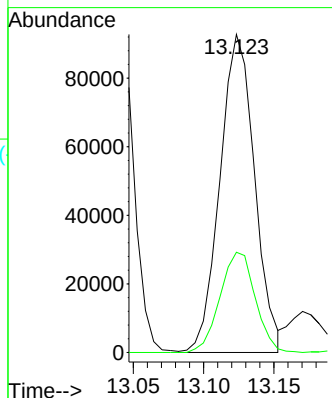
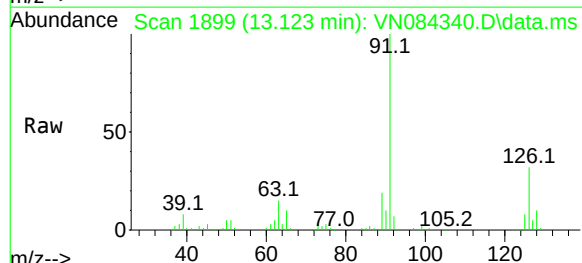
126 32.0 0.0 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#76

1,3,5-Trimethylbenzene

Concen: 19.838 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084340.D

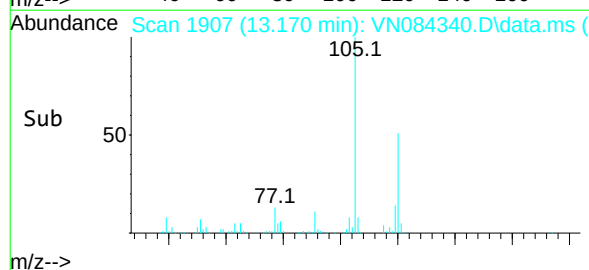
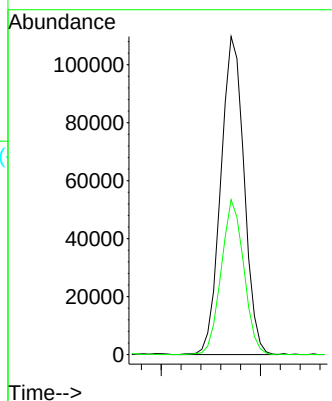
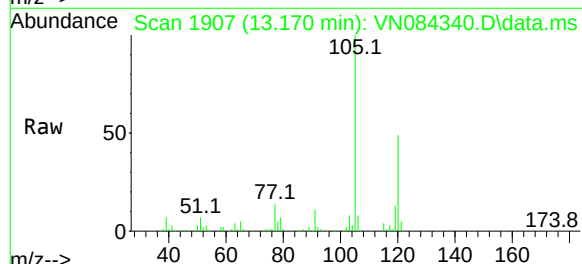
Acq: 08 Oct 2024 10:55

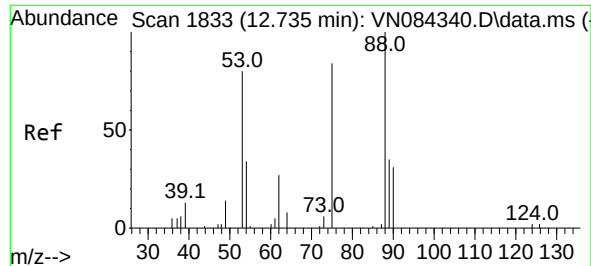
Tgt Ion:105 Resp: 178878

Ion Ratio Lower Upper

105 100

120 47.2 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 18.583 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

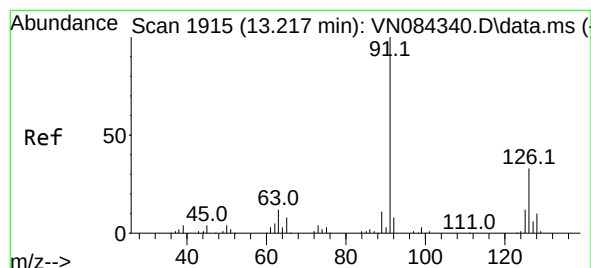
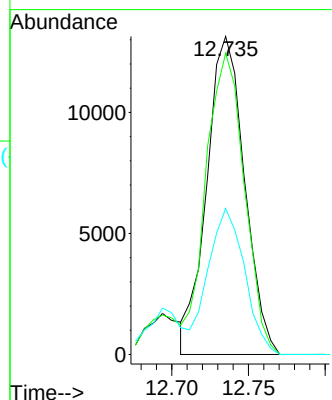
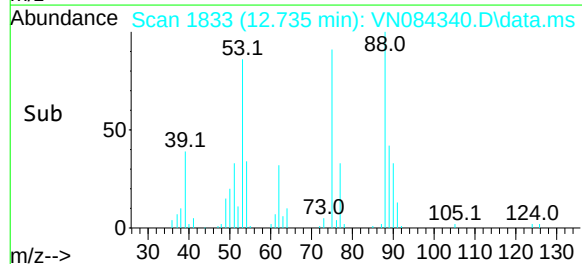
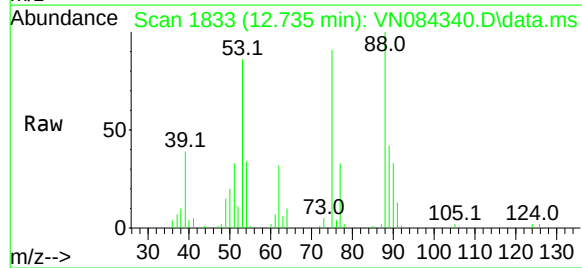
VSTDICCC020

Tgt Ion:	75	Resp:	22530
Ion	Ratio	Lower	Upper
75	100		
53	94.7	47.3	142.0
89	45.9	22.9	68.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#78

4-Chlorotoluene

Concen: 19.735 ug/l

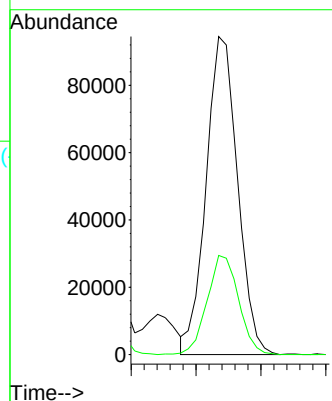
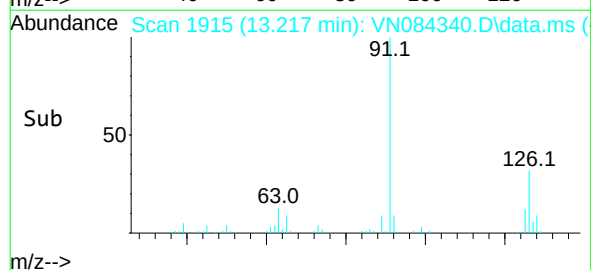
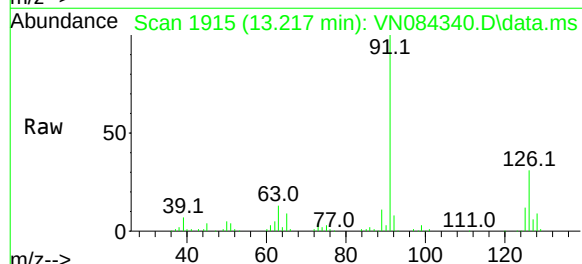
RT: 13.217 min Scan# 1915

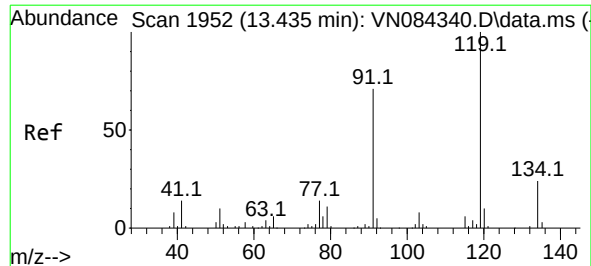
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	91	Resp:	159107
Ion	Ratio	Lower	Upper
91	100		
126	31.2	0.0	62.4





#79

tert-butylbenzene

Concen: 19.692 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

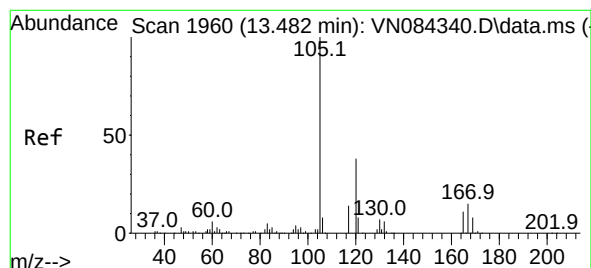
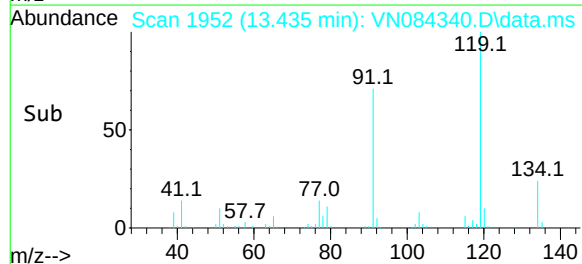
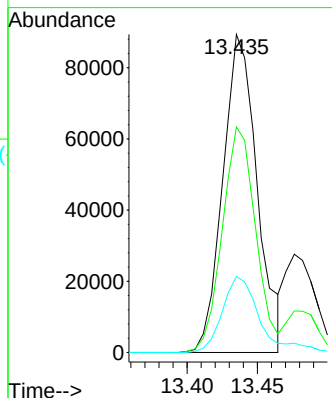
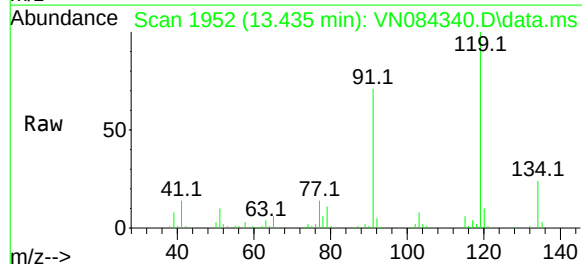
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion	119	Resp	151487
Ion	Ratio	Lower	Upper
119	100		
91	69.0	0.0	138.0
134	24.4	0.0	48.8

Manual Integrations
APPROVEDReviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

#80

1,2,4-Trimethylbenzene

Concen: 19.743 ug/l

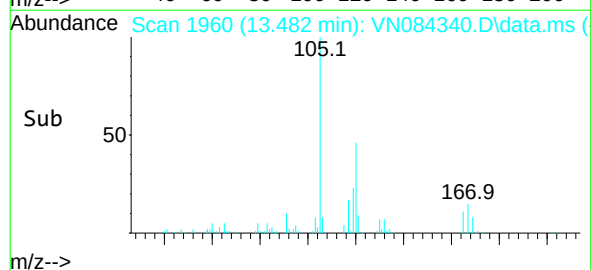
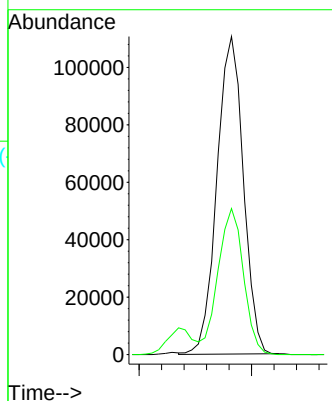
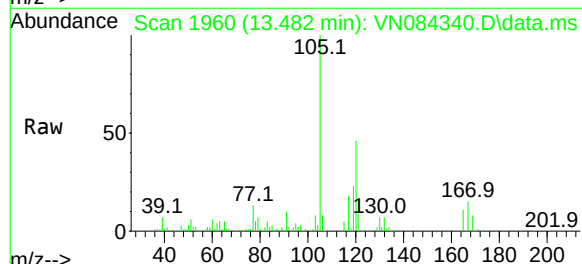
RT: 13.482 min Scan# 1960

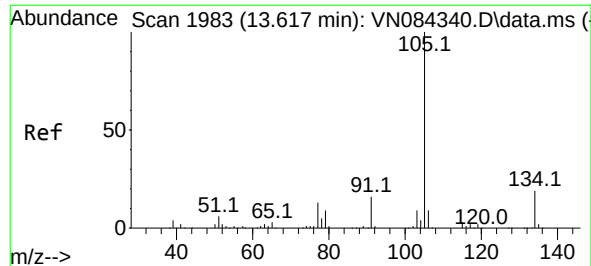
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion	105	Resp	180628
Ion	Ratio	Lower	Upper
105	100		
120	44.4	0.0	88.8





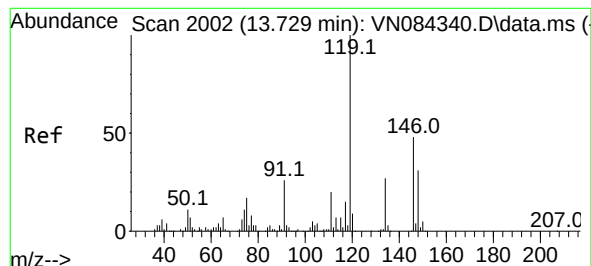
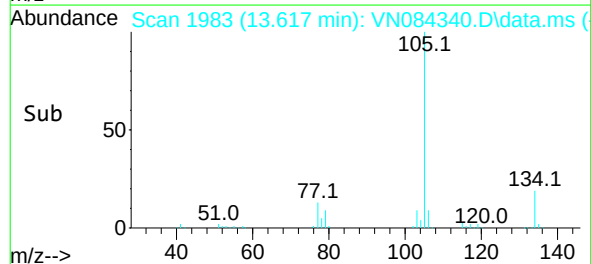
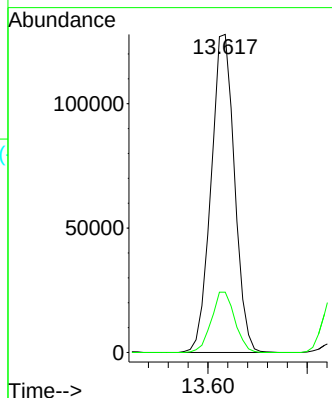
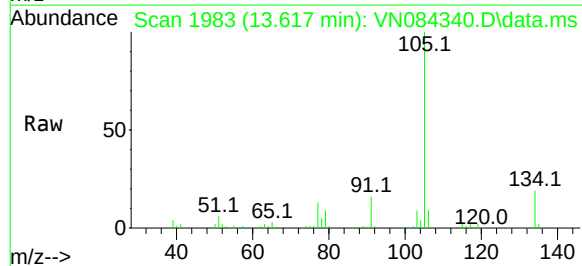
#81
sec-Butylbenzene
Concen: 19.829 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:105 Resp: 210010
Ion Ratio Lower Upper
105 100
134 19.0 0.0 38.0

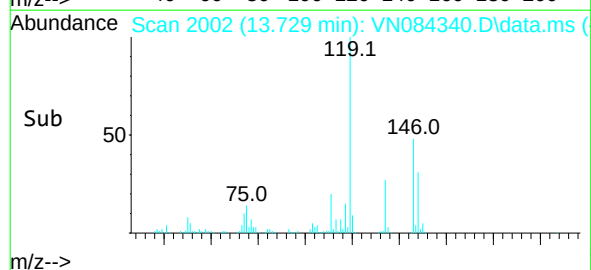
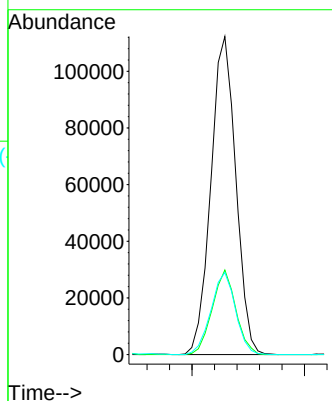
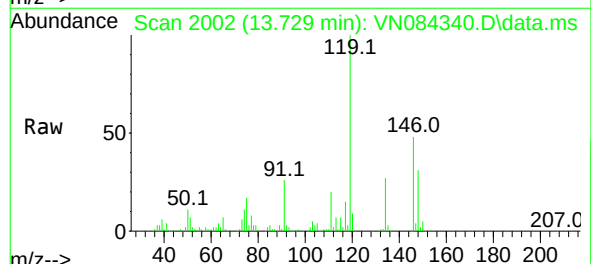
Manual Integrations
APPROVED

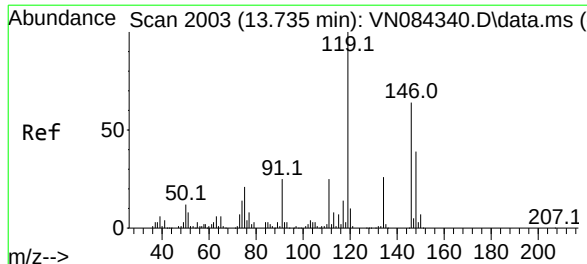
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#82
p-Isopropyltoluene
Concen: 19.415 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084340.D
Acq: 08 Oct 2024 10:55

Tgt Ion:119 Resp: 173074
Ion Ratio Lower Upper
119 100
134 25.1 0.0 50.2
91 25.3 0.0 50.6





#83

1,3-Dichlorobenzene

Concen: 19.711 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

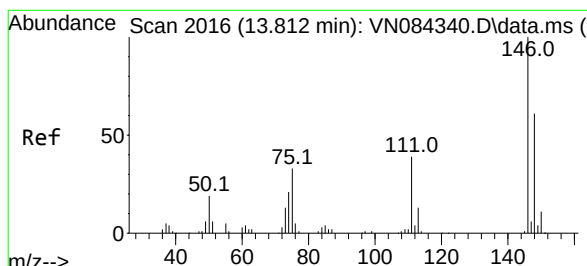
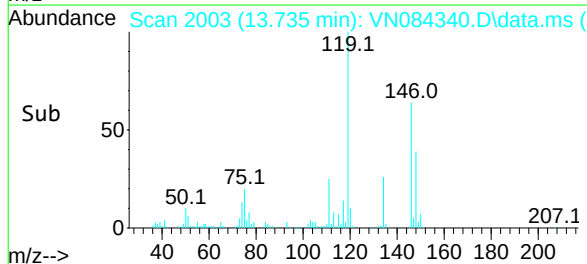
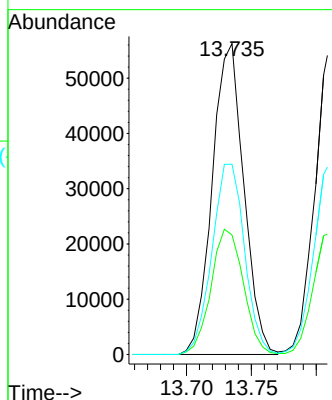
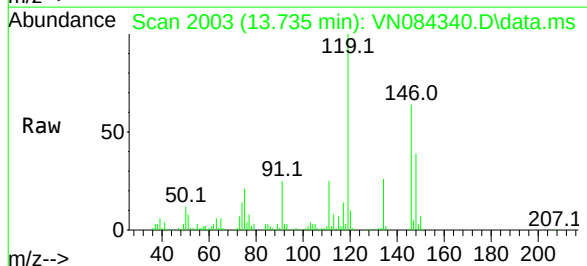
ClientSampleId :

VSTDICCC020

Tgt Ion:	146	Resp:	95054
Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.6	61.9
148	63.1	31.6	94.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#84

1,4-Dichlorobenzene

Concen: 19.121 ug/l

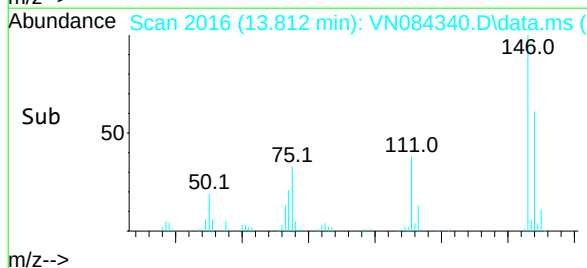
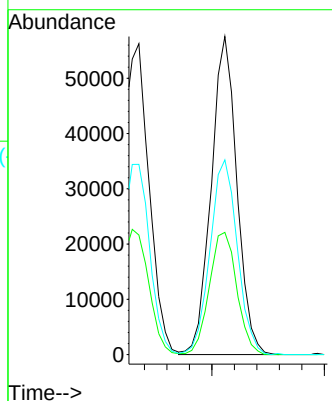
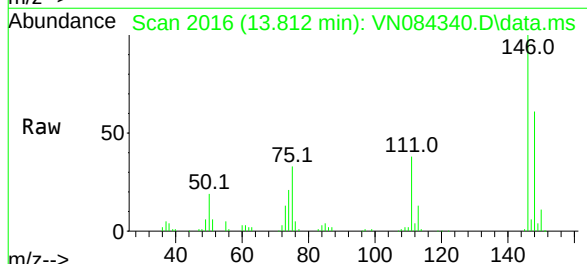
RT: 13.812 min Scan# 2016

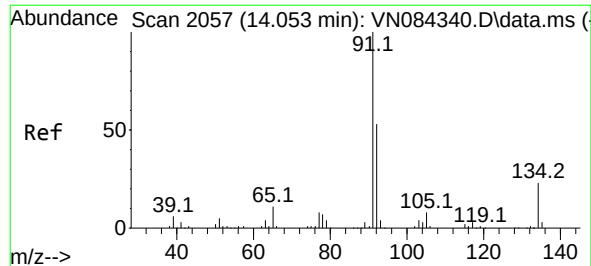
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	146	Resp:	91564
Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.5	61.5
148	64.9	32.5	97.4





#85

n-Butylbenzene

Concen: 18.676 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

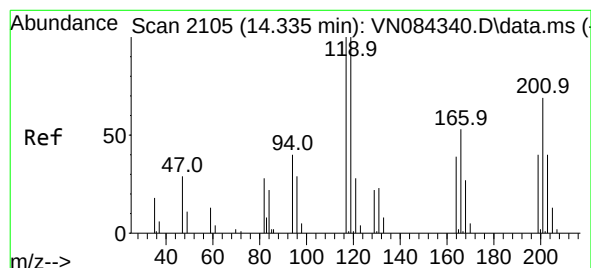
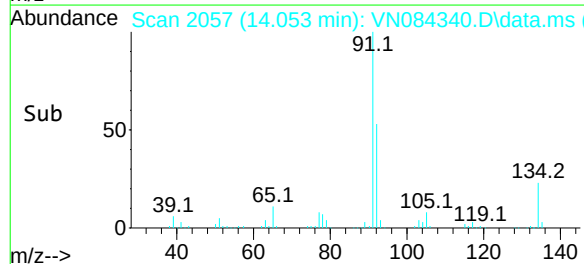
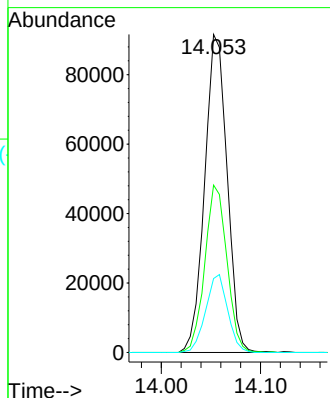
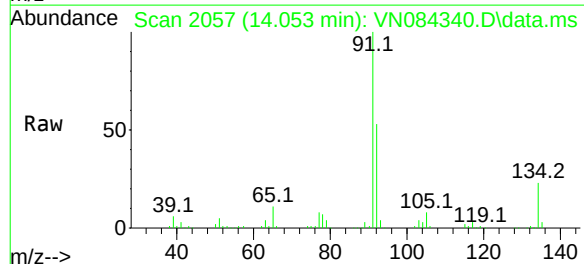
ClientSampleId :

VSTDICCC020

Tgt Ion:	91	Resp:	144192
Ion	Ratio	Lower	Upper
91	100		
92	51.7	0.0	103.4
134	24.0	0.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#86

Hexachloroethane

Concen: 19.524 ug/l

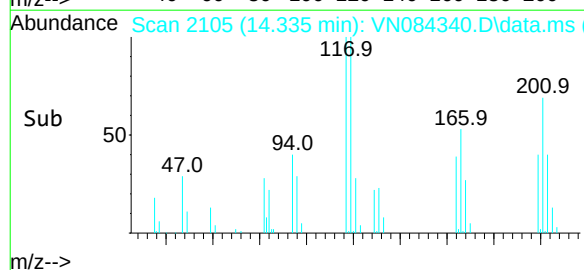
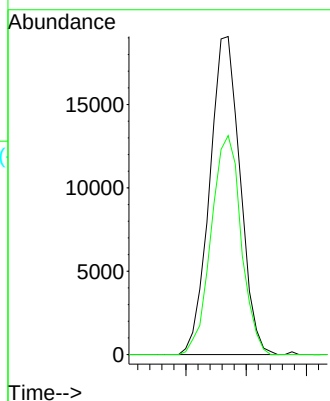
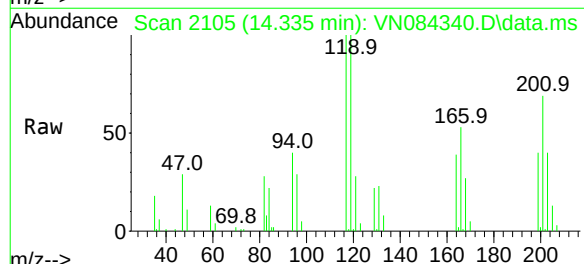
RT: 14.335 min Scan# 2105

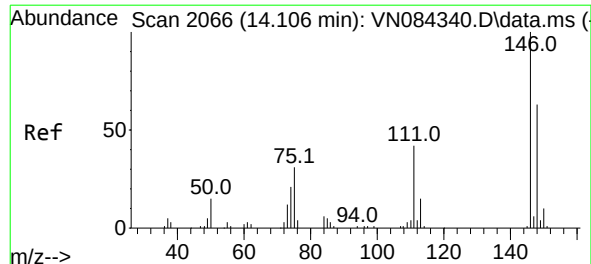
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	117	Resp:	33531
Ion	Ratio	Lower	Upper
117	100		
201	67.7	33.9	101.6





#87

1,2-Dichlorobenzene

Concen: 19.503 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

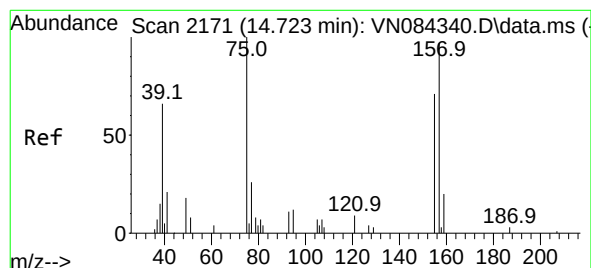
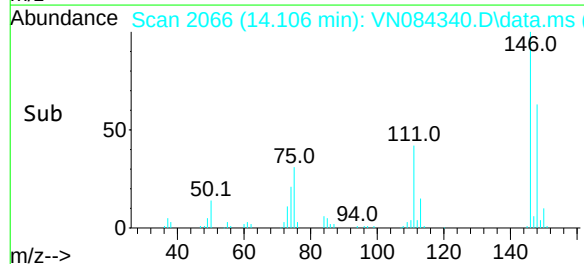
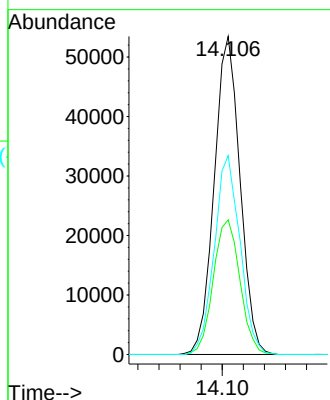
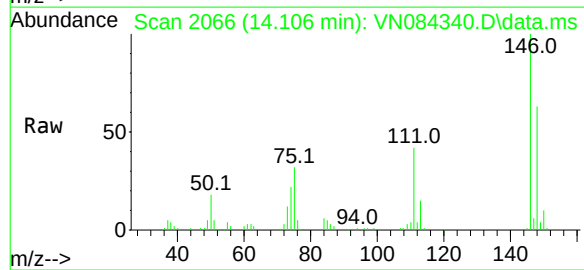
Tgt Ion:	146	Resp:	90933
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.9	65.5
148	62.3	31.1	93.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.543 ug/l

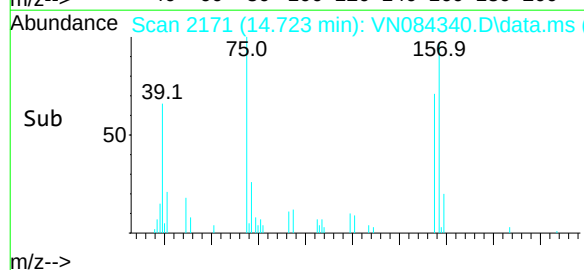
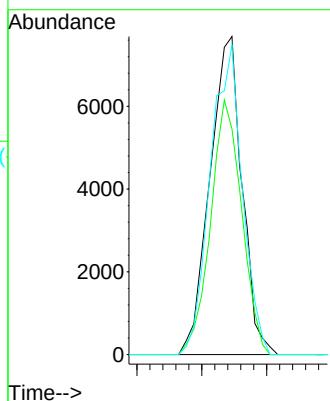
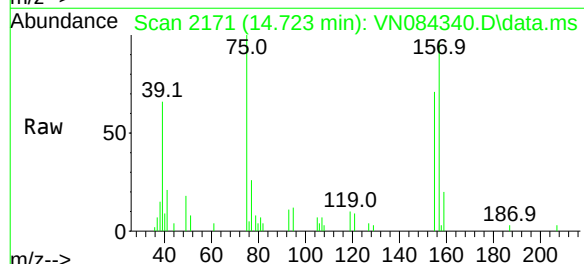
RT: 14.723 min Scan# 2171

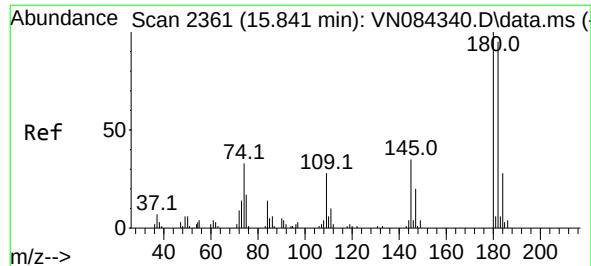
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	75	Resp:	13240
Ion	Ratio	Lower	Upper
75	100		
155	77.3	61.8	92.8
157	96.7	77.4	116.0





#89

1,2,4-Trichlorobenzene

Concen: 18.915 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

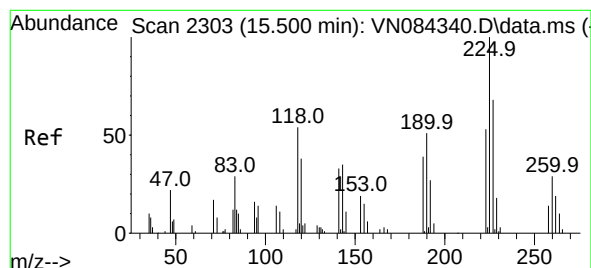
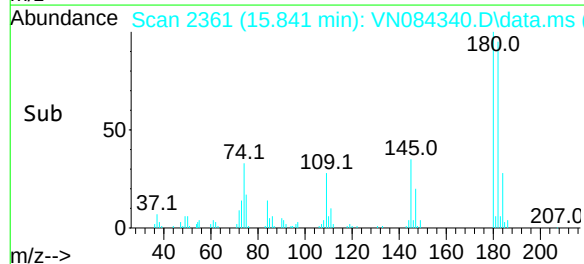
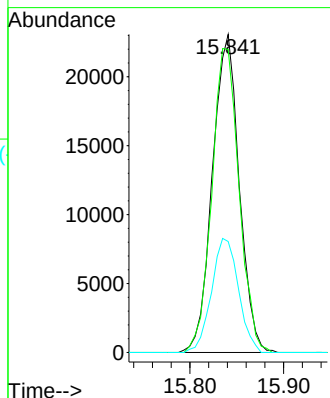
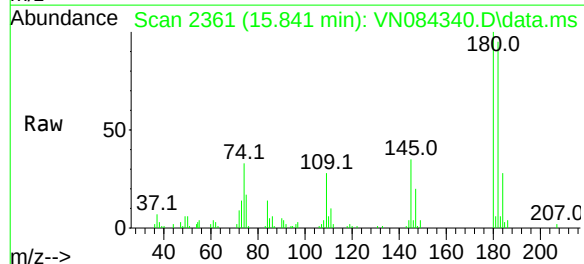
Tgt Ion:	180	Resp:	45853
Ion Ratio	Lower	Upper	
180	100		
182	97.2	77.8	116.6
145	36.1	28.9	43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#90

Hexachlorobutadiene

Concen: 18.600 ug/l

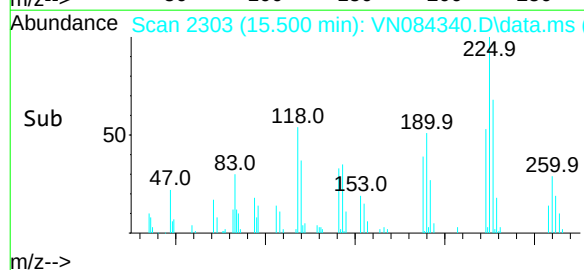
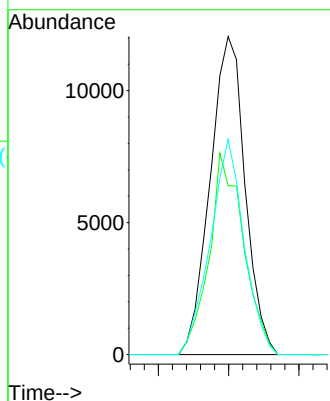
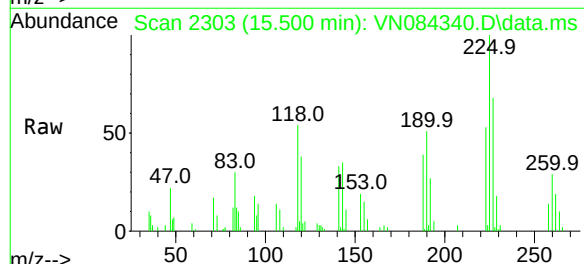
RT: 15.500 min Scan# 2303

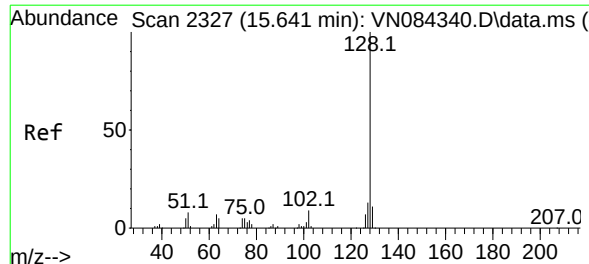
Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	225	Resp:	20860
Ion Ratio	Lower	Upper	
225	100		
223	62.0	0.0	124.0
227	65.4	0.0	130.8





#91

Naphthalene

Concen: 18.804 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Instrument :

MSVOA_N

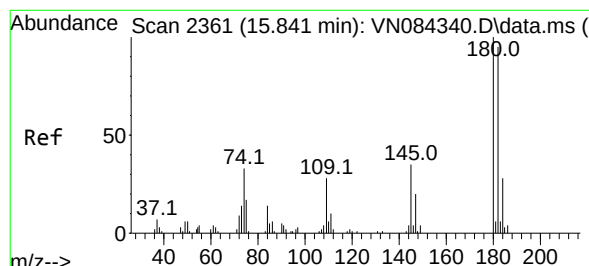
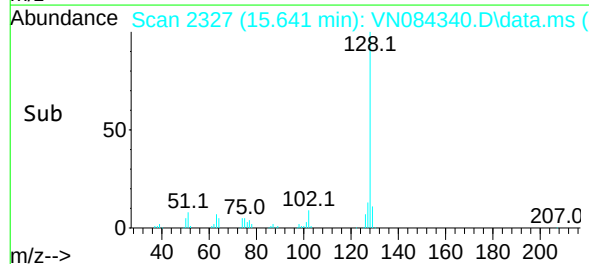
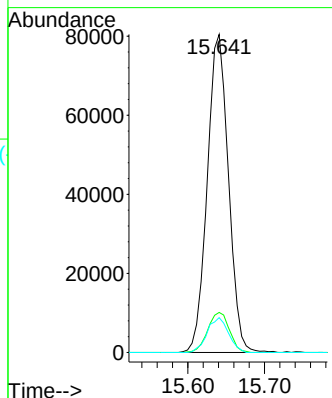
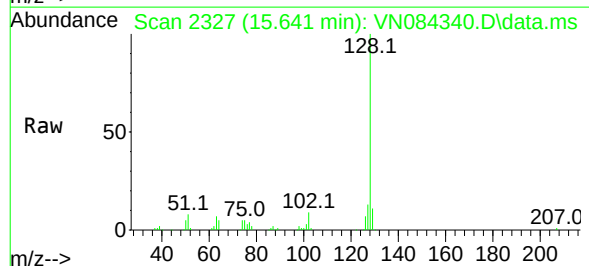
ClientSampleId :

VSTDICCC020

Tgt Ion:	128	Resp:	154471
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.0	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 18.915 ug/l

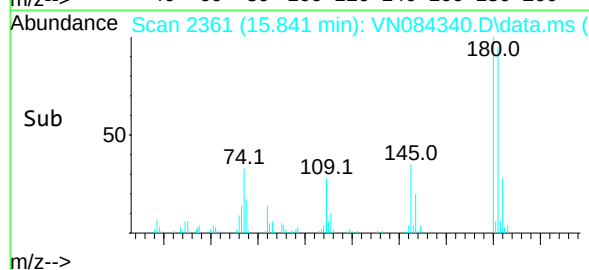
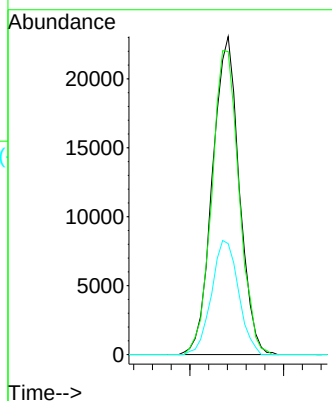
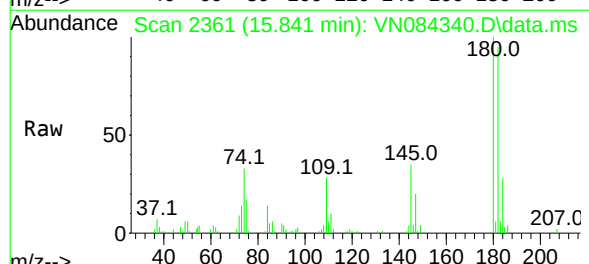
RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN084340.D

Acq: 08 Oct 2024 10:55

Tgt Ion:	180	Resp:	45853
Ion	Ratio	Lower	Upper
180	100		
182	97.2	0.0	194.4
145	36.1	0.0	72.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084341.D
 Acq On : 08 Oct 2024 11:19
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:09:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33135	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	182092	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	168912	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80437	30.153	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.500%			
60) 4-Bromofluorobenzene	12.847	95	78531	28.170	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.900%			
63) Toluene-d8	10.565	98	237159	30.307	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.033%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	10592	5.236	ug/l	94
3) Chloromethane	2.359	50	11862	5.153	ug/l	93
4) Vinyl Chloride	2.512	62	11670	5.169	ug/l	90
5) Bromomethane	2.953	94	9027	6.035	ug/l	96
6) Chloroethane	3.118	64	8876	5.997	ug/l	92
7) Trichlorofluoromethane	3.500	101	19359	5.264	ug/l	91
8) Diethyl Ether	3.959	74	6806m	5.034	ug/l	
9) 1,1,2-Trichlorotrifluoro...	4.377	101	10938	5.290	ug/l	70
10) 1,1-Dichloroethene	4.342	96	10884	5.275	ug/l	97
11) Methyl Iodide	4.595	142	13135	4.845	ug/l	98
12) Methyl Acetate	5.030	43	12264	4.748	ug/l	97
13) Acrolein	4.183	56	12398	25.840	ug/l	93
14) Acrylonitrile	5.730	53	28276m	24.367	ug/l	
15) Acetone	4.436	58	7318	22.077	ug/l	94
16) Carbon Disulfide	4.706	76	33723	5.489	ug/l	98
17) Allyl chloride	5.030	41	16359	4.891	ug/l	97
18) Methylene Chloride	5.277	84	12168m	5.235	ug/l	
19) trans-1,2-Dichloroethene	5.783	96	11347	5.197	ug/l	86
20) Diisopropyl ether	6.677	45	34552	4.805	ug/l #	93
21) 1,1-Dichloroethane	6.571	63	21583	5.231	ug/l	93
22) cis-1,2-Dichloroethene	7.483	96	12611	4.963	ug/l	96
23) tert-Butyl Alcohol	5.524	59	11110	24.960	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	33238	4.821	ug/l #	91
25) Chloroform	7.971	83	21052	5.038	ug/l	92
26) Cyclohexane	8.259	56	16244	4.707	ug/l #	96
29) 1,1-Dichloropropene	8.371	75	14635	4.896	ug/l	99
30) 2-Butanone	7.488	43	36686	23.051	ug/l #	98
31) 2,2-Dichloropropane	7.494	77	16984	4.835	ug/l #	78
32) 1,1,1-Trichloroethane	8.159	97	18852m	4.934	ug/l	
33) Carbon Tetrachloride	8.365	117	16613	5.019	ug/l	91
34) Benzene	8.600	78	47206	5.045	ug/l #	80
35) Methacrylonitrile	7.771	41	7020m	4.135	ug/l	
36) 1,2-Dichloroethane	8.671	62	15630	5.011	ug/l	100
37) Trichloroethene	9.353	130	10715	4.973	ug/l	96
38) Methylcyclohexane	9.600	83	14911	4.541	ug/l	92
39) 1,2-Dichloropropane	9.618	63	11390	4.992	ug/l	90
40) Dibromomethane	9.706	93	8154	5.113	ug/l	98
41) Bromodichloromethane	9.882	83	16959	5.009	ug/l	93
42) Vinyl Acetate	6.606	43	127008	22.946	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084341.D
 Acq On : 08 Oct 2024 11:19
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:09:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Oct 09 02:04:33 2024

Response via : Initial Calibration

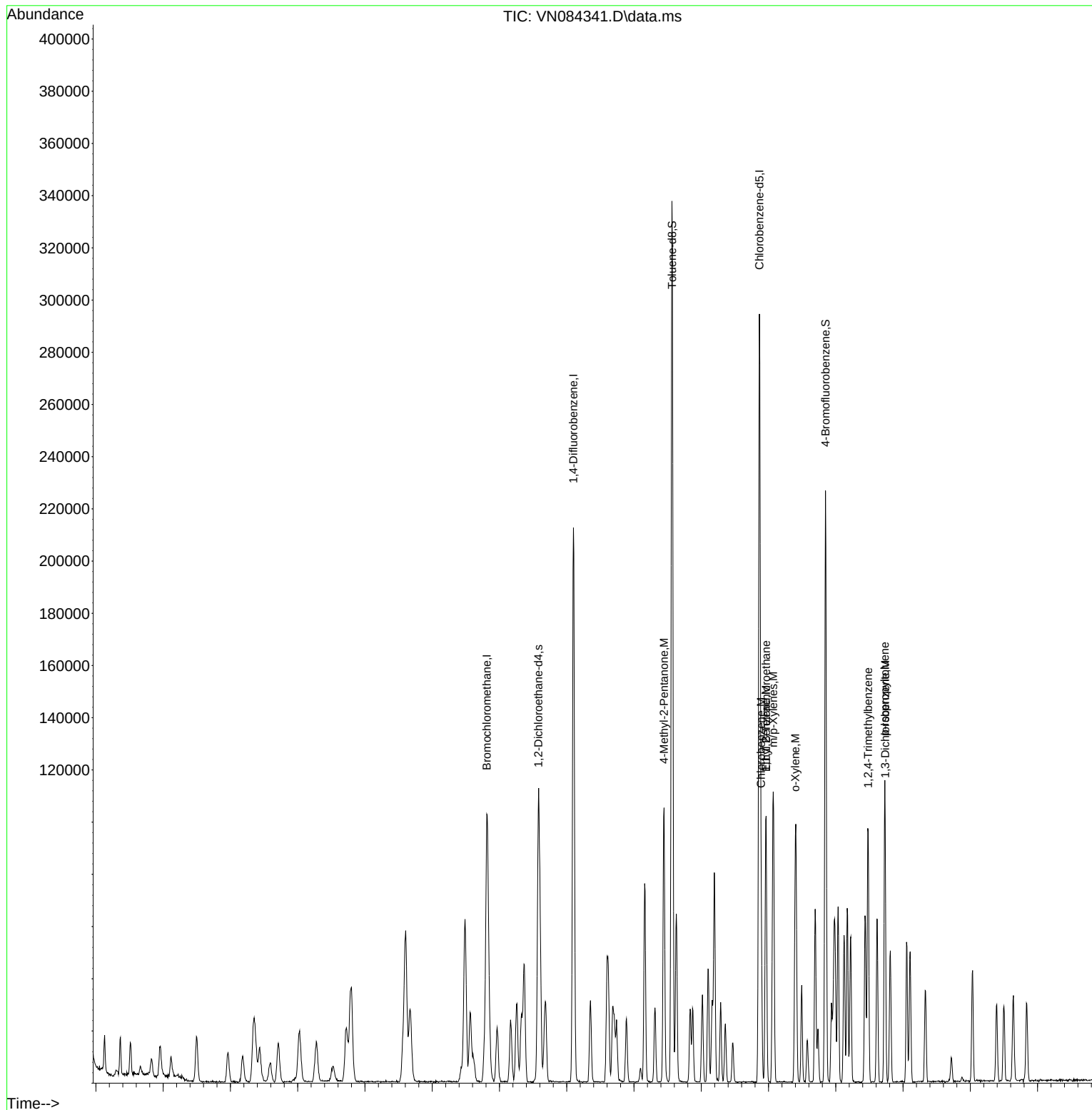
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	15009m	4.782	ug/l	
44) Isopropyl Acetate	8.694	43	23240	4.524	ug/l	100
45) 1,4-Dioxane	9.694	88	4149	89.589	ug/l	97
46) Methyl methacrylate	9.682	41	11210	4.516	ug/l	88
47) n-amyl Acetate	12.494	43	19132	4.187	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	17119	4.893	ug/l	92
49) cis-1,3-Dichloropropene	10.312	75	16720	4.560	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	10856	5.065	ug/l	92
51) Ethyl methacrylate	10.871	69	14547	4.109	ug/l	90
52) 1,3-Dichloropropane	11.165	76	18781	5.011	ug/l	98
53) Dibromochloromethane	11.353	129	12356	4.880	ug/l	99
54) 1,2-Dibromoethane	11.471	107	10689	4.844	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	33972	21.155	ug/l	97
56) Bromoform	12.576	173	7936	4.725	ug/l #	92
58) 4-Methyl-2-Pentanone	10.447	43	72827	23.145	ug/l	97
59) 2-Hexanone	11.194	43	51606	22.071	ug/l	97
61) Tetrachloroethene	11.100	164	10061	5.266	ug/l	93
62) Toluene	10.629	91	49743	5.030	ug/l	97
64) Chlorobenzene	11.888	112	31991	5.199	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	10606	4.961	ug/l	98
66) Ethyl Benzene	11.965	91	48285	4.494	ug/l	99
67) m/p-Xylenes	12.070	106	36802	9.030	ug/l	99
68) o-Xylene	12.400	106	18036	4.591	ug/l	94
69) Styrene	12.412	104	29815	4.421	ug/l	97
70) Isopropylbenzene	12.694	105	44677	4.455	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	15289	4.928	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	12720m	4.794	ug/l	
73) Bromobenzene	12.982	156	11720	4.826	ug/l	97
74) n-propylbenzene	13.035	91	52955	4.431	ug/l	98
75) 2-Chlorotoluene	13.123	91	34704	4.673	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	37234	4.410	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	4820	4.245	ug/l	83
78) 4-Chlorotoluene	13.217	91	35132	4.653	ug/l	97
79) tert-butylbenzene	13.435	119	31579	4.384	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	37927	4.427	ug/l	95
81) sec-Butylbenzene	13.612	105	42859	4.321	ug/l	99
82) p-Isopropyltoluene	13.729	119	36191	4.335	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	21112	4.675	ug/l	95
84) 1,4-Dichlorobenzene	13.812	146	22118	4.932	ug/l	97
85) n-Butylbenzene	14.053	91	29988	4.148	ug/l	98
86) Hexachloroethane	14.335	117	7779	4.837	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	21047	4.820	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	2761	4.352	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	10483	4.618	ug/l	99
90) Hexachlorobutadiene	15.500	225	6201	5.904	ug/l	98
91) Naphthalene	15.641	128	30757	3.998	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	10483	4.618	ug/l	99

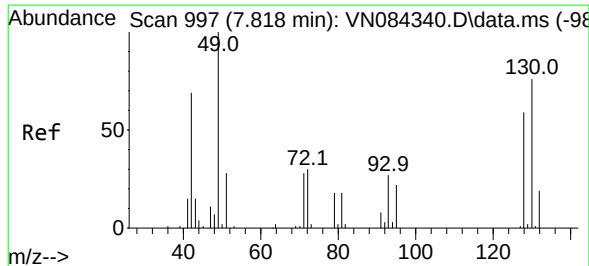
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations

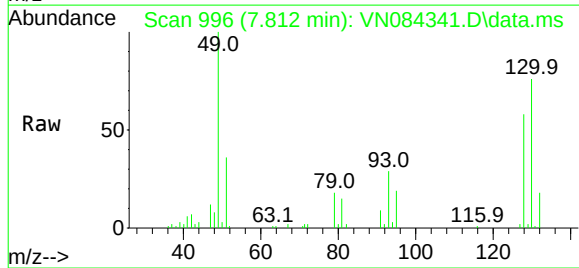
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN084341.D
Acq: 08 Oct 2024 11:19

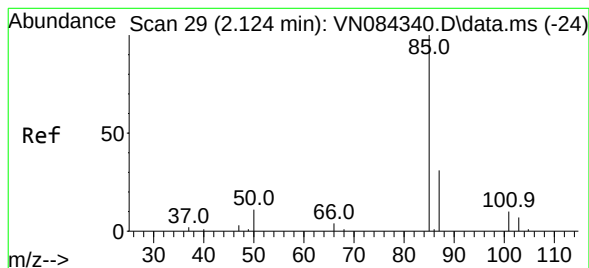
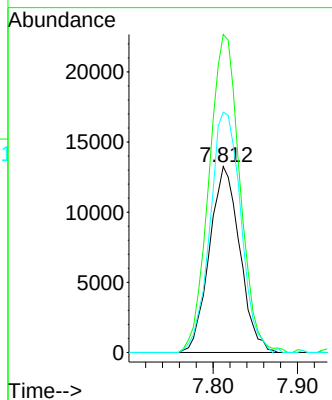
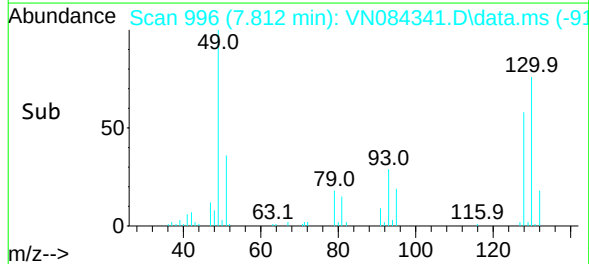
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 128 Resp: 33135
Ion Ratio Lower Upper
128 100
49 173.7 0.0 430.0
130 131.7 0.0 329.8

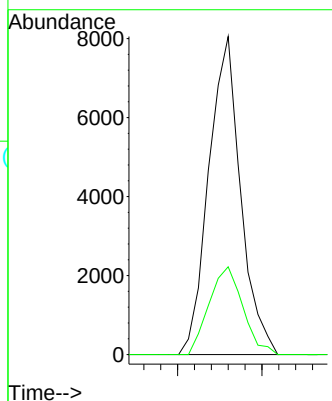
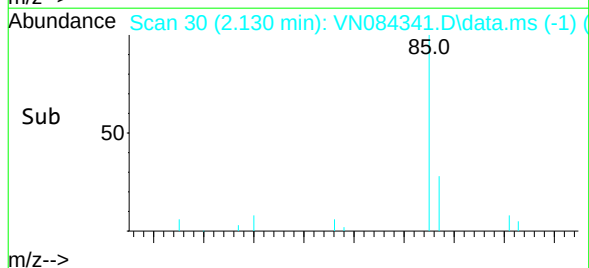
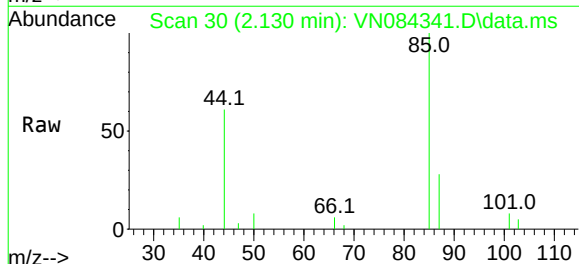
Manual Integrations
APPROVED

Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024

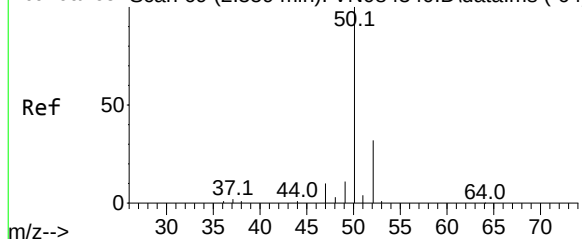


#2
Dichlorodifluoromethane
Concen: 5.236 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN084341.D
Acq: 08 Oct 2024 11:19

Tgt Ion: 85 Resp: 10592
Ion Ratio Lower Upper
85 100
87 27.6 15.4 46.4



Abundance Scan 69 (2.359 min): VN084340.D\data.ms (-64)



#3

Chloromethane

Concen: 5.153 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 50 Resp: 11862

Ion Ratio Lower Upper

50 100

52 28.5 25.8 38.6

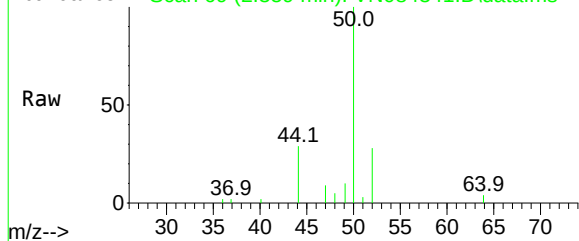
Manual Integrations

APPROVED

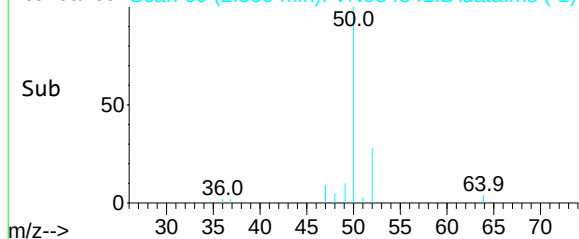
Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024

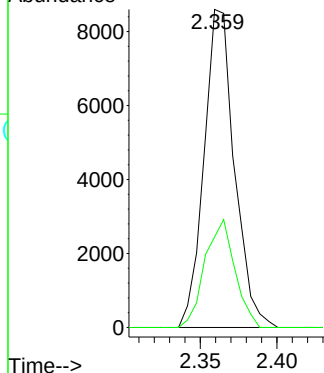
Abundance Scan 69 (2.359 min): VN084341.D\data.ms



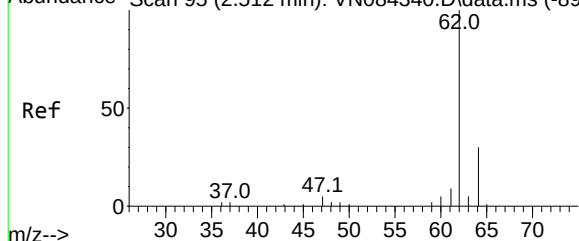
Abundance Scan 69 (2.359 min): VN084341.D\data.ms (-1)



Abundance



Abundance Scan 95 (2.512 min): VN084340.D\data.ms (-89)



#4

Vinyl Chloride

Concen: 5.169 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

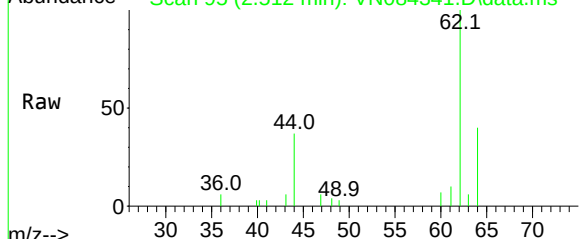
Tgt Ion: 62 Resp: 11670

Ion Ratio Lower Upper

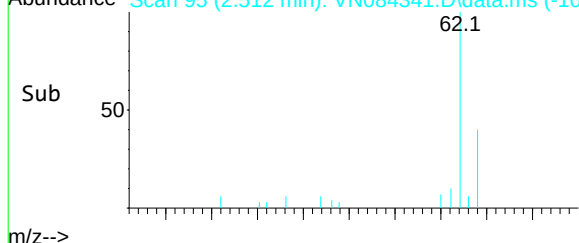
62 100

64 35.9 24.3 36.5

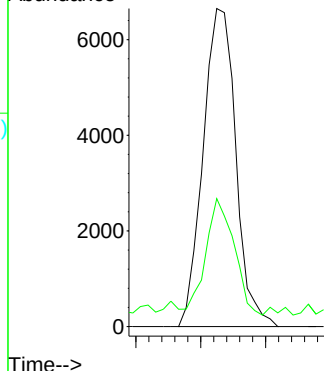
Abundance Scan 95 (2.512 min): VN084341.D\data.ms

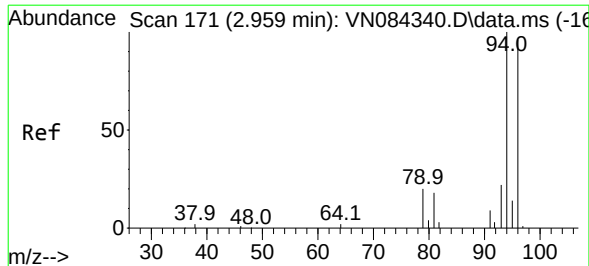


Abundance Scan 95 (2.512 min): VN084341.D\data.ms (-10)



Abundance





#5

Bromomethane

Concen: 6.035 ug/l

RT: 2.953 min Scan# 171

Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 94 Resp: 9027

Ion Ratio Lower Upper

94 100

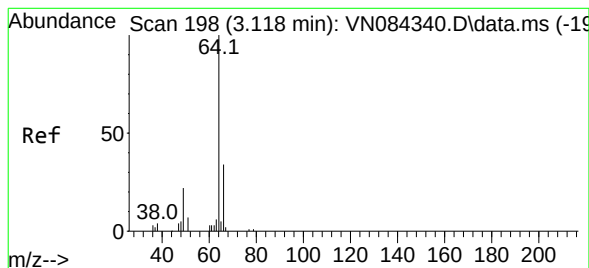
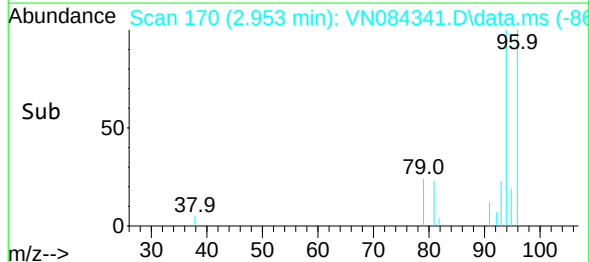
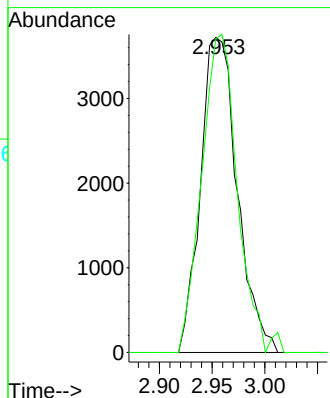
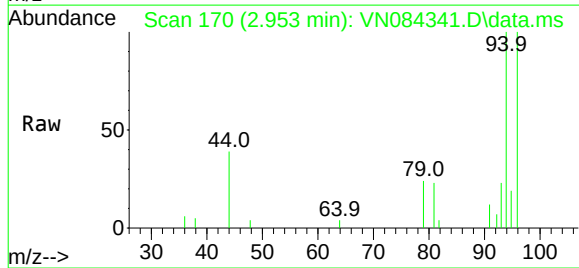
96 99.5 76.7 115.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#6

Chloroethane

Concen: 5.997 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN084341.D

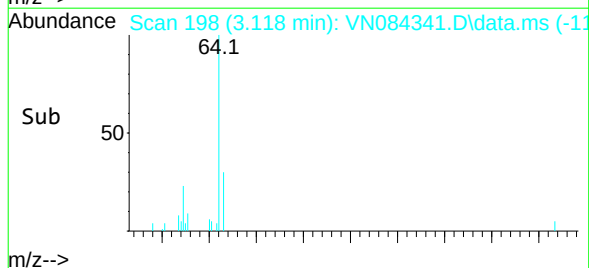
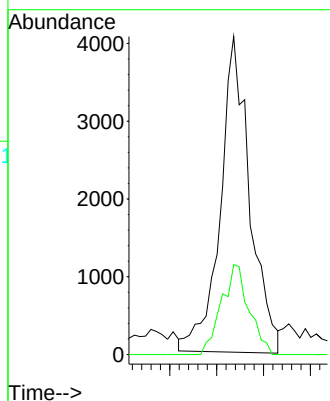
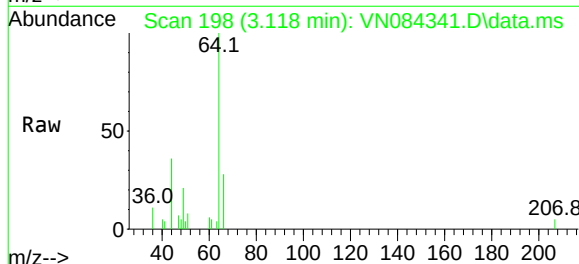
Acq: 08 Oct 2024 11:19

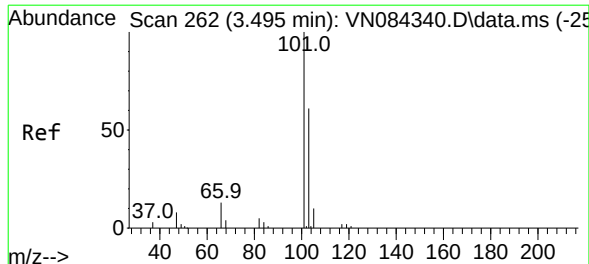
Tgt Ion: 64 Resp: 8876

Ion Ratio Lower Upper

64 100

66 29.7 27.7 41.5





#7

Trichlorofluoromethane

Concen: 5.264 ug/l

RT: 3.500 min Scan# 26

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:101 Resp: 19359

Ion Ratio Lower Upper

101 100

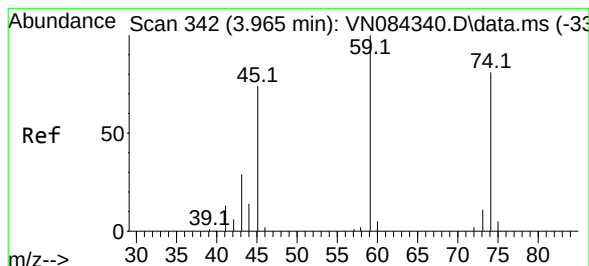
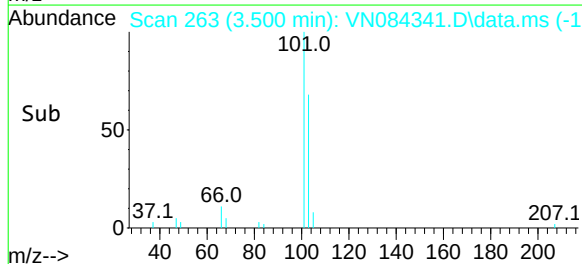
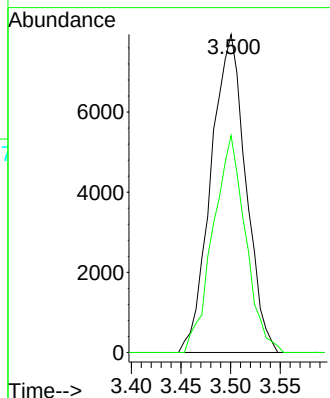
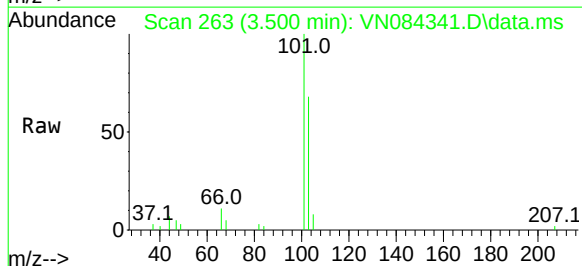
103 68.2 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#8

Diethyl Ether

Concen: 5.034 ug/l m

RT: 3.959 min Scan# 341

Delta R.T. -0.006 min

Lab File: VN084341.D

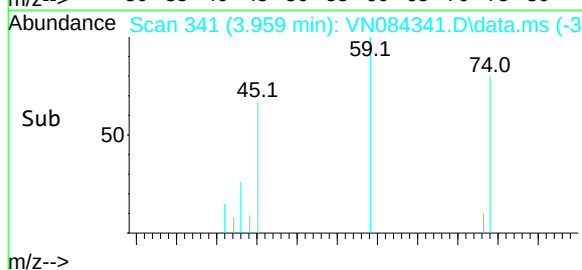
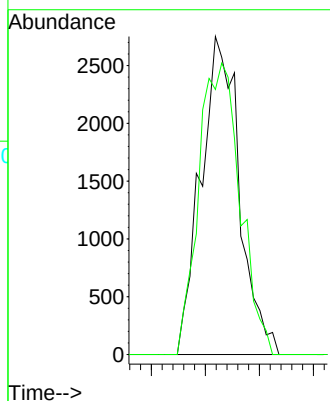
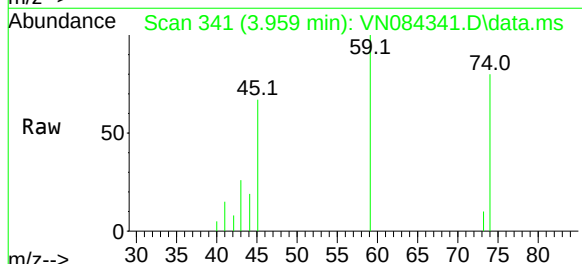
Acq: 08 Oct 2024 11:19

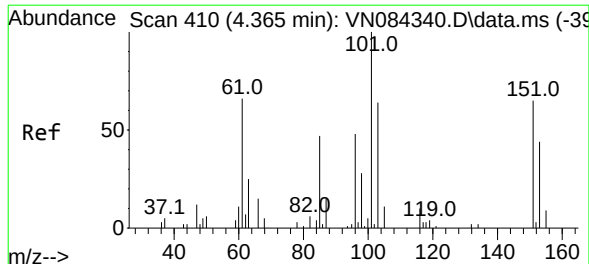
Tgt Ion: 74 Resp: 6806

Ion Ratio Lower Upper

74 100

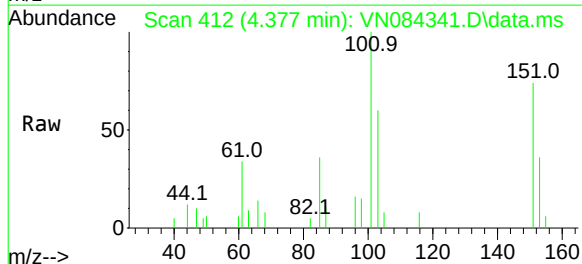
45 46.4 19.2 173.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.290 ug/l
RT: 4.377 min Scan# 410
Delta R.T. 0.012 min
Lab File: VN084341.D
Acq: 08 Oct 2024 11:19

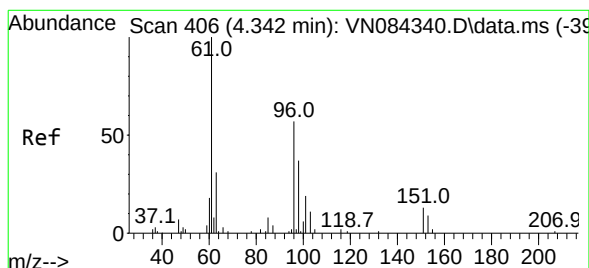
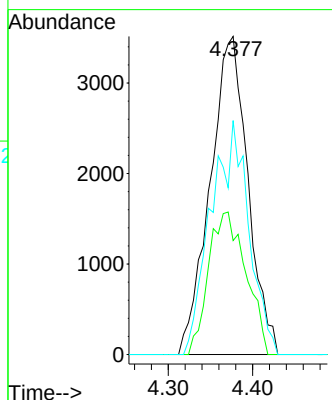
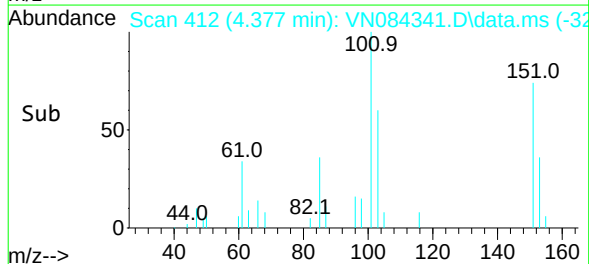
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



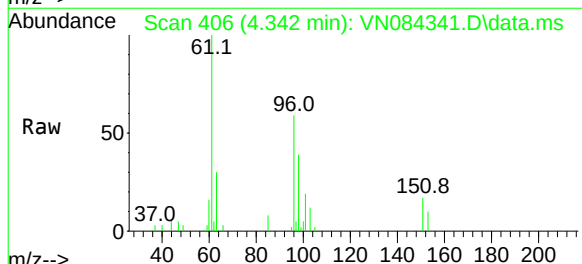
Tgt Ion: 101 Resp: 10938
Ion Ratio Lower Upper
101 100
85 44.3 0.0 93.6
151 35.8 0.0 151.8

Manual Integrations
APPROVED

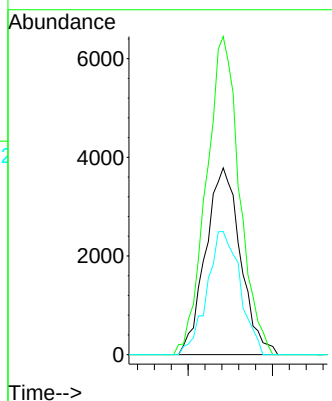
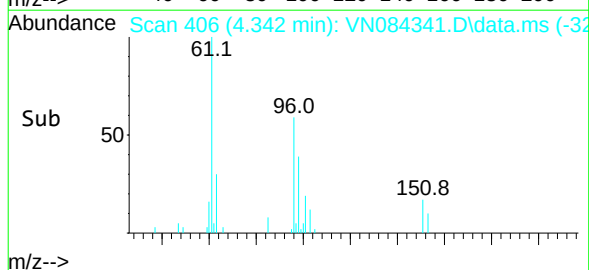
Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024

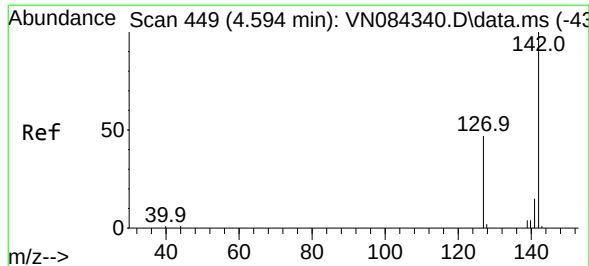


#10
1,1-Dichloroethene
Concen: 5.275 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN084341.D
Acq: 08 Oct 2024 11:19



Tgt Ion: 96 Resp: 10884
Ion Ratio Lower Upper
96 100
61 170.4 140.8 211.2
98 66.0 52.2 78.2





#11

Methyl Iodide

Concen: 4.845 ug/l

RT: 4.595 min Scan# 44

Delta R.T. 0.000 min

Lab File: VN084341.D

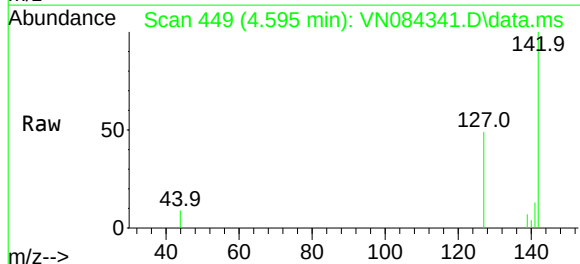
Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

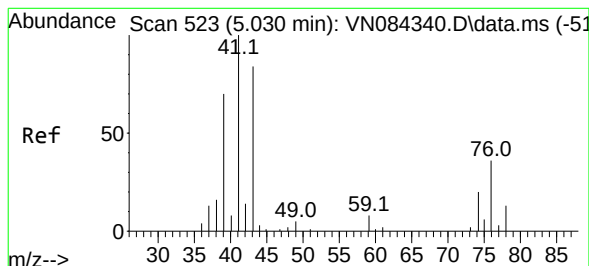
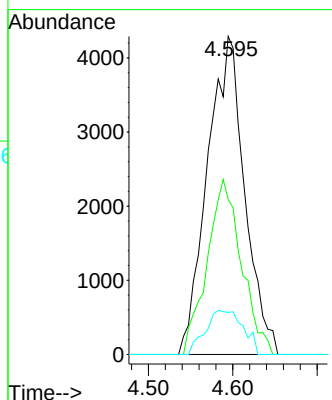
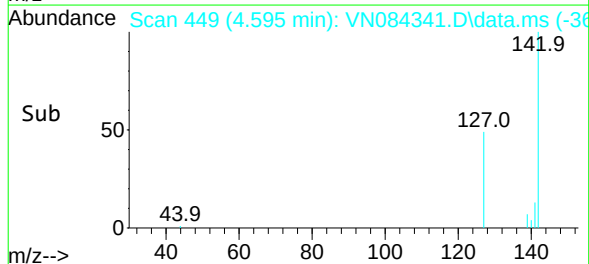
VSTDICC005



Tgt Ion:	142	Resp:	13135
Ion	Ratio	Lower	Upper
142	100		
127	48.8	23.8	71.4
141	13.2	7.4	22.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#12

Methyl Acetate

Concen: 4.748 ug/l

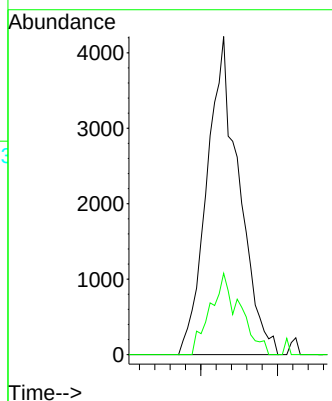
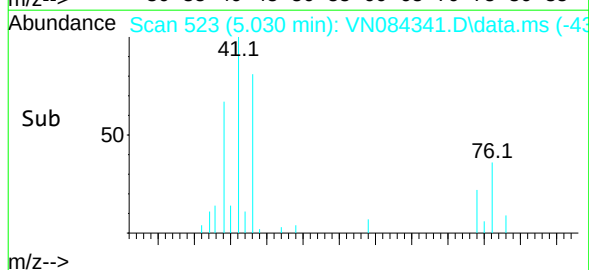
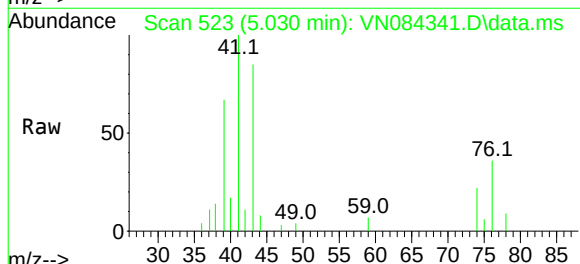
RT: 5.030 min Scan# 523

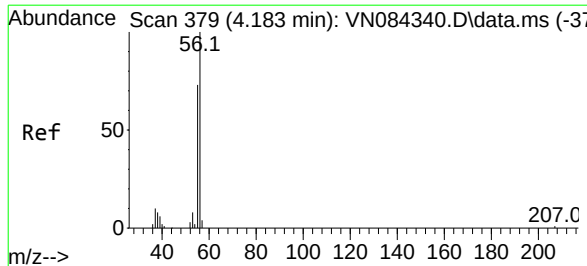
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	43	Resp:	12264
Ion	Ratio	Lower	Upper
43	100		
74	25.6	19.4	29.2





#13

Acrolein

Concen: 25.840 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.000 min

Lab File: VN084341.D

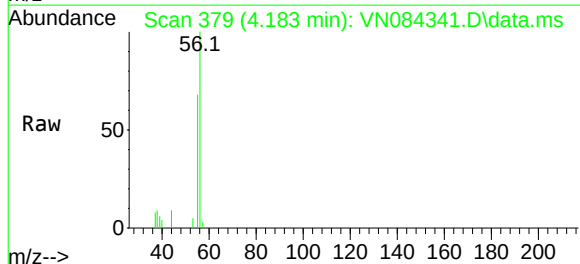
Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005



Tgt Ion: 56 Resp: 12398

Ion Ratio Lower Upper

56 100

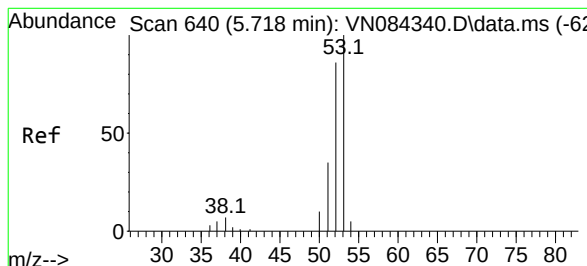
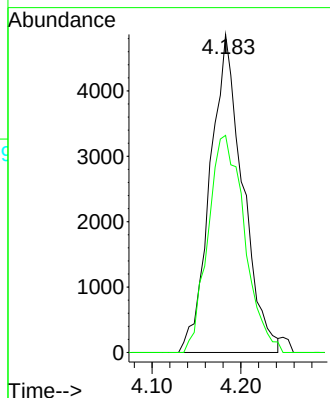
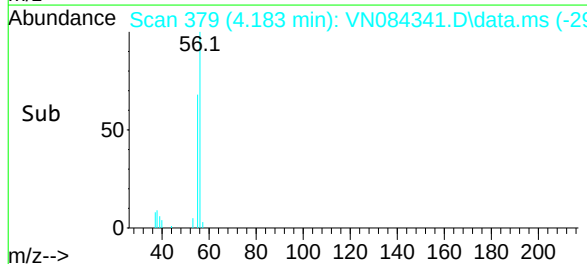
55 76.4 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#14

Acrylonitrile

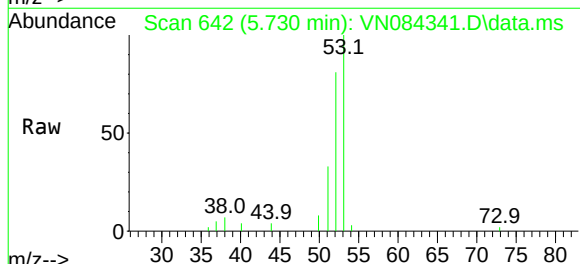
Concen: 24.367 ug/l m

RT: 5.730 min Scan# 642

Delta R.T. 0.012 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19



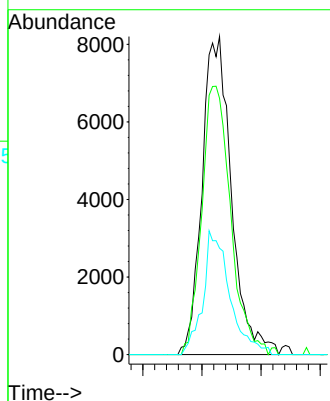
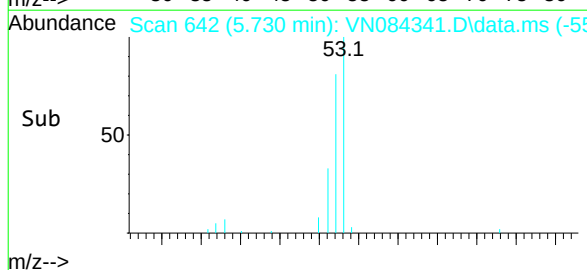
Tgt Ion: 53 Resp: 28276

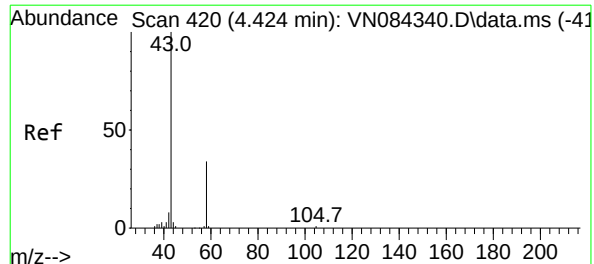
Ion Ratio Lower Upper

53 100

52 83.2 40.4 121.2

51 35.2 17.8 53.4





#15

Acetone

Concen: 22.077 ug/l

RT: 4.436 min Scan# 42

Delta R.T. 0.012 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 58 Resp: 7318

Ion Ratio Lower Upper

58 100

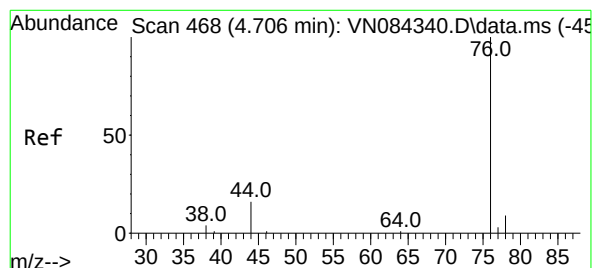
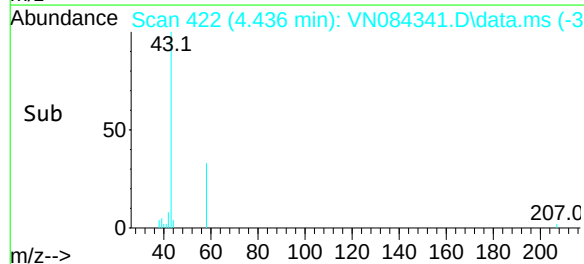
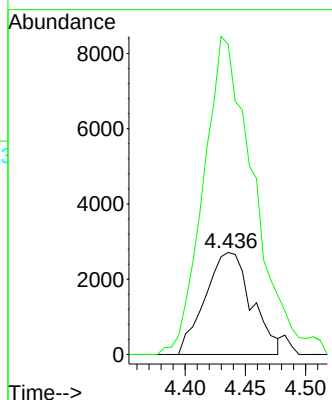
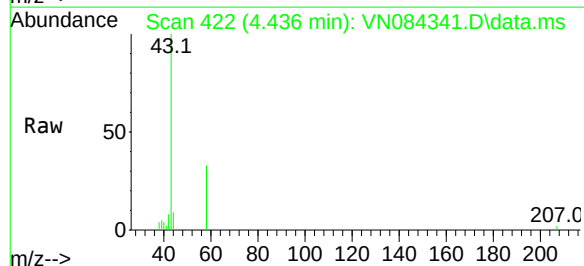
43 285.9 237.5 356.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#16

Carbon Disulfide

Concen: 5.489 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN084341.D

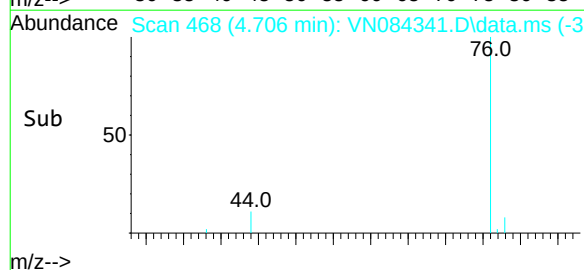
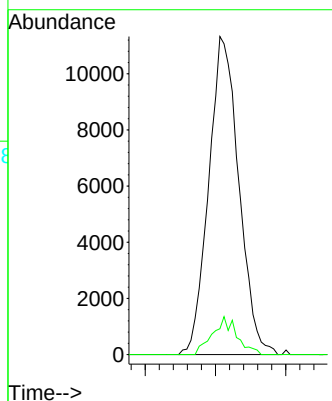
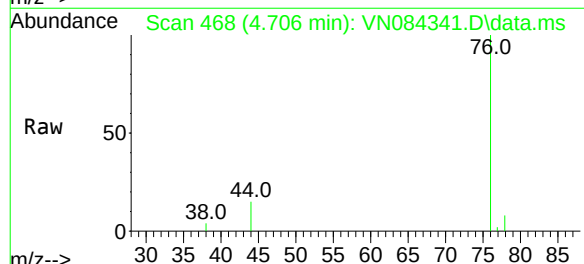
Acq: 08 Oct 2024 11:19

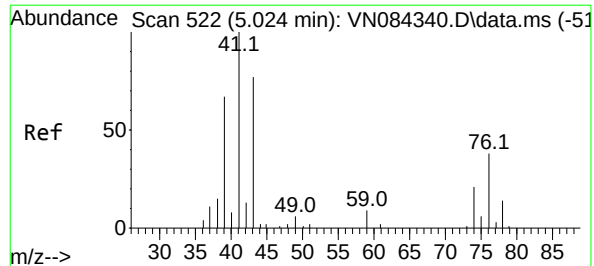
Tgt Ion: 76 Resp: 33723

Ion Ratio Lower Upper

76 100

78 8.1 7.1 10.7





#17

Allyl chloride

Concen: 4.891 ug/l

RT: 5.030 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

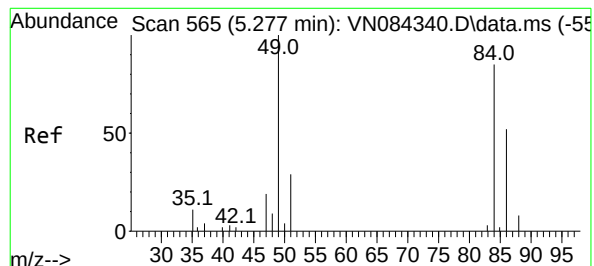
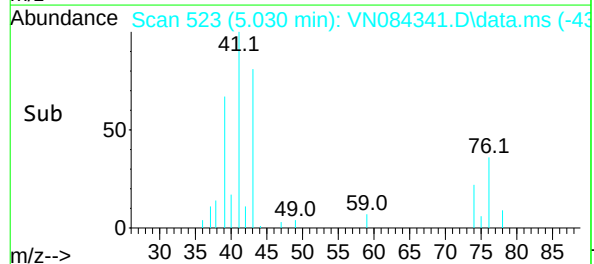
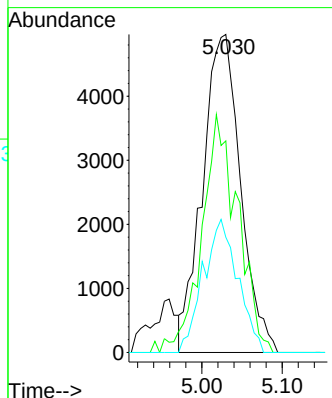
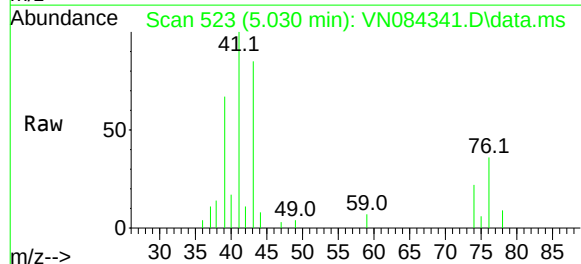
ClientSampleId :

VSTDIC005

Tgt	Ion	41	Resp:	16359
Ion	Ratio	Lower	Upper	
41	100			
39	66.5	31.4	94.3	
76	36.2	17.8	53.5	

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#18

Methylene Chloride

Concen: 5.235 ug/l m

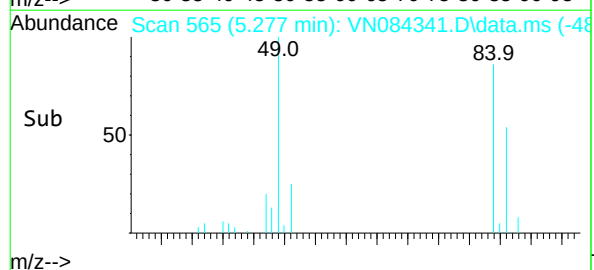
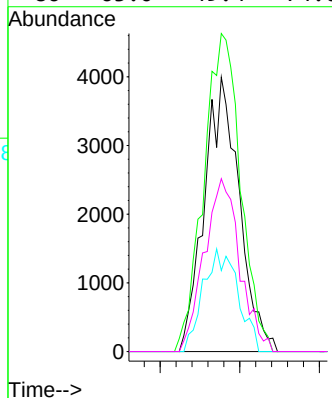
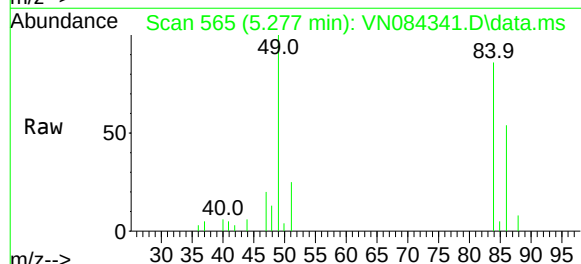
RT: 5.277 min Scan# 565

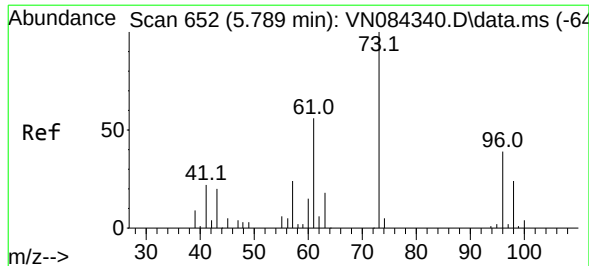
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt	Ion	84	Resp:	12168
Ion	Ratio	Lower	Upper	
84	100			
49	115.9	94.6	142.0	
51	29.5	27.3	40.9	
86	63.0	49.4	74.0	





#19

trans-1,2-Dichloroethene

Concen: 5.197 ug/l

RT: 5.783 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 11347

Ion Ratio Lower Upper

96 100

61 121.3 115.8 173.6

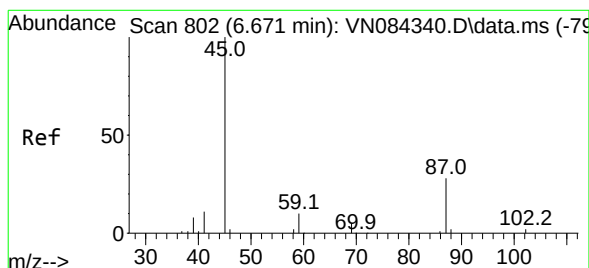
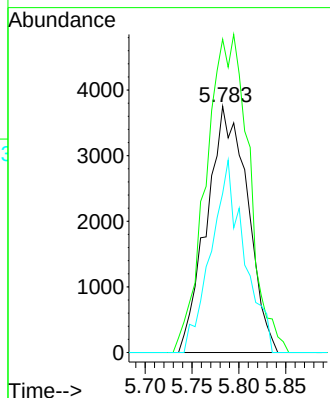
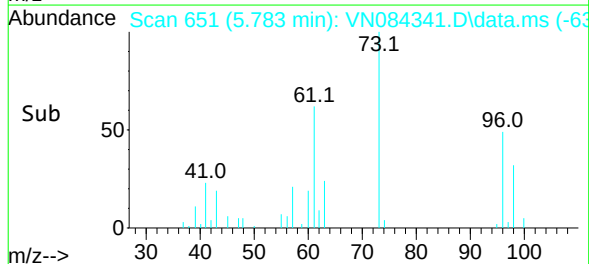
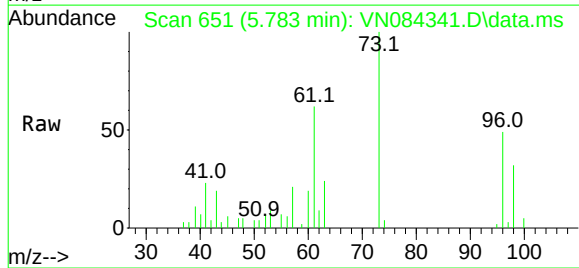
98 64.6 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#20

Diisopropyl ether

Concen: 4.805 ug/l

RT: 6.677 min Scan# 803

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion: 45 Resp: 34552

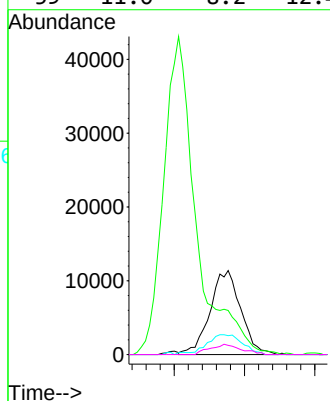
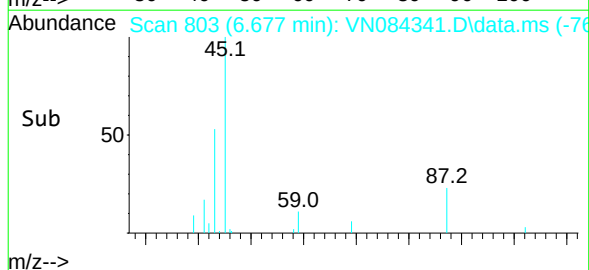
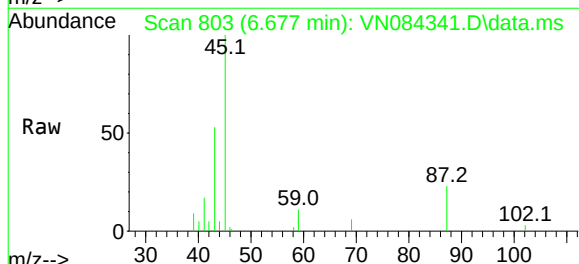
Ion Ratio Lower Upper

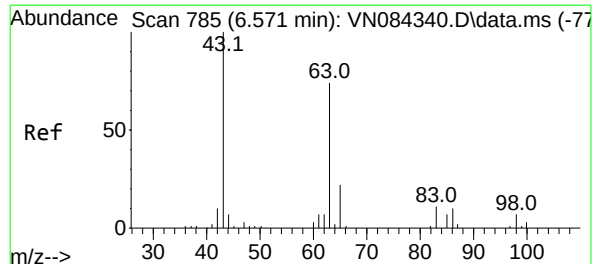
45 100

43 50.6 43.7 65.5

87 22.5 23.1 34.7#

59 11.0 8.2 12.4





#21

1,1-Dichloroethane

Concen: 5.231 ug/l

RT: 6.571 min Scan# 78

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

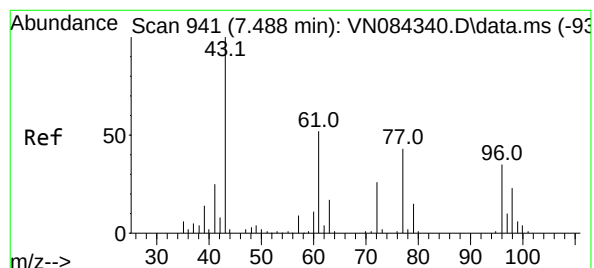
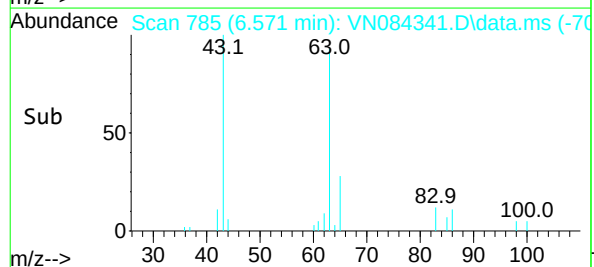
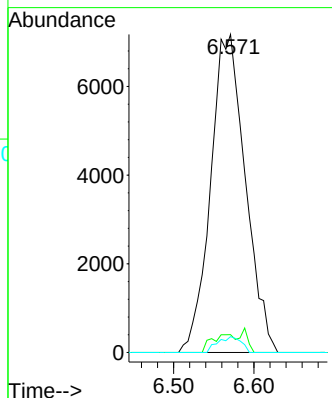
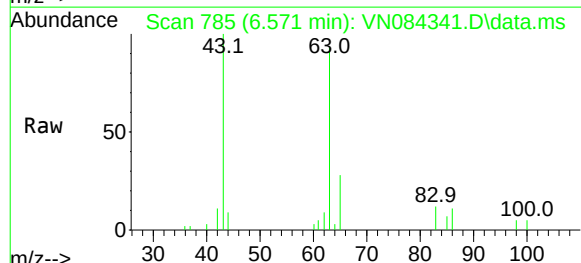
VSTDICC005

Tgt	Ion:	63	Resp:	21583
Ion	Ratio	Lower	Upper	
63	100			
98	5.6	4.5	13.4	
100	5.0	2.1	6.3	

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#22

cis-1,2-Dichloroethene

Concen: 4.963 ug/l

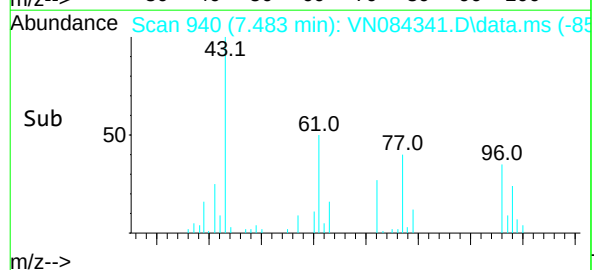
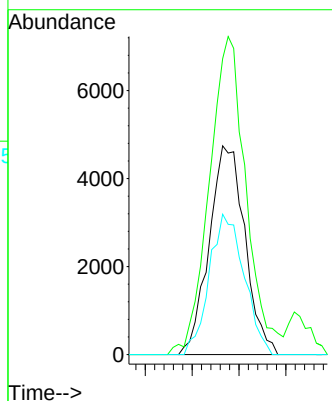
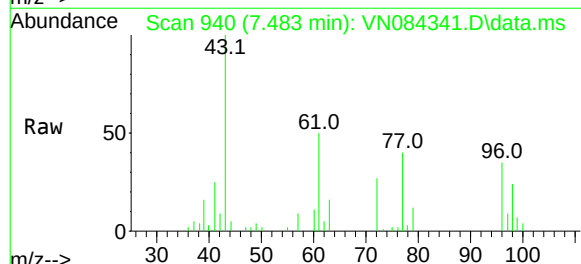
RT: 7.483 min Scan# 940

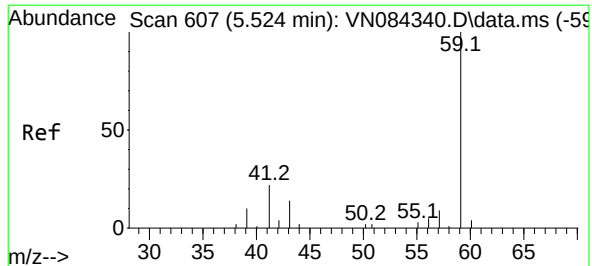
Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt	Ion:	96	Resp:	12611
Ion	Ratio	Lower	Upper	
96	100			
61	154.6	118.0	177.0	
98	65.5	51.8	77.8	





#23

tert-Butyl Alcohol

Concen: 24.960 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 59 Resp: 11110

Ion Ratio Lower Upper

59 100

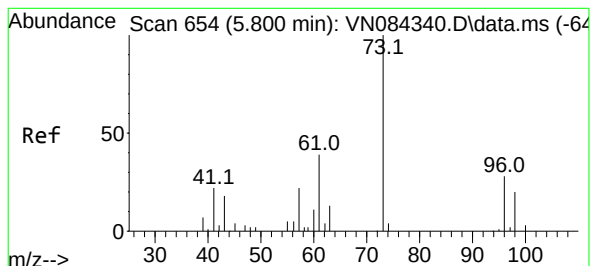
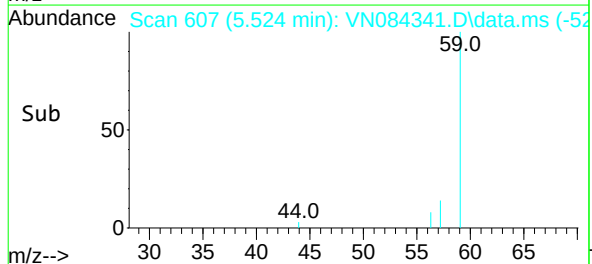
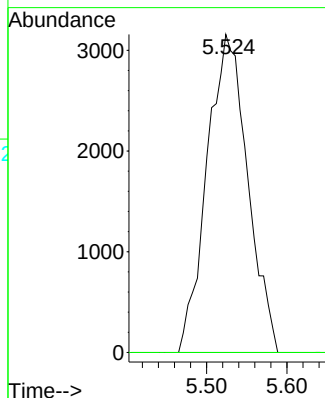
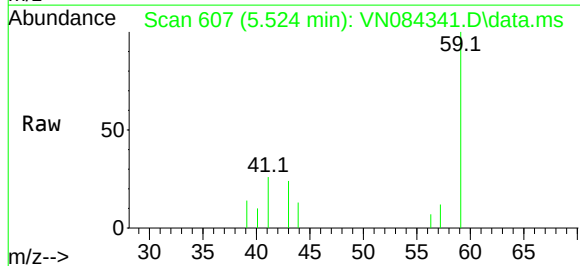
52 211.8 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#24

Methyl tert-Butyl Ether

Concen: 4.821 ug/l

RT: 5.800 min Scan# 654

Delta R.T. 0.000 min

Lab File: VN084341.D

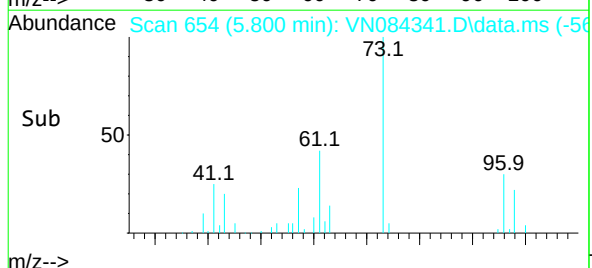
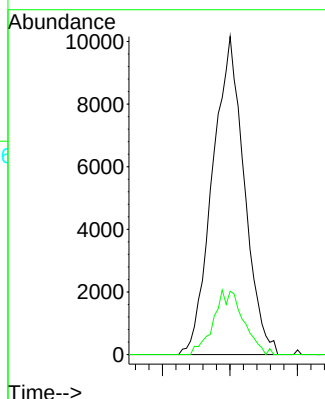
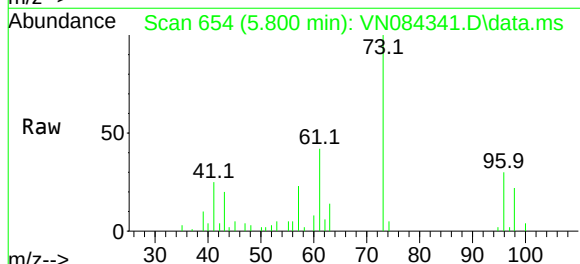
Acq: 08 Oct 2024 11:19

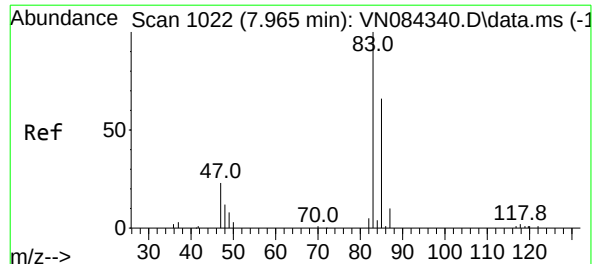
Tgt Ion: 73 Resp: 33238

Ion Ratio Lower Upper

73 100

43 9.8 10.9 16.3#





#25

Chloroform

Concen: 5.038 ug/l

RT: 7.971 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 21052

Ion Ratio Lower Upper

83 100

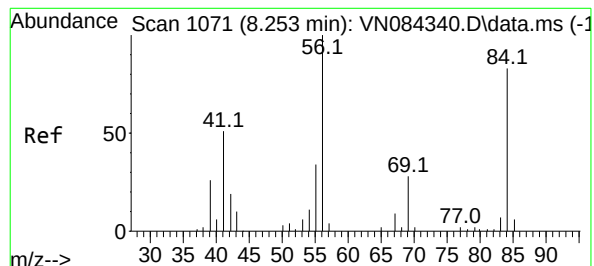
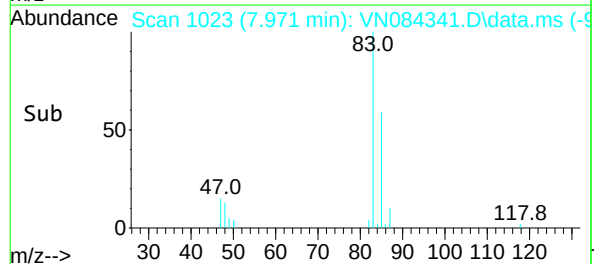
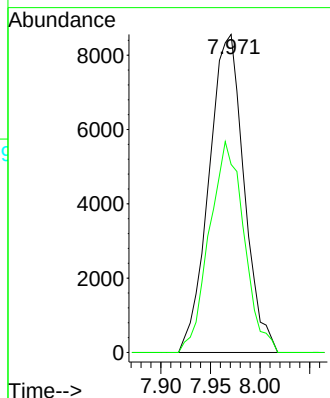
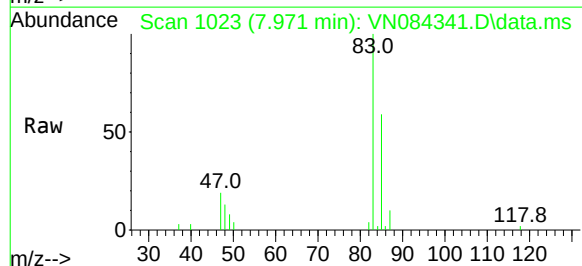
85 59.1 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#26

Cyclohexane

Concen: 4.707 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

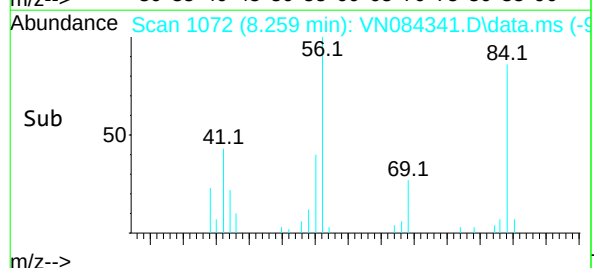
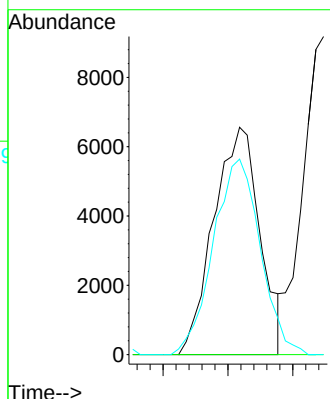
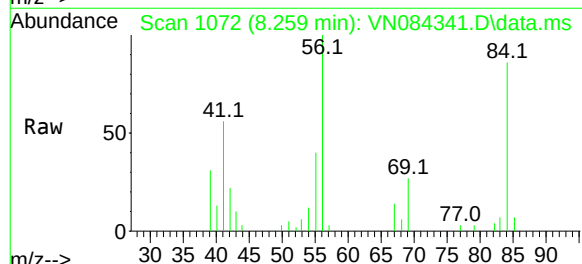
Tgt Ion: 56 Resp: 16244

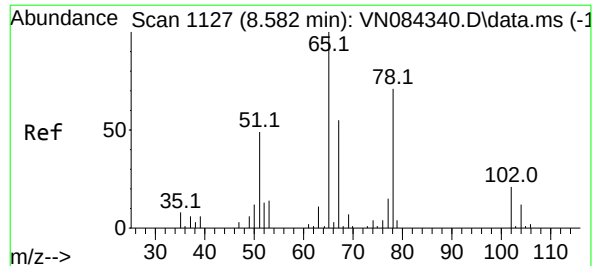
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 87.4 67.0 100.6





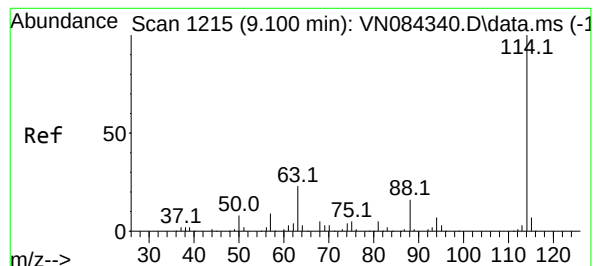
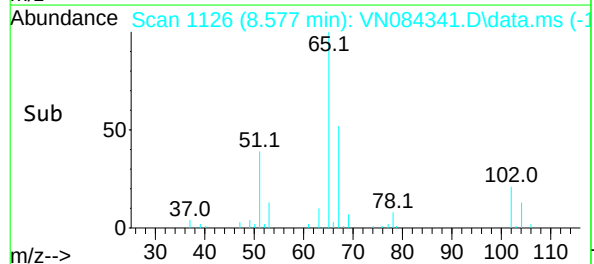
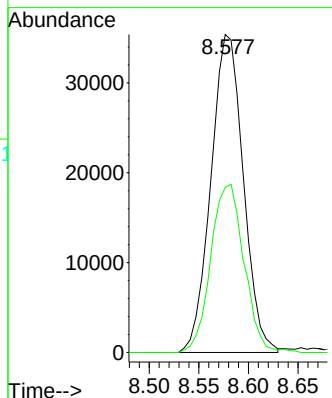
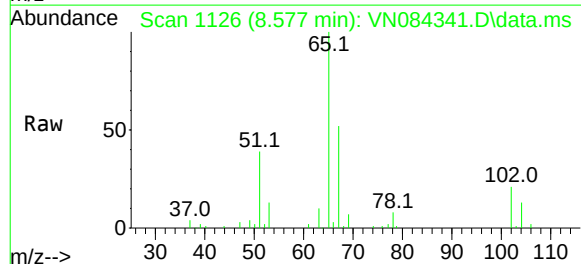
#27
1,2-Dichloroethane-d4
Concen: 30.153 ug/l
RT: 8.577 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN084341.D
Acq: 08 Oct 2024 11:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 80437
Ion Ratio Lower Upper
65 100
67 54.2 41.5 62.3

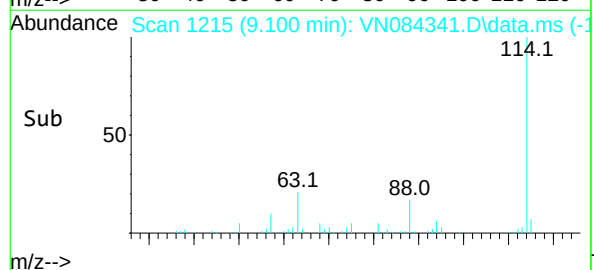
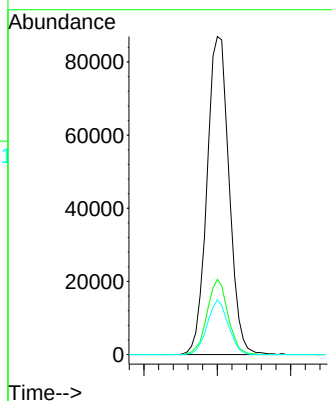
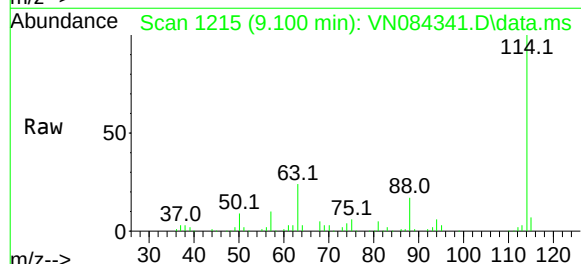
Manual Integrations
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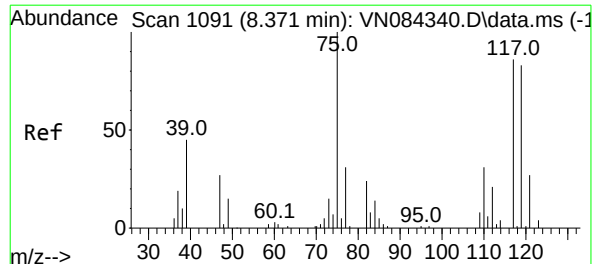
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084341.D
Acq: 08 Oct 2024 11:19

Tgt Ion:114 Resp: 182092
Ion Ratio Lower Upper
114 100
63 22.4 17.4 26.0
88 16.3 13.2 19.8





#29

1,1-Dichloropropene

Concen: 4.896 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 14635

Ion Ratio Lower Upper

75 100

110 33.6 0.0 67.6

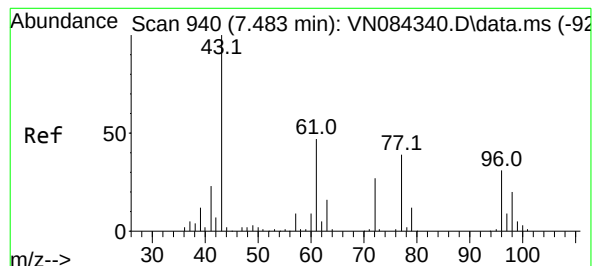
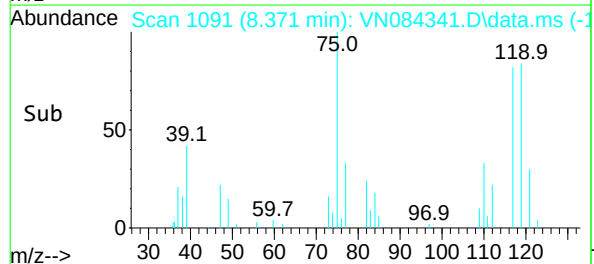
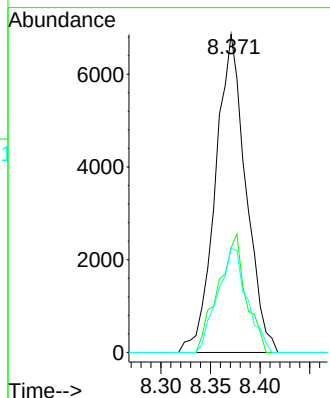
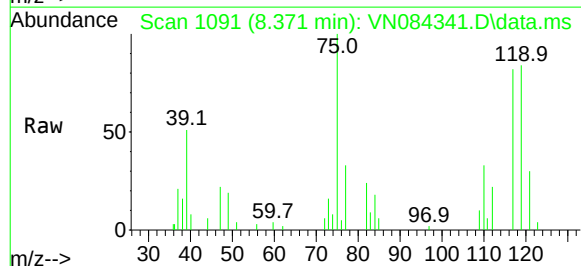
77 31.6 0.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#30

2-Butanone

Concen: 23.051 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

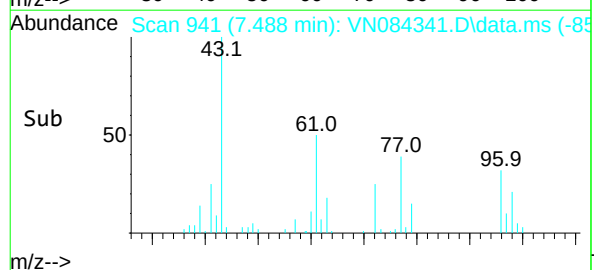
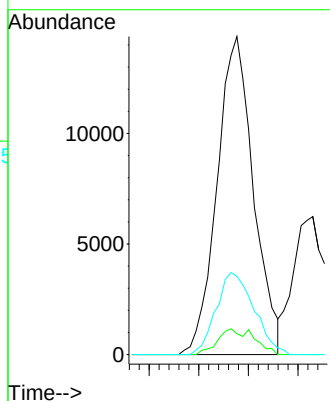
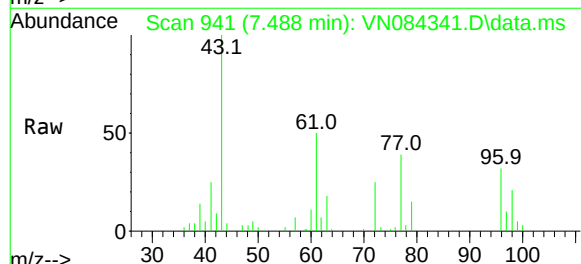
Tgt Ion: 43 Resp: 36686

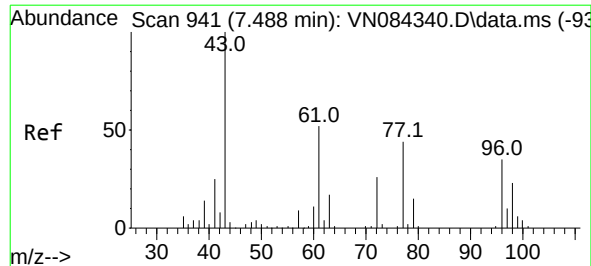
Ion Ratio Lower Upper

43 100

57 5.3 6.6 9.8#

72 26.8 21.3 31.9





#31

2,2-Dichloropropane

Concen: 4.835 ug/l

RT: 7.494 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 77 Resp: 16984

Ion Ratio Lower Upper

77 100

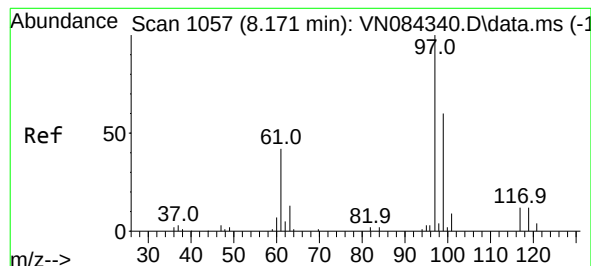
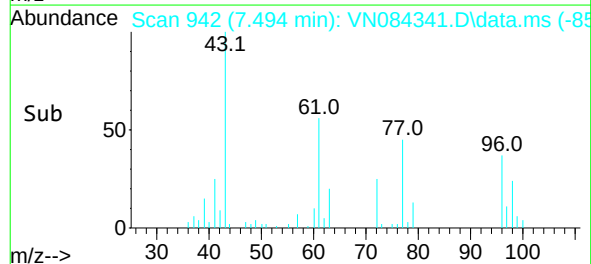
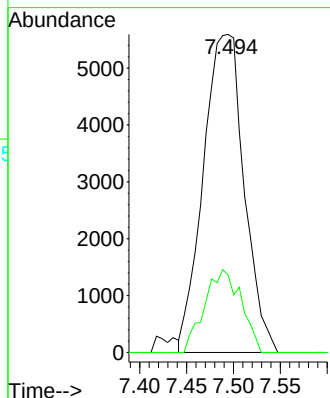
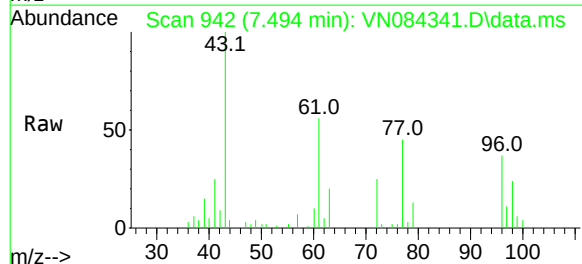
97 23.3 11.5 17.3#

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#32

1,1,1-Trichloroethane

Concen: 4.934 ug/l m

RT: 8.159 min Scan# 1055

Delta R.T. -0.012 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

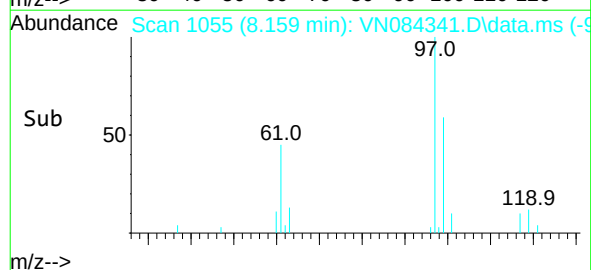
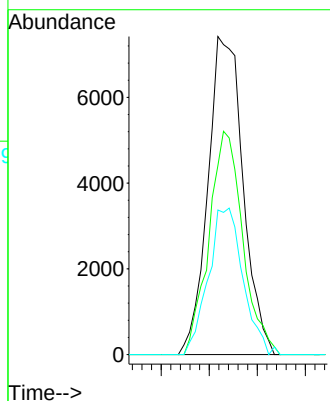
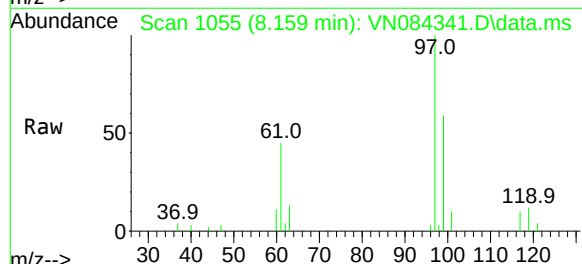
Tgt Ion: 97 Resp: 18852

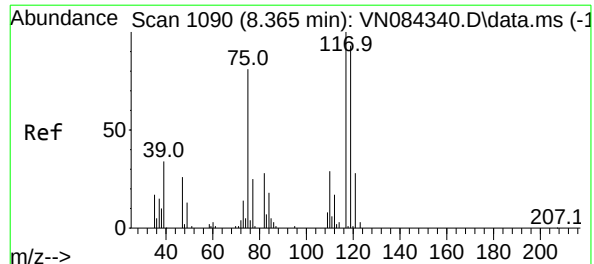
Ion Ratio Lower Upper

97 100

99 67.5 51.2 76.8

61 45.2 34.1 51.1





#33

Carbon Tetrachloride

Concen: 5.019 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 117 Resp: 16613

Ion Ratio Lower Upper

117 100

119 82.1 74.3 111.5

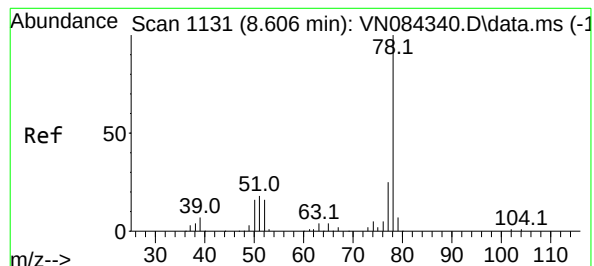
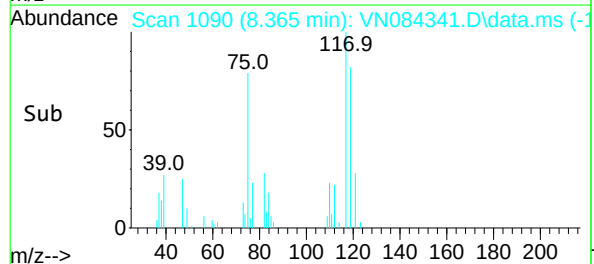
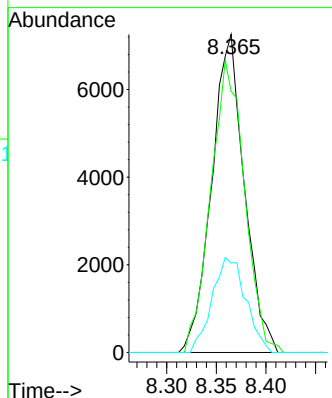
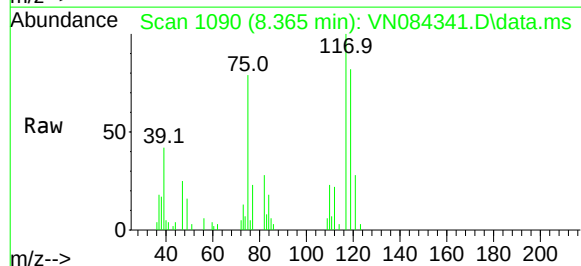
121 28.1 22.4 33.6

Manual Integrations

APPROVED

Reviewed By : John Carlone 10/09/2024

Supervised By : Mahesh Dadoda 10/09/2024



#34

Benzene

Concen: 5.045 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

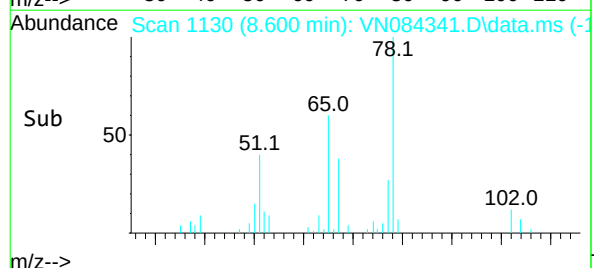
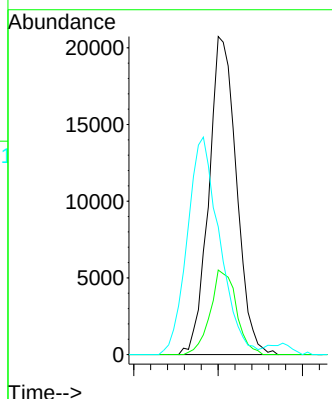
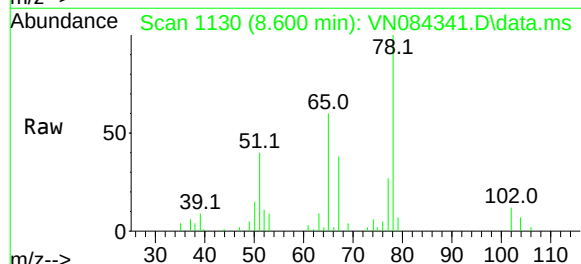
Tgt Ion: 78 Resp: 47206

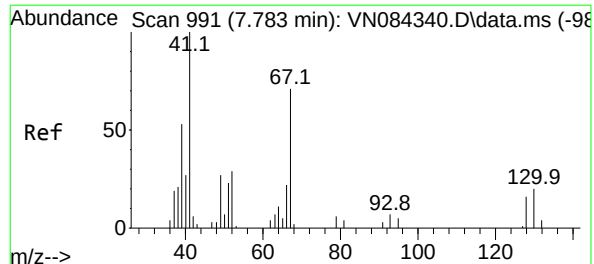
Ion Ratio Lower Upper

78 100

77 26.6 19.6 29.4

51 37.3 15.8 23.6#





#35

Methacrylonitrile

Concen: 4.135 ug/l m

RT: 7.771 min Scan# 98

Delta R.T. -0.012 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 7020

Ion Ratio Lower Upper

41 100

39 48.7 26.4 79.0

67 75.8 35.7 107.1

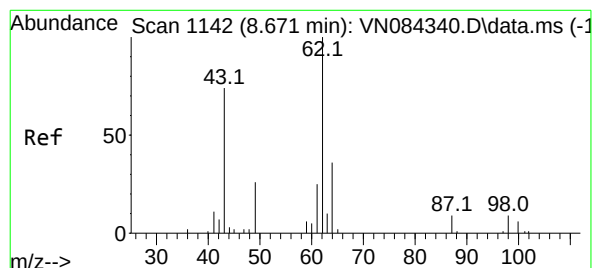
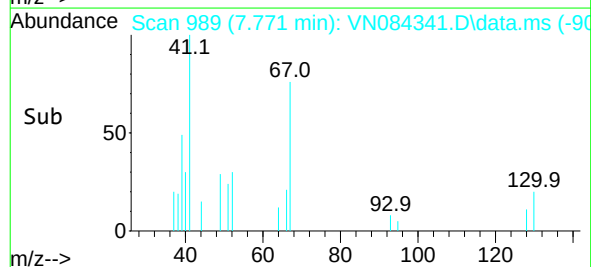
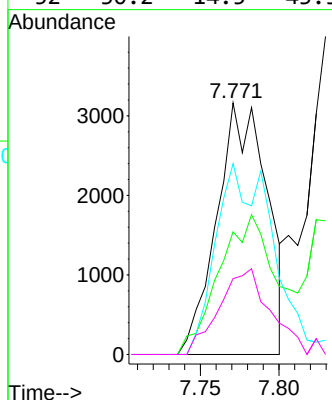
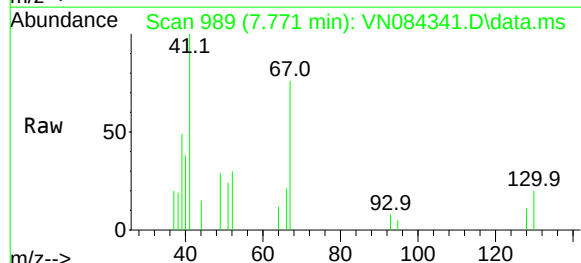
52 30.2 14.5 43.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#36

1,2-Dichloroethane

Concen: 5.011 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN084341.D

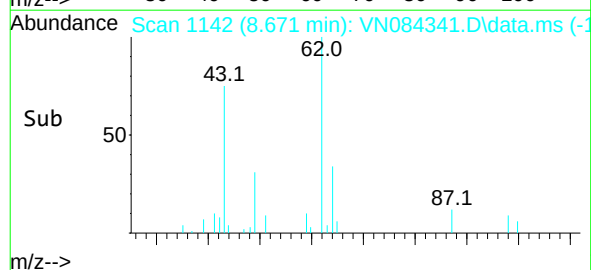
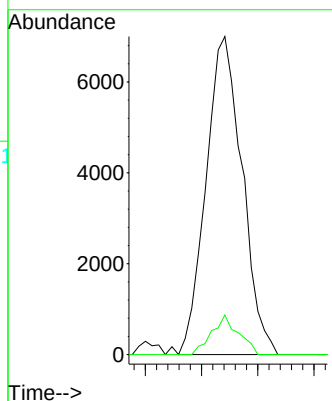
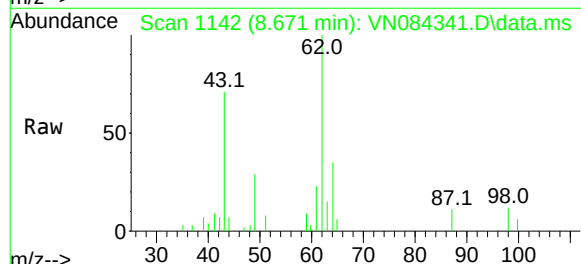
Acq: 08 Oct 2024 11:19

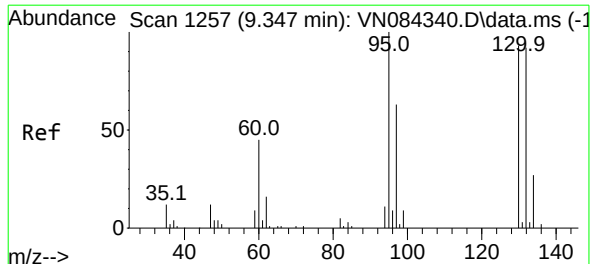
Tgt Ion: 62 Resp: 15630

Ion Ratio Lower Upper

62 100

98 9.2 7.3 10.9





#37

Trichloroethene

Concen: 4.973 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN084341.D

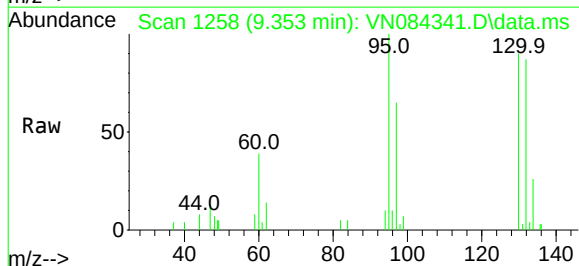
Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005



Tgt Ion:130 Resp: 10715

Ion Ratio Lower Upper

130 100

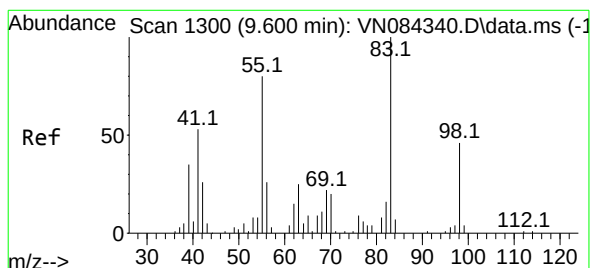
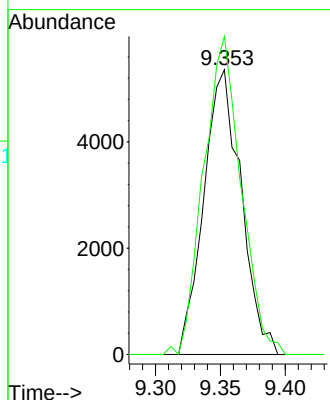
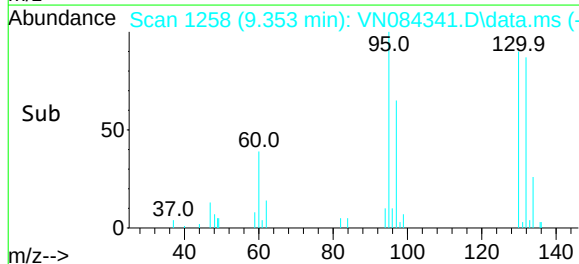
95 111.7 85.8 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#38

Methylcyclohexane

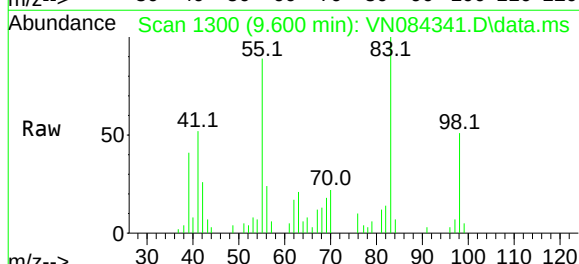
Concen: 4.541 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19



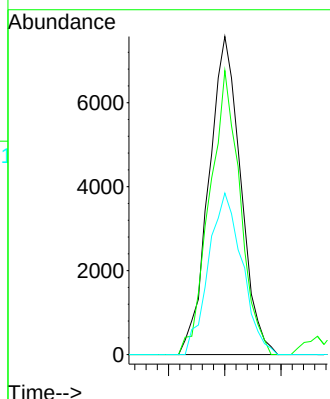
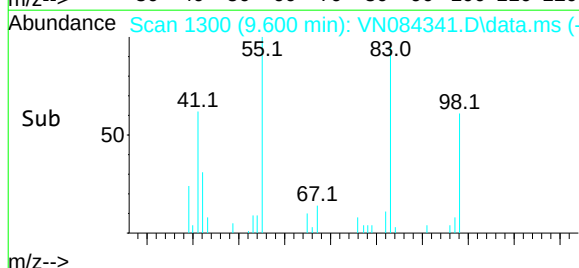
Tgt Ion: 83 Resp: 14911

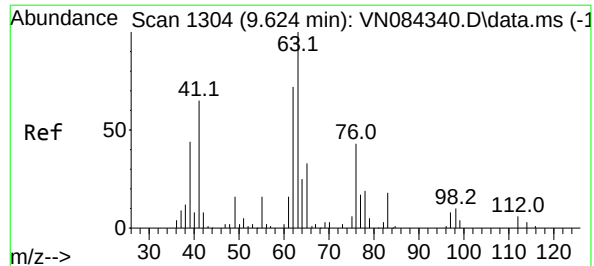
Ion Ratio Lower Upper

83 100

55 85.5 39.3 117.8

98 53.7 24.0 72.0





#39

1,2-Dichloropropane

Concen: 4.992 ug/l

RT: 9.618 min Scan# 13

Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 63 Resp: 11396

Ion Ratio Lower Upper

63 100

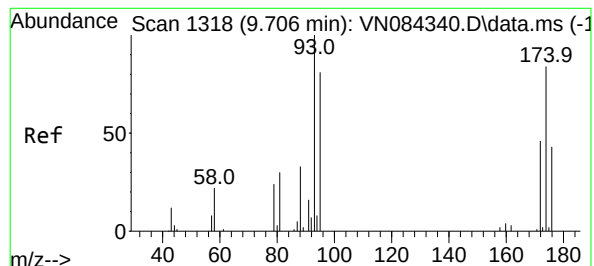
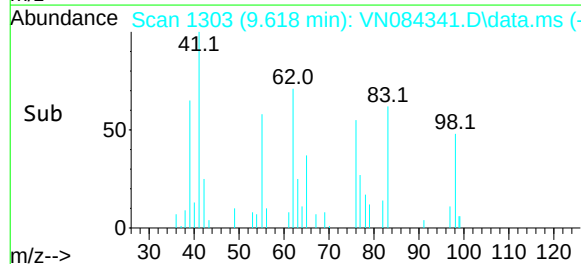
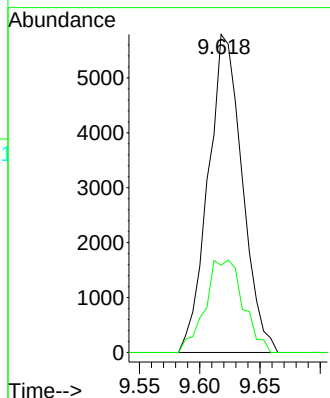
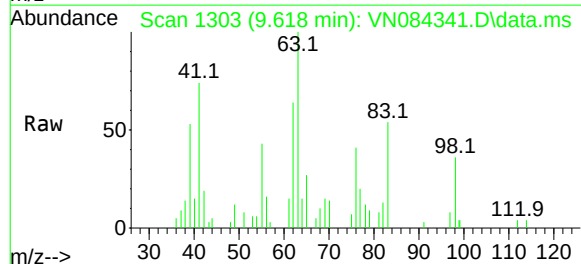
65 27.4 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#40

Dibromomethane

Concen: 5.113 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

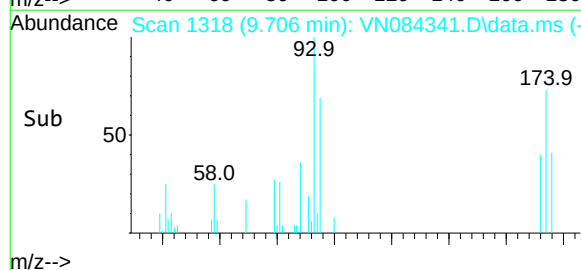
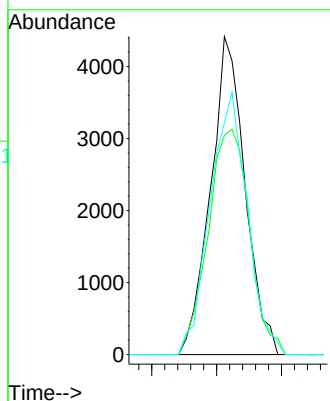
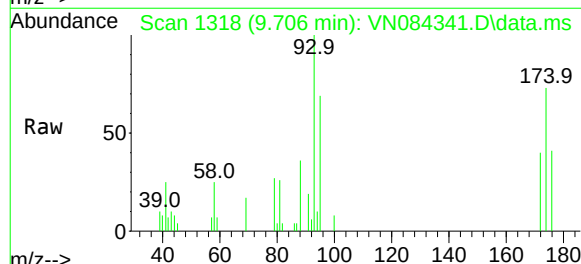
Tgt Ion: 93 Resp: 8154

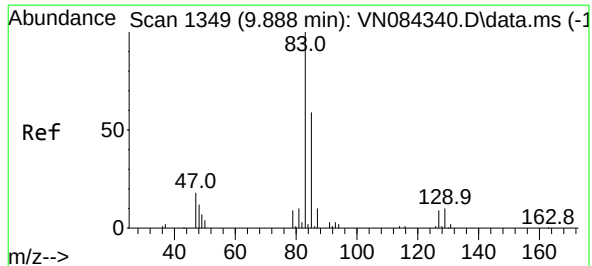
Ion Ratio Lower Upper

93 100

95 84.7 0.0 171.4

174 89.5 0.0 183.0





#41

Bromodichloromethane

Concen: 5.009 ug/l

RT: 9.882 min Scan# 13

Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

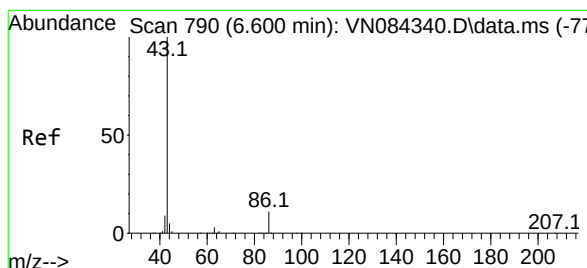
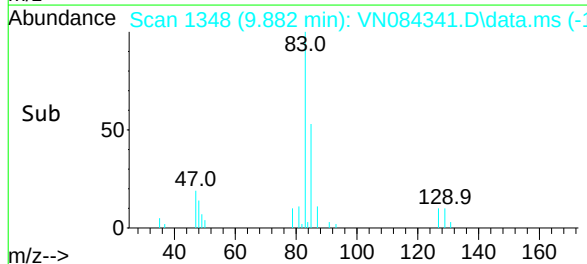
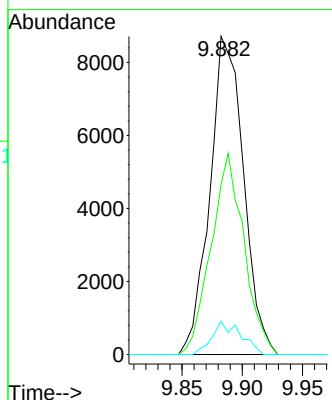
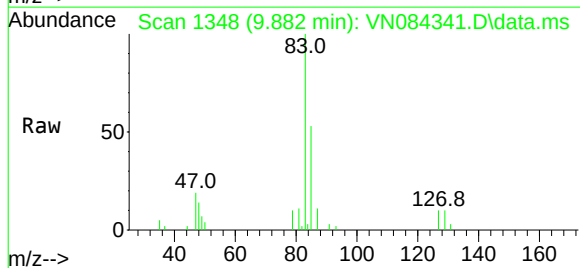
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	16959
Ion	Ratio	Lower	Upper
83	100		
85	53.4	47.1	70.7
127	10.4	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#42

Vinyl Acetate

Concen: 22.946 ug/l

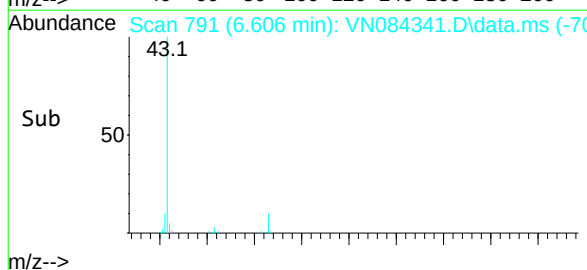
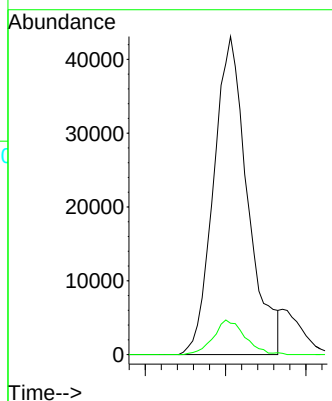
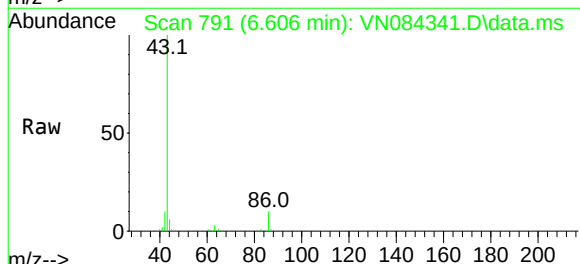
RT: 6.606 min Scan# 791

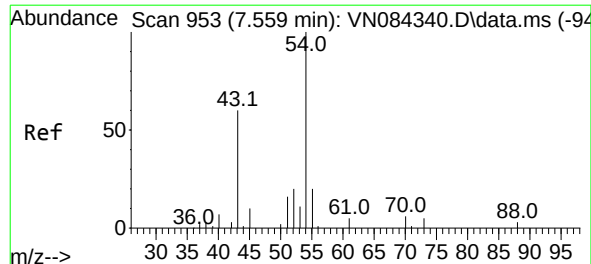
Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	43	Resp:	127008
Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.5	12.7





#43

Ethyl Acetate

Concen: 4.782 ug/l m

RT: 7.565 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 15009

Ion Ratio Lower Upper

43 100

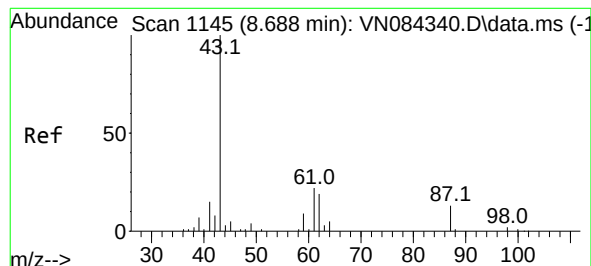
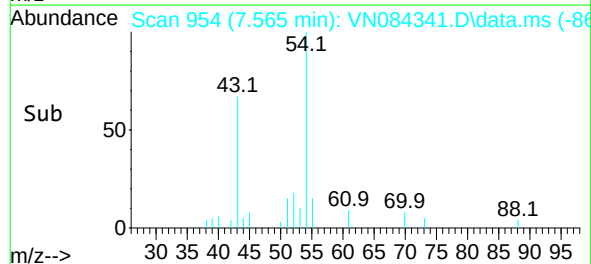
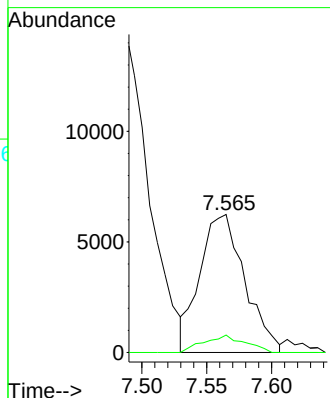
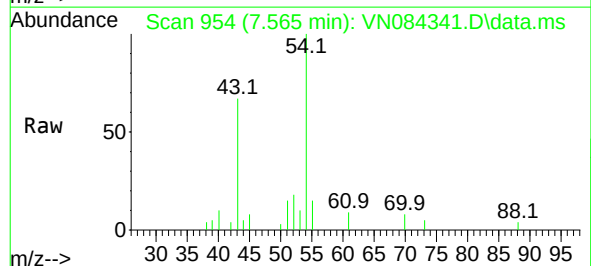
45 11.6 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#44

Isopropyl Acetate

Concen: 4.524 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN084341.D

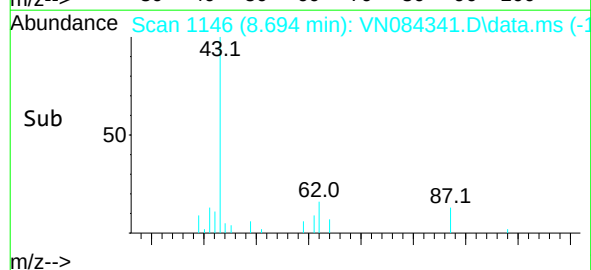
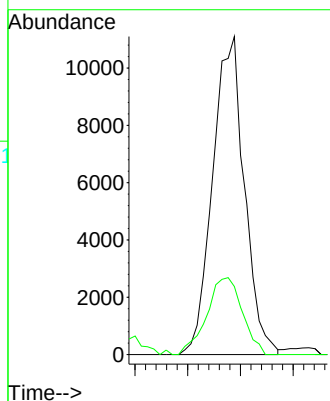
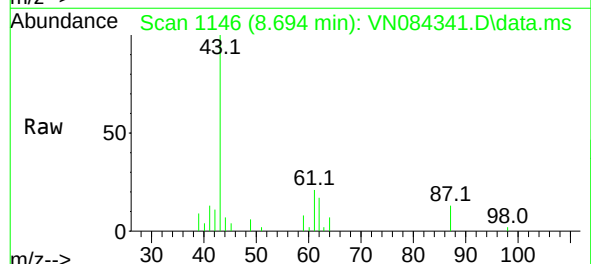
Acq: 08 Oct 2024 11:19

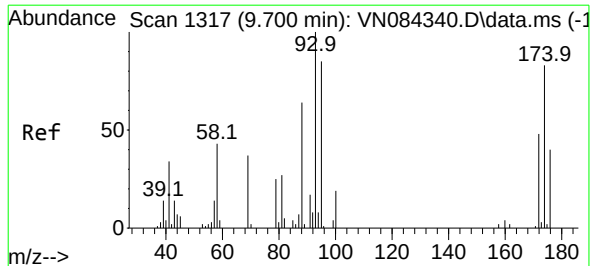
Tgt Ion: 43 Resp: 23240

Ion Ratio Lower Upper

43 100

61 27.0 21.4 32.2





#45

1,4-Dioxane

Concen: 89.589 ug/l

RT: 9.694 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN084341.D

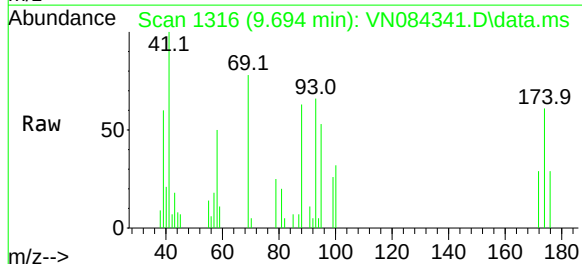
Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 88 Resp: 4149

Ion Ratio Lower Upper

88 100

43 30.4 22.4 33.6

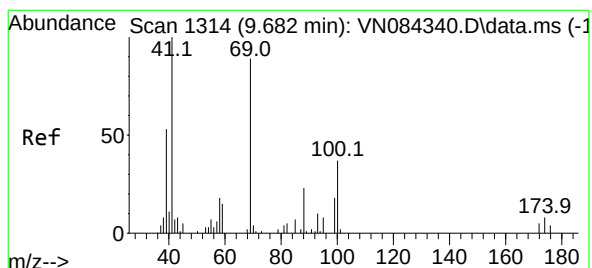
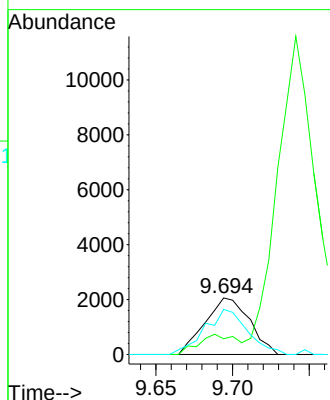
58 76.9 59.7 89.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#46

Methyl methacrylate

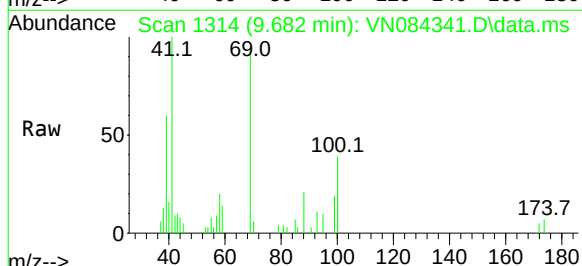
Concen: 4.516 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19



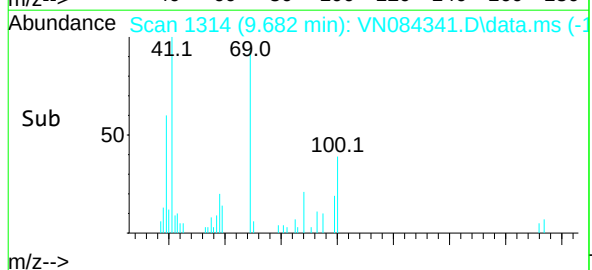
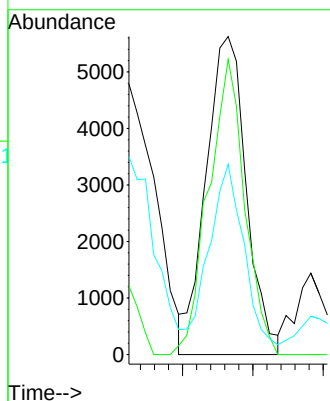
Tgt Ion: 41 Resp: 11210

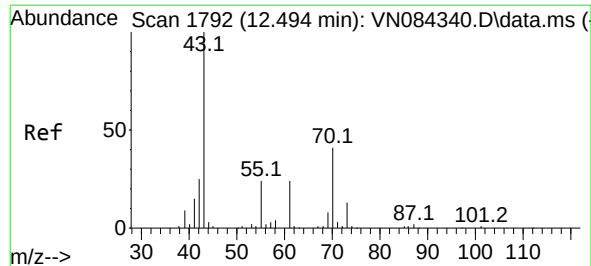
Ion Ratio Lower Upper

41 100

69 98.8 42.6 128.0

39 60.4 27.5 82.4





#47

n-amyl Acetate

Concen: 4.187 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 19132

Ion Ratio Lower Upper

43 100

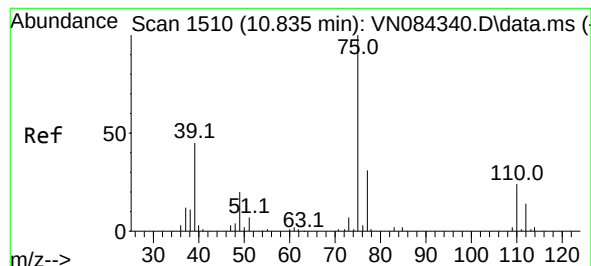
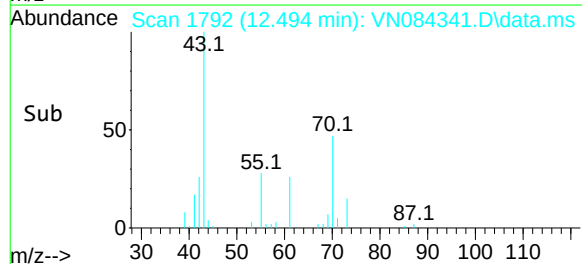
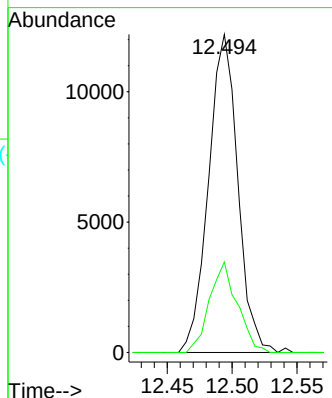
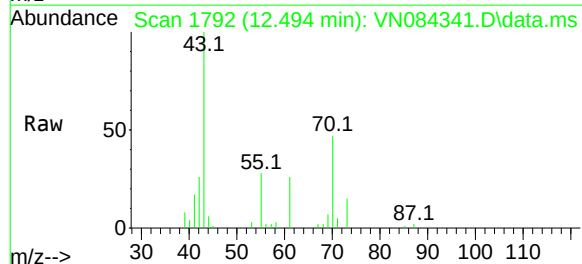
55 27.0 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#48

t-1,3-Dichloropropene

Concen: 4.893 ug/l

RT: 10.841 min Scan# 1511

Delta R.T. 0.006 min

Lab File: VN084341.D

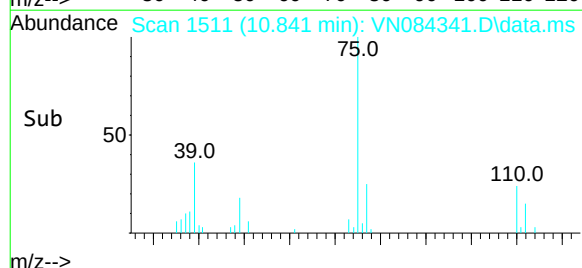
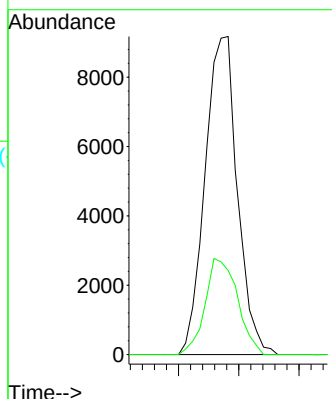
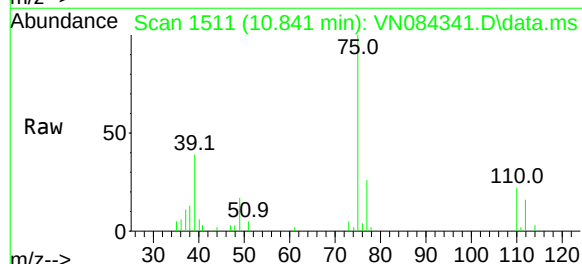
Acq: 08 Oct 2024 11:19

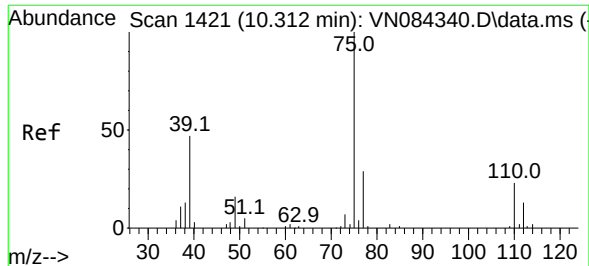
Tgt Ion: 75 Resp: 17119

Ion Ratio Lower Upper

75 100

77 26.4 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 4.560 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN084341.D

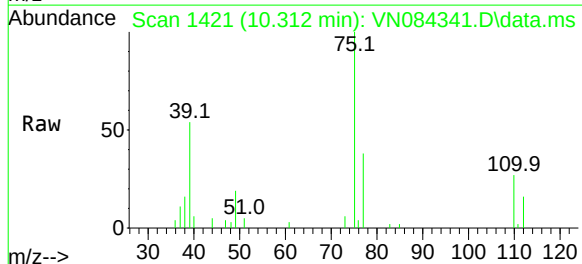
Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



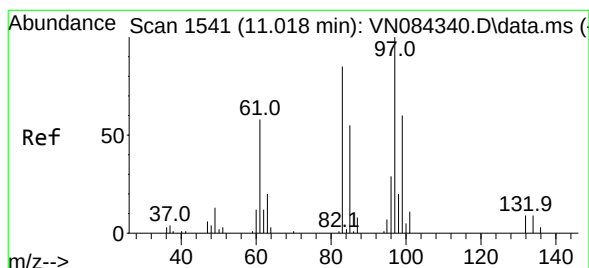
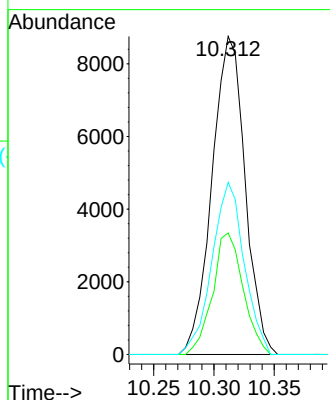
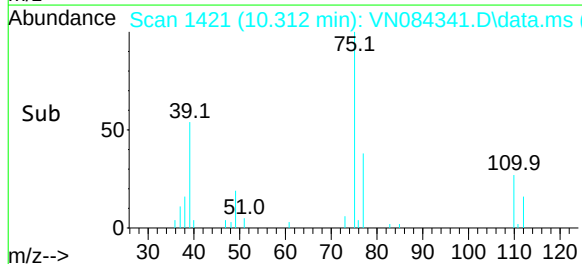
Tgt Ion:	75	Resp:	16720
Ion Ratio	Lower	Upper	
75	100		
77	38.2	22.9	34.3
39	54.1	37.4	56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#50

1,1,2-Trichloroethane

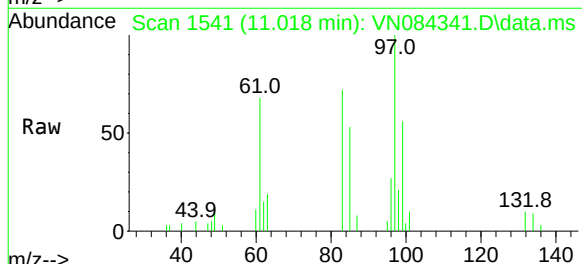
Concen: 5.065 ug/l

RT: 11.018 min Scan# 1541

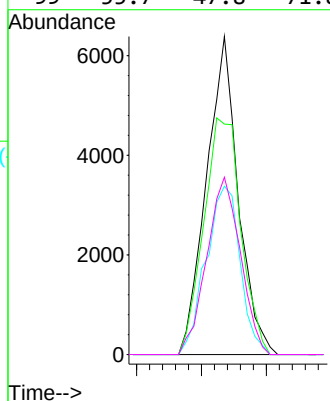
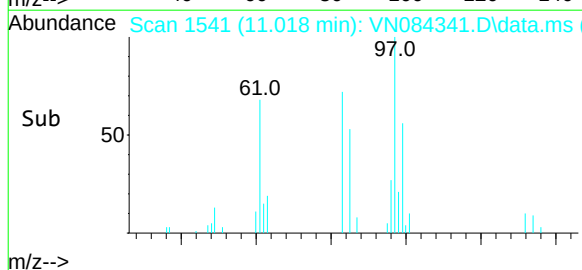
Delta R.T. 0.000 min

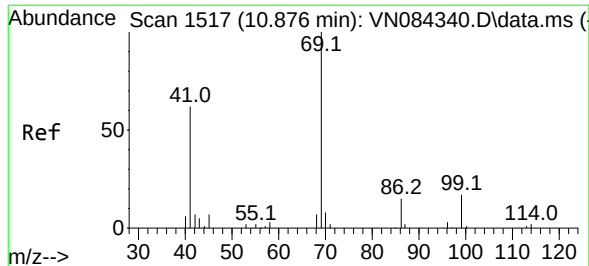
Lab File: VN084341.D

Acq: 08 Oct 2024 11:19



Tgt Ion:	97	Resp:	10856
Ion Ratio	Lower	Upper	
97	100		
83	72.5	67.8	101.8
85	52.9	44.2	66.2
99	55.7	47.8	71.8





#51

Ethyl methacrylate

Concen: 4.109 ug/l

RT: 10.871 min Scan# 1517

Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

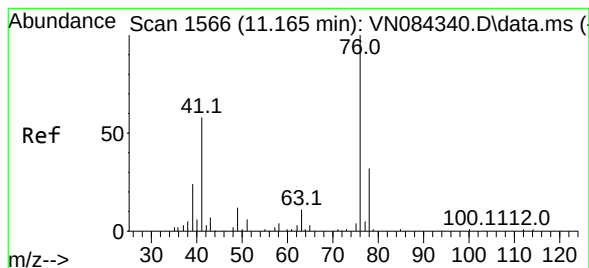
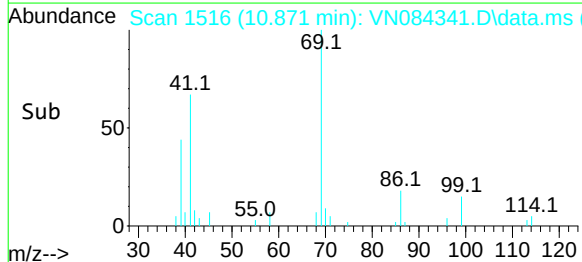
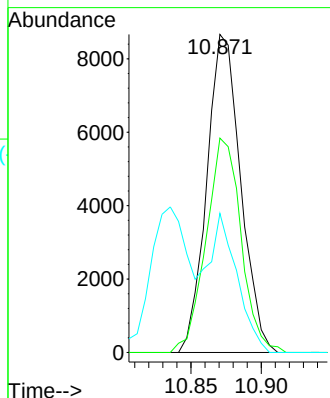
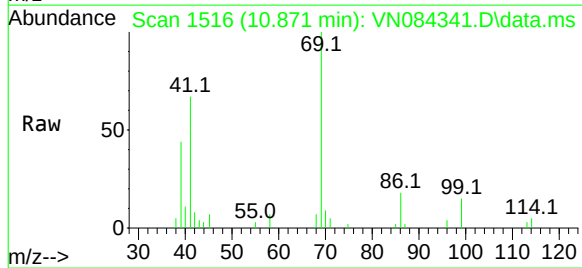
ClientSampleId :

VSTDIC005

Tgt Ion:	69	Resp:	14547
Ion Ratio	Lower	Upper	
69	100		
41	65.6	30.9	92.7
39	43.7	16.6	49.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#52

1,3-Dichloropropane

Concen: 5.011 ug/l

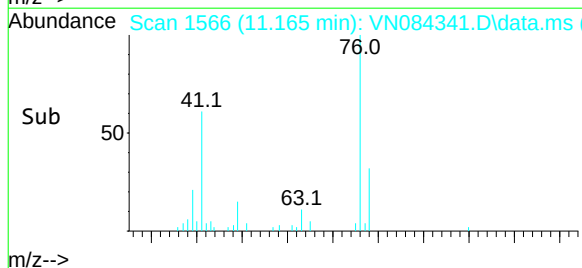
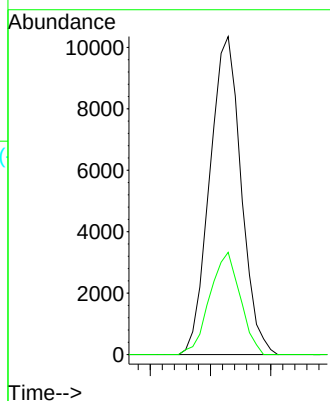
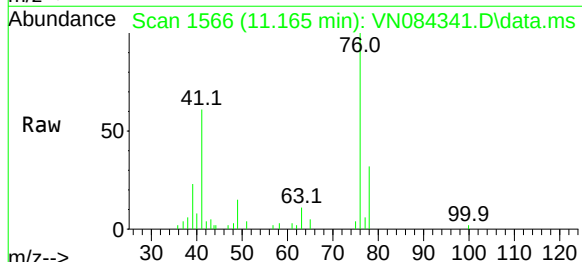
RT: 11.165 min Scan# 1566

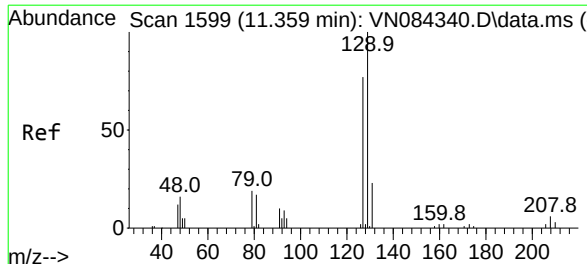
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	76	Resp:	18781
Ion Ratio	Lower	Upper	
76	100		
78	31.1	0.0	64.2





#53

Dibromochloromethane

Concen: 4.880 ug/l

RT: 11.353 min Scan# 1599

Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:129 Resp: 12356

Ion Ratio Lower Upper

129 100

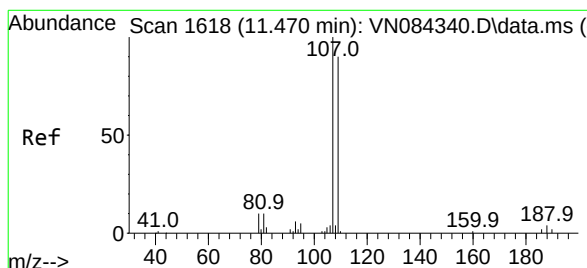
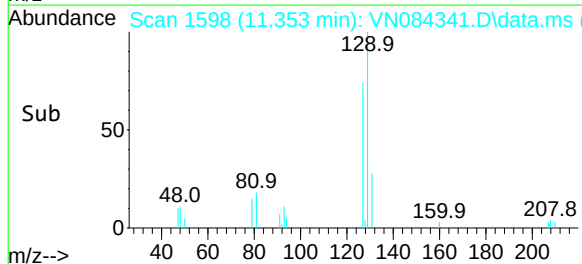
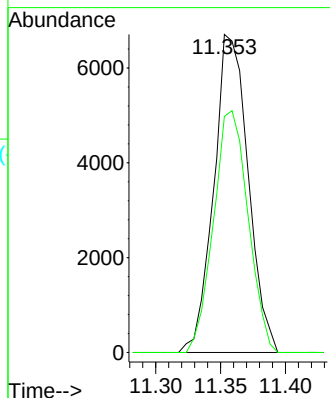
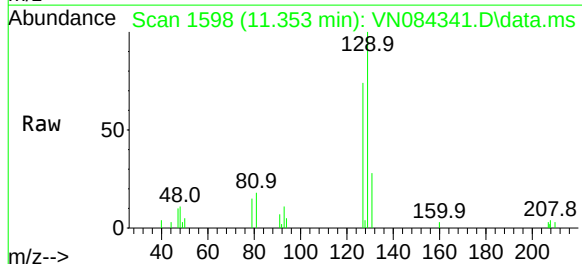
127 76.5 38.5 115.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#54

1,2-Dibromoethane

Concen: 4.844 ug/l

RT: 11.471 min Scan# 1618

Delta R.T. 0.000 min

Lab File: VN084341.D

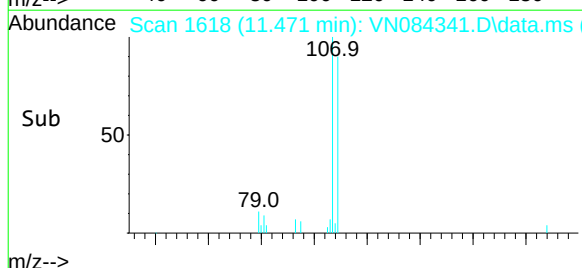
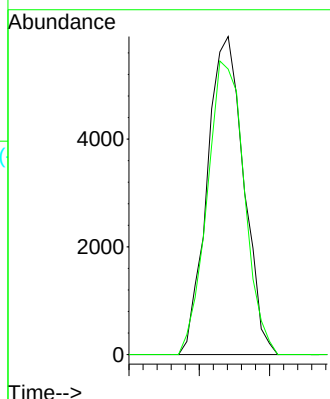
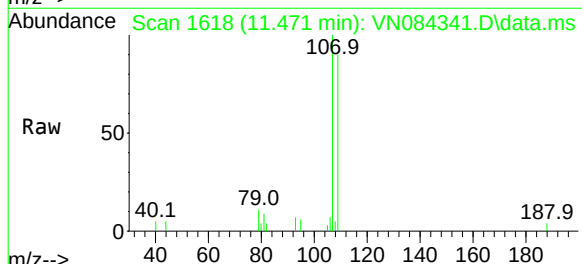
Acq: 08 Oct 2024 11:19

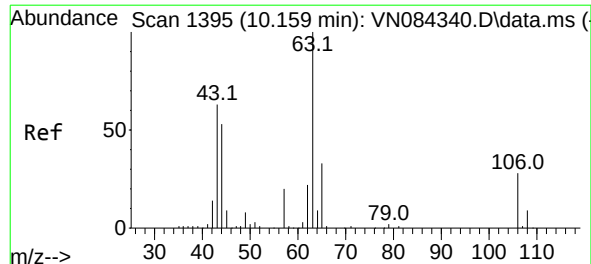
Tgt Ion:107 Resp: 10689

Ion Ratio Lower Upper

107 100

109 93.8 73.8 110.6





#55

2-Chloroethyl vinyl ether

Concen: 21.155 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN084341.D

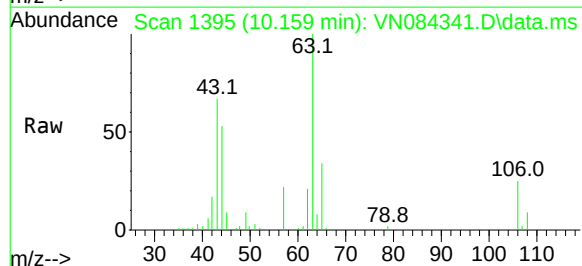
Acq: 08 Oct 2024 11:19

Instrument :

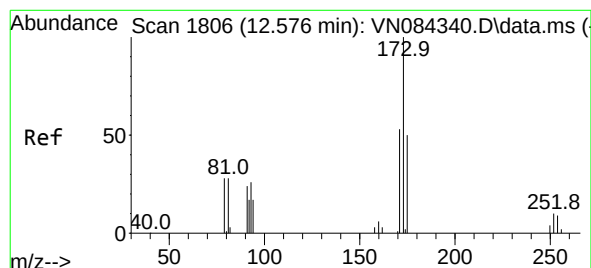
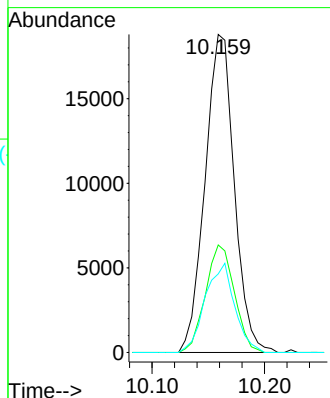
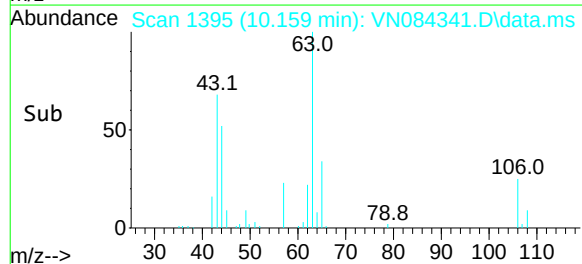
MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion:	63	Resp:	33972
Ion	Ratio	Lower	Upper
63	100		
65	33.4	25.6	38.4
106	28.4	21.6	32.4

Manual Integrations
APPROVEDReviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

#56

Bromoform

Concen: 4.725 ug/l

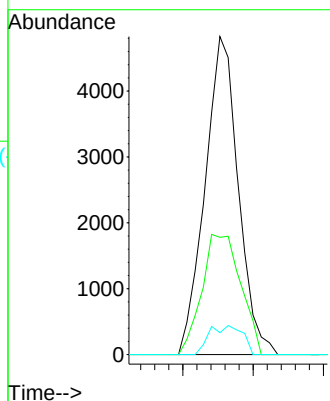
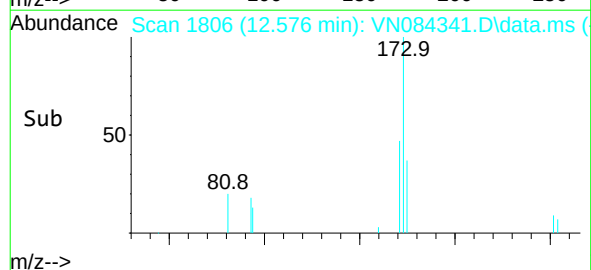
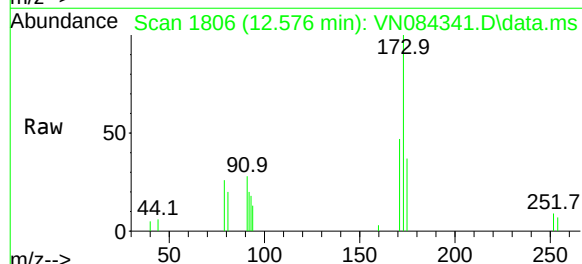
RT: 12.576 min Scan# 1806

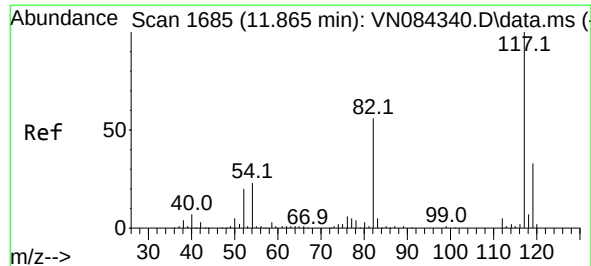
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	173	Resp:	7936
Ion	Ratio	Lower	Upper
173	100		
175	44.2	39.4	59.2
254	4.0	6.8	10.2





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 168912

Ion Ratio Lower Upper

117 100

82 57.8 46.2 69.4

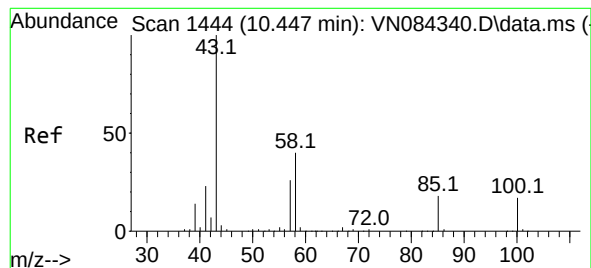
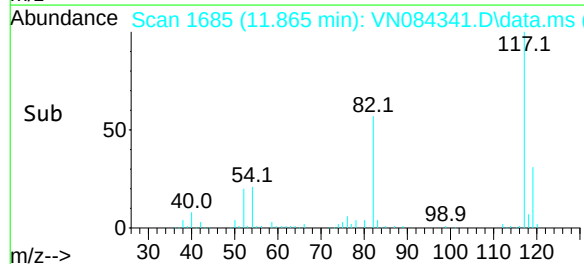
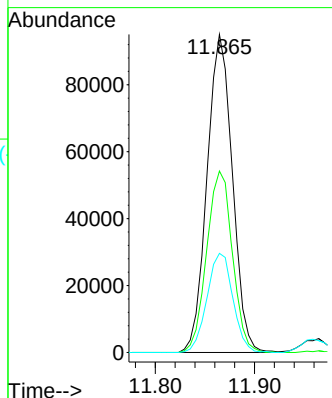
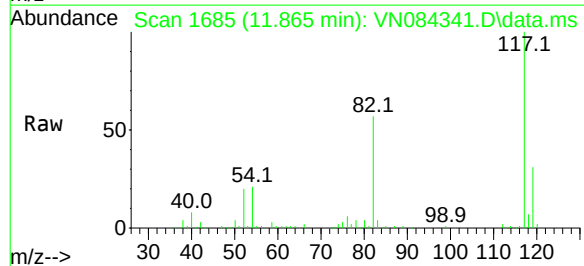
119 31.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#58

4-Methyl-2-Pentanone

Concen: 23.145 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

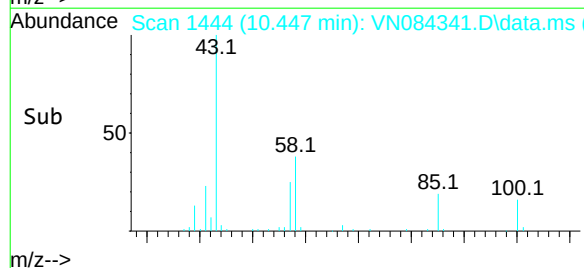
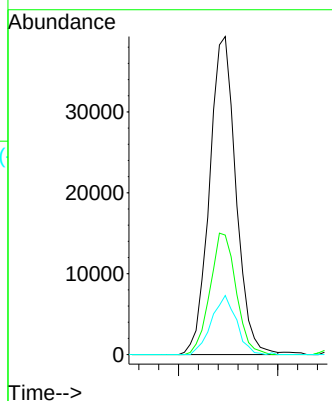
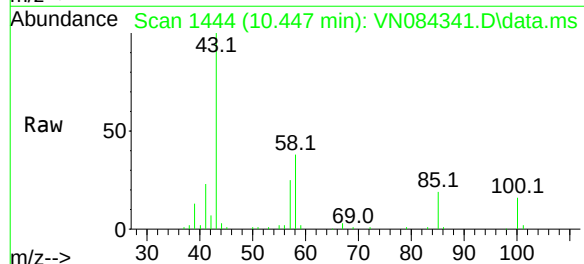
Tgt Ion: 43 Resp: 72827

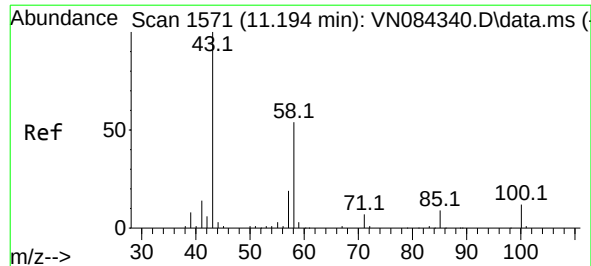
Ion Ratio Lower Upper

43 100

58 37.7 31.9 47.9

85 17.6 14.6 22.0





#59

2-Hexanone

Concen: 22.071 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 51606

Ion Ratio Lower Upper

43 100

58 53.0 44.0 66.0

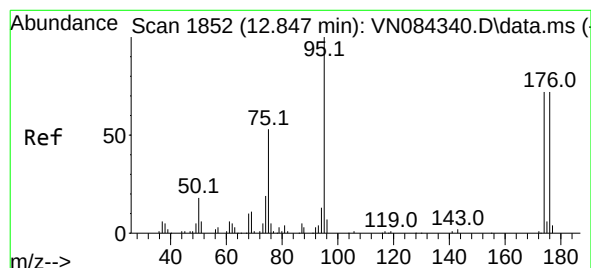
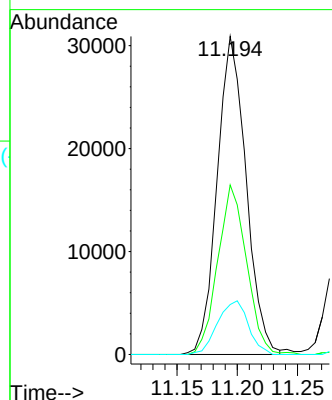
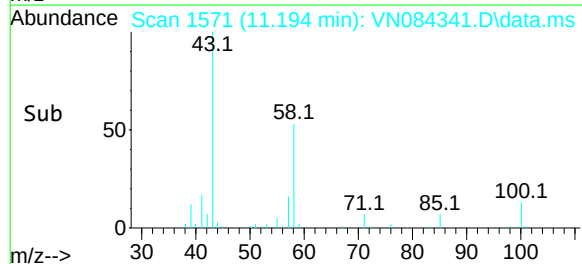
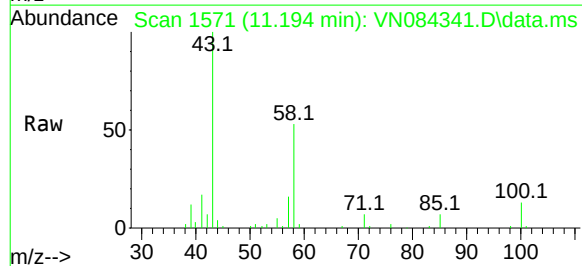
57 17.9 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#60

4-Bromofluorobenzene

Concen: 28.170 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

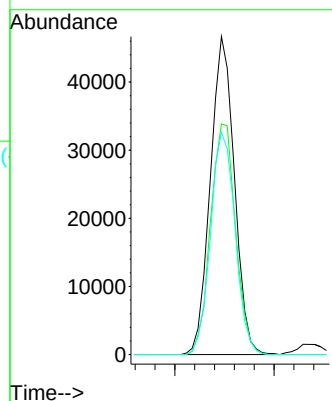
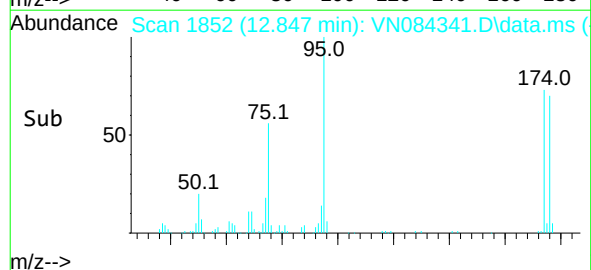
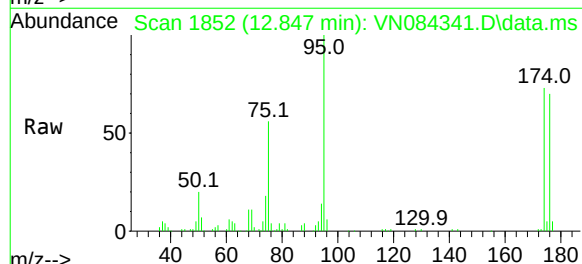
Tgt Ion: 95 Resp: 78531

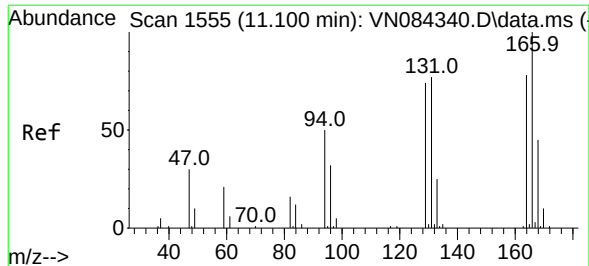
Ion Ratio Lower Upper

95 100

174 75.5 58.2 87.2

176 71.4 56.4 84.6





#61

Tetrachloroethene

Concen: 5.266 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN084341.D

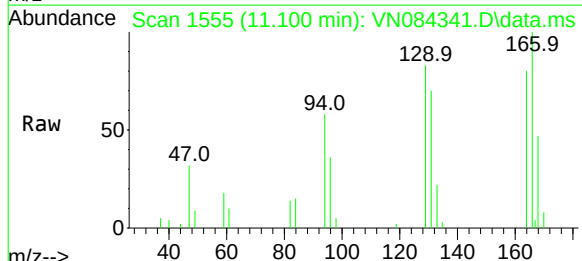
Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 164 Resp: 10061

Ion Ratio Lower Upper

164 100

166 124.3 102.5 153.7

129 103.3 75.7 113.5

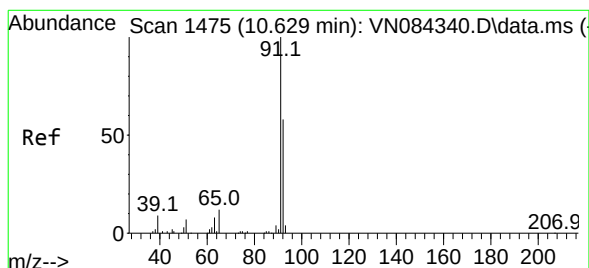
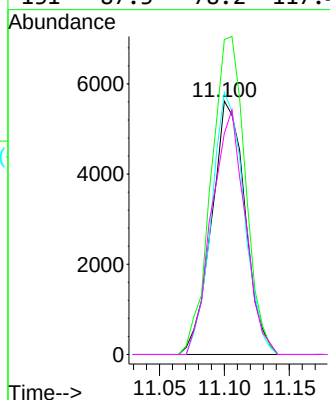
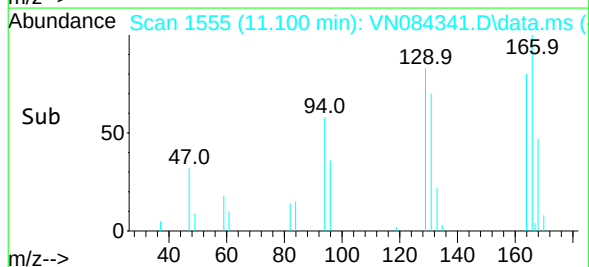
131 87.3 78.2 117.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#62

Toluene

Concen: 5.030 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN084341.D

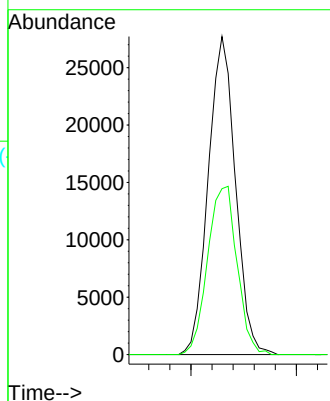
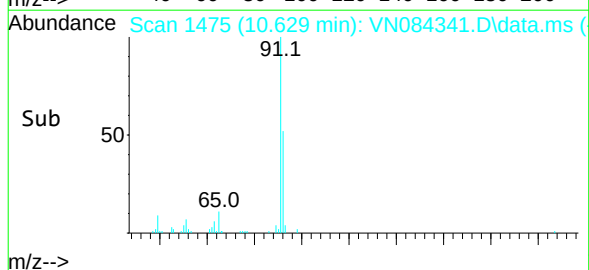
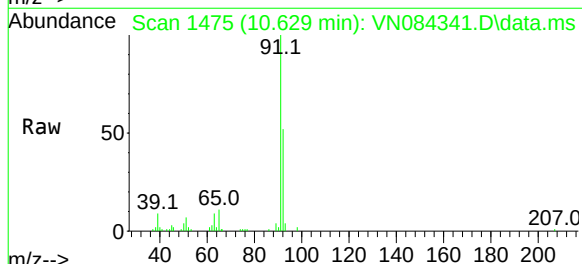
Acq: 08 Oct 2024 11:19

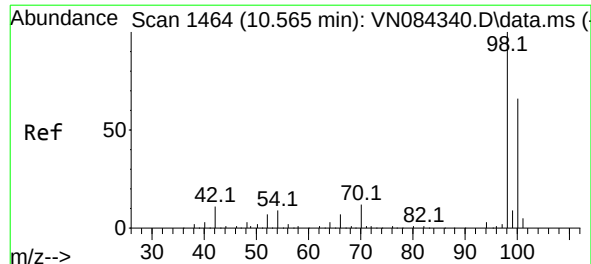
Tgt Ion: 91 Resp: 49743

Ion Ratio Lower Upper

91 100

92 57.1 47.2 70.8





#63

Toluene-d8

Concen: 30.307 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 98 Resp: 237159

Ion Ratio Lower Upper

98 100

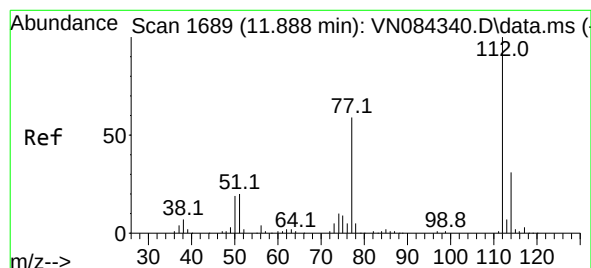
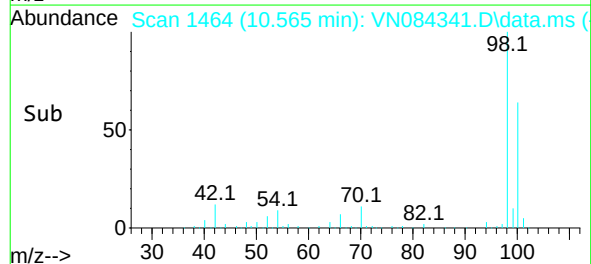
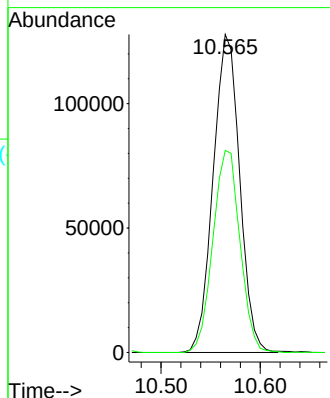
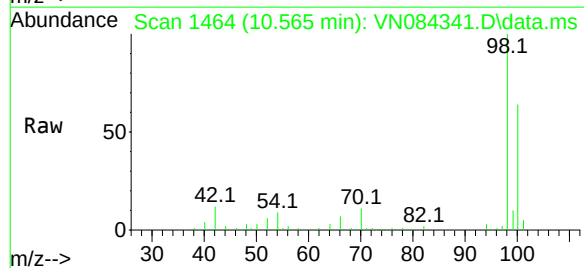
100 64.8 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#64

Chlorobenzene

Concen: 5.199 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084341.D

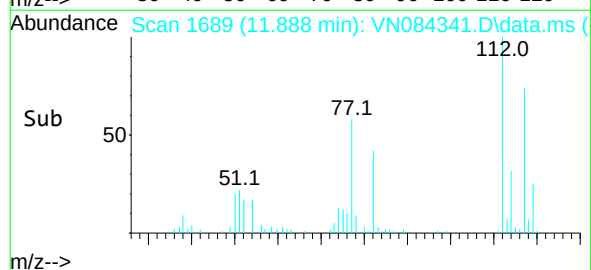
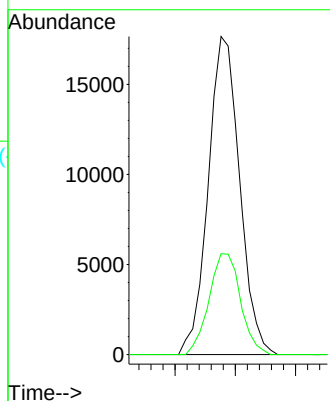
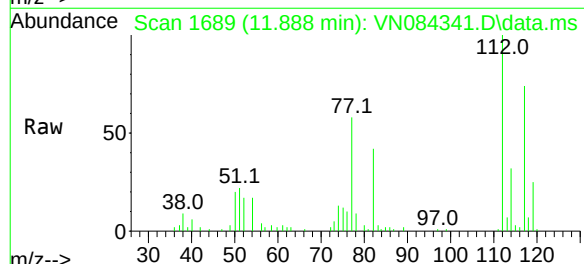
Acq: 08 Oct 2024 11:19

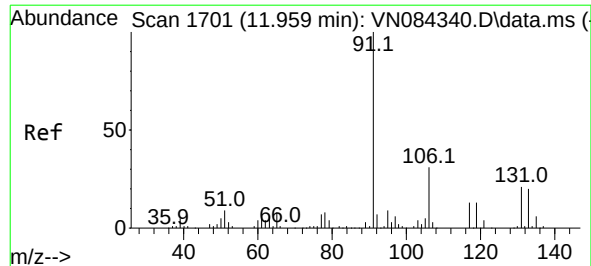
Tgt Ion:112 Resp: 31991

Ion Ratio Lower Upper

112 100

114 31.7 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 4.961 ug/l

RT: 11.965 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

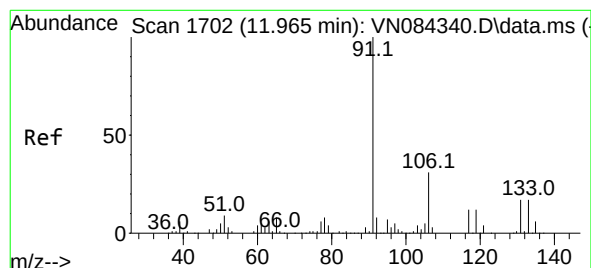
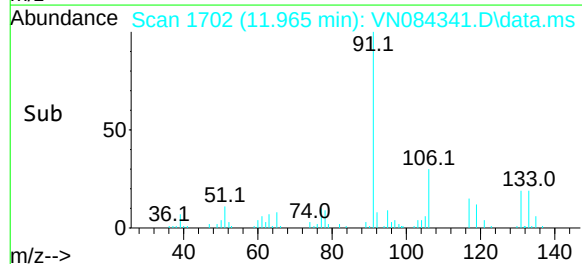
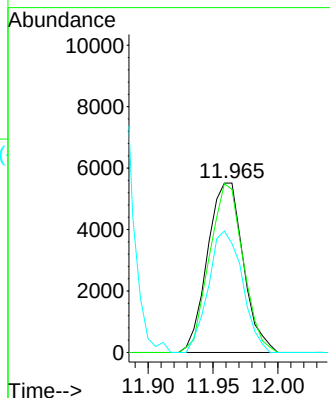
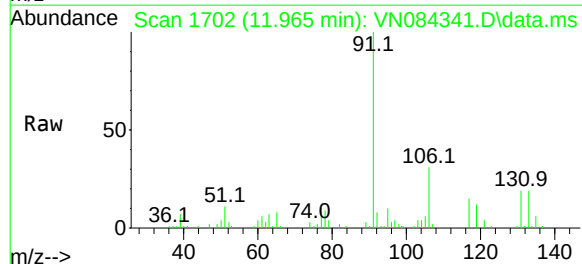
Tgt Ion:	131	Resp:	10606
Ion Ratio	Lower	Upper	
131	100		
133	93.6	0.0	190.4
119	68.0	0.0	130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#66

Ethyl Benzene

Concen: 4.494 ug/l

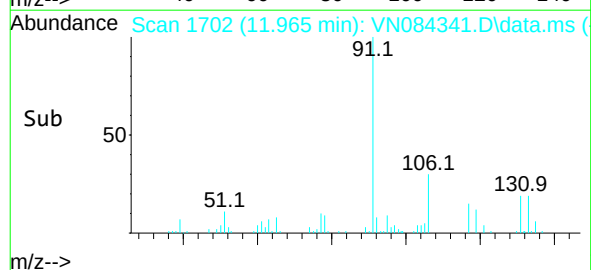
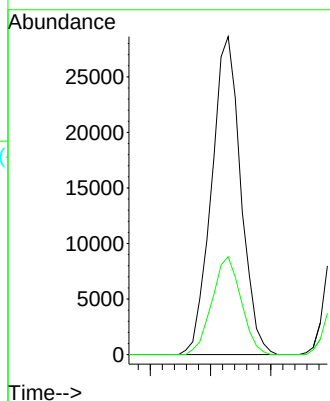
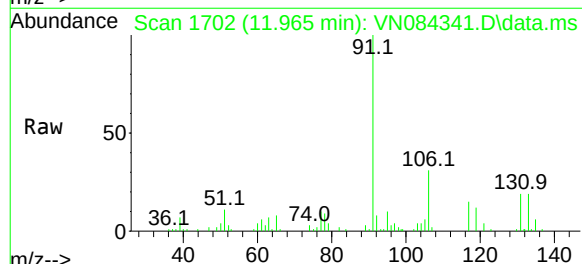
RT: 11.965 min Scan# 1702

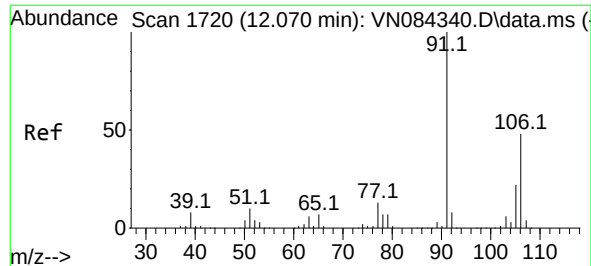
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	91	Resp:	48285
Ion Ratio	Lower	Upper	
91	100		
106	30.8	25.2	37.8





#67

m/p-Xylenes

Concen: 9.030 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:106 Resp: 36802

Ion Ratio Lower Upper

106 100

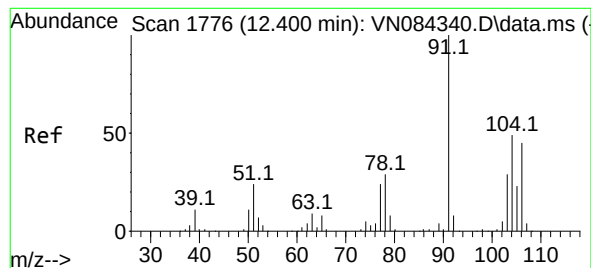
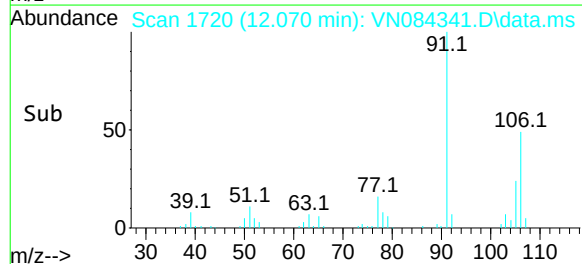
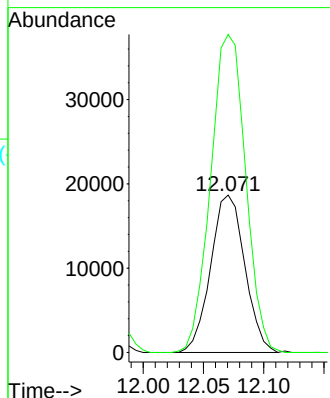
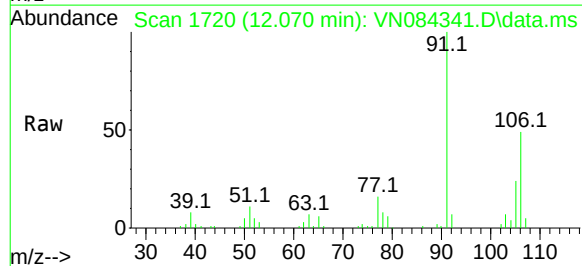
91 206.9 166.7 250.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#68

o-Xylene

Concen: 4.591 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN084341.D

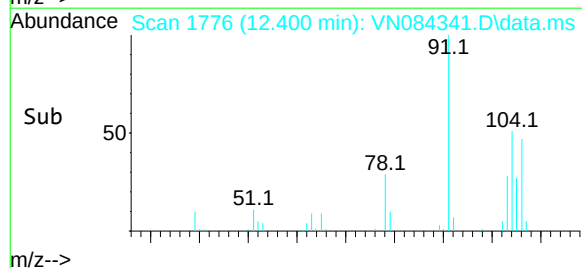
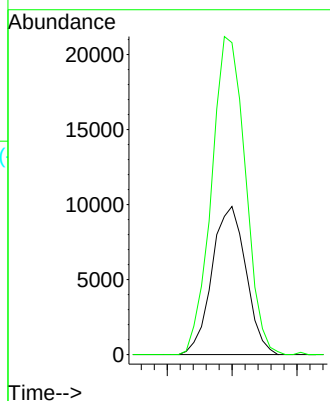
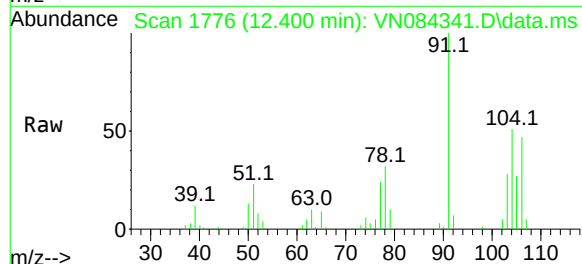
Acq: 08 Oct 2024 11:19

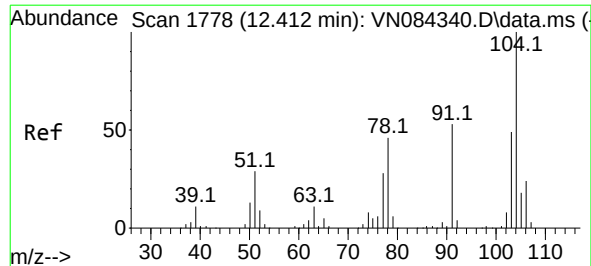
Tgt Ion:106 Resp: 18036

Ion Ratio Lower Upper

106 100

91 212.7 110.9 332.9





#69

Styrene

Concen: 4.421 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

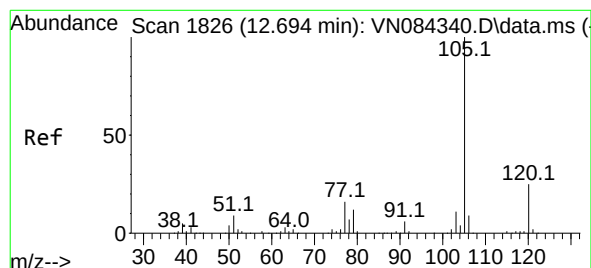
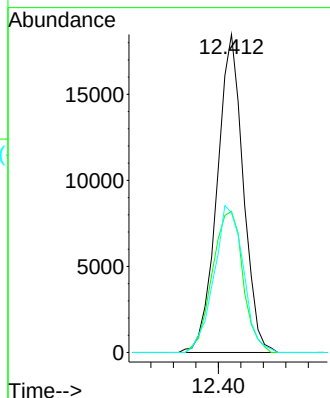
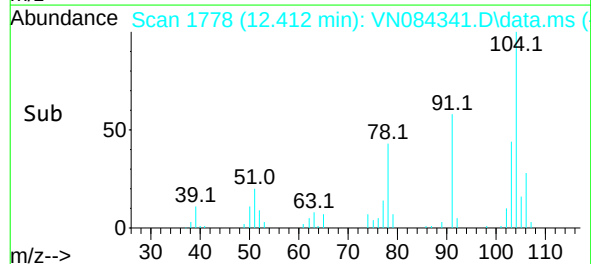
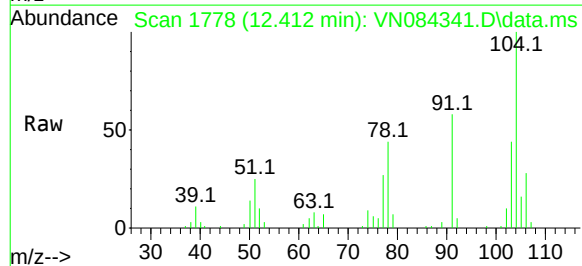
Tgt Ion:	104	Resp:	29815
Ion Ratio	Lower	Upper	
104	100		
78	52.0	41.6	62.4
103	51.9	44.4	66.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#70

Isopropylbenzene

Concen: 4.455 ug/l

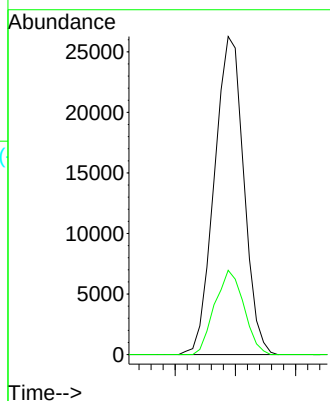
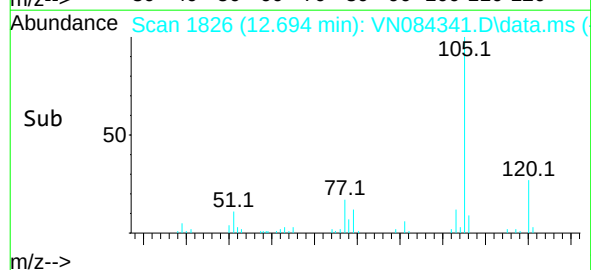
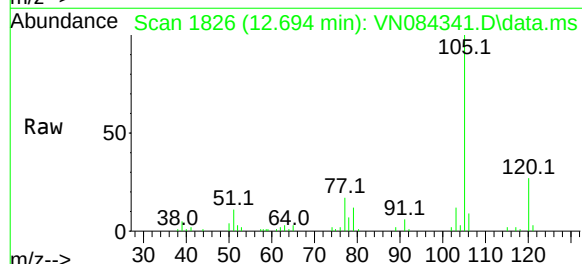
RT: 12.694 min Scan# 1826

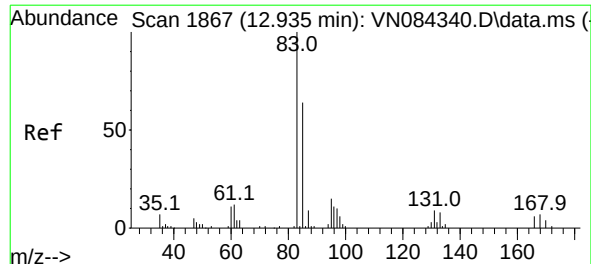
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	105	Resp:	44677
Ion Ratio	Lower	Upper	
105	100		
120	26.1	17.4	32.4





#71

1,1,2,2-Tetrachloroethane

Concen: 4.928 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

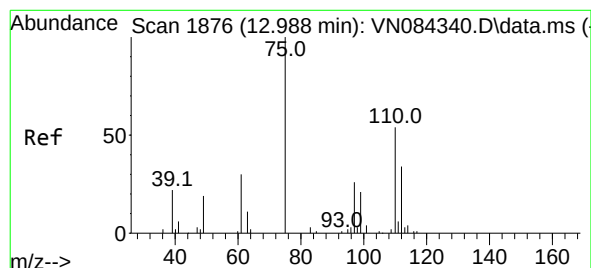
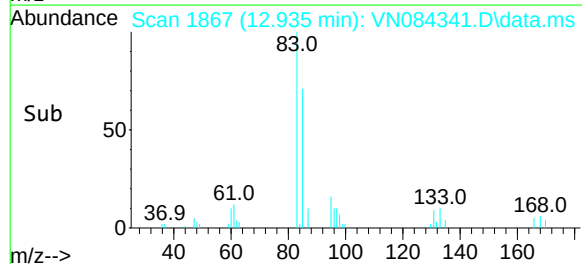
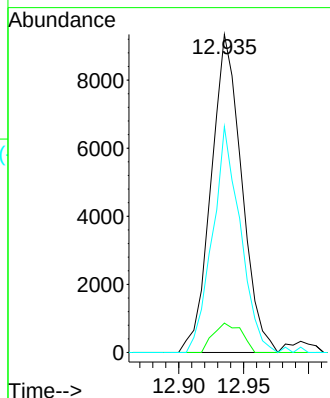
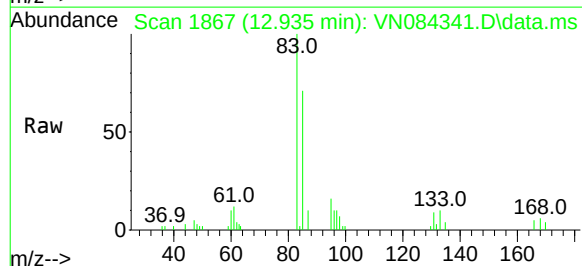
VSTDICC005

Tgt Ion:	83	Resp:	15289
Ion	Ratio	Lower	Upper
83	100		
131	8.6	5.1	15.3
85	64.7	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#72

1,2,3-Trichloropropane

Concen: 4.794 ug/l m

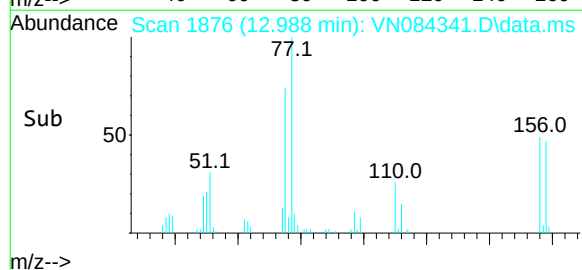
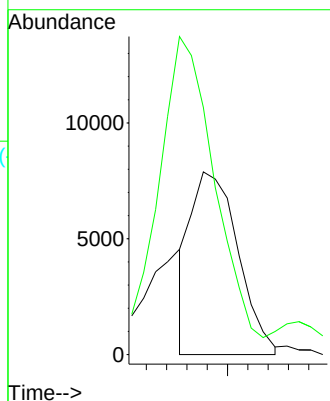
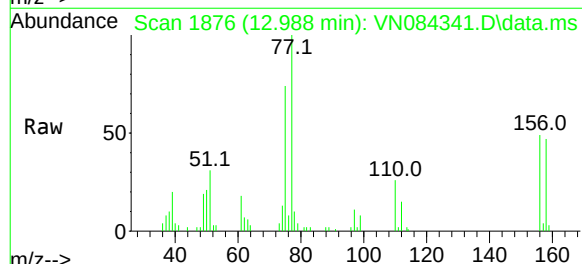
RT: 12.988 min Scan# 1876

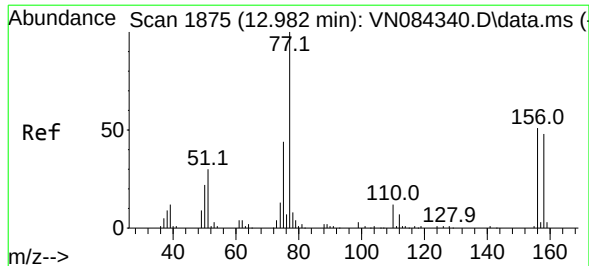
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	75	Resp:	12720
Ion	Ratio	Lower	Upper
75	100		
77	213.3	0.0	414.0





#73

Bromobenzene

Concen: 4.826 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VN084341.D

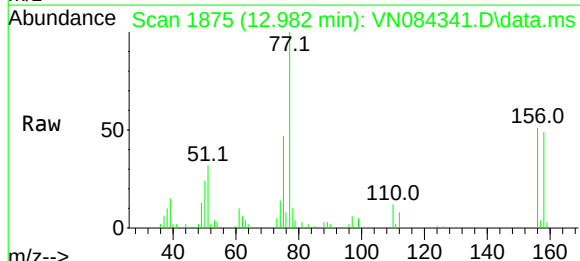
Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

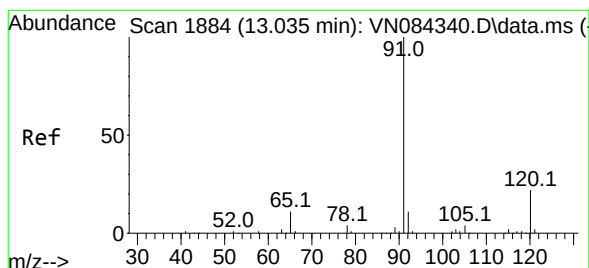
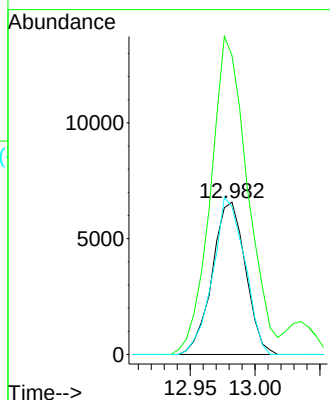
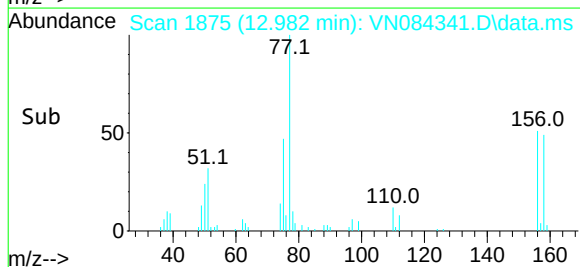
VSTDIC005



Tgt Ion:	156	Resp:	11720
Ion	Ratio	Lower	Upper
156	100		
77	231.5	0.0	451.0
158	99.2	0.0	194.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#74

n-propylbenzene

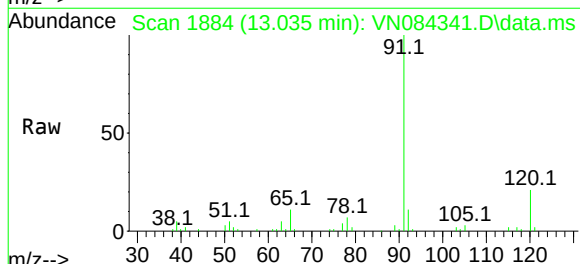
Concen: 4.431 ug/l

RT: 13.035 min Scan# 1884

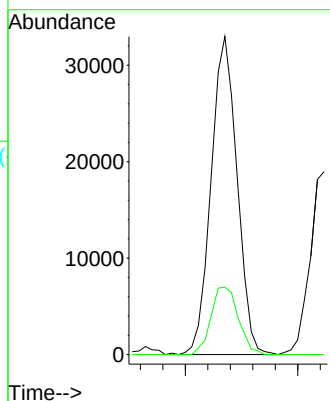
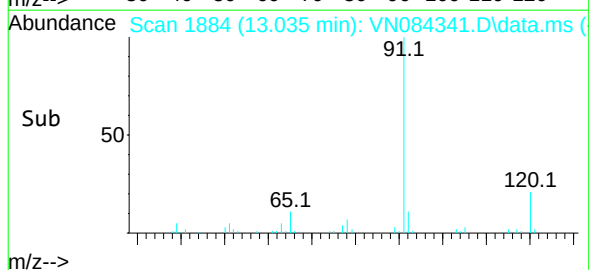
Delta R.T. 0.000 min

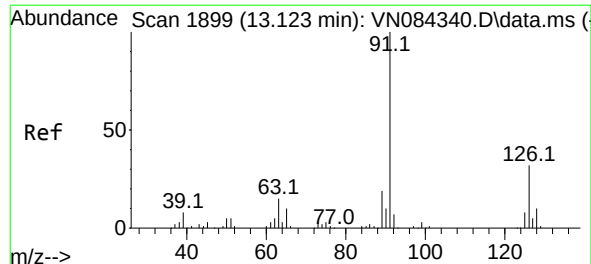
Lab File: VN084341.D

Acq: 08 Oct 2024 11:19



Tgt Ion:	91	Resp:	52955
Ion	Ratio	Lower	Upper
91	100		
120	22.4	0.0	43.2





#75

2-Chlorotoluene

Concen: 4.673 ug/l

RT: 13.123 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 34704

Ion Ratio Lower Upper

91 100

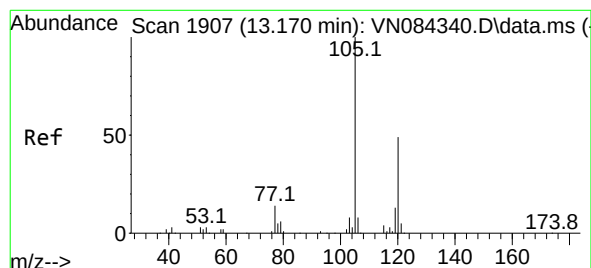
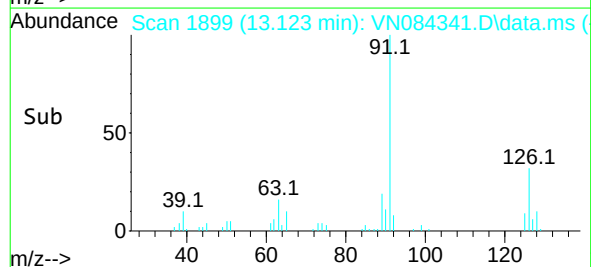
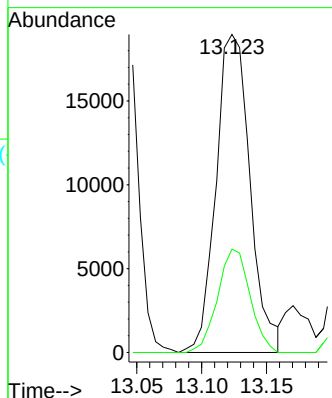
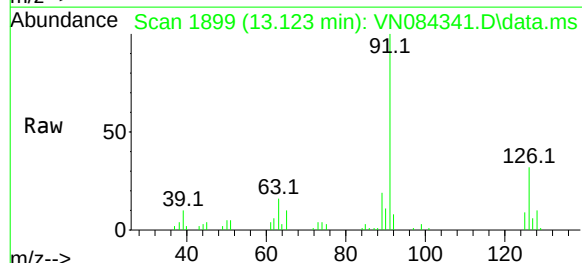
126 30.8 0.0 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#76

1,3,5-Trimethylbenzene

Concen: 4.410 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VN084341.D

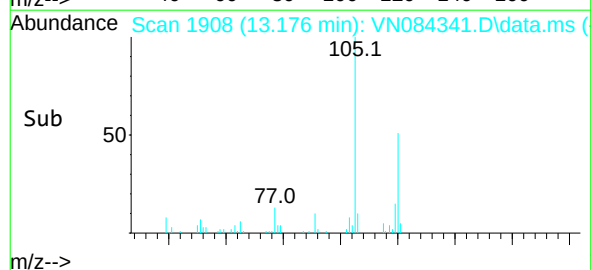
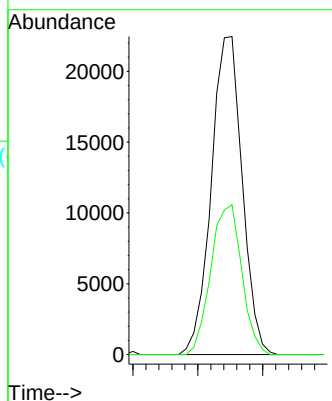
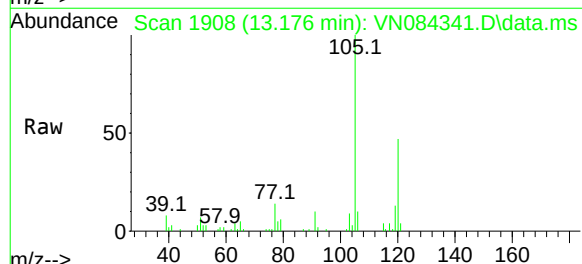
Acq: 08 Oct 2024 11:19

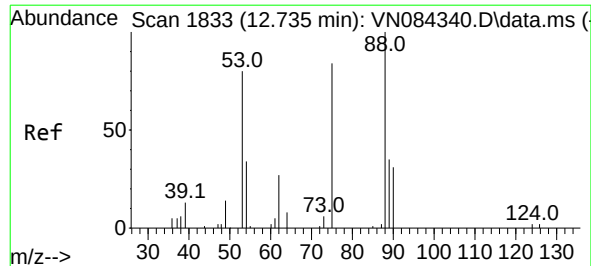
Tgt Ion:105 Resp: 37234

Ion Ratio Lower Upper

105 100

120 47.0 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 4.245 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

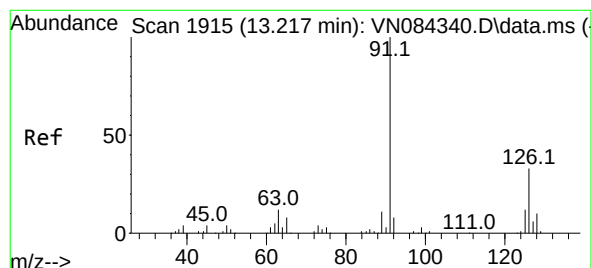
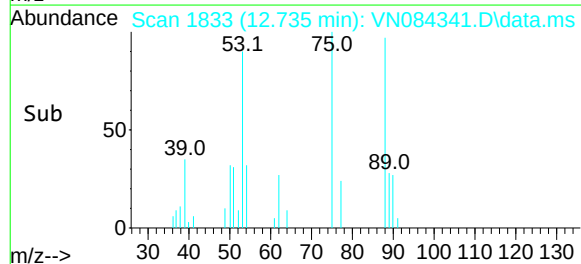
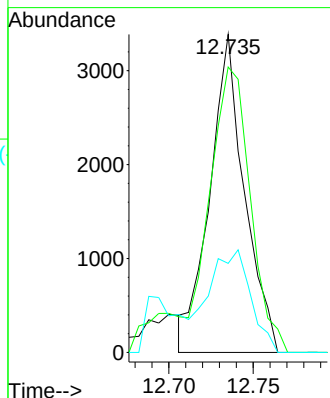
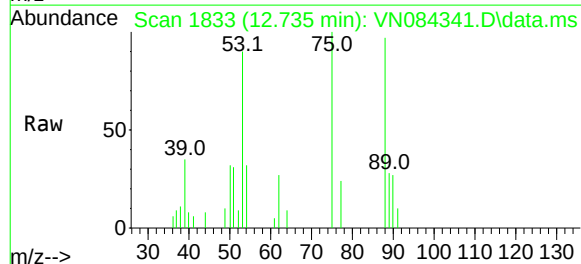
VSTDIC005

Tgt Ion:	75	Resp:	4820
Ion	Ratio	Lower	Upper
75	100		
53	82.4	47.3	142.0
89	28.0	22.9	68.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#78

4-Chlorotoluene

Concen: 4.653 ug/l

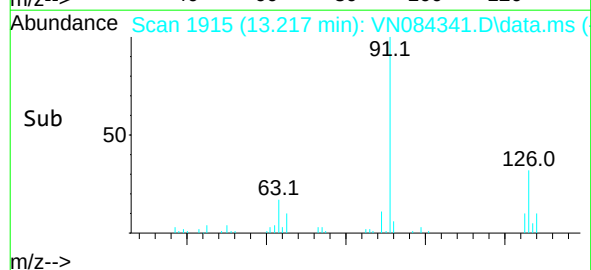
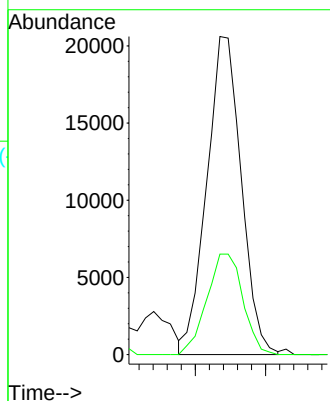
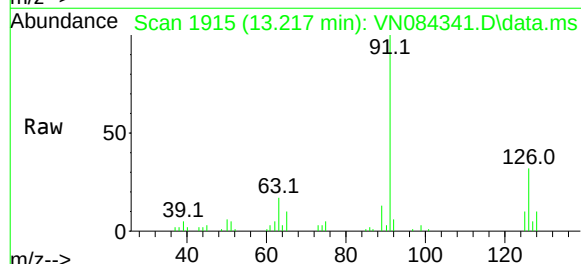
RT: 13.217 min Scan# 1915

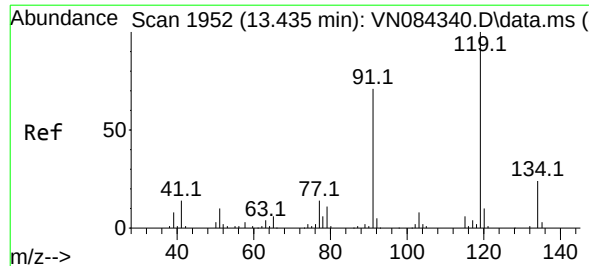
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	91	Resp:	35132
Ion	Ratio	Lower	Upper
91	100		
126	33.0	0.0	62.4





#79

tert-butylbenzene

Concen: 4.384 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:119 Resp: 31579

Ion Ratio Lower Upper

119 100

91 67.7 0.0 138.0

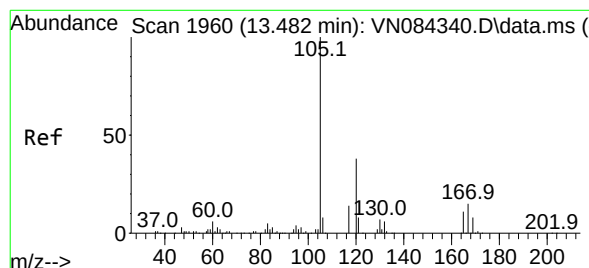
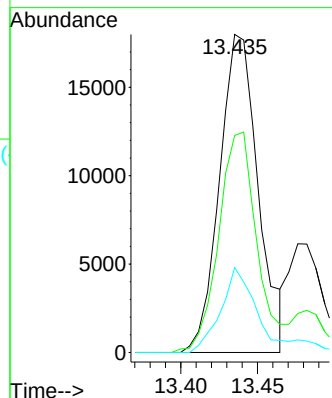
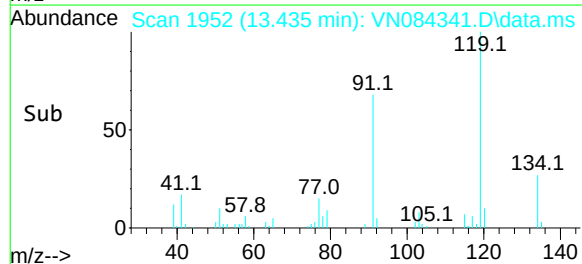
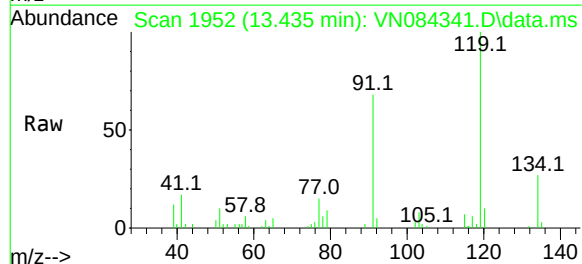
134 23.7 0.0 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#80

1,2,4-Trimethylbenzene

Concen: 4.427 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084341.D

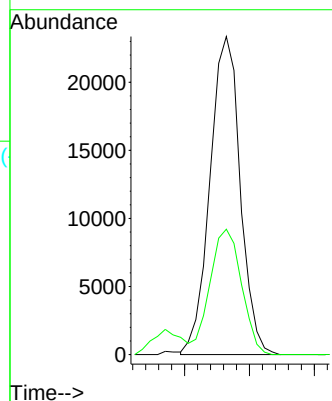
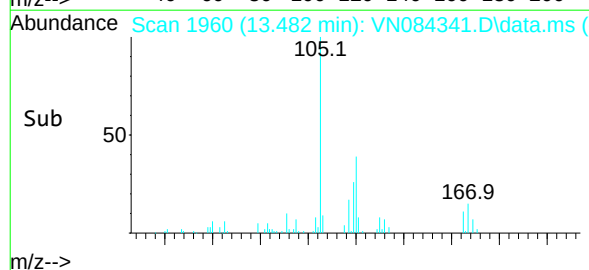
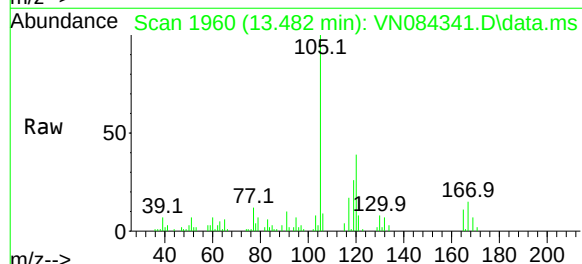
Acq: 08 Oct 2024 11:19

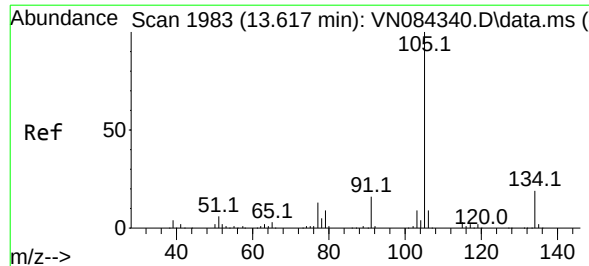
Tgt Ion:105 Resp: 37927

Ion Ratio Lower Upper

105 100

120 41.2 0.0 88.8





#81

sec-Butylbenzene

Concen: 4.321 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:105 Resp: 42859

Ion Ratio Lower Upper

105 100

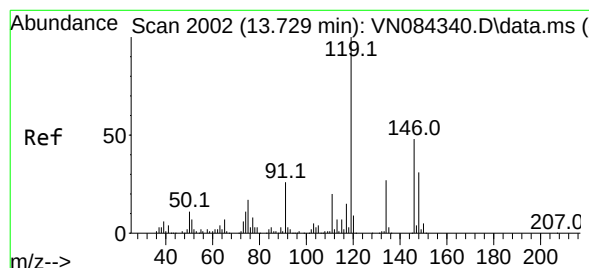
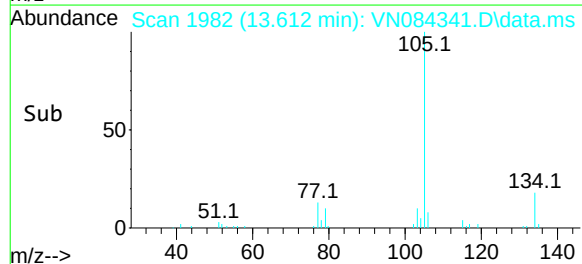
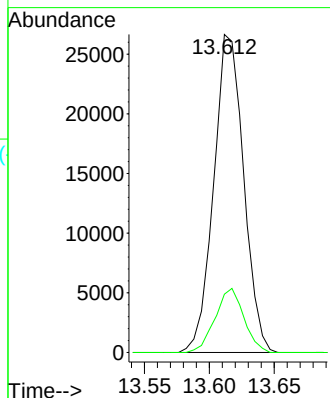
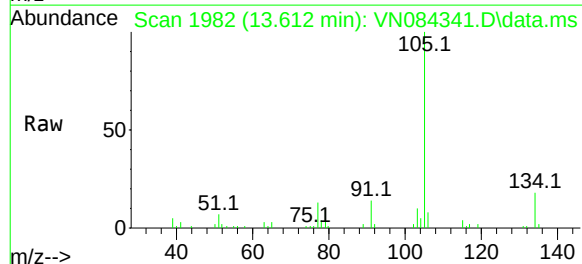
134 19.3 0.0 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#82

p-Isopropyltoluene

Concen: 4.335 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

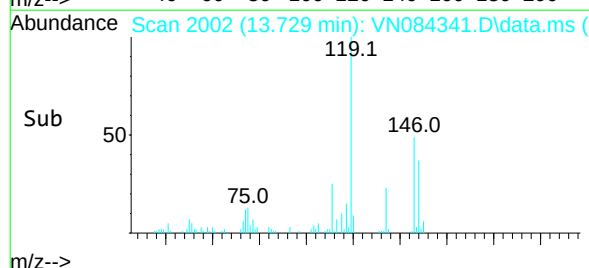
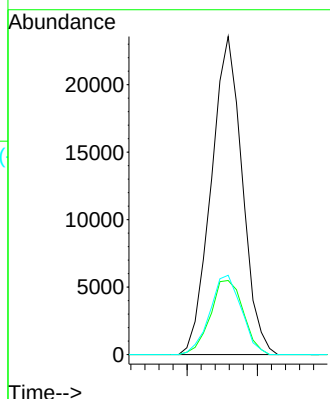
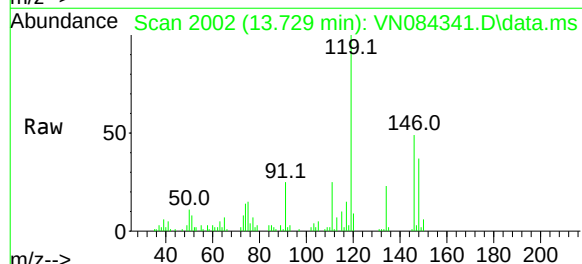
Tgt Ion:119 Resp: 36191

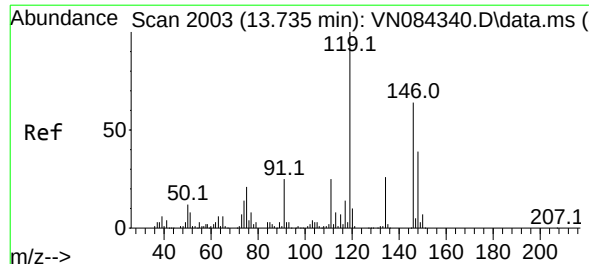
Ion Ratio Lower Upper

119 100

134 24.8 0.0 50.2

91 25.4 0.0 50.6





#83

1,3-Dichlorobenzene

Concen: 4.675 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 21112

Ion Ratio Lower Upper

146 100

111 46.3 20.6 61.9

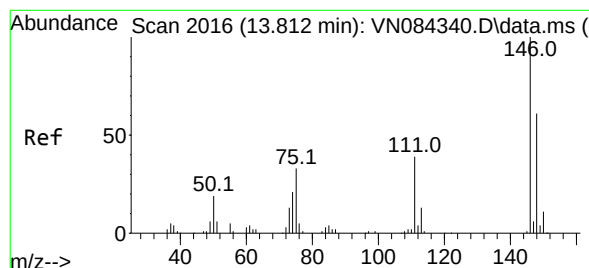
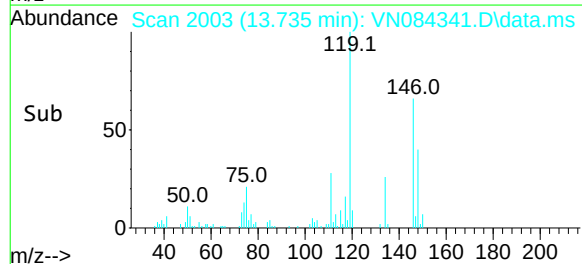
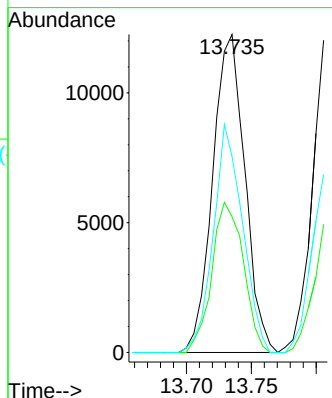
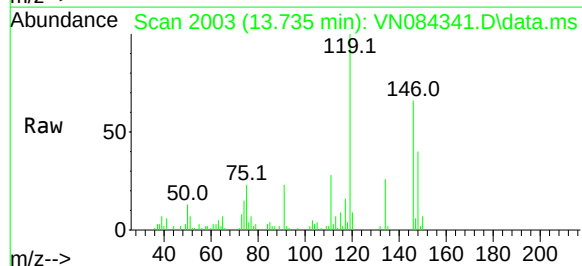
148 65.3 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#84

1,4-Dichlorobenzene

Concen: 4.932 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

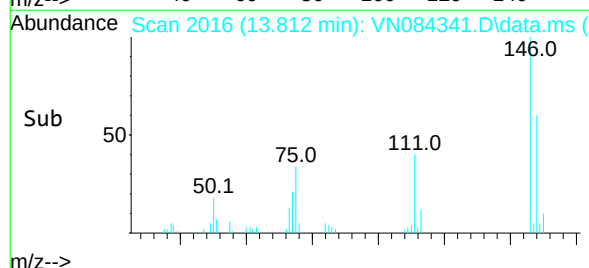
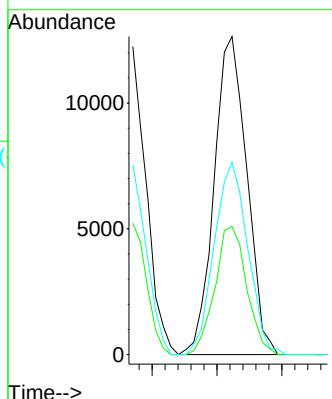
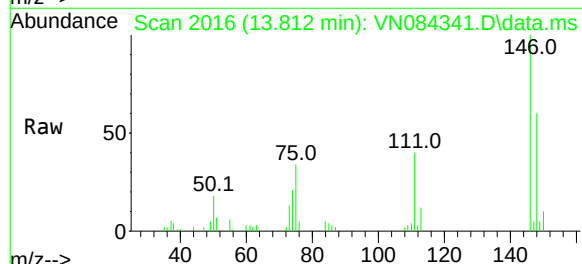
Tgt Ion:146 Resp: 22118

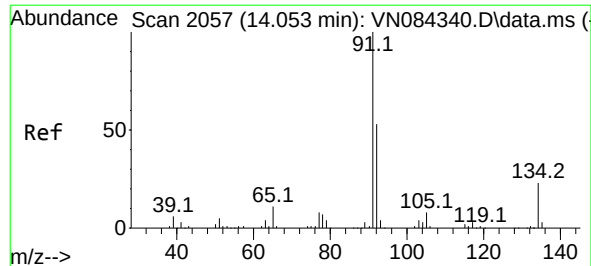
Ion Ratio Lower Upper

146 100

111 39.2 20.5 61.5

148 62.1 32.5 97.4





#85

n-Butylbenzene

Concen: 4.148 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

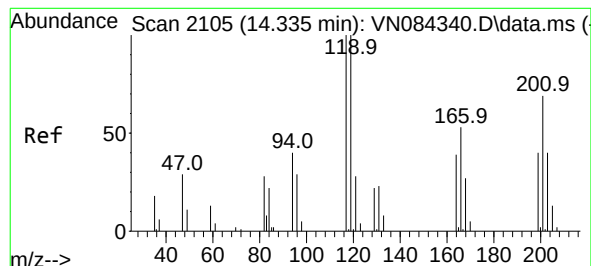
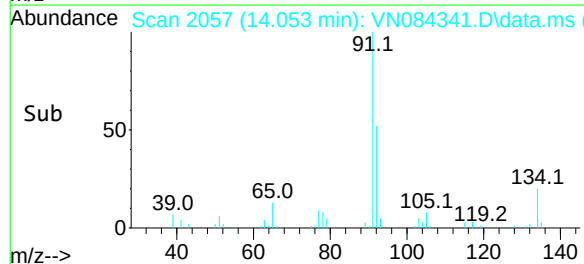
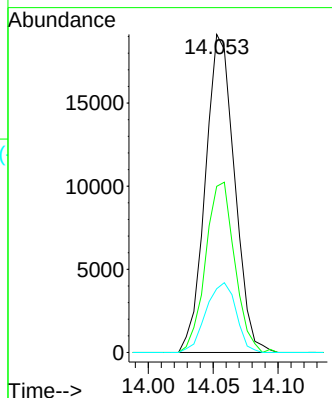
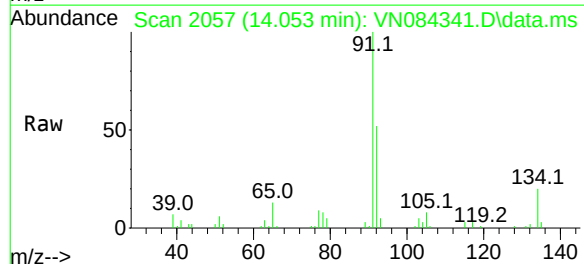
ClientSampleId :

VSTDICC005

Tgt Ion:	91	Resp:	29988
Ion	Ratio	Lower	Upper
91	100		
92	53.1	0.0	103.4
134	22.6	0.0	48.0

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#86

Hexachloroethane

Concen: 4.837 ug/l

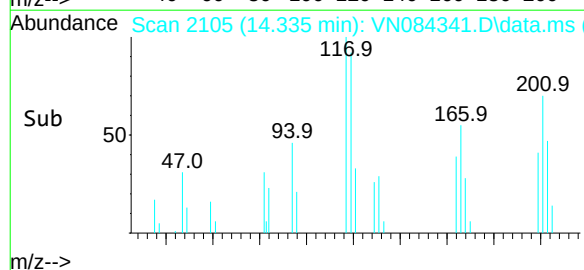
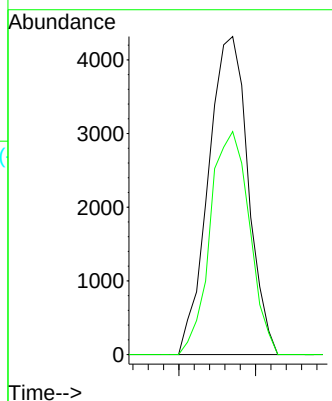
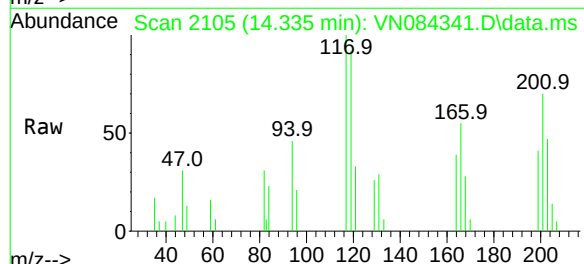
RT: 14.335 min Scan# 2105

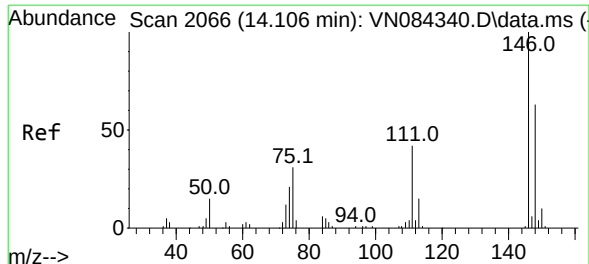
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	117	Resp:	7779
Ion	Ratio	Lower	Upper
117	100		
201	69.0	33.9	101.6





#87

1,2-Dichlorobenzene

Concen: 4.820 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

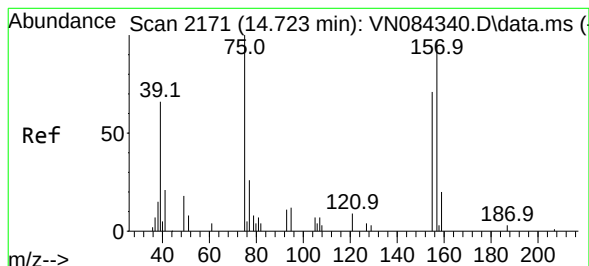
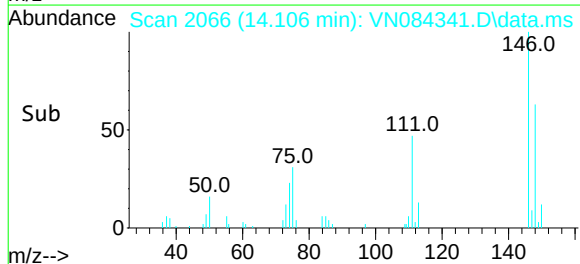
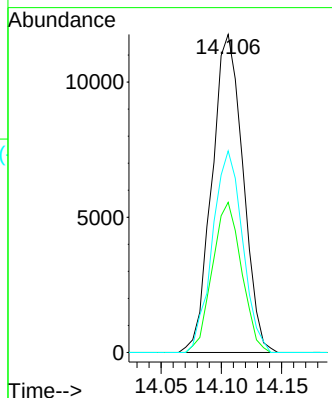
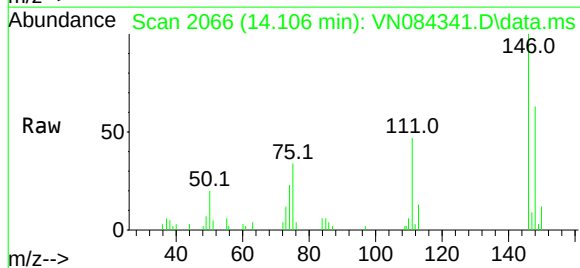
Tgt Ion:	146	Resp:	21047
Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.9	65.5
148	61.8	31.1	93.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 4.352 ug/l

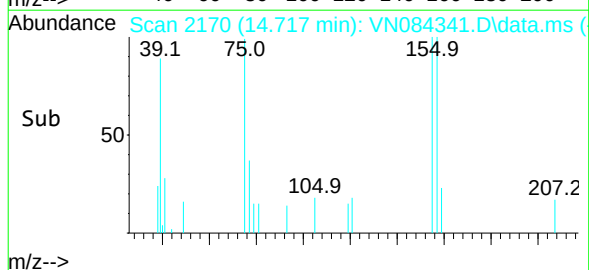
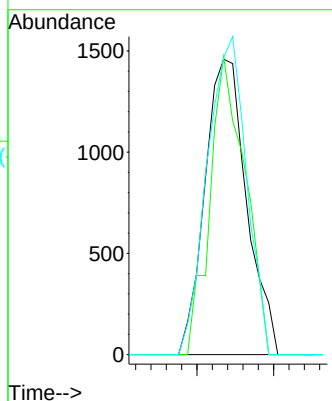
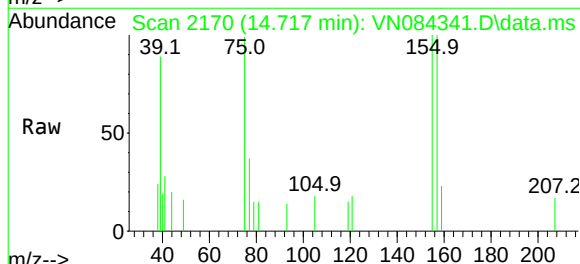
RT: 14.717 min Scan# 2170

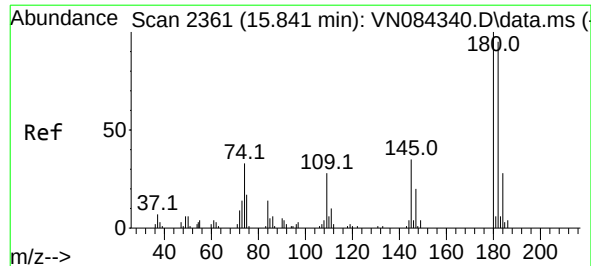
Delta R.T. -0.006 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	75	Resp:	2761
Ion	Ratio	Lower	Upper
75	100		
155	85.0	61.8	92.8
157	101.1	77.4	116.0





#89

1,2,4-Trichlorobenzene

Concen: 4.618 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

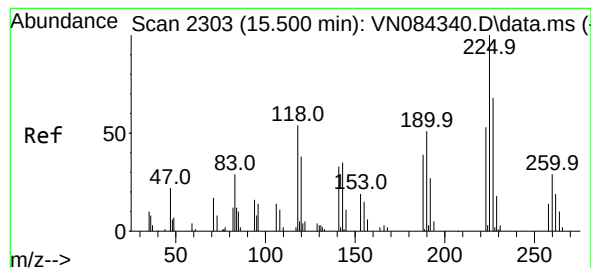
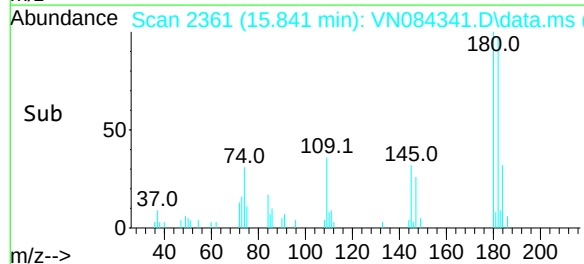
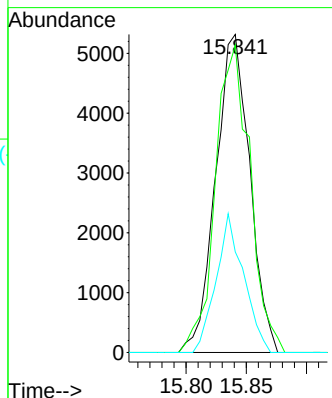
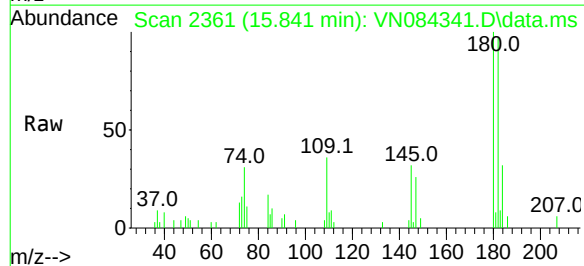
ClientSampleId :

VSTDIC005

Tgt Ion:	180	Resp:	10483
Ion Ratio	Lower	Upper	
180	100		
182	98.2	77.8	116.6
145	35.2	28.9	43.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#90

Hexachlorobutadiene

Concen: 5.904 ug/l

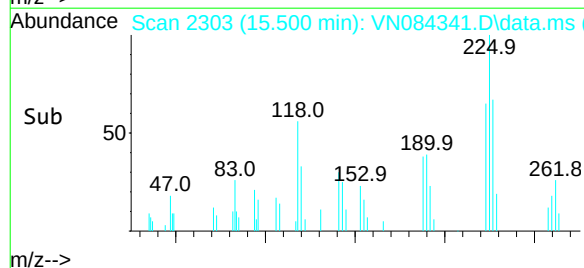
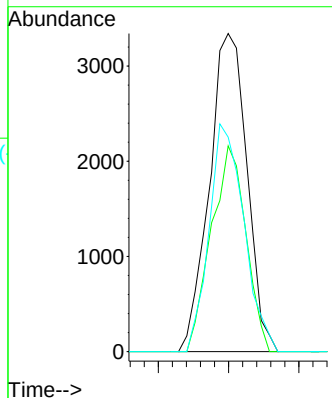
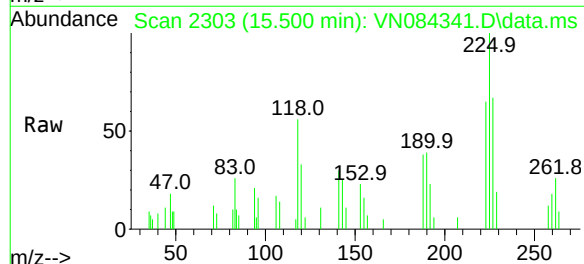
RT: 15.500 min Scan# 2303

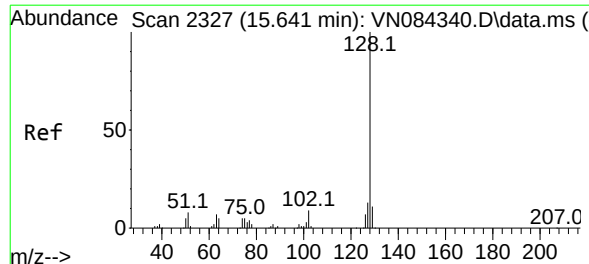
Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	225	Resp:	6201
Ion Ratio	Lower	Upper	
225	100		
223	59.6	0.0	124.0
227	66.3	0.0	130.8





#91

Naphthalene

Concen: 3.998 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Instrument :

MSVOA_N

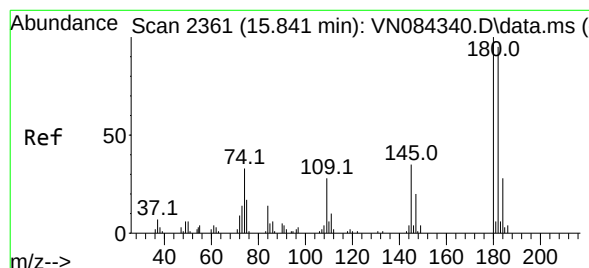
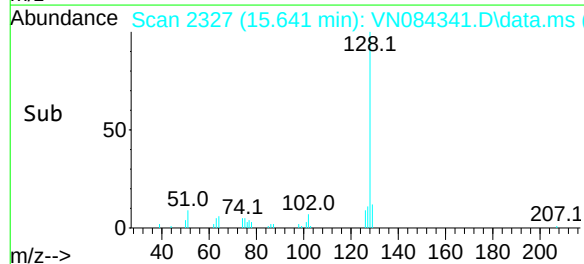
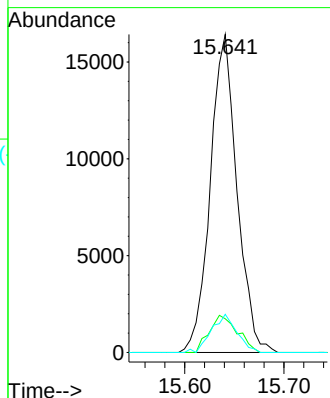
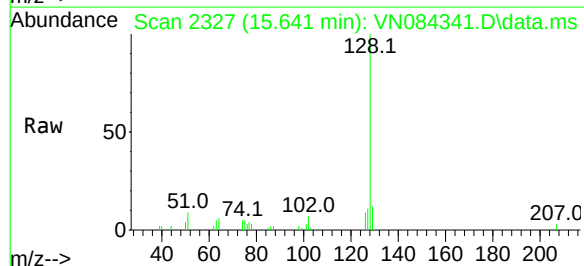
ClientSampleId :

VSTDICC005

Tgt Ion:	128	Resp:	30757
Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.3	15.5
129	11.3	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 4.618 ug/l

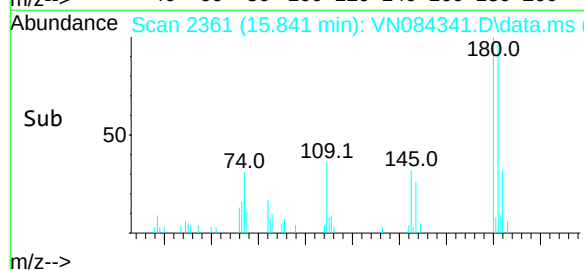
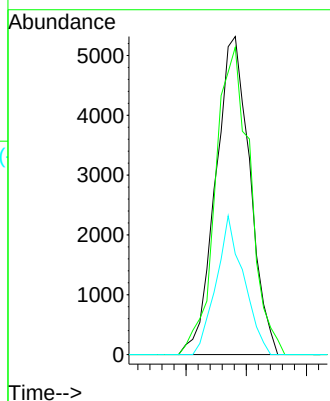
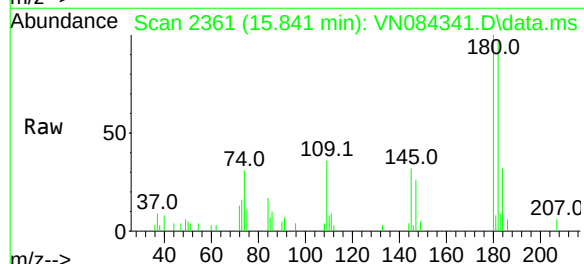
RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN084341.D

Acq: 08 Oct 2024 11:19

Tgt Ion:	180	Resp:	10483
Ion	Ratio	Lower	Upper
180	100		
182	98.2	0.0	194.4
145	35.2	0.0	72.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084343.D
 Acq On : 08 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN100824

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:27:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	35827	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	193781	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	180191	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	86558	30.009	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.033%			
60) 4-Bromofluorobenzene	12.847	95	91549	30.784	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.600%			
63) Toluene-d8	10.565	98	253573	30.377	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.267%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	43254	19.774	ug/l	99
3) Chloromethane	2.365	50	49667	19.953	ug/l	98
4) Vinyl Chloride	2.512	62	49435	20.252	ug/l	99
5) Bromomethane	2.959	94	31882	19.713	ug/l	93
6) Chloroethane	3.118	64	32723	20.448	ug/l	92
7) Trichlorofluoromethane	3.500	101	77185	19.412	ug/l	91
8) Diethyl Ether	3.965	74	28565	19.540	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	45902	20.532	ug/l	98
10) 1,1-Dichloroethene	4.342	96	43131	19.334	ug/l	84
11) Methyl Iodide	4.594	142	56446	19.255	ug/l	99
12) Methyl Acetate	5.030	43	52991	18.975	ug/l	99
13) Acrolein	4.183	56	48906	94.270	ug/l	99
14) Acrylonitrile	5.718	53	116456	92.817	ug/l	98
15) Acetone	4.430	58	39824	111.112	ug/l	100
16) Carbon Disulfide	4.712	76	126253	19.006	ug/l	99
17) Allyl chloride	5.024	41	68924	19.060	ug/l	86
18) Methylene Chloride	5.271	84	50598	20.135	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	45883	19.434	ug/l	98
20) Diisopropyl ether	6.677	45	158301	20.360	ug/l	97
21) 1,1-Dichloroethane	6.565	63	88993	19.948	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	54789	19.943	ug/l	100
23) tert-Butyl Alcohol	5.524	59	43150	89.659	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	146831	19.696	ug/l #	86
25) Chloroform	7.965	83	91875	20.334	ug/l	98
26) Cyclohexane	8.253	56	70636	18.931	ug/l #	92
29) 1,1-Dichloropropene	8.371	75	63709	20.028	ug/l	99
30) 2-Butanone	7.483	43	170510	100.675	ug/l	99
31) 2,2-Dichloropropane	7.488	77	78528	21.007	ug/l #	82
32) 1,1,1-Trichloroethane	8.165	97	83527	20.543	ug/l	99
33) Carbon Tetrachloride	8.365	117	70593	20.040	ug/l	97
34) Benzene	8.606	78	201095	20.195	ug/l	98
35) Methacrylonitrile	7.782	41	35261	19.515	ug/l	99
36) 1,2-Dichloroethane	8.671	62	67448	20.321	ug/l	99
37) Trichloroethene	9.353	130	46466	20.265	ug/l	92
38) Methylcyclohexane	9.600	83	69219	19.810	ug/l	98
39) 1,2-Dichloropropane	9.618	63	49546	20.404	ug/l	94
40) Dibromomethane	9.706	93	34353	20.242	ug/l	98
41) Bromodichloromethane	9.888	83	72371	20.087	ug/l	92
42) Vinyl Acetate	6.606	43	581959	98.798	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084343.D
 Acq On : 08 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN100824

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:27:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	63334m	18.961	ug/l	
44) Isopropyl Acetate	8.688	43	106167	19.419	ug/l	100
45) 1,4-Dioxane	9.700	88	17788	360.927	ug/l	96
46) Methyl methacrylate	9.682	41	51122	19.353	ug/l	97
47) n-amyl Acetate	12.494	43	94442	19.421	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	74857	20.107	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	80340	20.591	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	45700	20.034	ug/l	99
51) Ethyl methacrylate	10.871	69	73999	19.639	ug/l	97
52) 1,3-Dichloropropane	11.159	76	80053	20.070	ug/l	100
53) Dibromochloromethane	11.359	129	54490	20.221	ug/l	99
54) 1,2-Dibromoethane	11.470	107	45857	19.530	ug/l	95
55) 2-Chloroethyl vinyl ether	10.159	63	150677	88.171	ug/l	99
56) Bromoform	12.576	173	35946	20.113	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	326914	97.392	ug/l	99
59) 2-Hexanone	11.194	43	248144	99.486	ug/l	99
61) Tetrachloroethene	11.100	164	41736	20.477	ug/l	95
62) Toluene	10.629	91	216792	20.551	ug/l	98
64) Chlorobenzene	11.894	112	131028	19.960	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	45996	20.169	ug/l	100
66) Ethyl Benzene	11.965	91	229654	20.038	ug/l	95
67) m/p-Xylenes	12.070	106	179863	41.370	ug/l	98
68) o-Xylene	12.394	106	84107	20.070	ug/l	99
69) Styrene	12.412	104	144766	20.124	ug/l	100
70) Isopropylbenzene	12.694	105	213142	19.923	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	65966	19.932	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	63849m	22.527	ug/l	
73) Bromobenzene	12.976	156	51798	19.992	ug/l	98
74) n-propylbenzene	13.035	91	260928	20.467	ug/l	100
75) 2-Chlorotoluene	13.123	91	158449	20.001	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	181926	20.196	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22878	18.889	ug/l	98
78) 4-Chlorotoluene	13.217	91	161150	20.008	ug/l	99
79) tert-butylbenzene	13.435	119	155215	20.197	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	186446	20.399	ug/l	99
81) sec-Butylbenzene	13.617	105	212421	20.077	ug/l	99
82) p-Isopropyltoluene	13.729	119	178265	20.018	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	96137	19.955	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	92714	19.380	ug/l	98
85) n-Butylbenzene	14.053	91	148207	19.215	ug/l	99
86) Hexachloroethane	14.335	117	34925	20.356	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	91342	19.610	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12734	18.815	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	43683	18.038	ug/l	99
90) Hexachlorobutadiene	15.500	225	21663	19.335	ug/l	98
91) Naphthalene	15.641	128	137791	16.790	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	43683	18.038	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
Data File : VN084343.D
Acq On : 08 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

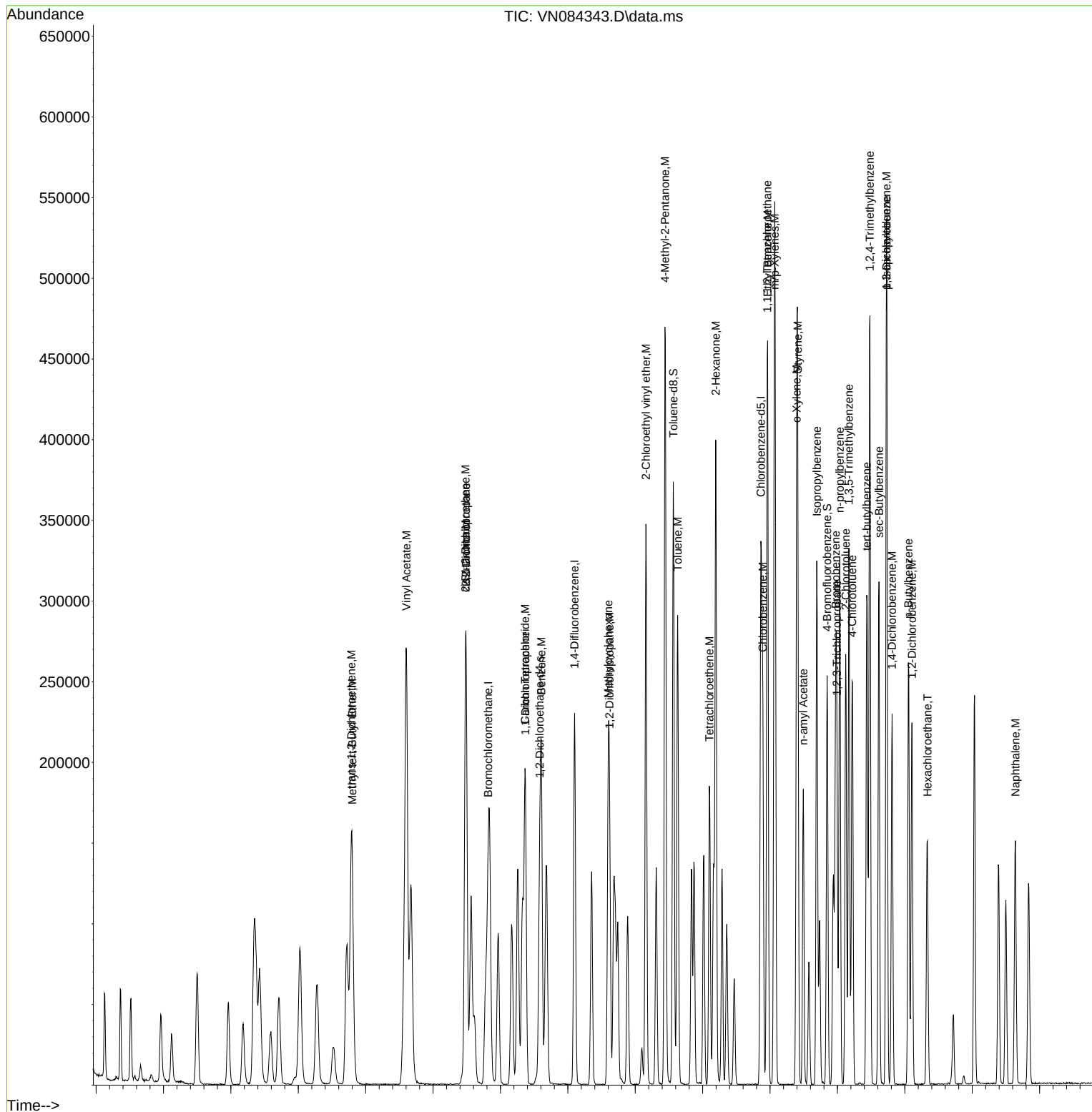
Manual Integrations

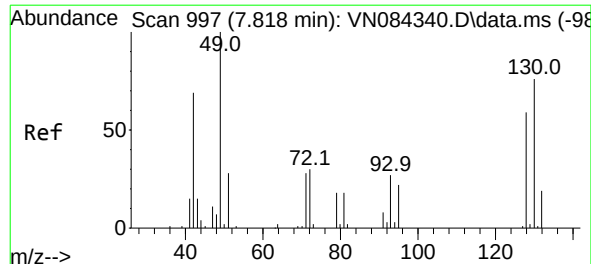
APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024

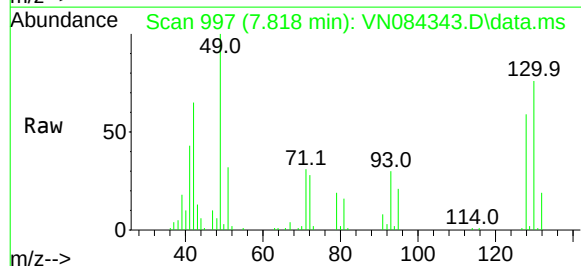
Quant Time: Oct 09 02:27:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:21:08 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN084343.D
Acq: 08 Oct 2024 12:09

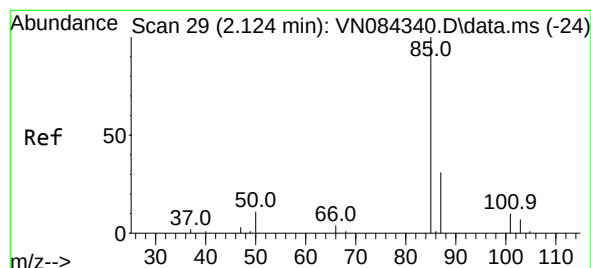
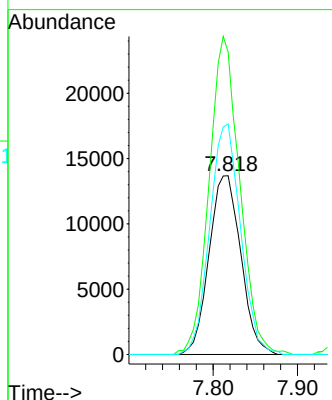
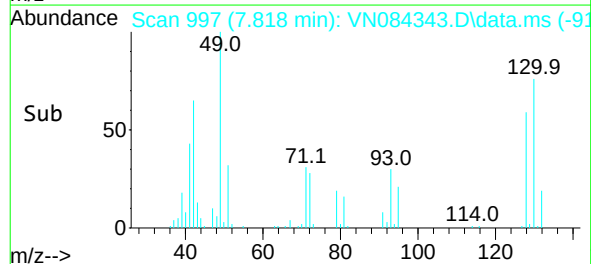
Instrument :
MSVOA_N
ClientSampleId :
ICVVN100824



Tgt Ion: 128 Resp: 35827
Ion Ratio Lower Upper
128 100
49 171.2 0.0 430.0
130 125.2 0.0 329.8

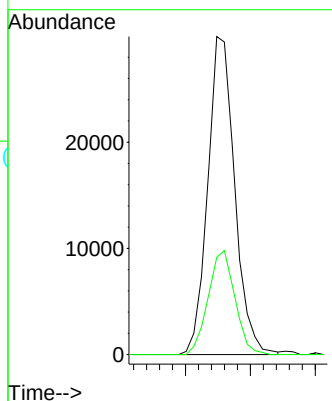
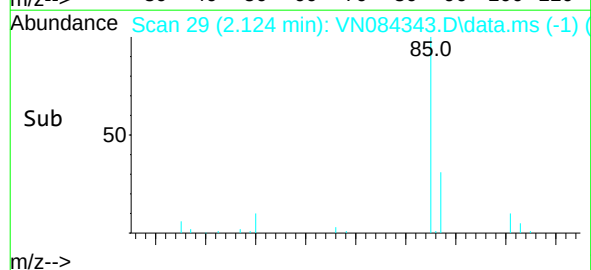
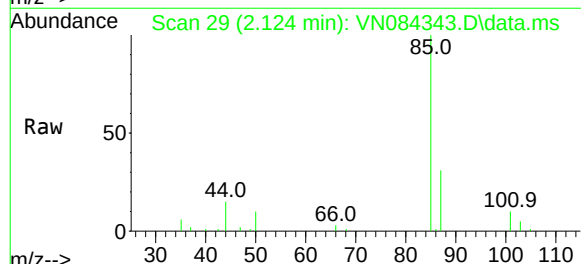
Manual Integrations
APPROVED

Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024

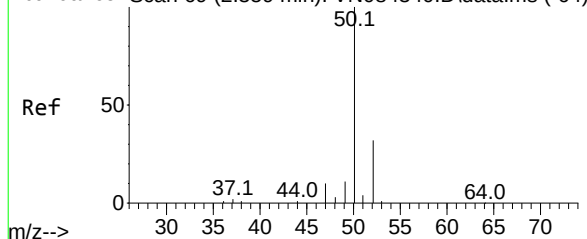


#2
Dichlorodifluoromethane
Concen: 19.774 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084343.D
Acq: 08 Oct 2024 12:09

Tgt Ion: 85 Resp: 43254
Ion Ratio Lower Upper
85 100
87 30.6 15.4 46.4



Abundance Scan 69 (2.359 min): VN084340.D\data.ms (-64)



#3

Chloromethane

Concen: 19.953 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

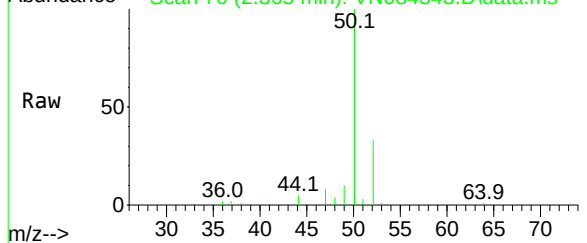
Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Abundance Scan 70 (2.365 min): VN084343.D\data.ms



Tgt Ion: 50 Resp: 49667

Ion Ratio Lower Upper

50 100

52 33.2 25.8 38.6

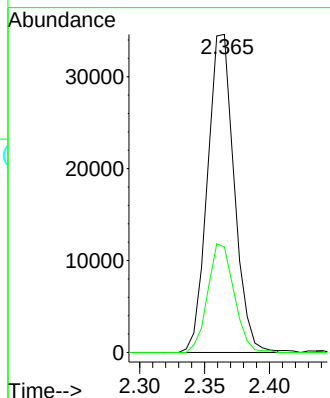
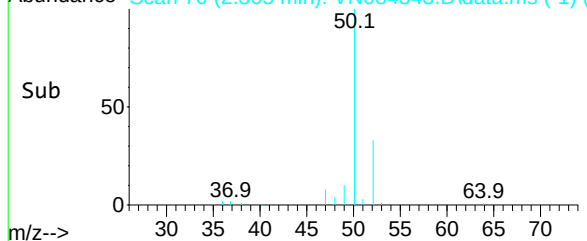
Manual Integrations

APPROVED

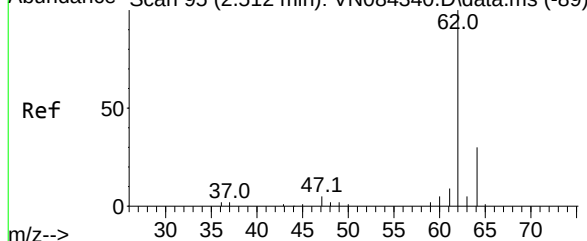
Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024

Abundance Scan 70 (2.365 min): VN084343.D\data.ms (-1)



Abundance Scan 95 (2.512 min): VN084340.D\data.ms (-89)



#4

Vinyl Chloride

Concen: 20.252 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

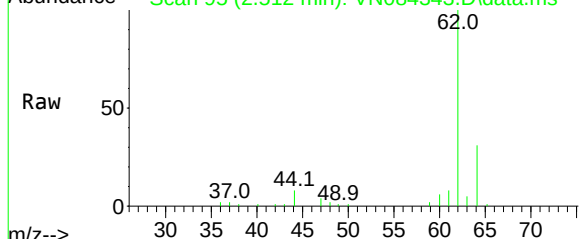
Tgt Ion: 62 Resp: 49435

Ion Ratio Lower Upper

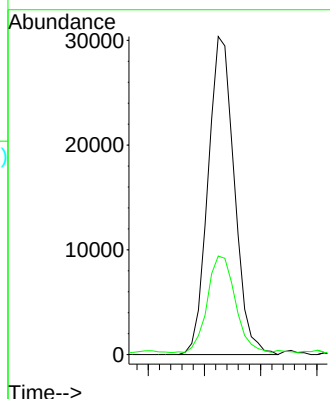
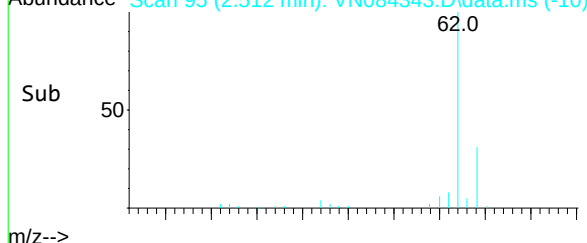
62 100

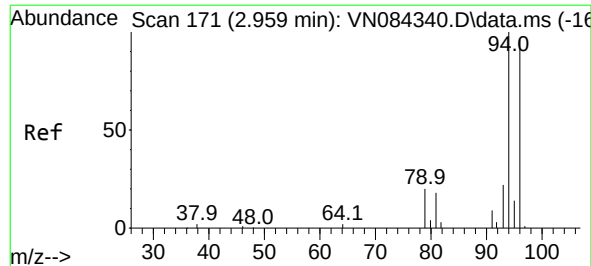
64 30.1 24.3 36.5

Abundance Scan 95 (2.512 min): VN084343.D\data.ms



Abundance Scan 95 (2.512 min): VN084343.D\data.ms (-10)





#5

Bromomethane

Concen: 19.713 ug/l

RT: 2.959 min Scan# 171

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 94 Resp: 31882

Ion Ratio Lower Upper

94 100

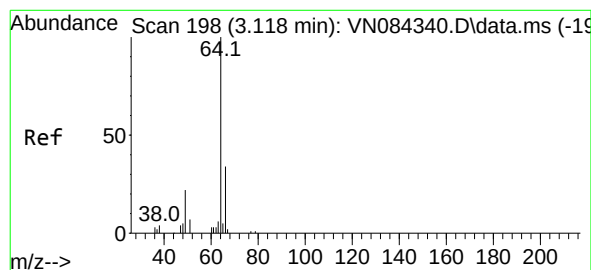
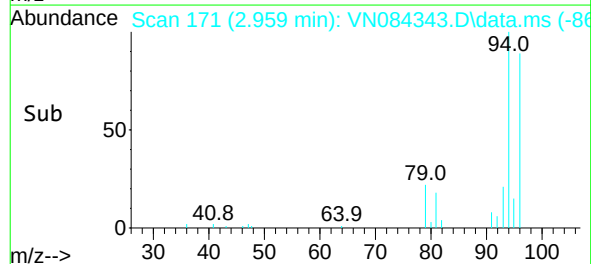
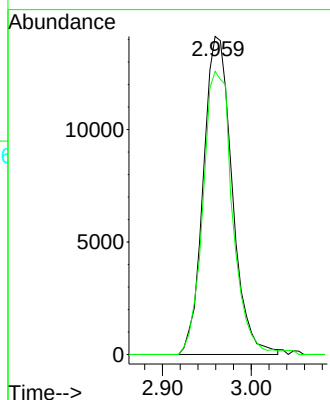
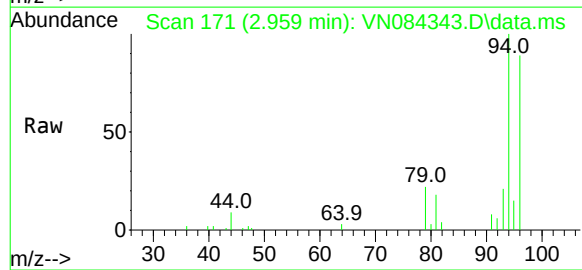
96 89.0 76.7 115.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#6

Chloroethane

Concen: 20.448 ug/l

RT: 3.118 min Scan# 198

Delta R.T. -0.000 min

Lab File: VN084343.D

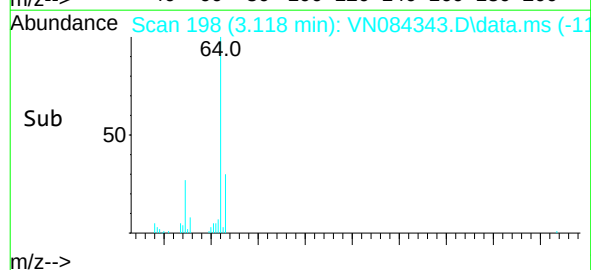
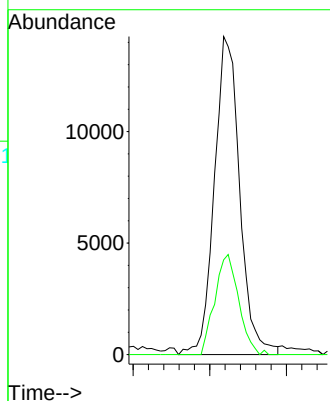
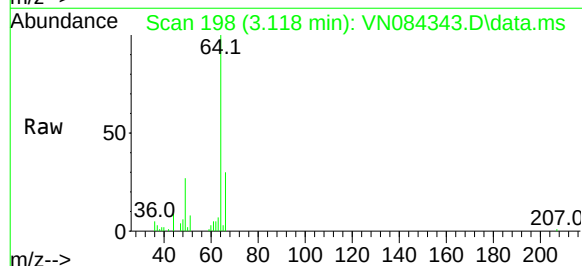
Acq: 08 Oct 2024 12:09

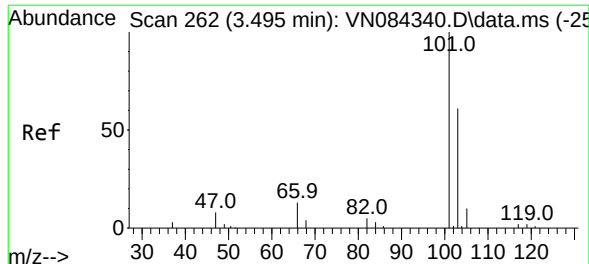
Tgt Ion: 64 Resp: 32723

Ion Ratio Lower Upper

64 100

66 29.8 27.7 41.5





#7

Trichlorofluoromethane

Concen: 19.412 ug/l

RT: 3.500 min Scan# 262

Delta R.T. 0.006 min

Lab File: VN084343.D

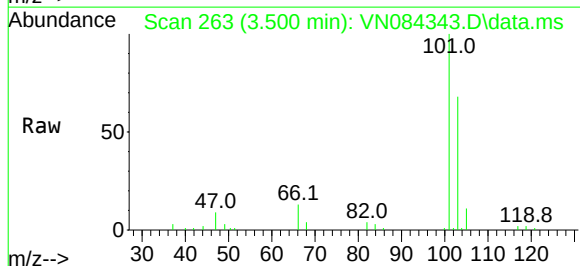
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824



Tgt Ion:101 Resp: 77185

Ion Ratio Lower Upper

101 100

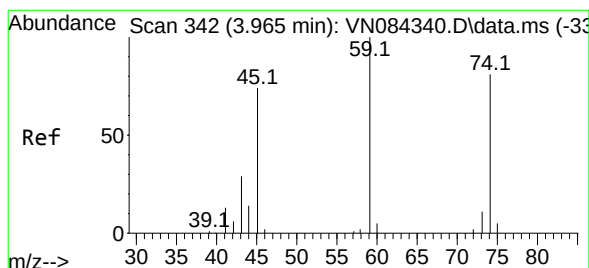
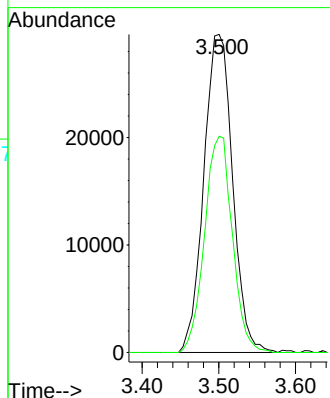
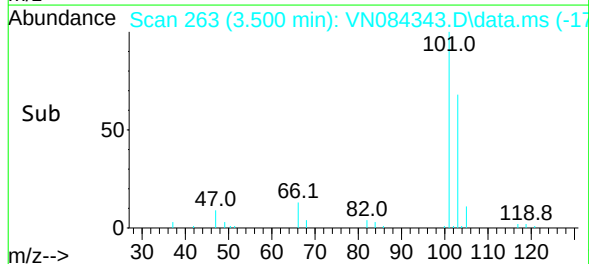
103 68.0 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#8

Diethyl Ether

Concen: 19.540 ug/l

RT: 3.965 min Scan# 342

Delta R.T. -0.000 min

Lab File: VN084343.D

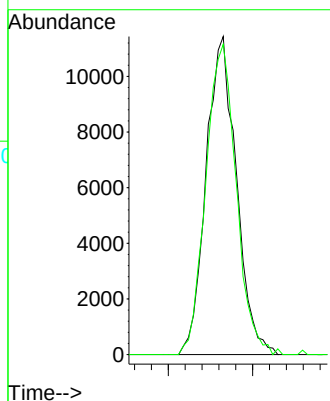
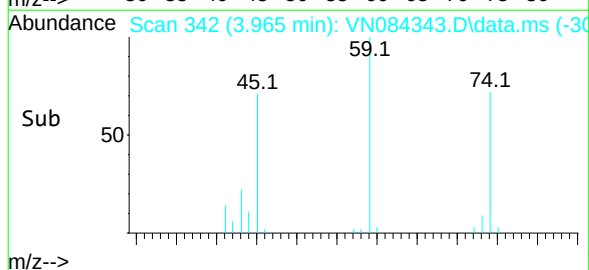
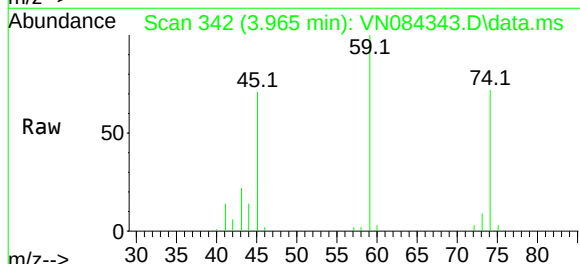
Acq: 08 Oct 2024 12:09

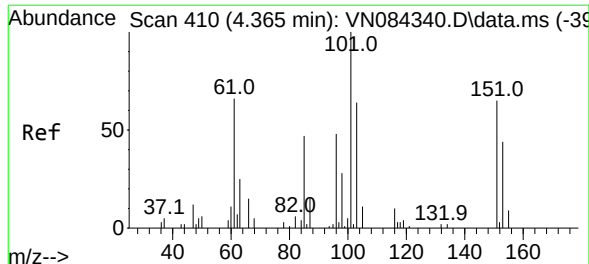
Tgt Ion: 74 Resp: 28565

Ion Ratio Lower Upper

74 100

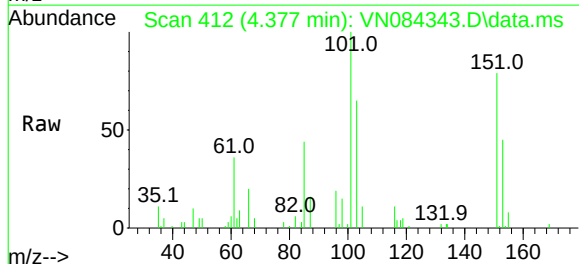
45 97.7 19.2 173.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.532 ug/l
RT: 4.377 min Scan# 410
Delta R.T. 0.012 min
Lab File: VN084343.D
Acq: 08 Oct 2024 12:09

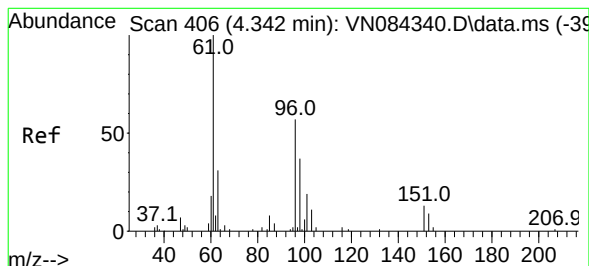
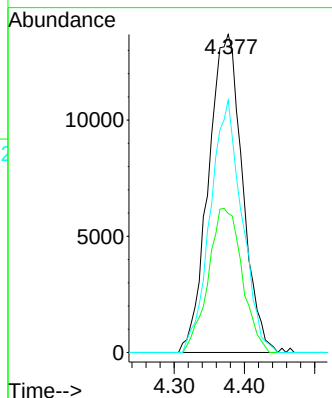
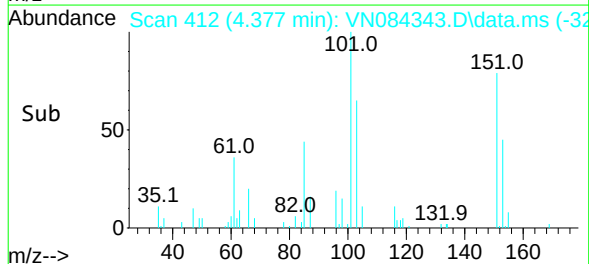
Instrument :
MSVOA_N
ClientSampleId :
ICVVN100824



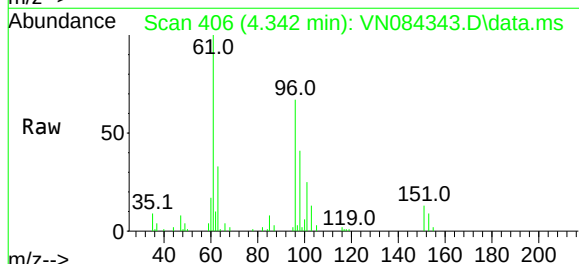
Tgt Ion: 101 Resp: 45902
Ion Ratio Lower Upper
101 100
85 45.1 0.0 93.6
151 74.2 0.0 151.8

Manual Integrations
APPROVED

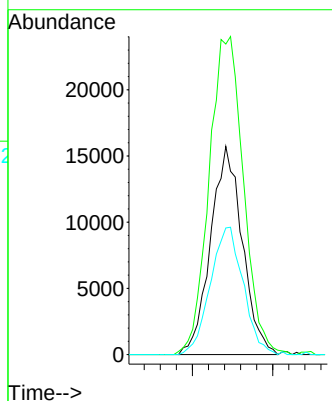
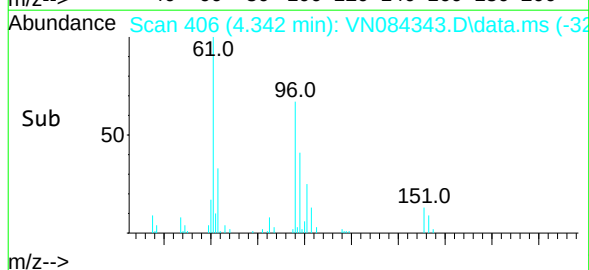
Reviewed By : John Carlone 10/09/2024
Supervised By : Mahesh Dadoda 10/09/2024

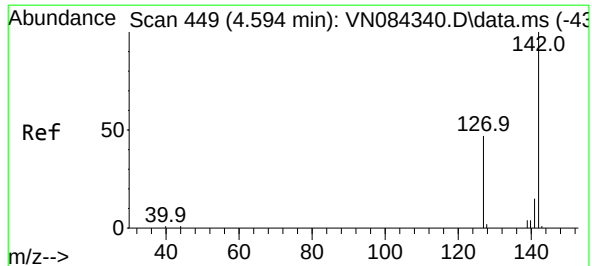


#10
1,1-Dichloroethene
Concen: 19.334 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN084343.D
Acq: 08 Oct 2024 12:09



Tgt Ion: 96 Resp: 43131
Ion Ratio Lower Upper
96 100
61 147.7 140.8 211.2
98 60.8 52.2 78.2





#11

Methyl Iodide

Concen: 19.255 ug/l

RT: 4.594 min Scan# 449

Delta R.T. 0.000 min

Lab File: VN084343.D

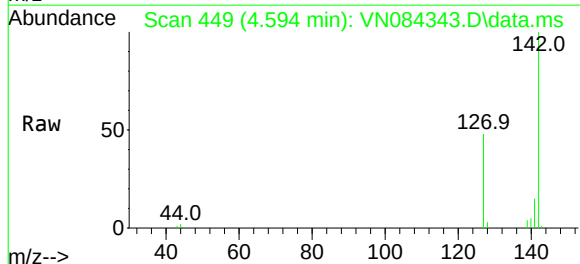
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

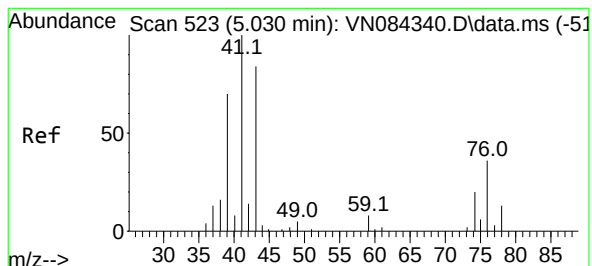
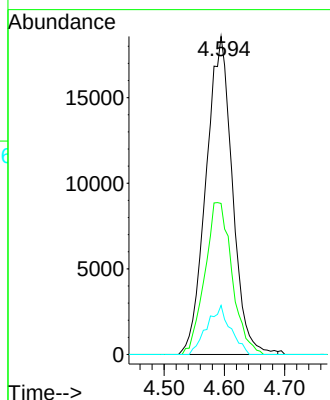
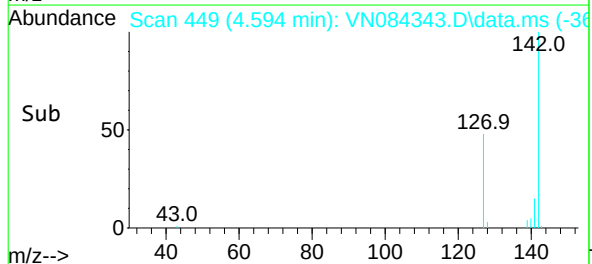
ICVVN100824



Tgt Ion:	142	Resp:	56446
Ion	Ratio	Lower	Upper
142	100		
127	47.7	23.8	71.4
141	15.5	7.4	22.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#12

Methyl Acetate

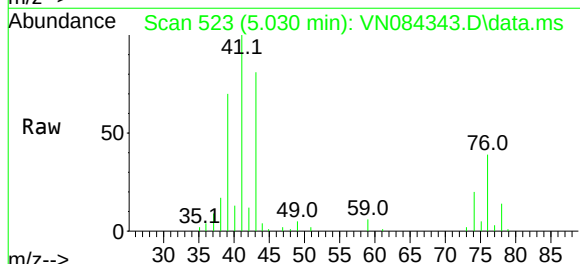
Concen: 18.975 ug/l

RT: 5.030 min Scan# 523

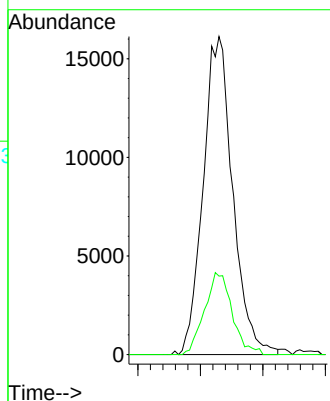
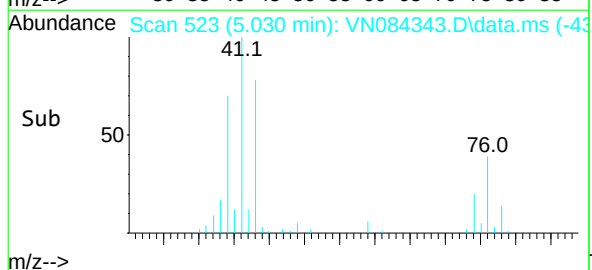
Delta R.T. 0.000 min

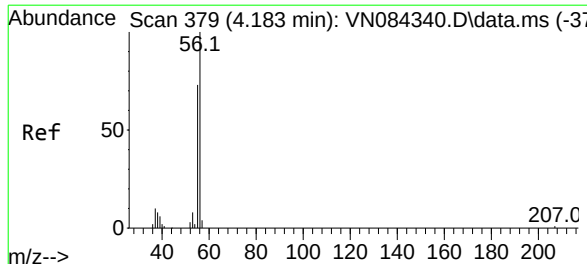
Lab File: VN084343.D

Acq: 08 Oct 2024 12:09



Tgt Ion:	43	Resp:	52991
Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.4	29.2





#13

Acrolein

Concen: 94.270 ug/l

RT: 4.183 min Scan# 37

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 56 Resp: 48906

Ion Ratio Lower Upper

56 100

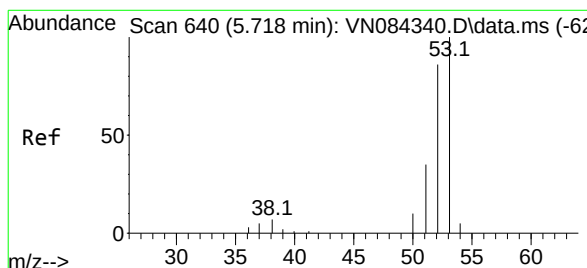
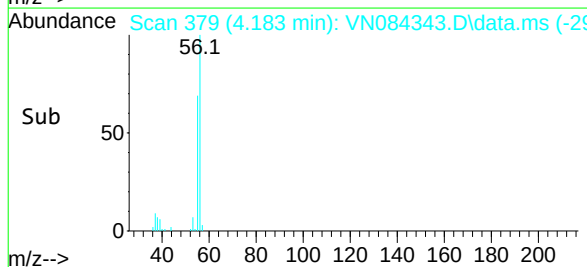
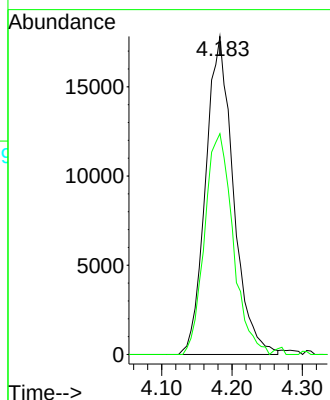
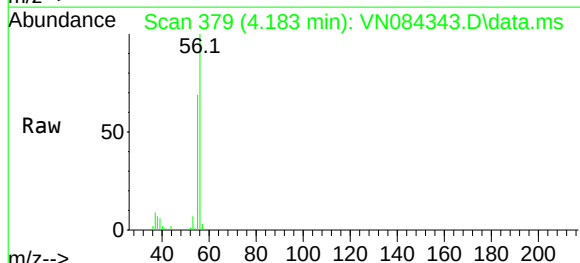
55 70.9 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#14

Acrylonitrile

Concen: 92.817 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

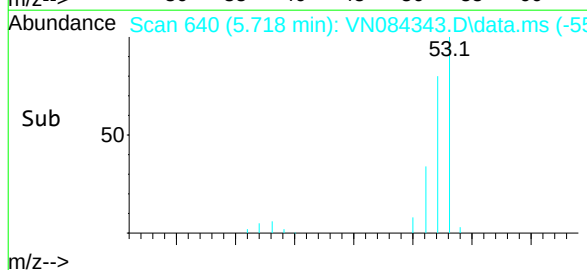
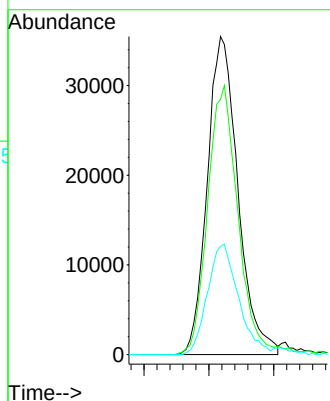
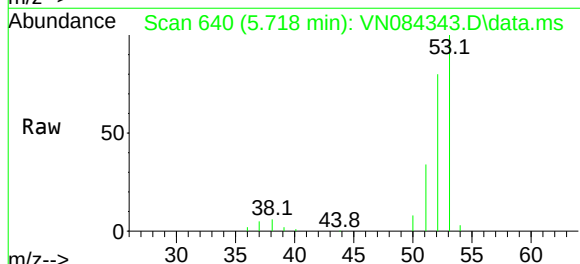
Tgt Ion: 53 Resp: 116456

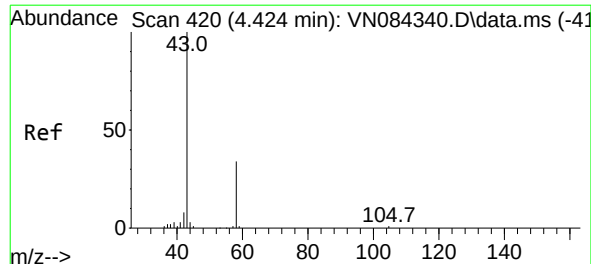
Ion Ratio Lower Upper

53 100

52 82.6 40.4 121.2

51 35.0 17.8 53.4





#15

Acetone

Concen: 111.112 ug/l

RT: 4.430 min Scan# 42

Delta R.T. 0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 58 Resp: 39824

Ion Ratio Lower Upper

58 100

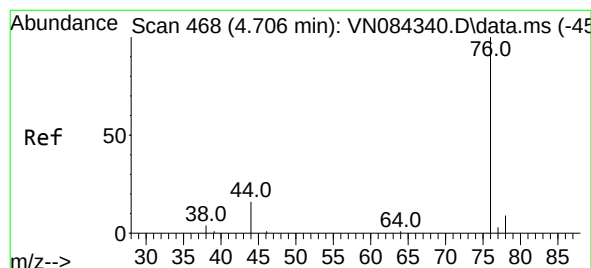
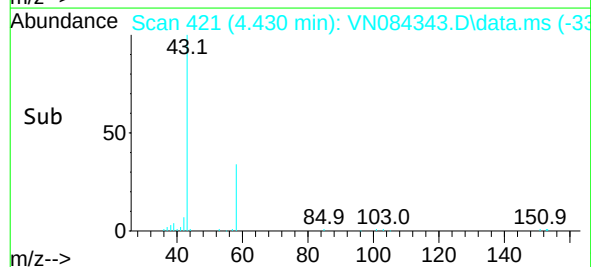
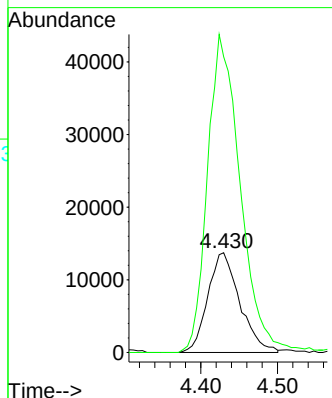
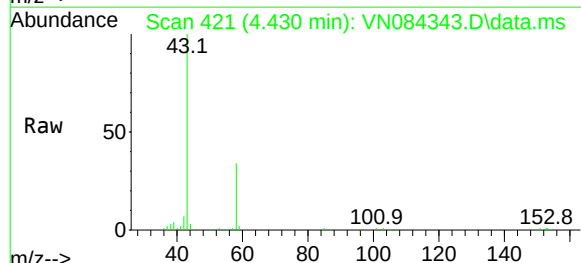
43 296.4 237.5 356.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#16

Carbon Disulfide

Concen: 19.006 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN084343.D

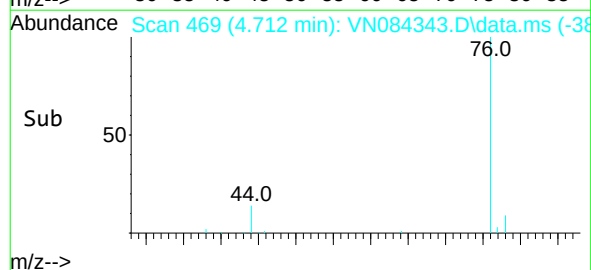
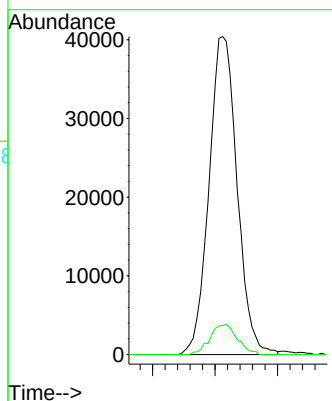
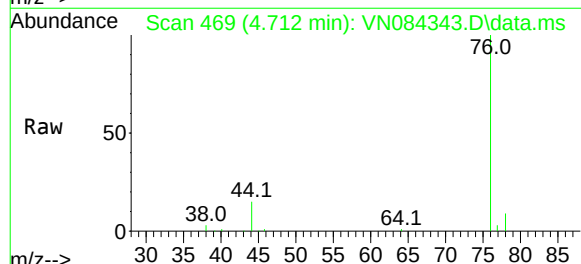
Acq: 08 Oct 2024 12:09

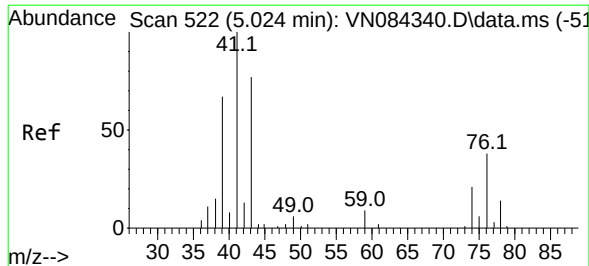
Tgt Ion: 76 Resp: 126253

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 19.060 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

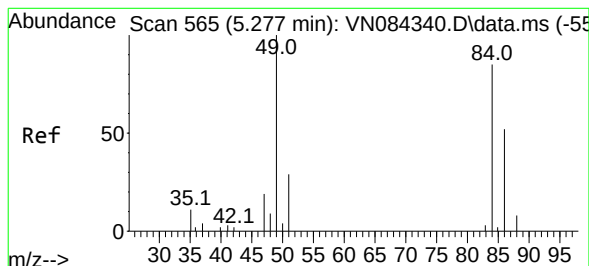
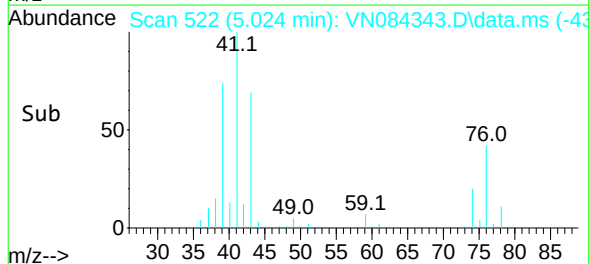
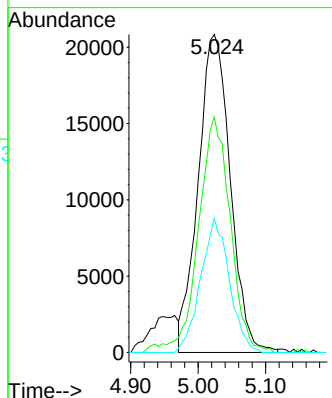
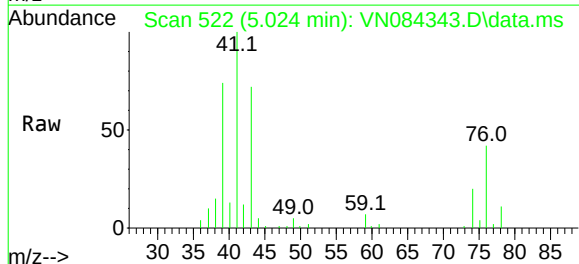
Tgt Ion:	41	Resp:	68924
Ion	Ratio	Lower	Upper
41	100		
39	74.8	31.4	94.3
76	42.5	17.8	53.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#18

Methylene Chloride

Concen: 20.135 ug/l

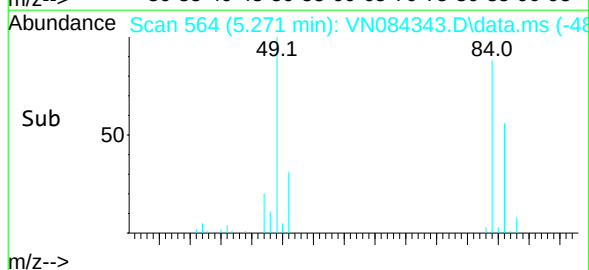
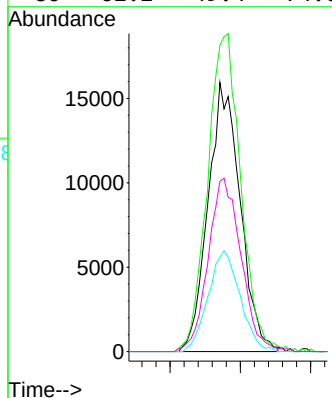
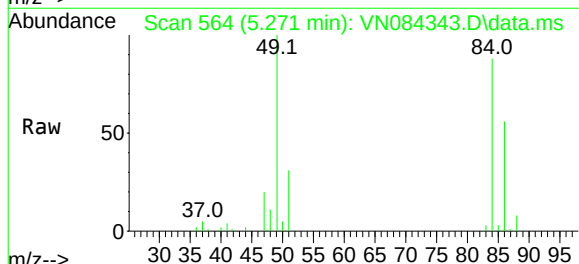
RT: 5.271 min Scan# 564

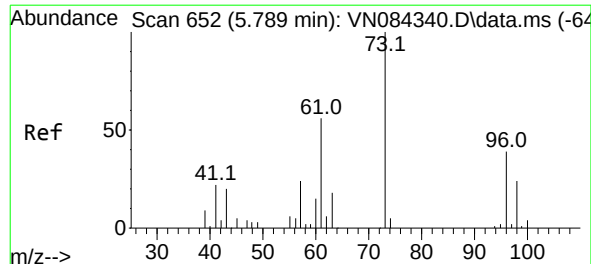
Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	84	Resp:	50598
Ion	Ratio	Lower	Upper
84	100		
49	112.6	94.6	142.0
51	35.0	27.3	40.9
86	62.2	49.4	74.0





#19

trans-1,2-Dichloroethene

Concen: 19.434 ug/l

RT: 5.789 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 96 Resp: 45883

Ion Ratio Lower Upper

96 100

61 146.0 115.8 173.6

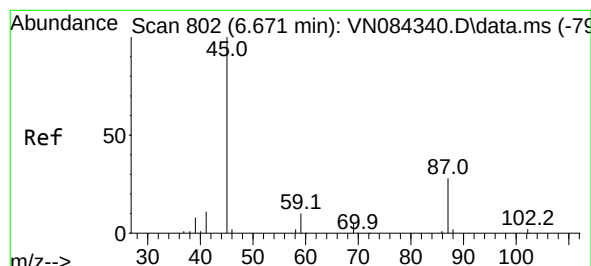
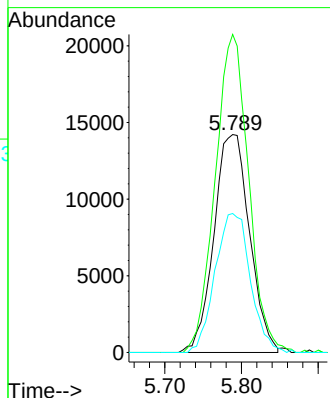
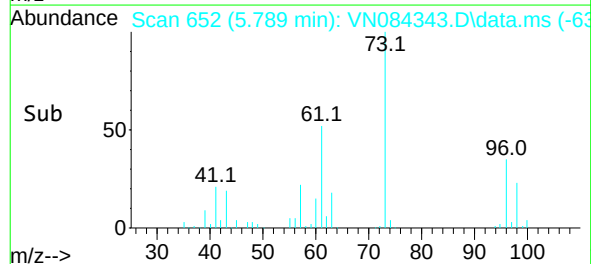
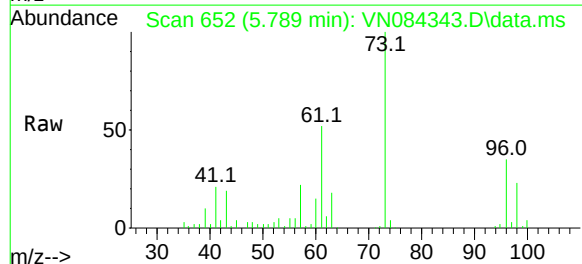
98 63.8 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#20

Diisopropyl ether

Concen: 20.360 ug/l

RT: 6.677 min Scan# 803

Delta R.T. 0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion: 45 Resp: 158301

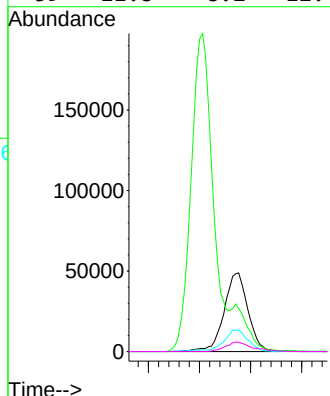
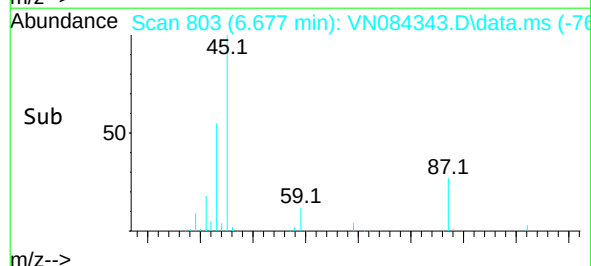
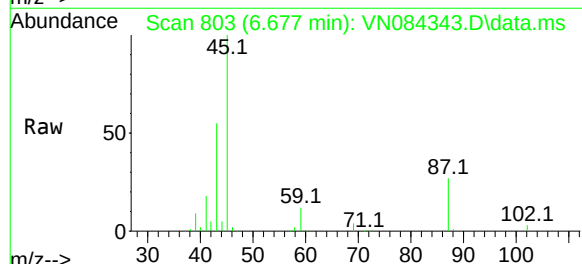
Ion Ratio Lower Upper

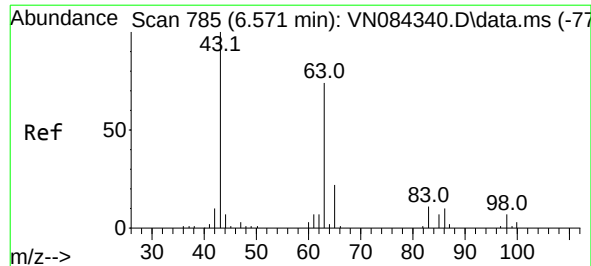
45 100

43 53.3 43.7 65.5

87 26.9 23.1 34.7

59 11.8 8.2 12.4





#21

1,1-Dichloroethane

Concen: 19.948 ug/l

RT: 6.565 min Scan# 78

Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

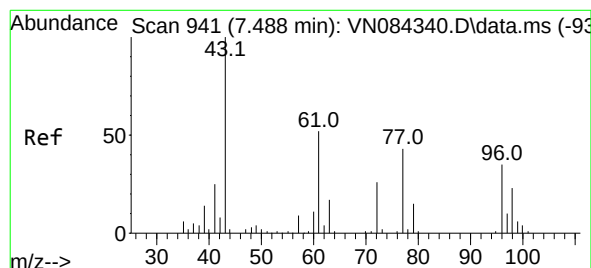
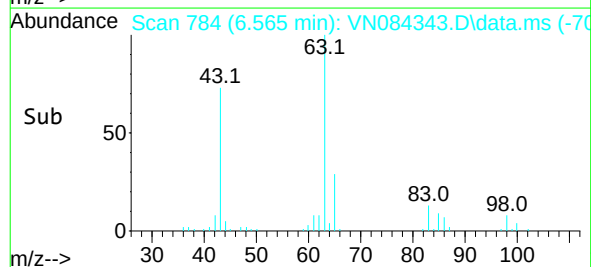
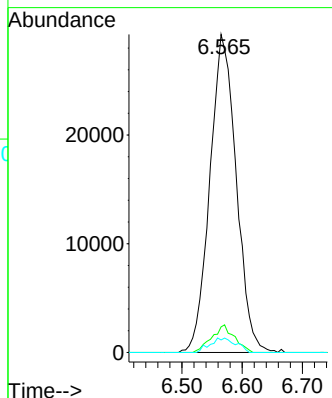
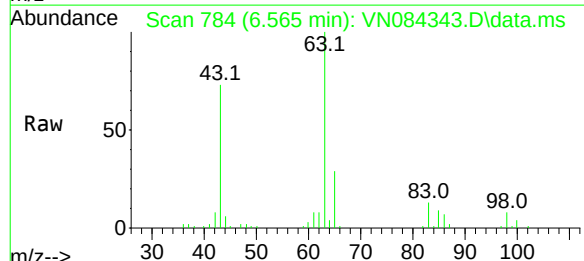
ICVVN100824

Tgt Ion:	63	Resp:	88993
Ion	Ratio	Lower	Upper
63	100		
98	8.0	4.5	13.4
100	3.9	2.1	6.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#22

cis-1,2-Dichloroethene

Concen: 19.943 ug/l

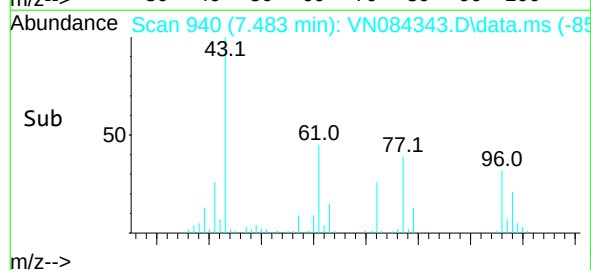
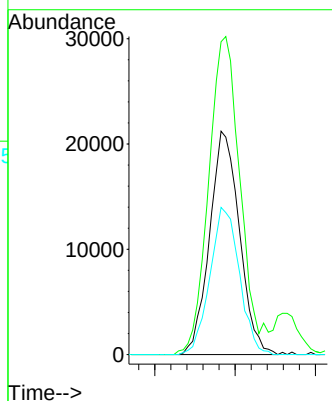
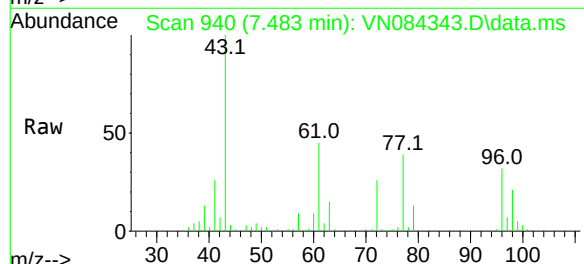
RT: 7.483 min Scan# 940

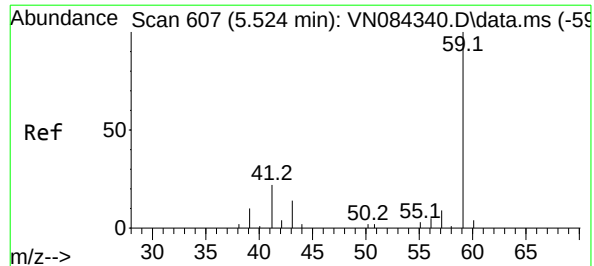
Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	96	Resp:	54789
Ion	Ratio	Lower	Upper
96	100		
61	147.5	118.0	177.0
98	64.9	51.8	77.8





#23

tert-Butyl Alcohol

Concen: 89.659 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 59 Resp: 43150

Ion Ratio Lower Upper

59 100

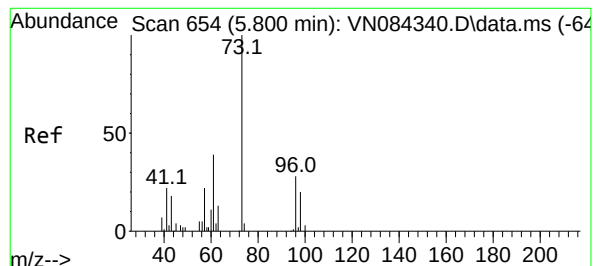
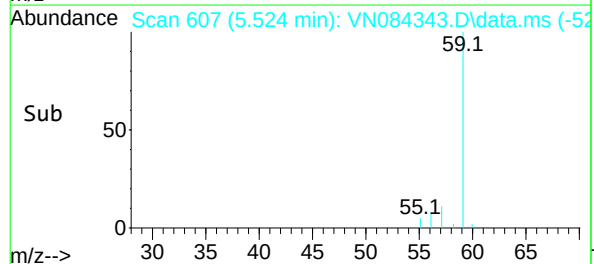
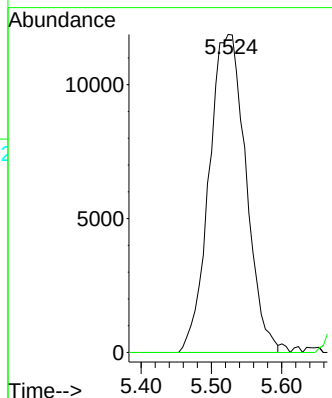
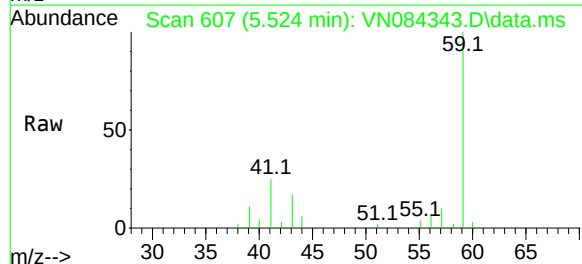
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#24

Methyl tert-Butyl Ether

Concen: 19.696 ug/l

RT: 5.800 min Scan# 654

Delta R.T. 0.000 min

Lab File: VN084343.D

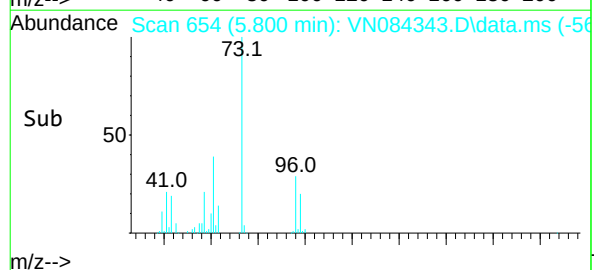
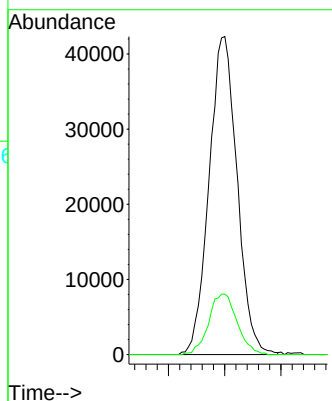
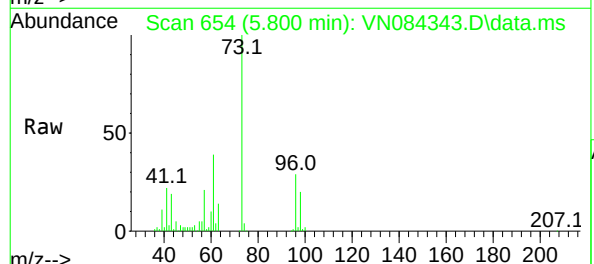
Acq: 08 Oct 2024 12:09

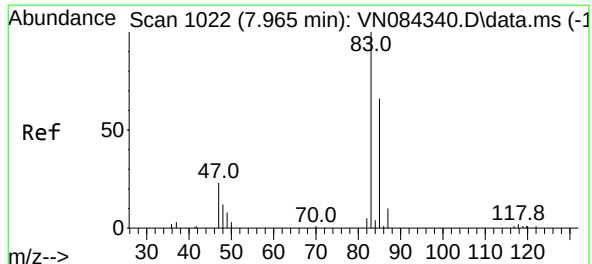
Tgt Ion: 73 Resp: 146831

Ion Ratio Lower Upper

73 100

43 19.2 10.9 16.3#





#25

Chloroform

Concen: 20.334 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN084343.D

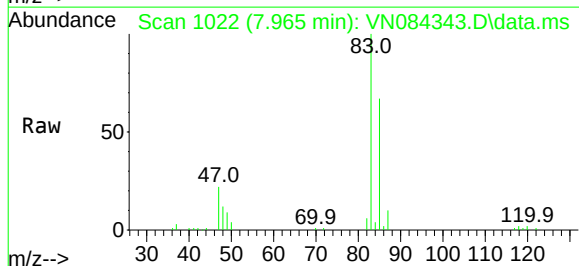
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824



Tgt Ion: 83 Resp: 91875

Ion Ratio Lower Upper

83 100

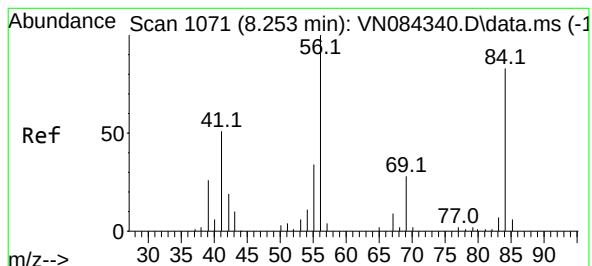
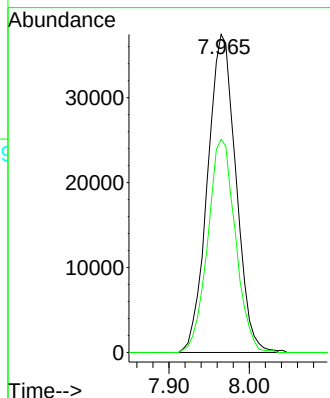
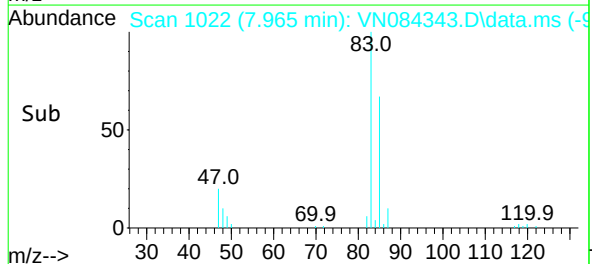
85 67.0 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#26

Cyclohexane

Concen: 18.931 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

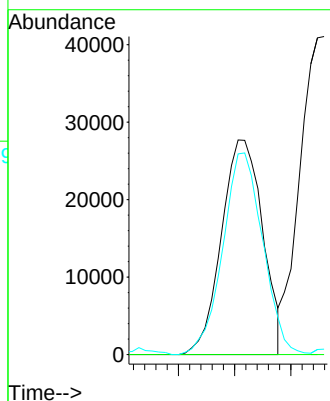
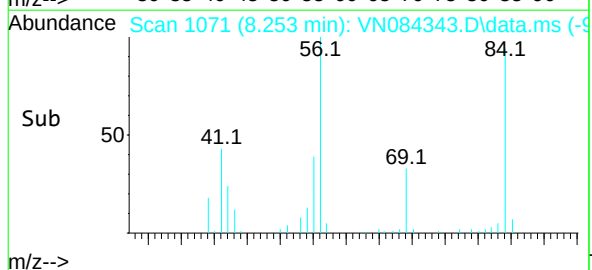
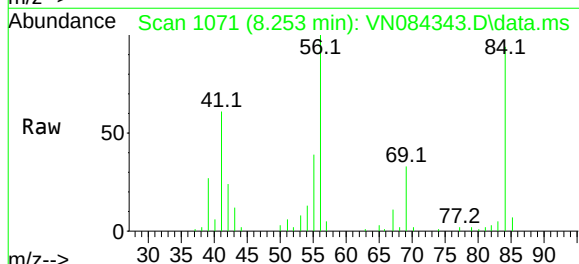
Tgt Ion: 56 Resp: 70636

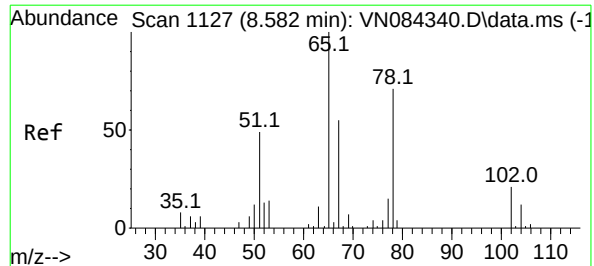
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 91.3 67.0 100.6





#27

1,2-Dichloroethane-d4

Concen: 30.009 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 65 Resp: 86558

Ion Ratio Lower Upper

65 100

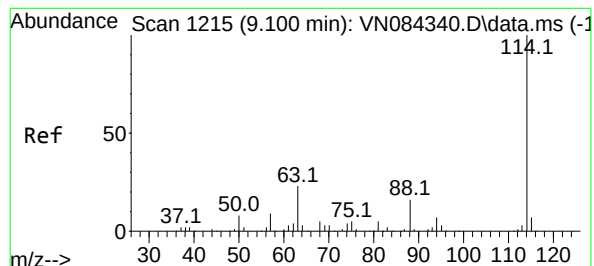
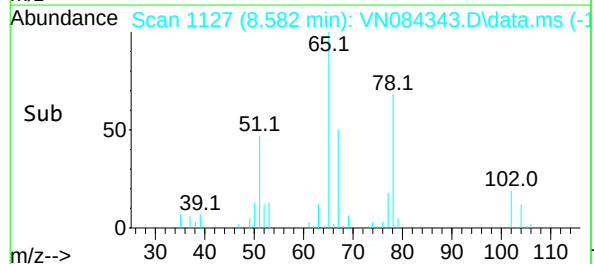
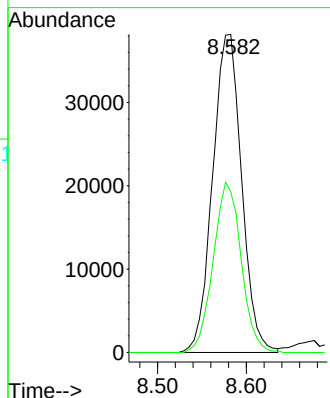
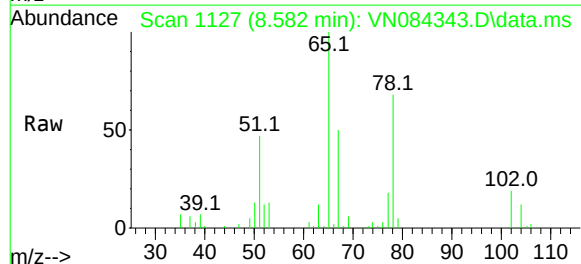
67 51.6 41.5 62.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

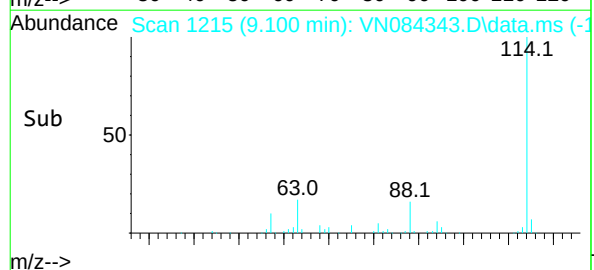
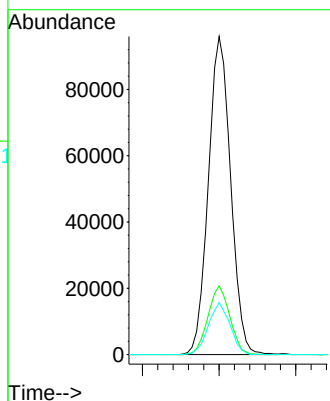
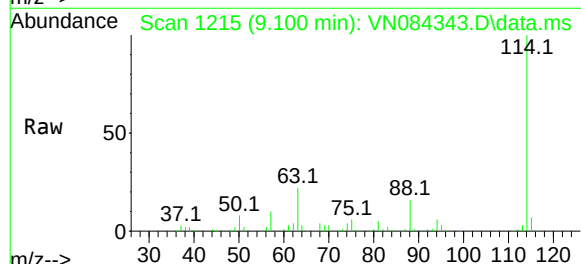
Tgt Ion:114 Resp: 193781

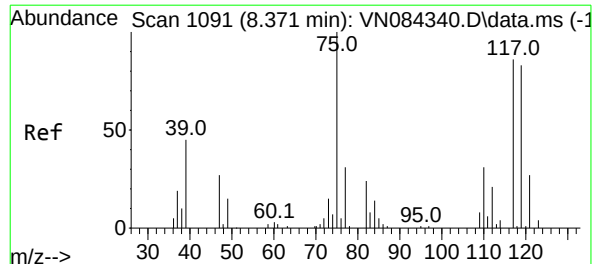
Ion Ratio Lower Upper

114 100

63 21.1 17.4 26.0

88 15.8 13.2 19.8





#29

1,1-Dichloropropene

Concen: 20.028 ug/l

RT: 8.371 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 75 Resp: 63709

Ion Ratio Lower Upper

75 100

110 34.0 0.0 67.6

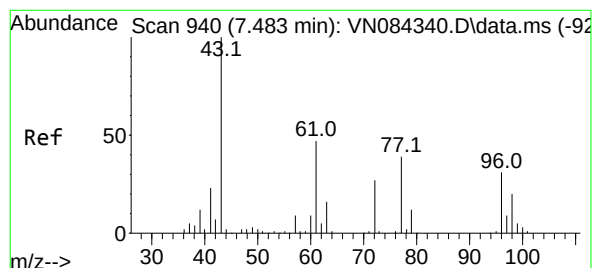
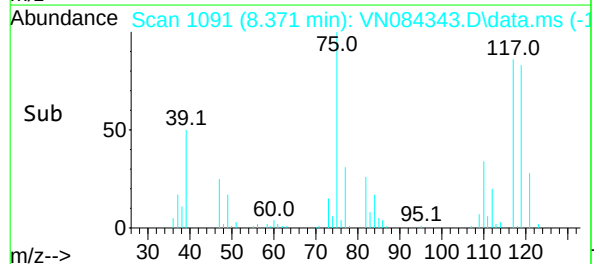
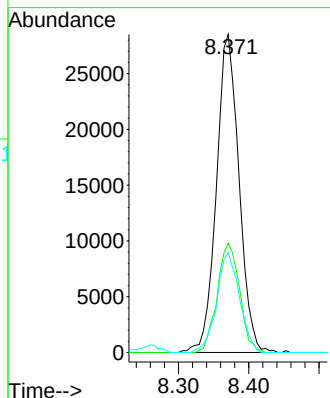
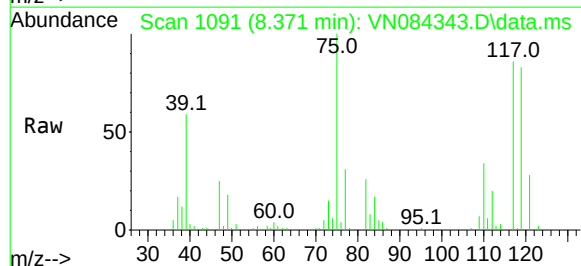
77 31.6 0.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#30

2-Butanone

Concen: 100.675 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

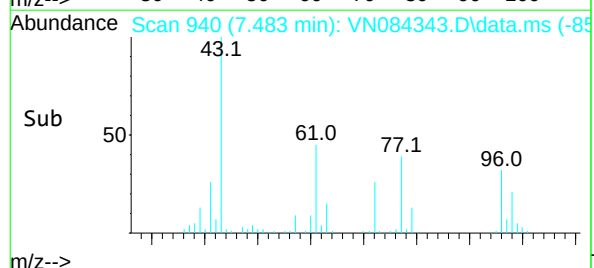
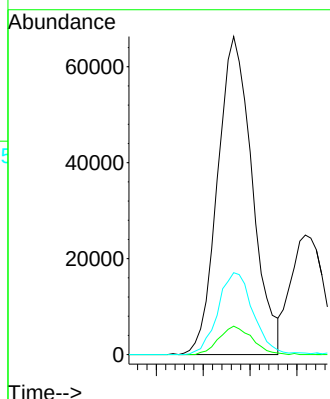
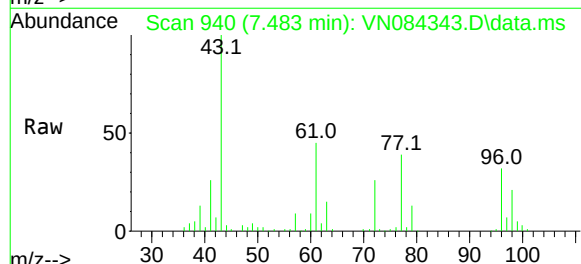
Tgt Ion: 43 Resp: 170510

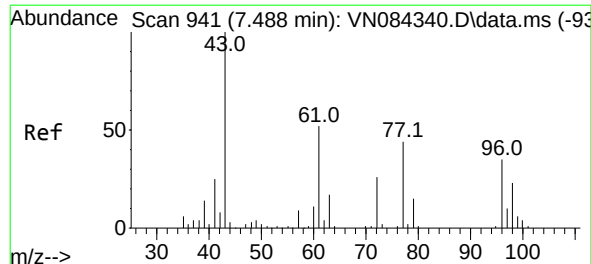
Ion Ratio Lower Upper

43 100

57 8.5 6.6 9.8

72 26.0 21.3 31.9





#31

2,2-Dichloropropane

Concen: 21.007 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 77 Resp: 78528

Ion Ratio Lower Upper

77 100

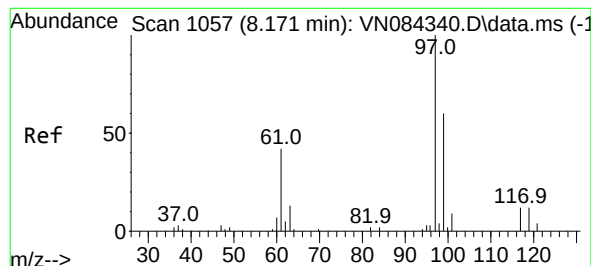
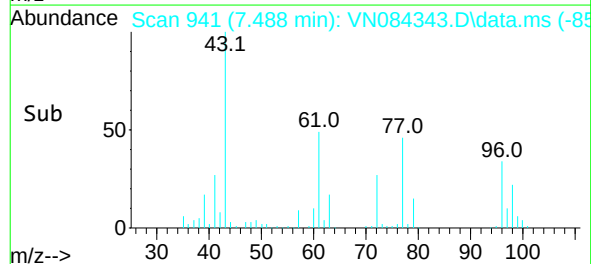
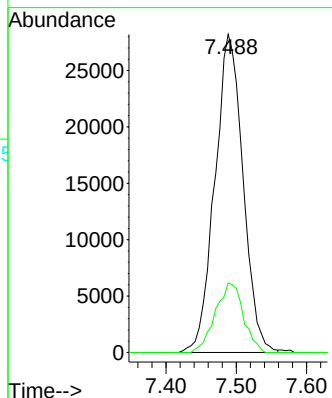
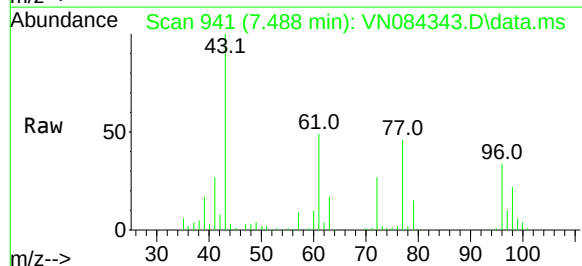
97 21.7 11.5 17.3#

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#32

1,1,1-Trichloroethane

Concen: 20.543 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

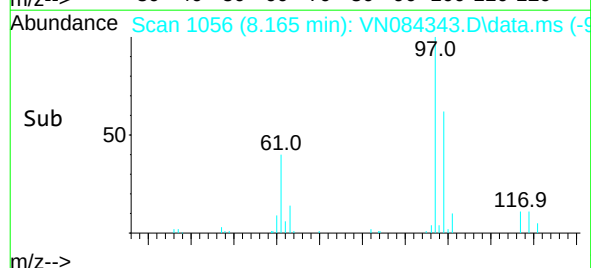
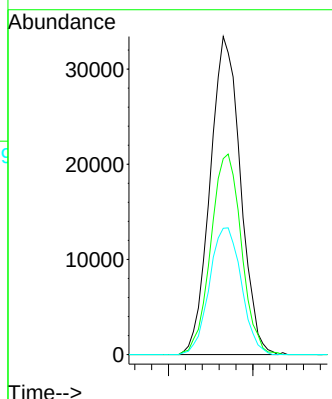
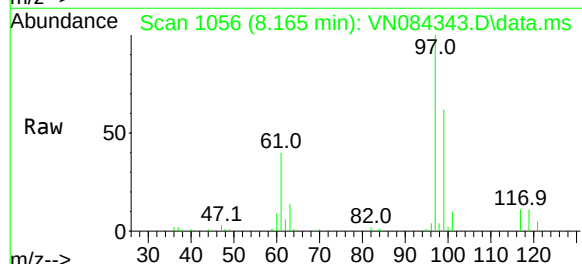
Tgt Ion: 97 Resp: 83527

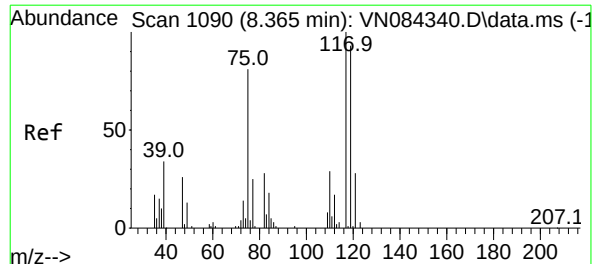
Ion Ratio Lower Upper

97 100

99 63.5 51.2 76.8

61 41.9 34.1 51.1





#33

Carbon Tetrachloride

Concen: 20.040 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN084343.D

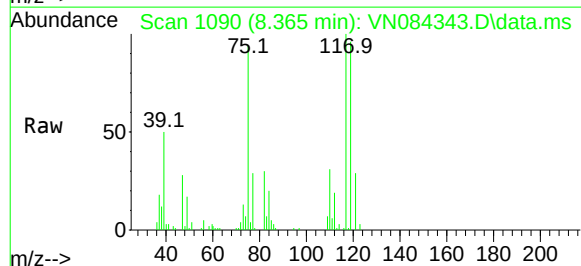
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824



Tgt Ion: 117 Resp: 70593

Ion Ratio Lower Upper

117 100

119 96.0 74.3 111.5

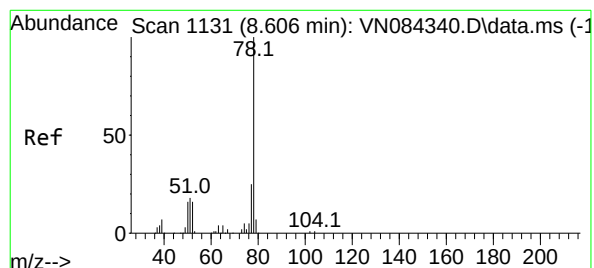
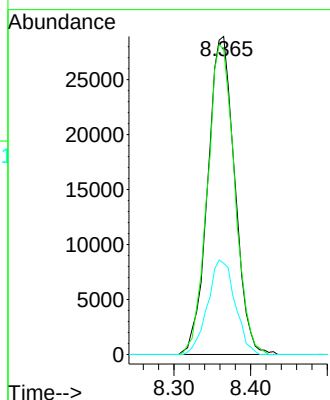
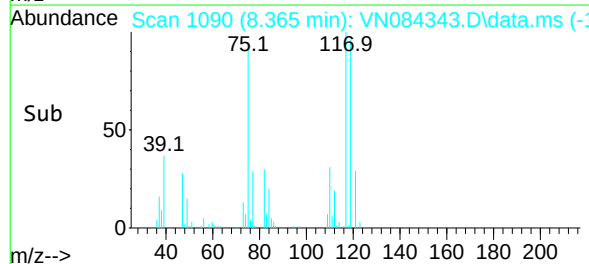
121 28.7 22.4 33.6

Manual Integrations

APPROVED

Reviewed By : John Carlone 10/09/2024

Supervised By : Mahesh Dadoda 10/09/2024



#34

Benzene

Concen: 20.195 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

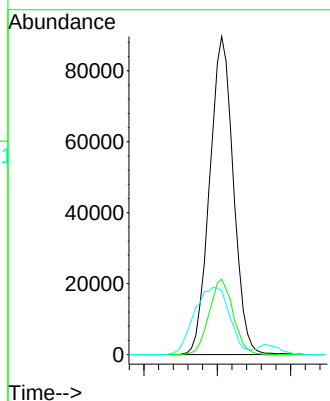
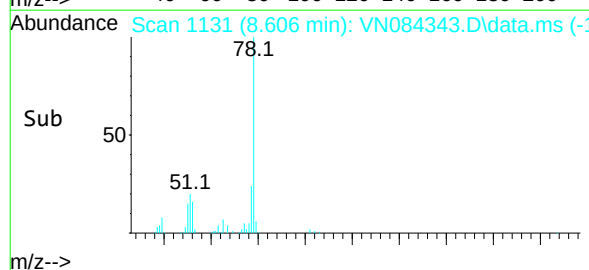
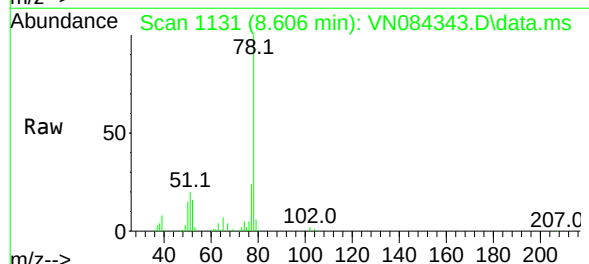
Tgt Ion: 78 Resp: 201095

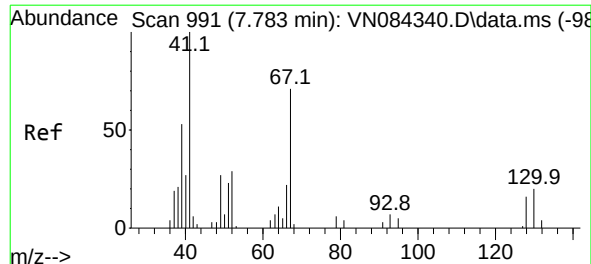
Ion Ratio Lower Upper

78 100

77 23.7 19.6 29.4

51 18.7 15.8 23.6





#35

Methacrylonitrile

Concen: 19.515 ug/l

RT: 7.782 min Scan# 991

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 41 Resp: 35261

Ion Ratio Lower Upper

41 100

39 52.3 26.4 79.0

67 71.0 35.7 107.1

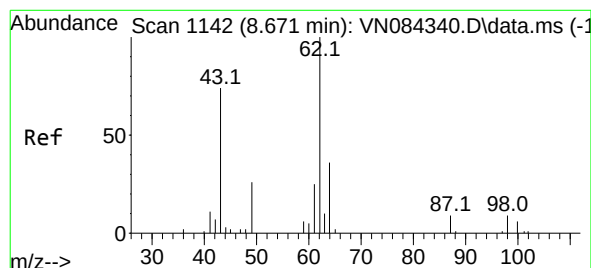
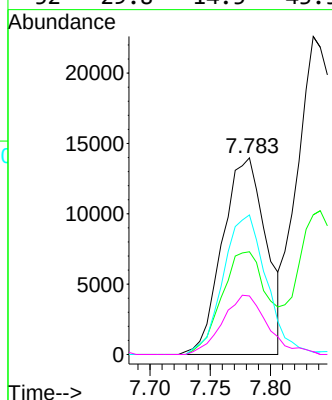
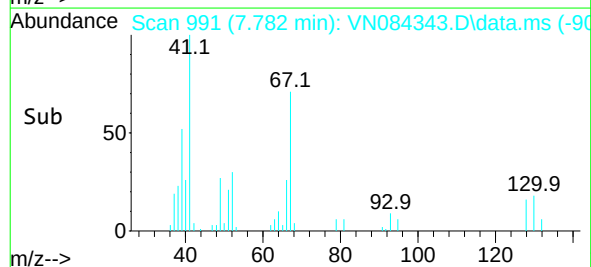
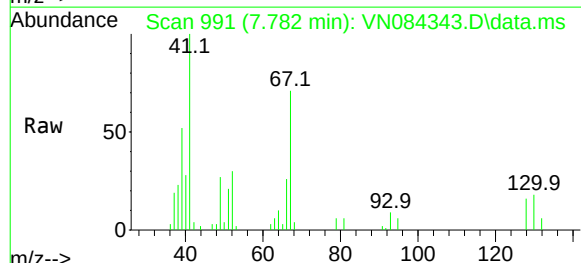
52 29.8 14.5 43.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#36

1,2-Dichloroethane

Concen: 20.321 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN084343.D

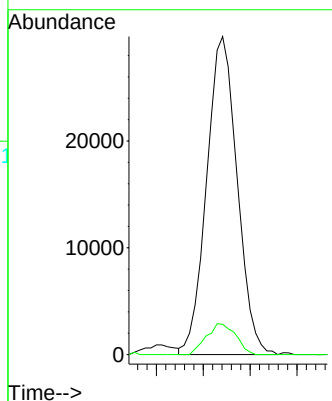
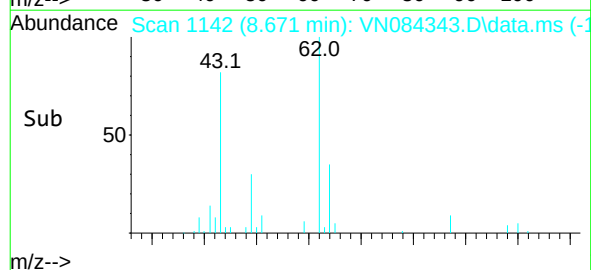
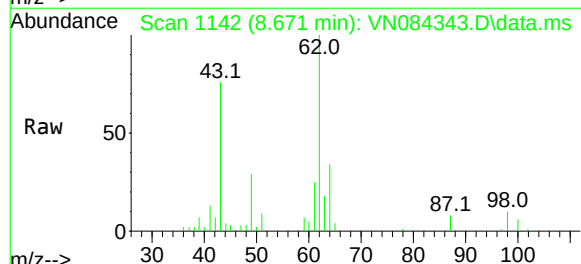
Acq: 08 Oct 2024 12:09

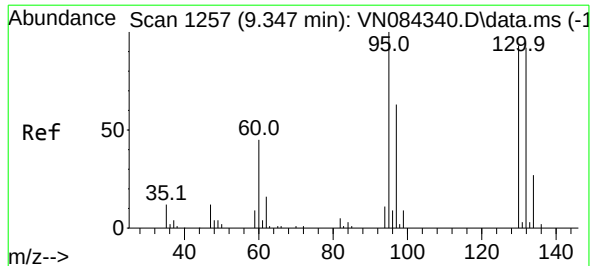
Tgt Ion: 62 Resp: 67448

Ion Ratio Lower Upper

62 100

98 9.3 7.3 10.9





#37

Trichloroethene

Concen: 20.265 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN084343.D

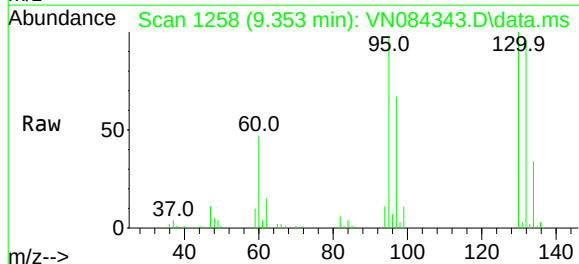
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824



Tgt Ion:130 Resp: 46466

Ion Ratio Lower Upper

130 100

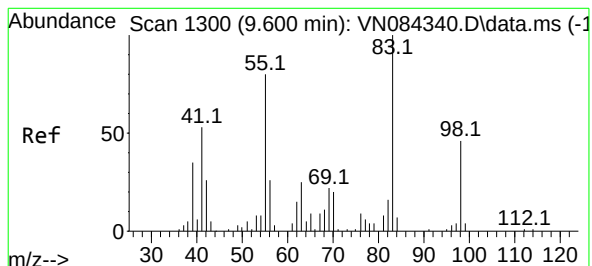
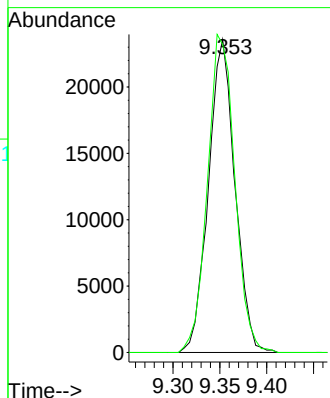
95 98.4 85.8 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#38

Methylcyclohexane

Concen: 19.810 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

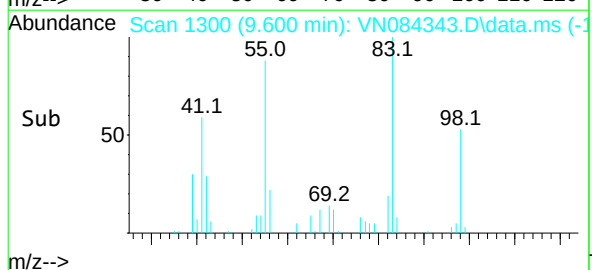
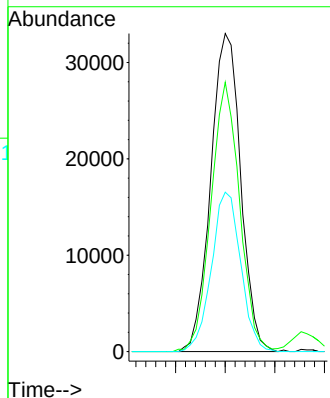
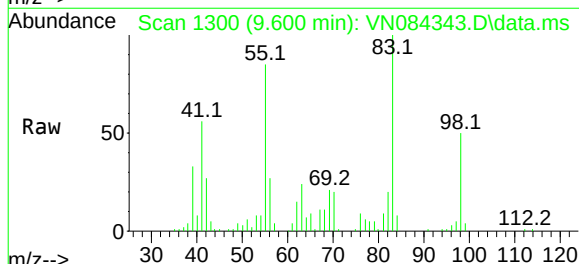
Tgt Ion: 83 Resp: 69219

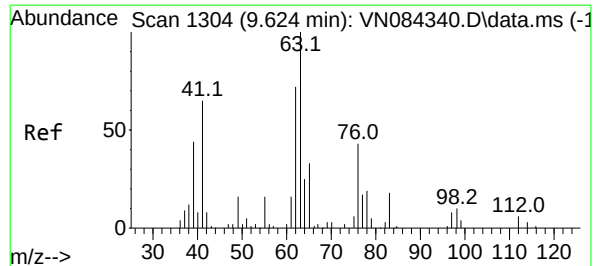
Ion Ratio Lower Upper

83 100

55 81.0 39.3 117.8

98 49.0 24.0 72.0





#39

1,2-Dichloropropane

Concen: 20.404 ug/l

RT: 9.618 min Scan# 13

Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 63 Resp: 49546

Ion Ratio Lower Upper

63 100

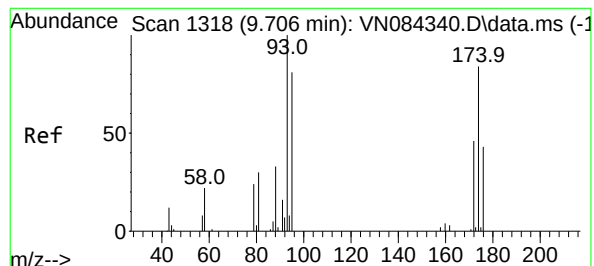
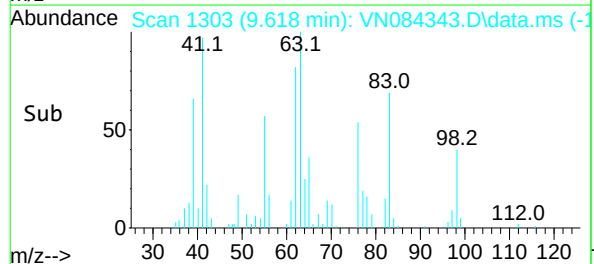
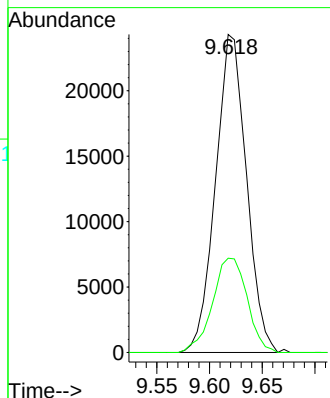
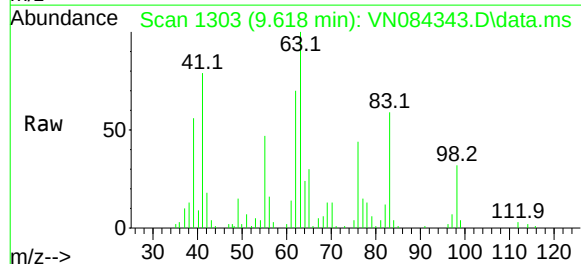
65 29.6 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#40

Dibromomethane

Concen: 20.242 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

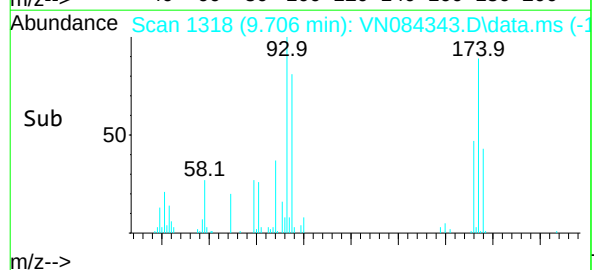
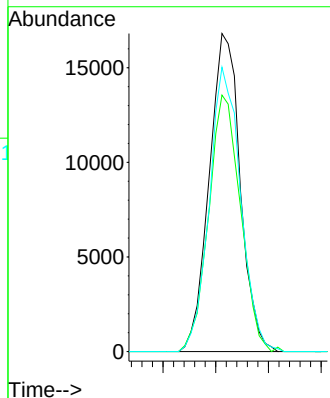
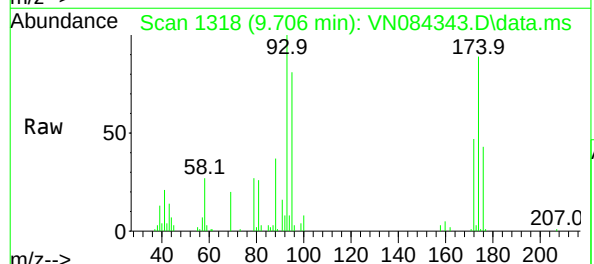
Tgt Ion: 93 Resp: 34353

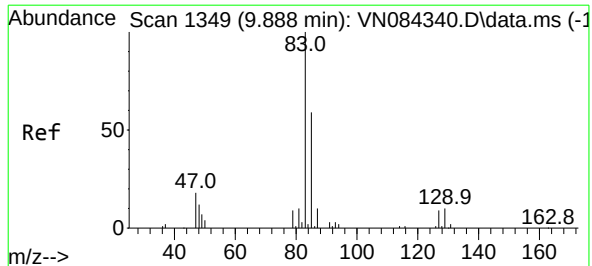
Ion Ratio Lower Upper

93 100

95 82.6 0.0 171.4

174 89.9 0.0 183.0





#41

Bromodichloromethane

Concen: 20.087 ug/l

RT: 9.888 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

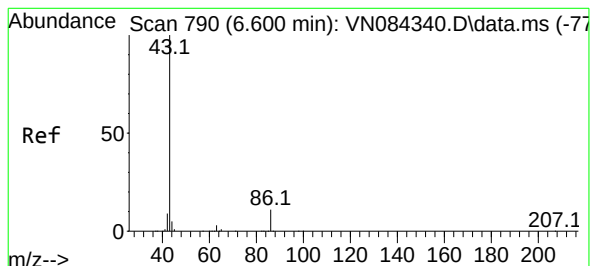
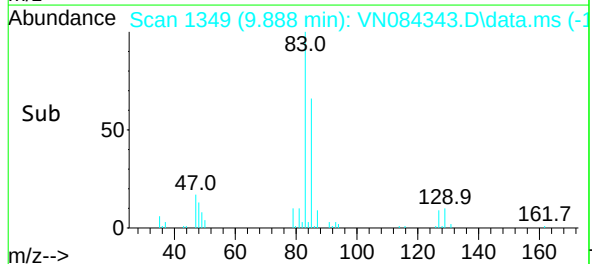
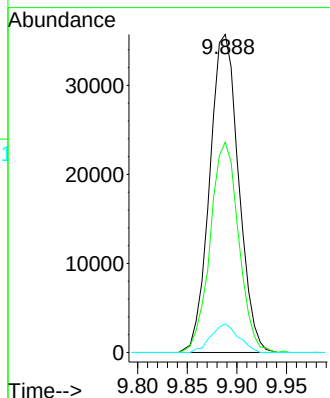
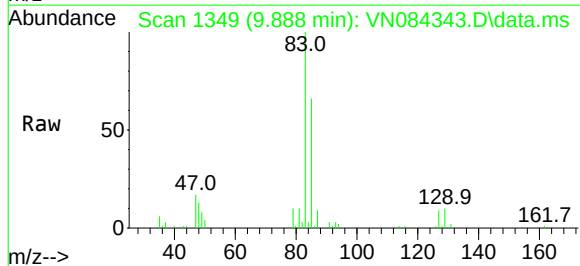
Tgt Ion:	83	Resp:	72371
Ion	Ratio	Lower	Upper
83	100		
85	66.1	47.1	70.7
127	9.0	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#42

Vinyl Acetate

Concen: 98.798 ug/l

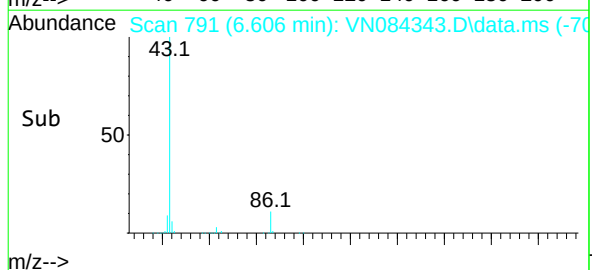
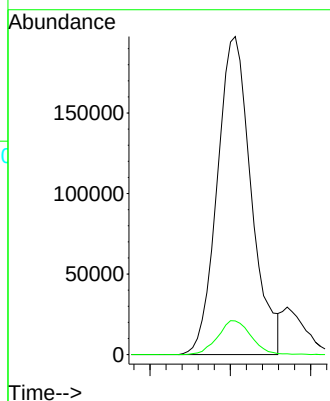
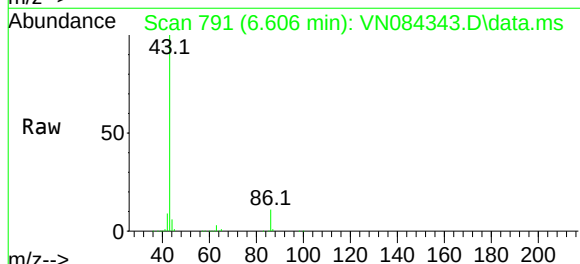
RT: 6.606 min Scan# 791

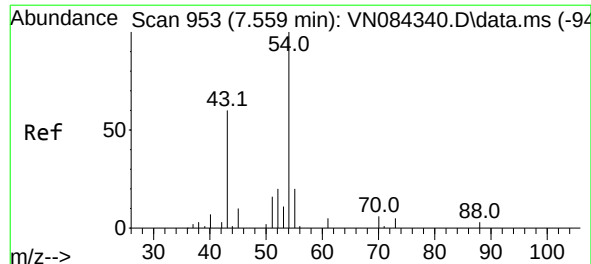
Delta R.T. 0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	43	Resp:	581959
Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.5	12.7





#43

Ethyl Acetate

Concen: 18.961 ug/l m

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 43 Resp: 63334

Ion Ratio Lower Upper

43 100

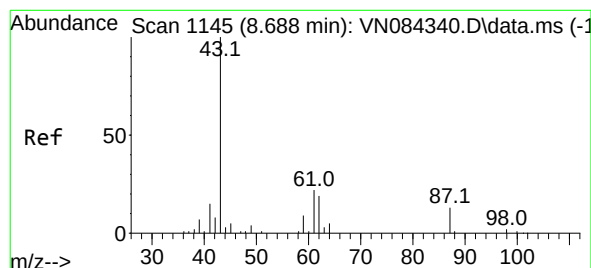
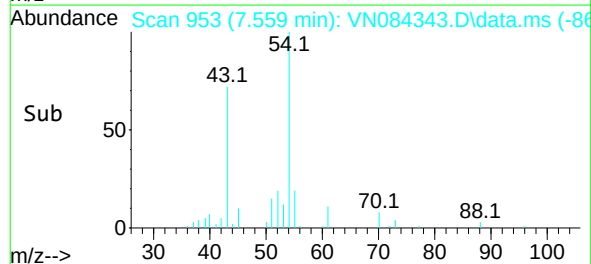
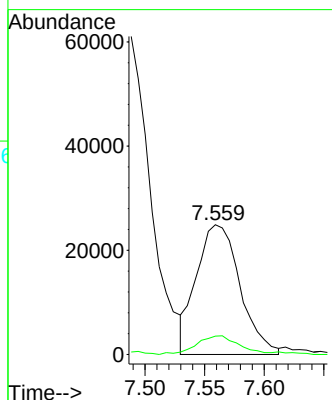
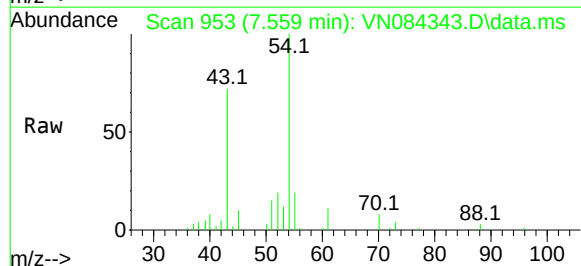
45 13.7 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#44

Isopropyl Acetate

Concen: 19.419 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084343.D

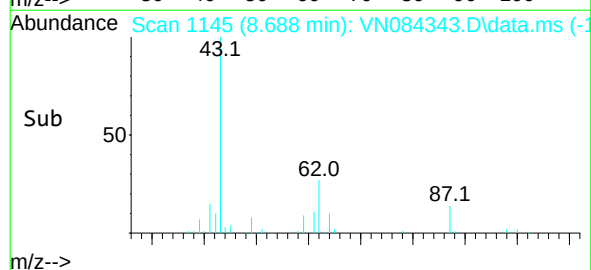
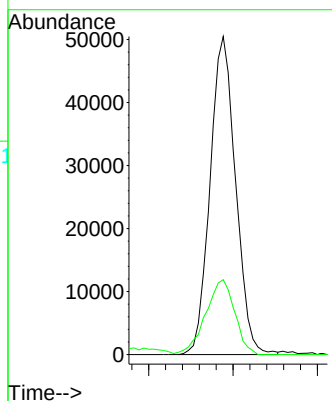
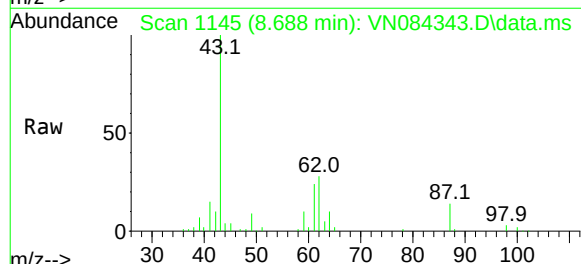
Acq: 08 Oct 2024 12:09

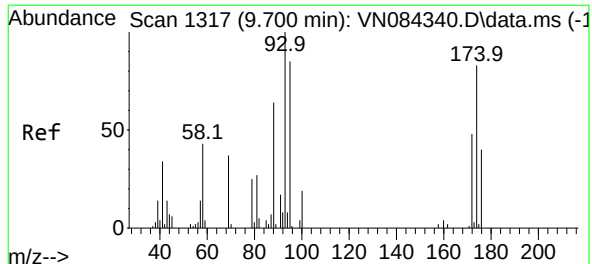
Tgt Ion: 43 Resp: 106167

Ion Ratio Lower Upper

43 100

61 26.8 21.4 32.2





#45

1,4-Dioxane

Concen: 360.927 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VN084343.D

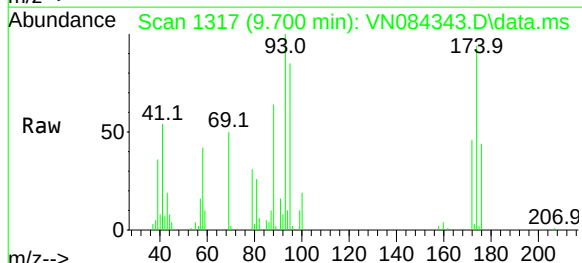
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

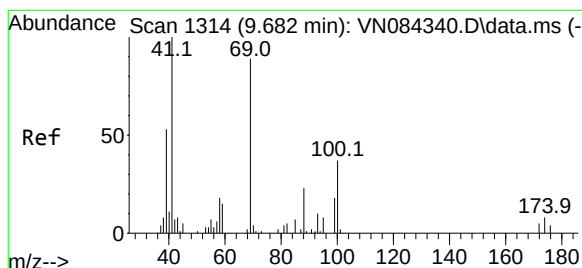
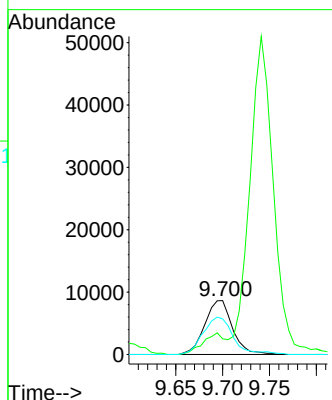
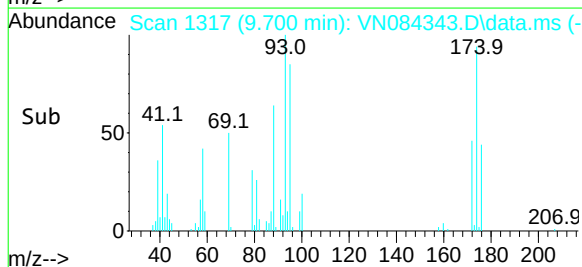
ICVVN100824



Tgt Ion:	88	Resp:	17788
Ion	Ratio	Lower	Upper
88	100		
43	33.5	22.4	33.6
58	73.5	59.7	89.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#46

Methyl methacrylate

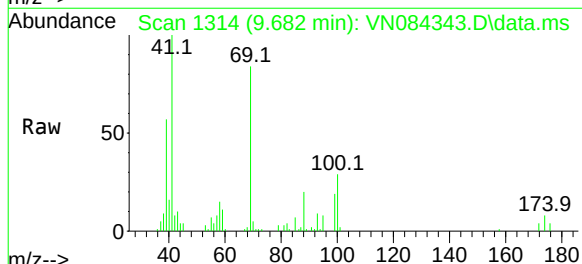
Concen: 19.353 ug/l

RT: 9.682 min Scan# 1314

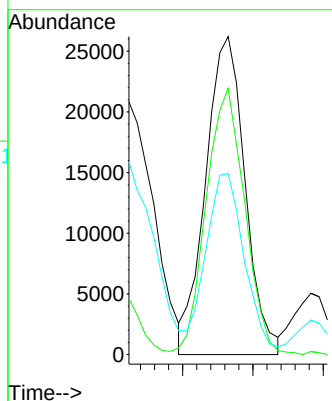
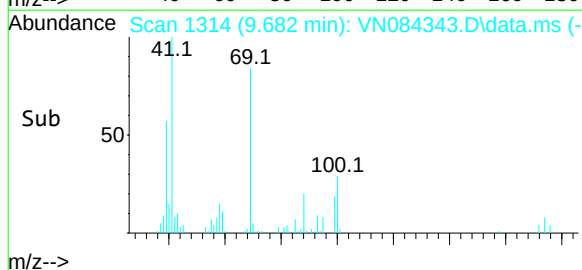
Delta R.T. 0.000 min

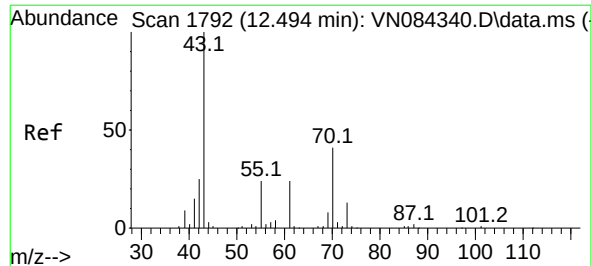
Lab File: VN084343.D

Acq: 08 Oct 2024 12:09



Tgt Ion:	41	Resp:	51122
Ion	Ratio	Lower	Upper
41	100		
69	87.1	42.6	128.0
39	57.6	27.5	82.4





#47

n-amy1 Acetate

Concen: 19.421 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 43 Resp: 94442

Ion Ratio Lower Upper

43 100

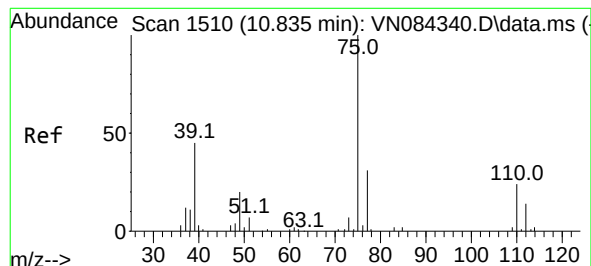
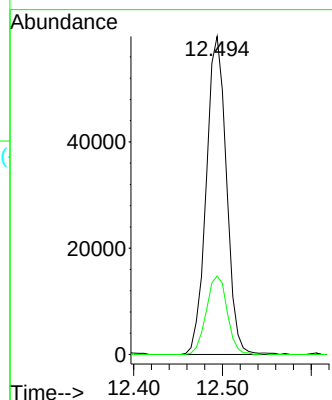
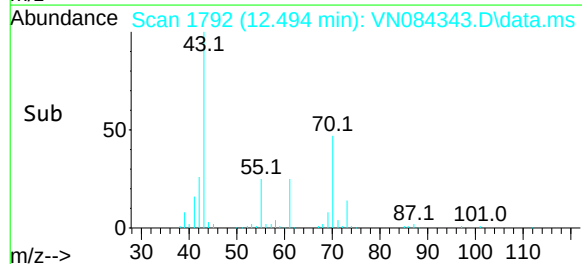
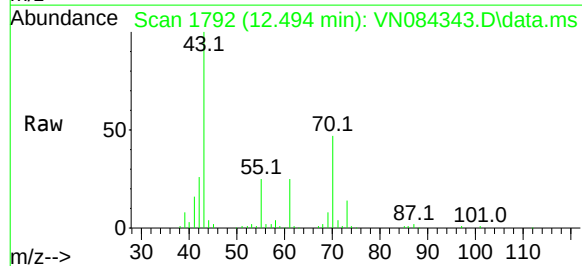
55 25.5 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#48

t-1,3-Dichloropropene

Concen: 20.107 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084343.D

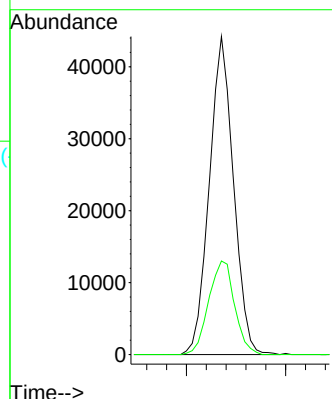
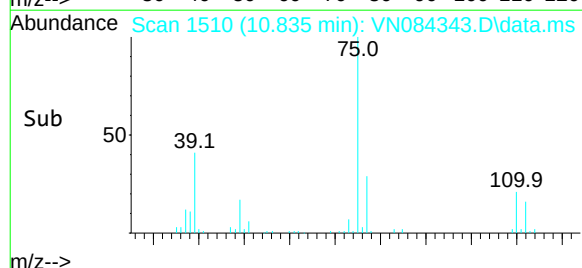
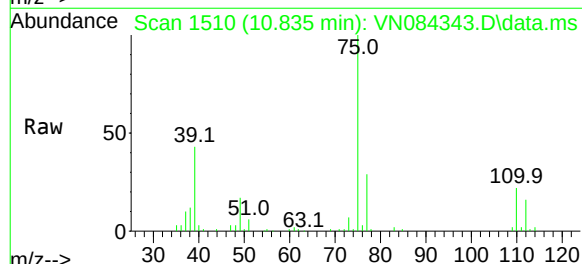
Acq: 08 Oct 2024 12:09

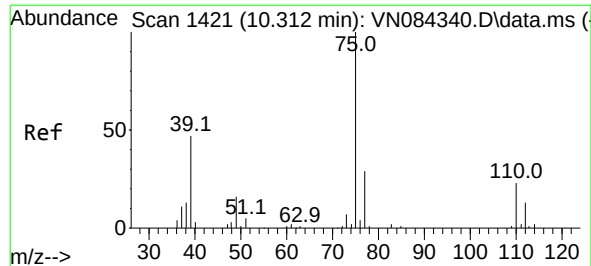
Tgt Ion: 75 Resp: 74857

Ion Ratio Lower Upper

75 100

77 29.4 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 20.591 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 75 Resp: 80340

Ion Ratio Lower Upper

75 100

77 32.1 22.9 34.3

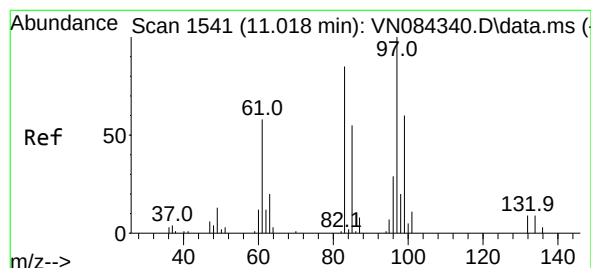
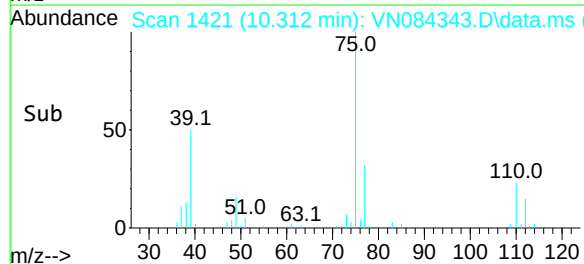
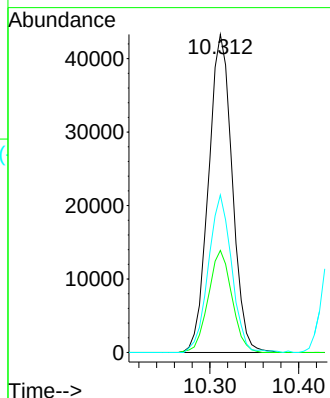
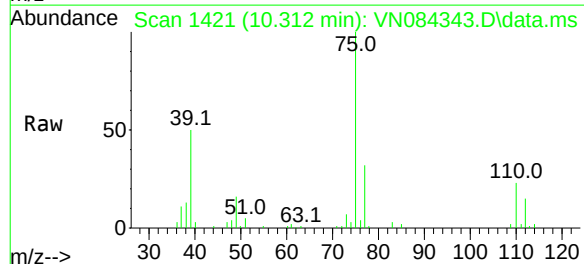
39 49.5 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#50

1,1,2-Trichloroethane

Concen: 20.034 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion: 97 Resp: 45700

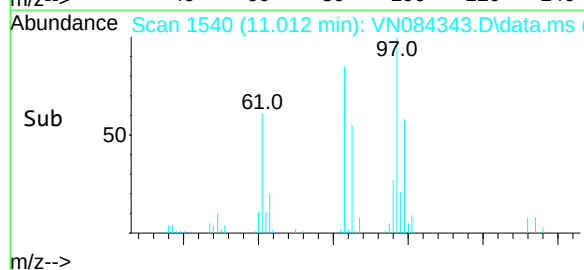
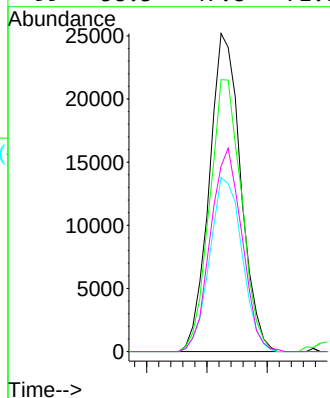
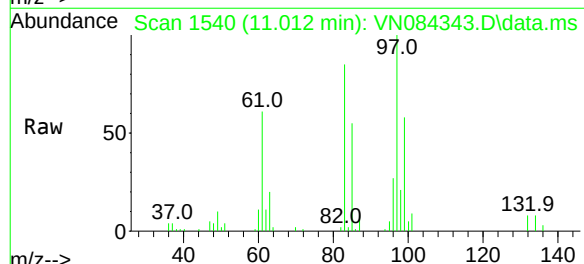
Ion Ratio Lower Upper

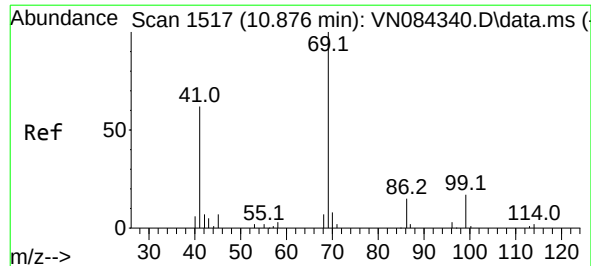
97 100

83 85.5 67.8 101.8

85 54.8 44.2 66.2

99 58.3 47.8 71.8





#51

Ethyl methacrylate

Concen: 19.639 ug/l

RT: 10.871 min Scan# 1517

Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 69 Resp: 73999

Ion Ratio Lower Upper

69 100

41 62.8 30.9 92.7

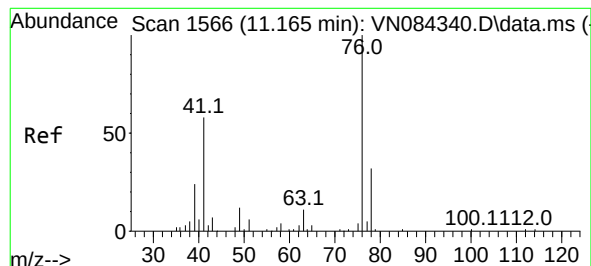
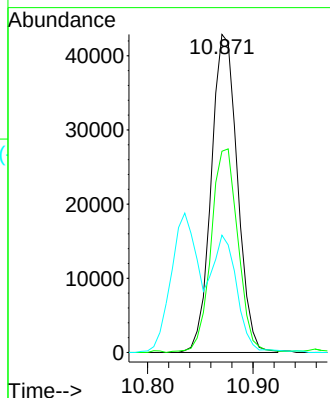
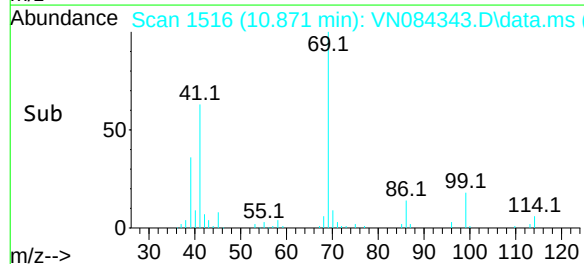
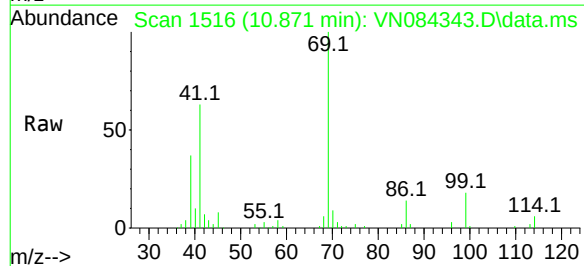
39 36.2 16.6 49.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#52

1,3-Dichloropropane

Concen: 20.070 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.006 min

Lab File: VN084343.D

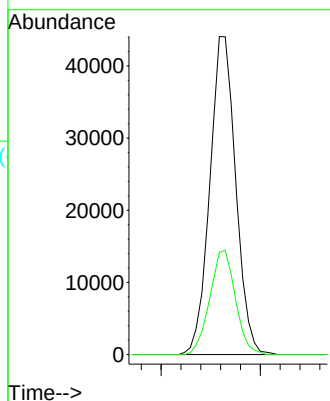
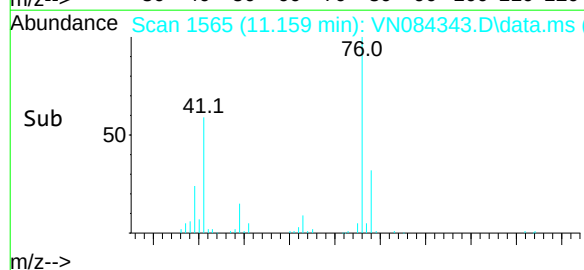
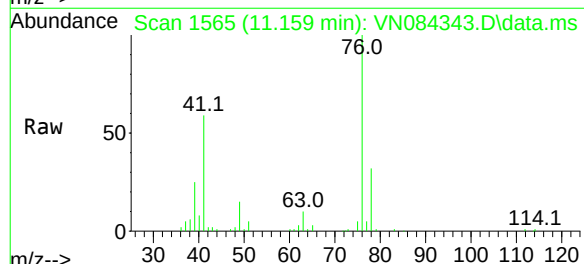
Acq: 08 Oct 2024 12:09

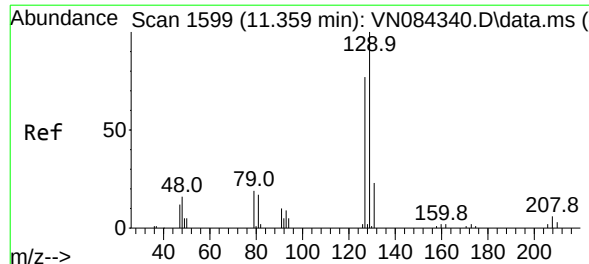
Tgt Ion: 76 Resp: 80053

Ion Ratio Lower Upper

76 100

78 32.4 0.0 64.2





#53

Dibromochloromethane

Concen: 20.221 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion:129 Resp: 54496

Ion Ratio Lower Upper

129 100

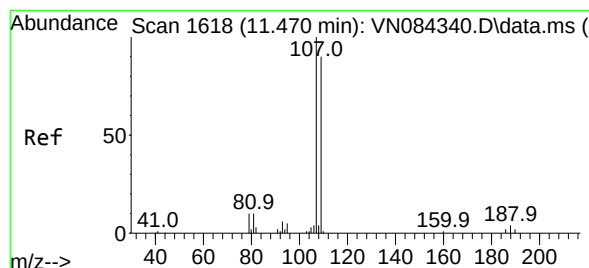
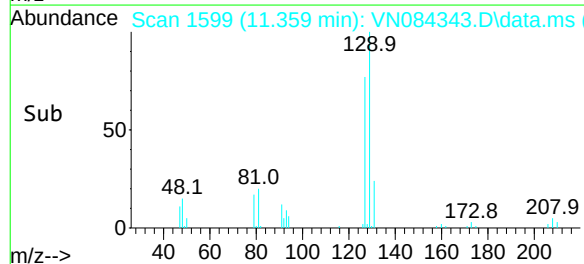
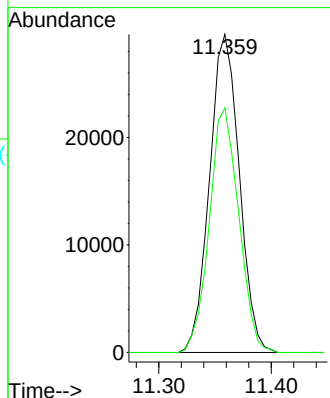
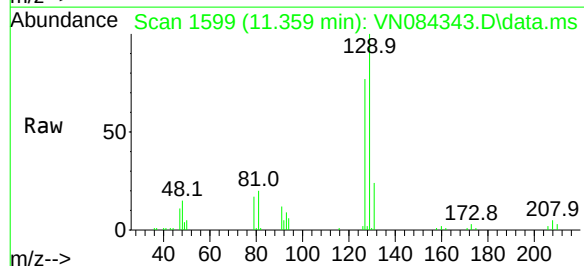
127 76.1 38.5 115.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#54

1,2-Dibromoethane

Concen: 19.530 ug/l

RT: 11.470 min Scan# 1618

Delta R.T. 0.000 min

Lab File: VN084343.D

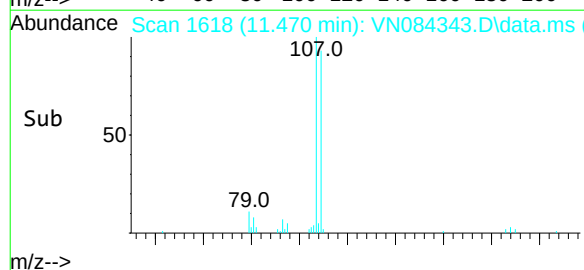
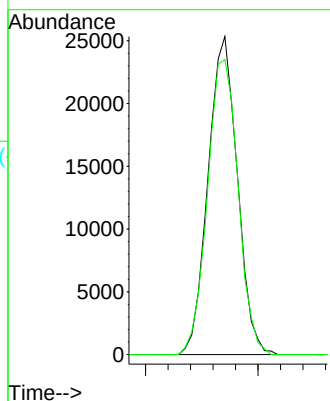
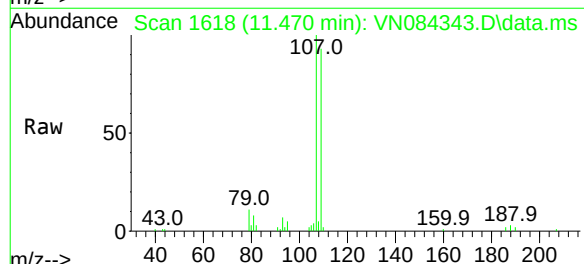
Acq: 08 Oct 2024 12:09

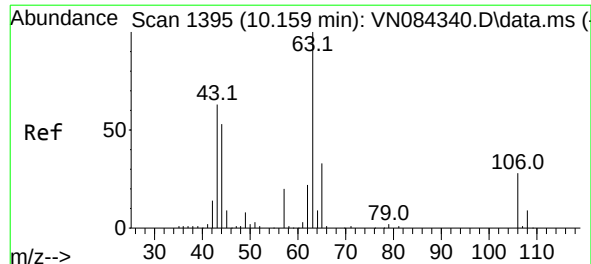
Tgt Ion:107 Resp: 45857

Ion Ratio Lower Upper

107 100

109 97.0 73.8 110.6





#55

2-Chloroethyl vinyl ether

Concen: 88.171 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN084343.D

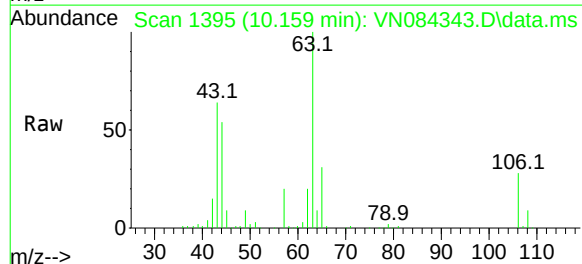
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

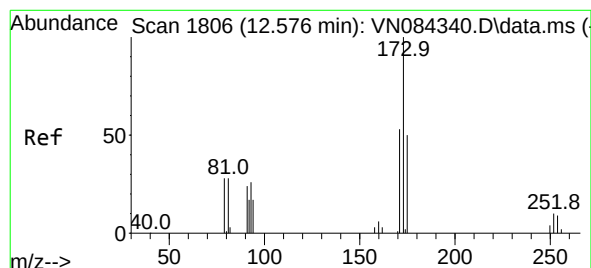
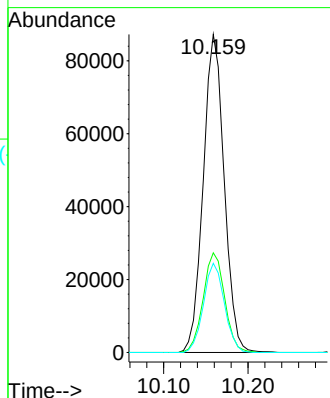
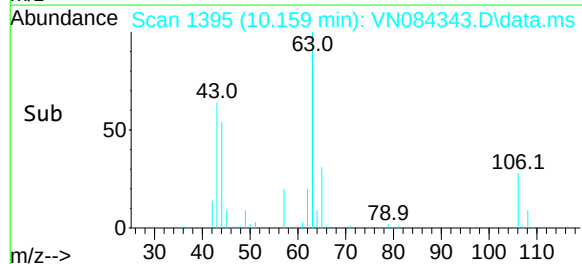
ICVVN100824



Tgt Ion:	63	Resp:	150677
Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.6	38.4
106	28.0	21.6	32.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#56

Bromoform

Concen: 20.113 ug/l

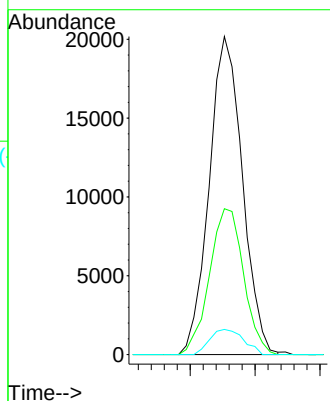
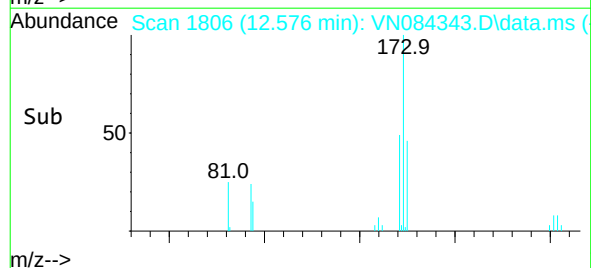
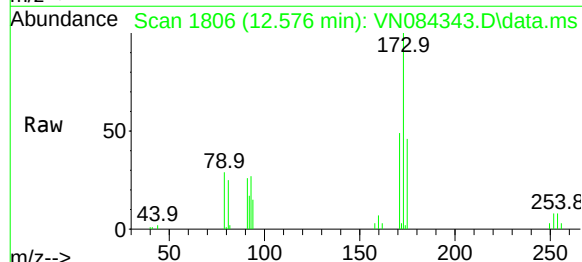
RT: 12.576 min Scan# 1806

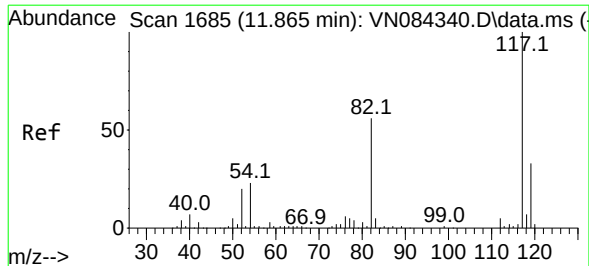
Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	173	Resp:	35946
Ion	Ratio	Lower	Upper
173	100		
175	47.1	39.4	59.2
254	8.1	6.8	10.2





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084343.D

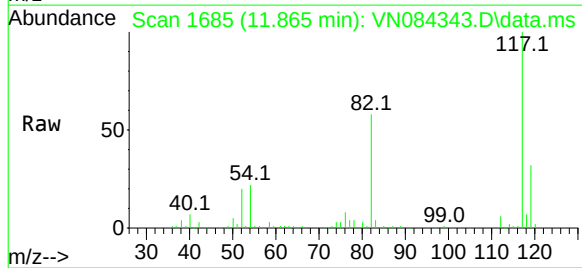
Acq: 08 Oct 2024 12:09

Instrument :

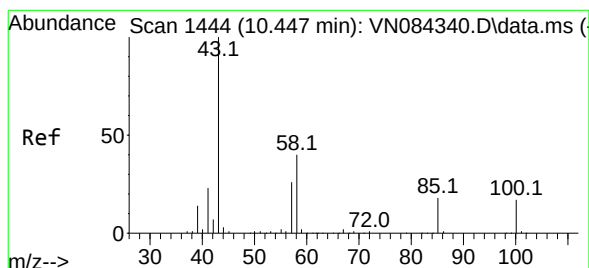
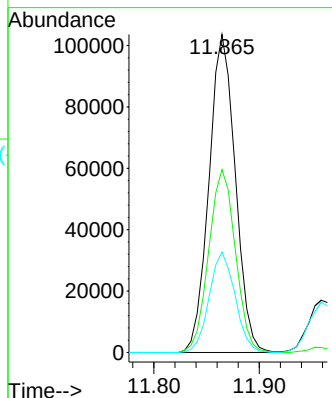
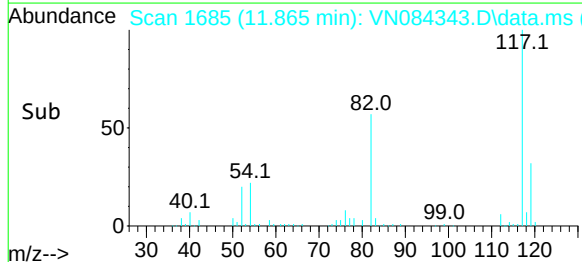
MSVOA_N

ClientSampleId :

ICVVN100824



Tgt Ion:	117	Resp:	180191
Ion	Ratio	Lower	Upper
117	100		
82	58.2	46.2	69.4
119	31.0	25.4	38.2

Manual Integrations
APPROVEDReviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024

#58

4-Methyl-2-Pentanone

Concen: 97.392 ug/l

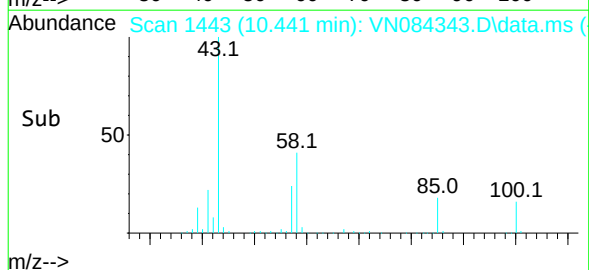
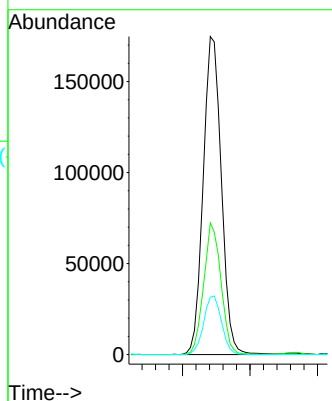
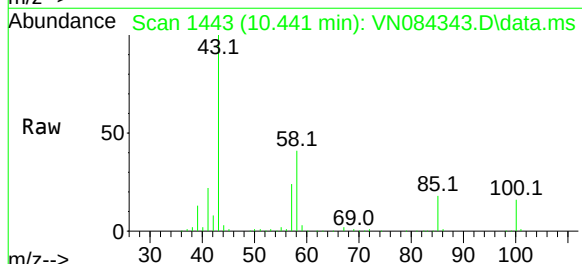
RT: 10.441 min Scan# 1443

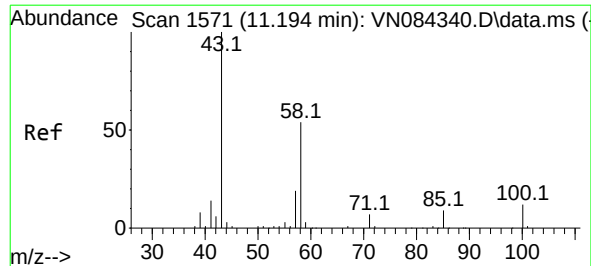
Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	43	Resp:	326914
Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.9	47.9
85	18.1	14.6	22.0





#59

2-Hexanone

Concen: 99.486 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

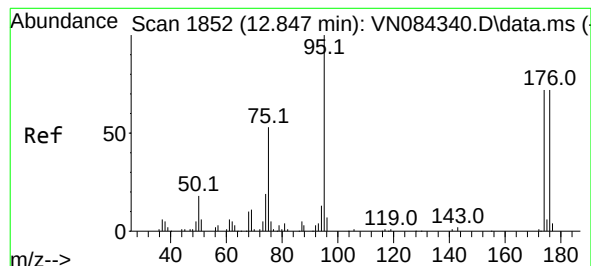
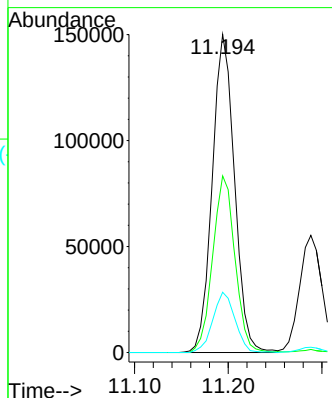
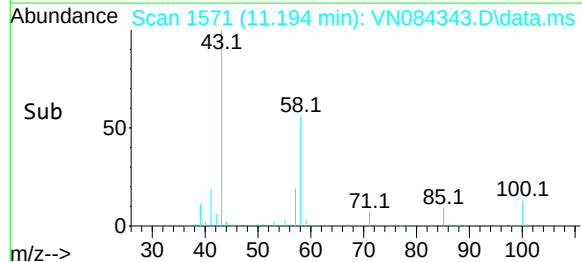
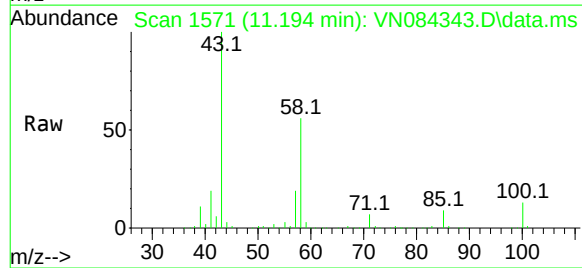
ClientSampleId :

ICVVN100824

Tgt Ion:	43	Resp:	248144
Ion	Ratio	Lower	Upper
43	100		
58	55.5	44.0	66.0
57	18.8	15.4	23.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#60

4-Bromofluorobenzene

Concen: 30.784 ug/l

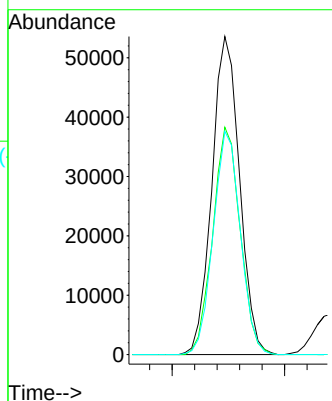
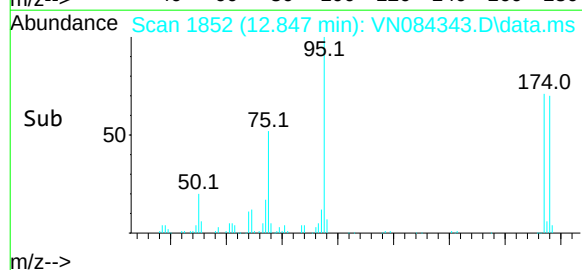
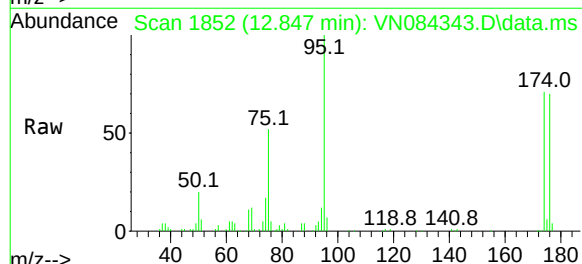
RT: 12.847 min Scan# 1852

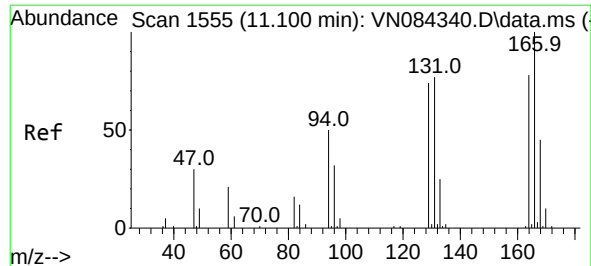
Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

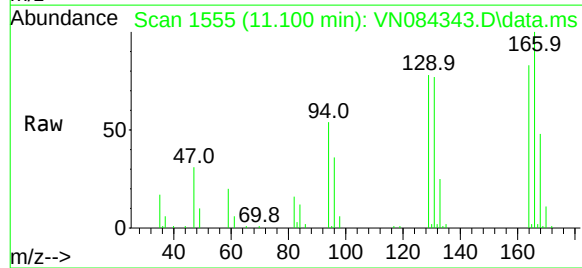
Tgt Ion:	95	Resp:	91549
Ion	Ratio	Lower	Upper
95	100		
174	70.7	58.2	87.2
176	68.7	56.4	84.6





#61
Tetrachloroethene
Concen: 20.477 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN084343.D
Acq: 08 Oct 2024 12:09

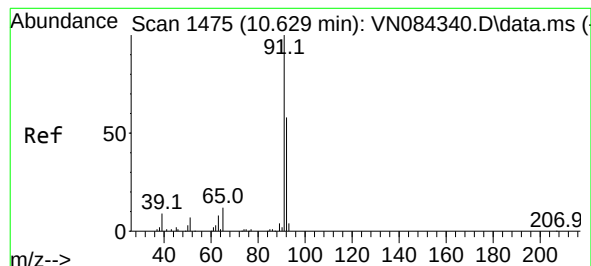
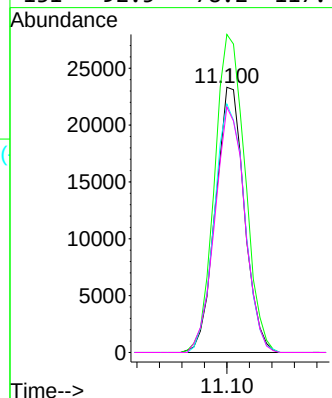
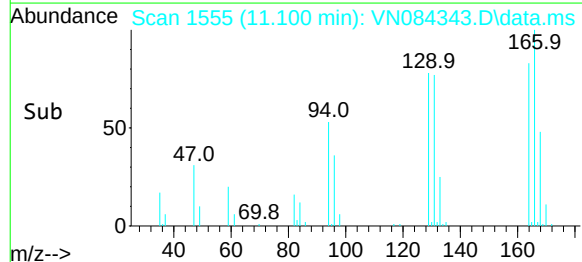
Instrument :
MSVOA_N
ClientSampleId :
ICVVN100824



Tgt Ion:164 Resp: 41736
Ion Ratio Lower Upper
164 100
166 119.9 102.5 153.7
129 93.7 75.7 113.5
131 92.5 78.2 117.4

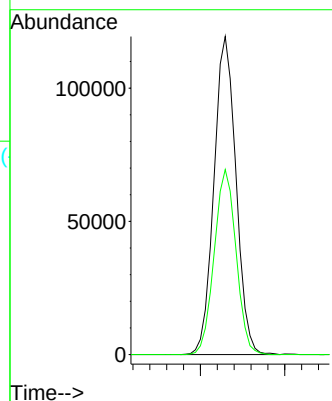
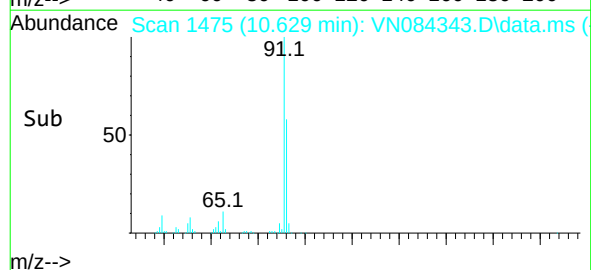
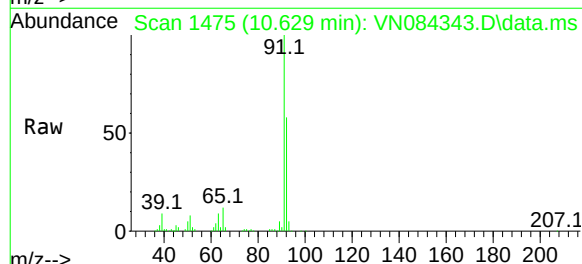
Manual Integrations
APPROVED

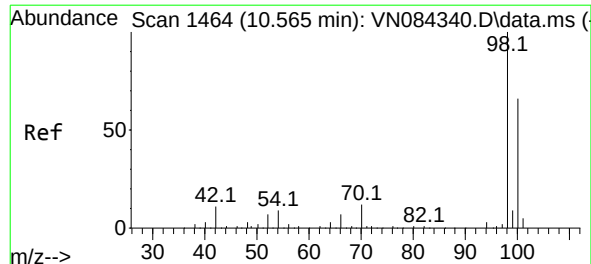
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#62
Toluene
Concen: 20.551 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084343.D
Acq: 08 Oct 2024 12:09

Tgt Ion: 91 Resp: 216792
Ion Ratio Lower Upper
91 100
92 57.6 47.2 70.8





#63

Toluene-d8

Concen: 30.377 ug/l

RT: 10.565 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 98 Resp: 253573

Ion Ratio Lower Upper

98 100

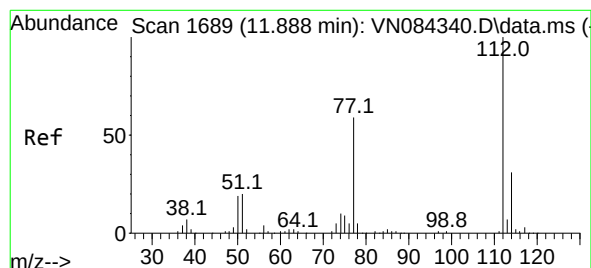
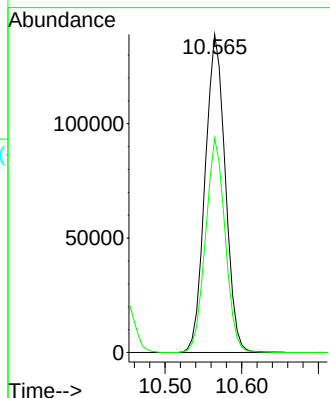
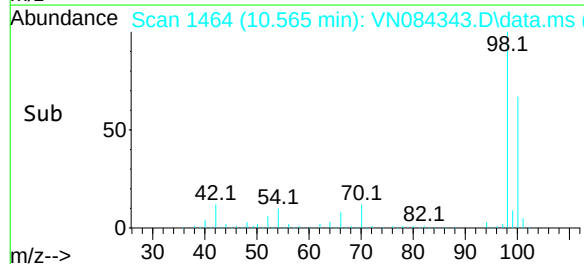
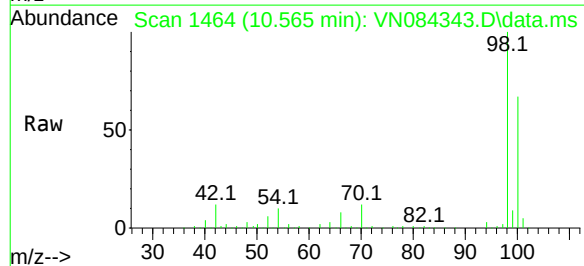
100 65.6 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#64

Chlorobenzene

Concen: 19.960 ug/l

RT: 11.894 min Scan# 1690

Delta R.T. 0.006 min

Lab File: VN084343.D

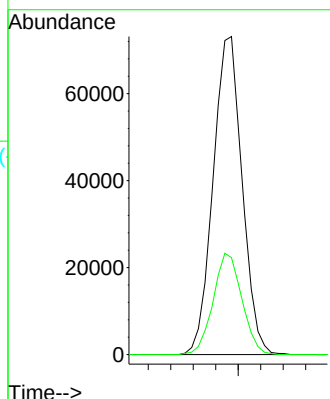
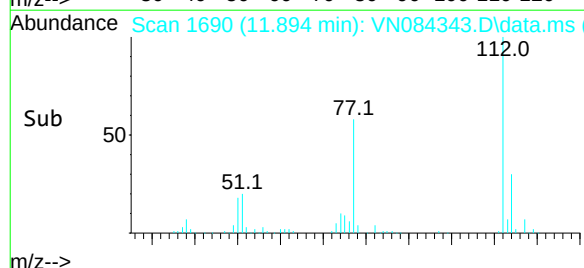
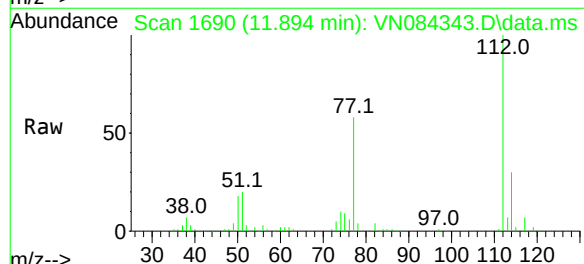
Acq: 08 Oct 2024 12:09

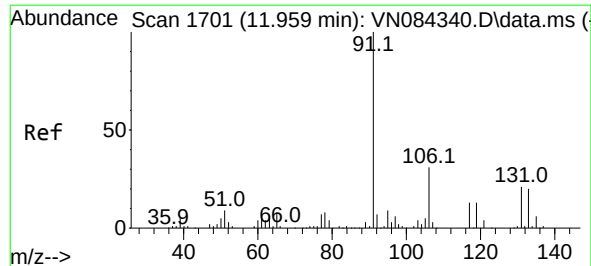
Tgt Ion:112 Resp: 131028

Ion Ratio Lower Upper

112 100

114 30.5 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 20.169 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

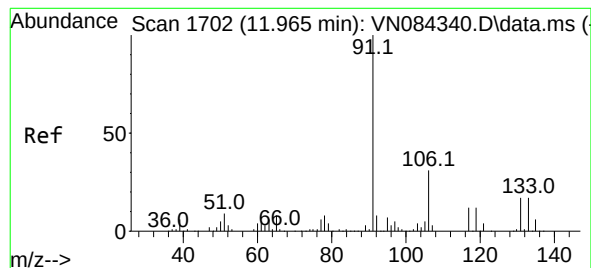
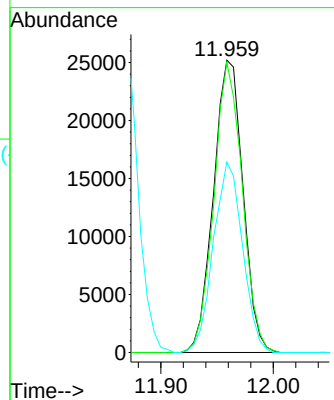
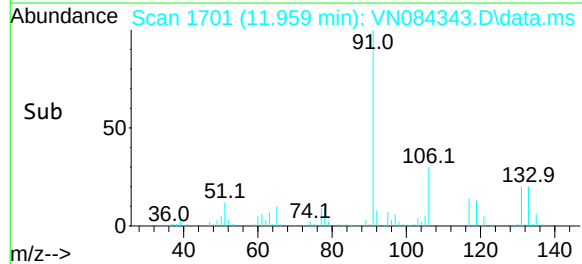
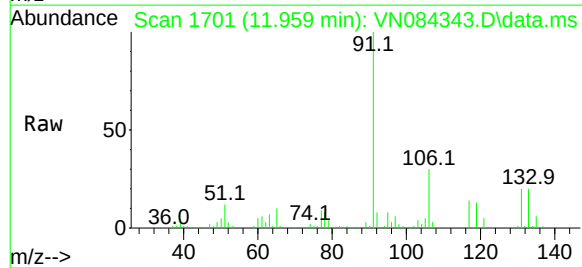
Tgt Ion:	131	Resp:	45996
Ion	Ratio	Lower	Upper
131	100		
133	95.4	0.0	190.4
119	64.4	0.0	130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#66

Ethyl Benzene

Concen: 20.038 ug/l

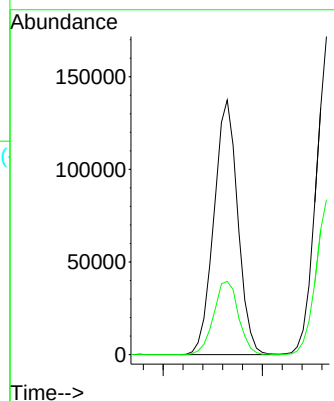
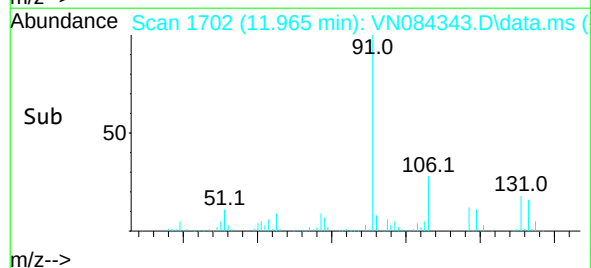
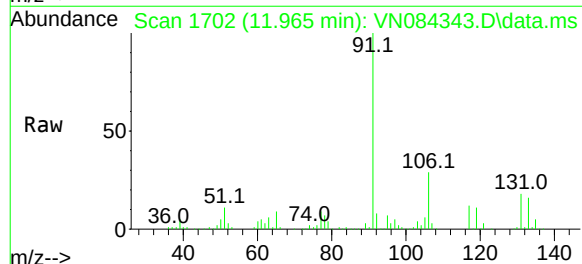
RT: 11.965 min Scan# 1702

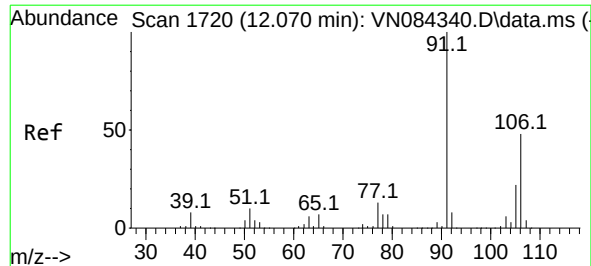
Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	91	Resp:	229654
Ion	Ratio	Lower	Upper
91	100		
106	28.8	25.2	37.8





#67

m/p-Xylenes

Concen: 41.370 ug/l

RT: 12.070 min Scan# 17

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion:106 Resp: 179863

Ion Ratio Lower Upper

106 100

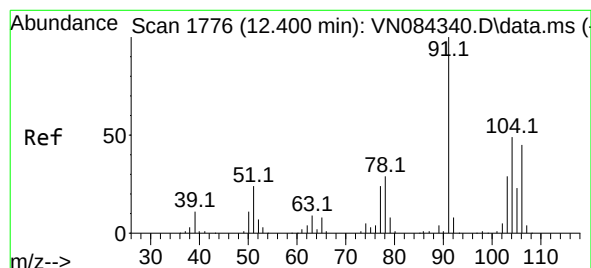
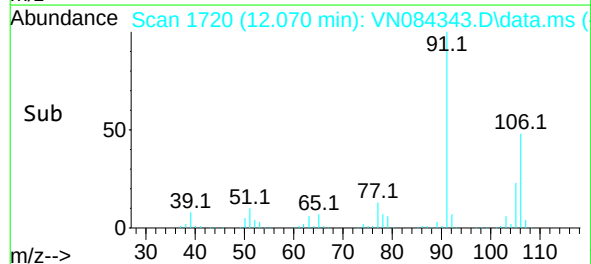
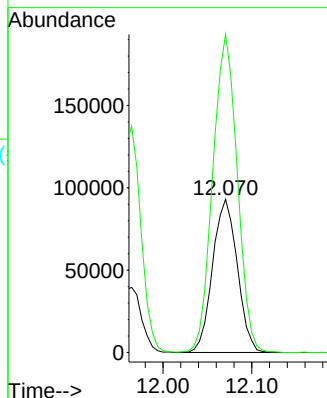
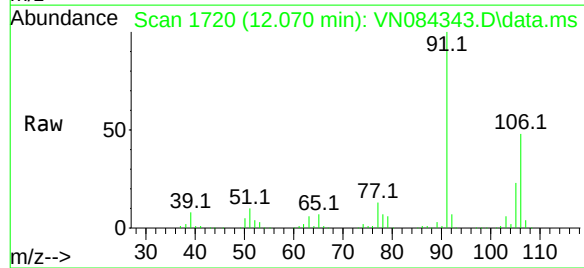
91 205.9 166.7 250.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#68

o-Xylene

Concen: 20.070 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.006 min

Lab File: VN084343.D

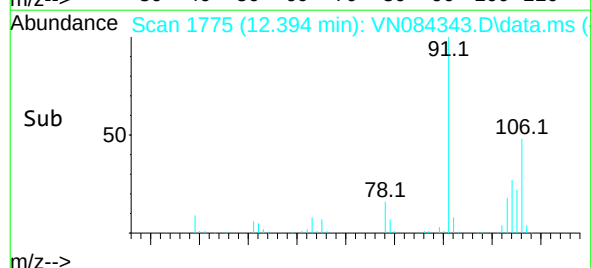
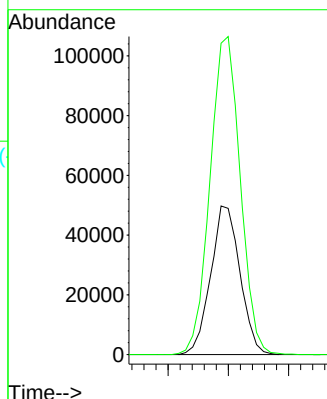
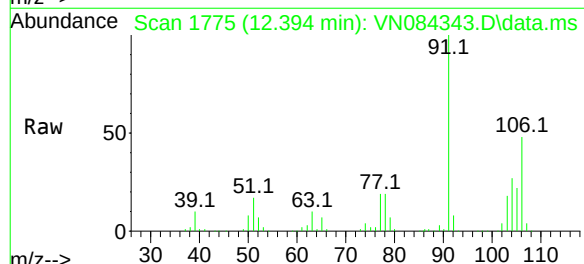
Acq: 08 Oct 2024 12:09

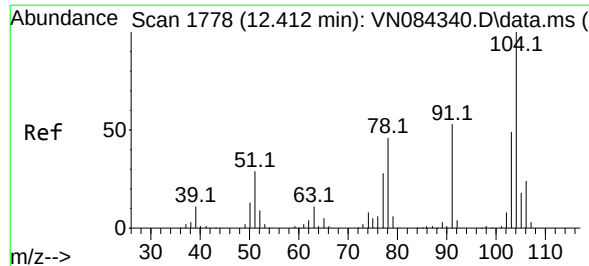
Tgt Ion:106 Resp: 84107

Ion Ratio Lower Upper

106 100

91 220.5 110.9 332.9





#69

Styrene

Concen: 20.124 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion:104 Resp: 144766

Ion Ratio Lower Upper

104 100

78 51.9 41.6 62.4

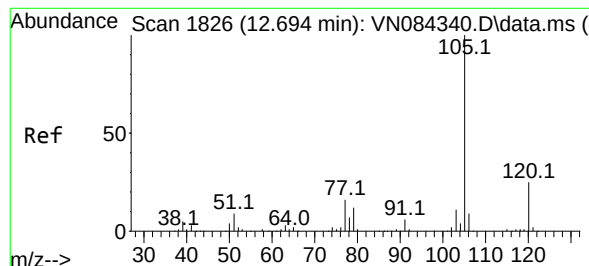
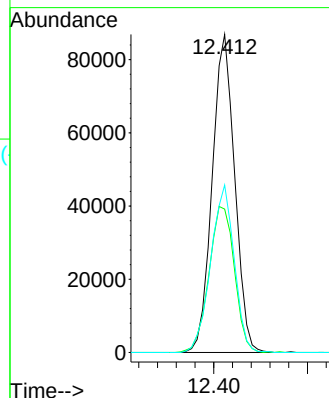
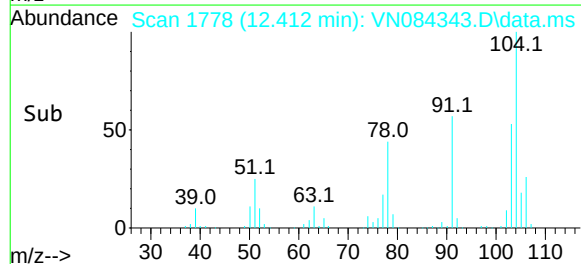
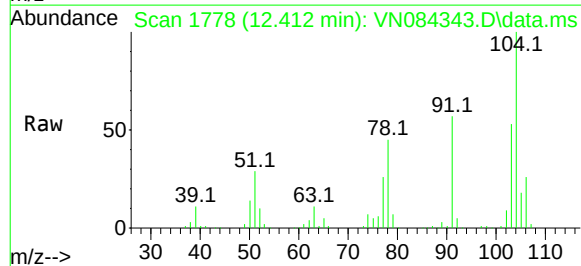
103 54.9 44.4 66.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#70

Isopropylbenzene

Concen: 19.923 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084343.D

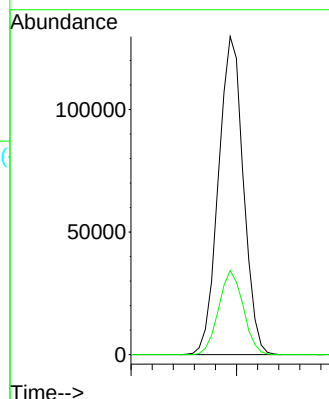
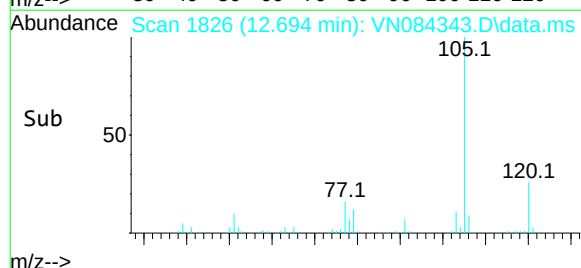
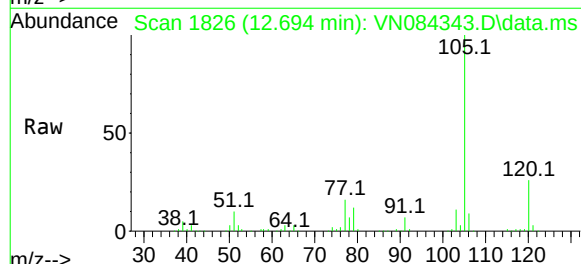
Acq: 08 Oct 2024 12:09

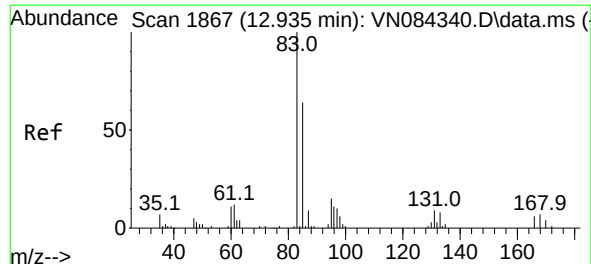
Tgt Ion:105 Resp: 213142

Ion Ratio Lower Upper

105 100

120 25.9 17.4 32.4





#71

1,1,2,2-Tetrachloroethane

Concen: 19.932 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

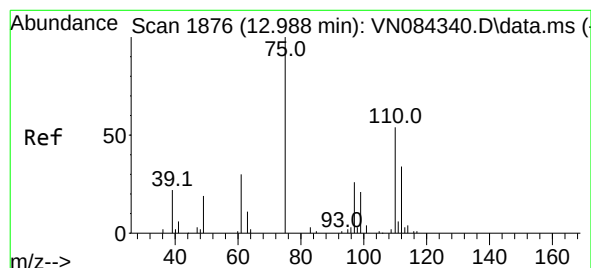
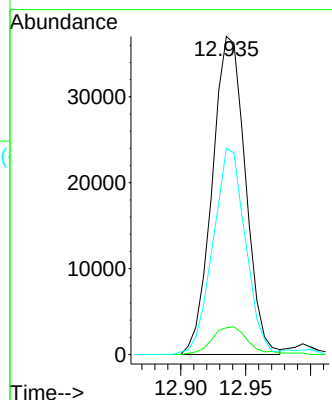
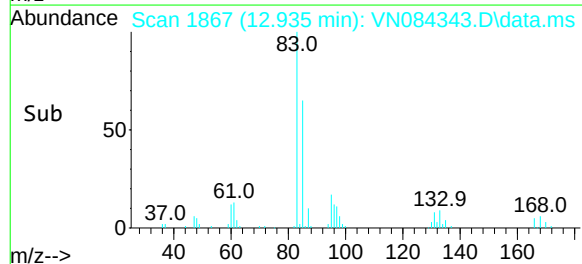
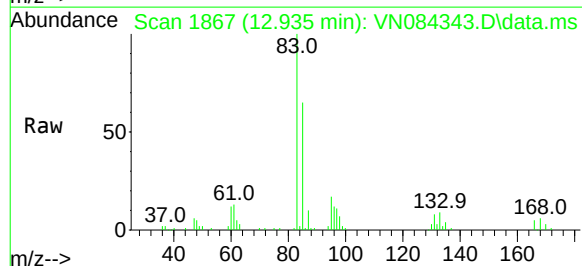
ICVVN100824

Tgt Ion:	83	Resp:	65966
Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.1	15.3
85	63.6	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#72

1,2,3-Trichloropropane

Concen: 22.527 ug/l m

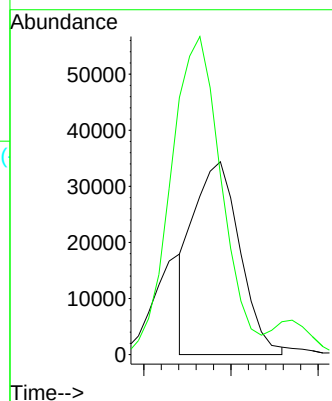
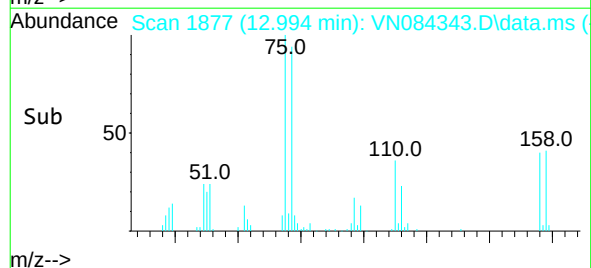
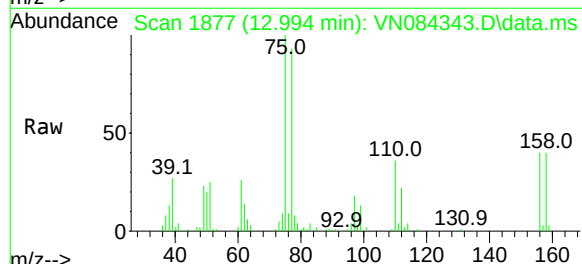
RT: 12.994 min Scan# 1877

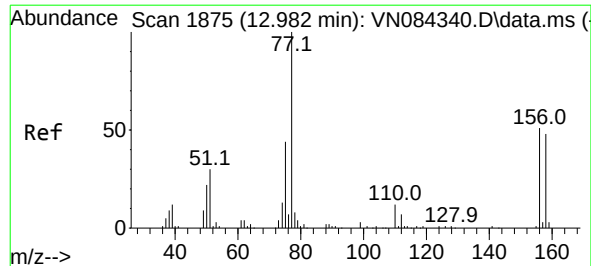
Delta R.T. 0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	75	Resp:	63849
Ion	Ratio	Lower	Upper
75	100		
77	179.8	0.0	414.0





#73

Bromobenzene

Concen: 19.992 ug/l

RT: 12.976 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN084343.D

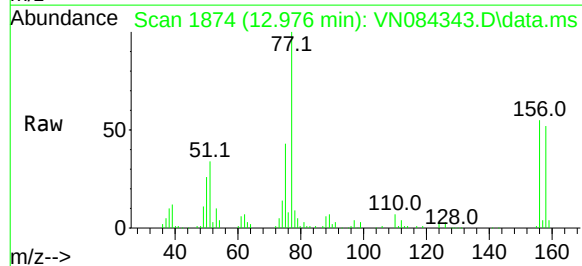
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824



Tgt Ion: 156 Resp: 51798

Ion Ratio Lower Upper

156 100

77 221.7 0.0 451.0

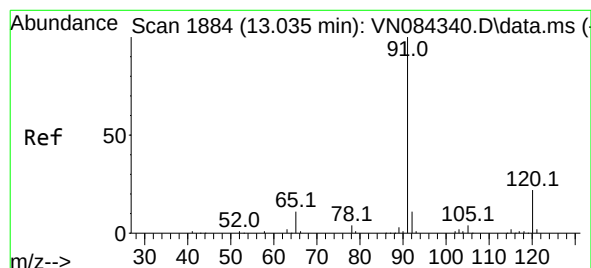
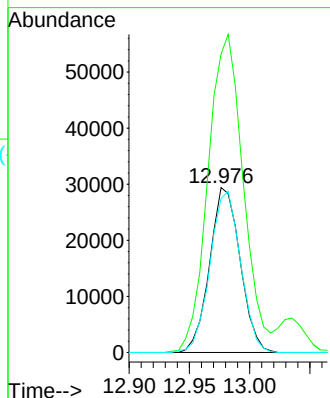
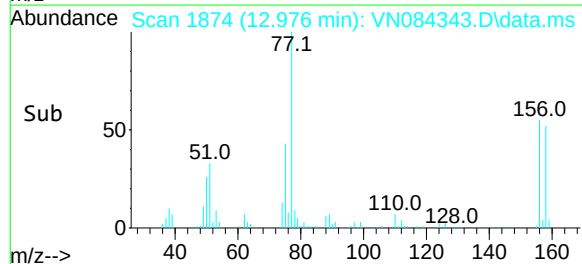
158 97.9 0.0 194.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#74

n-propylbenzene

Concen: 20.467 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN084343.D

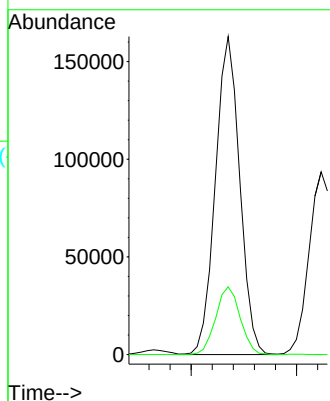
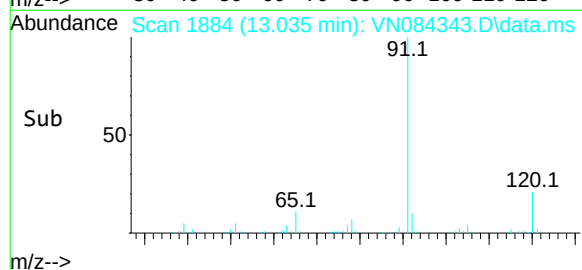
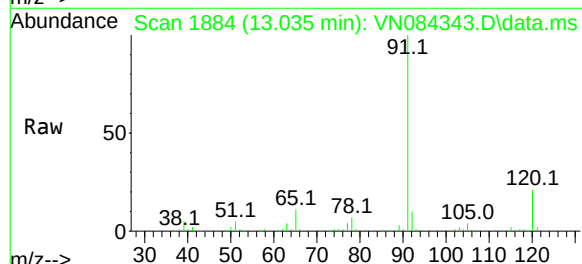
Acq: 08 Oct 2024 12:09

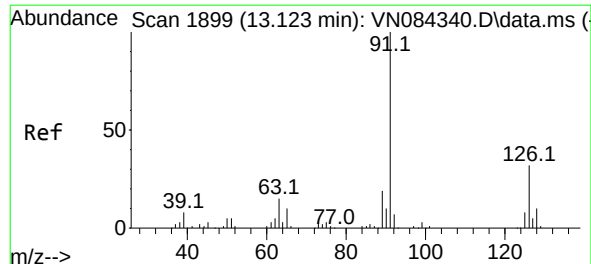
Tgt Ion: 91 Resp: 260928

Ion Ratio Lower Upper

91 100

120 21.4 0.0 43.2





#75

2-Chlorotoluene

Concen: 20.001 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion: 91 Resp: 158449

Ion Ratio Lower Upper

91 100

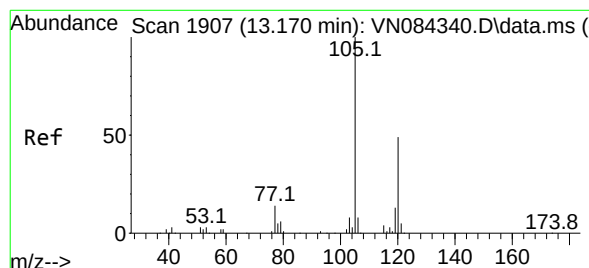
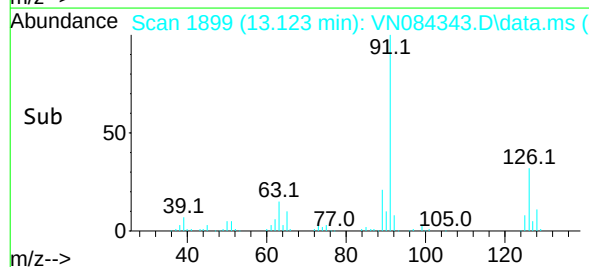
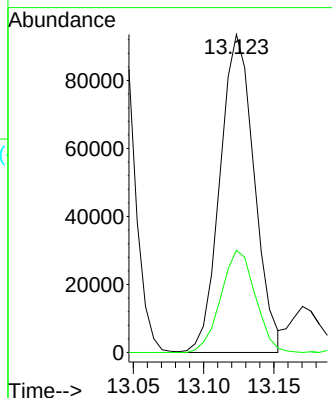
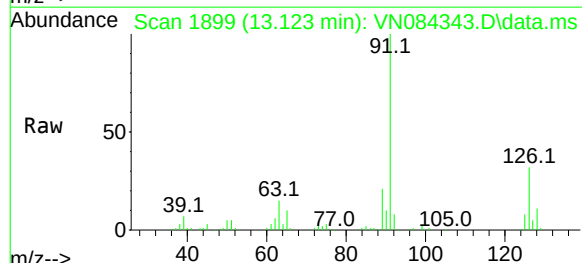
126 32.3 0.0 64.0

Manual Integrations

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Reviewed By :John Carlone 10/09/2024

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#76

1,3,5-Trimethylbenzene

Concen: 20.196 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN084343.D

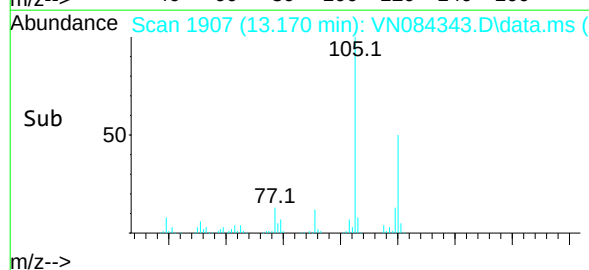
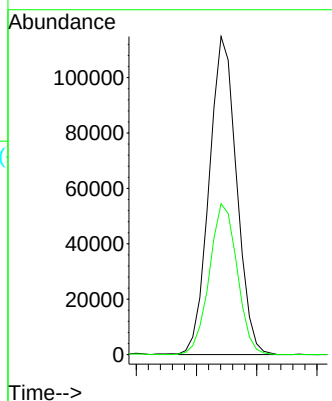
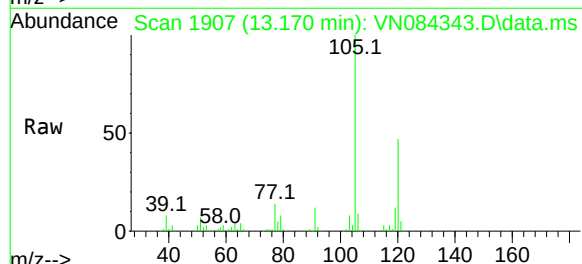
Acq: 08 Oct 2024 12:09

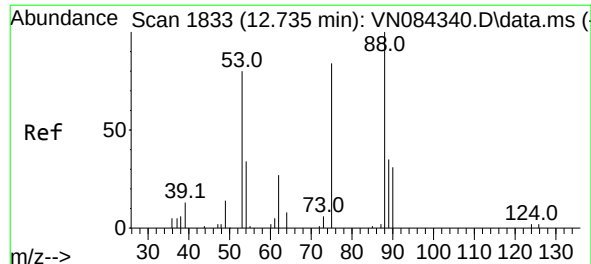
Tgt Ion:105 Resp: 181926

Ion Ratio Lower Upper

105 100

120 48.0 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 18.889 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN084343.D

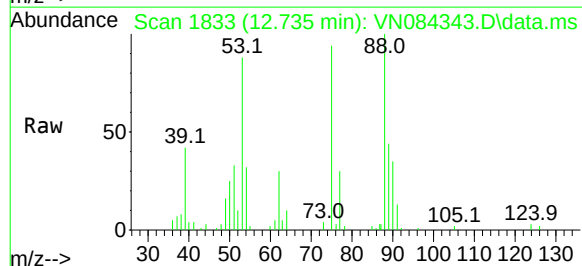
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

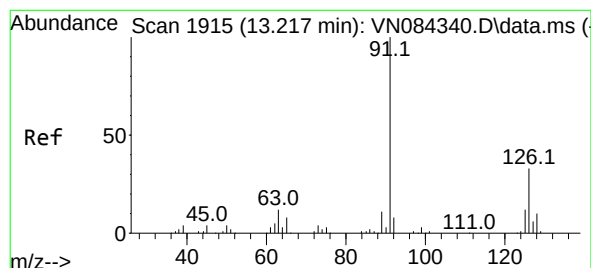
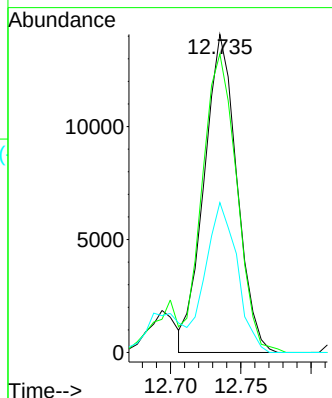
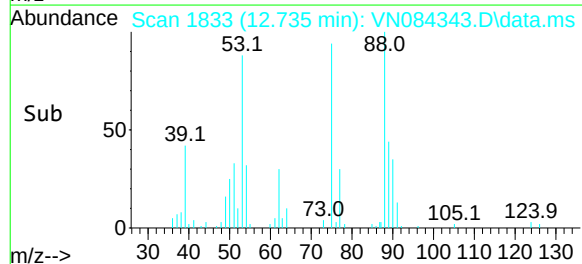
ICVVN100824



Tgt Ion:	75	Resp:	22878
Ion	Ratio	Lower	Upper
75	100		
53	92.7	47.3	142.0
89	47.1	22.9	68.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#78

4-Chlorotoluene

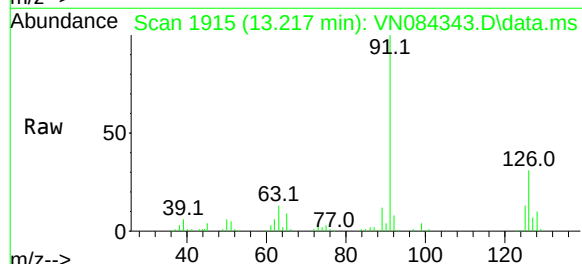
Concen: 20.008 ug/l

RT: 13.217 min Scan# 1915

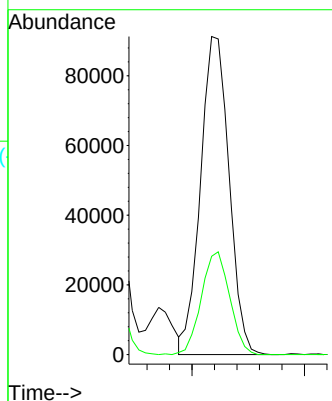
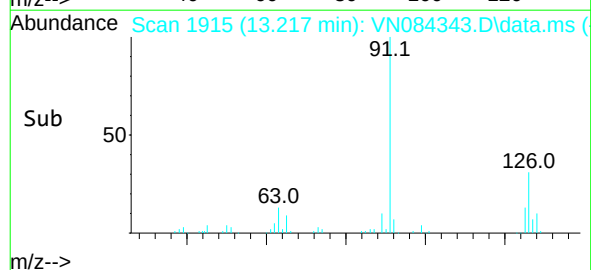
Delta R.T. 0.000 min

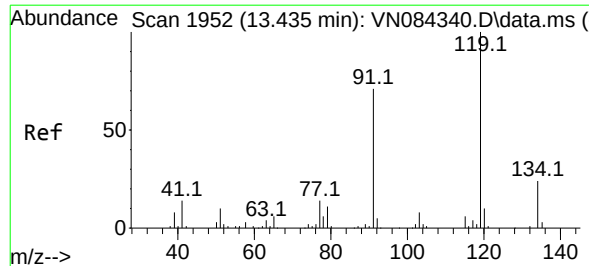
Lab File: VN084343.D

Acq: 08 Oct 2024 12:09



Tgt Ion:	91	Resp:	161150
Ion	Ratio	Lower	Upper
91	100		
126	32.0	0.0	62.4





#79

tert-butylbenzene

Concen: 20.197 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

Tgt Ion:119 Resp: 155215

Ion Ratio Lower Upper

119 100

91 68.1 0.0 138.0

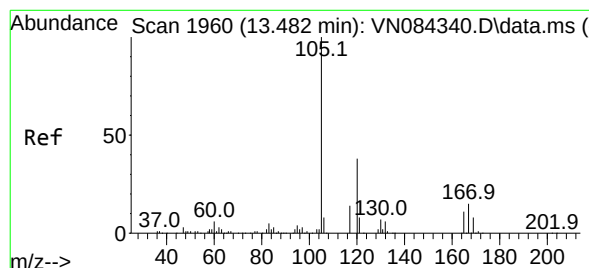
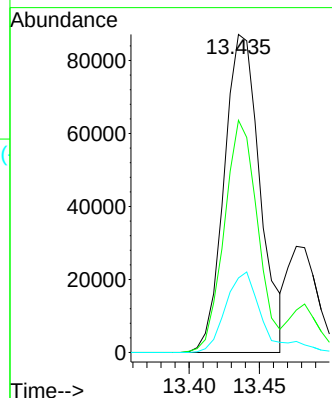
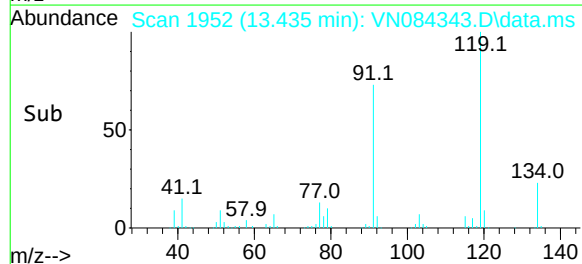
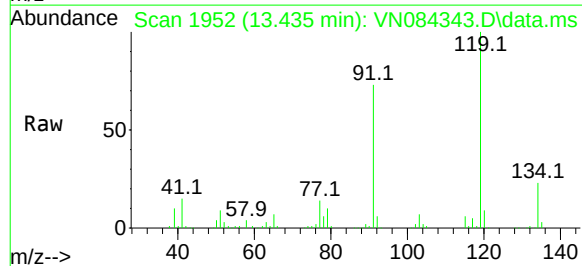
134 23.5 0.0 48.8

Manual Integrations

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Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#80

1,2,4-Trimethylbenzene

Concen: 20.399 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084343.D

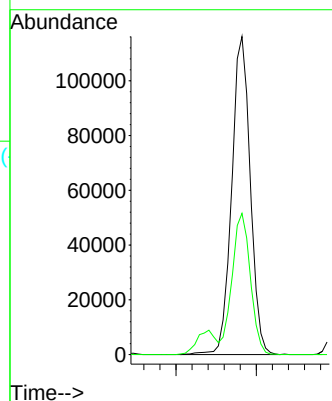
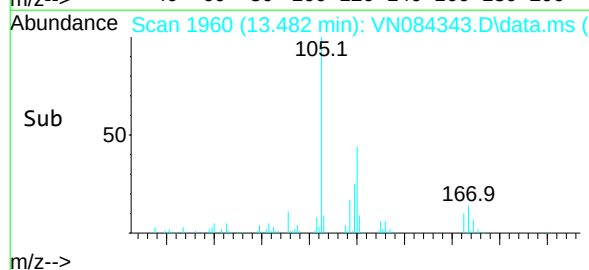
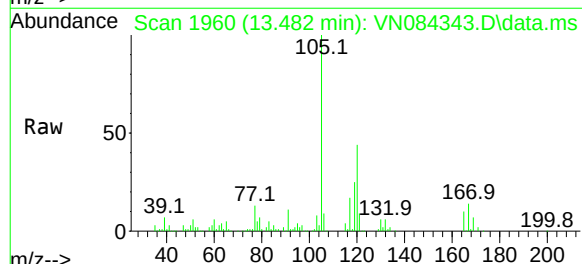
Acq: 08 Oct 2024 12:09

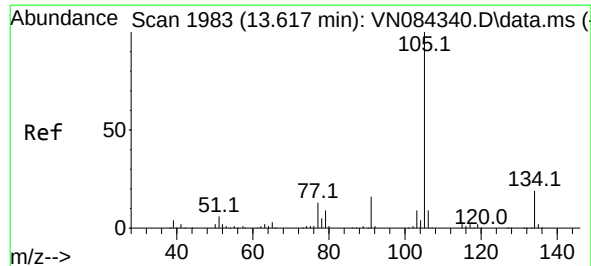
Tgt Ion:105 Resp: 186446

Ion Ratio Lower Upper

105 100

120 44.1 0.0 88.8





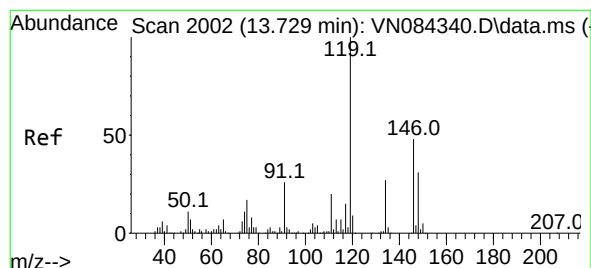
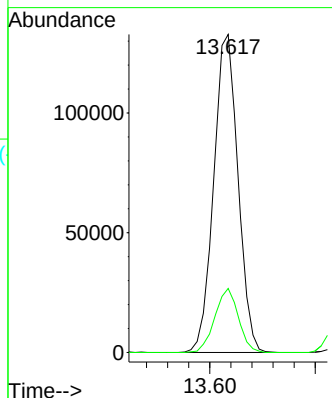
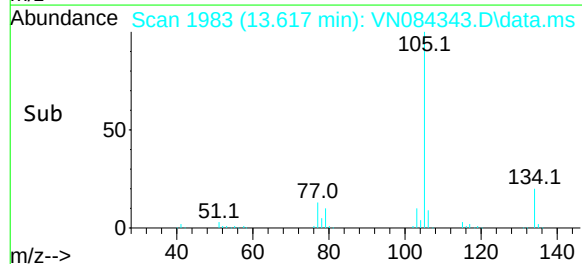
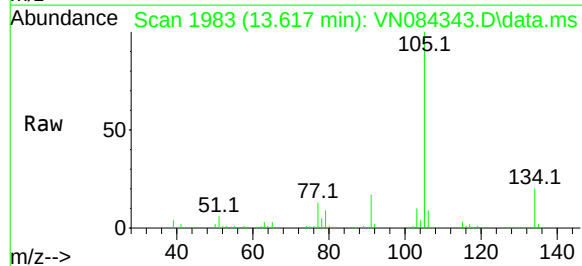
#81
sec-Butylbenzene
Concen: 20.077 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN084343.D
Acq: 08 Oct 2024 12:09

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100824

Tgt Ion:105 Resp: 212421
Ion Ratio Lower Upper
105 100
134 19.5 0.0 38.0

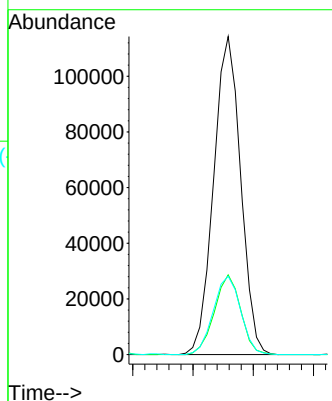
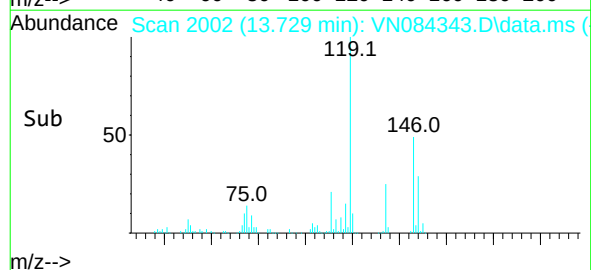
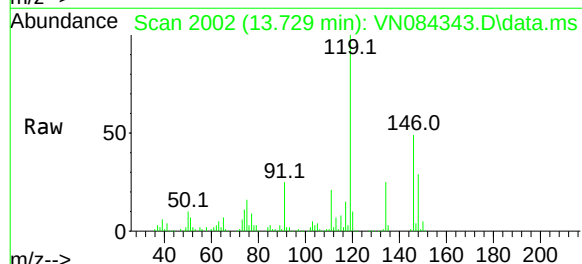
Manual Integrations
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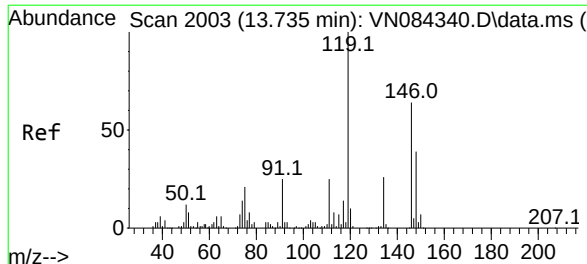
Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#82
p-Isopropyltoluene
Concen: 20.018 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084343.D
Acq: 08 Oct 2024 12:09

Tgt Ion:119 Resp: 178265
Ion Ratio Lower Upper
119 100
134 24.4 0.0 50.2
91 25.0 0.0 50.6





#83

1,3-Dichlorobenzene

Concen: 19.955 ug/l

RT: 13.729 min Scan# 2003

Delta R.T. -0.006 min

Lab File: VN084343.D

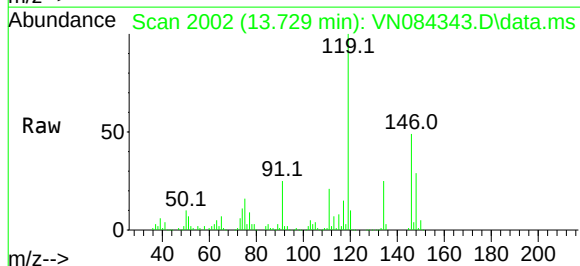
Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

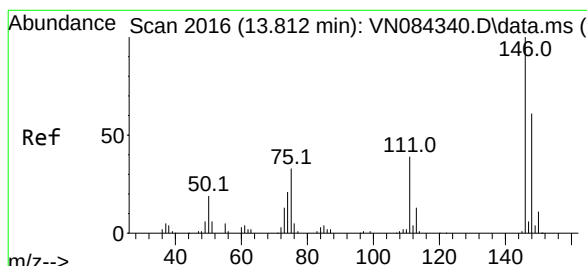
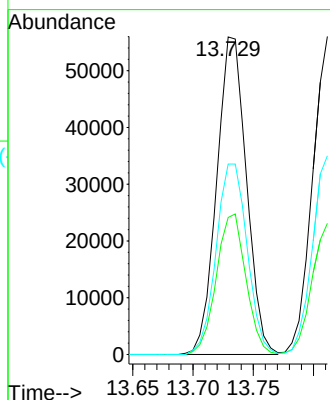
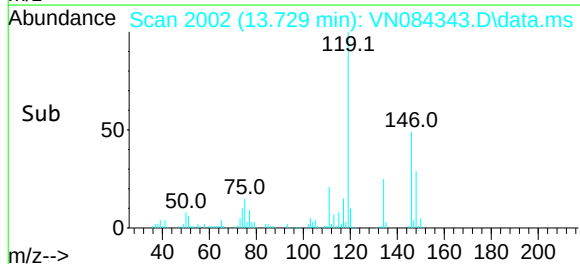
ICVVN100824



Tgt Ion:	146	Resp:	96137
Ion Ratio	Lower	Upper	
146	100		
111	44.0	20.6	61.9
148	62.5	31.6	94.7

Manual Integrations
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Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#84

1,4-Dichlorobenzene

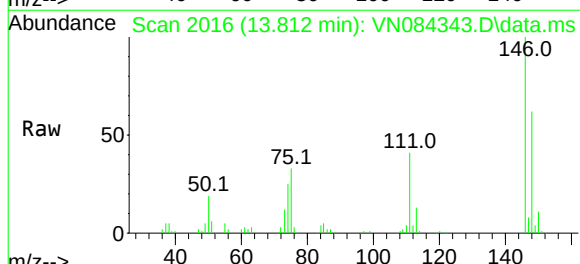
Concen: 19.380 ug/l

RT: 13.812 min Scan# 2016

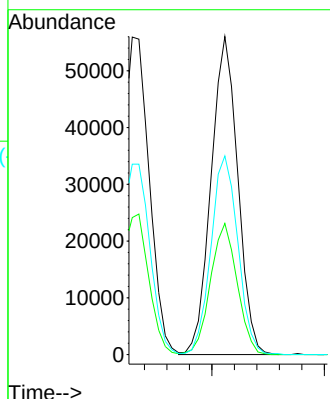
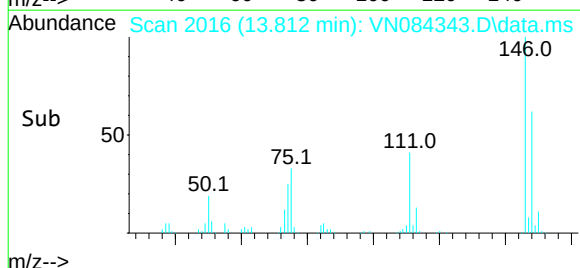
Delta R.T. -0.000 min

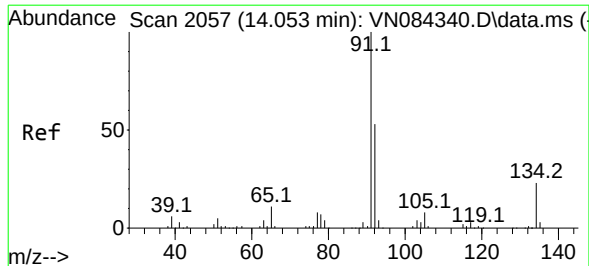
Lab File: VN084343.D

Acq: 08 Oct 2024 12:09



Tgt Ion:	146	Resp:	92714
Ion Ratio	Lower	Upper	
146	100		
111	41.1	20.5	61.5
148	62.8	32.5	97.4





#85

n-Butylbenzene

Concen: 19.215 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

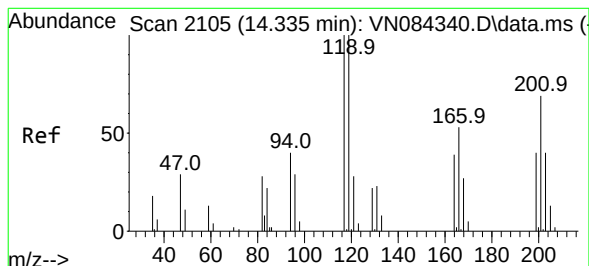
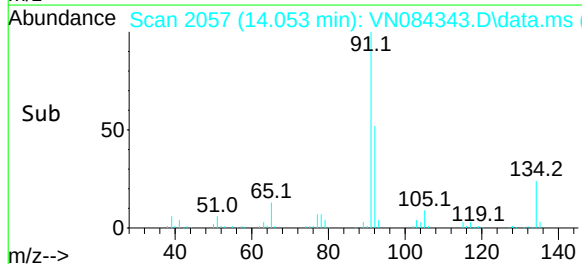
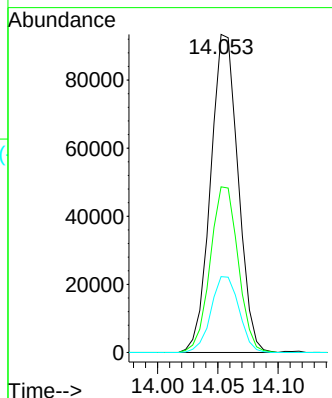
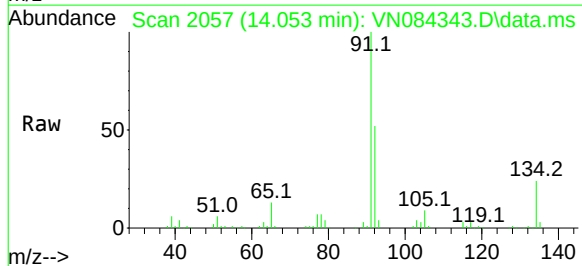
ClientSampleId :

ICVVN100824

Tgt Ion:	91	Resp:	148207
Ion	Ratio	Lower	Upper
91	100		
92	53.0	0.0	103.4
134	24.3	0.0	48.0

Manual Integrations
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Reviewed By :John Carlone 10/09/2024
Supervised By :Mahesh Dadoda 10/09/2024



#86

Hexachloroethane

Concen: 20.356 ug/l

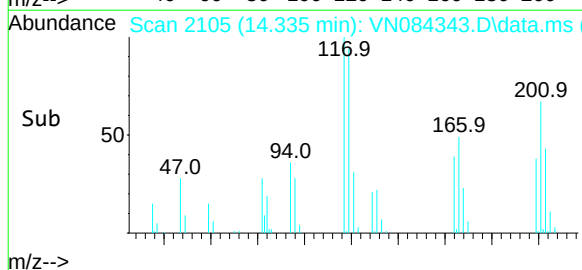
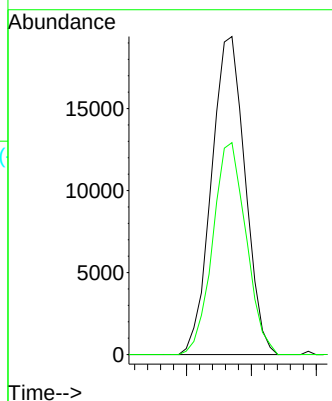
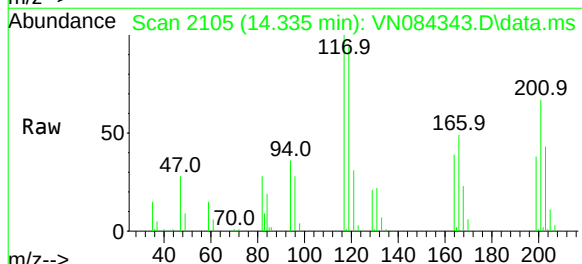
RT: 14.335 min Scan# 2105

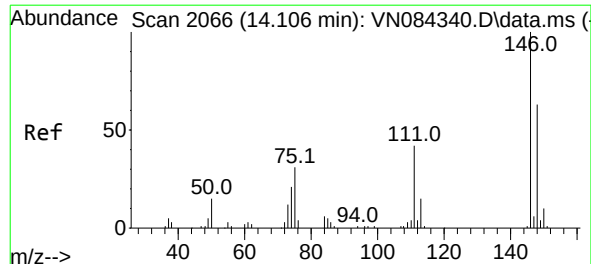
Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	117	Resp:	34925
Ion	Ratio	Lower	Upper
117	100		
201	66.0	33.9	101.6





#87

1,2-Dichlorobenzene

Concen: 19.610 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

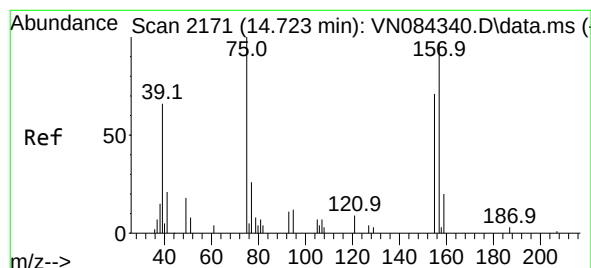
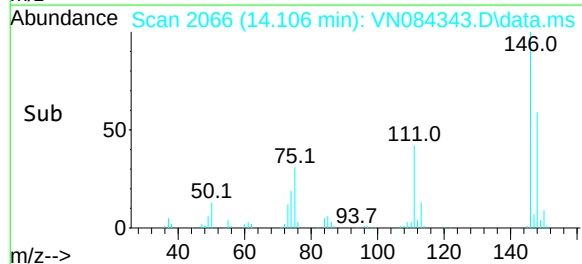
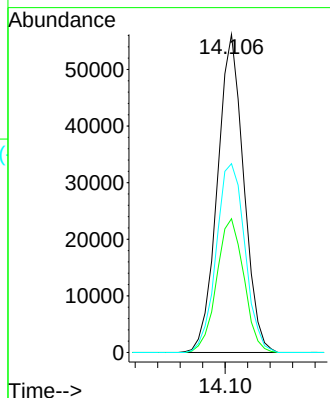
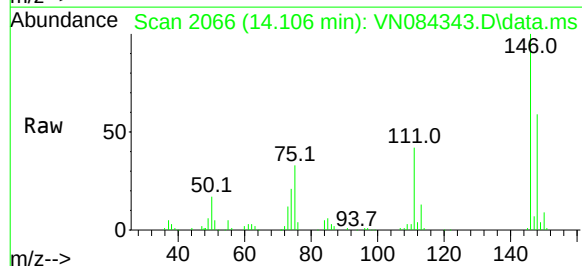
Tgt Ion:	146	Resp:	91342
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.9	65.5
148	64.7	31.1	93.5

Manual Integrations

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Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.815 ug/l

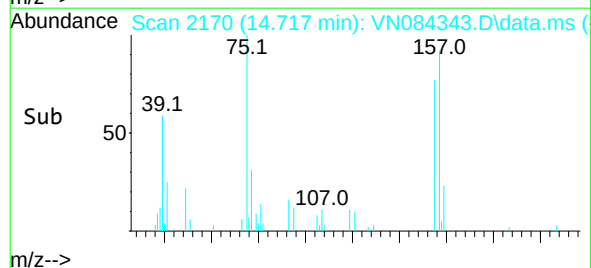
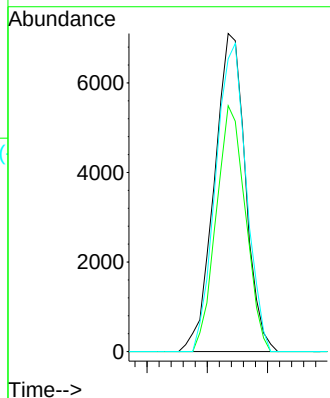
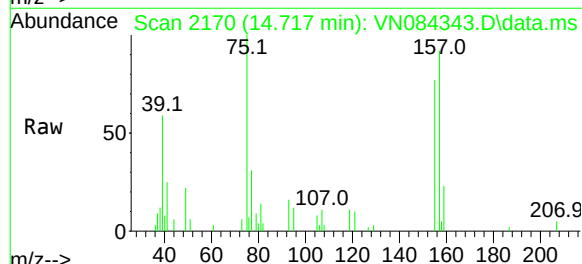
RT: 14.717 min Scan# 2170

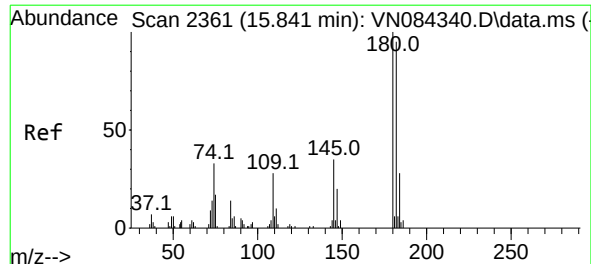
Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	75	Resp:	12734
Ion	Ratio	Lower	Upper
75	100		
155	72.7	61.8	92.8
157	95.1	77.4	116.0





#89

1,2,4-Trichlorobenzene

Concen: 18.038 ug/l

RT: 15.835 min Scan# 2361

Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

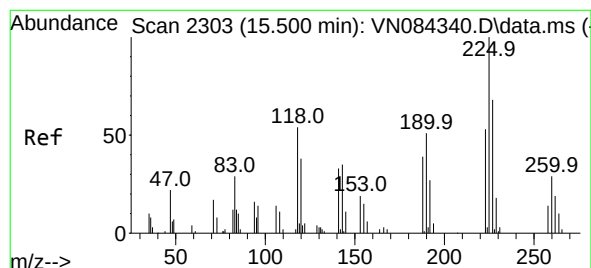
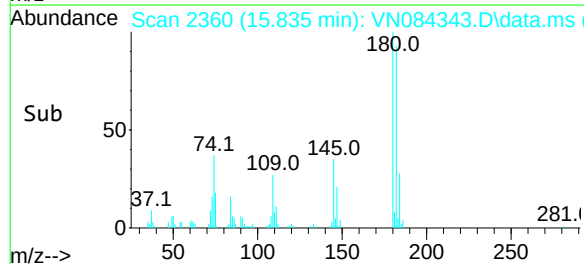
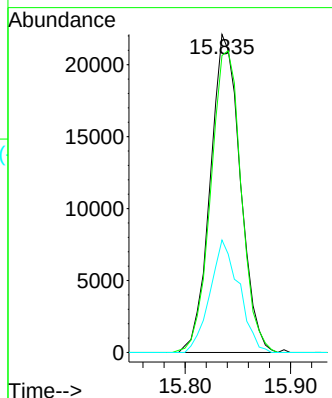
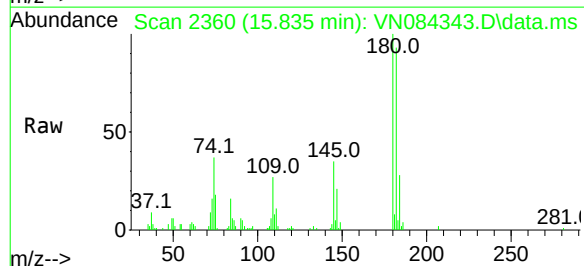
Tgt Ion:	180	Resp:	43683
Ion Ratio	Lower	Upper	
180	100		
182	96.4	77.8	116.6
145	34.4	28.9	43.3

Manual Integrations

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Supervised By :Mahesh Dadoda 10/09/2024



#90

Hexachlorobutadiene

Concen: 19.335 ug/l

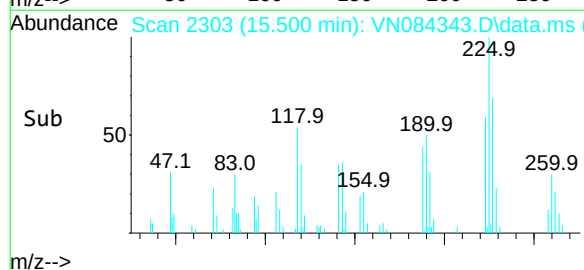
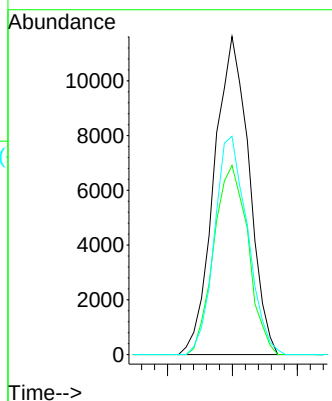
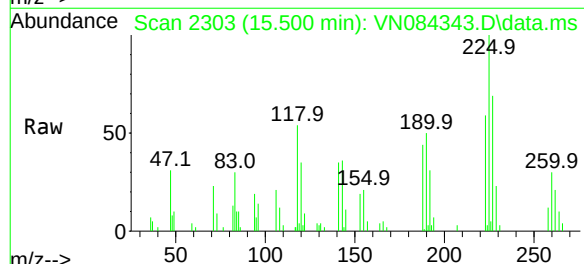
RT: 15.500 min Scan# 2303

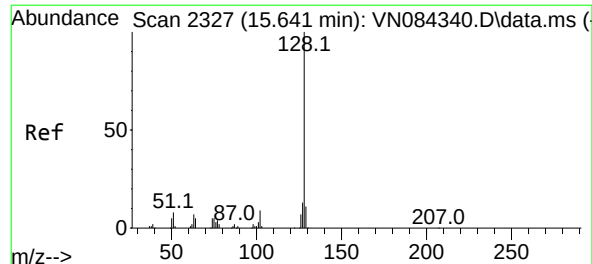
Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	225	Resp:	21663
Ion Ratio	Lower	Upper	
225	100		
223	58.4	0.0	124.0
227	65.1	0.0	130.8





#91

Naphthalene

Concen: 16.790 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100824

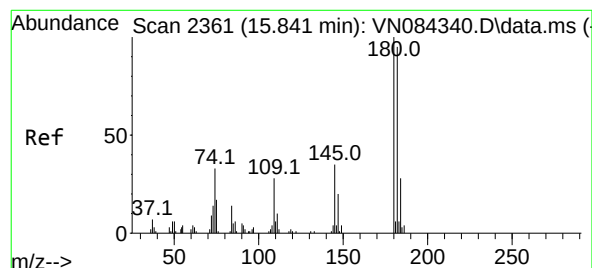
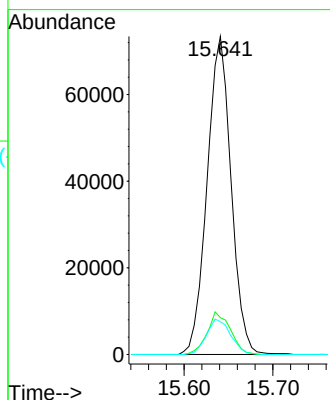
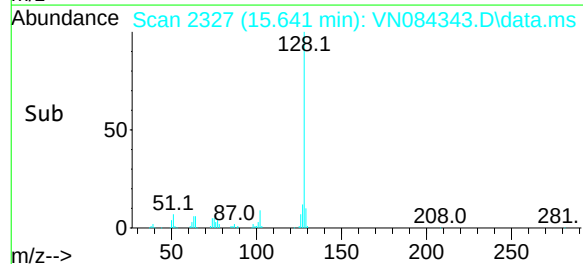
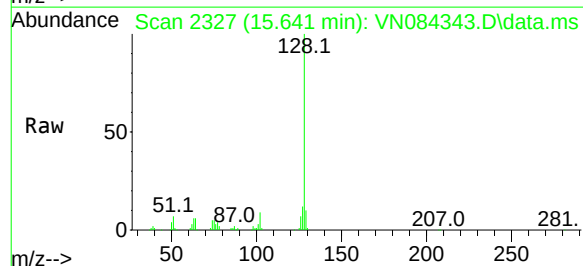
Tgt Ion:	128	Resp:	137791
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.2	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/09/2024

Supervised By :Mahesh Dadoda 10/09/2024



#92

1,2,3-Trichlorobenzene

Concen: 18.038 ug/l

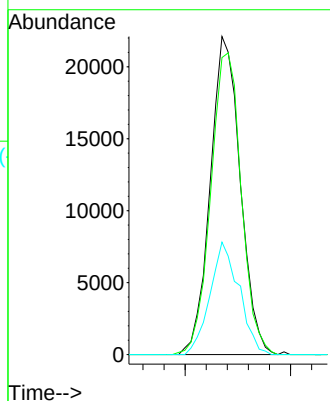
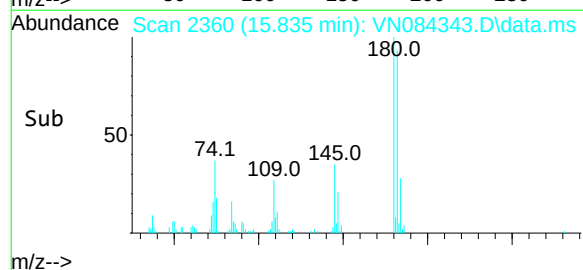
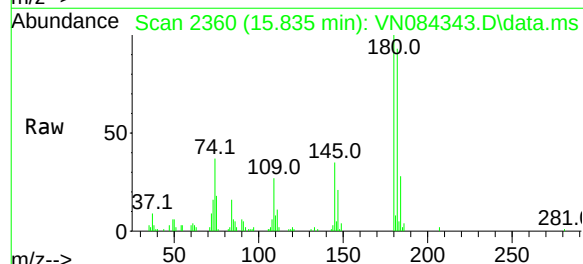
RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN084343.D

Acq: 08 Oct 2024 12:09

Tgt Ion:	180	Resp:	43683
Ion	Ratio	Lower	Upper
180	100		
182	96.4	0.0	194.4
145	34.4	0.0	72.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084343.D
 Acq On : 08 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN100824

Quant Time: Oct 09 02:27:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 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	103	0.00
2 M	Dichlorodifluoromethane	1.832	1.811	1.1	97	0.00
3 M	Chloromethane	2.084	2.079	0.2	100	0.00
4 M	Vinyl Chloride	2.044	2.070	-1.3	102	0.00
5 M	Bromomethane	1.354	1.335	1.4	97	0.00
6 M	Chloroethane	1.340	1.370	-2.2	101	0.00
7 M	Trichlorofluoromethane	3.329	3.232	2.9	98	0.00
8 T	Diethyl Ether	1.224	1.196	2.3	100	0.00
9	1,1,2-Trichlorotrifluoroeth	1.872	1.922	-2.7	105	0.01
10 M	1,1-Dichloroethene	1.868	1.806	3.3	102	0.00
11	Methyl Iodide	2.455	2.363	3.7	99	0.00
12	Methyl Acetate	2.339	2.219	5.1	100	0.00
13 M	Acrolein	0.434	0.410	5.5	105	0.00
14 M	Acrylonitrile	1.051	0.975	7.2	94	0.00
15 M	Acetone	0.300	0.333	-11.0	120	0.00
16 M	Carbon Disulfide	5.562	5.286	5.0	96	0.00
17	Allyl chloride	3.028	2.886	4.7	96	0.00
18 M	Methylene Chloride	2.104	2.118	-0.7	102	0.00
19 M	trans-1,2-Dichloroethene	1.977	1.921	2.8	99	0.00
20 T	Diisopropyl ether	6.510	6.628	-1.8	103	0.00
21 M	1,1-Dichloroethane	3.736	3.726	0.3	100	0.00
22 M	cis-1,2-Dichloroethene	2.300	2.294	0.3	100	0.00
23 M	tert-Butyl Alcohol	0.403	0.361	10.4	94	0.00
24 M	Methyl tert-Butyl Ether	6.242	6.148	1.5	101	0.00
25 M	Chloroform	3.783	3.847	-1.7	102	0.00
26	Cyclohexane	3.124	2.957	5.3	93	0.00
27 s	1,2-Dichloroethane-d4	2.415	2.416	-0.0	101	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
29	1,1-Dichloropropene	0.492	0.493	-0.2	100	0.00
30 M	2-Butanone	0.262	0.264	-0.8	103	0.00
31	2,2-Dichloropropane	0.579	0.608	-5.0	106	0.00
32 M	1,1,1-Trichloroethane	0.629	0.647	-2.9	100	0.00
33 M	Carbon Tetrachloride	0.545	0.546	-0.2	101	0.00
34 M	Benzene	1.542	1.557	-1.0	100	0.00
35	Methacrylonitrile	0.280	0.273	2.5	100	0.00
36 M	1,2-Dichloroethane	0.514	0.522	-1.6	100	0.00
37 M	Trichloroethene	0.355	0.360	-1.4	99	0.00
38	Methylcyclohexane	0.541	0.536	0.9	103	0.00
39 M	1,2-Dichloropropane	0.376	0.384	-2.1	100	0.00
40	Dibromomethane	0.263	0.266	-1.1	101	0.00
41 M	Bromodichloromethane	0.558	0.560	-0.4	100	0.00
42 M	Vinyl Acetate	0.912	0.901	1.2	102	0.00
43	Ethyl Acetate	0.517	0.490	5.2	96	0.00
44	Isopropyl Acetate	0.846	0.822	2.8	98	0.00
45 T	1,4-Dioxane	0.008	0.007	12.5	96	0.00
46	Methyl methacrylate	0.409	0.396	3.2	98	0.00
47	n-amyl Acetate	0.753	0.731	2.9	99	0.00
48 M	t-1,3-Dichloropropene	0.576	0.579	-0.5	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084343.D
 Acq On : 08 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN100824

Quant Time: Oct 09 02:27:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 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	0.622	-3.0	102	0.00
50 M	1,1,2-Trichloroethane	0.353	0.354	-0.3	100	0.00
51	Ethyl methacrylate	0.583	0.573	1.7	100	0.00
52	1,3-Dichloropropane	0.617	0.620	-0.5	99	0.00
53 M	Dibromochloromethane	0.417	0.422	-1.2	102	0.00
54 M	1,2-Dibromoethane	0.364	0.355	2.5	96	0.00
55 M	2-Chloroethyl vinyl ether	0.265	0.233	12.1	93	0.00
56 M	Bromoform	0.277	0.278	-0.4	106	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
58 M	4-Methyl-2-Pentanone	0.559	0.544	2.7	97	0.00
59 M	2-Hexanone	0.415	0.413	0.5	101	0.00
60 S	4-Bromofluorobenzene	0.495	0.508	-2.6	103	0.00
61 M	Tetrachloroethene	0.339	0.347	-2.4	102	0.00
62 M	Toluene	1.756	1.805	-2.8	102	0.00
63 S	Toluene-d8	1.390	1.407	-1.2	101	0.00
64 M	Chlorobenzene	1.093	1.091	0.2	100	0.00
65	1,1,1,2-Tetrachloroethane	0.380	0.383	-0.8	100	0.00
66 M	Ethyl Benzene	1.908	1.912	-0.2	101	0.00
67 M	m/p-Xylenes	0.724	0.749	-3.5	103	0.00
68 M	o-Xylene	0.698	0.700	-0.3	101	0.00
69 M	Styrene	1.198	1.205	-0.6	102	0.00
70	Isopropylbenzene	1.781	1.774	0.4	99	0.00
71 M	1,1,2,2-Tetrachloroethane	0.551	0.549	0.4	100	0.00
72	1,2,3-Trichloropropane	0.472	0.532	-12.7	114	0.00
73	Bromobenzene	0.431	0.431	0.0	101	0.00
74	n-propylbenzene	2.123	2.172	-2.3	103	0.00
75	2-Chlorotoluene	1.319	1.319	0.0	100	0.00
76	1,3,5-Trimethylbenzene	1.500	1.514	-0.9	102	0.00
77	t-1,4-Dichloro-2-butene	0.202	0.190	5.9	102	0.00
78	4-Chlorotoluene	1.341	1.341	0.0	101	0.00
79	tert-butylbenzene	1.279	1.292	-1.0	102	0.00
80	1,2,4-Trimethylbenzene	1.522	1.552	-2.0	103	0.00
81	sec-Butylbenzene	1.762	1.768	-0.3	101	0.00
82	p-Isopropyltoluene	1.483	1.484	-0.1	103	0.00
83 M	1,3-Dichlorobenzene	0.802	0.800	0.2	101	0.00
84 M	1,4-Dichlorobenzene	0.796	0.772	3.0	101	0.00
85	n-Butylbenzene	1.284	1.234	3.9	103	0.00
86 T	Hexachloroethane	0.286	0.291	-1.7	104	0.00
87 M	1,2-Dichlorobenzene	0.775	0.760	1.9	100	0.00
88	1,2-Dibromo-3-Chloropropane	0.113	0.106	6.2	96	0.00
89	1,2,4-Trichlorobenzene	0.403	0.364	9.7	95	0.00
90	Hexachlorobutadiene	0.187	0.180	3.7	104	0.00
91 M	Naphthalene	1.366	1.147	16.0	89	0.00
92	1,2,3-Trichlorobenzene	0.403	0.364	9.7	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084343.D
 Acq On : 08 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN100824

Quant Time: Oct 09 02:27:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 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	103	0.00
2 M	Dichlorodifluoromethane	20.000	19.774	1.1	97	0.00
3 M	Chloromethane	20.000	19.953	0.2	100	0.00
4 M	Vinyl Chloride	20.000	20.252	-1.3	102	0.00
5 M	Bromomethane	20.000	19.713	1.4	97	0.00
6 M	Chloroethane	20.000	20.448	-2.2	101	0.00
7 M	Trichlorofluoromethane	20.000	19.412	2.9	98	0.00
8 T	Diethyl Ether	20.000	19.540	2.3	100	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.532	-2.7	105	0.01
10 M	1,1-Dichloroethene	20.000	19.334	3.3	102	0.00
11	Methyl Iodide	20.000	19.255	3.7	99	0.00
12	Methyl Acetate	20.000	18.975	5.1	100	0.00
13 M	Acrolein	100.000	94.270	5.7	105	0.00
14 M	Acrylonitrile	100.000	92.817	7.2	94	0.00
15 M	Acetone	100.000	111.112	-11.1	120	0.00
16 M	Carbon Disulfide	20.000	19.006	5.0	96	0.00
17	Allyl chloride	20.000	19.060	4.7	96	0.00
18 M	Methylene Chloride	20.000	20.135	-0.7	102	0.00
19 M	trans-1,2-Dichloroethene	20.000	19.434	2.8	99	0.00
20 T	Diisopropyl ether	20.000	20.360	-1.8	103	0.00
21 M	1,1-Dichloroethane	20.000	19.948	0.3	100	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.943	0.3	100	0.00
23 M	tert-Butyl Alcohol	100.000	89.659	10.3	94	0.00
24 M	Methyl tert-Butyl Ether	20.000	19.696	1.5	101	0.00
25 M	Chloroform	20.000	20.334	-1.7	102	0.00
26	Cyclohexane	20.000	18.931	5.3	93	0.00
27 s	1,2-Dichloroethane-d4	30.000	30.009	-0.0	101	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	100	0.00
29	1,1-Dichloropropene	20.000	20.028	-0.1	100	0.00
30 M	2-Butanone	100.000	100.675	-0.7	103	0.00
31	2,2-Dichloropropane	20.000	21.007	-5.0	106	0.00
32 M	1,1,1-Trichloroethane	20.000	20.543	-2.7	100	0.00
33 M	Carbon Tetrachloride	20.000	20.040	-0.2	101	0.00
34 M	Benzene	20.000	20.195	-1.0	100	0.00
35	Methacrylonitrile	20.000	19.515	2.4	100	0.00
36 M	1,2-Dichloroethane	20.000	20.321	-1.6	100	0.00
37 M	Trichloroethene	20.000	20.265	-1.3	99	0.00
38	Methylcyclohexane	20.000	19.810	1.0	103	0.00
39 M	1,2-Dichloropropane	20.000	20.404	-2.0	100	0.00
40	Dibromomethane	20.000	20.242	-1.2	101	0.00
41 M	Bromodichloromethane	20.000	20.087	-0.4	100	0.00
42 M	Vinyl Acetate	100.000	98.798	1.2	102	0.00
43	Ethyl Acetate	20.000	18.961	5.2	96	0.00
44	Isopropyl Acetate	20.000	19.419	2.9	98	0.00
45 T	1,4-Dioxane	400.000	360.927	9.8	96	0.00
46	Methyl methacrylate	20.000	19.353	3.2	98	0.00
47	n-amyl Acetate	20.000	19.421	2.9	99	0.00
48 M	t-1,3-Dichloropropene	20.000	20.107	-0.5	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084343.D
 Acq On : 08 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN100824

Quant Time: Oct 09 02:27:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 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	20.591	-3.0	102	0.00
50 M	1,1,2-Trichloroethane	20.000	20.034	-0.2	100	0.00
51	Ethyl methacrylate	20.000	19.639	1.8	100	0.00
52	1,3-Dichloropropane	20.000	20.070	-0.4	99	0.00
53 M	Dibromochloromethane	20.000	20.221	-1.1	102	0.00
54 M	1,2-Dibromoethane	20.000	19.530	2.3	96	0.00
55 M	2-Chloroethyl vinyl ether	100.000	88.171	11.8	93	0.00
56 M	Bromoform	20.000	20.113	-0.6	106	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	100	0.00
58 M	4-Methyl-2-Pentanone	100.000	97.392	2.6	97	0.00
59 M	2-Hexanone	100.000	99.486	0.5	101	0.00
60 S	4-Bromofluorobenzene	30.000	30.784	-2.6	103	0.00
61 M	Tetrachloroethene	20.000	20.477	-2.4	102	0.00
62 M	Toluene	20.000	20.551	-2.8	102	0.00
63 S	Toluene-d8	30.000	30.377	-1.3	101	0.00
64 M	Chlorobenzene	20.000	19.960	0.2	100	0.00
65	1,1,1,2-Tetrachloroethane	20.000	20.169	-0.8	100	0.00
66 M	Ethyl Benzene	20.000	20.038	-0.2	101	0.00
67 M	m/p-Xylenes	40.000	41.370	-3.4	103	0.00
68 M	o-Xylene	20.000	20.070	-0.4	101	0.00
69 M	Styrene	20.000	20.124	-0.6	102	0.00
70	Isopropylbenzene	20.000	19.923	0.4	99	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	19.932	0.3	100	0.00
72	1,2,3-Trichloropropane	20.000	22.527	-12.6	114	0.00
73	Bromobenzene	20.000	19.992	0.0	101	0.00
74	n-propylbenzene	20.000	20.467	-2.3	103	0.00
75	2-Chlorotoluene	20.000	20.001	-0.0	100	0.00
76	1,3,5-Trimethylbenzene	20.000	20.196	-1.0	102	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.889	5.6	102	0.00
78	4-Chlorotoluene	20.000	20.008	-0.0	101	0.00
79	tert-butylbenzene	20.000	20.197	-1.0	102	0.00
80	1,2,4-Trimethylbenzene	20.000	20.399	-2.0	103	0.00
81	sec-Butylbenzene	20.000	20.077	-0.4	101	0.00
82	p-Isopropyltoluene	20.000	20.018	-0.1	103	0.00
83 M	1,3-Dichlorobenzene	20.000	19.955	0.2	101	0.00
84 M	1,4-Dichlorobenzene	20.000	19.380	3.1	101	0.00
85	n-Butylbenzene	20.000	19.215	3.9	103	0.00
86 T	Hexachloroethane	20.000	20.356	-1.8	104	0.00
87 M	1,2-Dichlorobenzene	20.000	19.610	2.0	100	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	18.815	5.9	96	0.00
89	1,2,4-Trichlorobenzene	20.000	18.038	9.8	95	0.00
90	Hexachlorobutadiene	20.000	19.335	3.3	104	0.00
91 M	Naphthalene	20.000	16.790	16.1	89	0.00
92	1,2,3-Trichlorobenzene	20.000	18.038	9.8	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 10:04

Lab File ID: VN084504.D Init. Calib. Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:43 11:19

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.832	1.676		-8.52	
Chloromethane	2.084	1.831		-12.14	
Vinyl Chloride	2.044	1.874	0.1	-8.32	
Bromomethane	1.354	1.189	0.1	-12.19	
Chloroethane	1.340	1.274		-4.93	
Trichlorofluoromethane	3.329	3.123		-6.19	
1,1,2-Trichlorotrifluoroethane	1.872	1.862		-0.53	
1,1-Dichloroethene	1.868	1.715	0.1	-8.19	
Acrolein	0.434	0.431		-0.69	
Acrylonitrile	1.051	0.953		-9.32	
Acetone	0.300	0.368		22.67	
Carbon Disulfide	5.562	4.632		-16.72	
Methyl tert-Butyl Ether	6.242	5.963		-4.47	
Methyl Acetate	2.339	2.483		6.16	
Methylene Chloride	2.104	1.939		-7.84	
trans-1,2-Dichloroethene	1.977	1.797		-9.1	
1,1-Dichloroethane	3.736	3.621	0.2	-3.08	
Cyclohexane	0.570	0.489		-14.21	
2-Butanone	0.262	0.252		-3.82	
Carbon Tetrachloride	0.545	0.504	0.1	-7.52	
2,2-Dichloropropane	0.579	0.569		-1.73	
cis-1,2-Dichloroethene	2.300	2.240		-2.61	
Chloroform	3.783	3.824	0.2	1.08	
1,1,1-Trichloroethane	0.629	0.603	0.1	-4.13	
Methylcyclohexane	0.541	0.486		-10.17	
1,1-Dichloropropene	0.492	0.447		-9.15	
Benzene	1.542	1.442	0.5	-6.49	
1,2-Dichloroethane	0.514	0.488	0.1	-5.06	
Trichloroethene	0.355	0.335	0.3	-5.63	
1,2-Dichloropropane	0.376	0.353		-6.12	
Dibromomethane	0.263	0.248		-5.7	
Bromodichloromethane	0.558	0.524	0.2	-6.09	
4-Methyl-2-Pentanone	0.559	0.530		-5.19	
Toluene	1.756	1.683	0.4	-4.16	
t-1,3-Dichloropropene	0.576	0.532	0.1	-7.64	
cis-1,3-Dichloropropene	0.604	0.565	0.2	-6.46	
1,1,2-Trichloroethane	0.353	0.335	0.1	-5.1	
1,3-Dichloropropane	0.617	0.579		-6.16	

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 10:04

Lab File ID: VN084504.D Init. Calib. Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:43 11:19

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.415	0.406		-2.17	
Dibromochloromethane	0.417	0.392	0.1	-5.99	
1,2-Dibromoethane	0.364	0.334		-8.24	
Tetrachloroethene	0.339	0.348	0.2	2.65	
Chlorobenzene	1.093	1.036	0.5	-5.22	
1,1,1,2-Tetrachloroethane	0.380	0.376		-1.05	
Hexachloroethane	0.286	0.267		-6.64	
Ethyl Benzene	1.908	1.839	0.1	-3.62	
m/p-Xylenes	0.724	0.700	0.3	-3.32	
o-Xylene	0.698	0.660	0.3	-5.44	
Styrene	1.198	1.135	0.3	-5.26	
Bromoform	0.277	0.257	0.1	-7.22	
Isopropylbenzene	1.781	1.702		-4.44	
1,1,2,2-Tetrachloroethane	0.551	0.534	0.3	-3.09	
1,2,3-Trichloropropane	0.472	0.431		-8.69	
Bromobenzene	0.431	0.413		-4.18	
n-propylbenzene	2.123	2.073		-2.36	
2-Chlorotoluene	1.319	1.281		-2.88	
1,3,5-Trimethylbenzene	1.500	1.481		-1.27	
4-Chlorotoluene	1.341	1.299		-3.13	
tert-butylbenzene	1.279	1.245		-2.66	
1,2,4-Trimethylbenzene	1.522	1.452		-4.6	
sec-Butylbenzene	1.762	1.726		-2.04	
p-Isopropyltoluene	1.483	1.429		-3.64	
1,3-Dichlorobenzene	0.802	0.774	0.2	-3.49	
1,4-Dichlorobenzene	0.796	0.772	0.2	-3.02	
n-Butylbenzene	1.284	1.218		-5.14	
1,2-Dichlorobenzene	0.775	0.774	0.2	-0.13	
1,2-Dibromo-3-Chloropropane	0.113	0.109		-3.54	
1,2,4-Trichlorobenzene	0.403	0.370	0.2	-8.19	
Hexachlorobutadiene	0.187	0.184		-1.6	
Naphthalene	1.366	1.162		-14.93	
1,2,3-Trichlorobenzene	0.403	0.370		-8.19	
1,2-Dichloroethane-d4	2.415	2.412	0.01	-0.12	
Toluene-d8	1.390	1.390	0.01	0	
4-Bromofluorobenzene	0.495	0.511	0.2	3.23	
Methyl Iodide	2.455	2.262		-7.86	
Methyl methacrylate	0.409	0.351		-14.18	

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\VN102524\
 Data File : VN084504.D
 Acq On : 25 Oct 2024 10:04
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 26 05:24:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	35506	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	200200	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	180518	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	85643	29.960	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.867%		
60) 4-Bromofluorobenzene	12.847	95	92192	30.944	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.133%		
63) Toluene-d8	10.565	98	251001	30.014	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.033%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	39661	18.295	ug/l	98
3) Chloromethane	2.359	50	43348	17.572	ug/l	100
4) Vinyl Chloride	2.518	62	44364	18.338	ug/l	98
5) Bromomethane	2.959	94	28146	17.561	ug/l	90
6) Chloroethane	3.124	64	30160	19.017	ug/l	96
7) Trichlorofluoromethane	3.501	101	73931	18.762	ug/l	89
8) Diethyl Ether	3.959	74	27242	18.804	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	44085	19.897	ug/l	62
10) 1,1-Dichloroethene	4.342	96	40585	18.358	ug/l	91
11) Methyl Iodide	4.595	142	53535	18.427	ug/l	96
12) Methyl Acetate	5.024	43	58784	21.239	ug/l	99
13) Acrolein	4.183	56	50962	99.121	ug/l	99
14) Acrylonitrile	5.724	53	112734	90.663	ug/l	98
15) Acetone	4.430	58	43514	122.505	ug/l	98
16) Carbon Disulfide	4.712	76	109654	16.656	ug/l	100
17) Allyl chloride	5.024	41	66059	18.433	ug/l	90
18) Methylene Chloride	5.283	84	45898	18.429	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	42534	18.179	ug/l	95
20) Diisopropyl ether	6.665	45	146490	19.011	ug/l #	98
21) 1,1-Dichloroethane	6.565	63	85721	19.388	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	53018	19.473	ug/l	98
23) tert-Butyl Alcohol	5.518	59	43059	90.279	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	141150	19.105	ug/l #	84
25) Chloroform	7.965	83	90521	20.215	ug/l	98
26) Cyclohexane	8.253	56	65248	17.645	ug/l #	95
29) 1,1-Dichloropropene	8.371	75	59606	18.137	ug/l	98
30) 2-Butanone	7.483	43	168367	96.222	ug/l	100
31) 2,2-Dichloropropane	7.488	77	75888	19.650	ug/l #	82
32) 1,1,1-Trichloroethane	8.165	97	80476	19.158	ug/l	99
33) Carbon Tetrachloride	8.359	117	67238	18.476	ug/l	98
34) Benzene	8.606	78	192502	18.712	ug/l #	93
35) Methacrylonitrile	7.777	41	33984	18.205	ug/l	95
36) 1,2-Dichloroethane	8.665	62	65072	18.977	ug/l	99
37) Trichloroethene	9.353	130	44712	18.875	ug/l	88
38) Methylcyclohexane	9.600	83	64890	17.975	ug/l	98
39) 1,2-Dichloropropane	9.618	63	47058	18.758	ug/l	97
40) Dibromomethane	9.706	93	33034	18.841	ug/l	98
41) Bromodichloromethane	9.888	83	69922	18.785	ug/l	98
42) Vinyl Acetate	6.600	43	537529	88.329	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084504.D
 Acq On : 25 Oct 2024 10:04
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 26 05:24:48 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Oct 09 02:22:28 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	58695	17.008	ug/l	95
44) Isopropyl Acetate	8.688	43	129797m	22.980	ug/l	
45) 1,4-Dioxane	9.694	88	17930	352.143	ug/l	97
46) Methyl methacrylate	9.677	41	46876	17.177	ug/l	96
47) n-amyl Acetate	12.494	43	89176	17.750	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	71062	18.475	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	75370	18.697	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	44728	18.979	ug/l	96
51) Ethyl methacrylate	10.871	69	70772	18.181	ug/l	95
52) 1,3-Dichloropropane	11.159	76	77213	18.738	ug/l	99
53) Dibromochloromethane	11.359	129	52385	18.817	ug/l	99
54) 1,2-Dibromoethane	11.471	107	44557	18.368	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	156467	88.623	ug/l	99
56) Bromoform	12.576	173	34361	18.609	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	318910	94.836	ug/l	100
59) 2-Hexanone	11.194	43	244527	97.858	ug/l	100
61) Tetrachloroethene	11.106	164	41919	20.529	ug/l	98
62) Toluene	10.629	91	202597	19.171	ug/l	99
64) Chlorobenzene	11.888	112	124737	18.968	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	45259	19.810	ug/l	99
66) Ethyl Benzene	11.965	91	221348	19.279	ug/l	96
67) m/p-Xylenes	12.071	106	168410	38.666	ug/l	100
68) o-Xylene	12.394	106	79405	18.914	ug/l	99
69) Styrene	12.412	104	136543	18.946	ug/l	99
70) Isopropylbenzene	12.694	105	204870	19.115	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.935	83	64257	19.381	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	51869m	18.267	ug/l	
73) Bromobenzene	12.976	156	49657	19.131	ug/l	99
74) n-propylbenzene	13.035	91	249446	19.531	ug/l	99
75) 2-Chlorotoluene	13.123	91	154107	19.418	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	178201	19.747	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22508	18.550	ug/l	98
78) 4-Chlorotoluene	13.218	91	156277	19.368	ug/l	98
79) tert-butylbenzene	13.435	119	149853	19.464	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	174715	19.081	ug/l	99
81) sec-Butylbenzene	13.612	105	207746	19.600	ug/l	98
82) p-Isopropyltoluene	13.729	119	171934	19.272	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	93180	19.307	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	92963	19.397	ug/l	99
85) n-Butylbenzene	14.053	91	146629	18.976	ug/l	98
86) Hexachloroethane	14.329	117	32190	18.728	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	93148	19.962	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13174	19.430	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	44516	18.348	ug/l	97
90) Hexachlorobutadiene	15.500	225	22167	19.749	ug/l	95
91) Naphthalene	15.641	128	139887	17.015	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	44516	18.348	ug/l	97

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

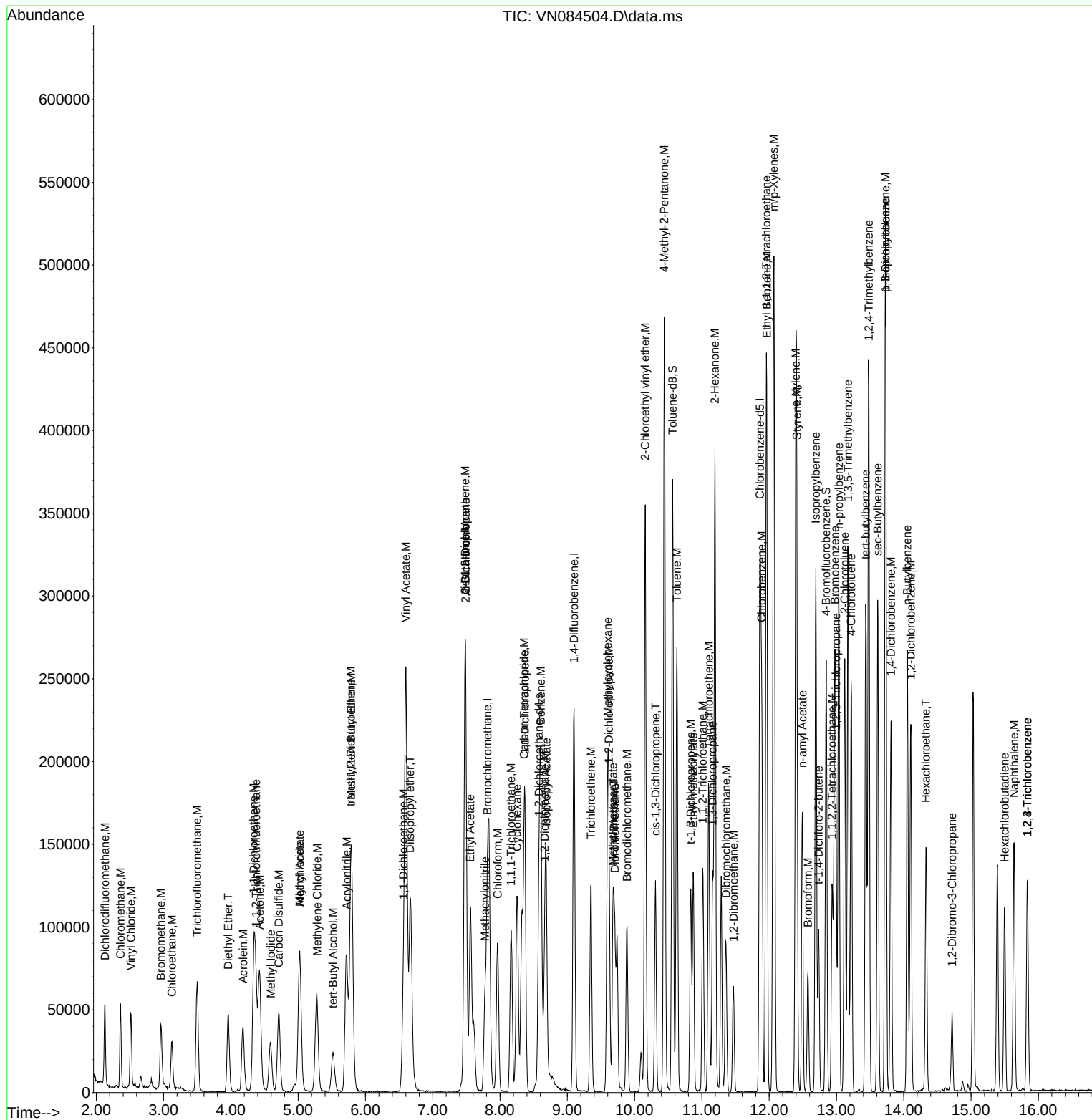
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Data File : VN084504.D  
Acq On    : 25 Oct 2024  10:04  
Operator  : JC\MD  
Sample    : VSTDCCC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1      Sample Multiplier: 1
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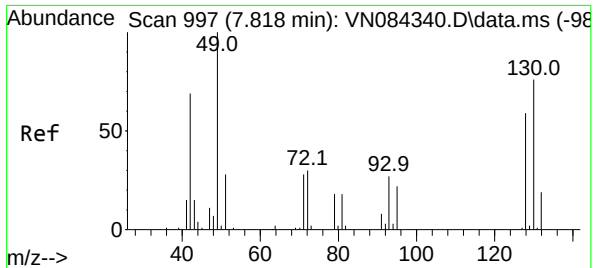
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

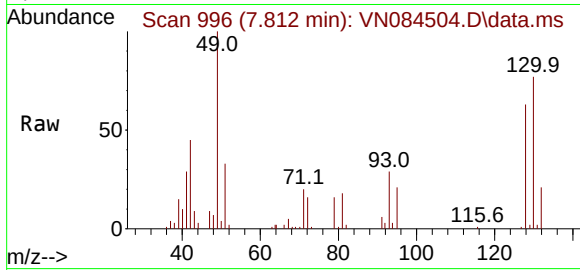
Quant Time: Oct 26 05:24:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

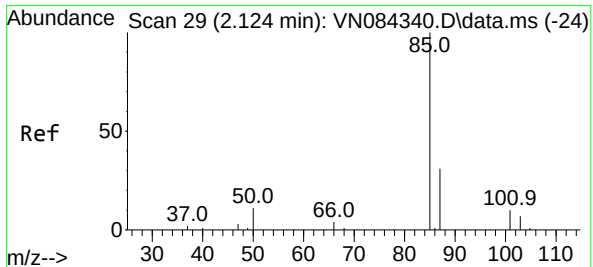
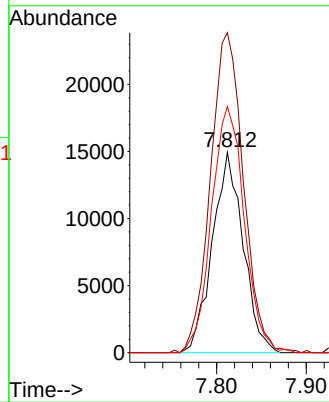
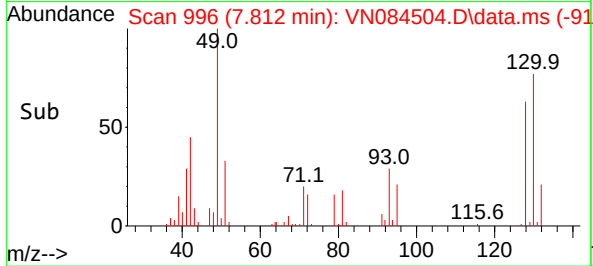
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:128 Resp: 35500
Ion Ratio Lower Upper
128 100
49 170.8 0.0 430.0
130 131.4 0.0 329.8

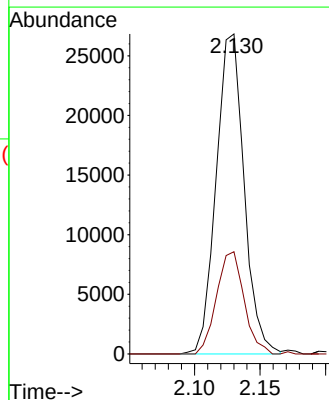
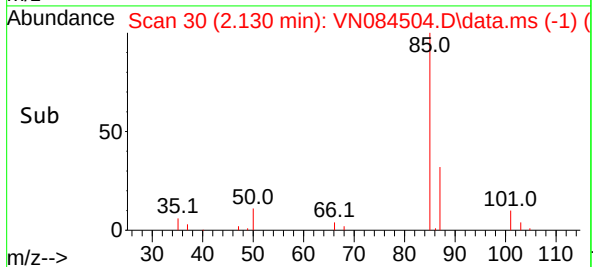
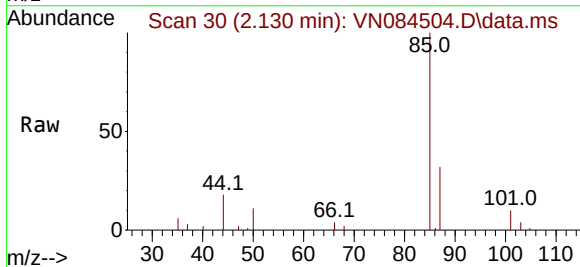
Manual Integrations
APPROVED

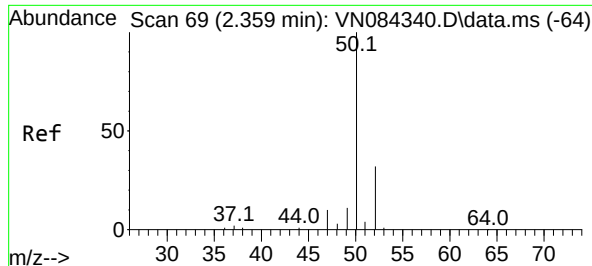
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#2
Dichlorodifluoromethane
Concen: 18.295 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 85 Resp: 39661
Ion Ratio Lower Upper
85 100
87 32.0 15.4 46.4





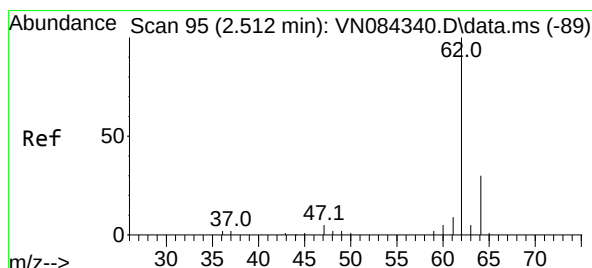
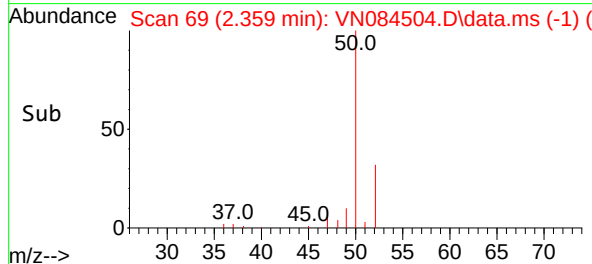
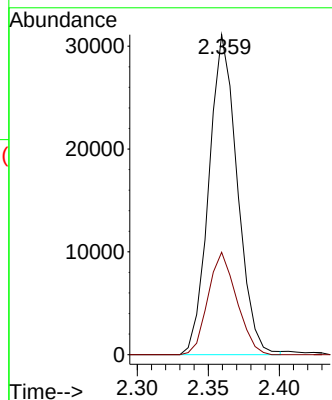
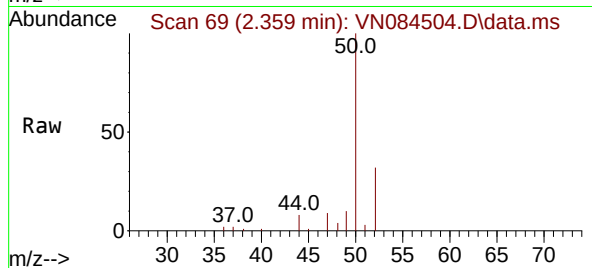
#3
Chloromethane
Concen: 17.572 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 50 Resp: 43348
Ion Ratio Lower Upper
50 100
52 32.0 25.8 38.6

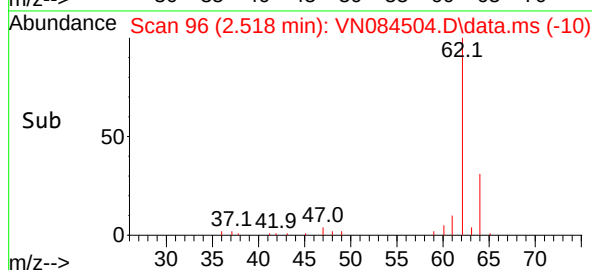
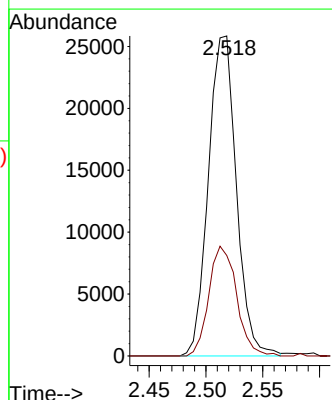
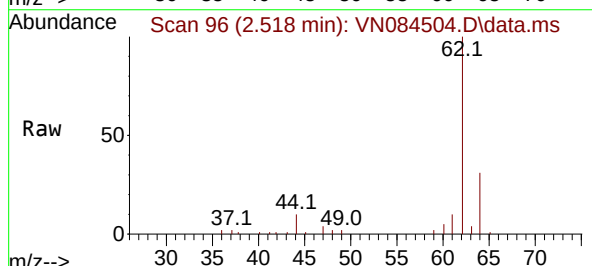
Manual Integrations
APPROVED

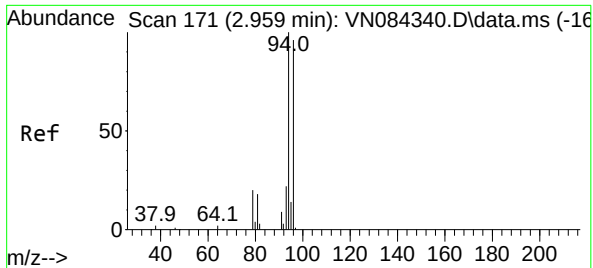
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#4
Vinyl Chloride
Concen: 18.338 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

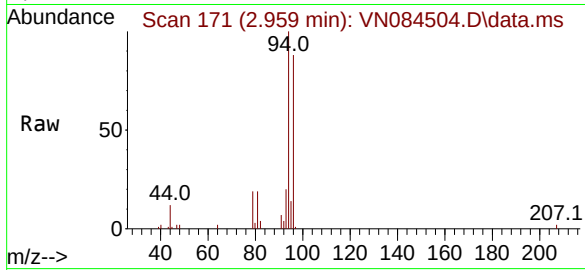
Tgt Ion: 62 Resp: 44364
Ion Ratio Lower Upper
62 100
64 31.4 24.3 36.5





#5
Bromomethane
Concen: 17.561 ug/l
RT: 2.959 min Scan# 171
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

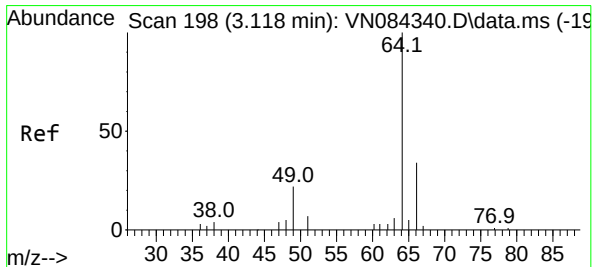
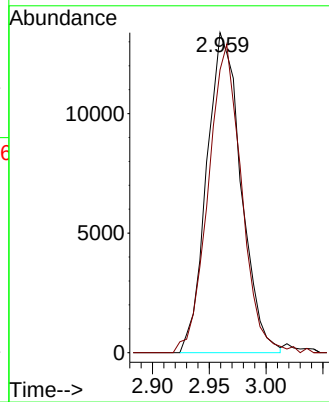
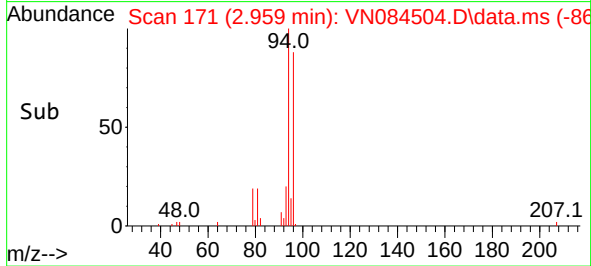
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 94 Resp: 28140
Ion Ratio Lower Upper
94 100
96 86.4 76.7 115.1

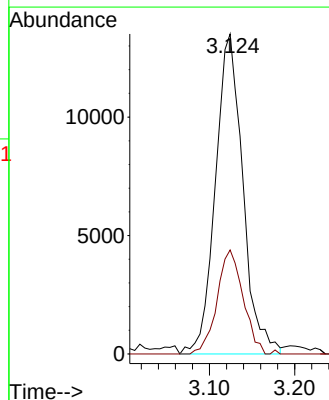
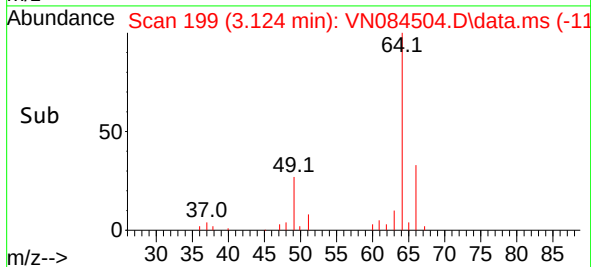
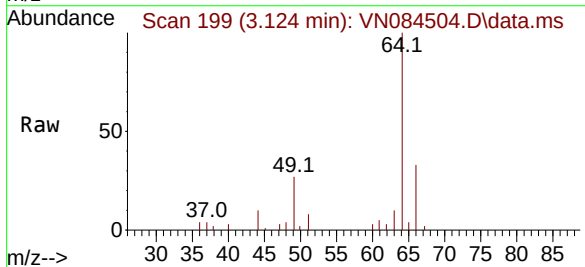
Manual Integrations
APPROVED

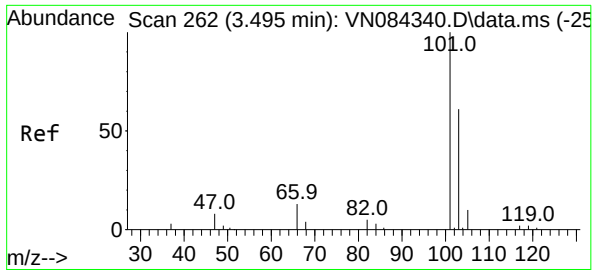
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#6
Chloroethane
Concen: 19.017 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

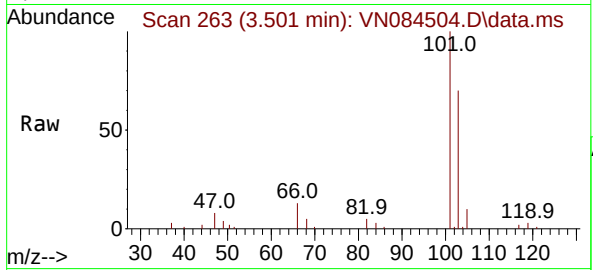
Tgt Ion: 64 Resp: 30160
Ion Ratio Lower Upper
64 100
66 32.5 27.7 41.5





#7
Trichlorofluoromethane
Concen: 18.762 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

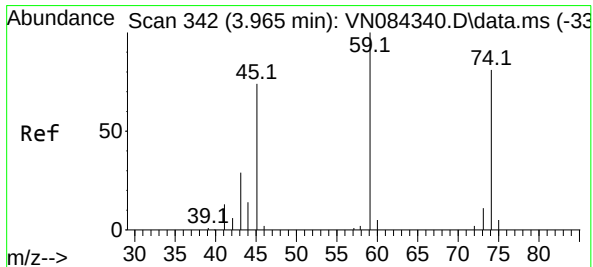
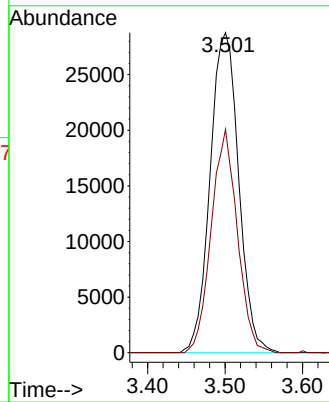
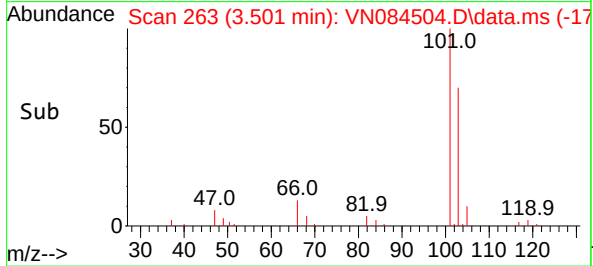
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:101 Resp: 7393
Ion Ratio Lower Upper
101 100
103 69.8 49.0 73.6

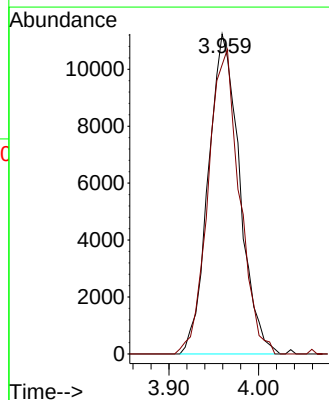
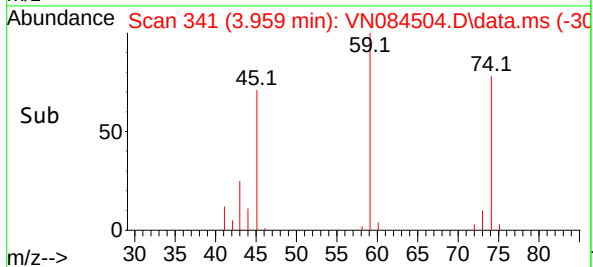
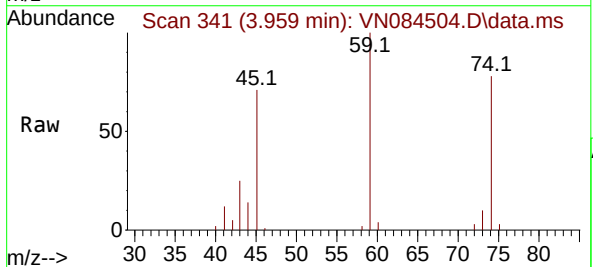
Manual Integrations
APPROVED

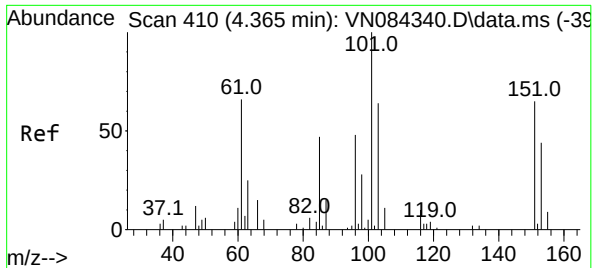
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#8
Diethyl Ether
Concen: 18.804 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 74 Resp: 27242
Ion Ratio Lower Upper
74 100
45 95.2 19.2 173.2





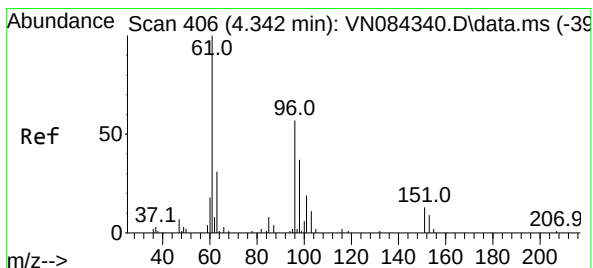
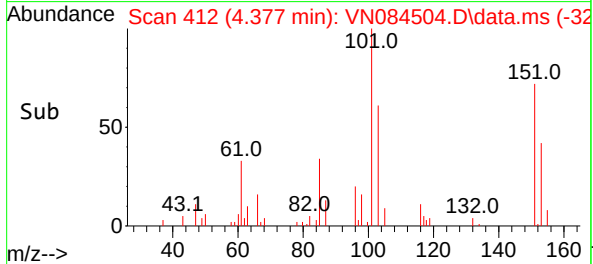
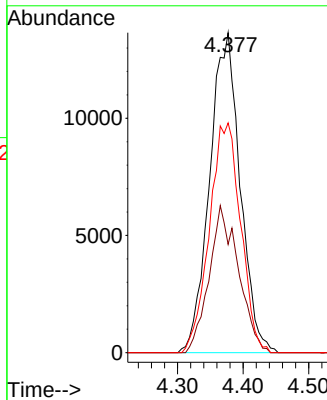
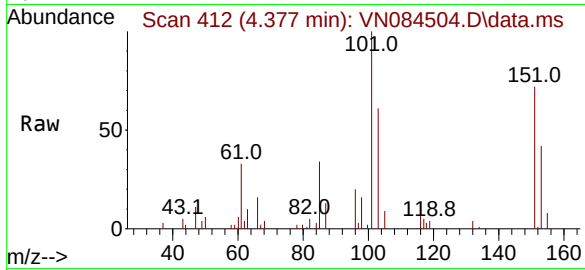
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.897 ug/l
RT: 4.377 min Scan# 410
Delta R.T. 0.012 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:101 Resp: 44085
Ion Ratio Lower Upper
101 100
85 28.0 0.0 93.6
151 38.7 0.0 151.8

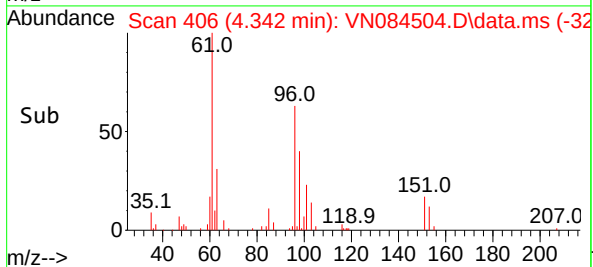
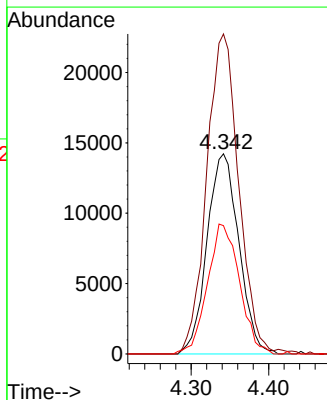
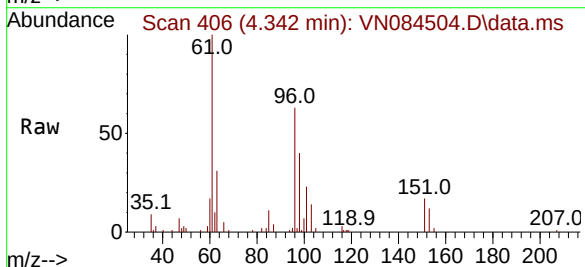
Manual Integrations
APPROVED

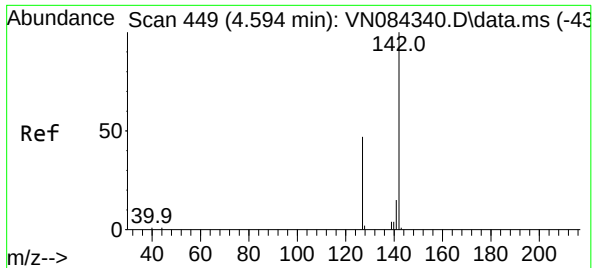
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#10
1,1-Dichloroethene
Concen: 18.358 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 96 Resp: 40585
Ion Ratio Lower Upper
96 100
61 159.9 140.8 211.2
98 64.1 52.2 78.2





#11

Methyl Iodide

Concen: 18.427 ug/l

RT: 4.595 min Scan# 449

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

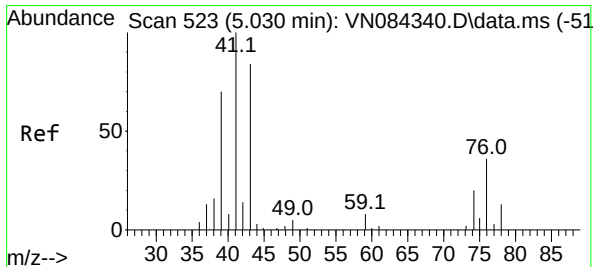
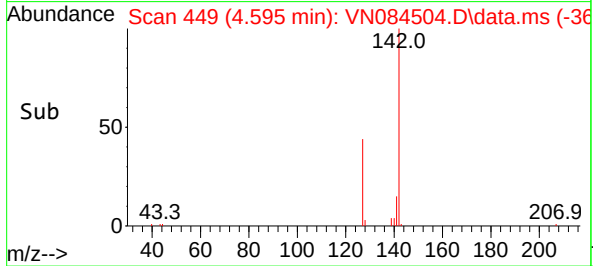
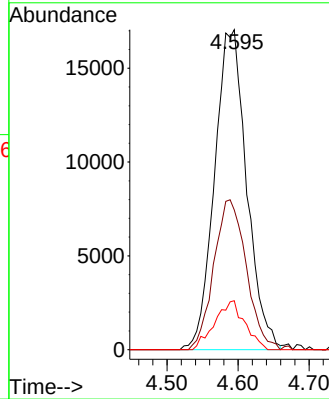
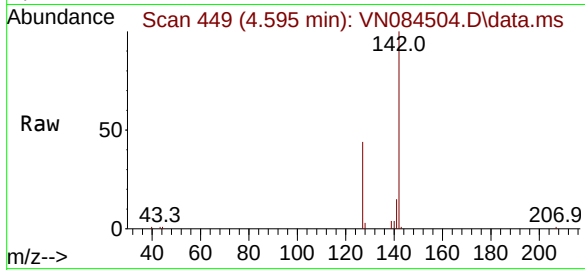
VSTDCCC020

Tgt Ion:	142	Resp:	5353
Ion Ratio	Lower	Upper	
142	100		
127	43.9	23.8	71.4
141	15.4	7.4	22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#12

Methyl Acetate

Concen: 21.239 ug/l

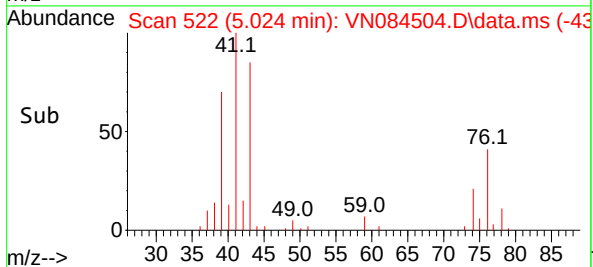
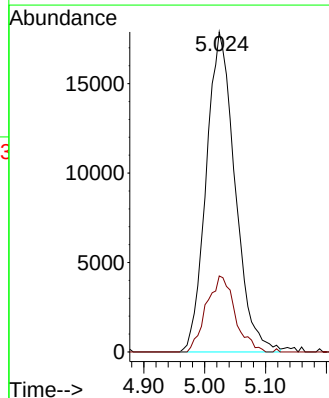
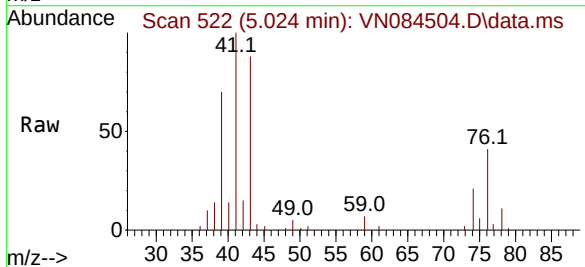
RT: 5.024 min Scan# 522

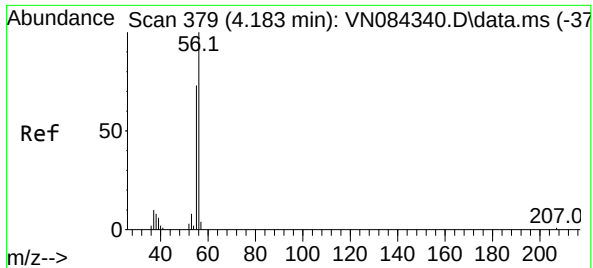
Delta R.T. -0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Tgt Ion:	43	Resp:	58784
Ion Ratio	Lower	Upper	
43	100		
74	23.8	19.4	29.2





#13

Acrolein

Concen: 99.121 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 56 Resp: 50962

Ion Ratio Lower Upper

56 100

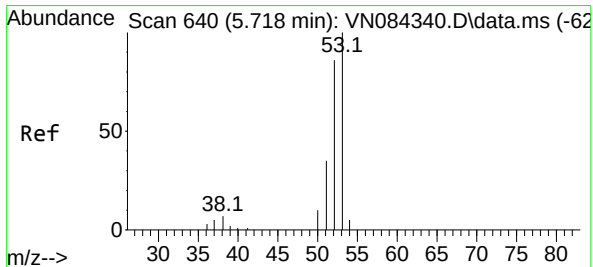
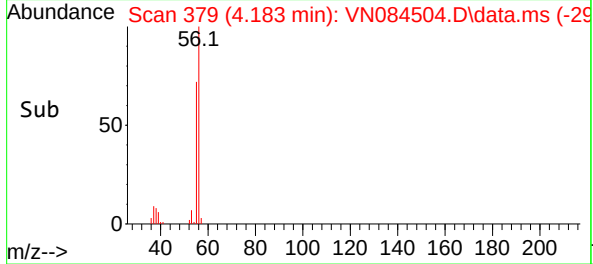
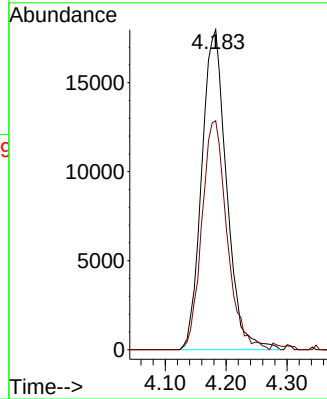
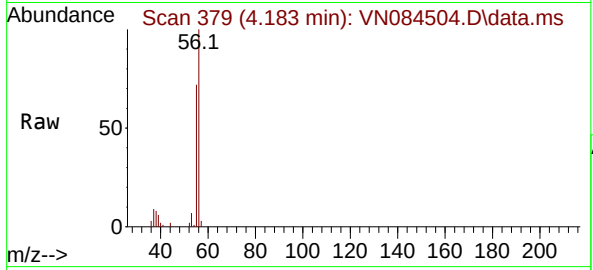
55 71.3 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#14

Acrylonitrile

Concen: 90.663 ug/l

RT: 5.724 min Scan# 641

Delta R.T. 0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

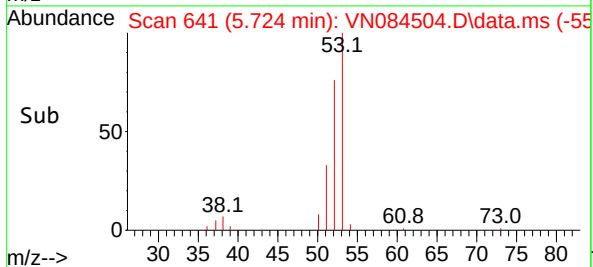
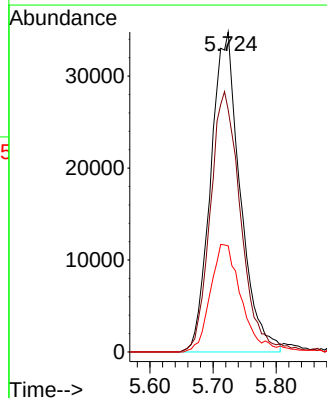
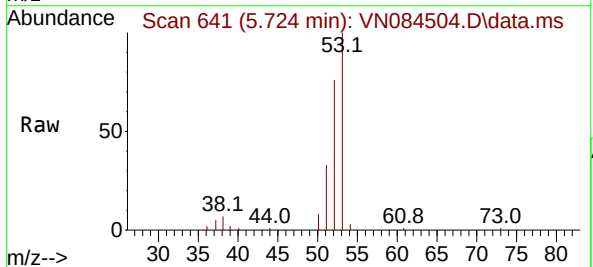
Tgt Ion: 53 Resp: 112734

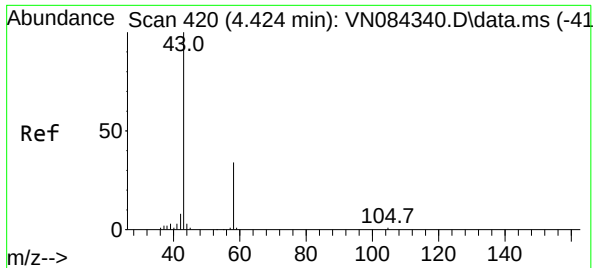
Ion Ratio Lower Upper

53 100

52 82.8 40.4 121.2

51 34.0 17.8 53.4





#15

Acetone

Concen: 122.505 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 58 Resp: 43514

Ion Ratio Lower Upper

58 100

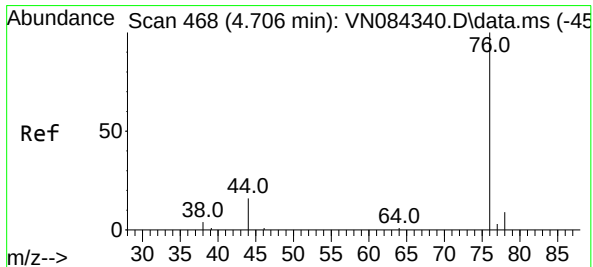
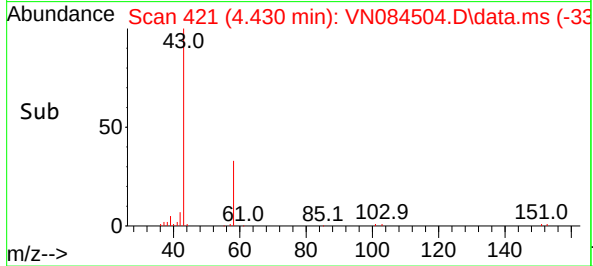
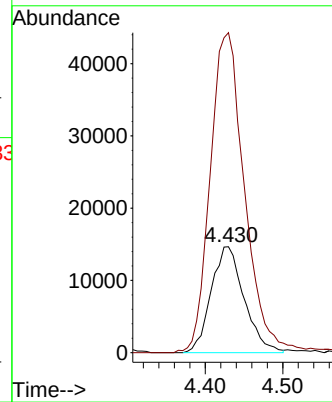
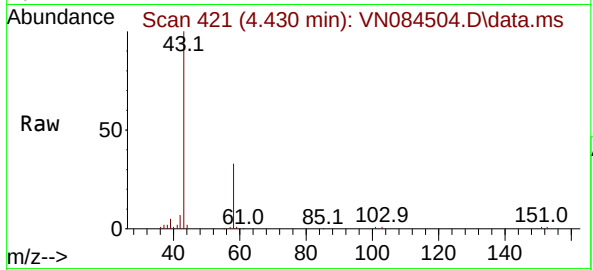
43 300.3 237.5 356.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#16

Carbon Disulfide

Concen: 16.656 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN084504.D

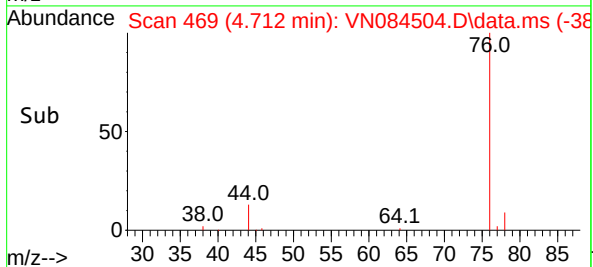
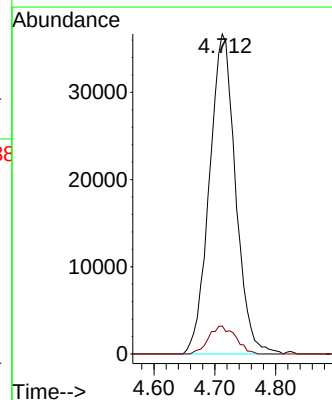
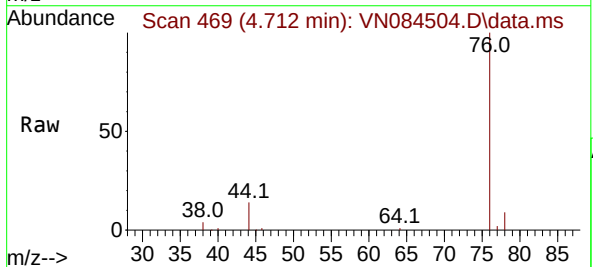
Acq: 25 Oct 2024 10:04

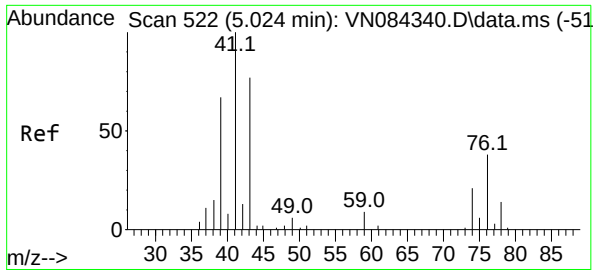
Tgt Ion: 76 Resp: 109654

Ion Ratio Lower Upper

76 100

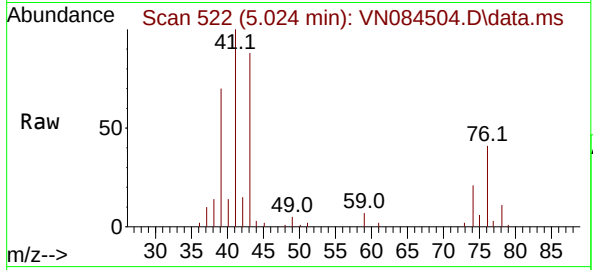
78 8.8 7.1 10.7





#17
Allyl chloride
Concen: 18.433 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

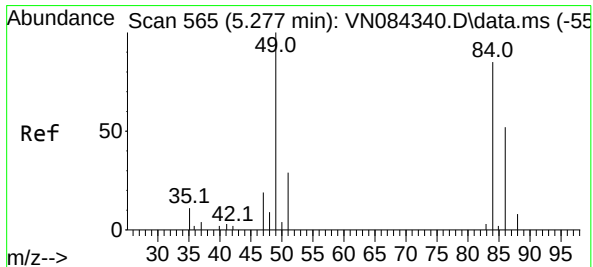
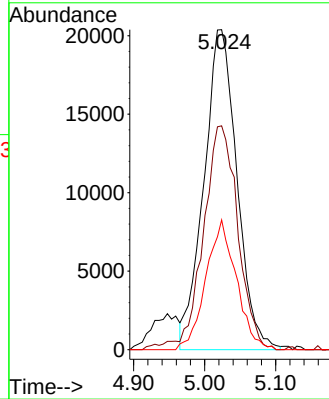
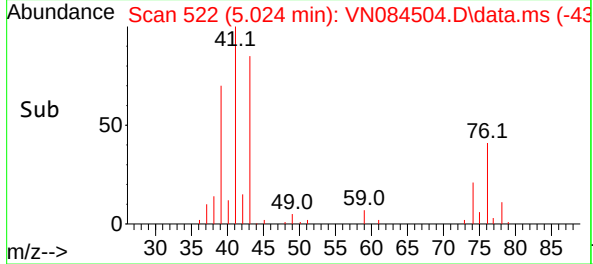
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 41 Resp: 66059
Ion Ratio Lower Upper
41 100
39 70.6 31.4 94.3
76 41.0 17.8 53.5

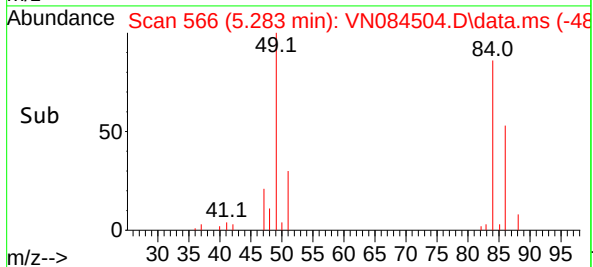
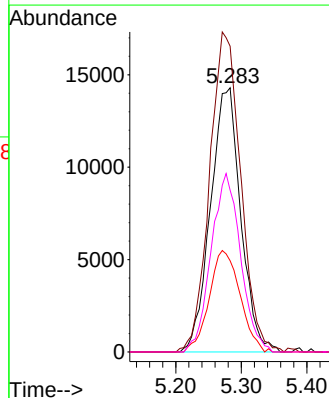
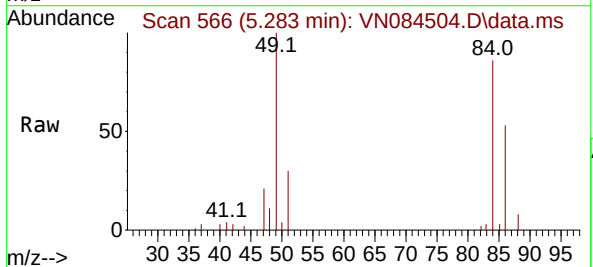
Manual Integrations
APPROVED

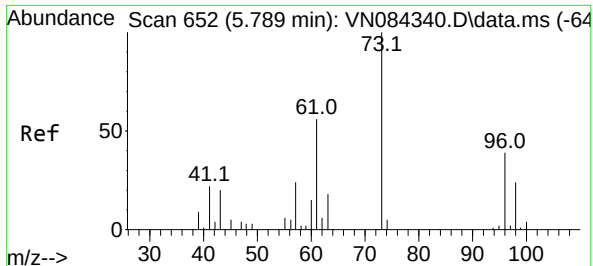
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#18
Methylene Chloride
Concen: 18.429 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 84 Resp: 45898
Ion Ratio Lower Upper
84 100
49 114.6 94.6 142.0
51 34.5 27.3 40.9
86 61.2 49.4 74.0





#19

trans-1,2-Dichloroethene

Concen: 18.179 ug/l

RT: 5.783 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 96 Resp: 42534

Ion Ratio Lower Upper

96 100

61 139.0 115.8 173.6

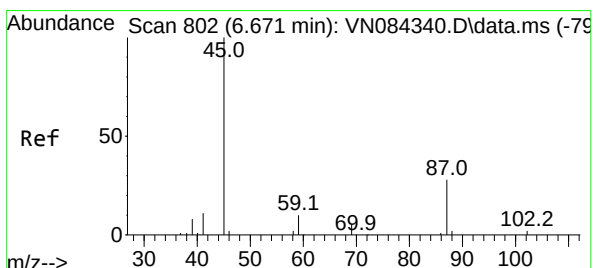
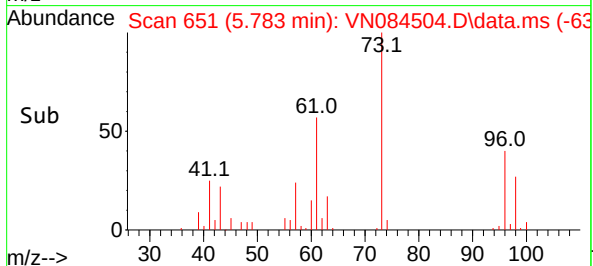
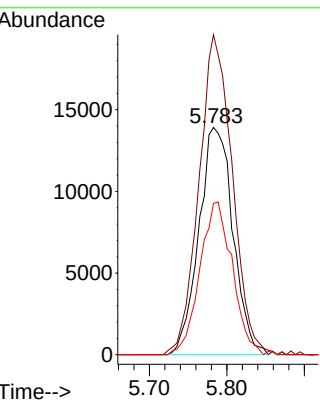
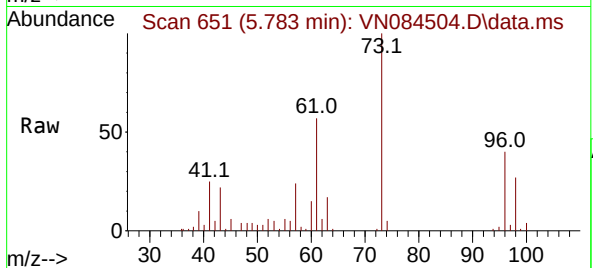
98 66.5 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#20

Diisopropyl ether

Concen: 19.011 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Tgt Ion: 45 Resp: 146490

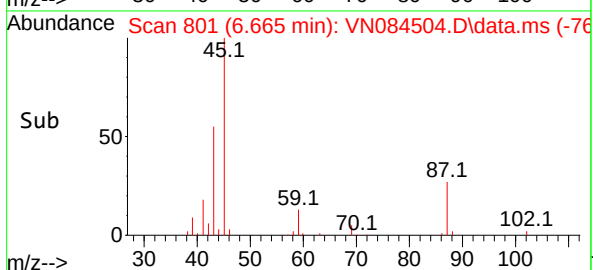
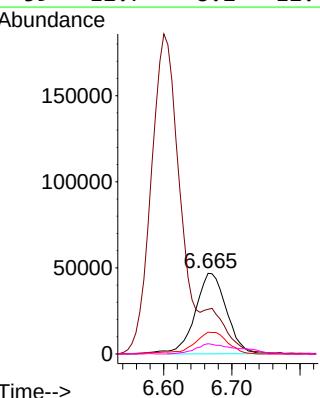
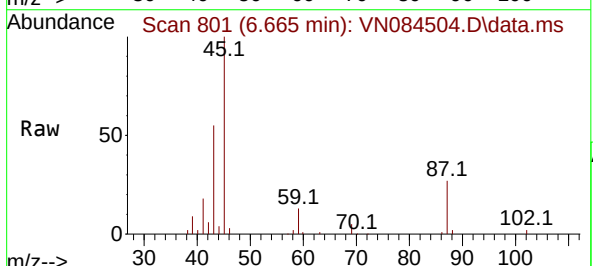
Ion Ratio Lower Upper

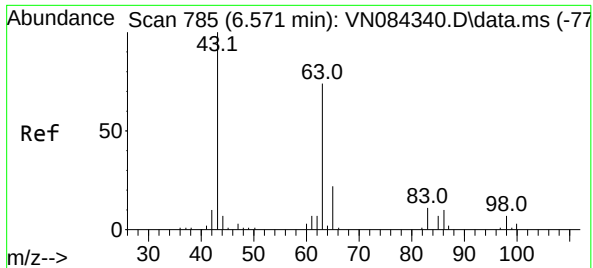
45 100

43 53.9 43.7 65.5

87 27.1 23.1 34.7

59 12.7 8.2 12.4#





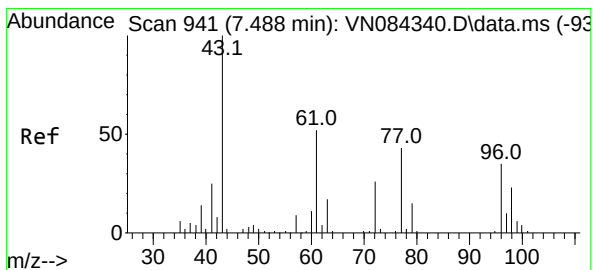
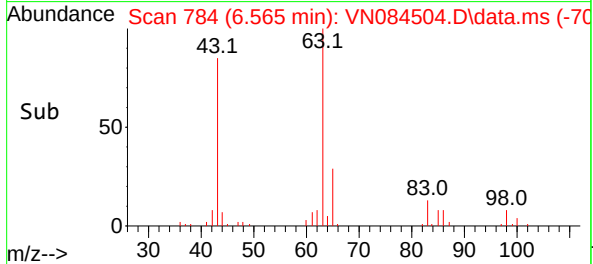
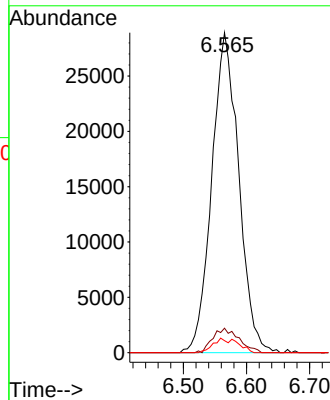
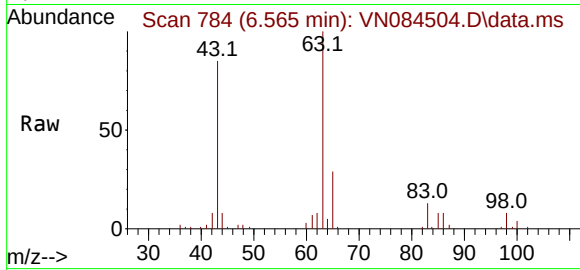
#21
1,1-Dichloroethane
Concen: 19.388 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 63 Resp: 8572
Ion Ratio Lower Upper
63 100
98 7.6 4.5 13.4
100 3.8 2.1 6.3

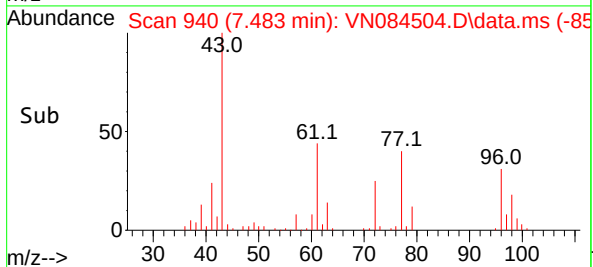
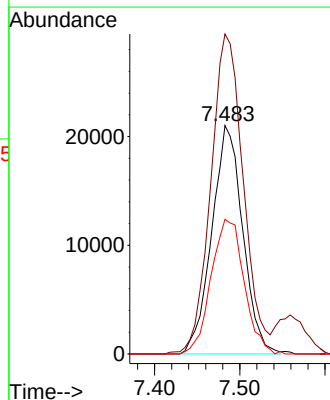
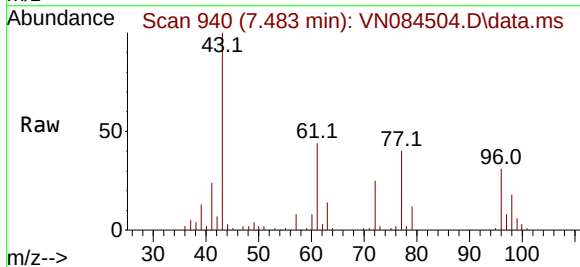
Manual Integrations
APPROVED

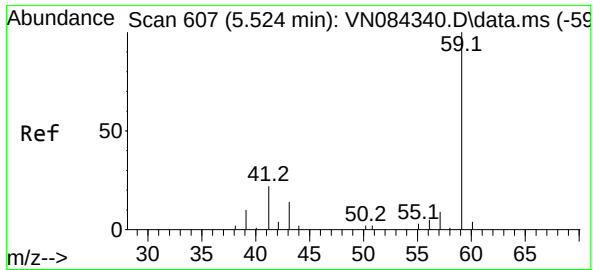
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#22
cis-1,2-Dichloroethene
Concen: 19.473 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 96 Resp: 53018
Ion Ratio Lower Upper
96 100
61 145.0 118.0 177.0
98 62.6 51.8 77.8





#23

tert-Butyl Alcohol

Concen: 90.279 ug/l

RT: 5.518 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 59 Resp: 43059

Ion Ratio Lower Upper

59 100

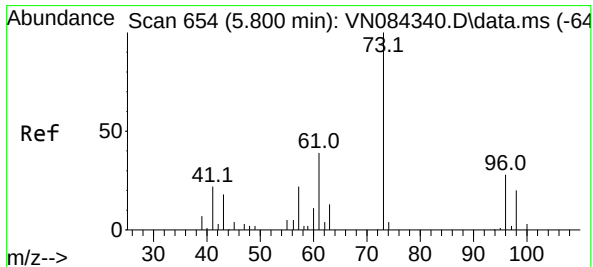
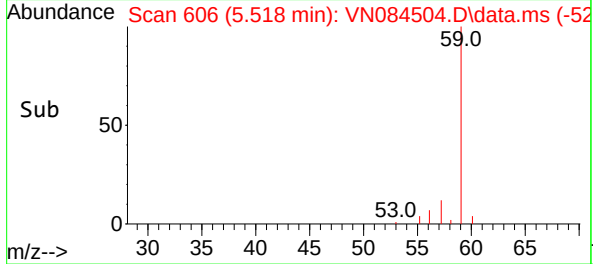
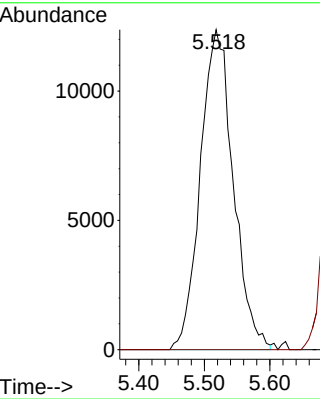
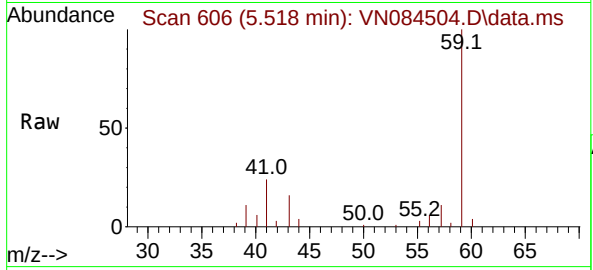
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#24

Methyl tert-Butyl Ether

Concen: 19.105 ug/l

RT: 5.789 min Scan# 652

Delta R.T. -0.012 min

Lab File: VN084504.D

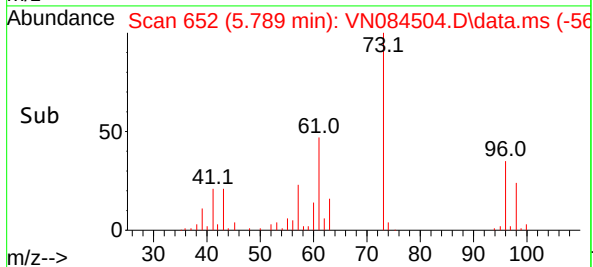
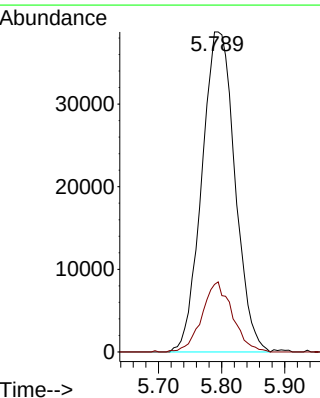
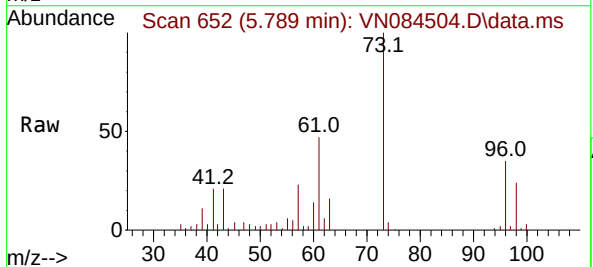
Acq: 25 Oct 2024 10:04

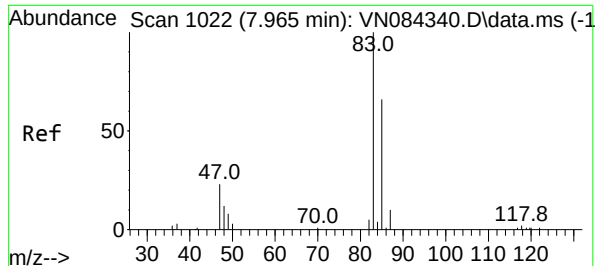
Tgt Ion: 73 Resp: 141150

Ion Ratio Lower Upper

73 100

43 20.0 10.9 16.3#





#25

Chloroform

Concen: 20.215 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 83 Resp: 9052

Ion Ratio Lower Upper

83 100

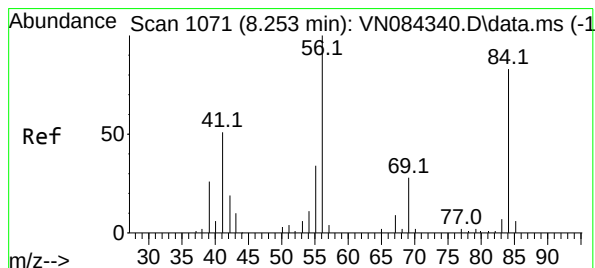
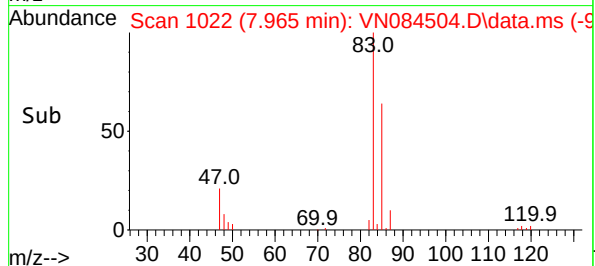
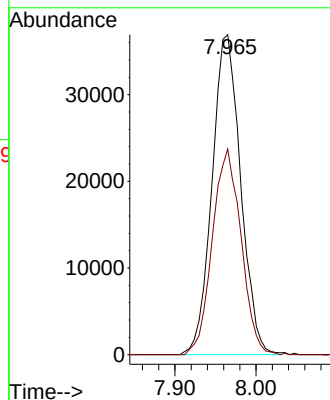
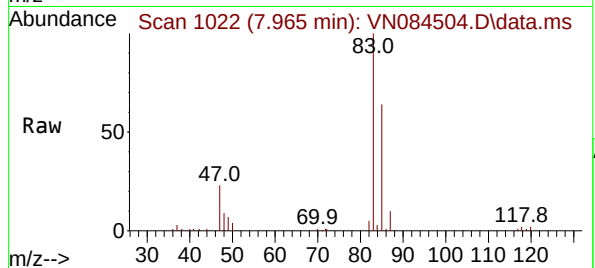
85 64.3 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#26

Cyclohexane

Concen: 17.645 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

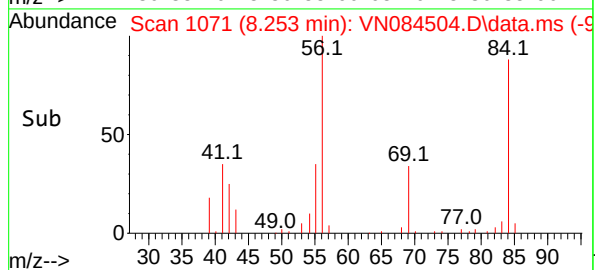
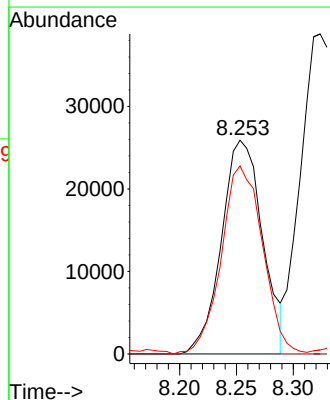
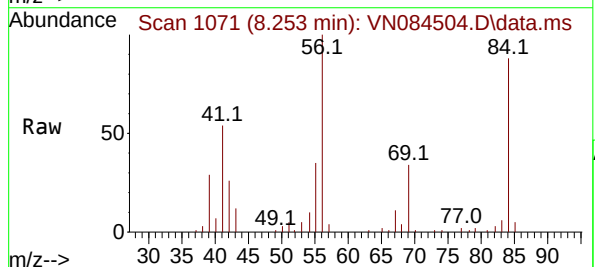
Tgt Ion: 56 Resp: 65248

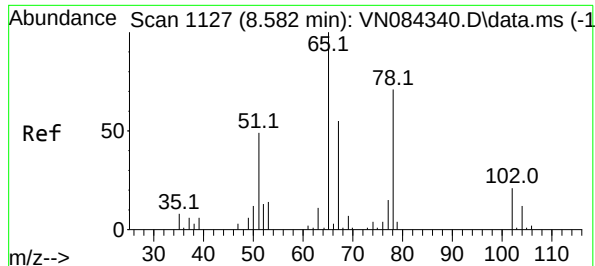
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 88.5 67.0 100.6





#27

1,2-Dichloroethane-d4

Concen: 29.960 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 65 Resp: 8564

Ion Ratio Lower Upper

65 100

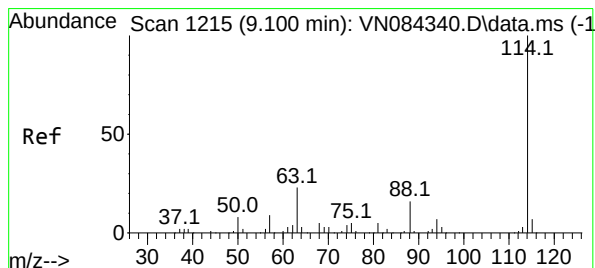
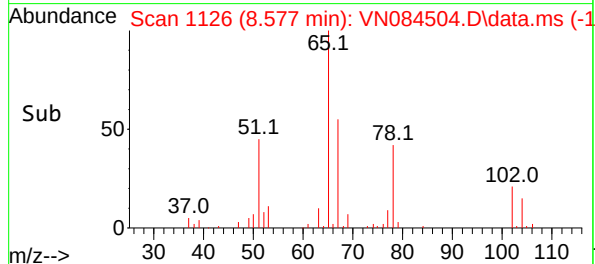
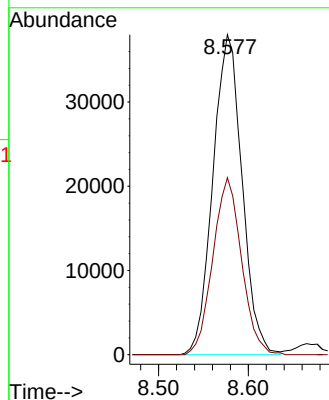
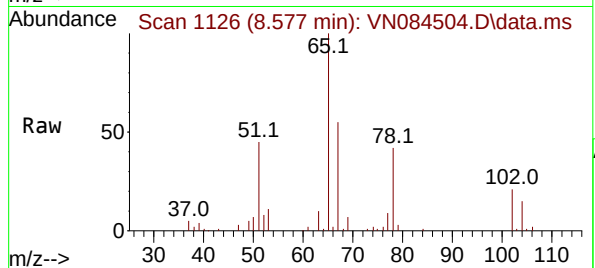
67 54.3 41.5 62.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

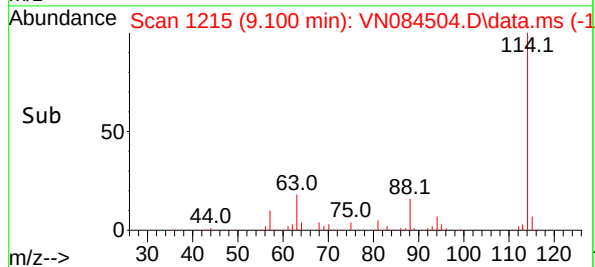
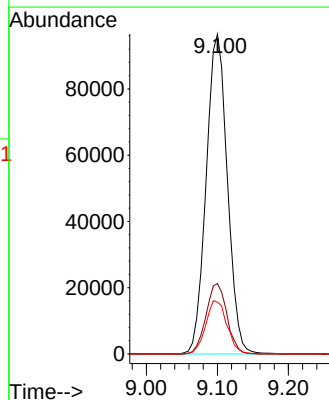
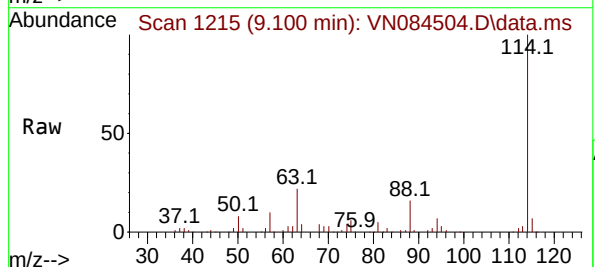
Tgt Ion:114 Resp: 200200

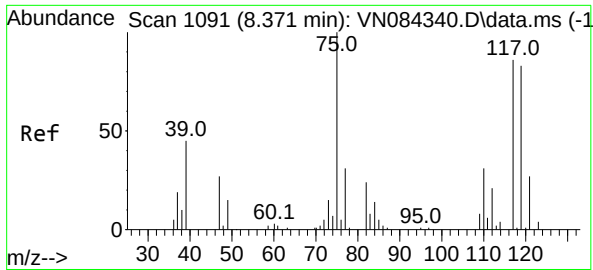
Ion Ratio Lower Upper

114 100

63 21.7 17.4 26.0

88 16.7 13.2 19.8





#29

1,1-Dichloropropene

Concen: 18.137 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

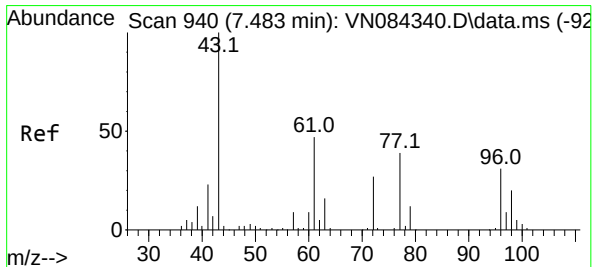
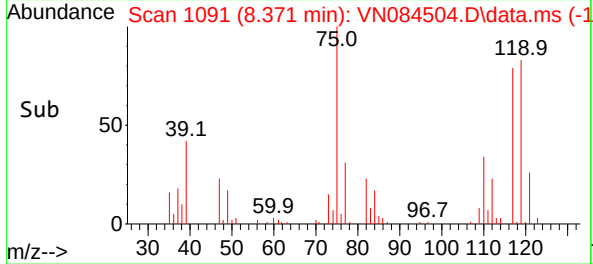
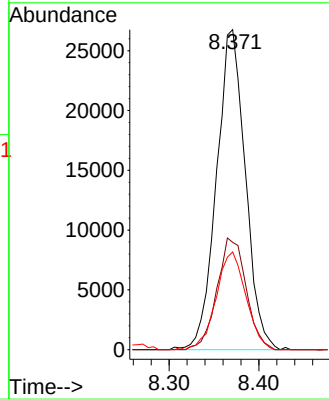
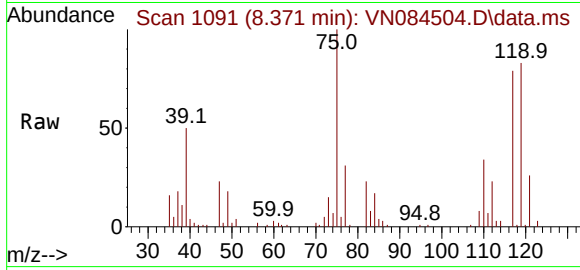
VSTDCCC020

Tgt Ion: 75	Resp: 5960
Ion Ratio	Lower Upper
75 100	
110 35.3	0.0 67.6
77 31.5	0.0 61.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#30

2-Butanone

Concen: 96.222 ug/l

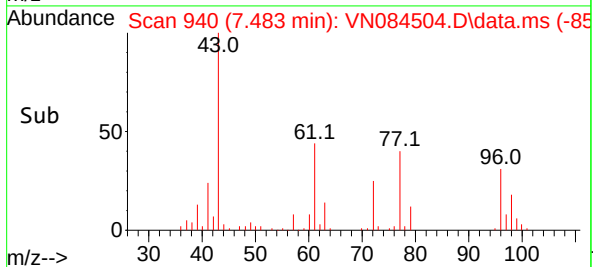
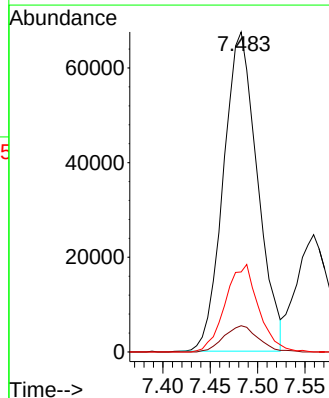
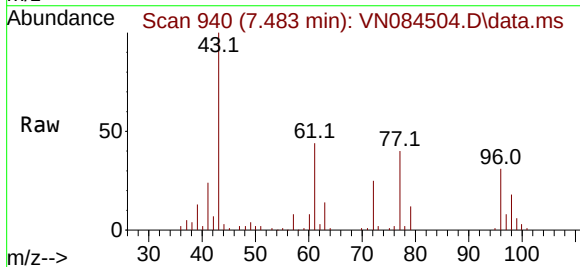
RT: 7.483 min Scan# 940

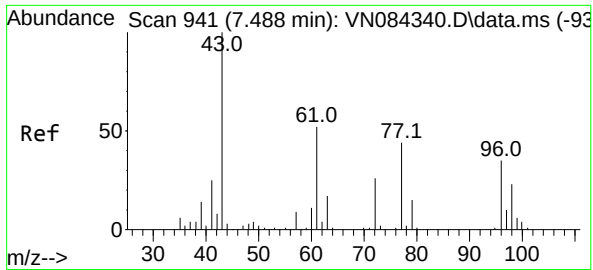
Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

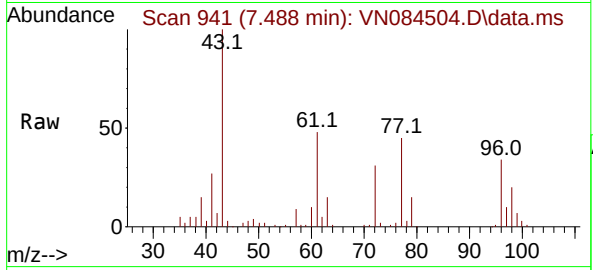
Tgt Ion: 43	Resp: 168367
Ion Ratio	Lower Upper
43 100	
57 8.3	6.6 9.8
72 26.9	21.3 31.9





#31
2,2-Dichloropropane
Concen: 19.650 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

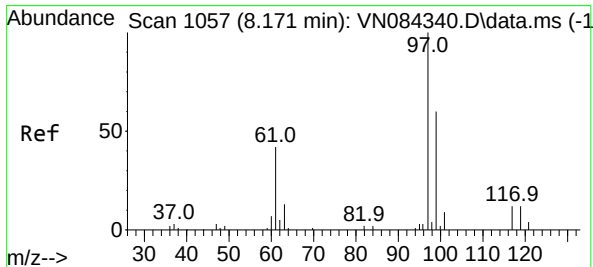
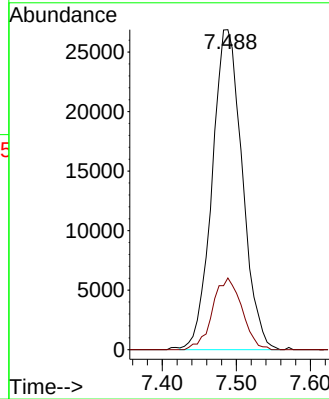
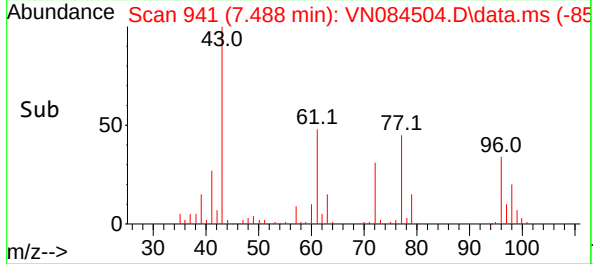
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



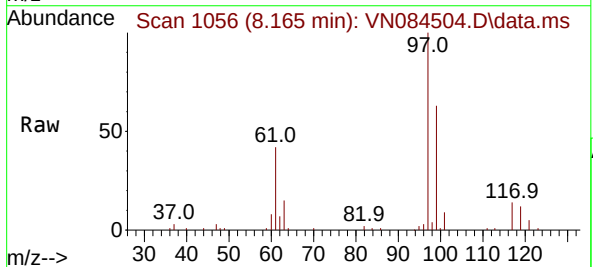
Tgt Ion: 77 Resp: 7588
Ion Ratio Lower Upper
77 100
97 21.9 11.5 17.3

Manual Integrations
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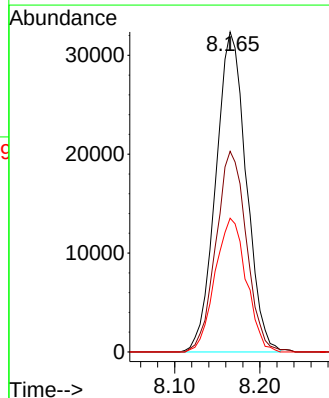
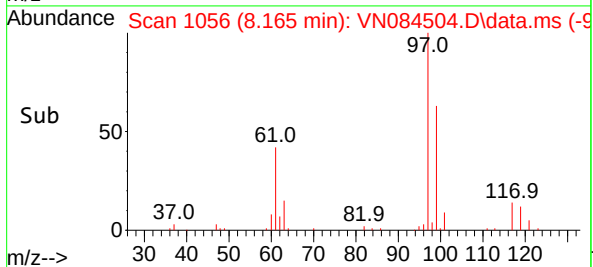
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

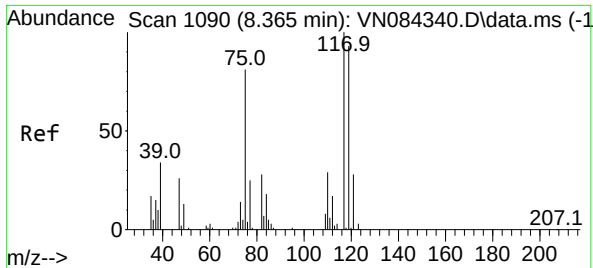


#32
1,1,1-Trichloroethane
Concen: 19.158 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04



Tgt Ion: 97 Resp: 80476
Ion Ratio Lower Upper
97 100
99 62.9 51.2 76.8
61 42.9 34.1 51.1





#33

Carbon Tetrachloride

Concen: 18.476 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VN084504.D

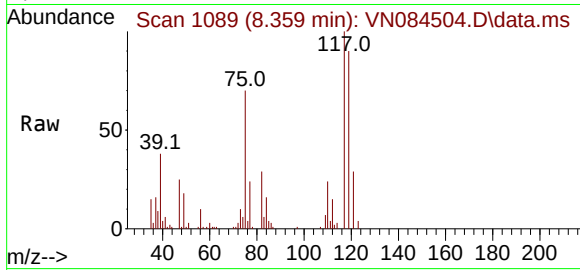
Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020



Tgt Ion:117 Resp: 67238

Ion Ratio Lower Upper

117 100

119 90.4 74.3 111.5

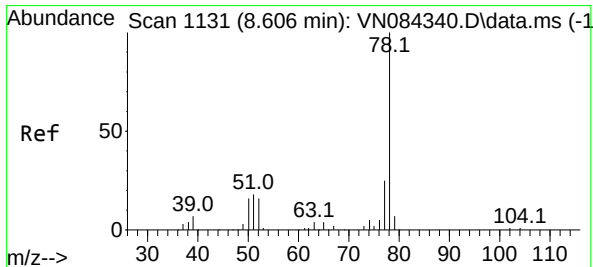
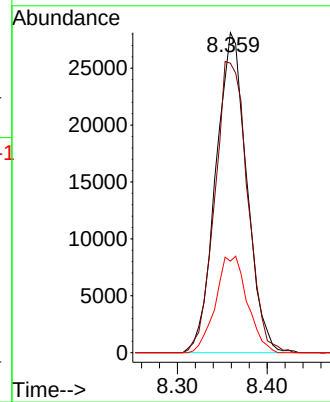
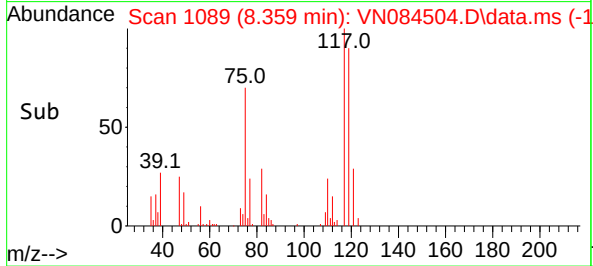
121 28.6 22.4 33.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#34

Benzene

Concen: 18.712 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

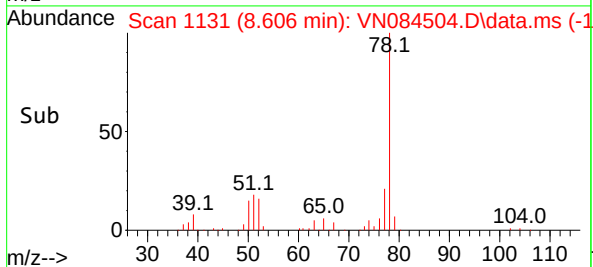
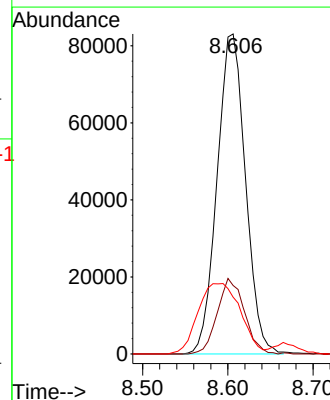
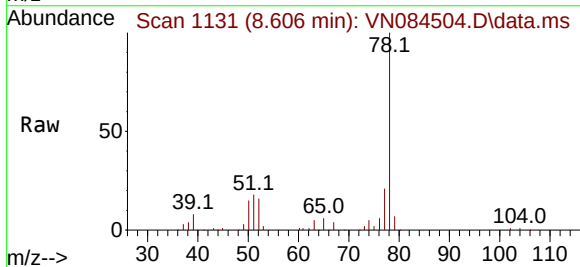
Tgt Ion: 78 Resp: 192502

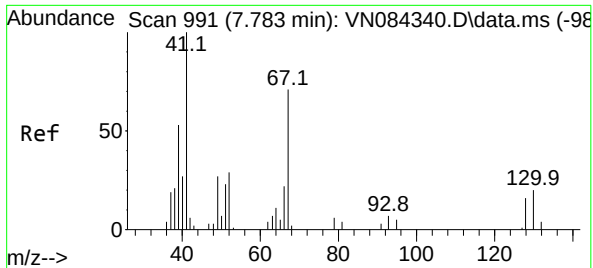
Ion Ratio Lower Upper

78 100

77 21.4 19.6 29.4

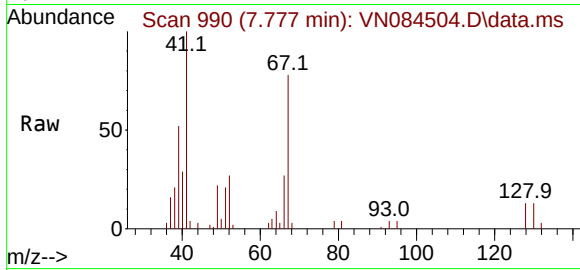
51 15.7 15.8 23.6#





#35
Methacrylonitrile
Concen: 18.205 ug/l
RT: 7.777 min Scan# 991
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

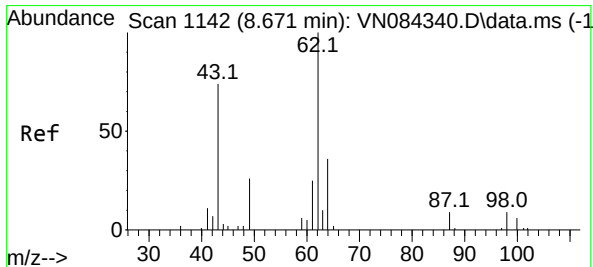
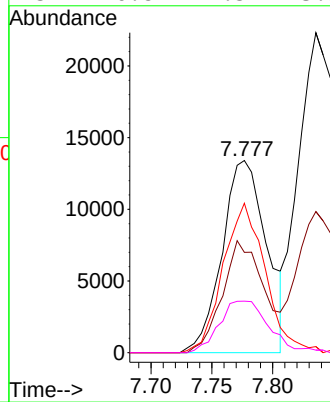
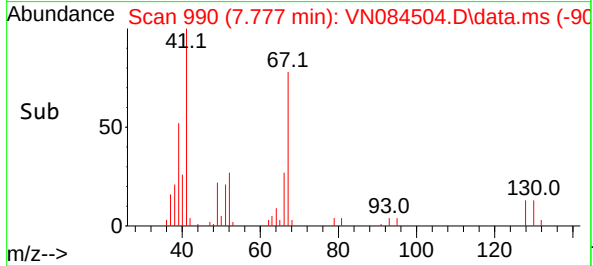
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 41 Resp: 33984
Ion Ratio Lower Upper
41 100
39 52.2 26.4 79.0
67 77.8 35.7 107.1
52 26.8 14.5 43.5

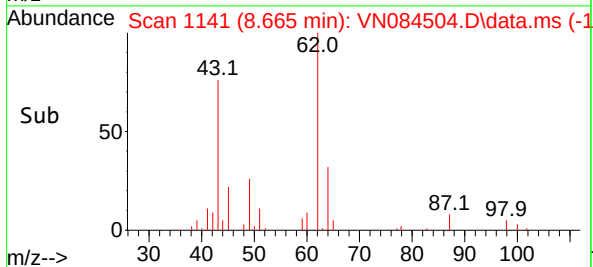
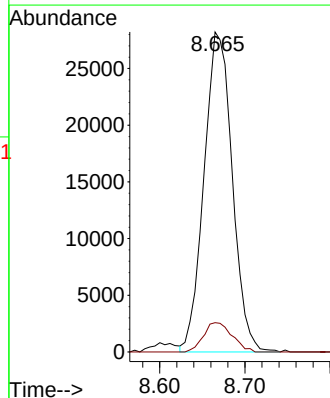
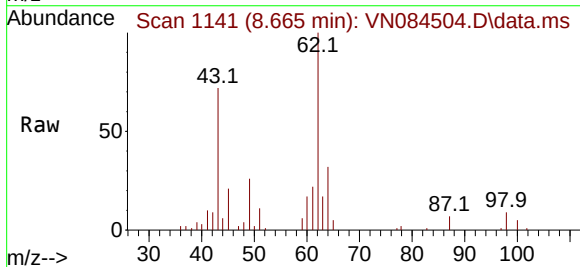
Manual Integrations
APPROVED

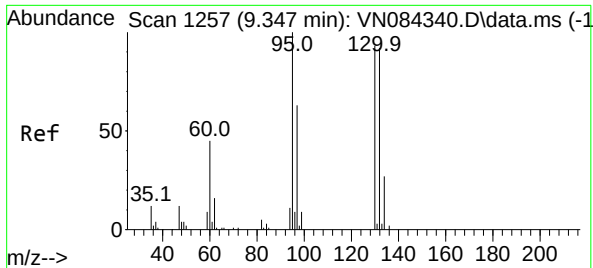
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#36
1,2-Dichloroethane
Concen: 18.977 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 62 Resp: 65072
Ion Ratio Lower Upper
62 100
98 9.3 7.3 10.9





#37

Trichloroethene

Concen: 18.875 ug/l

RT: 9.353 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion:130 Resp: 4471

Ion Ratio Lower Upper

130 100

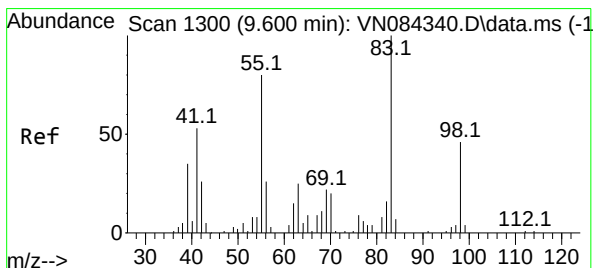
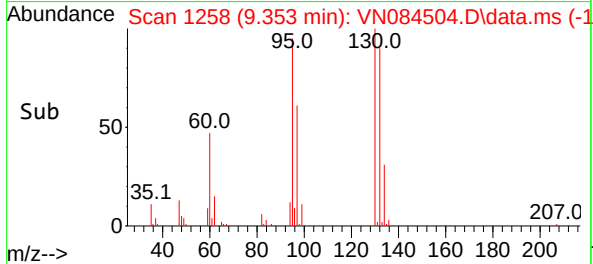
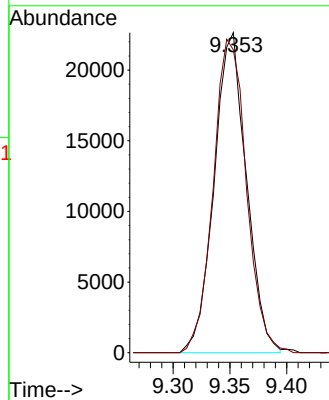
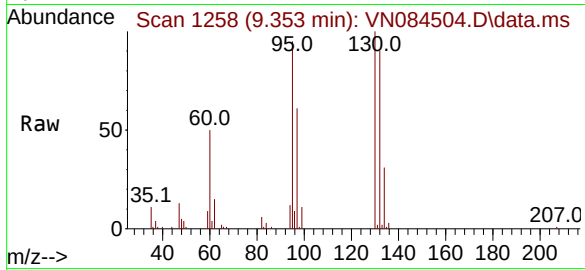
95 94.7 85.8 128.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#38

Methylcyclohexane

Concen: 17.975 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

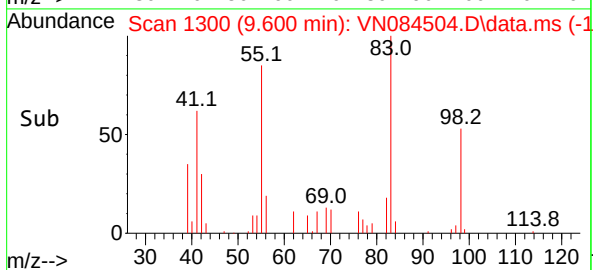
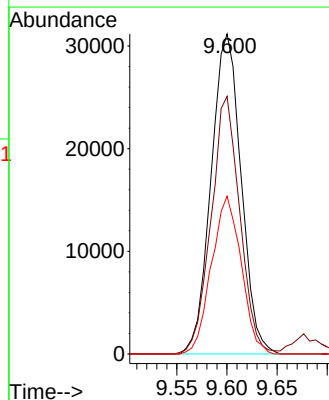
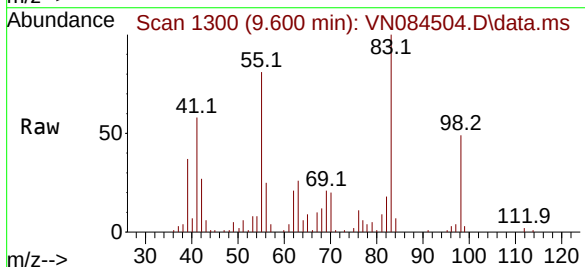
Tgt Ion: 83 Resp: 64890

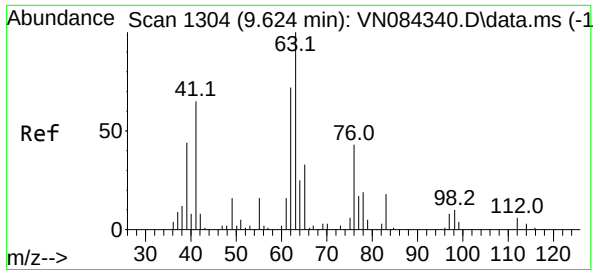
Ion Ratio Lower Upper

83 100

55 77.1 39.3 117.8

98 48.9 24.0 72.0





#39

1,2-Dichloropropane

Concen: 18.758 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 63 Resp: 47058

Ion Ratio Lower Upper

63 100

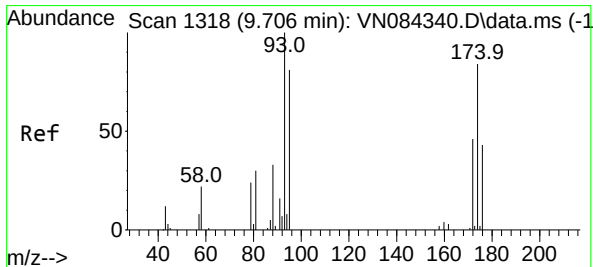
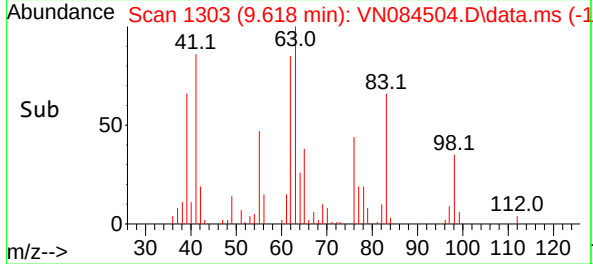
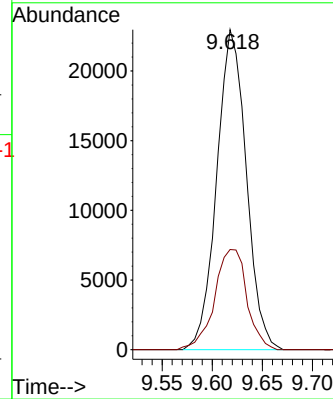
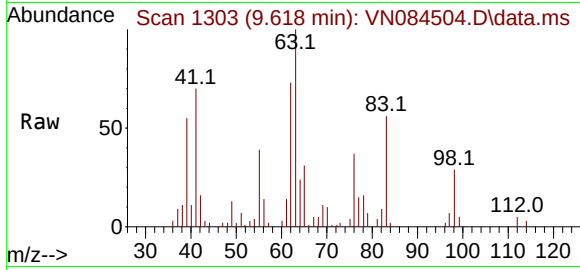
65 31.3 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#40

Dibromomethane

Concen: 18.841 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

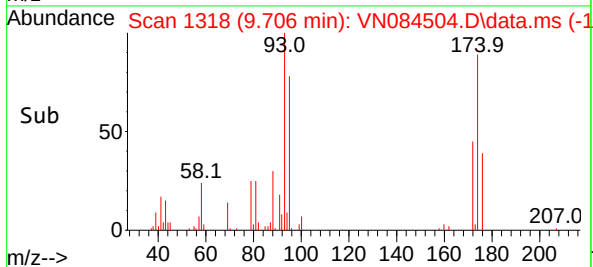
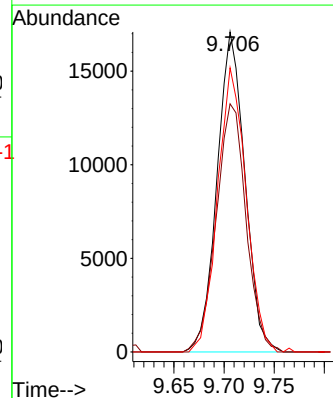
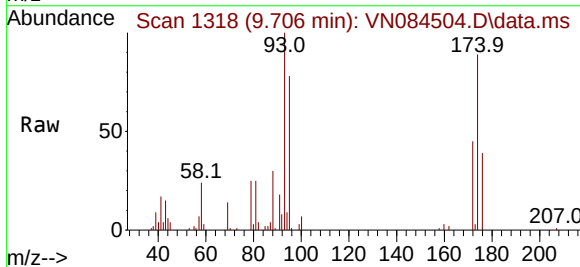
Tgt Ion: 93 Resp: 33034

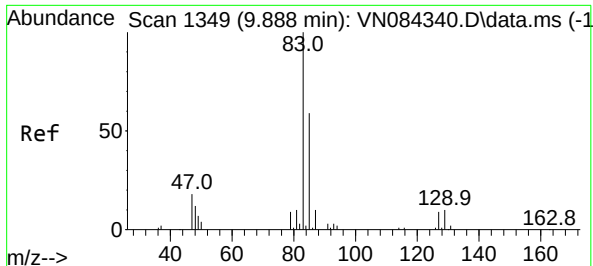
Ion Ratio Lower Upper

93 100

95 83.0 0.0 171.4

174 90.8 0.0 183.0





#41

Bromodichloromethane

Concen: 18.785 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

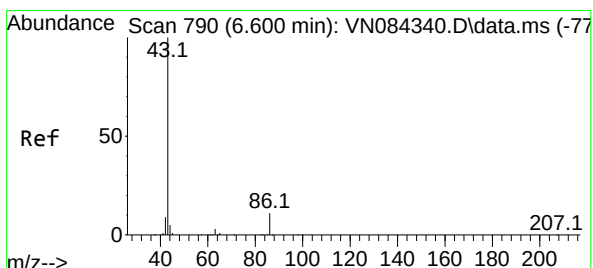
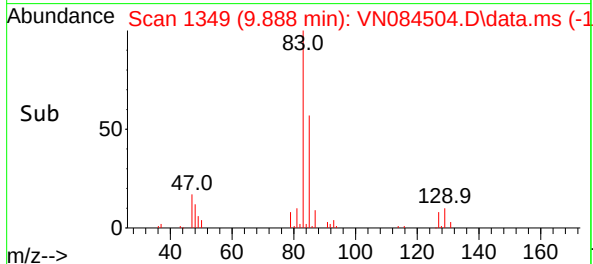
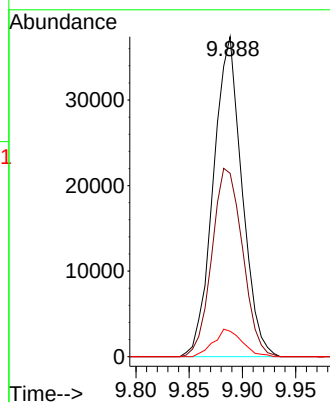
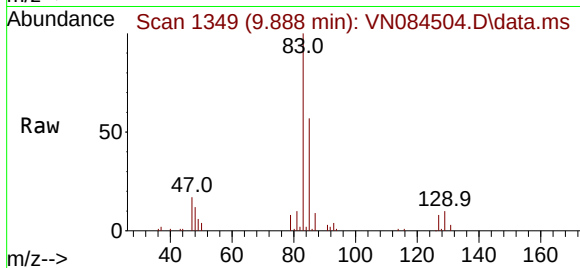
VSTDCCC020

Tgt Ion:	83	Resp:	6992
Ion	Ratio	Lower	Upper
83	100		
85	57.3	47.1	70.7
127	7.9	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#42

Vinyl Acetate

Concen: 88.329 ug/l

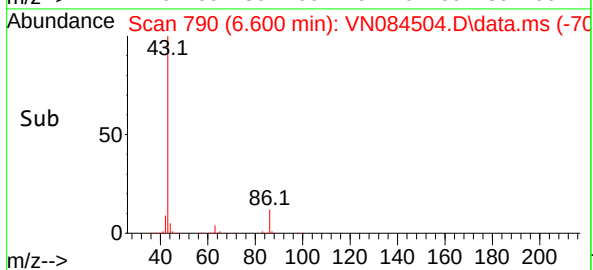
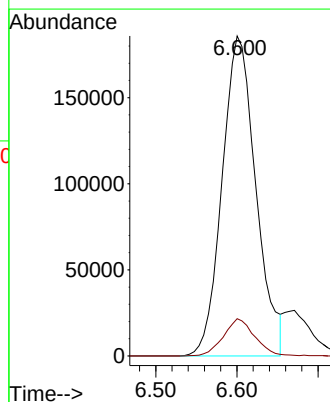
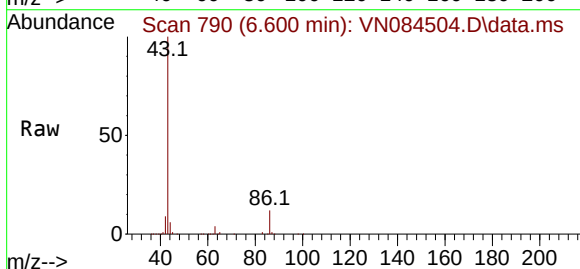
RT: 6.600 min Scan# 790

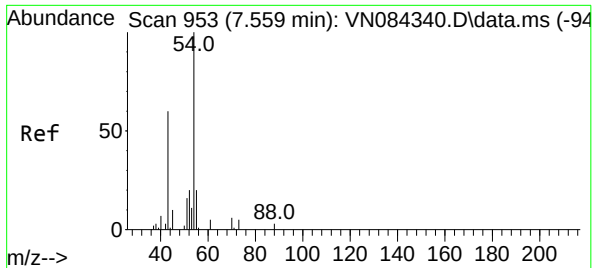
Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Tgt Ion:	43	Resp:	537529
Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.5	12.7





#43

Ethyl Acetate

Concen: 17.008 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 43 Resp: 5869

Ion Ratio Lower Upper

43 100

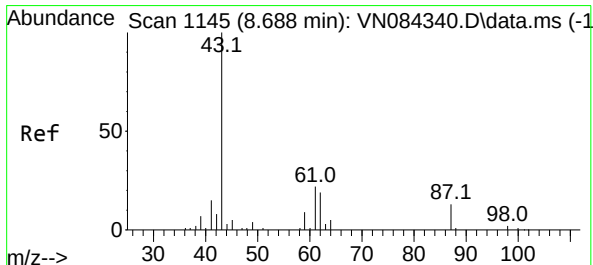
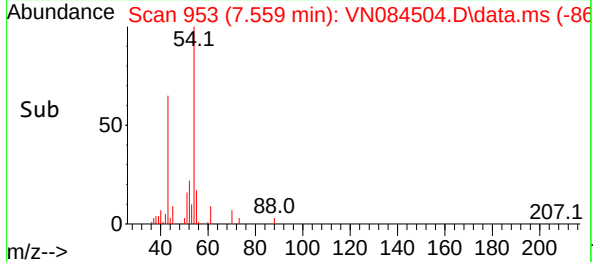
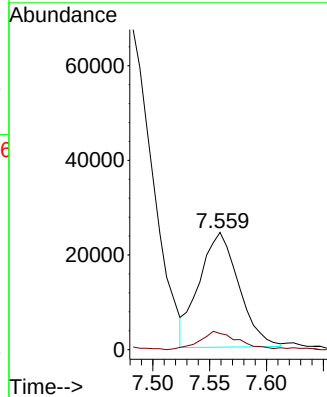
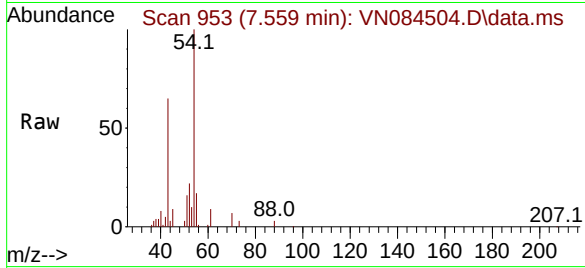
45 15.3 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#44

Isopropyl Acetate

Concen: 22.980 ug/l m

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084504.D

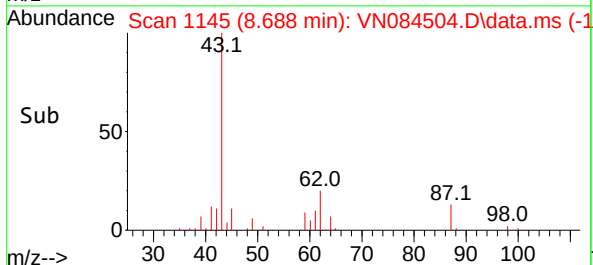
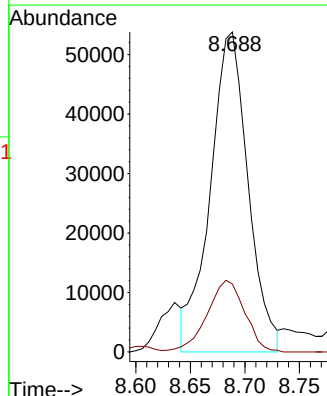
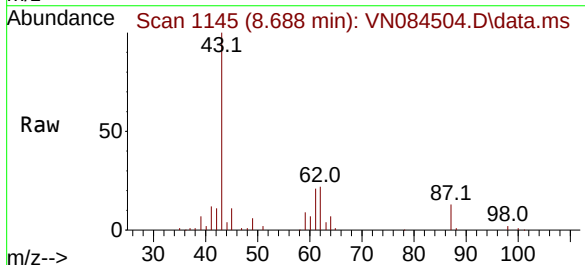
Acq: 25 Oct 2024 10:04

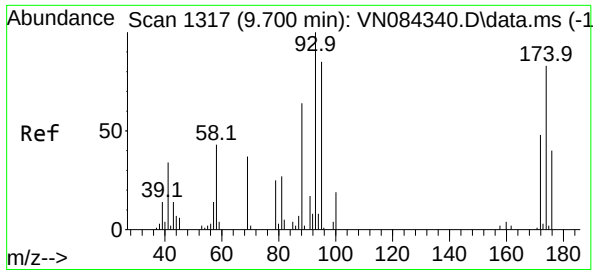
Tgt Ion: 43 Resp: 129797

Ion Ratio Lower Upper

43 100

61 22.3 21.4 32.2





#45

1,4-Dioxane

Concen: 352.143 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VN084504.D

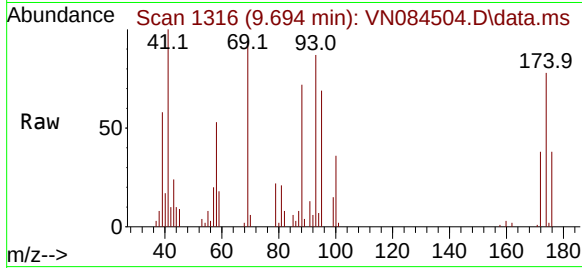
Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

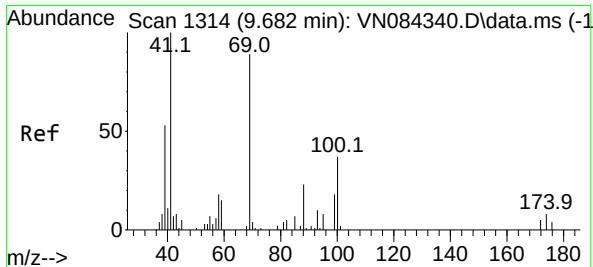
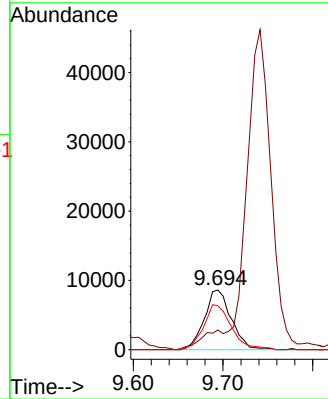
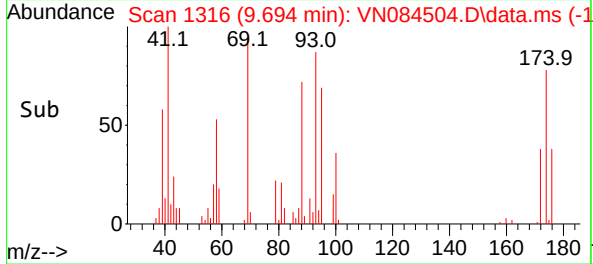


Tgt Ion:	88	Resp:	17930
Ion	Ratio	Lower	Upper
88	100		
43	27.6	22.4	33.6
58	78.1	59.7	89.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#46

Methyl methacrylate

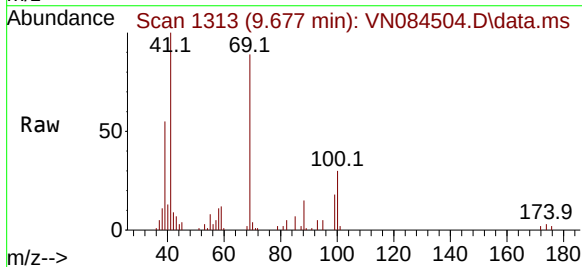
Concen: 17.177 ug/l

RT: 9.677 min Scan# 1313

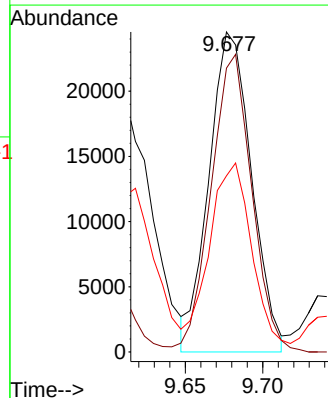
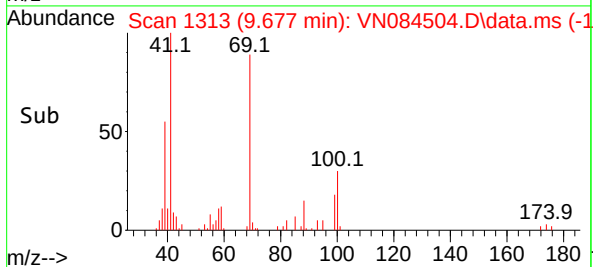
Delta R.T. -0.006 min

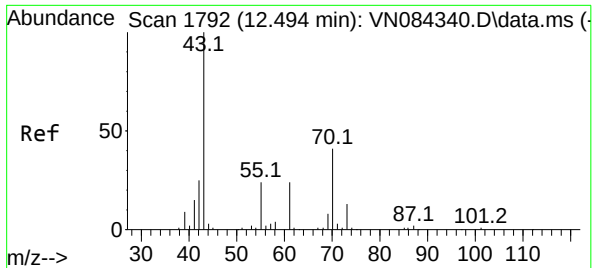
Lab File: VN084504.D

Acq: 25 Oct 2024 10:04



Tgt Ion:	41	Resp:	46876
Ion	Ratio	Lower	Upper
41	100		
69	90.5	42.6	128.0
39	54.1	27.5	82.4





#47

n-amy1 Acetate

Concen: 17.750 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 43 Resp: 89170

Ion Ratio Lower Upper

43 100

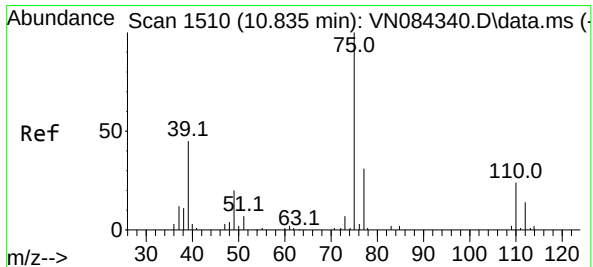
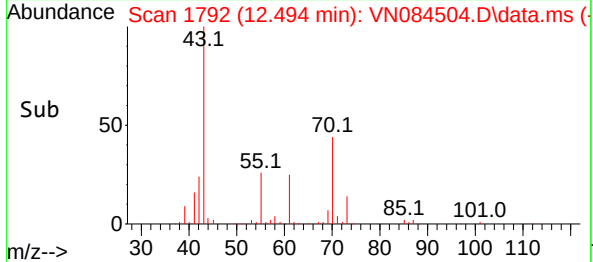
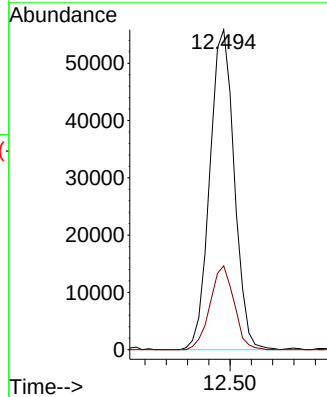
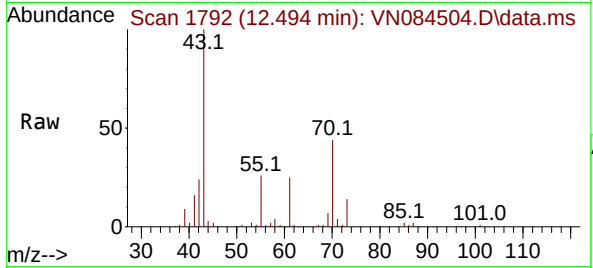
55 25.6 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#48

t-1,3-Dichloropropene

Concen: 18.475 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084504.D

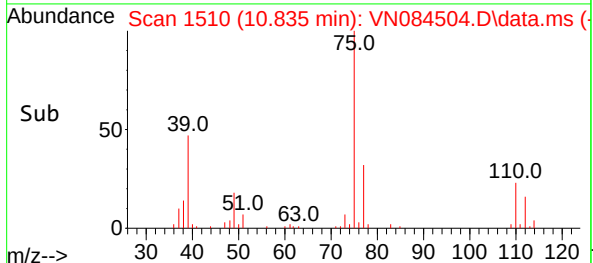
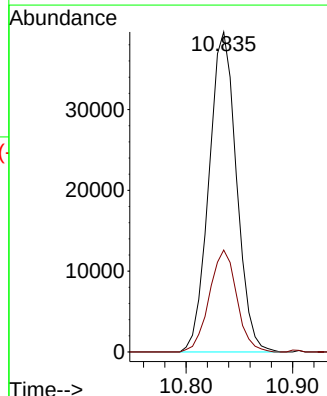
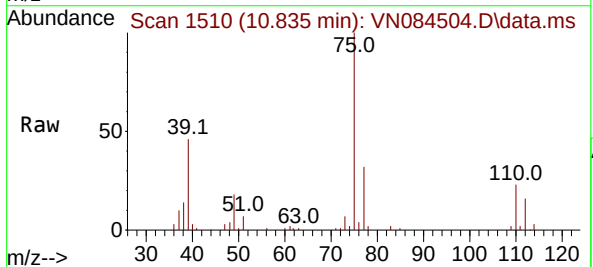
Acq: 25 Oct 2024 10:04

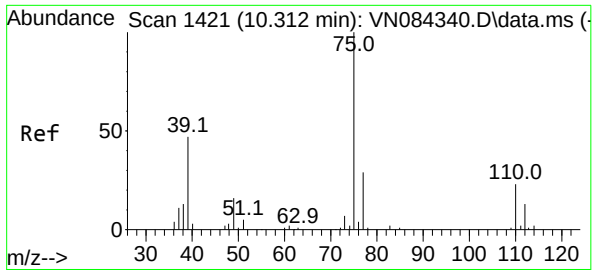
Tgt Ion: 75 Resp: 71062

Ion Ratio Lower Upper

75 100

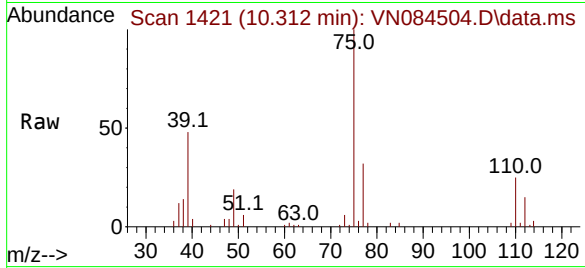
77 31.9 24.6 37.0





#49
cis-1,3-Dichloropropene
Concen: 18.697 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

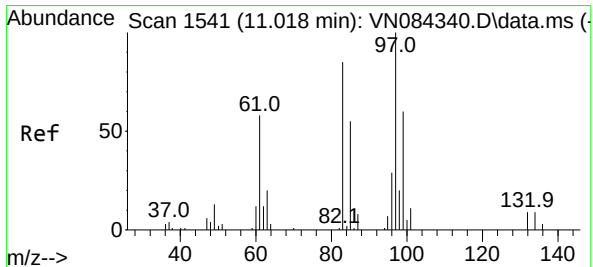
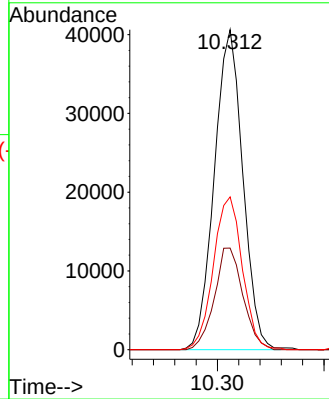
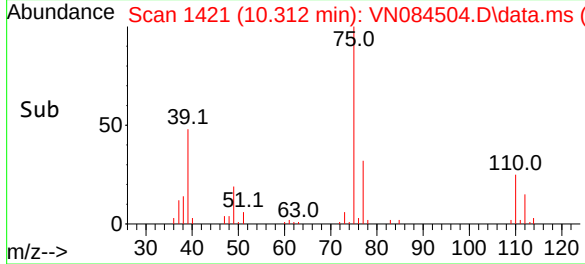
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 75 Resp: 75370
Ion Ratio Lower Upper
75 100
77 31.7 22.9 34.3
39 47.8 37.4 56.2

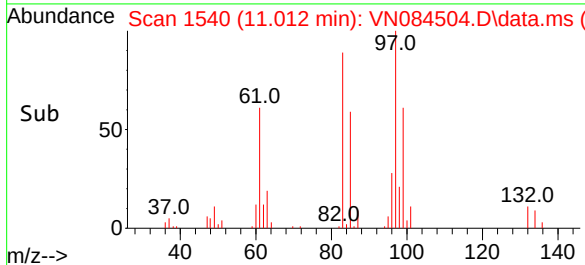
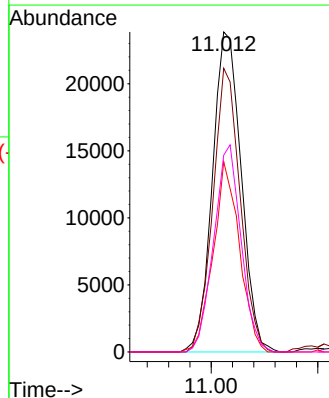
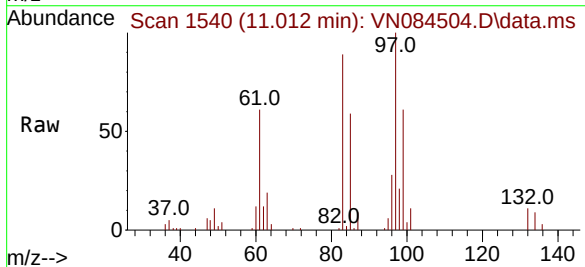
Manual Integrations
APPROVED

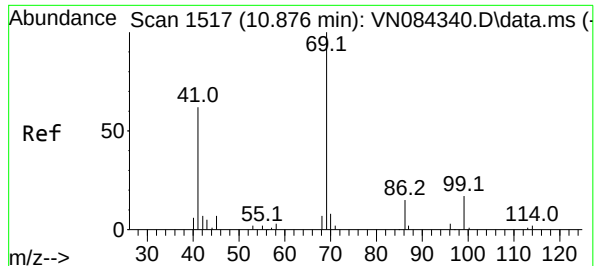
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#50
1,1,2-Trichloroethane
Concen: 18.979 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 97 Resp: 44728
Ion Ratio Lower Upper
97 100
83 88.7 67.8 101.8
85 59.4 44.2 66.2
99 61.5 47.8 71.8





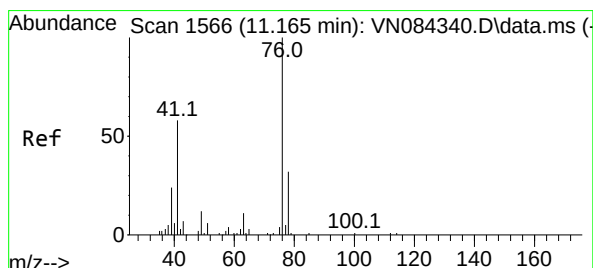
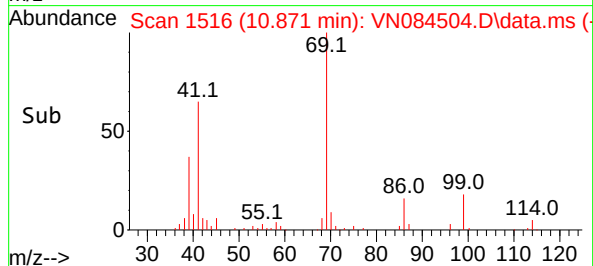
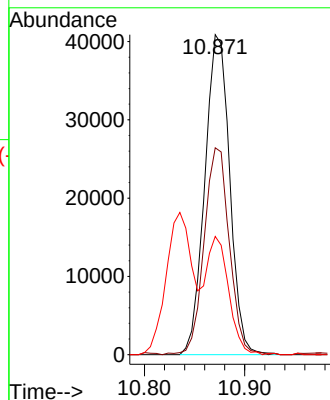
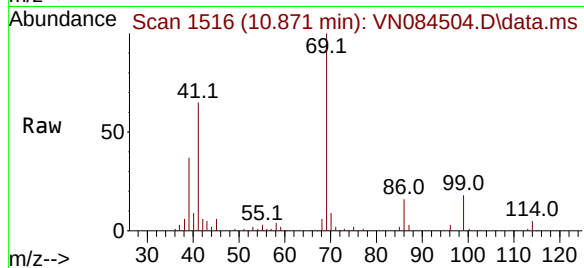
#51
Ethyl methacrylate
Concen: 18.181 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 69 Resp: 70772
Ion Ratio Lower Upper
69 100
41 64.6 30.9 92.7
39 37.0 16.6 49.7

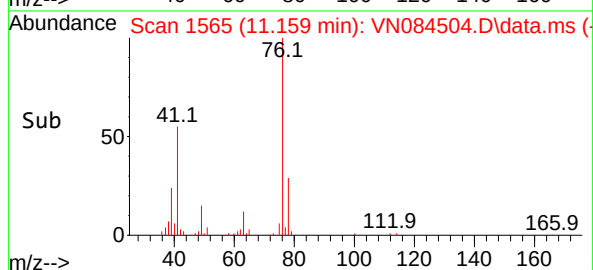
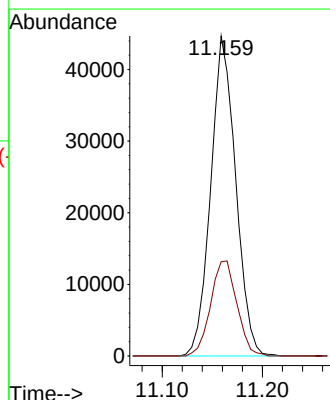
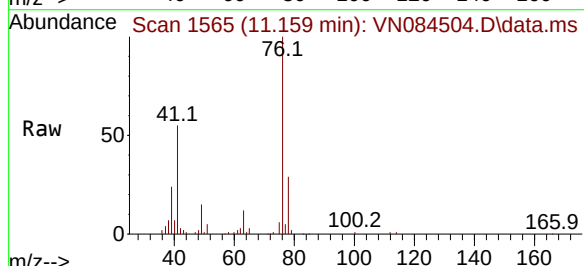
Manual Integrations
APPROVED

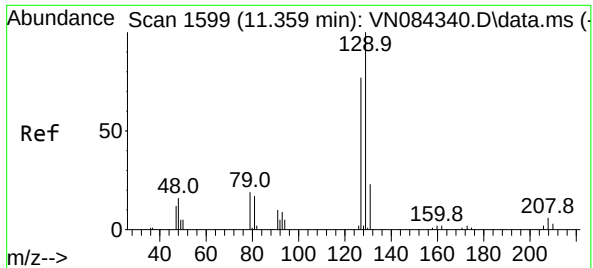
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#52
1,3-Dichloropropane
Concen: 18.738 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

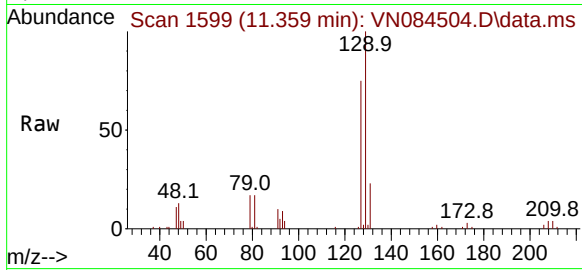
Tgt Ion: 76 Resp: 77213
Ion Ratio Lower Upper
76 100
78 31.3 0.0 64.2





#53
Dibromochloromethane
Concen: 18.817 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

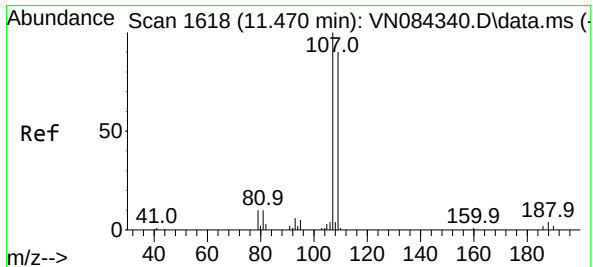
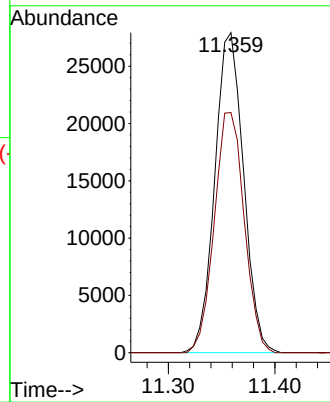
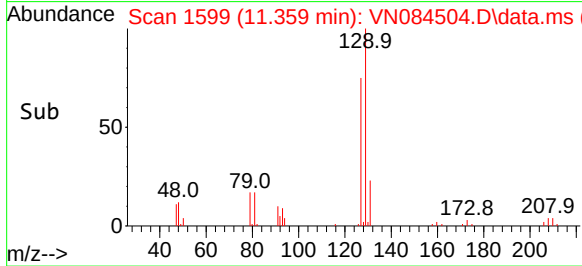
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



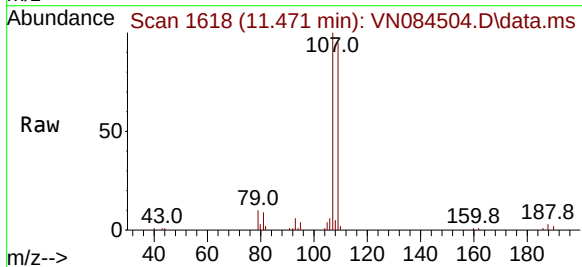
Tgt Ion:129 Resp: 5238
Ion Ratio Lower Upper
129 100
127 77.9 38.5 115.5

Manual Integrations
APPROVED

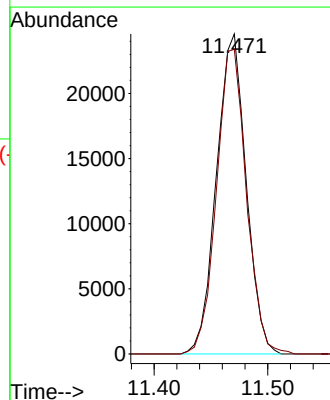
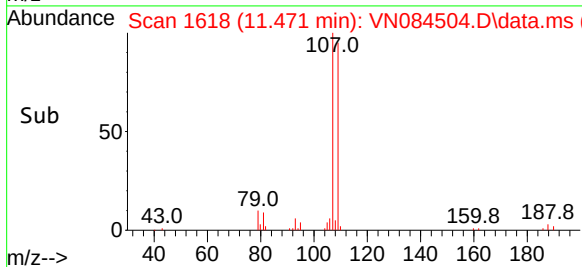
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

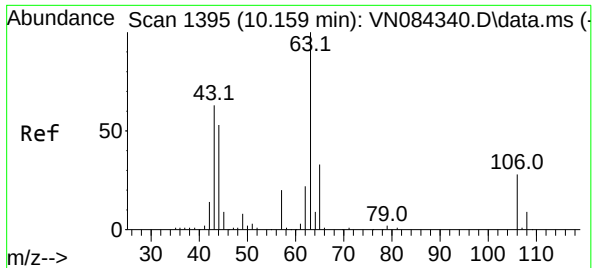


#54
1,2-Dibromoethane
Concen: 18.368 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04



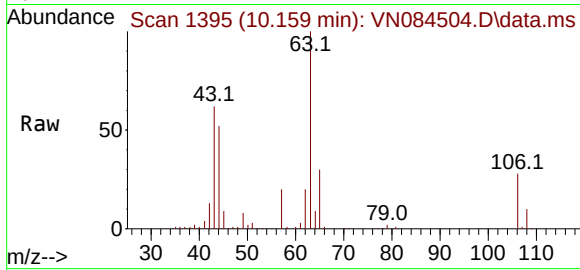
Tgt Ion:107 Resp: 44557
Ion Ratio Lower Upper
107 100
109 96.1 73.8 110.6





#55
2-Chloroethyl vinyl ether
Concen: 88.623 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

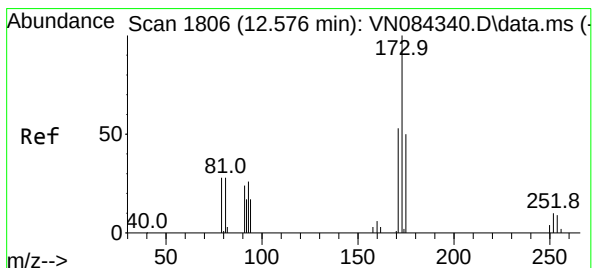
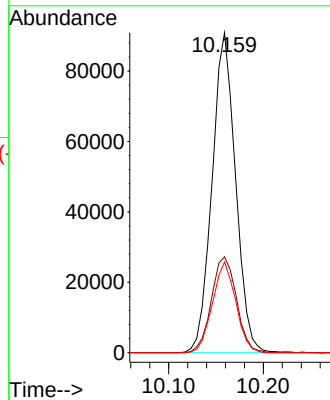
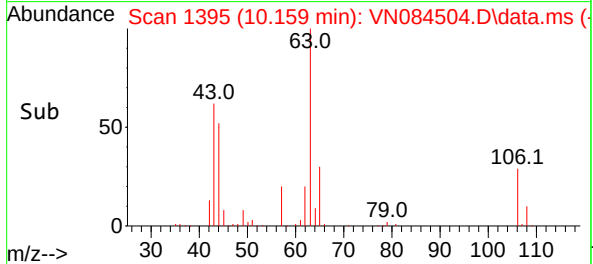
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 63 Resp: 15646
Ion Ratio Lower Upper
63 100
65 31.9 25.6 38.4
106 28.1 21.6 32.4

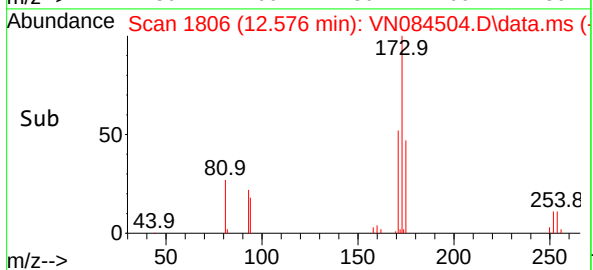
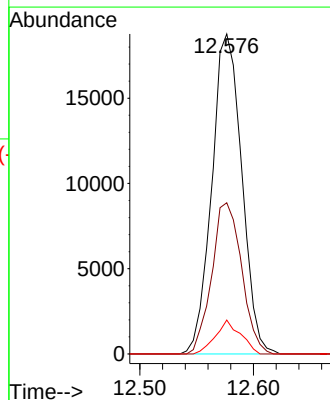
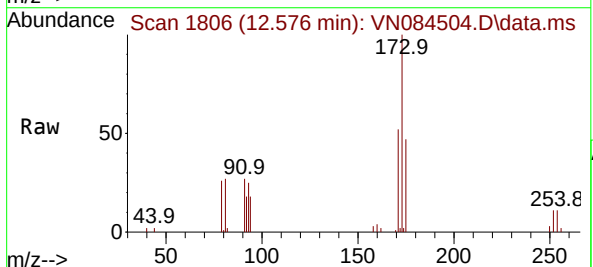
Manual Integrations
APPROVED

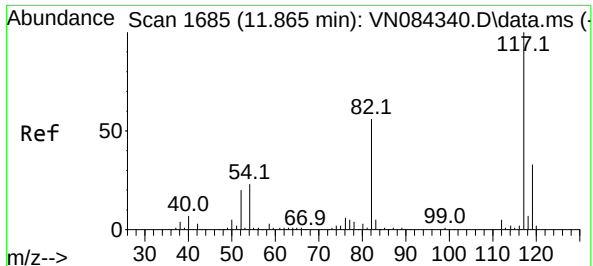
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#56
Bromoform
Concen: 18.609 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

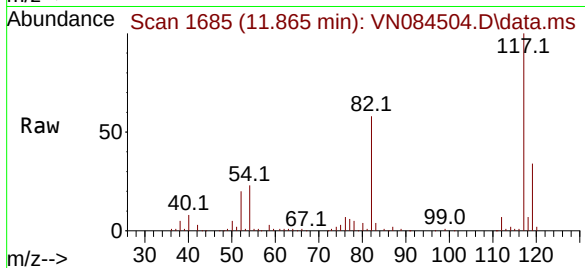
Tgt Ion:173 Resp: 34361
Ion Ratio Lower Upper
173 100
175 47.1 39.4 59.2
254 8.9 6.8 10.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

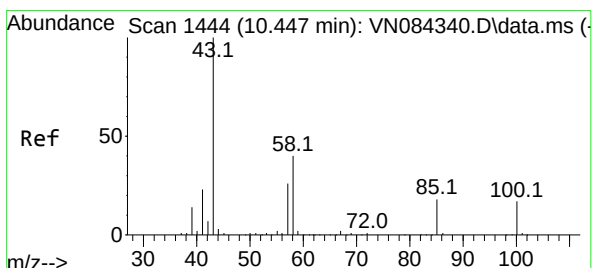
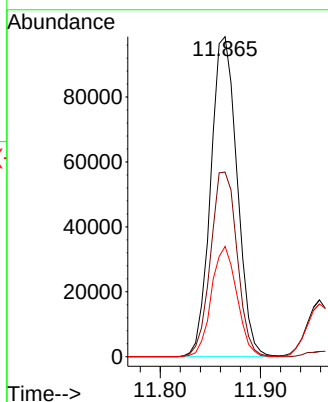
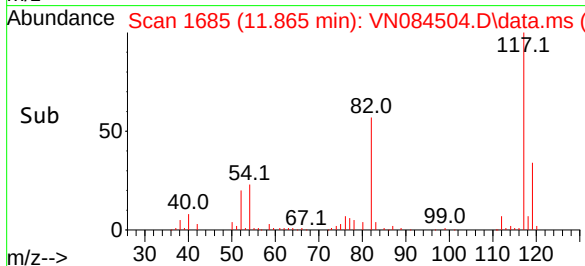
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 117 Resp: 180518
Ion Ratio Lower Upper
117 100
82 58.0 46.2 69.4
119 33.2 25.4 38.2

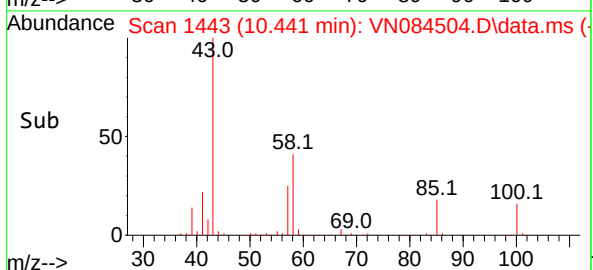
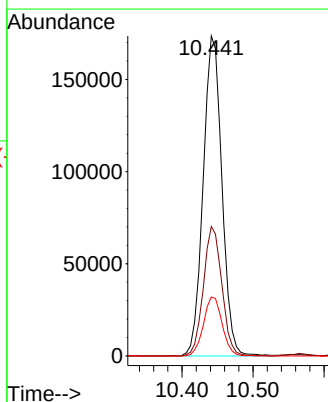
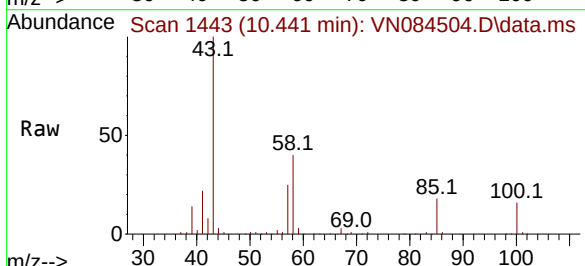
Manual Integrations
APPROVED

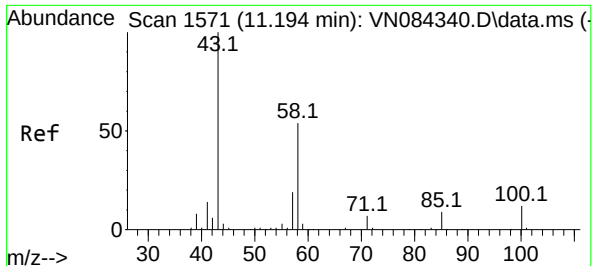
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#58
4-Methyl-2-Pentanone
Concen: 94.836 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

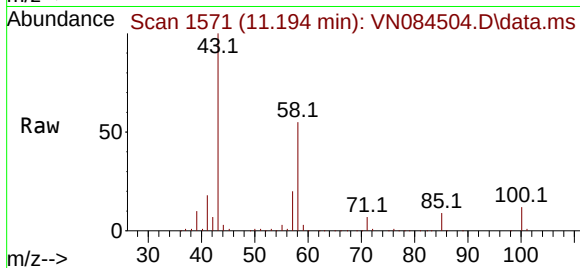
Tgt Ion: 43 Resp: 318910
Ion Ratio Lower Upper
43 100
58 39.8 31.9 47.9
85 18.4 14.6 22.0





#59
2-Hexanone
Concen: 97.858 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

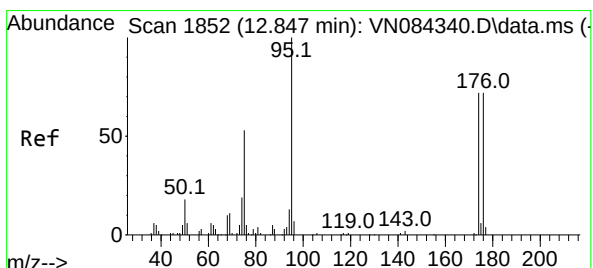
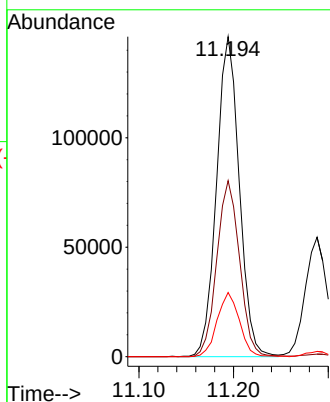
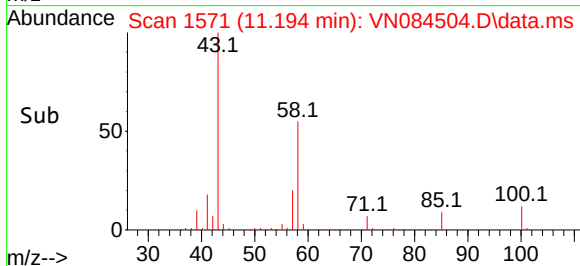
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 43 Resp: 24452
Ion Ratio Lower Upper
43 100
58 55.1 44.0 66.0
57 19.6 15.4 23.2

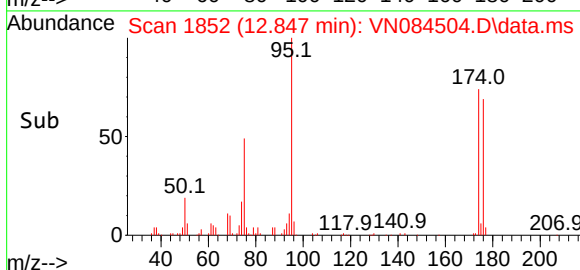
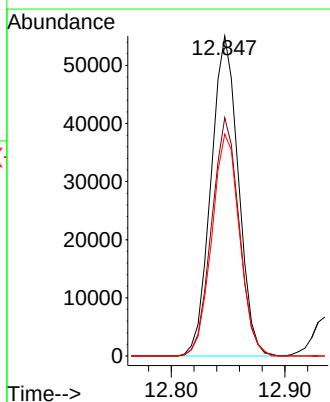
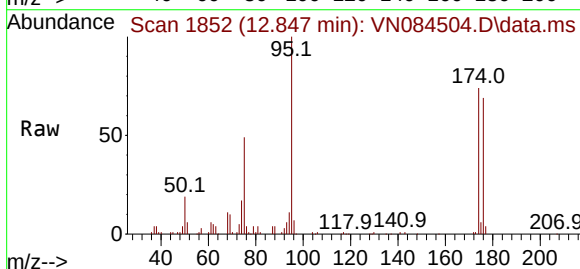
Manual Integrations
APPROVED

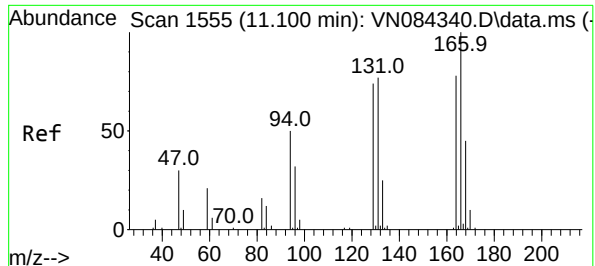
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#60
4-Bromofluorobenzene
Concen: 30.944 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

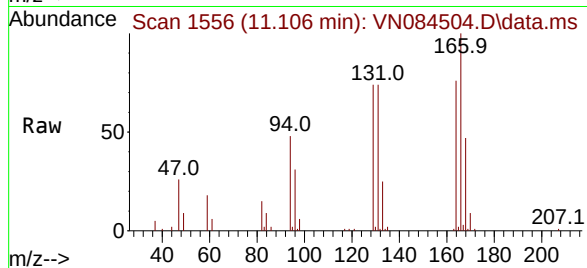
Tgt Ion: 95 Resp: 92192
Ion Ratio Lower Upper
95 100
174 74.4 58.2 87.2
176 70.3 56.4 84.6





#61
Tetrachloroethene
Concen: 20.529 ug/l
RT: 11.106 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

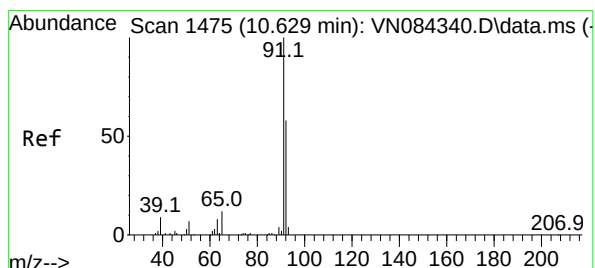
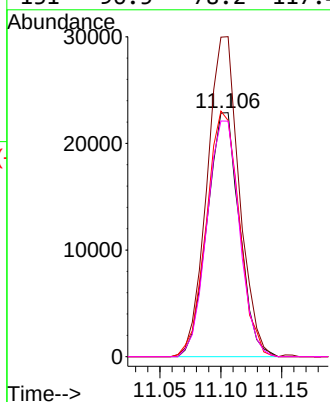
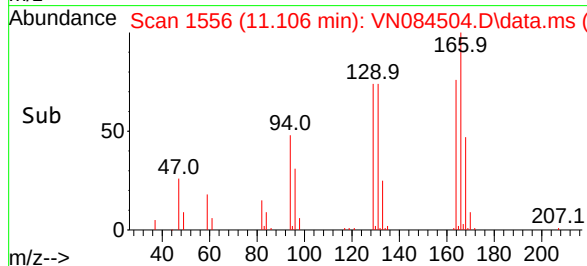
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:164 Resp: 41919
Ion Ratio Lower Upper
164 100
166 131.2 102.5 153.7
129 96.8 75.7 113.5
131 96.5 78.2 117.4

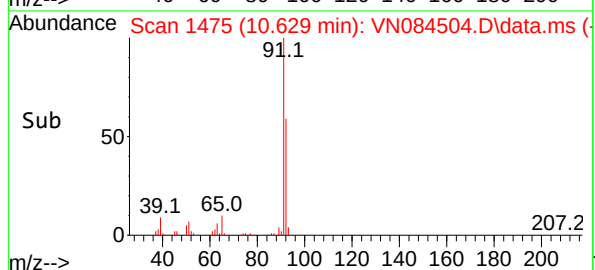
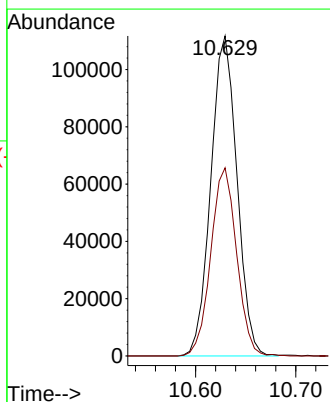
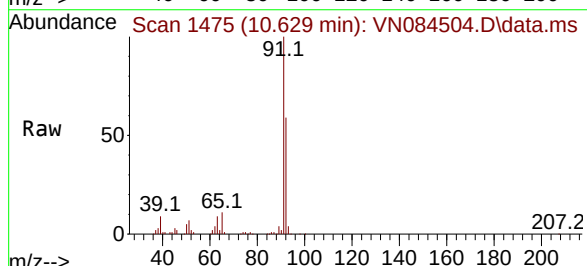
Manual Integrations
APPROVED

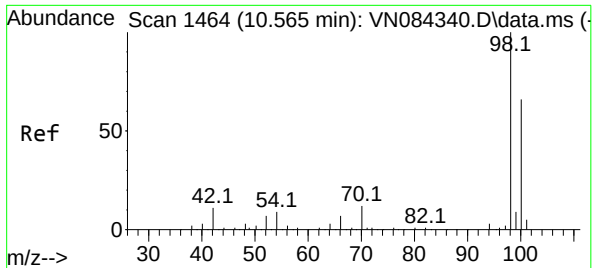
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#62
Toluene
Concen: 19.171 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

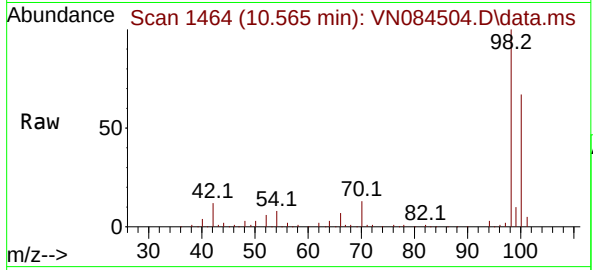
Tgt Ion: 91 Resp: 202597
Ion Ratio Lower Upper
91 100
92 58.0 47.2 70.8





#63
Toluene-d8
Concen: 30.014 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

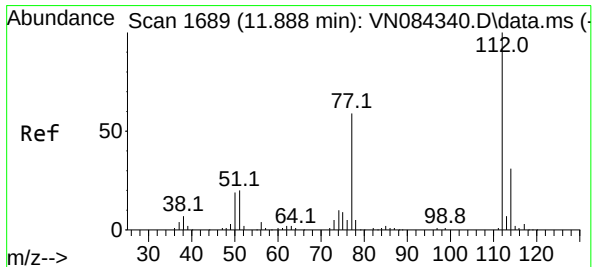
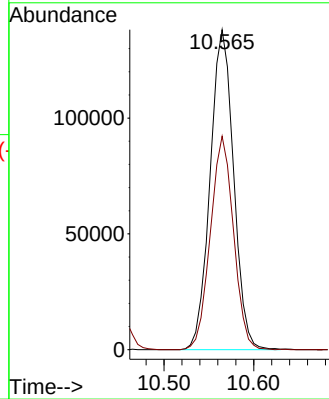
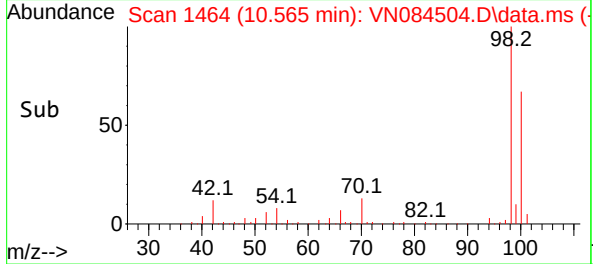
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 98 Resp: 25100
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7

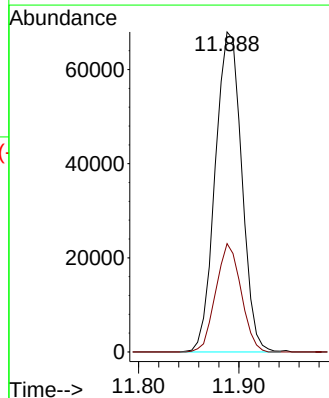
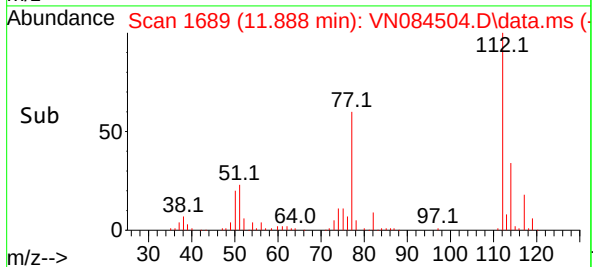
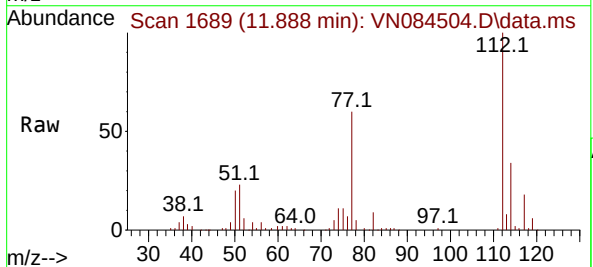
Manual Integrations
APPROVED

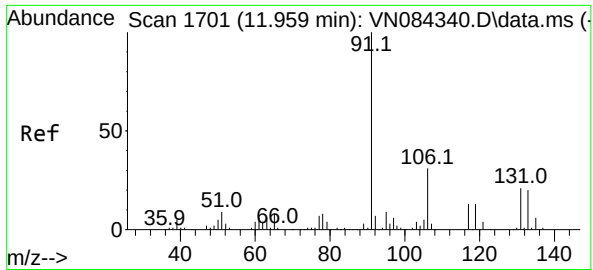
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#64
Chlorobenzene
Concen: 18.968 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion:112 Resp: 124737
Ion Ratio Lower Upper
112 100
114 33.9 25.1 37.7





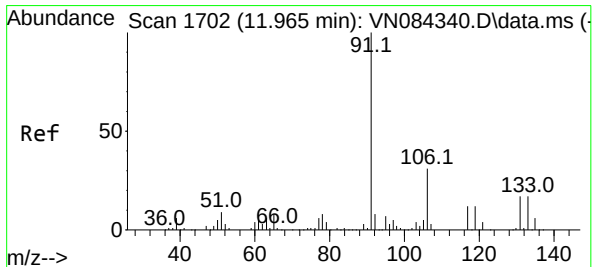
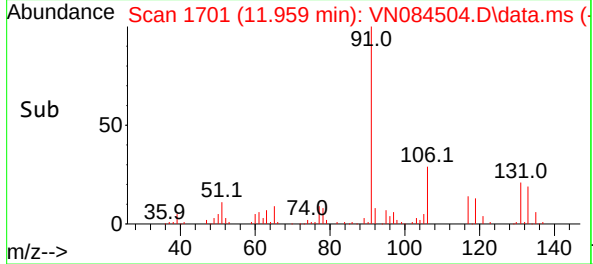
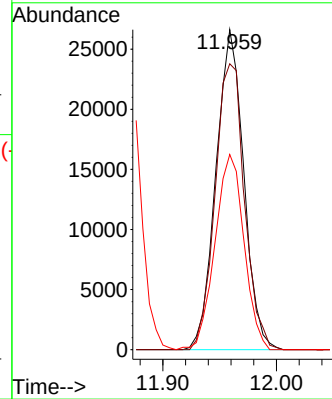
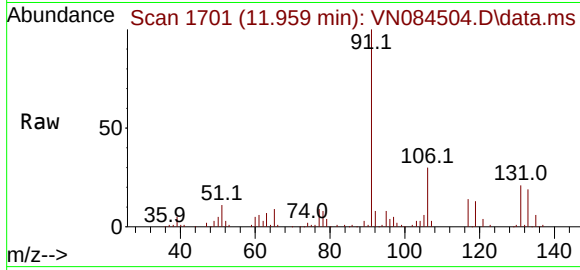
#65
1,1,1,2-Tetrachloroethane
Concen: 19.810 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:131 Resp: 45259
Ion Ratio Lower Upper
131 100
133 94.7 0.0 190.4
119 63.6 0.0 130.0

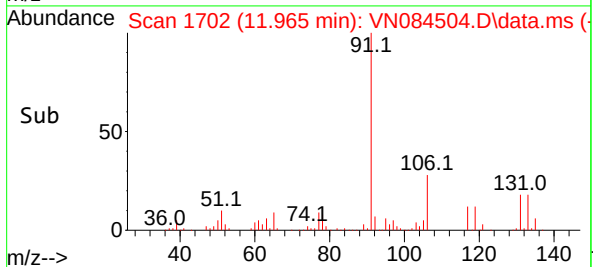
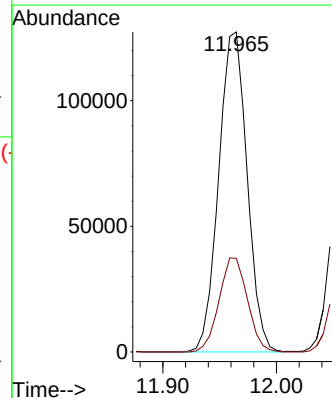
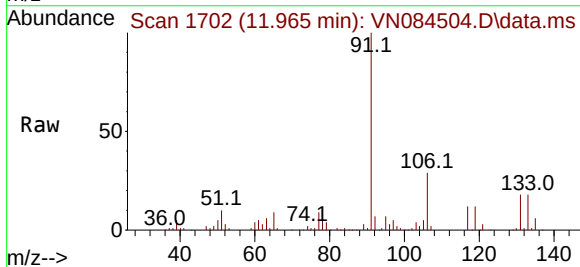
Manual Integrations
APPROVED

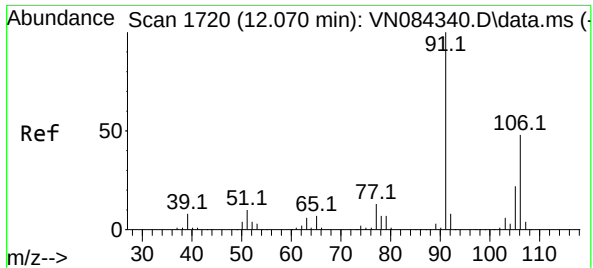
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#66
Ethyl Benzene
Concen: 19.279 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 91 Resp: 221348
Ion Ratio Lower Upper
91 100
106 29.2 25.2 37.8





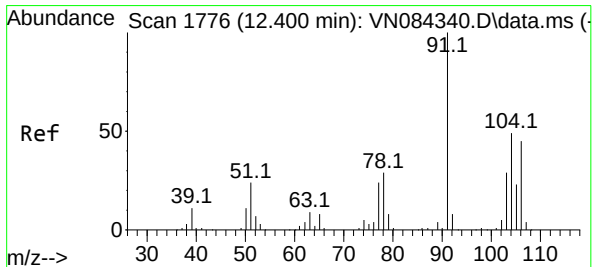
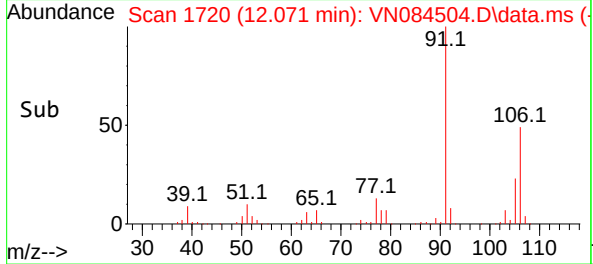
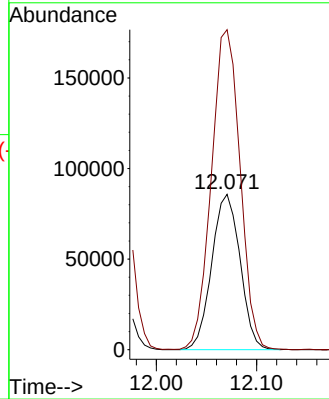
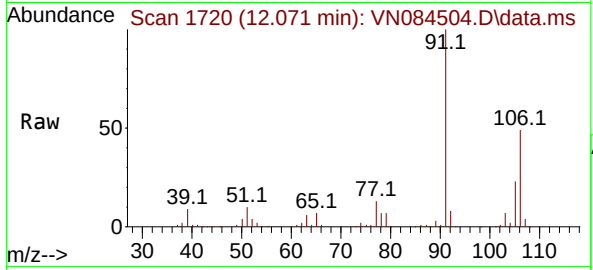
#67
m/p-Xylenes
Concen: 38.666 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:106 Resp: 168410
Ion Ratio Lower Upper
106 100
91 208.8 166.7 250.1

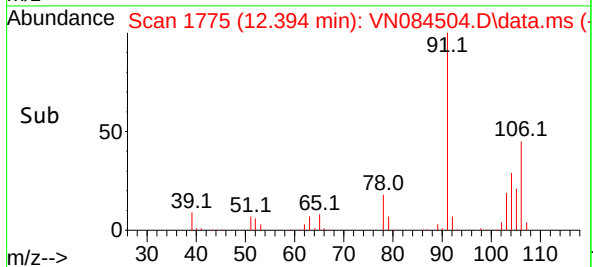
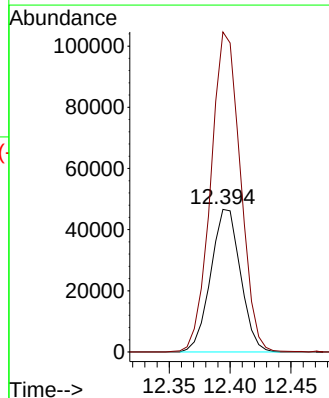
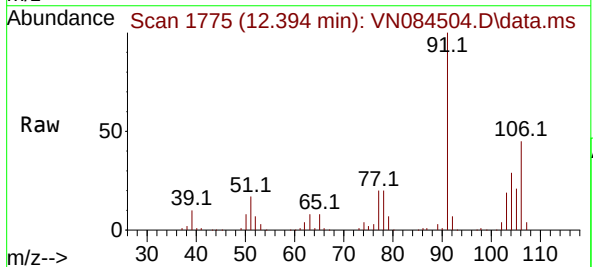
Manual Integrations
APPROVED

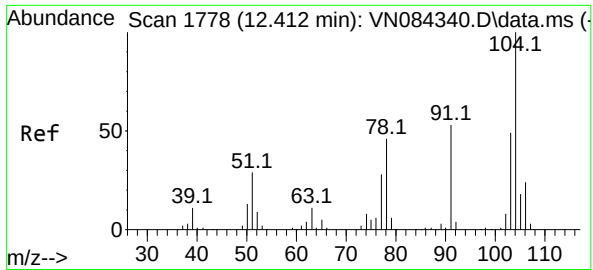
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#68
o-Xylene
Concen: 18.914 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

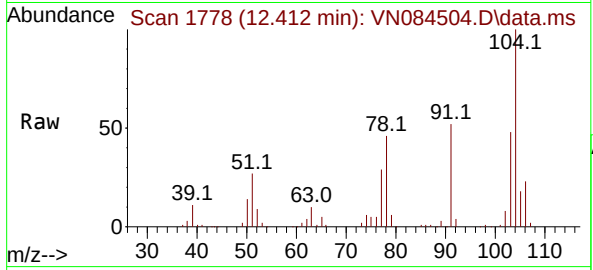
Tgt Ion:106 Resp: 79405
Ion Ratio Lower Upper
106 100
91 223.0 110.9 332.9





#69
Styrene
Concen: 18.946 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

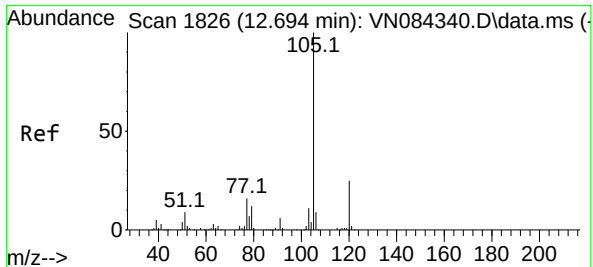
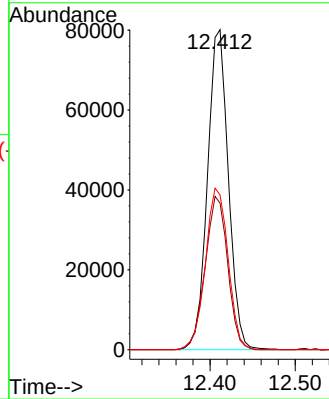
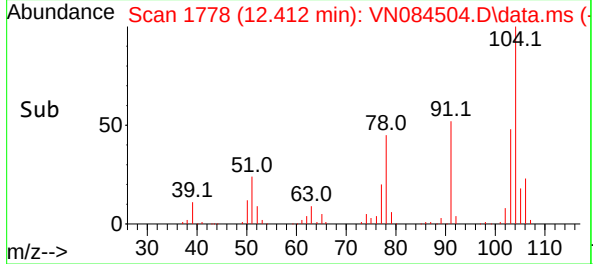
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:104 Resp: 13654
Ion Ratio Lower Upper
104 100
78 51.7 41.6 62.4
103 55.0 44.4 66.6

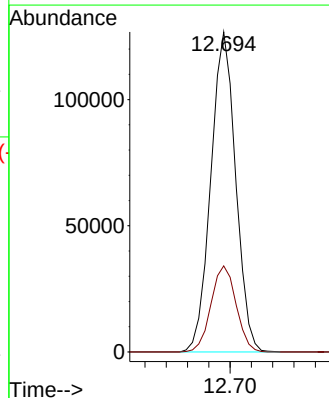
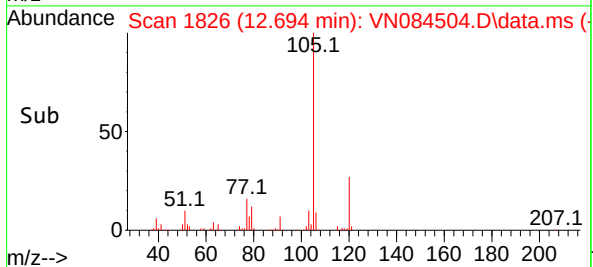
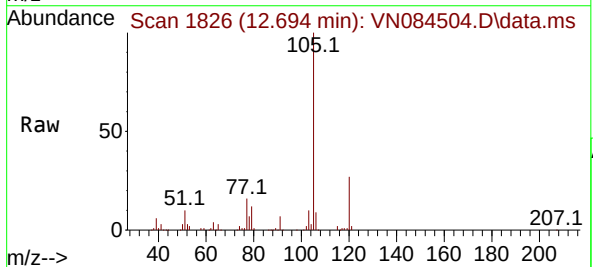
Manual Integrations
APPROVED

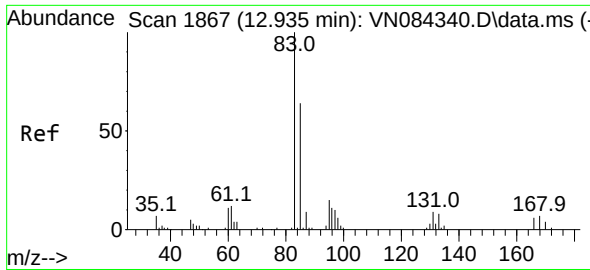
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#70
Isopropylbenzene
Concen: 19.115 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

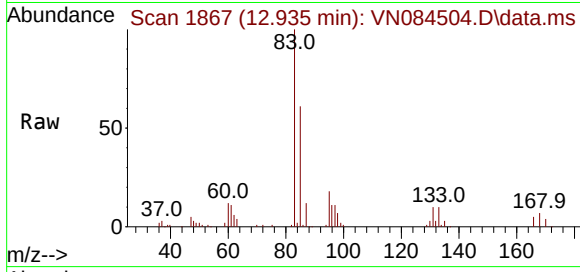
Tgt Ion:105 Resp: 204870
Ion Ratio Lower Upper
105 100
120 27.1 17.4 32.4





#71
1,1,2,2-Tetrachloroethane
Concen: 19.381 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

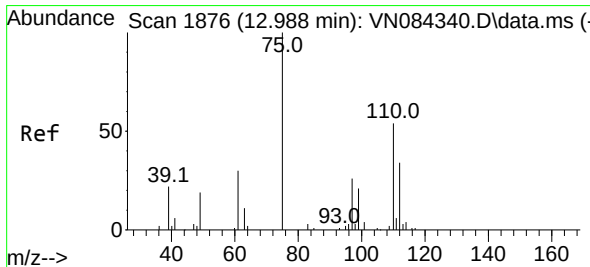
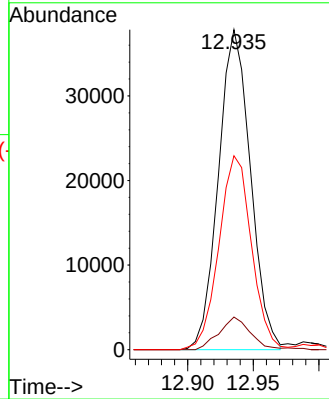
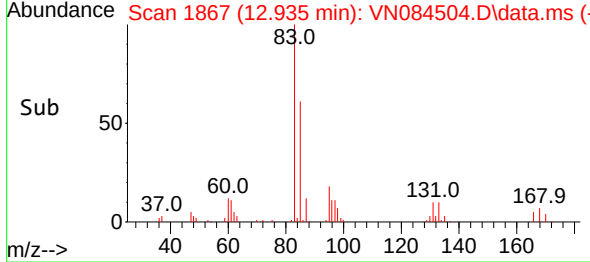
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 83 Resp: 6425
Ion Ratio Lower Upper
83 100
131 9.8 5.1 15.3
85 61.6 32.0 96.2

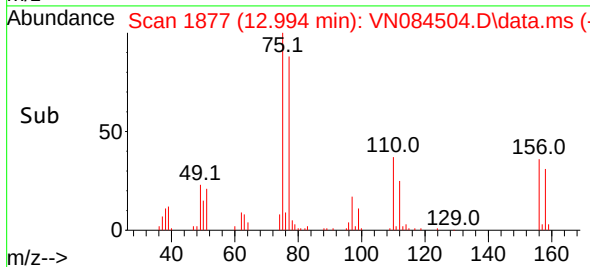
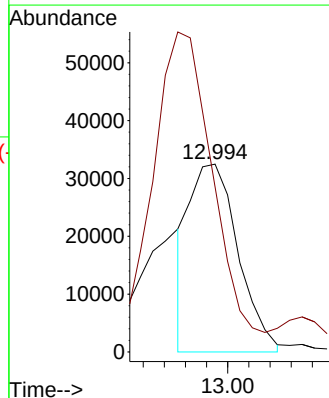
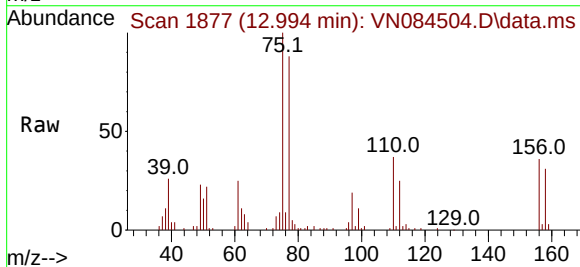
Manual Integrations
APPROVED

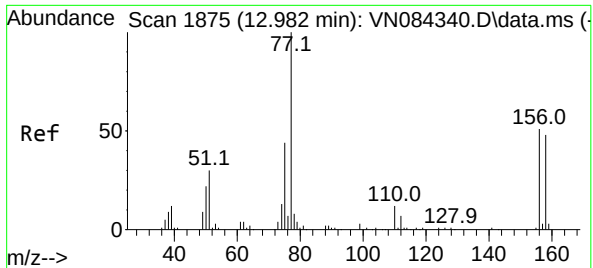
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#72
1,2,3-Trichloropropane
Concen: 18.267 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

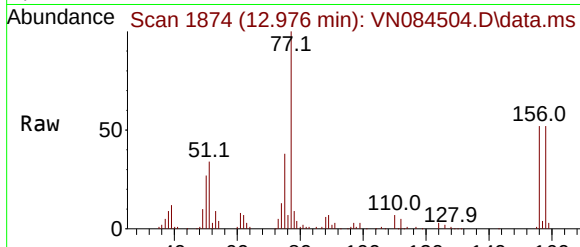
Tgt Ion: 75 Resp: 51869
Ion Ratio Lower Upper
75 100
77 214.4 0.0 414.0





#73
Bromobenzene
Concen: 19.131 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

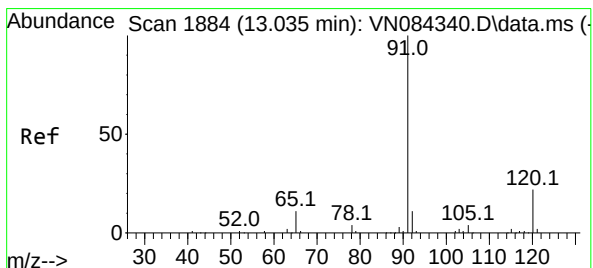
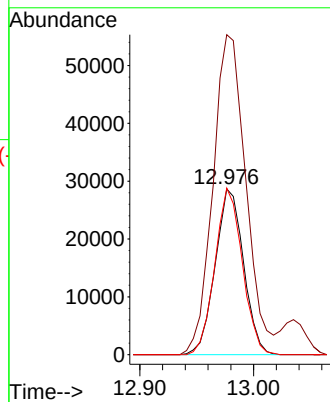
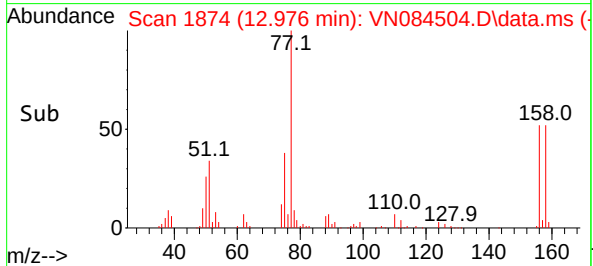
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:156 Resp: 4965
Ion Ratio Lower Upper
156 100
77 223.9 0.0 451.0
158 97.3 0.0 194.6

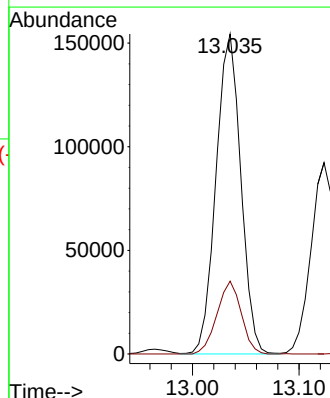
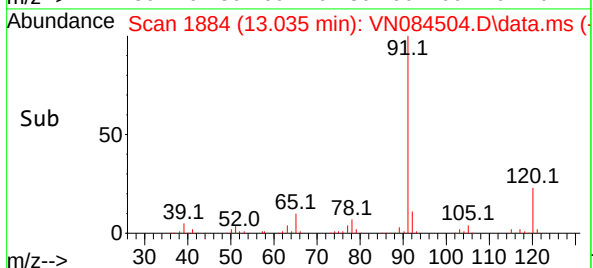
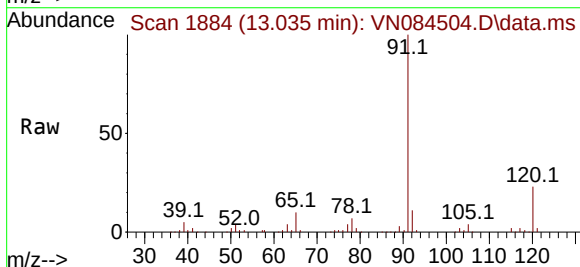
Manual Integrations
APPROVED

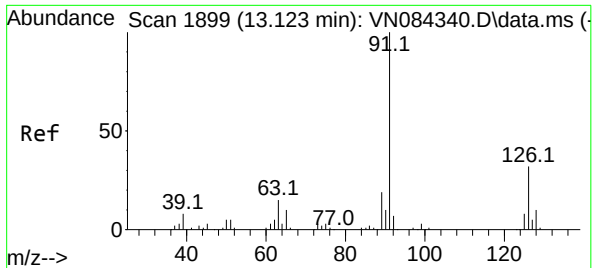
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#74
n-propylbenzene
Concen: 19.531 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion: 91 Resp: 249446
Ion Ratio Lower Upper
91 100
120 22.2 0.0 43.2





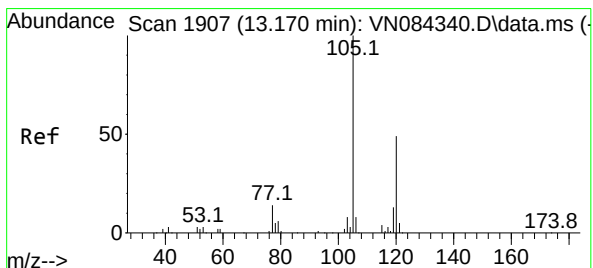
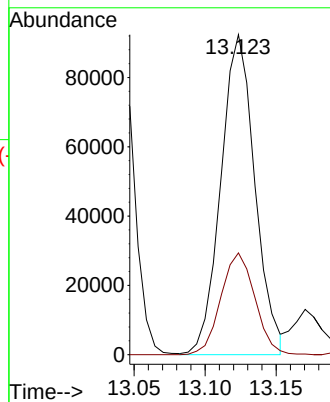
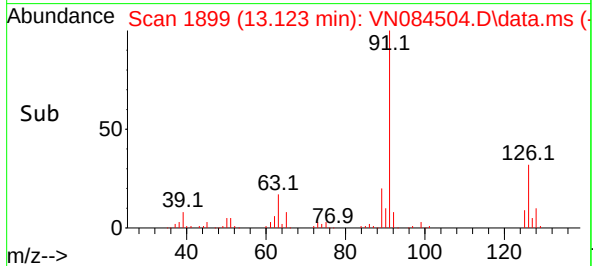
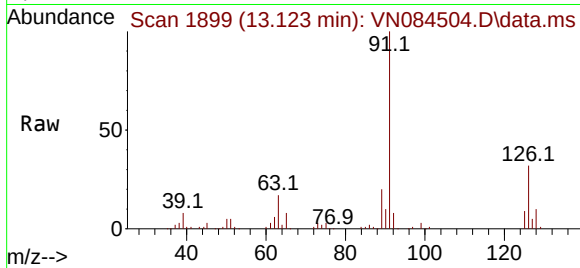
#75
2-Chlorotoluene
Concen: 19.418 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 15410
Ion Ratio Lower Upper
91 100
126 31.7 0.0 64.0

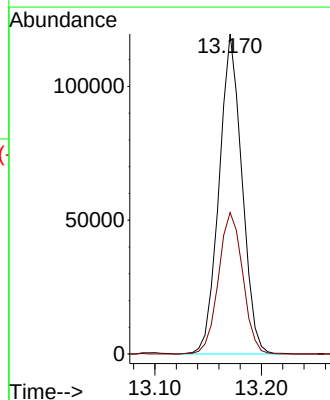
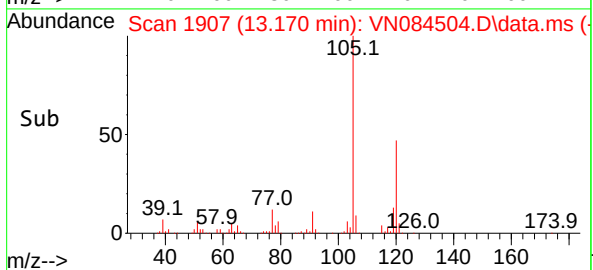
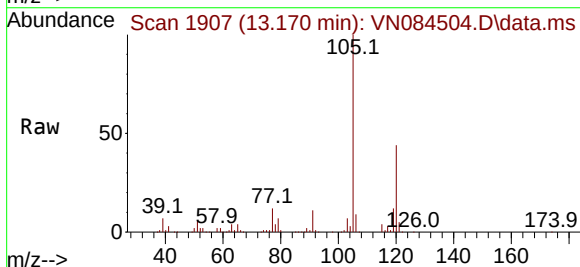
Manual Integrations
APPROVED

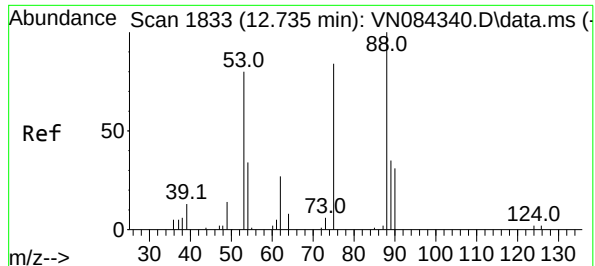
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#76
1,3,5-Trimethylbenzene
Concen: 19.747 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion:105 Resp: 178201
Ion Ratio Lower Upper
105 100
120 46.8 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 18.550 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 75 Resp: 22508

Ion Ratio Lower Upper

75 100

53 95.1 47.3 142.0

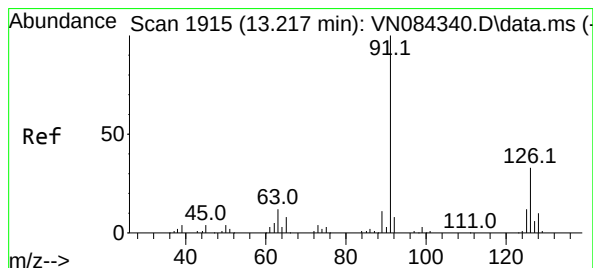
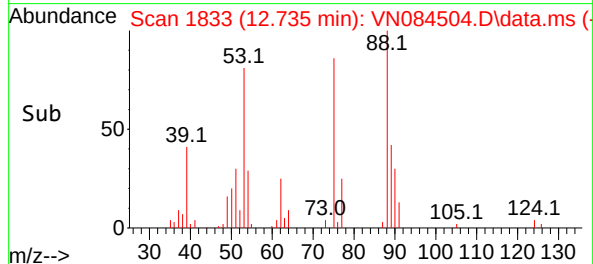
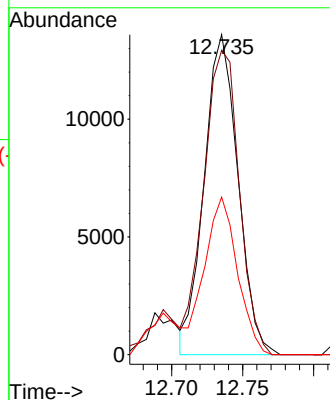
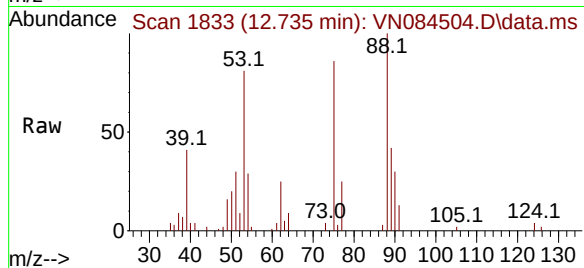
89 49.3 22.9 68.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#78

4-Chlorotoluene

Concen: 19.368 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN084504.D

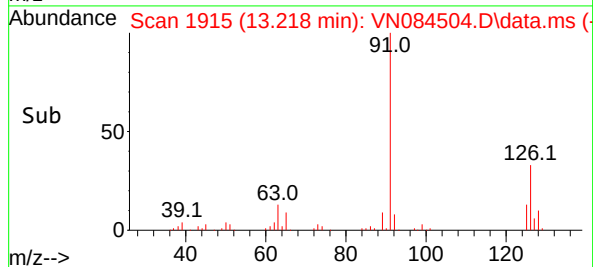
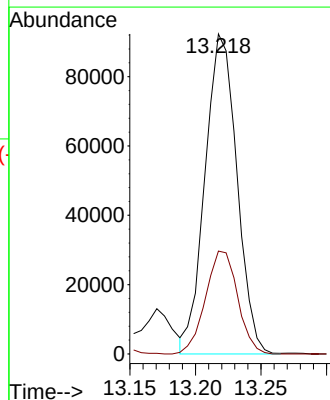
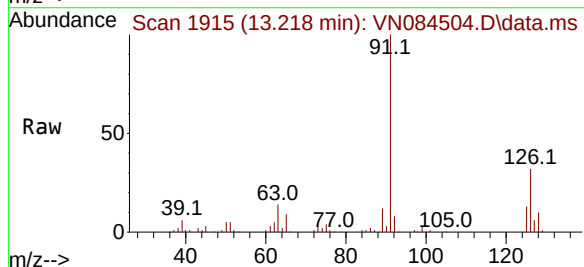
Acq: 25 Oct 2024 10:04

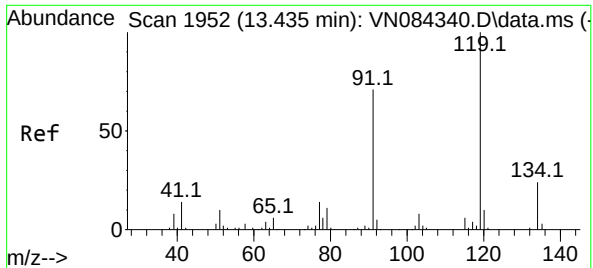
Tgt Ion: 91 Resp: 156277

Ion Ratio Lower Upper

91 100

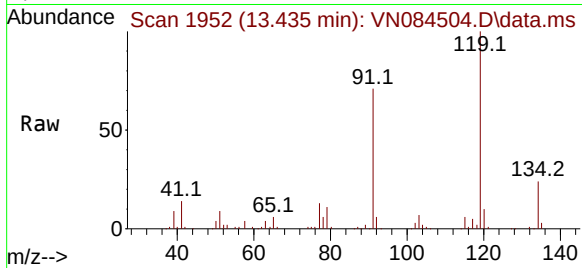
126 32.3 0.0 62.4





#79
tert-butylbenzene
Concen: 19.464 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

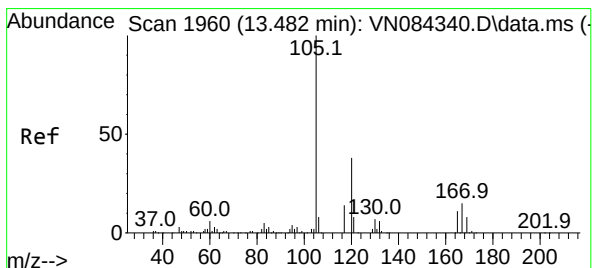
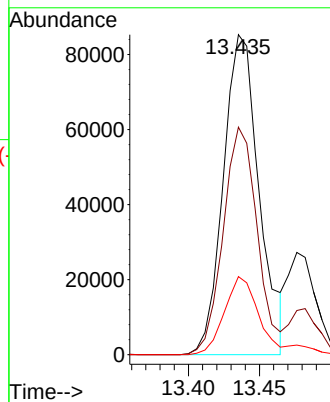
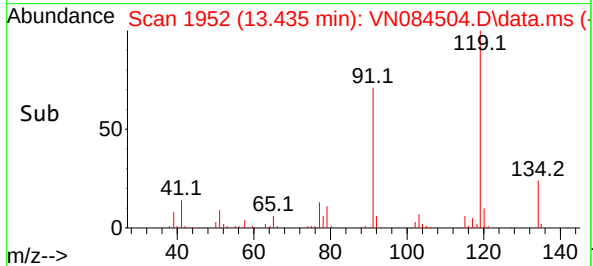
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:119 Resp: 14985
Ion Ratio Lower Upper
119 100
91 67.8 0.0 138.0
134 22.9 0.0 48.8

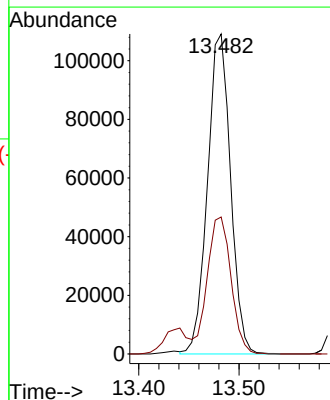
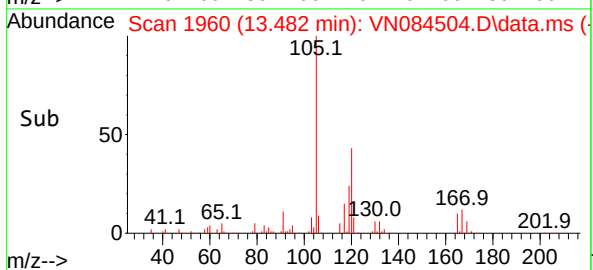
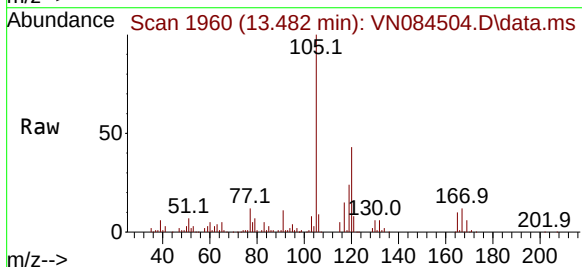
Manual Integrations
APPROVED

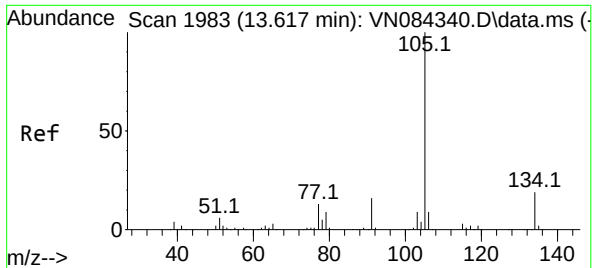
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#80
1,2,4-Trimethylbenzene
Concen: 19.081 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion:105 Resp: 174715
Ion Ratio Lower Upper
105 100
120 44.0 0.0 88.8





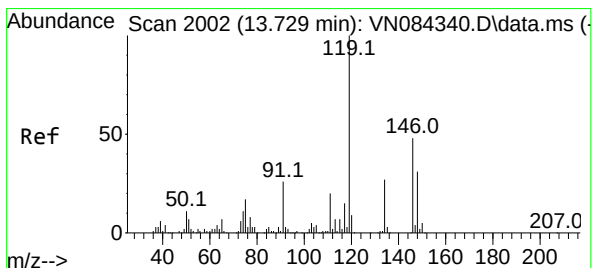
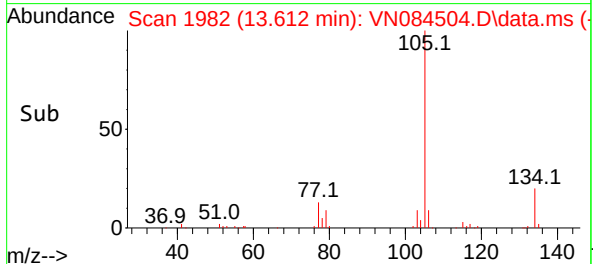
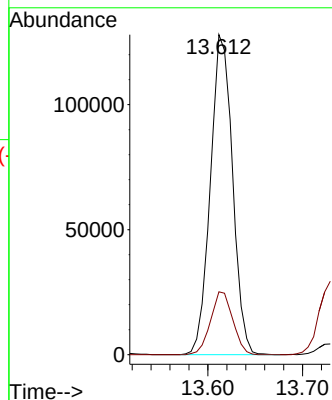
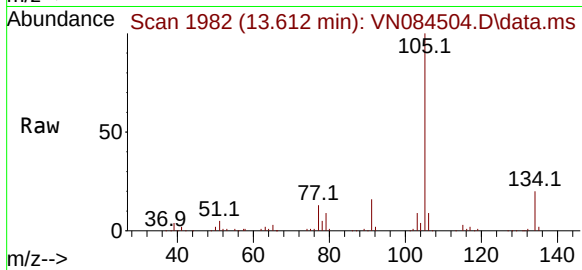
#81
 sec-Butylbenzene
 Concen: 19.600 ug/l
 RT: 13.612 min Scan# 1983
 Delta R.T. -0.006 min
 Lab File: VN084504.D
 Acq: 25 Oct 2024 10:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tgt Ion:105 Resp: 207740
 Ion Ratio Lower Upper
 105 100
 134 19.7 0.0 38.0

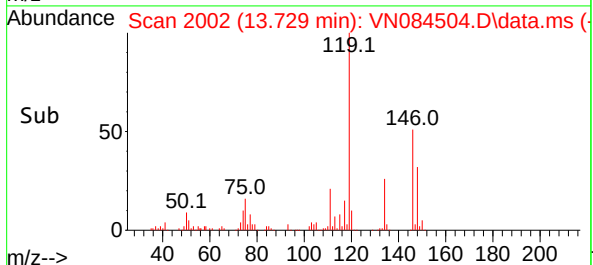
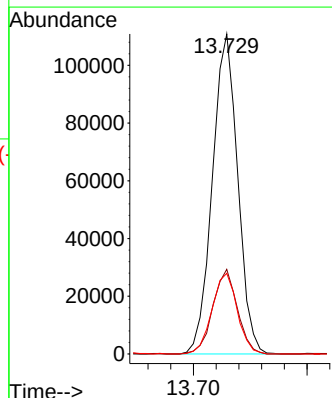
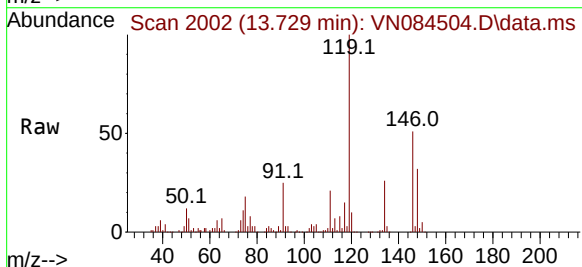
Manual Integrations
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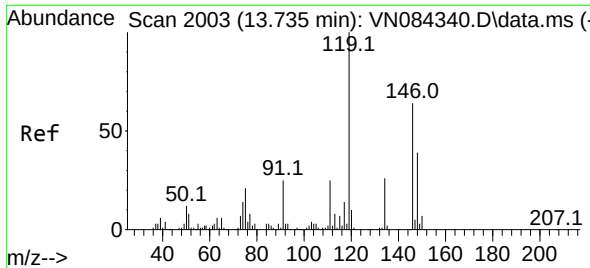
Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024



#82
 p-Isopropyltoluene
 Concen: 19.272 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN084504.D
 Acq: 25 Oct 2024 10:04

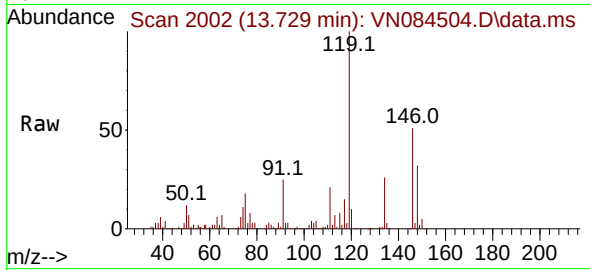
Tgt Ion:119 Resp: 171934
 Ion Ratio Lower Upper
 119 100
 134 25.6 0.0 50.2
 91 25.1 0.0 50.6





#83
1,3-Dichlorobenzene
Concen: 19.307 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

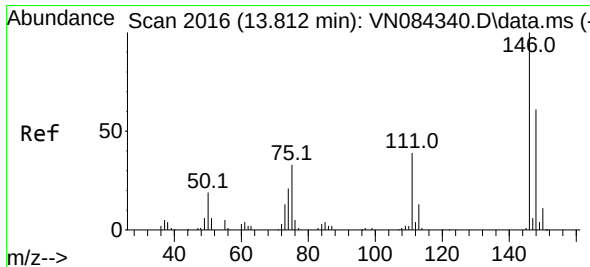
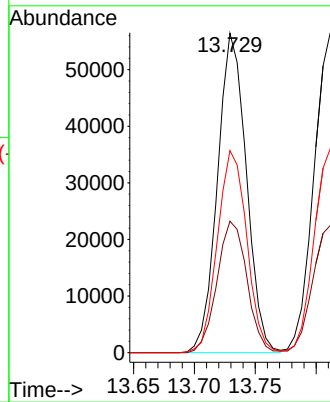
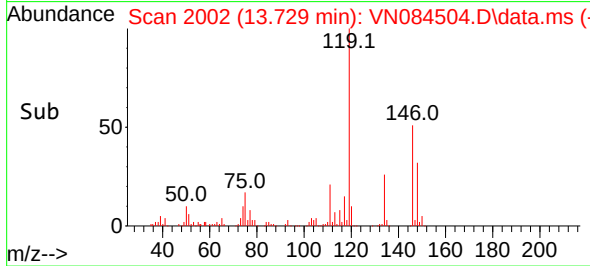
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:146 Resp: 93180
Ion Ratio Lower Upper
146 100
111 42.7 20.6 61.9
148 64.3 31.6 94.7

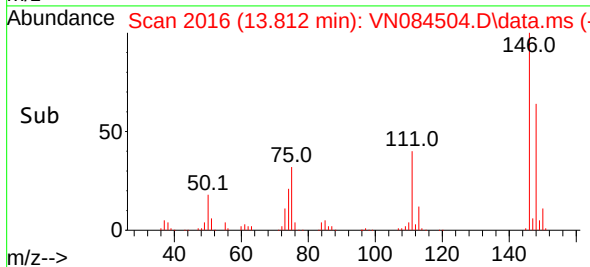
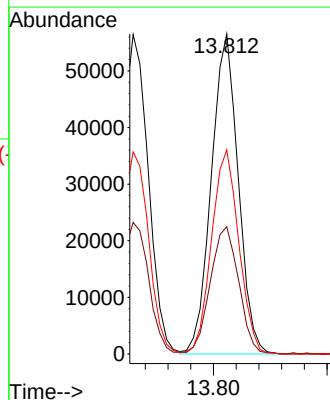
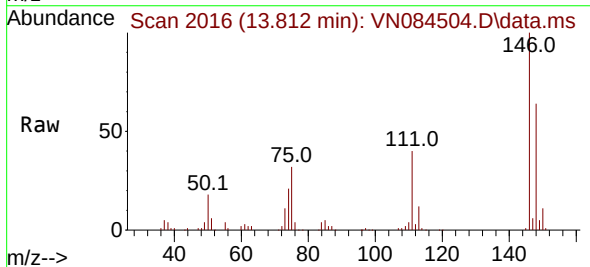
Manual Integrations
APPROVED

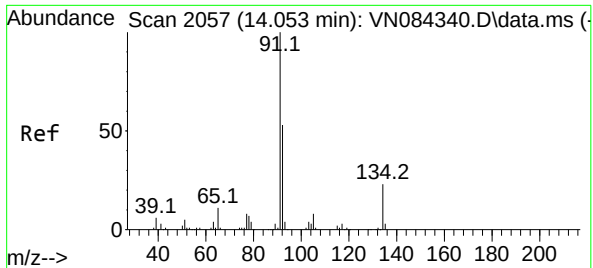
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#84
1,4-Dichlorobenzene
Concen: 19.397 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion:146 Resp: 92963
Ion Ratio Lower Upper
146 100
111 42.0 20.5 61.5
148 64.7 32.5 97.4





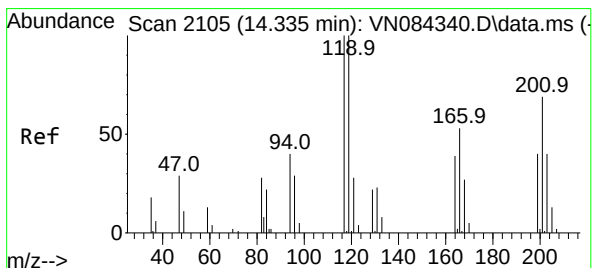
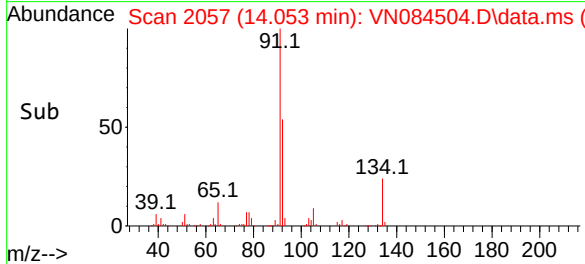
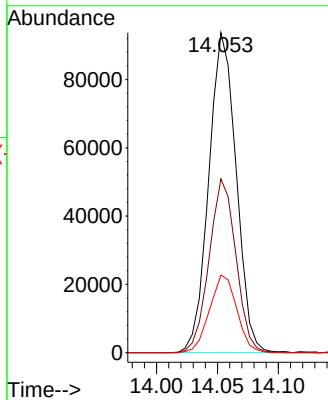
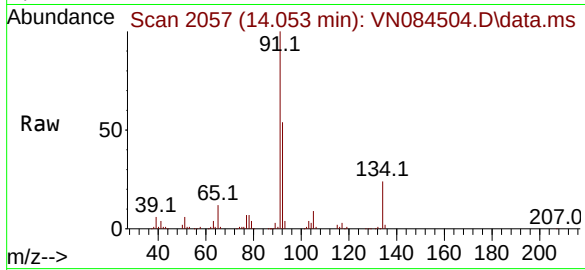
#85
n-Butylbenzene
Concen: 18.976 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 146629
Ion Ratio Lower Upper
91 100
92 53.2 0.0 103.4
134 24.2 0.0 48.0

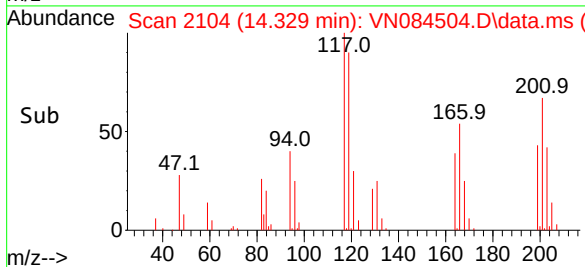
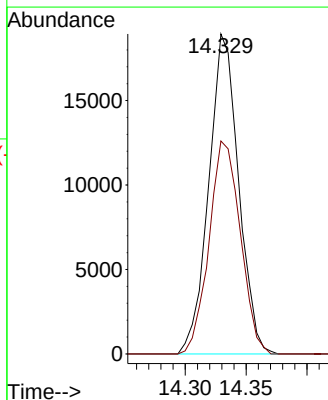
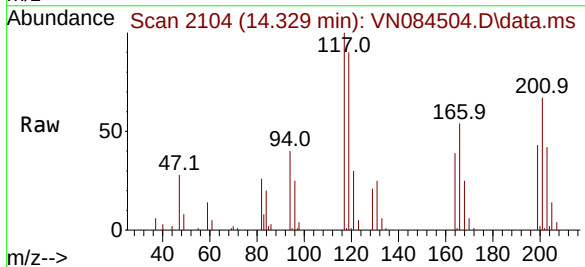
Manual Integrations
APPROVED

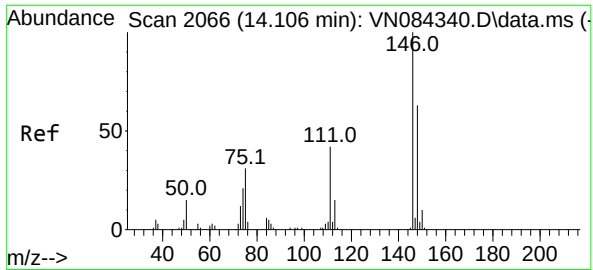
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#86
Hexachloroethane
Concen: 18.728 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion:117 Resp: 32190
Ion Ratio Lower Upper
117 100
201 69.8 33.9 101.6





#87

1,2-Dichlorobenzene

Concen: 19.962 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

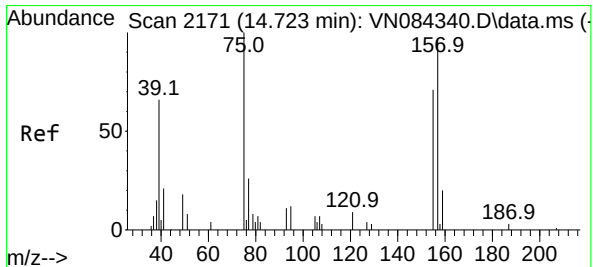
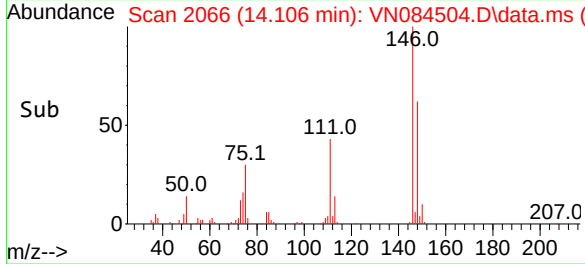
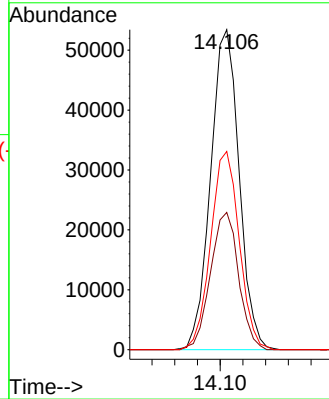
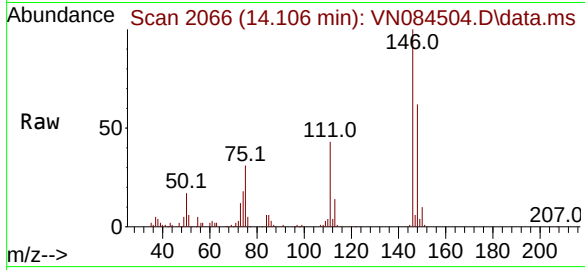
VSTDCCC020

Tgt Ion:	146	Resp:	9314
Ion Ratio	Lower	Upper	
146	100		
111	42.4	21.9	65.5
148	62.1	31.1	93.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.430 ug/l

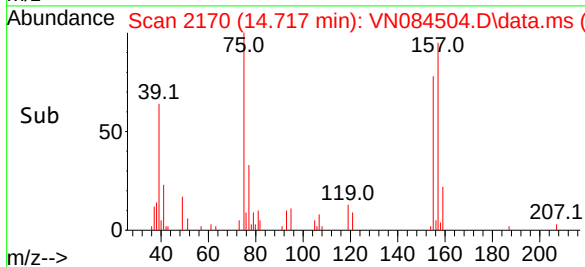
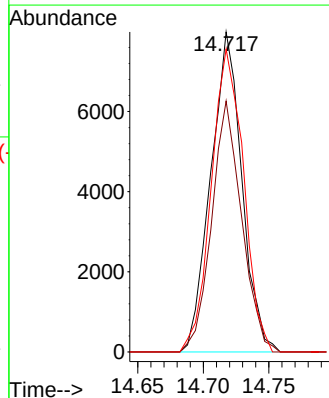
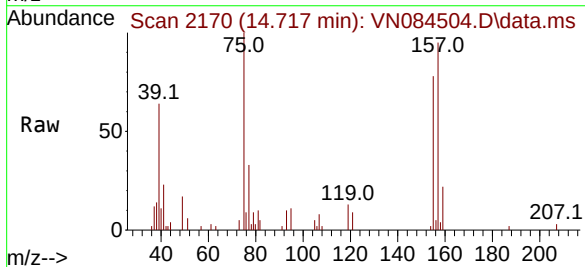
RT: 14.717 min Scan# 2170

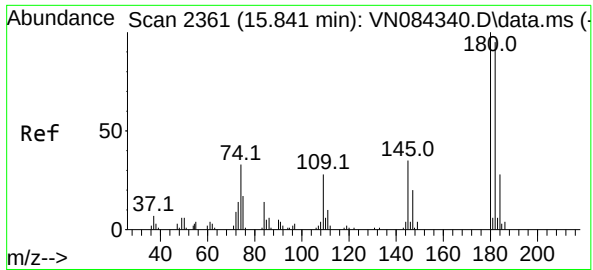
Delta R.T. -0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Tgt Ion:	75	Resp:	13174
Ion Ratio	Lower	Upper	
75	100		
155	75.5	61.8	92.8
157	97.9	77.4	116.0





#89

1,2,4-Trichlorobenzene

Concen: 18.348 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

Instrument :

MSVOA_N

ClientSampleId :

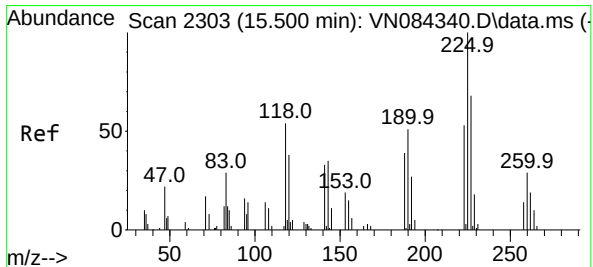
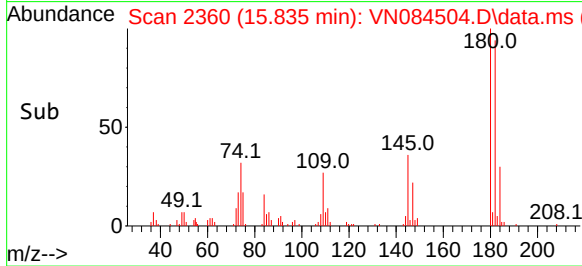
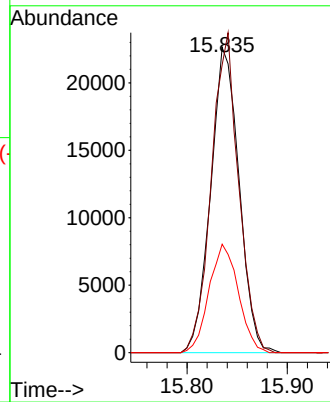
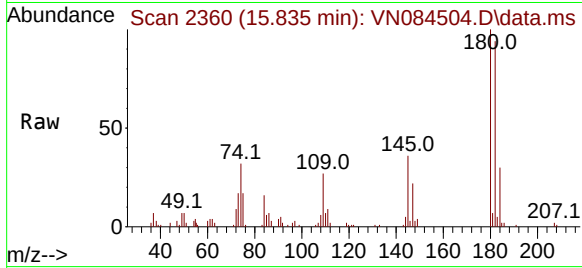
VSTDCCC020

Tgt Ion:180	Resp:	44510	
Ion Ratio	Lower	Upper	
180	100		
182	100.3	77.8	116.6
145	36.6	28.9	43.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#90

Hexachlorobutadiene

Concen: 19.749 ug/l

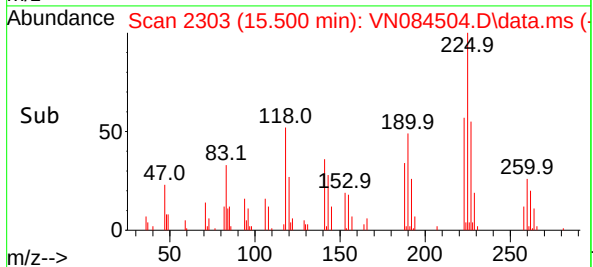
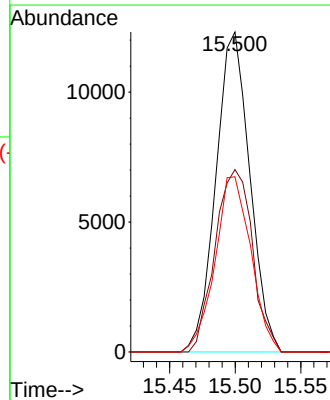
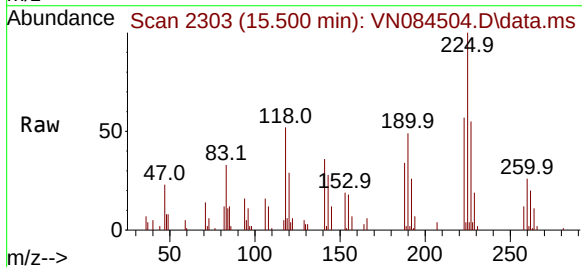
RT: 15.500 min Scan# 2303

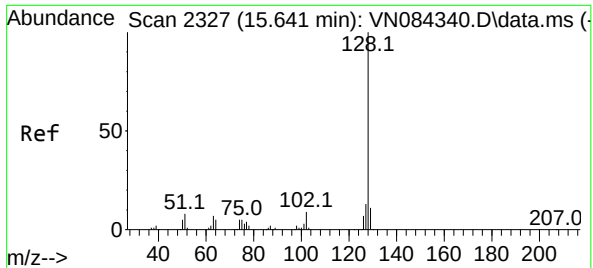
Delta R.T. 0.000 min

Lab File: VN084504.D

Acq: 25 Oct 2024 10:04

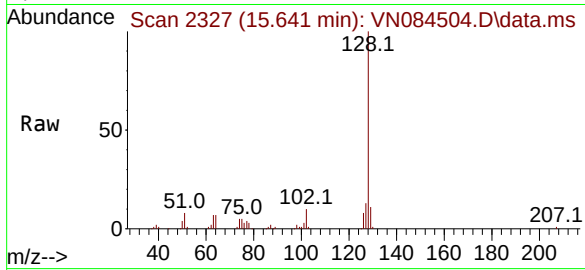
Tgt Ion:225	Resp:	22167	
Ion Ratio	Lower	Upper	
225	100		
223	62.7	0.0	124.0
227	57.8	0.0	130.8





#91
Naphthalene
Concen: 17.015 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

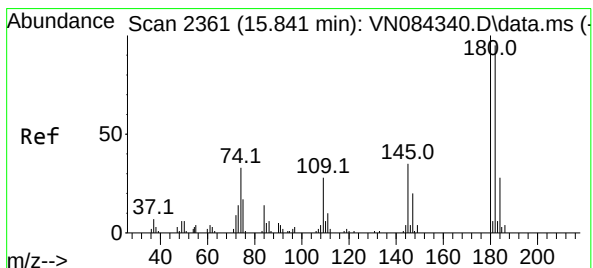
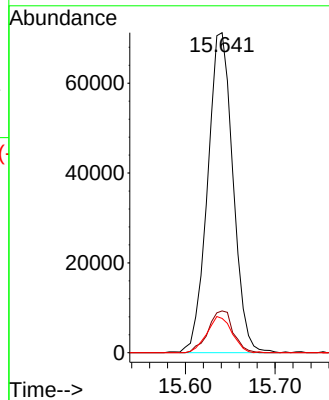
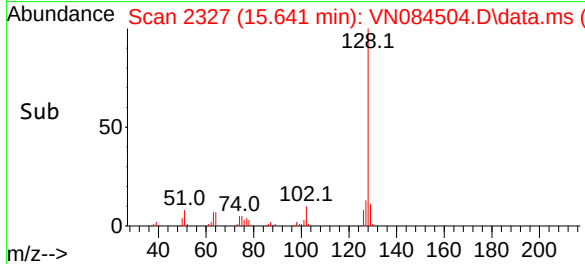
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:128 Resp: 13988
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 11.1 8.8 13.2

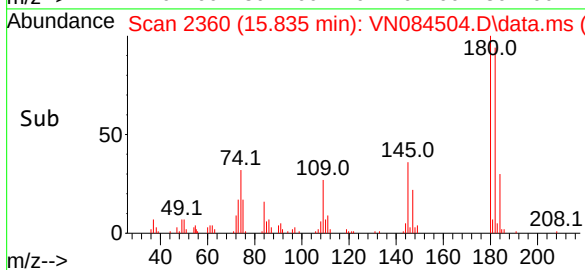
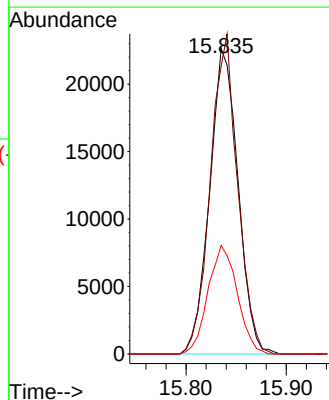
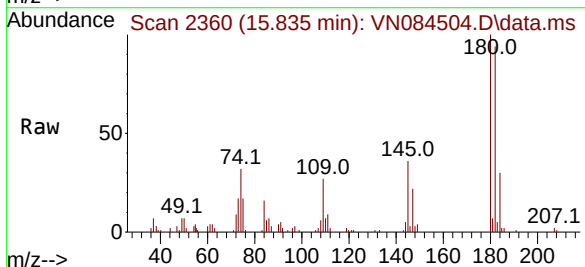
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#92
1,2,3-Trichlorobenzene
Concen: 18.348 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN084504.D
Acq: 25 Oct 2024 10:04

Tgt Ion:180 Resp: 44516
Ion Ratio Lower Upper
180 100
182 100.3 0.0 194.4
145 36.6 0.0 72.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084504.D
 Acq On : 25 Oct 2024 10:04
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Oct 26 05:24:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 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	102	0.00
2 M	Dichlorodifluoromethane	1.832	1.676	8.5	89	0.00
3 M	Chloromethane	2.084	1.831	12.1	87	0.00
4 M	Vinyl Chloride	2.044	1.874	8.3	91	0.00
5 M	Bromomethane	1.354	1.189	12.2	86	0.00
6 M	Chloroethane	1.340	1.274	4.9	93	0.00
7 M	Trichlorofluoromethane	3.329	3.123	6.2	94	0.00
8 T	Diethyl Ether	1.224	1.151	6.0	96	0.00
9	1,1,2-Trichlorotrifluoroeth	1.872	1.862	0.5	101	0.01
10 M	1,1-Dichloroethene	1.868	1.715	8.2	96	0.00
11	Methyl Iodide	2.455	2.262	7.9	94	0.00
12	Methyl Acetate	2.339	2.483	-6.2	111	0.00
13 M	Acrolein	0.434	0.431	0.7	110	0.00
14 M	Acrylonitrile	1.051	0.953	9.3	91	0.00
15 M	Acetone	0.300	0.368	-22.7	132	0.00
16 M	Carbon Disulfide	5.562	4.632	16.7	83	0.00
17	Allyl chloride	3.028	2.791	7.8	92	0.00
18 M	Methylene Chloride	2.104	1.939	7.8	92	0.00
19 M	trans-1,2-Dichloroethene	1.977	1.797	9.1	91	0.00
20 T	Diisopropyl ether	6.510	6.189	4.9	95	0.00
21 M	1,1-Dichloroethane	3.736	3.621	3.1	97	0.00
22 M	cis-1,2-Dichloroethene	2.300	2.240	2.6	97	0.00
23 M	tert-Butyl Alcohol	0.403	0.364	9.7	93	0.00
24 M	Methyl tert-Butyl Ether	6.242	5.963	4.5	97	-0.01
25 M	Chloroform	3.783	3.824	-1.1	100	0.00
26	Cyclohexane	3.124	2.756	11.8	86	0.00
27 s	1,2-Dichloroethane-d4	2.415	2.412	0.1	100	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
29	1,1-Dichloropropene	0.492	0.447	9.1	94	0.00
30 M	2-Butanone	0.262	0.252	3.8	102	0.00
31	2,2-Dichloropropane	0.579	0.569	1.7	102	0.00
32 M	1,1,1-Trichloroethane	0.629	0.603	4.1	96	0.00
33 M	Carbon Tetrachloride	0.545	0.504	7.5	96	0.00
34 M	Benzene	1.542	1.442	6.5	96	0.00
35	Methacrylonitrile	0.280	0.255	8.9	96	0.00
36 M	1,2-Dichloroethane	0.514	0.488	5.1	97	0.00
37 M	Trichloroethene	0.355	0.335	5.6	95	0.00
38	Methylcyclohexane	0.541	0.486	10.2	97	0.00
39 M	1,2-Dichloropropane	0.376	0.353	6.1	95	0.00
40	Dibromomethane	0.263	0.248	5.7	98	0.00
41 M	Bromodichloromethane	0.558	0.524	6.1	97	0.00
42 M	Vinyl Acetate	0.912	0.805	11.7	94	0.00
43	Ethyl Acetate	0.517	0.440	14.9	89	0.00
44	Isopropyl Acetate	0.846	0.973	-15.0	120	0.00
45 T	1,4-Dioxane	0.008	0.007	12.5	97	0.00
46	Methyl methacrylate	0.409	0.351	14.2	90	0.00
47	n-amyl Acetate	0.753	0.668	11.3	94	0.00
48 M	t-1,3-Dichloropropene	0.576	0.532	7.6	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084504.D
 Acq On : 25 Oct 2024 10:04
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Oct 26 05:24:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 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	0.565	6.5	95	0.00
50 M	1,1,2-Trichloroethane	0.353	0.335	5.1	98	0.00
51	Ethyl methacrylate	0.583	0.530	9.1	96	0.00
52	1,3-Dichloropropane	0.617	0.579	6.2	96	0.00
53 M	Dibromochloromethane	0.417	0.392	6.0	98	0.00
54 M	1,2-Dibromoethane	0.364	0.334	8.2	93	0.00
55 M	2-Chloroethyl vinyl ether	0.265	0.234	11.7	97	0.00
56 M	Bromoform	0.277	0.257	7.2	101	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
58 M	4-Methyl-2-Pentanone	0.559	0.530	5.2	95	0.00
59 M	2-Hexanone	0.415	0.406	2.2	100	0.00
60 S	4-Bromofluorobenzene	0.495	0.511	-3.2	104	0.00
61 M	Tetrachloroethene	0.339	0.348	-2.7	102	0.00
62 M	Toluene	1.756	1.683	4.2	96	0.00
63 S	Toluene-d8	1.390	1.390	0.0	100	0.00
64 M	Chlorobenzene	1.093	1.036	5.2	95	0.00
65	1,1,1,2-Tetrachloroethane	0.380	0.376	1.1	98	0.00
66 M	Ethyl Benzene	1.908	1.839	3.6	97	0.00
67 M	m/p-Xylenes	0.724	0.700	3.3	97	0.00
68 M	o-Xylene	0.698	0.660	5.4	95	0.00
69 M	Styrene	1.198	1.135	5.3	96	0.00
70	Isopropylbenzene	1.781	1.702	4.4	95	0.00
71 M	1,1,2,2-Tetrachloroethane	0.551	0.534	3.1	97	0.00
72	1,2,3-Trichloropropane	0.472	0.431	8.7	93	0.00
73	Bromobenzene	0.431	0.413	4.2	97	0.00
74	n-propylbenzene	2.123	2.073	2.4	98	0.00
75	2-Chlorotoluene	1.319	1.281	2.9	97	0.00
76	1,3,5-Trimethylbenzene	1.500	1.481	1.3	100	0.00
77	t-1,4-Dichloro-2-butene	0.202	0.187	7.4	100	0.00
78	4-Chlorotoluene	1.341	1.299	3.1	98	0.00
79	tert-butylbenzene	1.279	1.245	2.7	99	0.00
80	1,2,4-Trimethylbenzene	1.522	1.452	4.6	97	0.00
81	sec-Butylbenzene	1.762	1.726	2.0	99	0.00
82	p-Isopropyltoluene	1.483	1.429	3.6	99	0.00
83 M	1,3-Dichlorobenzene	0.802	0.774	3.5	98	0.00
84 M	1,4-Dichlorobenzene	0.796	0.772	3.0	102	0.00
85	n-Butylbenzene	1.284	1.218	5.1	102	0.00
86 T	Hexachloroethane	0.286	0.267	6.6	96	0.00
87 M	1,2-Dichlorobenzene	0.775	0.774	0.1	102	0.00
88	1,2-Dibromo-3-Chloropropane	0.113	0.109	3.5	100	0.00
89	1,2,4-Trichlorobenzene	0.403	0.370	8.2	97	0.00
90	Hexachlorobutadiene	0.187	0.184	1.6	106	0.00
91 M	Naphthalene	1.366	1.162	14.9	91	0.00
92	1,2,3-Trichlorobenzene	0.403	0.370	8.2	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084504.D
 Acq On : 25 Oct 2024 10:04
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Oct 26 05:24:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 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	102	0.00
2 M	Dichlorodifluoromethane	20.000	18.295	8.5	89	0.00
3 M	Chloromethane	20.000	17.572	12.1	87	0.00
4 M	Vinyl Chloride	20.000	18.338	8.3	91	0.00
5 M	Bromomethane	20.000	17.561	12.2	86	0.00
6 M	Chloroethane	20.000	19.017	4.9	93	0.00
7 M	Trichlorofluoromethane	20.000	18.762	6.2	94	0.00
8 T	Diethyl Ether	20.000	18.804	6.0	96	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	19.897	0.5	101	0.01
10 M	1,1-Dichloroethene	20.000	18.358	8.2	96	0.00
11	Methyl Iodide	20.000	18.427	7.9	94	0.00
12	Methyl Acetate	20.000	21.239	-6.2	111	0.00
13 M	Acrolein	100.000	99.121	0.9	110	0.00
14 M	Acrylonitrile	100.000	90.663	9.3	91	0.00
15 M	Acetone	100.000	122.505	-22.5	132	0.00
16 M	Carbon Disulfide	20.000	16.656	16.7	83	0.00
17	Allyl chloride	20.000	18.433	7.8	92	0.00
18 M	Methylene Chloride	20.000	18.429	7.9	92	0.00
19 M	trans-1,2-Dichloroethene	20.000	18.179	9.1	91	0.00
20 T	Diisopropyl ether	20.000	19.011	4.9	95	0.00
21 M	1,1-Dichloroethane	20.000	19.388	3.1	97	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.473	2.6	97	0.00
23 M	tert-Butyl Alcohol	100.000	90.279	9.7	93	0.00
24 M	Methyl tert-Butyl Ether	20.000	19.105	4.5	97	-0.01
25 M	Chloroform	20.000	20.215	-1.1	100	0.00
26	Cyclohexane	20.000	17.645	11.8	86	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.960	0.1	100	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	104	0.00
29	1,1-Dichloropropene	20.000	18.137	9.3	94	0.00
30 M	2-Butanone	100.000	96.222	3.8	102	0.00
31	2,2-Dichloropropane	20.000	19.650	1.8	102	0.00
32 M	1,1,1-Trichloroethane	20.000	19.158	4.2	96	0.00
33 M	Carbon Tetrachloride	20.000	18.476	7.6	96	0.00
34 M	Benzene	20.000	18.712	6.4	96	0.00
35	Methacrylonitrile	20.000	18.205	9.0	96	0.00
36 M	1,2-Dichloroethane	20.000	18.977	5.1	97	0.00
37 M	Trichloroethene	20.000	18.875	5.6	95	0.00
38	Methylcyclohexane	20.000	17.975	10.1	97	0.00
39 M	1,2-Dichloropropane	20.000	18.758	6.2	95	0.00
40	Dibromomethane	20.000	18.841	5.8	98	0.00
41 M	Bromodichloromethane	20.000	18.785	6.1	97	0.00
42 M	Vinyl Acetate	100.000	88.329	11.7	94	0.00
43	Ethyl Acetate	20.000	17.008	15.0	89	0.00
44	Isopropyl Acetate	20.000	22.980	-14.9	120	0.00
45 T	1,4-Dioxane	400.000	352.143	12.0	97	0.00
46	Methyl methacrylate	20.000	17.177	14.1	90	0.00
47	n-amyl Acetate	20.000	17.750	11.3	94	0.00
48 M	t-1,3-Dichloropropene	20.000	18.475	7.6	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084504.D
 Acq On : 25 Oct 2024 10:04
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Oct 26 05:24:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 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	18.697	6.5	95	0.00
50 M	1,1,2-Trichloroethane	20.000	18.979	5.1	98	0.00
51	Ethyl methacrylate	20.000	18.181	9.1	96	0.00
52	1,3-Dichloropropane	20.000	18.738	6.3	96	0.00
53 M	Dibromochloromethane	20.000	18.817	5.9	98	0.00
54 M	1,2-Dibromoethane	20.000	18.368	8.2	93	0.00
55 M	2-Chloroethyl vinyl ether	100.000	88.623	11.4	97	0.00
56 M	Bromoform	20.000	18.609	7.0	101	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	100	0.00
58 M	4-Methyl-2-Pentanone	100.000	94.836	5.2	95	0.00
59 M	2-Hexanone	100.000	97.858	2.1	100	0.00
60 S	4-Bromofluorobenzene	30.000	30.944	-3.1	104	0.00
61 M	Tetrachloroethene	20.000	20.529	-2.6	102	0.00
62 M	Toluene	20.000	19.171	4.1	96	0.00
63 S	Toluene-d8	30.000	30.014	-0.0	100	0.00
64 M	Chlorobenzene	20.000	18.968	5.2	95	0.00
65	1,1,1,2-Tetrachloroethane	20.000	19.810	1.0	98	0.00
66 M	Ethyl Benzene	20.000	19.279	3.6	97	0.00
67 M	m/p-Xylenes	40.000	38.666	3.3	97	0.00
68 M	o-Xylene	20.000	18.914	5.4	95	0.00
69 M	Styrene	20.000	18.946	5.3	96	0.00
70	Isopropylbenzene	20.000	19.115	4.4	95	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	19.381	3.1	97	0.00
72	1,2,3-Trichloropropane	20.000	18.267	8.7	93	0.00
73	Bromobenzene	20.000	19.131	4.3	97	0.00
74	n-propylbenzene	20.000	19.531	2.3	98	0.00
75	2-Chlorotoluene	20.000	19.418	2.9	97	0.00
76	1,3,5-Trimethylbenzene	20.000	19.747	1.3	100	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.550	7.2	100	0.00
78	4-Chlorotoluene	20.000	19.368	3.2	98	0.00
79	tert-butylbenzene	20.000	19.464	2.7	99	0.00
80	1,2,4-Trimethylbenzene	20.000	19.081	4.6	97	0.00
81	sec-Butylbenzene	20.000	19.600	2.0	99	0.00
82	p-Isopropyltoluene	20.000	19.272	3.6	99	0.00
83 M	1,3-Dichlorobenzene	20.000	19.307	3.5	98	0.00
84 M	1,4-Dichlorobenzene	20.000	19.397	3.0	102	0.00
85	n-Butylbenzene	20.000	18.976	5.1	102	0.00
86 T	Hexachloroethane	20.000	18.728	6.4	96	0.00
87 M	1,2-Dichlorobenzene	20.000	19.962	0.2	102	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	19.430	2.9	100	0.00
89	1,2,4-Trichlorobenzene	20.000	18.348	8.3	97	0.00
90	Hexachlorobutadiene	20.000	19.749	1.3	106	0.00
91 M	Naphthalene	20.000	17.015	14.9	91	0.00
92	1,2,3-Trichlorobenzene	20.000	18.348	8.3	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 19:13

Lab File ID: VN084526.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.591	0.433		-26.73	50
Chloromethane	0.675	0.530	0.1	-21.48	50
Vinyl Chloride	0.654	0.549		-16.06	50
Bromomethane	0.431	0.340		-21.11	50
Chloroethane	0.468	0.372		-20.51	50
Trichlorofluoromethane	1.019	0.971		-4.71	50
1,1,2-Trichlorotrifluoroethane	0.584	0.564		-3.42	50
1,1-Dichloroethene	0.563	0.525		-6.75	50
Acrolein	0.140	0.125		-10.71	50
Acrylonitrile	0.309	0.306		-0.97	50
Acetone	0.318	0.256		-19.5	50
Carbon Disulfide	1.782	1.370		-23.12	50
Methyl tert-butyl Ether	1.900	1.913		0.68	50
Methyl Acetate	0.694	0.689		-0.72	50
Methylene Chloride	0.647	0.638		-1.39	50
trans-1,2-Dichloroethene	0.590	0.563		-4.58	50
1,1-Dichloroethane	1.131	1.153	0.1	1.95	50
Cyclohexane	1.098	0.925		-15.76	50
2-Butanone	0.434	0.401		-7.6	50
Carbon Tetrachloride	0.525	0.531		1.14	50
2,2-Dichloropropane	1.020	0.919		-9.9	50
cis-1,2-Dichloroethene	0.713	0.727		1.96	50
Chloroform	1.175	1.223		4.09	50
1,1,1-Trichloroethane	1.055	1.069		1.33	50
Methylcyclohexane	0.533	0.498		-6.57	50
1,1-Dichloropropene	0.479	0.477		-0.42	50
Benzene	1.492	1.515		1.54	50
1,2-Dichloroethane	0.506	0.517		2.17	50
Trichloroethene	0.348	0.352		1.15	50
1,2-Dichloropropane	0.353	0.380		7.65	50
Dibromomethane	0.238	0.264		10.92	50
Bromodichloromethane	0.529	0.565		6.8	50
4-Methyl-2-Pentanone	0.468	0.495		5.77	50
Methyl methacrylate	0.383	0.384		0.26	50
Toluene	0.910	0.953		4.72	50
t-1,3-Dichloropropene	0.539	0.562		4.27	50
cis-1,3-Dichloropropene	0.580	0.600		3.45	50
1,1,2-Trichloroethane	0.326	0.358		9.82	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 19:13

Lab File ID: VN084526.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
1,3-Dichloropropane	0.583	0.627		7.55	50
2-Hexanone	0.349	0.364		4.3	50
Dibromochloromethane	0.385	0.433		12.47	50
1,2-Dibromoethane	0.339	0.360		6.2	50
Tetrachloroethene	0.348	0.348		0	50
Chlorobenzene	1.109	1.125	0.3	1.44	50
1,1,1,2-Tetrachloroethane	0.382	0.406		6.28	50
Hexachloroethane	0.620	0.552		-10.97	50
Ethyl Benzene	1.961	2.044		4.23	50
m/p-Xylenes	0.725	0.784		8.14	50
o-Xylene	0.686	0.752		9.62	50
Styrene	1.162	1.287		10.76	50
Bromoform	0.281	0.308	0.1	9.61	50
Isopropylbenzene	3.815	3.640		-4.59	50
1,1,2,2-Tetrachloroethane	1.147	1.101	0.3	-4.01	50
1,2,3-Trichloropropane	1.021	0.911		-10.77	50
Bromobenzene	0.920	0.868		-5.65	50
n-propylbenzene	4.421	4.361		-1.36	50
2-Chlorotoluene	2.821	2.662		-5.64	50
1,3,5-Trimethylbenzene	3.112	3.114		0.06	50
4-Chlorotoluene	2.840	2.697		-5.03	50
tert-Butylbenzene	2.766	2.626		-5.06	50
1,2,4-Trimethylbenzene	3.135	3.167		1.02	50
sec-Butylbenzene	3.691	3.640		-1.38	50
p-Isopropyltoluene	3.052	3.046		-0.2	50
1,3-Dichlorobenzene	1.727	1.625		-5.91	50
1,4-Dichlorobenzene	1.744	1.638		-6.08	50
n-Butylbenzene	2.768	2.590		-6.43	50
1,2-Dichlorobenzene	1.693	1.600		-5.49	50
1,2-Dibromo-3-Chloropropane	0.237	0.209		-11.81	50
1,2,4-Trichlorobenzene	0.834	0.760		-8.87	50
Hexachlorobutadiene	0.416	0.339		-18.51	50
Naphthalene	2.764	2.441		-11.69	50
1,2,3-Trichlorobenzene	0.835	0.755		-9.58	50
1,2-Dichloroethane-d4	0.741	0.736		-0.68	50
Dibromofluoromethane	0.330	0.344		4.24	50
Toluene-d8	1.213	1.245		2.64	50
4-Bromofluorobenzene	0.442	0.467		5.66	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 19:13

Lab File ID: VN084526.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	<u>RRF</u>	RRF050	MIN RRF	%D	MAX%D
Methyl Iodide	0.752	0.703		-6.52	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\VN102524\
 Data File : VN084526.D
 Acq On : 25 Oct 2024 19:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 25 23:38:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	166788	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	286652	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	260288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136706	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122767	49.644	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.280%		
35) Dibromofluoromethane	8.165	113	98679	52.217	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.440%		
50) Toluene-d8	10.565	98	356900	51.332	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.660%		
62) 4-Bromofluorobenzene	12.847	95	133768	52.811	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	105.620%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.130	85	72195	36.594	ug/l	94
3) Chloromethane	2.365	50	88344	39.218	ug/l	99
4) Vinyl Chloride	2.518	62	91591	41.975	ug/l	95
5) Bromomethane	2.948	94	56745	39.426	ug/l	99
6) Chloroethane	3.118	64	62116	39.749	ug/l	92
7) Trichlorofluoromethane	3.501	101	161924	47.655	ug/l	95
8) Diethyl Ether	3.965	74	59289	47.048	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	93993	48.278	ug/l	99
10) Methyl Iodide	4.589	142	117205	46.747	ug/l	95
11) Tert butyl alcohol	5.518	59	88149	216.174	ug/l	99
12) 1,1-Dichloroethene	4.342	96	87574	46.634	ug/l	95
13) Acrolein	4.183	56	104358	222.928	ug/l	100
14) Allyl chloride	5.024	41	140102	42.957	ug/l	98
15) Acrylonitrile	5.718	53	255442	248.067	ug/l	99
16) Acetone	4.424	43	213314	200.799	ug/l	98
17) Carbon Disulfide	4.712	76	228560	38.442	ug/l	99
18) Methyl Acetate	5.024	43	114869	49.611	ug/l	99
19) Methyl tert-butyl Ether	5.800	73	319035	50.335	ug/l	96
20) Methylene Chloride	5.277	84	106437	49.288	ug/l	88
21) trans-1,2-Dichloroethene	5.789	96	93864	47.709	ug/l	98
22) Diisopropyl ether	6.671	45	344942	51.132	ug/l	99
23) Vinyl Acetate	6.600	43	1230781	245.982	ug/l	100
24) 1,1-Dichloroethane	6.571	63	192358	50.989	ug/l	100
25) 2-Butanone	7.483	43	334778	231.376	ug/l	99
26) 2,2-Dichloropropane	7.488	77	153197	45.038	ug/l	97
27) cis-1,2-Dichloroethene	7.488	96	121267	51.007	ug/l	96
28) Bromochloromethane	7.818	49	83192	49.424	ug/l	95
29) Tetrahydrofuran	7.841	42	222275	248.934	ug/l	99
30) Chloroform	7.965	83	203952	52.045	ug/l	97
31) Cyclohexane	8.253	56	154232	42.106	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	178226	50.640	ug/l	100
36) 1,1-Dichloropropene	8.371	75	136786	49.831	ug/l	99
37) Ethyl Acetate	7.559	43	140540	49.906	ug/l	99
38) Carbon Tetrachloride	8.359	117	152192	50.544	ug/l	97
39) Methylcyclohexane	9.600	83	142779	46.735	ug/l	98
40) Benzene	8.606	78	434246	50.775	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084526.D
 Acq On : 25 Oct 2024 19:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 25 23:38:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	78193	51.145	ug/l	97
42) 1,2-Dichloroethane	8.671	62	148069	51.069	ug/l	99
43) Isopropyl Acetate	8.688	43	233167	42.271	ug/l	97
44) Trichloroethene	9.347	130	100781	50.453	ug/l	97
45) 1,2-Dichloropropane	9.624	63	109028	53.889	ug/l	96
46) Dibromomethane	9.706	93	75789	55.510	ug/l	99
47) Bromodichloromethane	9.888	83	161891	53.371	ug/l #	99
48) Methyl methacrylate	9.682	41	109954	50.076	ug/l	97
49) 1,4-Dioxane	9.694	88	39891	986.815	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	709816	264.775	ug/l	99
52) Toluene	10.629	92	273057	52.357	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	161025	52.078	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	171984	51.711	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	102513	54.831	ug/l	96
56) Ethyl methacrylate	10.871	69	165239	53.712	ug/l	97
57) 1,3-Dichloropropane	11.165	76	179630	53.769	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	370569	259.663	ug/l	98
59) 2-Hexanone	11.194	43	521492	260.266	ug/l	98
60) Dibromochloromethane	11.359	129	124112	56.184	ug/l	99
61) 1,2-Dibromoethane	11.465	107	103132	53.087	ug/l	99
64) Tetrachloroethene	11.100	164	90687	50.022	ug/l	97
65) Chlorobenzene	11.888	112	292777	50.731	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	105641	53.144	ug/l	98
67) Ethyl Benzene	11.959	91	532113	52.136	ug/l	99
68) m/p-Xylenes	12.071	106	408093	108.094	ug/l	98
69) o-Xylene	12.400	106	195654	54.776	ug/l	98
70) Styrene	12.412	104	334901	55.354	ug/l	99
71) Bromoform	12.576	173	80145	54.763	ug/l #	99
73) Isopropylbenzene	12.694	105	497663	47.706	ug/l	99
74) N-amyl acetate	12.494	43	214096	45.322	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	150561	47.998	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	124511m	44.613	ug/l	
77) Bromobenzene	12.976	156	118604	47.134	ug/l	97
78) n-propylbenzene	13.035	91	596232	49.330	ug/l	100
79) 2-Chlorotoluene	13.123	91	363962	47.192	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	425766	50.034	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	50296	43.206	ug/l	98
82) 4-Chlorotoluene	13.217	91	368750	47.496	ug/l	99
83) tert-Butylbenzene	13.435	119	359032	47.471	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	432987	50.510	ug/l	99
85) sec-Butylbenzene	13.612	105	497624	49.306	ug/l	100
86) p-Isopropyltoluene	13.729	119	416390	49.893	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	222126	47.055	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	223979	46.984	ug/l	99
89) n-Butylbenzene	14.053	91	354026	46.782	ug/l	100
90) Hexachloroethane	14.329	117	75508	44.573	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	218768	47.263	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28530	44.075	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	103896	45.570	ug/l	99
94) Hexachlorobutadiene	15.500	225	46312	40.733	ug/l	98
95) Naphthalene	15.641	128	333714	44.152	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	103160	45.202	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084526.D
Acq On : 25 Oct 2024 19:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 25 23:38:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

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

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

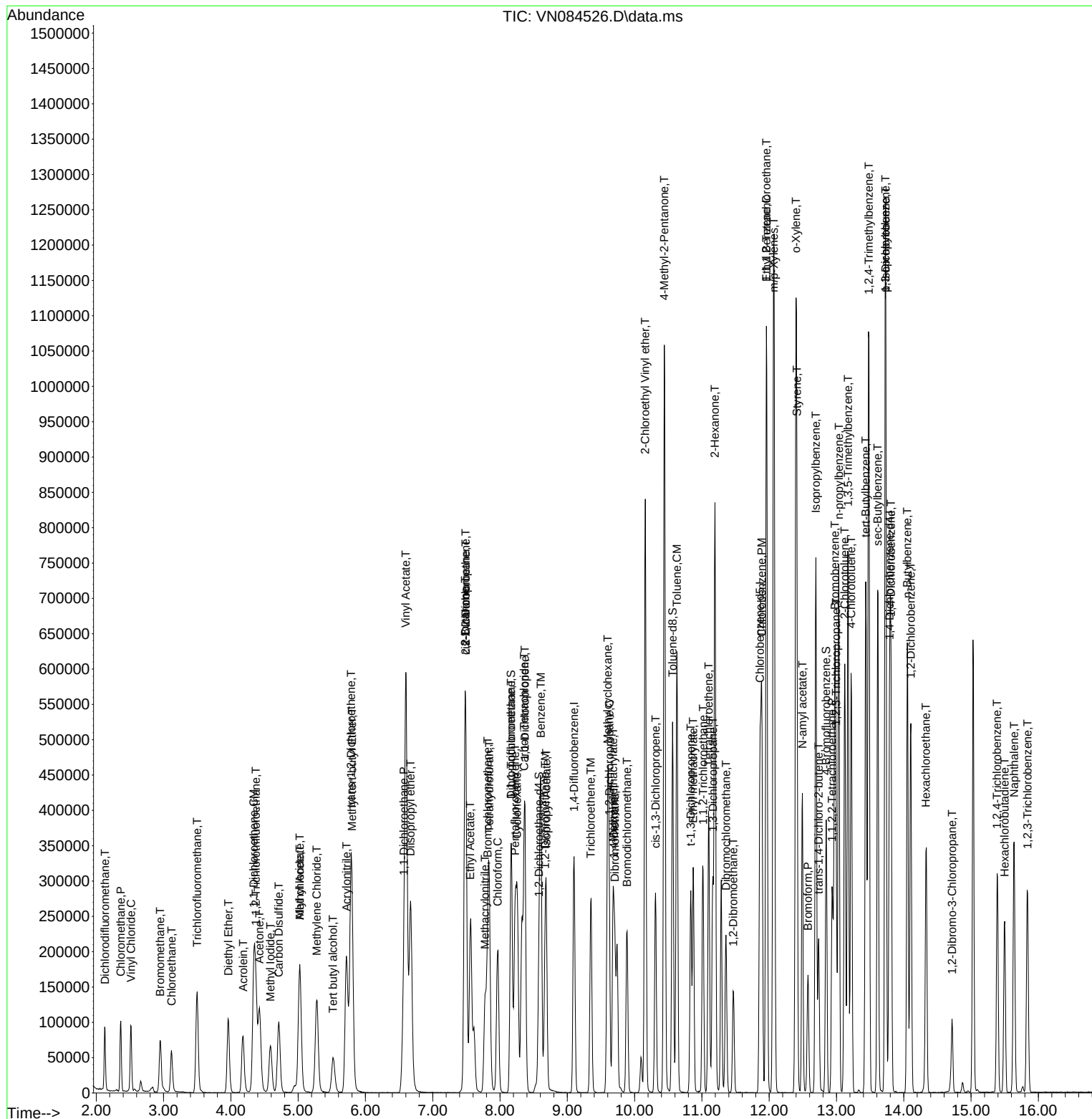
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 Data File : VN084526.D
 Acq On : 25 Oct 2024 19:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

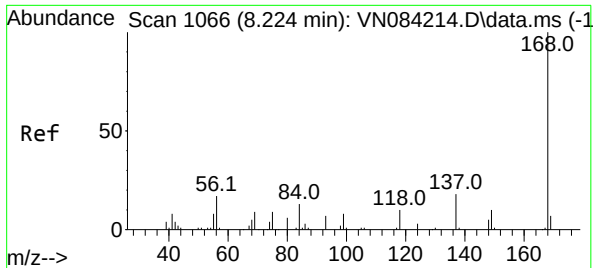
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024

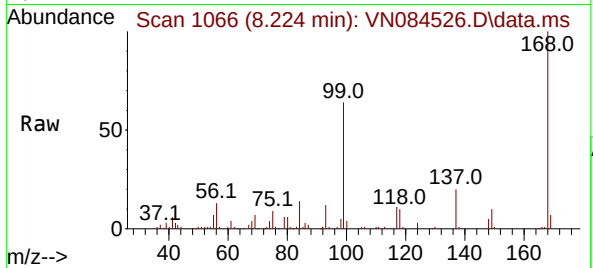
Quant Time: Oct 25 23:38:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

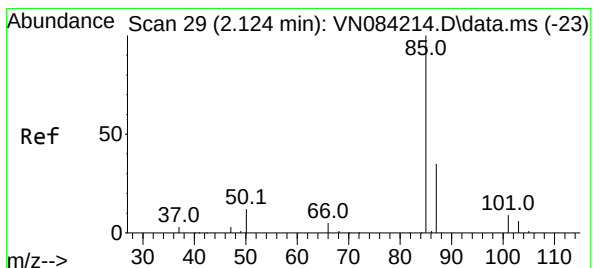
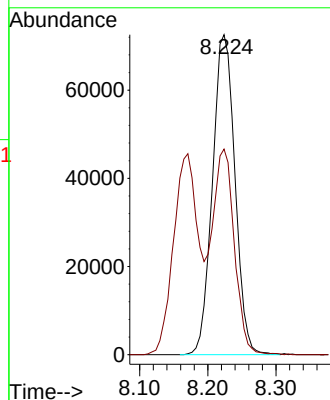
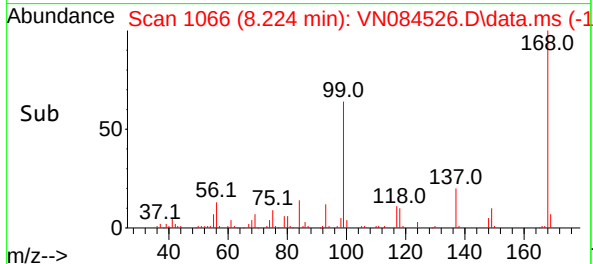
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:168 Resp: 166788
Ion Ratio Lower Upper
168 100
99 64.0 54.2 81.2

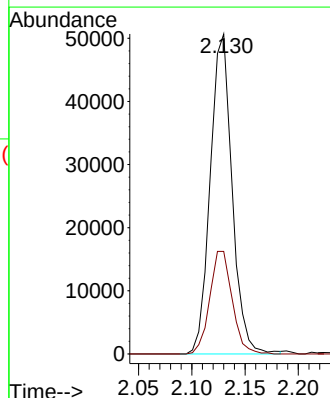
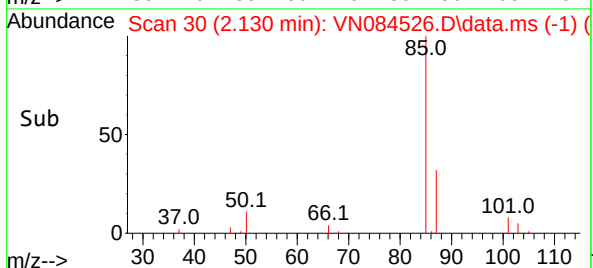
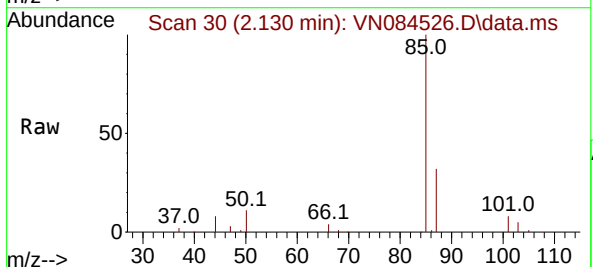
Manual Integrations
APPROVED

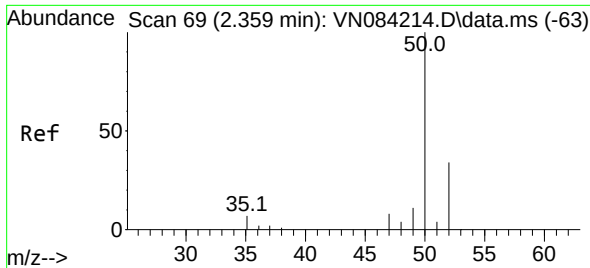
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#2
Dichlorodifluoromethane
Concen: 36.594 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 85 Resp: 72195
Ion Ratio Lower Upper
85 100
87 32.1 17.6 52.9





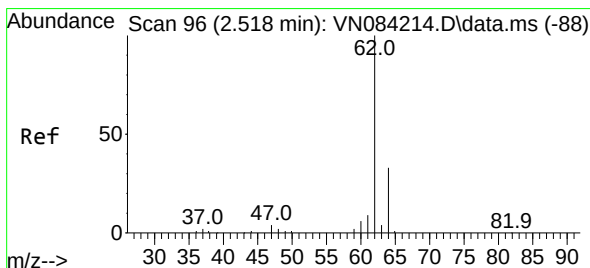
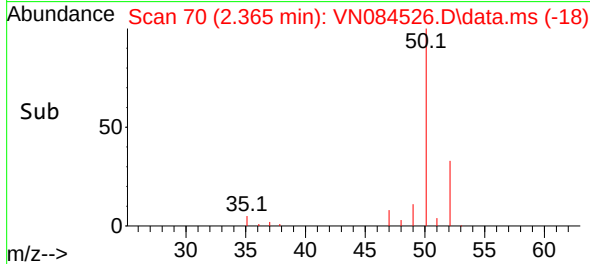
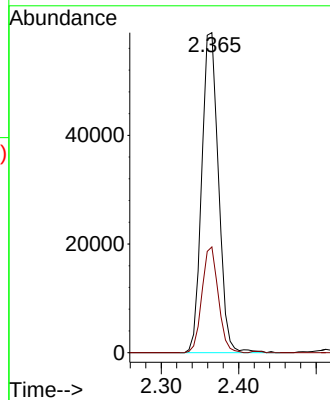
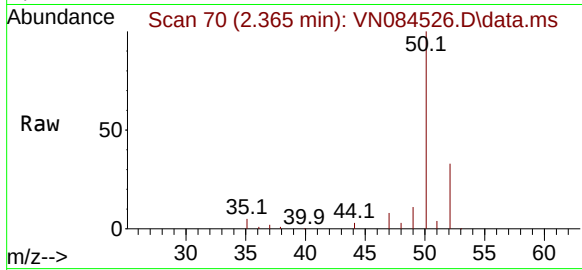
#3
Chloromethane
Concen: 39.218 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 88344
Ion Ratio Lower Upper
50 100
52 33.1 26.8 40.2

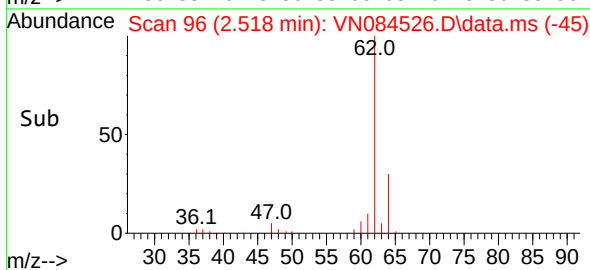
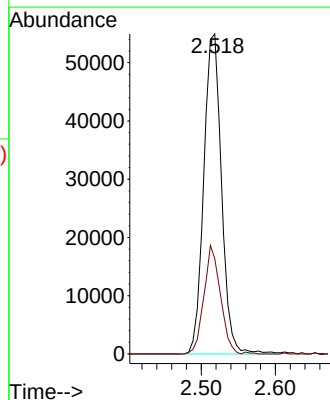
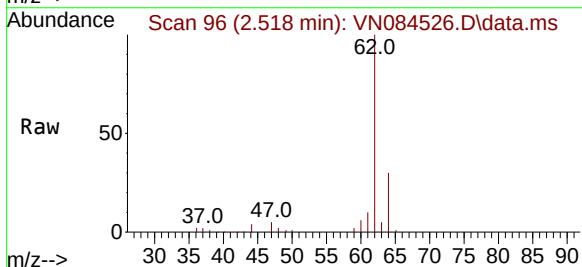
Manual Integrations
APPROVED

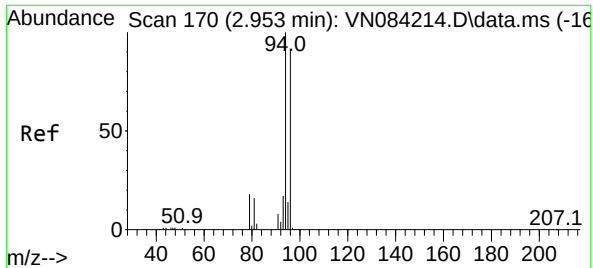
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#4
Vinyl Chloride
Concen: 41.975 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

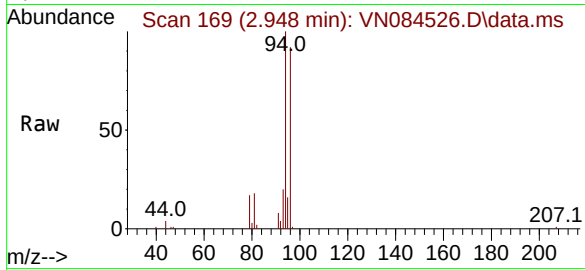
Tgt Ion: 62 Resp: 91591
Ion Ratio Lower Upper
62 100
64 29.8 26.2 39.4





#5
Bromomethane
Concen: 39.426 ug/l
RT: 2.948 min Scan# 170
Delta R.T. -0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

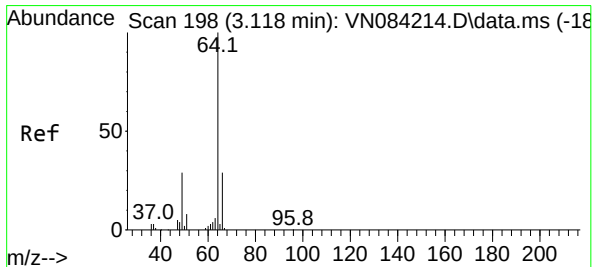
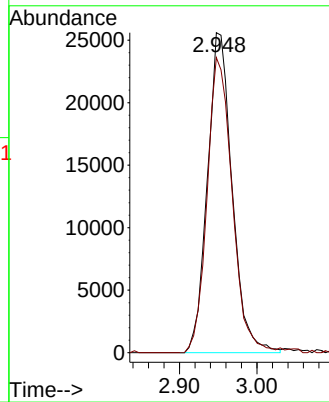
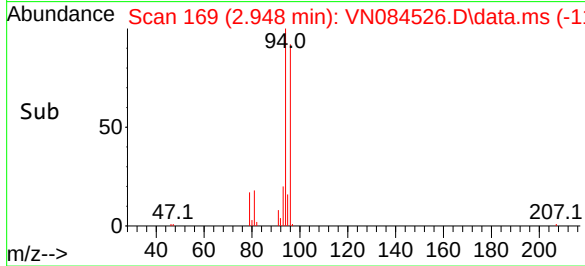
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 94 Resp: 56749
Ion Ratio Lower Upper
94 100
96 92.2 72.9 109.3

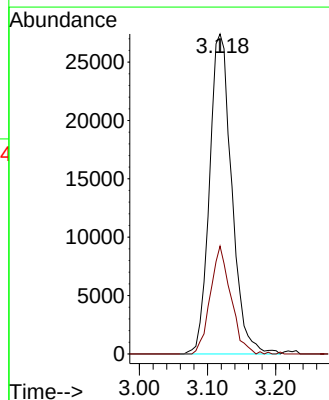
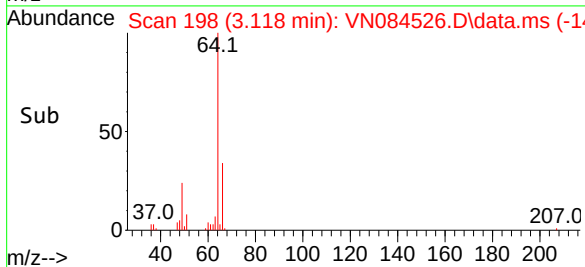
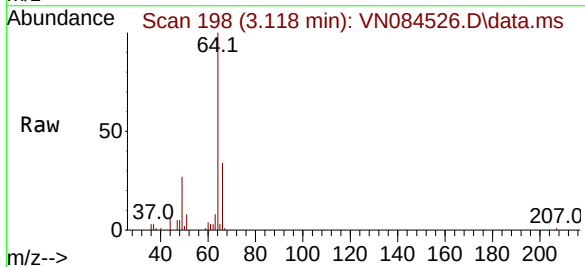
Manual Integrations
APPROVED

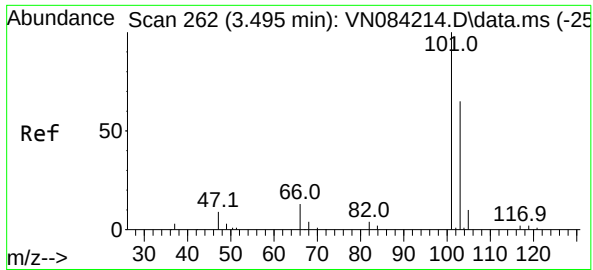
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#6
Chloroethane
Concen: 39.749 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

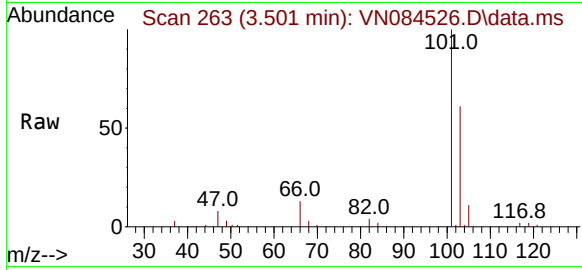
Tgt Ion: 64 Resp: 62116
Ion Ratio Lower Upper
64 100
66 33.7 23.5 35.3





#7
Trichlorofluoromethane
Concen: 47.655 ug/l
RT: 3.501 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

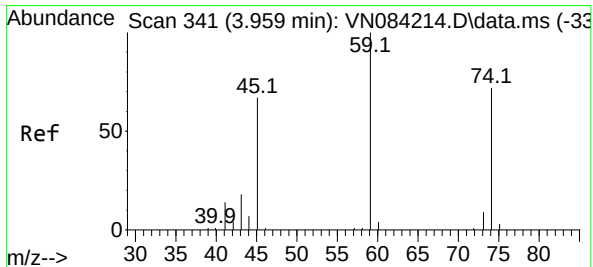
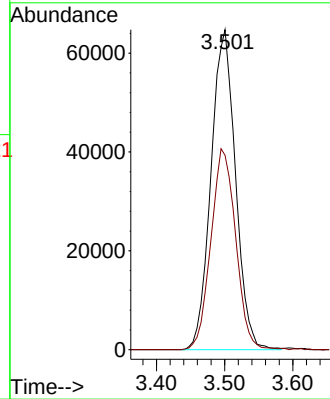
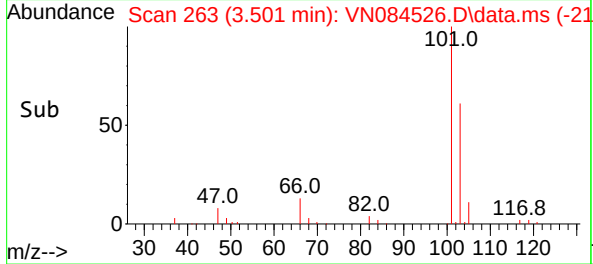
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:101 Resp: 161924
Ion Ratio Lower Upper
101 100
103 60.7 51.8 77.6

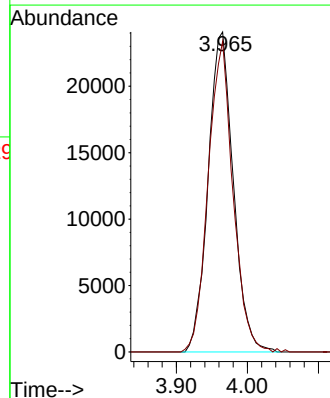
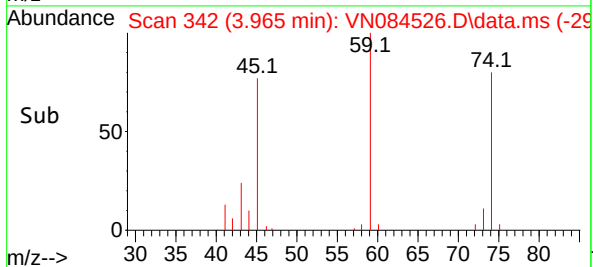
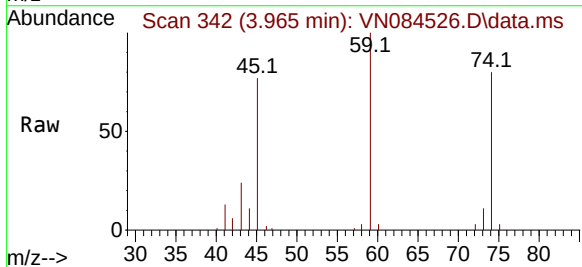
Manual Integrations
APPROVED

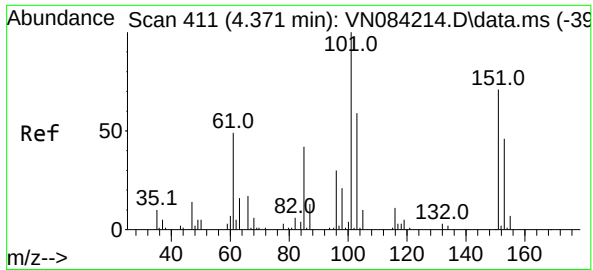
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#8
Diethyl Ether
Concen: 47.048 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 74 Resp: 59289
Ion Ratio Lower Upper
74 100
45 95.5 47.7 143.1





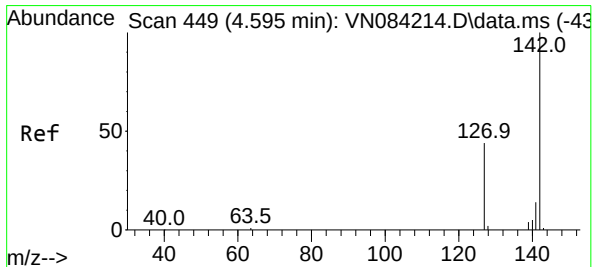
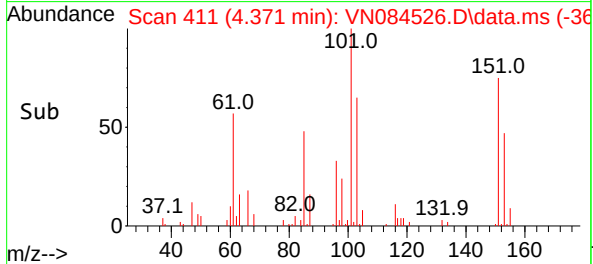
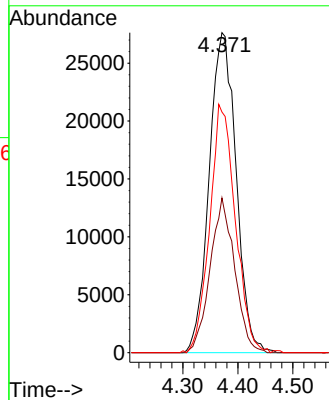
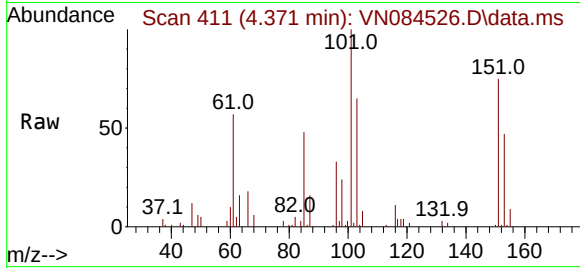
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.278 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 9399
Ion Ratio Lower Upper
101 100
85 44.1 36.2 54.4
151 74.1 59.3 88.9

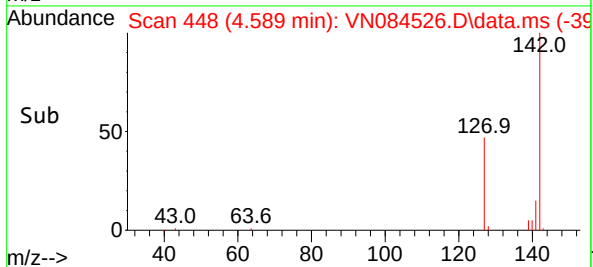
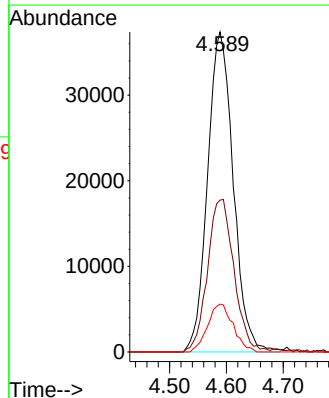
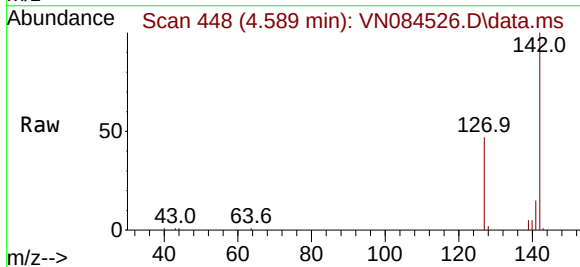
Manual Integrations
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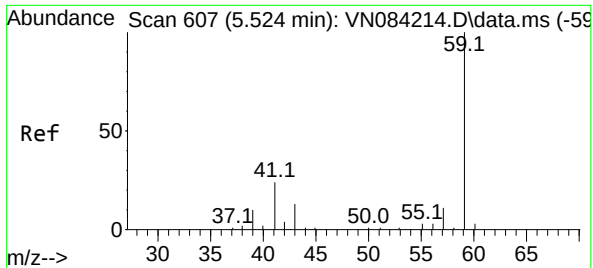
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#10
Methyl Iodide
Concen: 46.747 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion:142 Resp: 117205
Ion Ratio Lower Upper
142 100
127 47.5 35.3 52.9
141 14.9 11.0 16.6





#11

Tert butyl alcohol

Concen: 216.174 ug/l

RT: 5.518 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 59 Resp: 88149

Ion Ratio Lower Upper

59 100

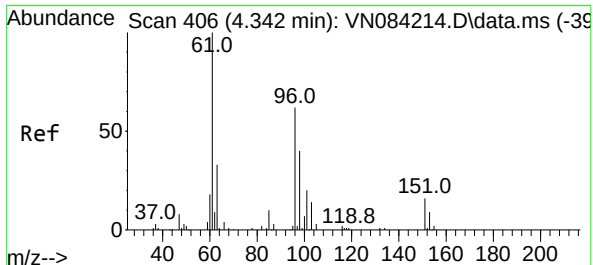
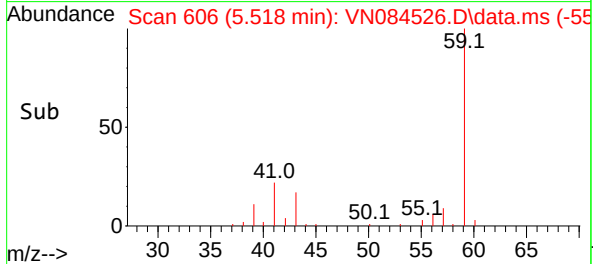
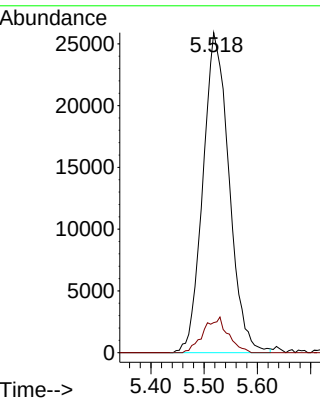
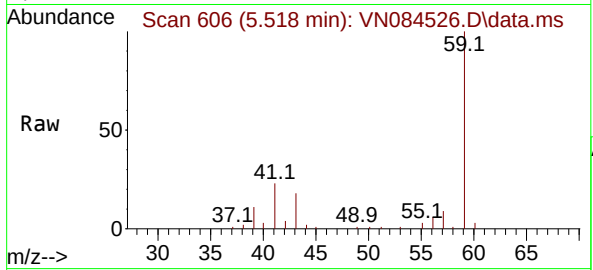
57 10.5 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#12

1,1-Dichloroethene

Concen: 46.634 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

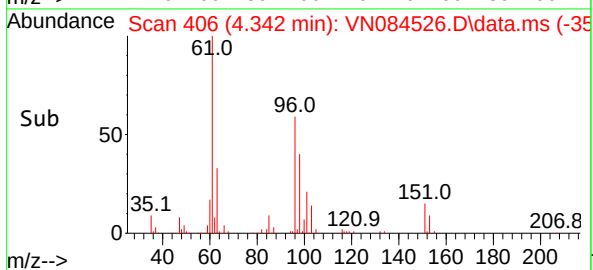
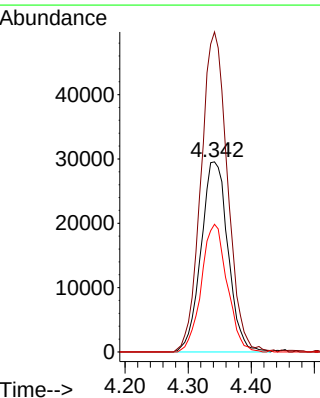
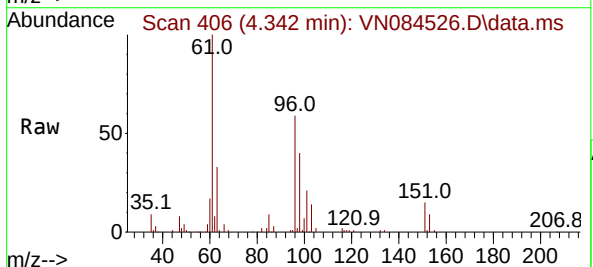
Tgt Ion: 96 Resp: 87574

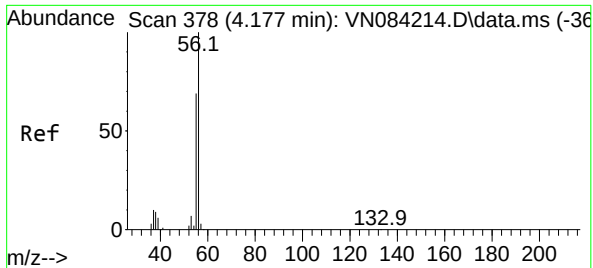
Ion Ratio Lower Upper

96 100

61 168.3 128.6 192.8

98 67.2 51.7 77.5





#13

Acrolein

Concen: 222.928 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 104358

Ion Ratio Lower Upper

56 100

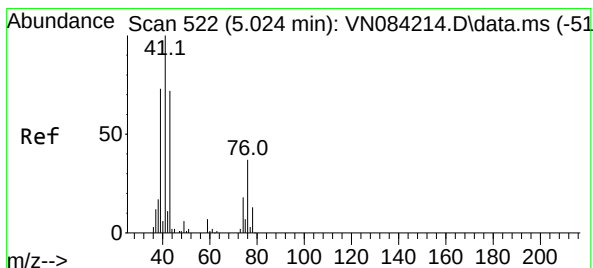
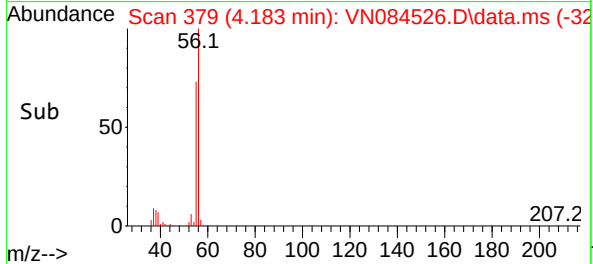
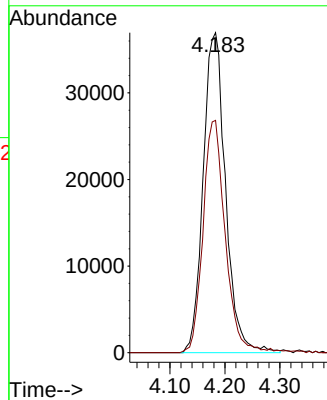
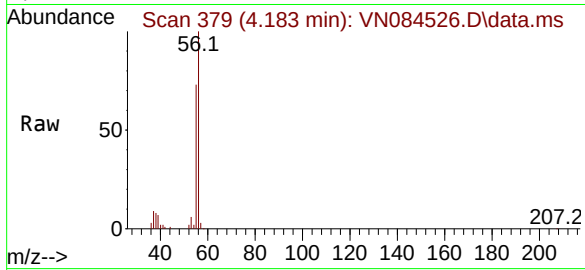
55 71.7 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#14

Allyl chloride

Concen: 42.957 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

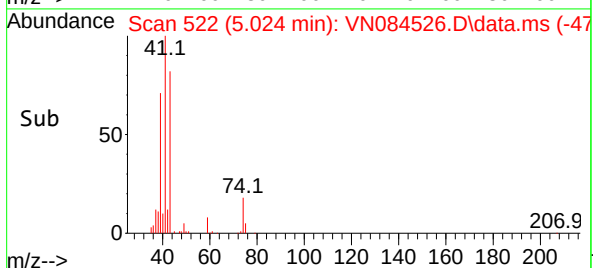
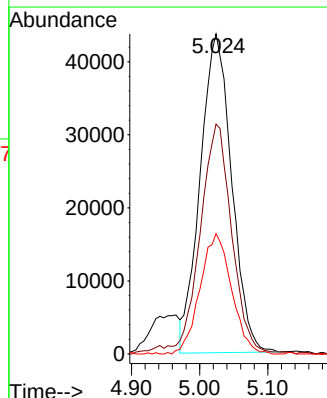
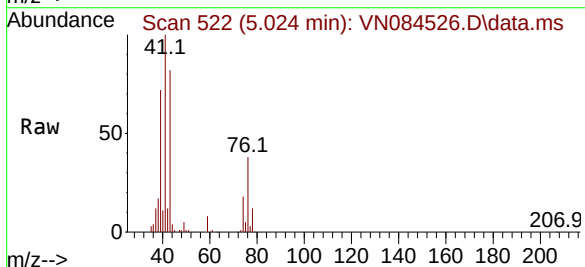
Tgt Ion: 41 Resp: 140102

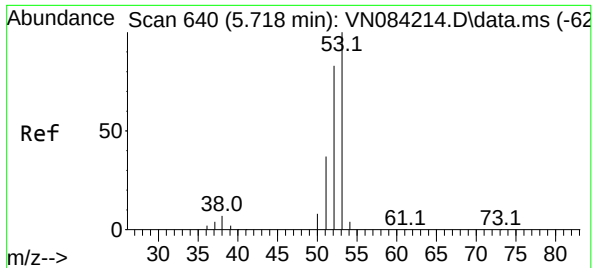
Ion Ratio Lower Upper

41 100

39 71.9 59.0 88.6

76 37.7 29.8 44.6





#15

Acrylonitrile

Concen: 248.067 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

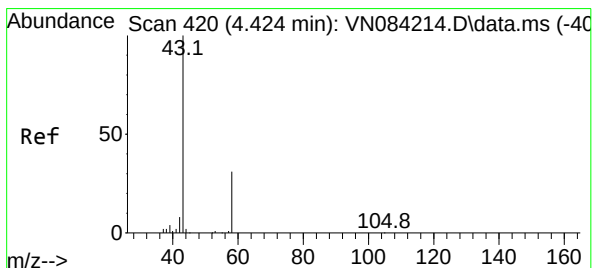
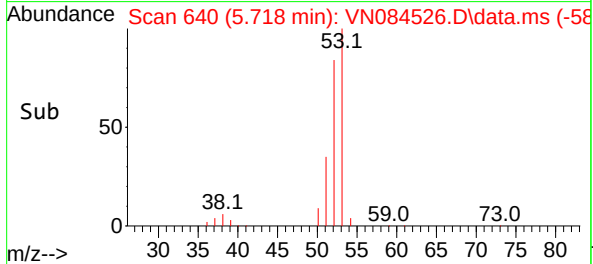
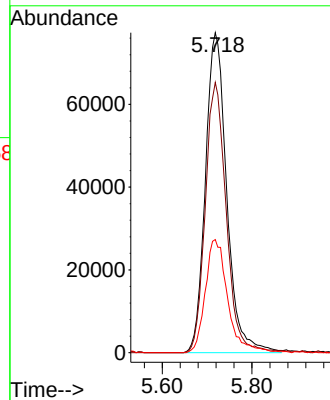
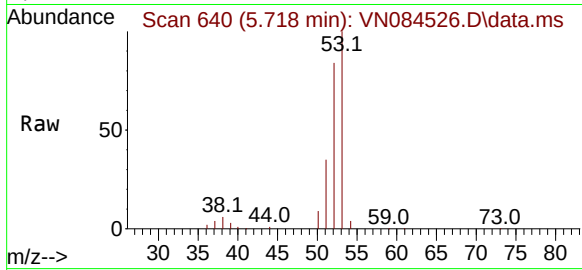
VSTDCCC050EC

Tgt Ion:	53	Resp:	25544
Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.2	99.4
51	37.2	28.8	43.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#16

Acetone

Concen: 200.799 ug/l

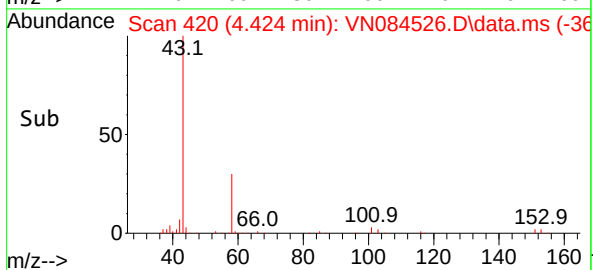
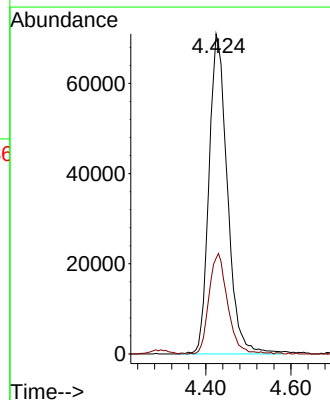
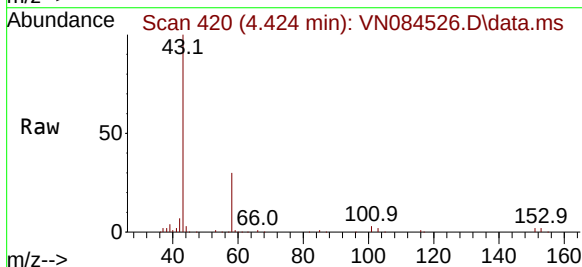
RT: 4.424 min Scan# 420

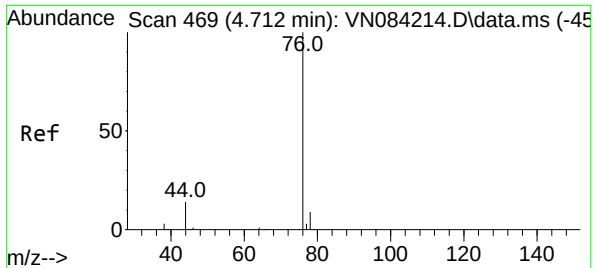
Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

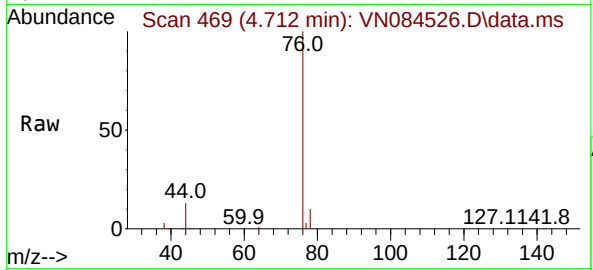
Tgt Ion:	43	Resp:	213314
Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.4	36.6





#17
Carbon Disulfide
Concen: 38.442 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

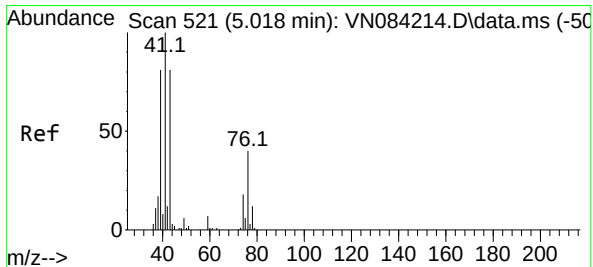
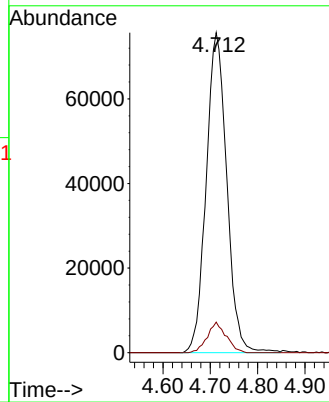
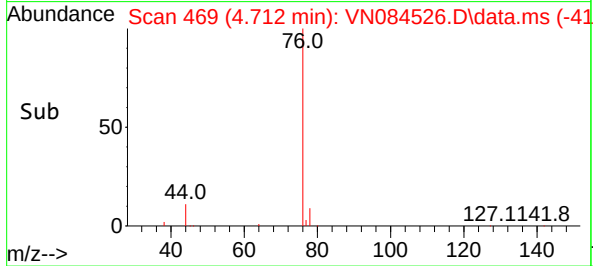
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 76 Resp: 228560
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9

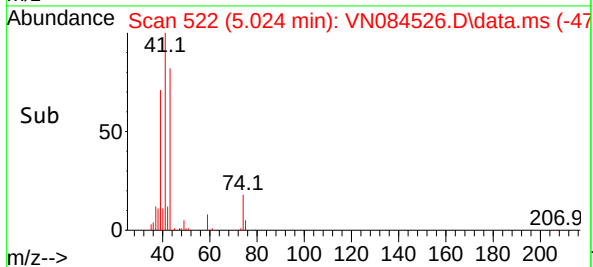
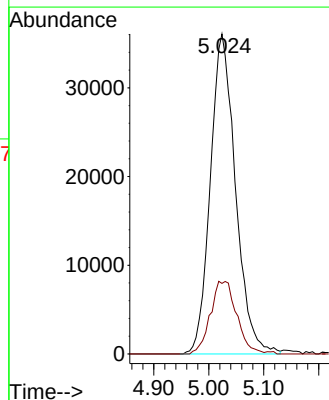
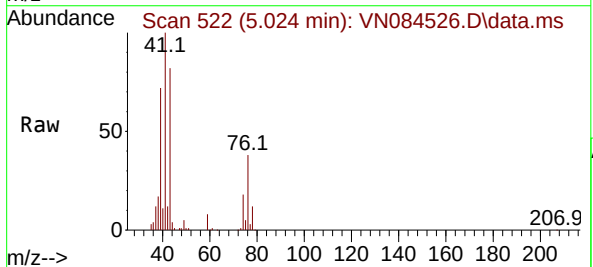
Manual Integrations
APPROVED

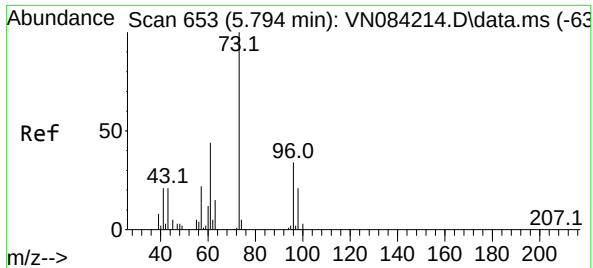
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#18
Methyl Acetate
Concen: 49.611 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 43 Resp: 114869
Ion Ratio Lower Upper
43 100
74 23.7 19.2 28.8





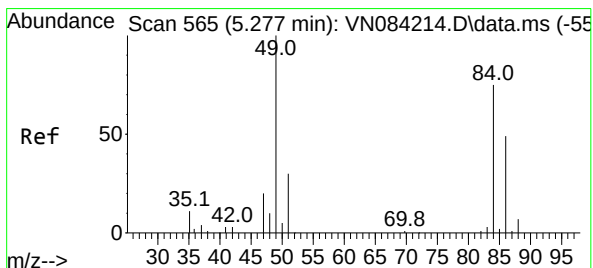
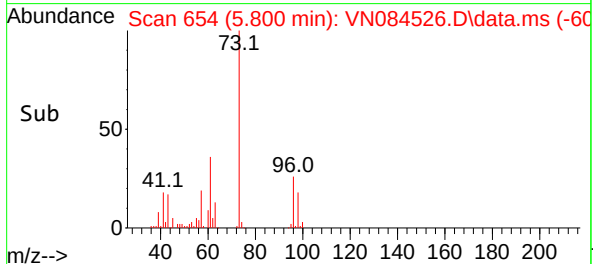
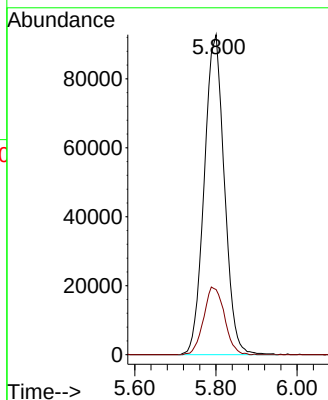
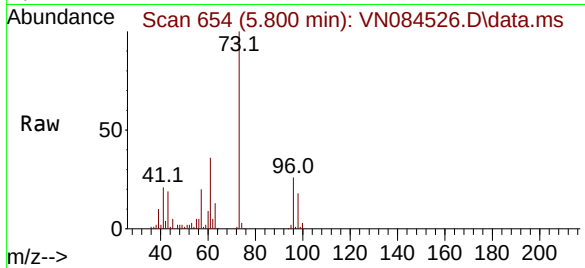
#19
Methyl tert-butyl Ether
Concen: 50.335 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 31903
Ion Ratio Lower Upper
73 100
57 20.3 17.7 26.5

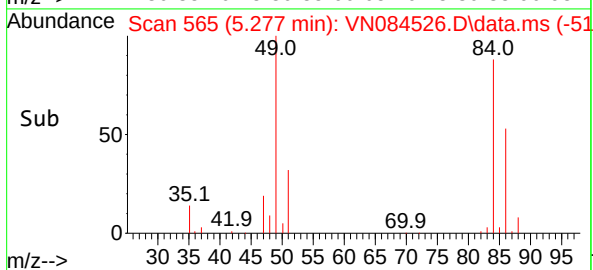
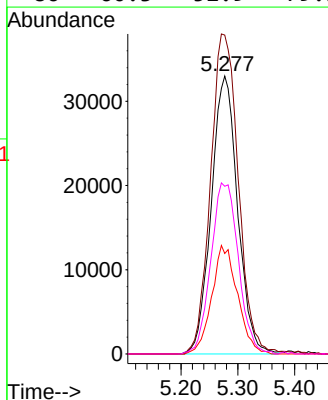
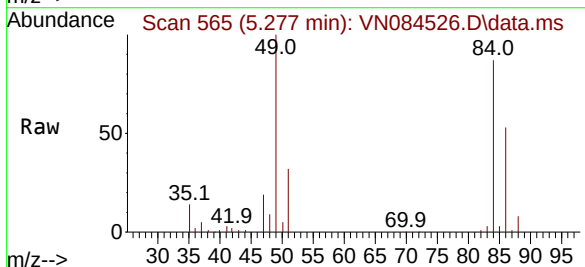
Manual Integrations
APPROVED

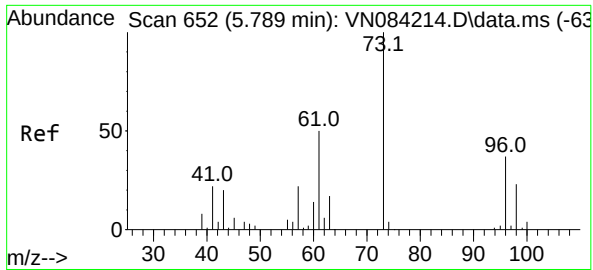
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#20
Methylene Chloride
Concen: 49.288 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

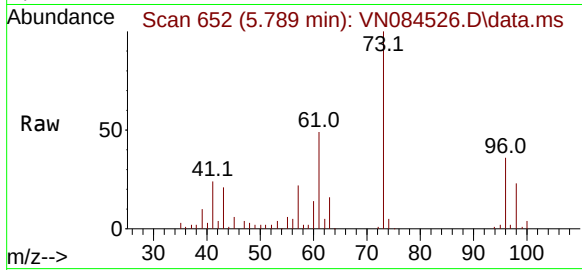
Tgt Ion: 84 Resp: 106437
Ion Ratio Lower Upper
84 100
49 114.7 107.2 160.8
51 36.2 31.8 47.8
86 60.3 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 47.709 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

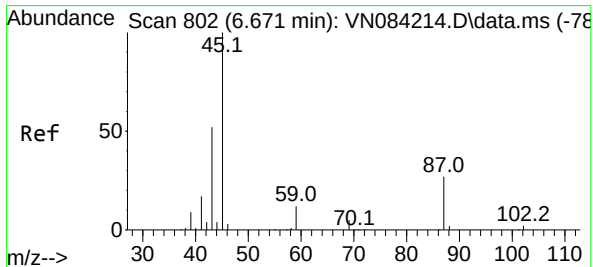
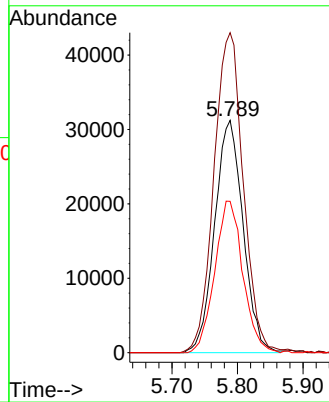
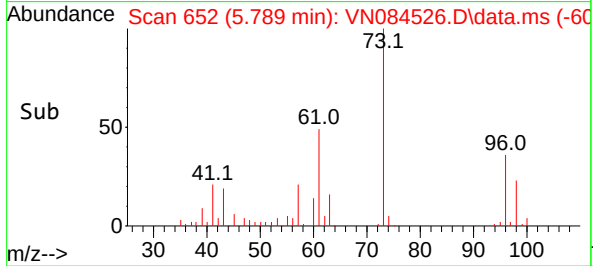
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 96 Resp: 93864
Ion Ratio Lower Upper
96 100
61 137.8 108.4 162.6
98 65.2 49.8 74.8

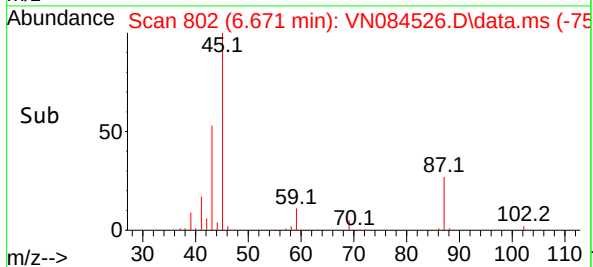
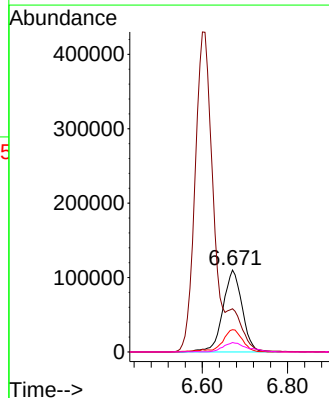
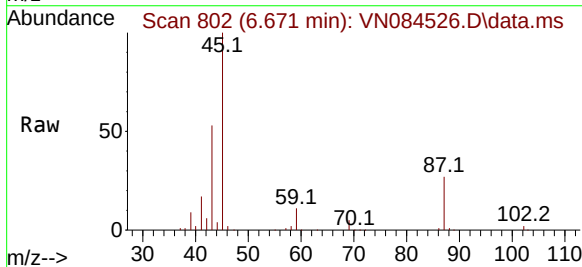
Manual Integrations
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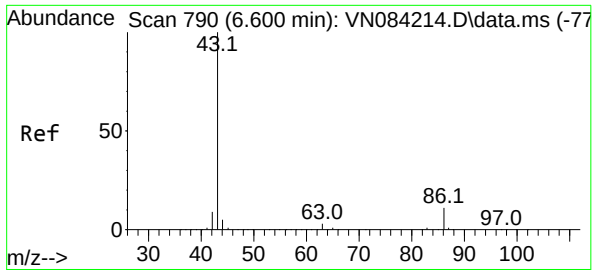
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#22
Diisopropyl ether
Concen: 51.132 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 45 Resp: 344942
Ion Ratio Lower Upper
45 100
43 51.9 42.3 63.5
87 27.2 21.8 32.6
59 11.5 9.6 14.4





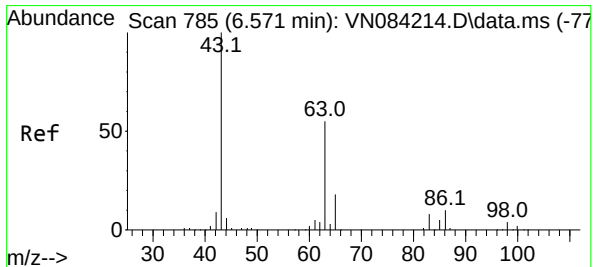
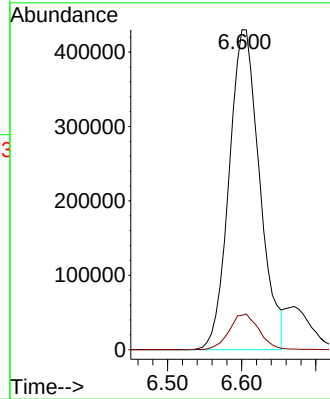
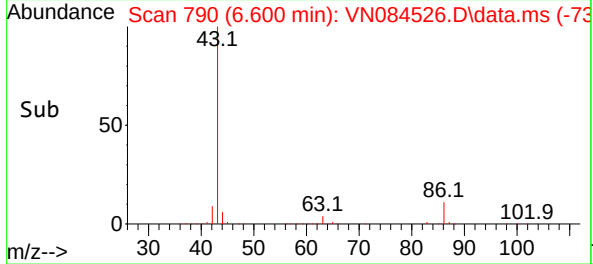
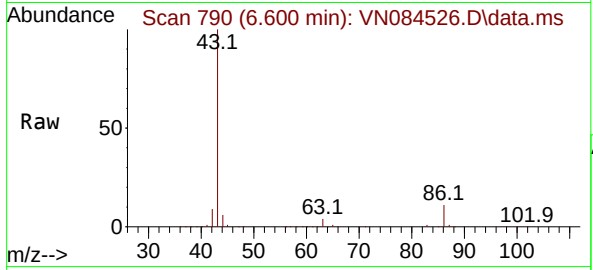
#23
Vinyl Acetate
Concen: 245.982 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 123078
Ion Ratio Lower Upper
43 100
86 10.8 8.6 12.8

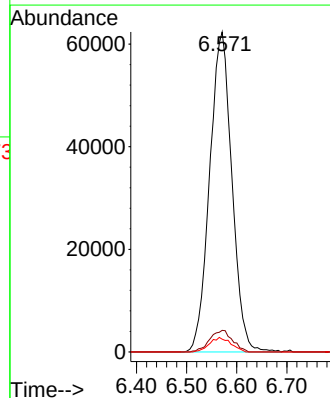
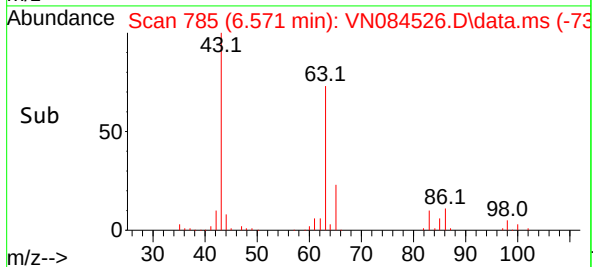
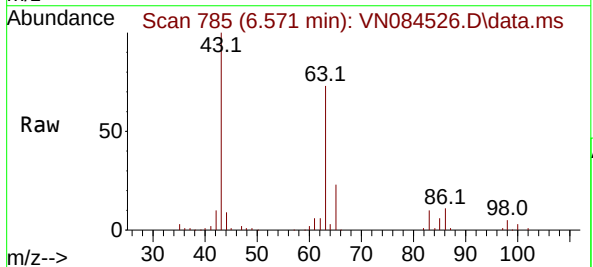
Manual Integrations
APPROVED

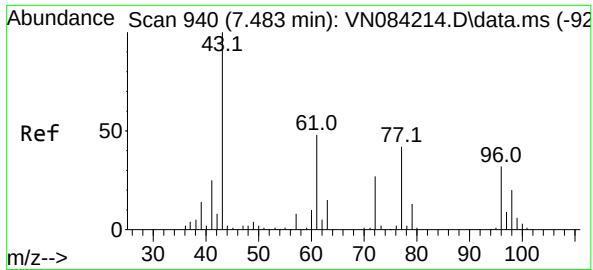
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#24
1,1-Dichloroethane
Concen: 50.989 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

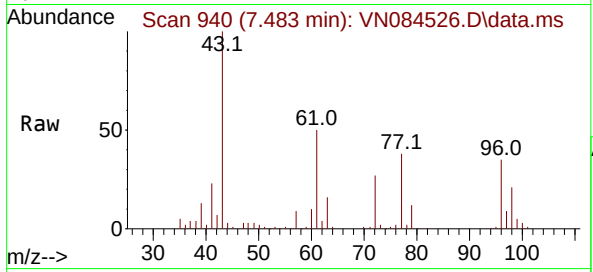
Tgt Ion: 63 Resp: 192358
Ion Ratio Lower Upper
63 100
98 6.7 3.4 10.2
100 4.0 2.0 5.8





#25
2-Butanone
Concen: 231.376 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

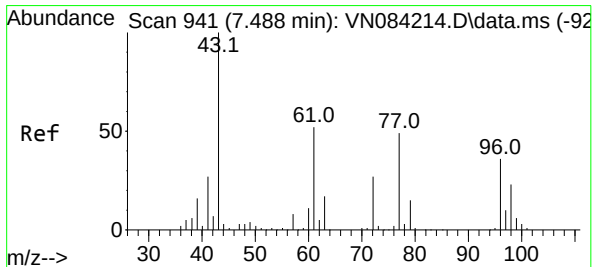
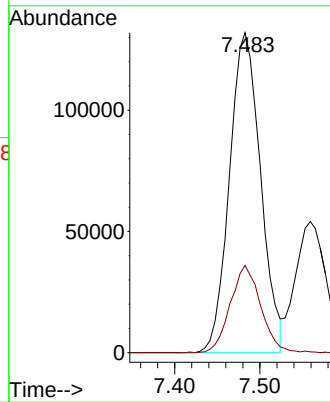
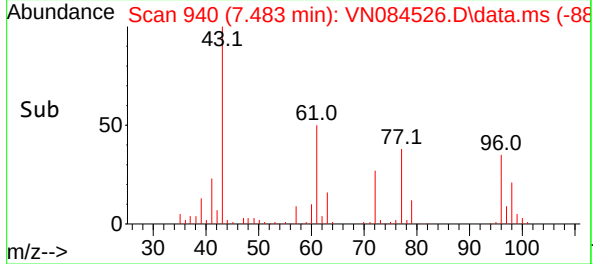
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 43 Resp: 334778
Ion Ratio Lower Upper
43 100
72 27.3 21.4 32.2

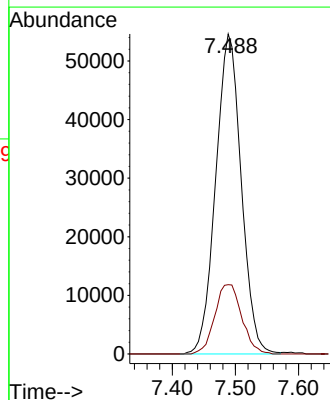
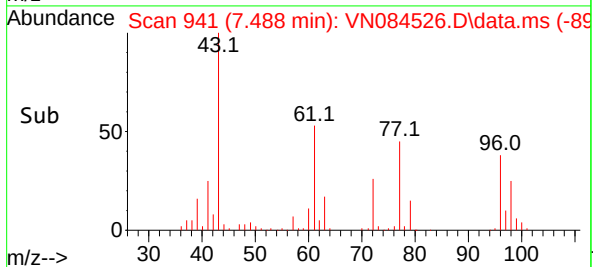
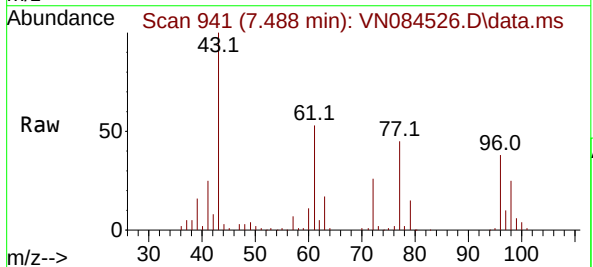
Manual Integrations
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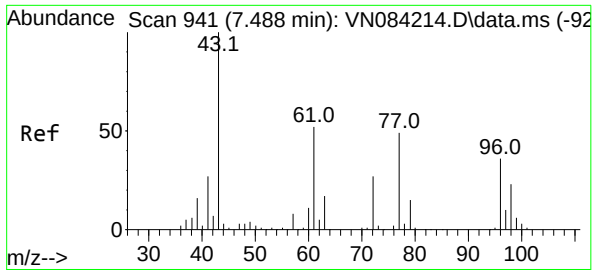
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#26
2,2-Dichloropropane
Concen: 45.038 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 77 Resp: 153197
Ion Ratio Lower Upper
77 100
97 22.9 10.8 32.3





#27

cis-1,2-Dichloroethene

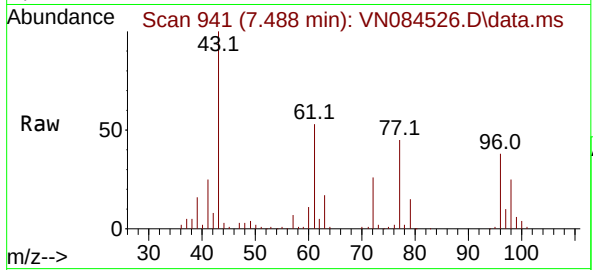
Concen: 51.007 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13



Tgt Ion: 96 Resp: 12126

Ion Ratio Lower Upper

96 100

61 143.6 0.0 301.8

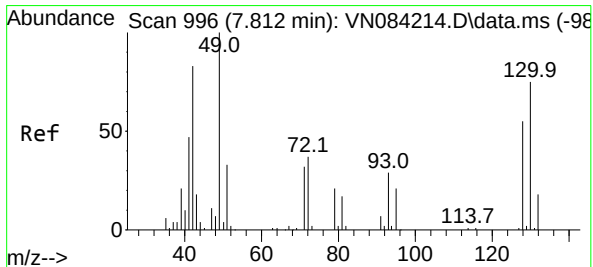
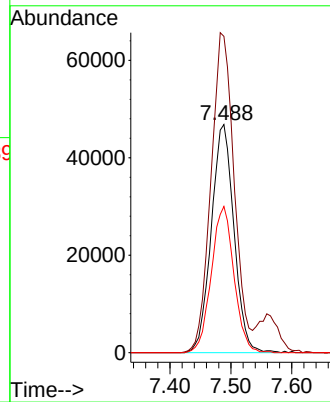
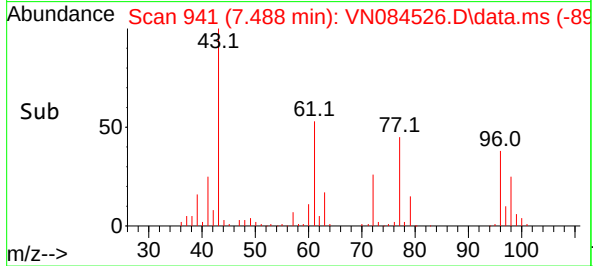
98 63.9 0.0 128.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#28

Bromochloromethane

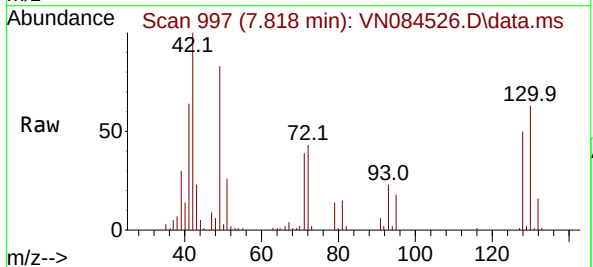
Concen: 49.424 ug/l

RT: 7.818 min Scan# 997

Delta R.T. 0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13



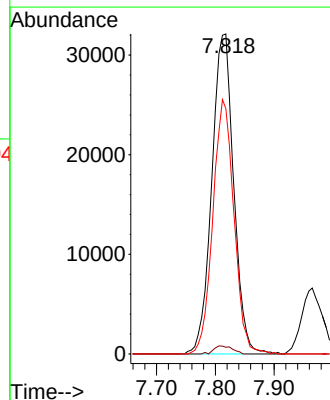
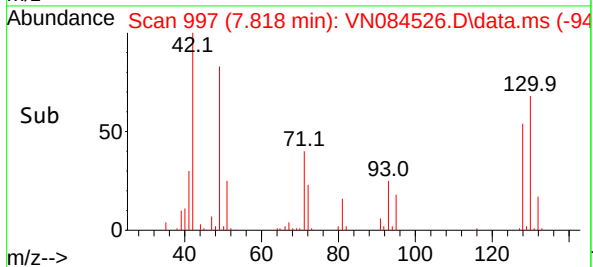
Tgt Ion: 49 Resp: 83192

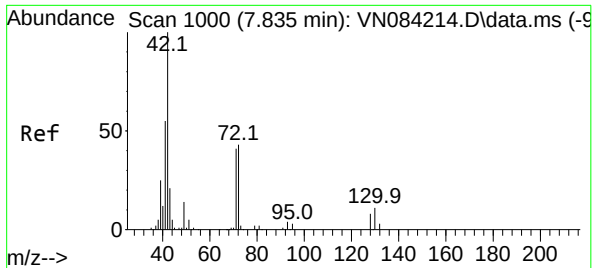
Ion Ratio Lower Upper

49 100

129 2.1 0.0 3.6

130 76.6 58.0 87.0





#29

Tetrahydrofuran

Concen: 248.934 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 42 Resp: 222275

Ion Ratio Lower Upper

42 100

72 44.3 34.6 51.8

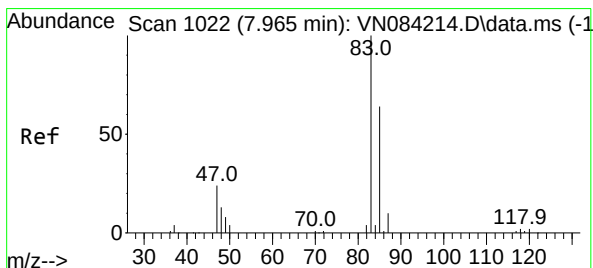
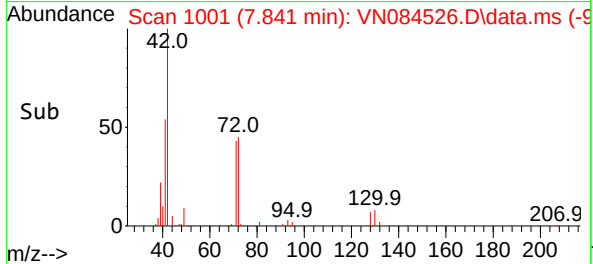
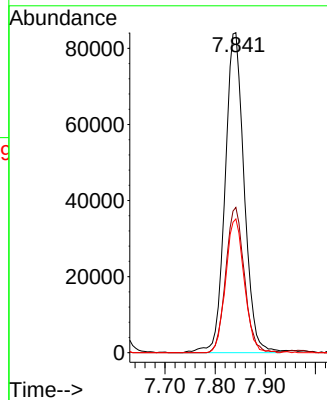
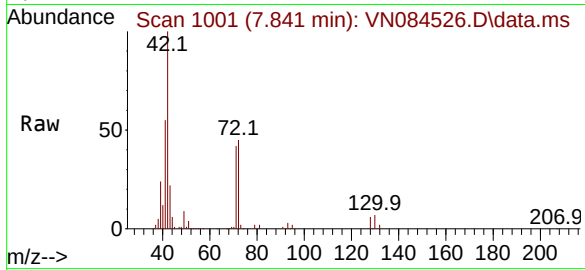
71 40.9 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#30

Chloroform

Concen: 52.045 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN084526.D

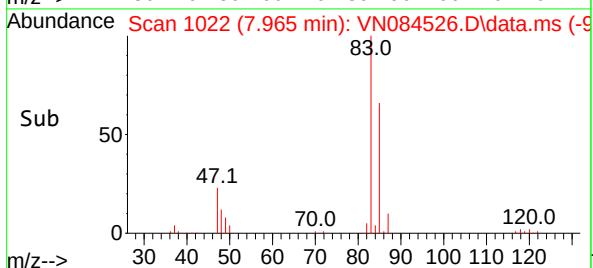
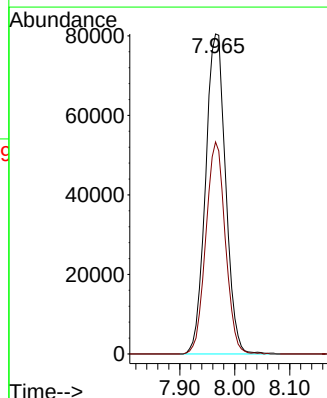
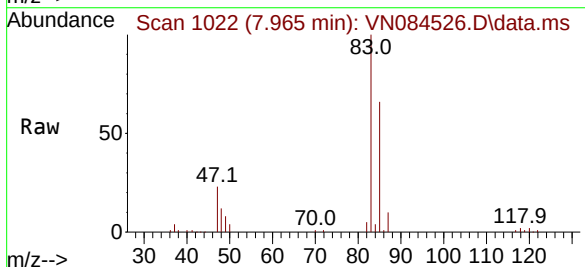
Acq: 25 Oct 2024 19:13

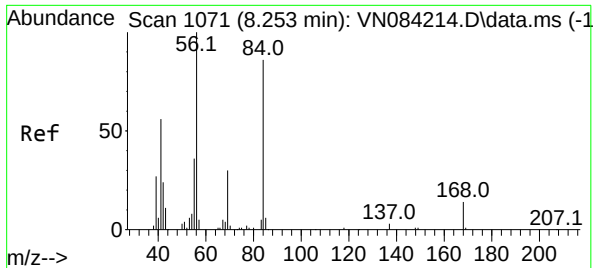
Tgt Ion: 83 Resp: 203952

Ion Ratio Lower Upper

83 100

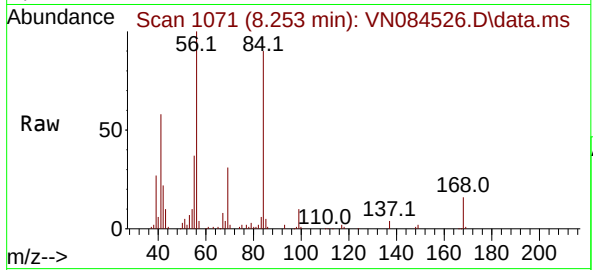
85 66.3 51.0 76.4





#31
Cyclohexane
Concen: 42.106 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

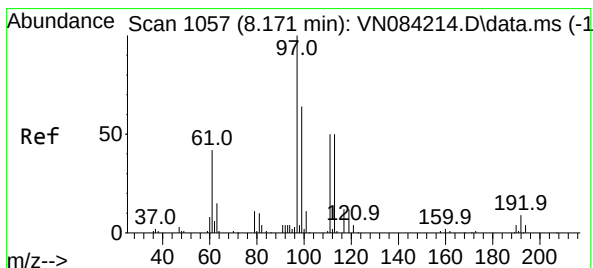
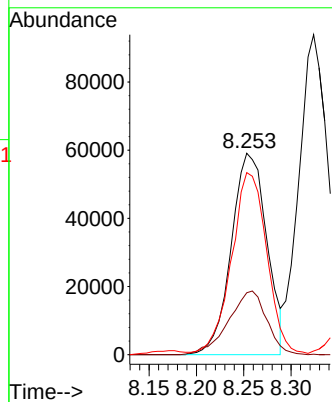
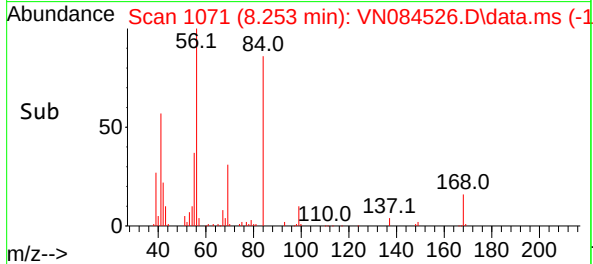
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 56 Resp: 15423
Ion Ratio Lower Upper
56 100
69 30.4 23.8 35.6
84 88.9 68.8 103.2

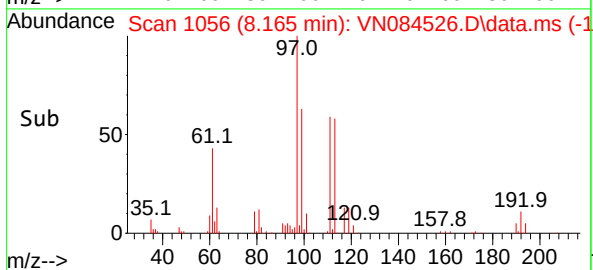
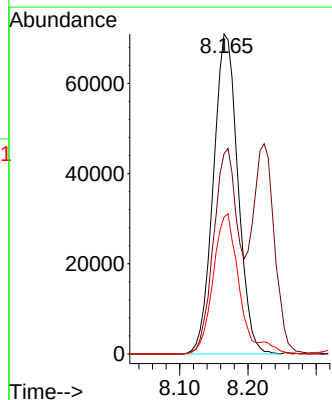
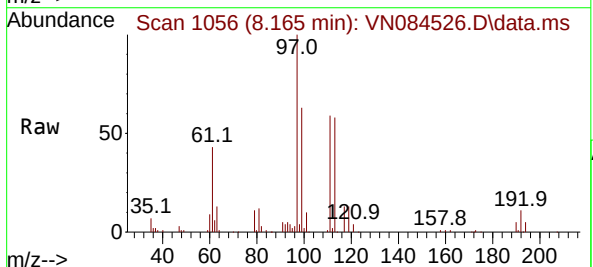
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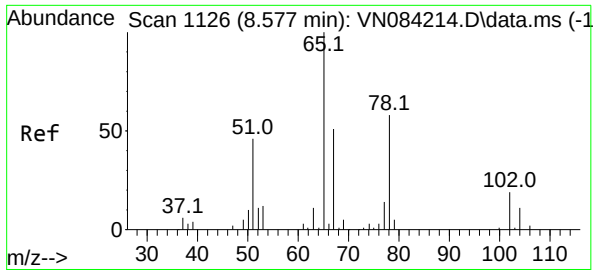
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#32
1,1,1-Trichloroethane
Concen: 50.640 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 97 Resp: 178226
Ion Ratio Lower Upper
97 100
99 64.2 51.2 76.8
61 46.9 37.5 56.3





#33

1,2-Dichloroethane-d4

Concen: 49.644 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 65 Resp: 12276

Ion Ratio Lower Upper

65 100

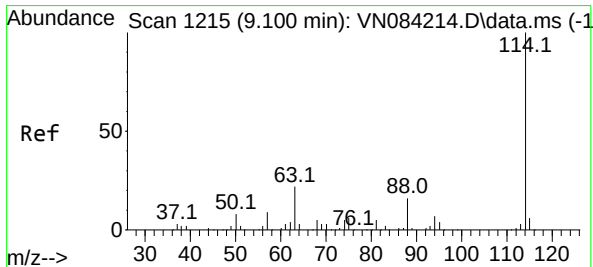
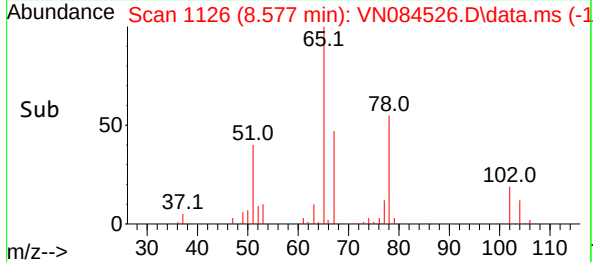
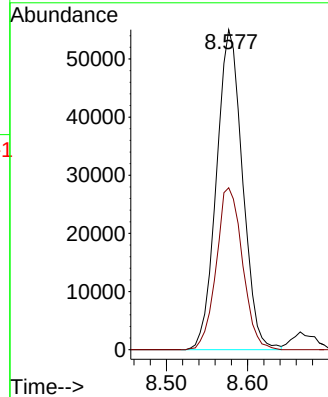
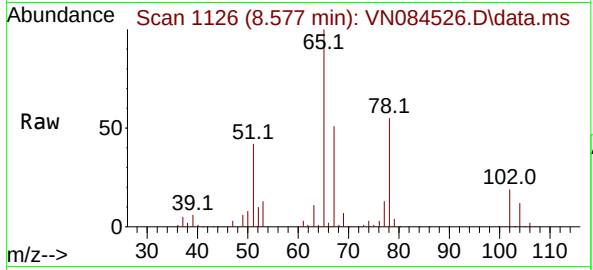
67 50.9 0.0 102.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

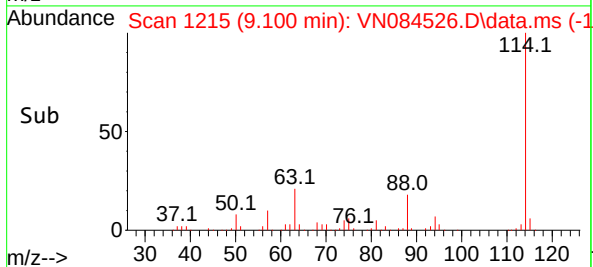
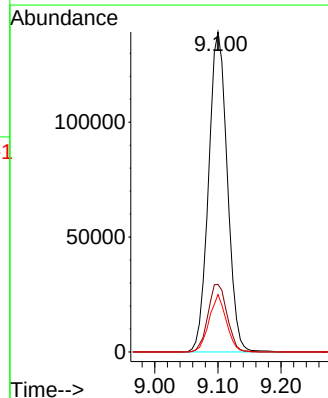
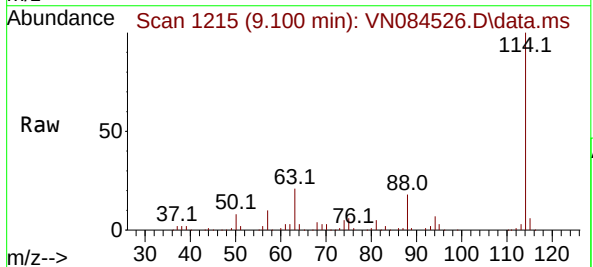
Tgt Ion:114 Resp: 286652

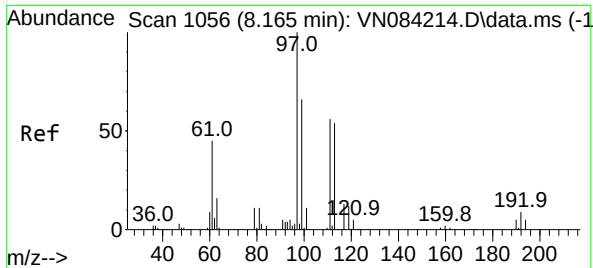
Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.8

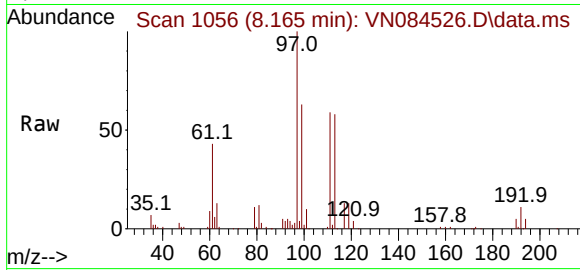
88 17.9 0.0 31.6





#35
Dibromofluoromethane
Concen: 52.217 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

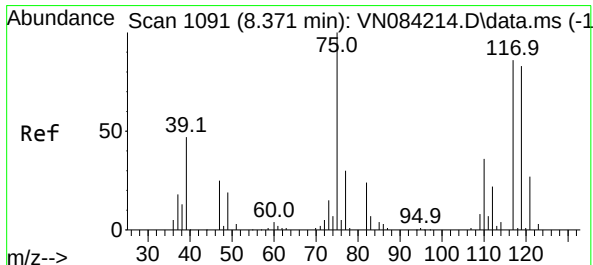
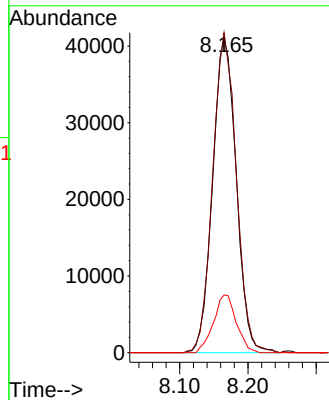
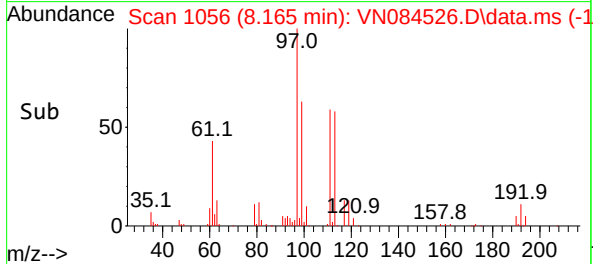
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:113 Resp: 98679
Ion Ratio Lower Upper
113 100
111 101.8 83.3 124.9
192 17.8 13.5 20.3

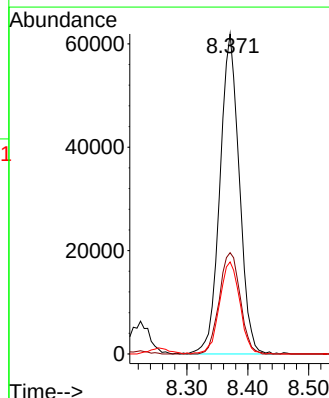
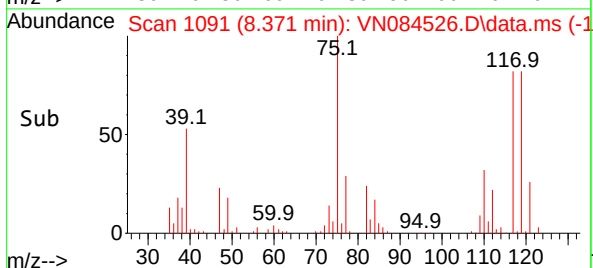
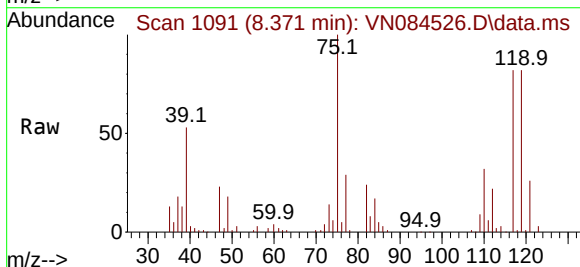
Manual Integrations
APPROVED

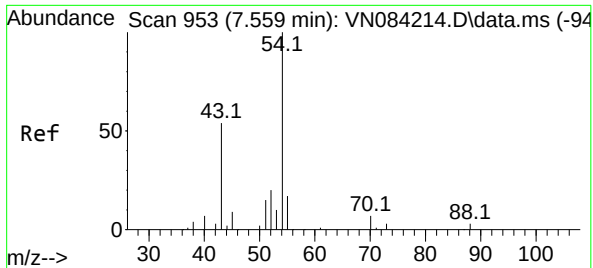
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#36
1,1-Dichloropropene
Concen: 49.831 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 75 Resp: 136786
Ion Ratio Lower Upper
75 100
110 34.1 16.9 50.7
77 30.2 24.7 37.1





#37

Ethyl Acetate

Concen: 49.906 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 140540

Ion Ratio Lower Upper

43 100

61 13.3 10.7 16.1

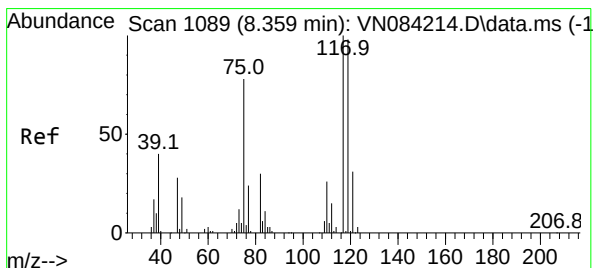
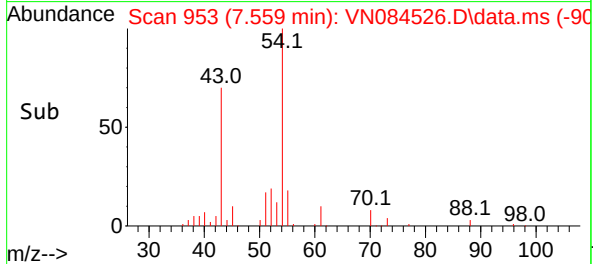
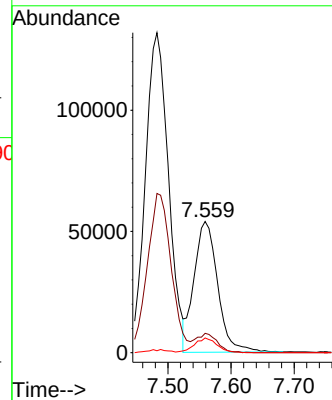
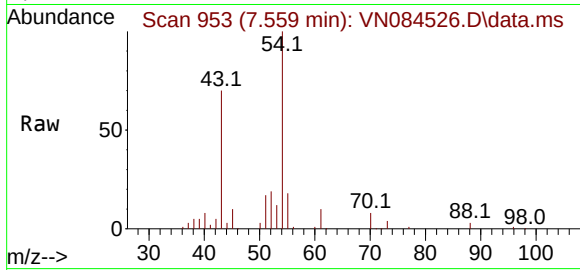
70 10.7 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#38

Carbon Tetrachloride

Concen: 50.544 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

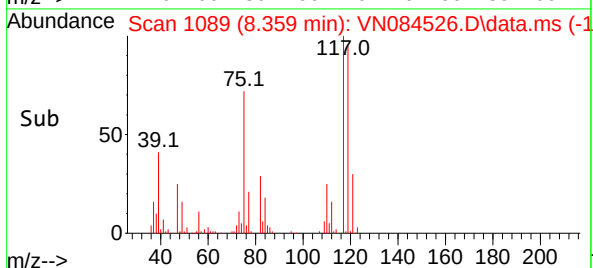
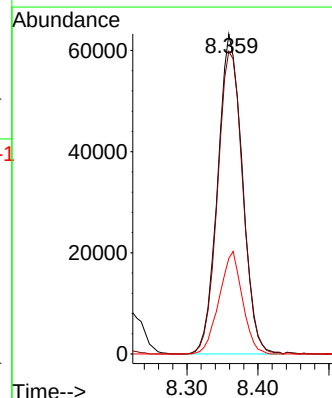
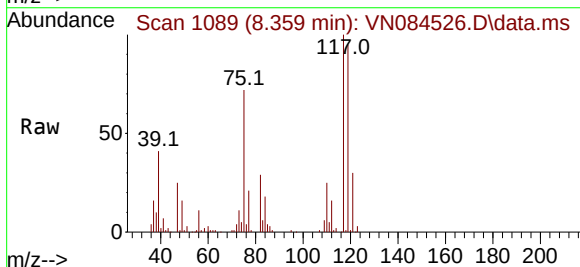
Tgt Ion:117 Resp: 152192

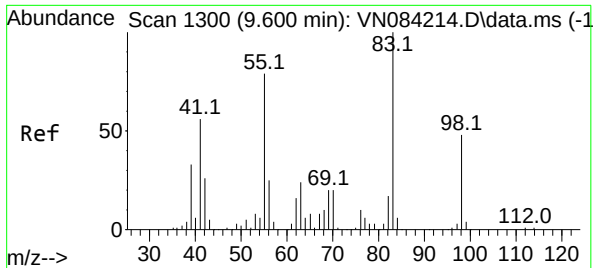
Ion Ratio Lower Upper

117 100

119 94.5 78.7 118.1

121 29.9 24.4 36.6





#39

Methylcyclohexane

Concen: 46.735 ug/l

RT: 9.600 min Scan# 11300

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 142779

Ion Ratio Lower Upper

83 100

55 77.6 62.8 94.2

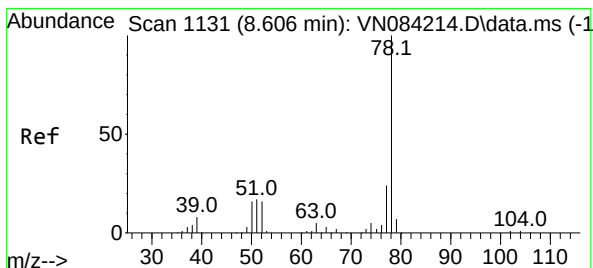
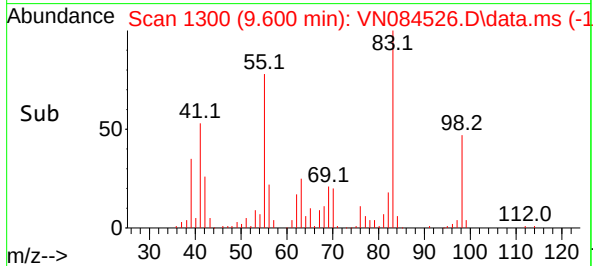
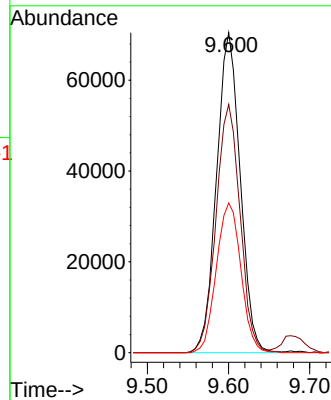
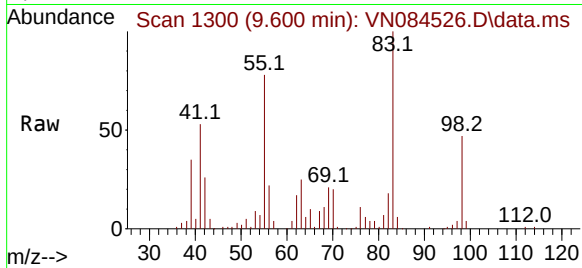
98 46.8 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#40

Benzene

Concen: 50.775 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN084526.D

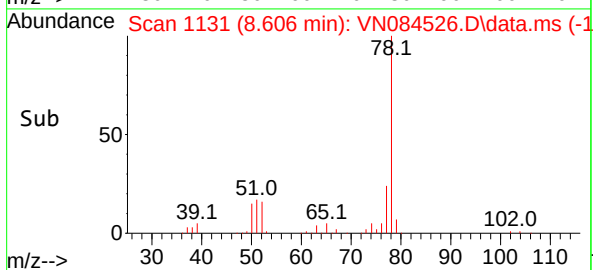
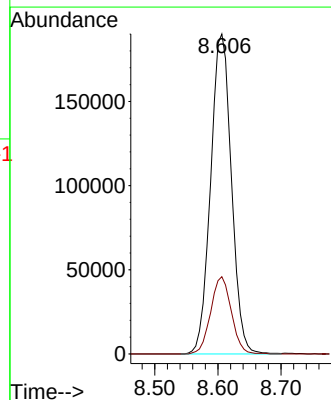
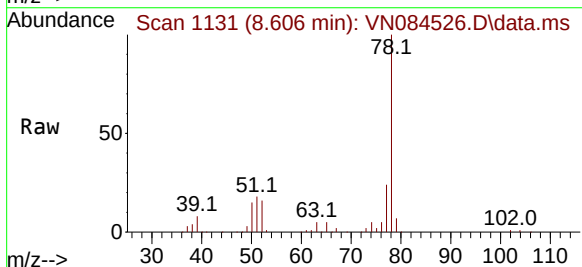
Acq: 25 Oct 2024 19:13

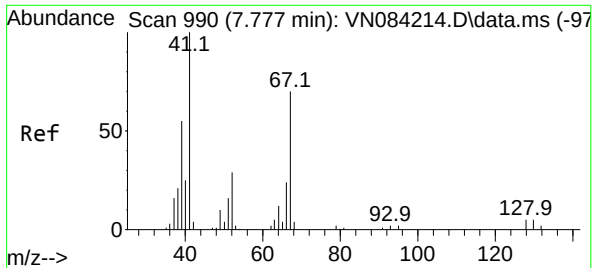
Tgt Ion: 78 Resp: 434246

Ion Ratio Lower Upper

78 100

77 24.2 19.1 28.7





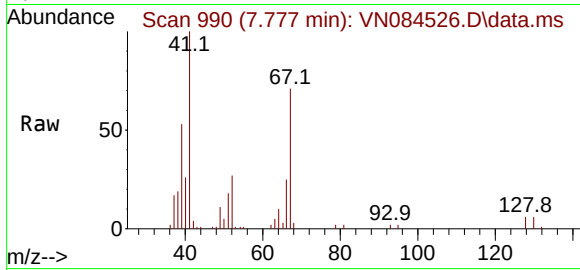
#41
Methacrylonitrile
Concen: 51.145 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

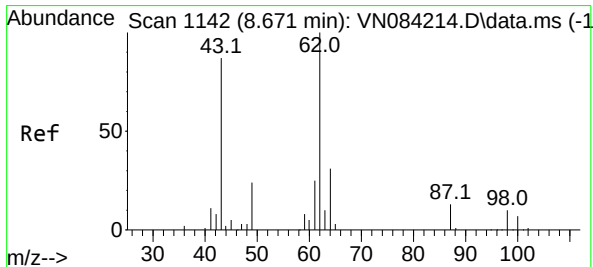
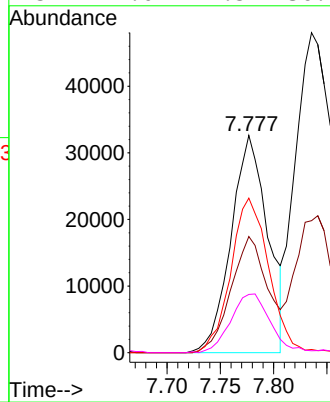
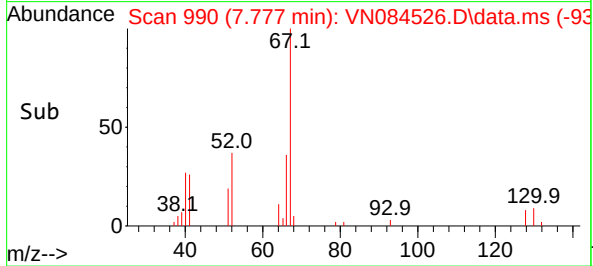


Tgt Ion: 41 Resp: 7819
Ion Ratio Lower Upper
41 100
39 53.5 43.3 64.9
67 74.0 56.1 84.1
52 29.0 24.5 36.7

Manual Integrations

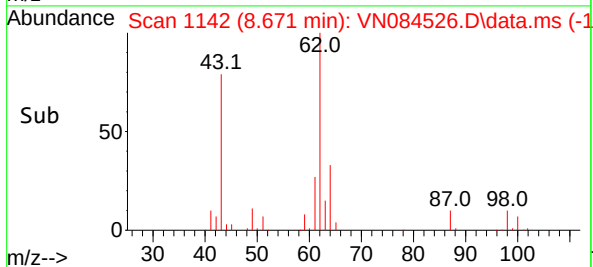
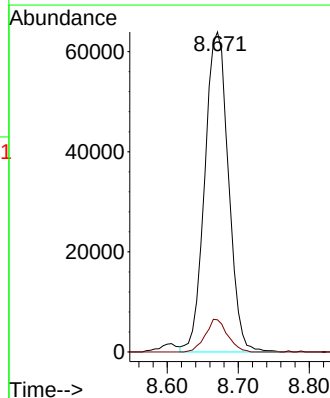
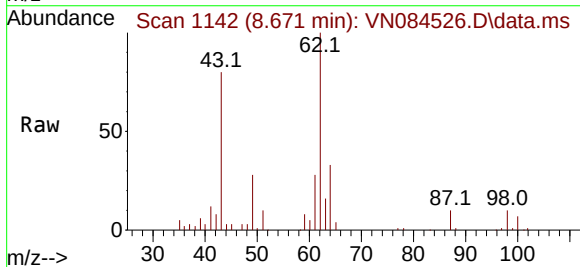
APPROVED

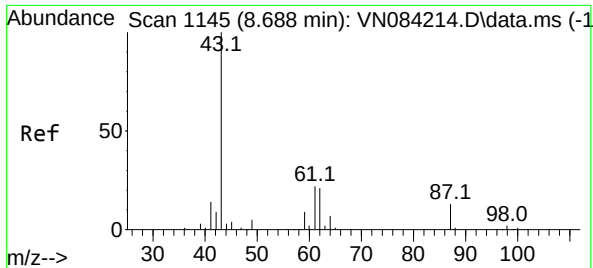
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#42
1,2-Dichloroethane
Concen: 51.069 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 62 Resp: 148069
Ion Ratio Lower Upper
62 100
98 9.5 0.0 18.2





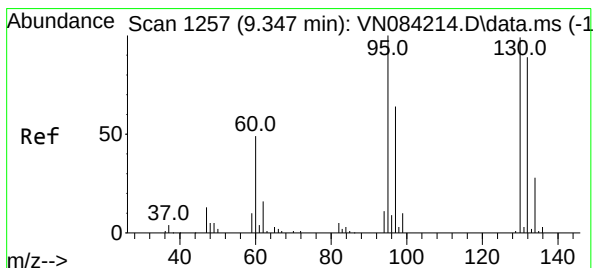
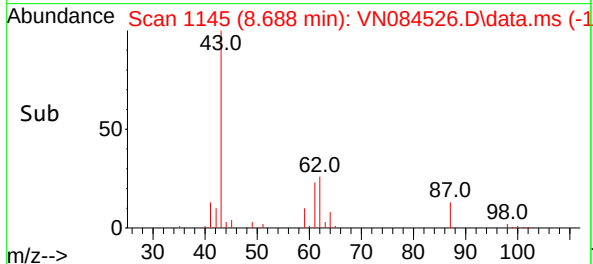
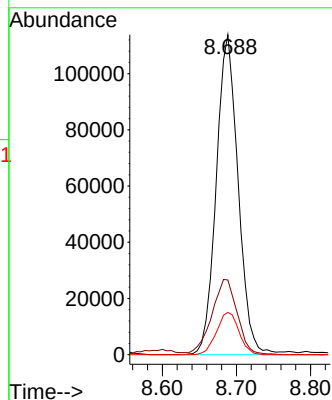
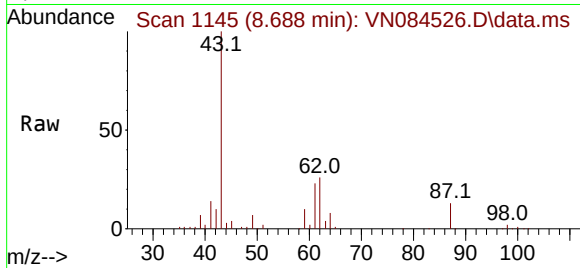
#43
Isopropyl Acetate
Concen: 42.271 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 23316
Ion Ratio Lower Upper
43 100
61 27.6 20.4 30.6
87 13.5 10.3 15.5

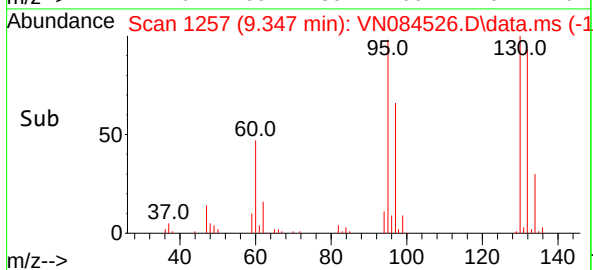
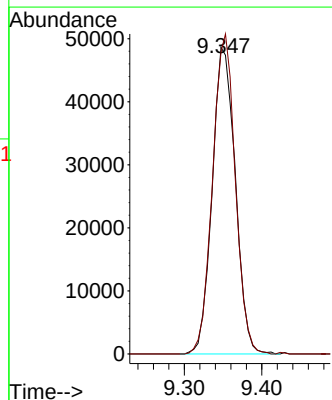
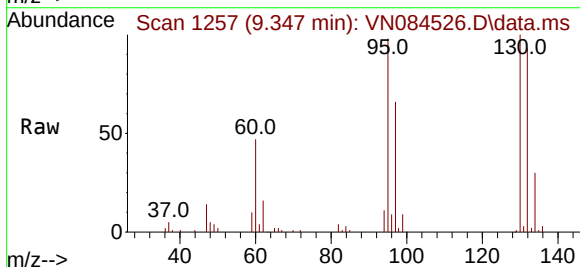
Manual Integrations
APPROVED

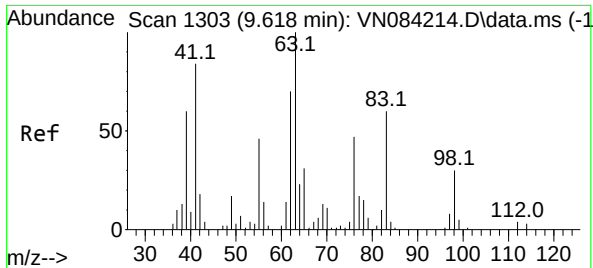
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#44
Trichloroethene
Concen: 50.453 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion:130 Resp: 100781
Ion Ratio Lower Upper
130 100
95 98.4 0.0 203.0





#45

1,2-Dichloropropane

Concen: 53.889 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 109028

Ion Ratio Lower Upper

63 100

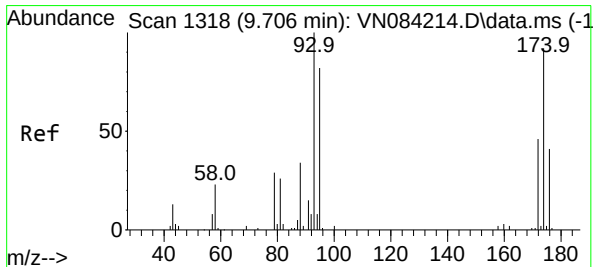
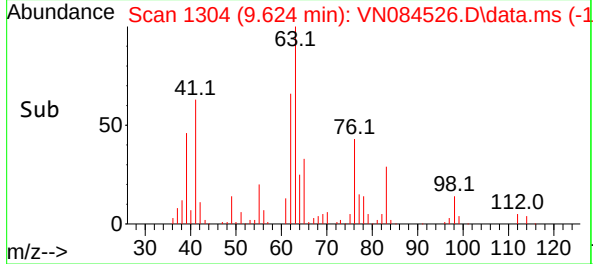
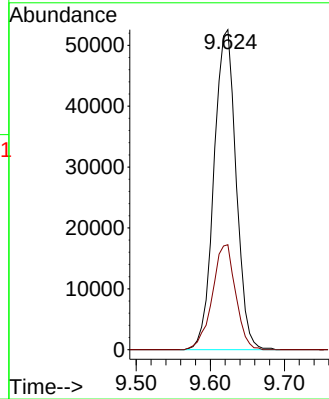
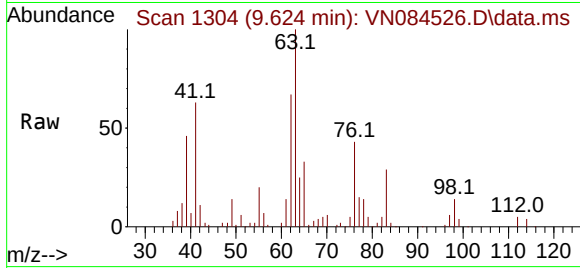
65 32.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#46

Dibromomethane

Concen: 55.510 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

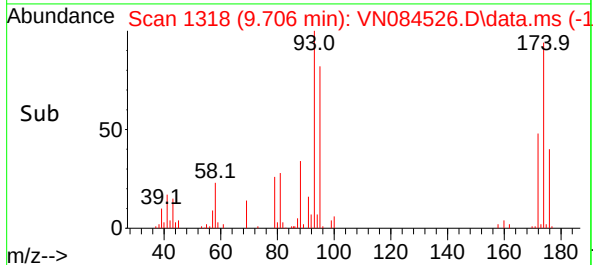
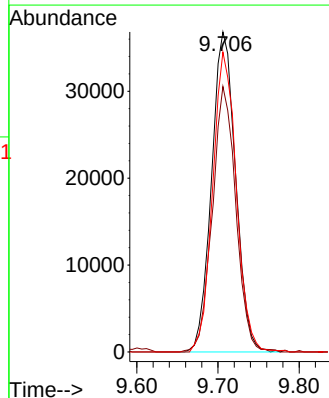
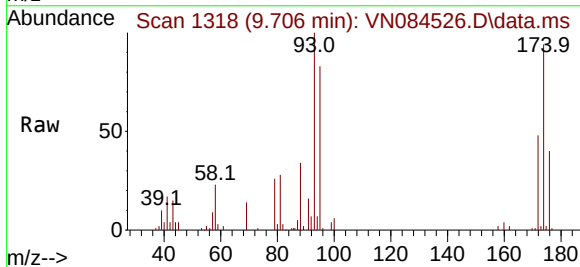
Tgt Ion: 93 Resp: 75789

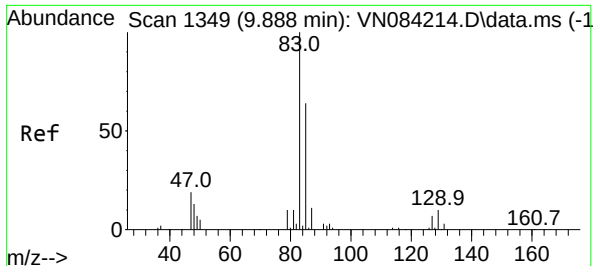
Ion Ratio Lower Upper

93 100

95 81.1 65.0 97.4

174 92.3 71.8 107.8





#47

Bromodichloromethane

Concen: 53.371 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

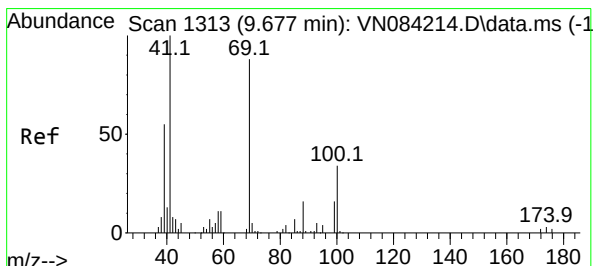
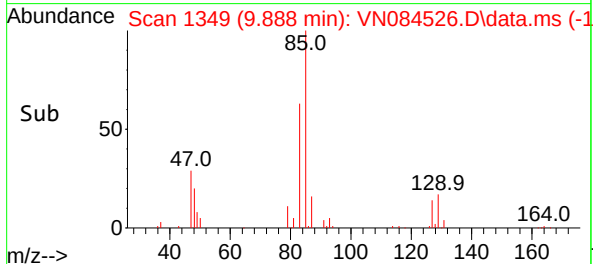
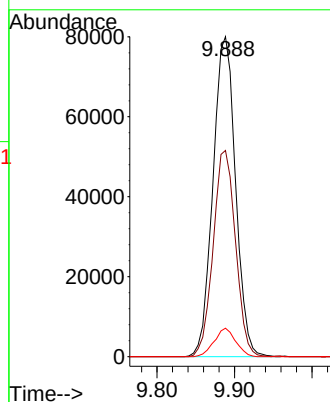
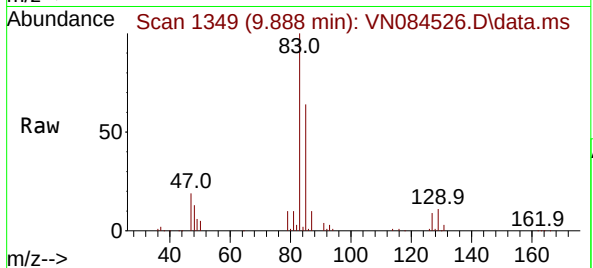
Tgt Ion: 83 Resp: 16189

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.5	77.3
127	8.9	5.7	8.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#48

Methyl methacrylate

Concen: 50.076 ug/l

RT: 9.682 min Scan# 1314

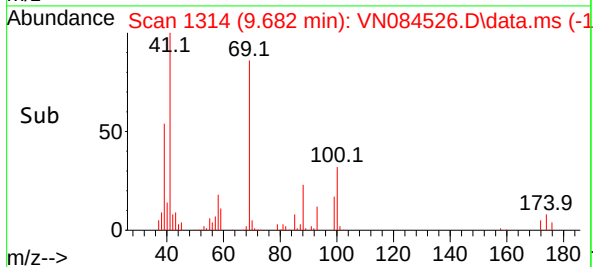
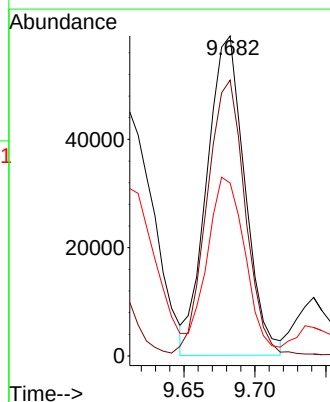
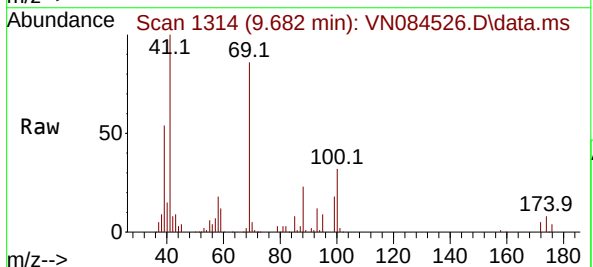
Delta R.T. 0.006 min

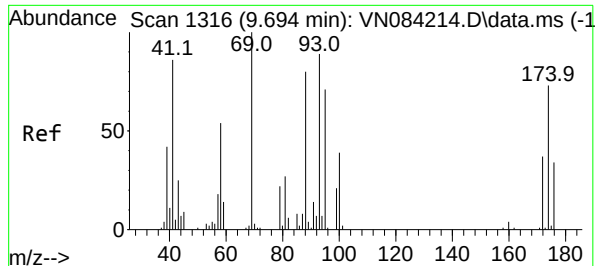
Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Tgt Ion: 41 Resp: 109954

Ion	Ratio	Lower	Upper
41	100		
69	87.5	67.1	100.7
39	56.0	45.8	68.6





#49

1,4-Dioxane

Concen: 986.815 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 88 Resp: 3989

Ion Ratio Lower Upper

88 100

43 33.6 25.3 37.9

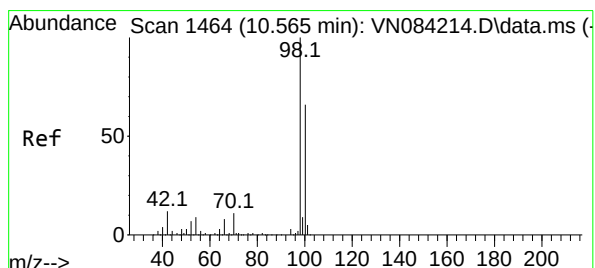
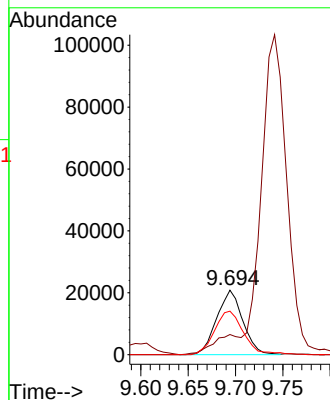
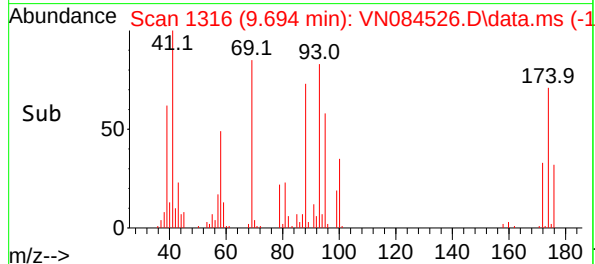
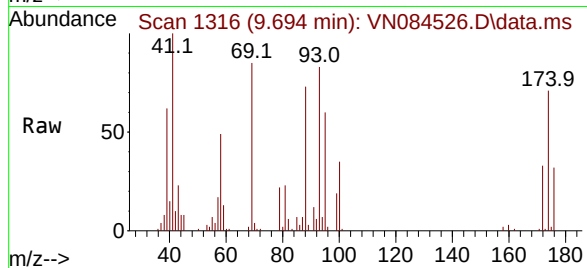
58 75.5 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#50

Toluene-d8

Concen: 51.332 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084526.D

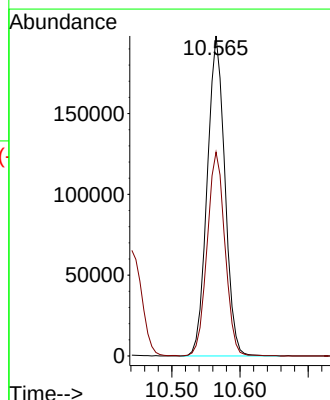
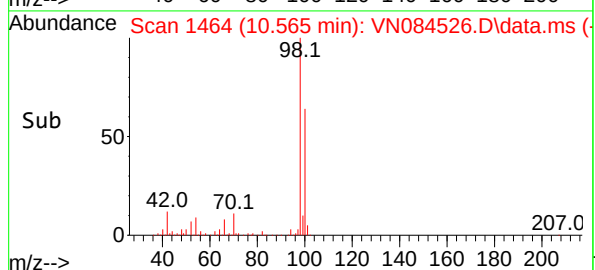
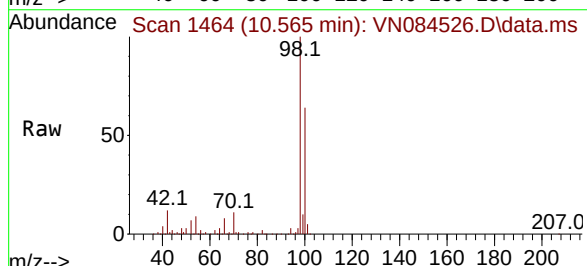
Acq: 25 Oct 2024 19:13

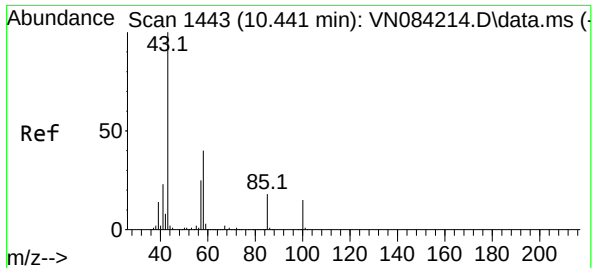
Tgt Ion: 98 Resp: 356900

Ion Ratio Lower Upper

98 100

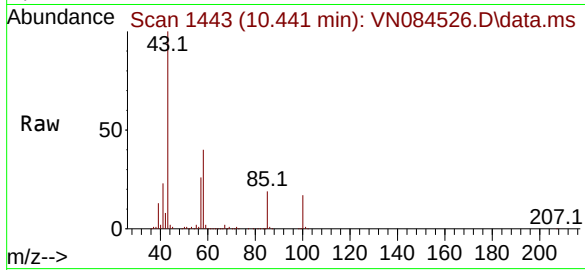
100 64.2 52.7 79.1





#51
4-Methyl-2-Pentanone
Concen: 264.775 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

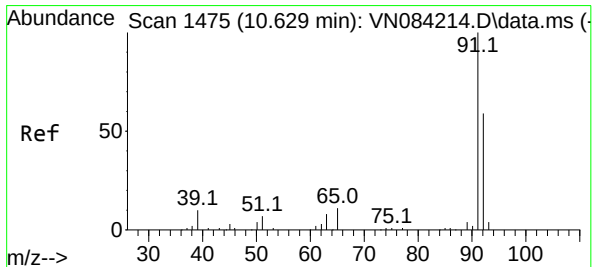
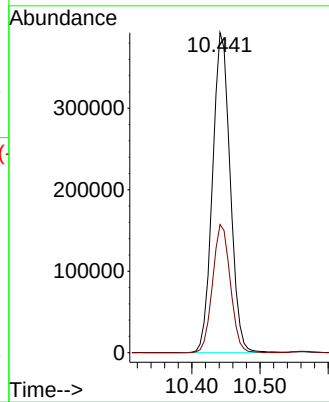
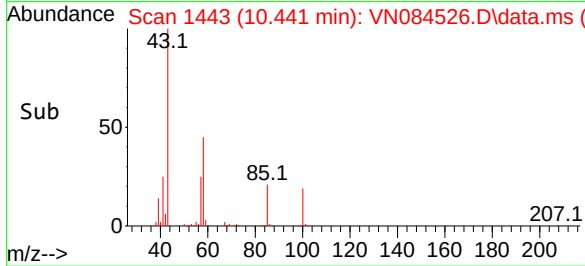
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 43 Resp: 709810
Ion Ratio Lower Upper
43 100
58 40.1 31.6 47.4

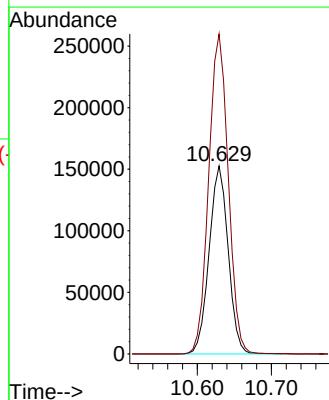
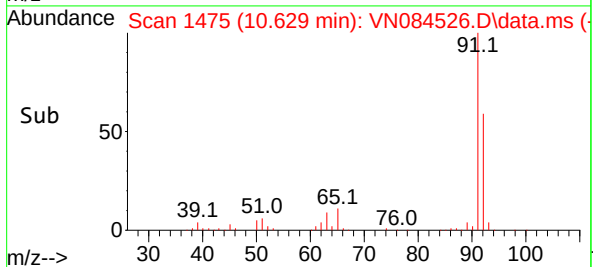
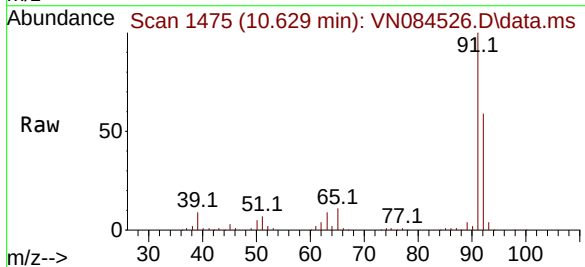
Manual Integrations
APPROVED

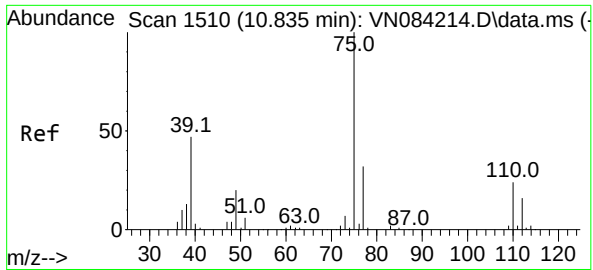
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#52
Toluene
Concen: 52.357 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

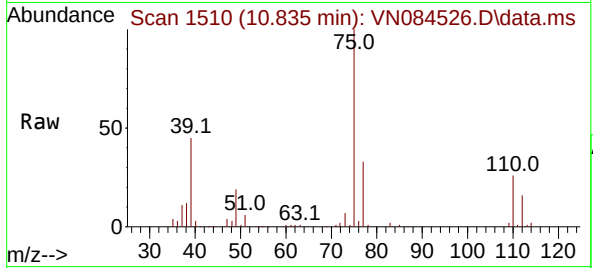
Tgt Ion: 92 Resp: 273057
Ion Ratio Lower Upper
92 100
91 174.5 137.3 205.9





#53
t-1,3-Dichloropropene
Concen: 52.078 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

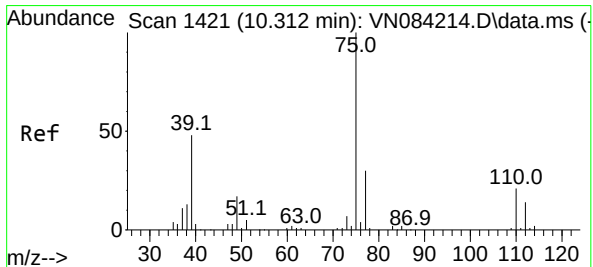
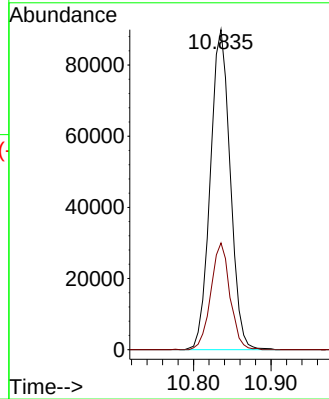
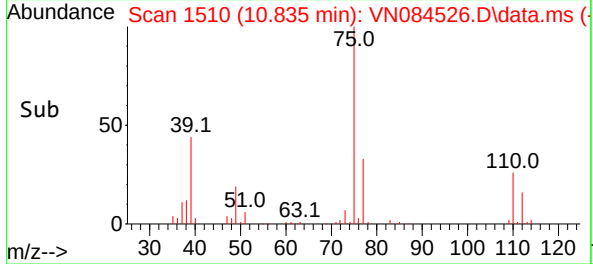
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 75 Resp: 161025
Ion Ratio Lower Upper
75 100
77 33.3 25.4 38.0

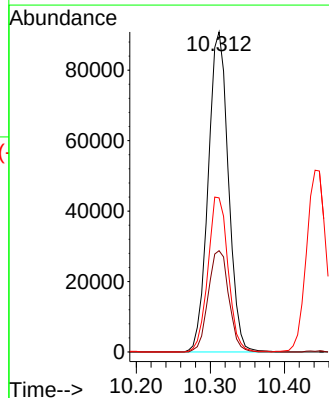
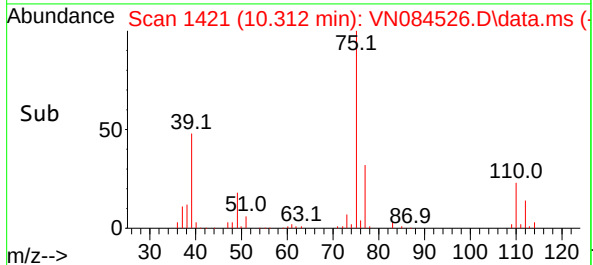
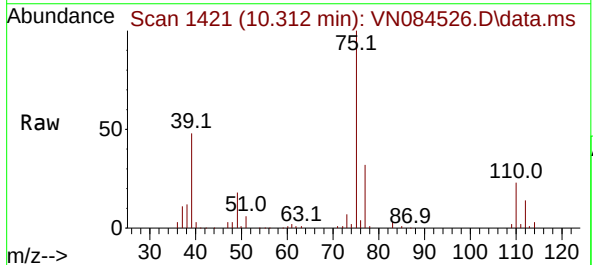
Manual Integrations
APPROVED

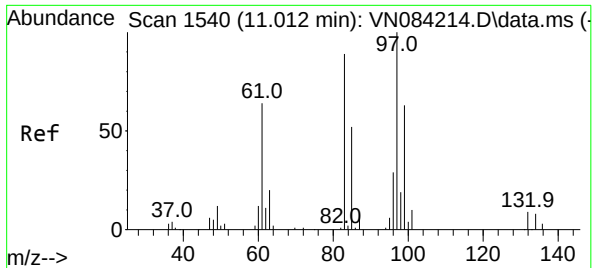
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#54
cis-1,3-Dichloropropene
Concen: 51.711 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

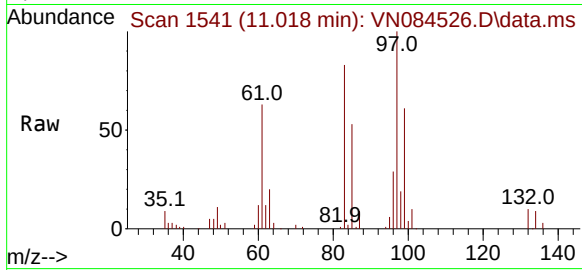
Tgt Ion: 75 Resp: 171984
Ion Ratio Lower Upper
75 100
77 31.7 24.2 36.2
39 48.1 38.7 58.1





#55
1,1,2-Trichloroethane
Concen: 54.831 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

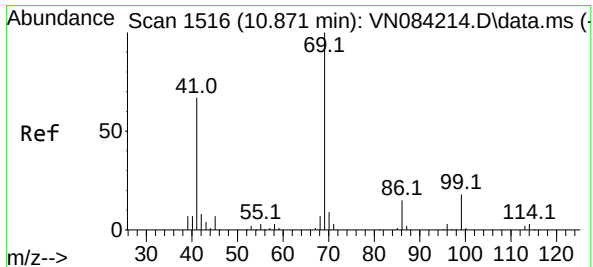
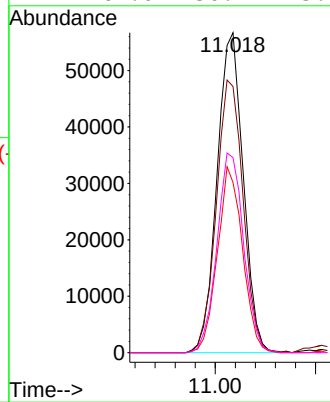
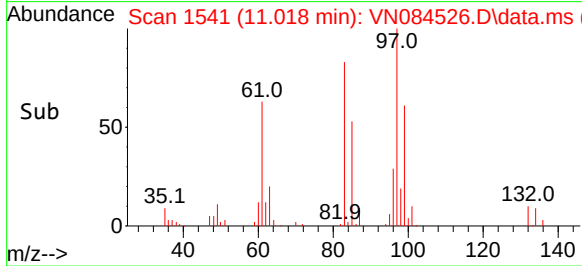
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



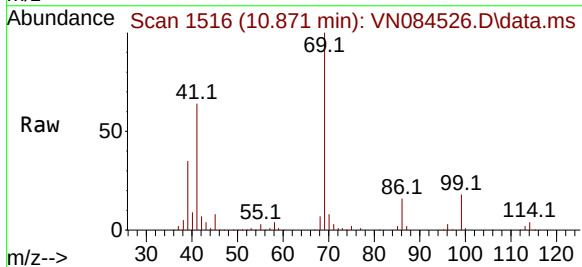
Tgt Ion: 97 Resp: 102511
Ion Ratio Lower Upper
97 100
83 83.2 71.0 106.4
85 53.2 41.7 62.5
99 61.0 50.1 75.1

Manual Integrations
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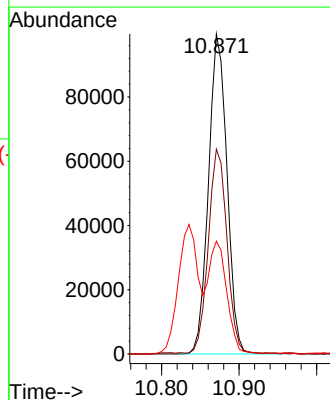
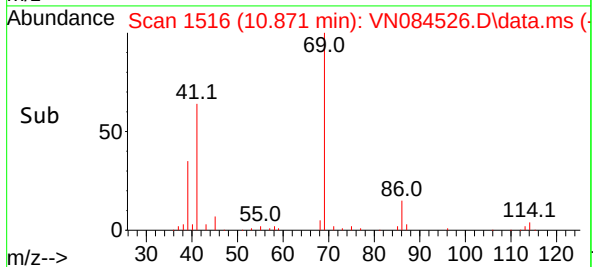
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

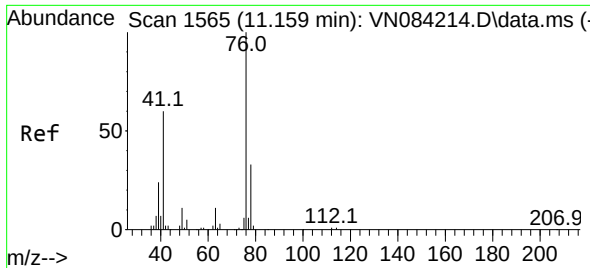


#56
Ethyl methacrylate
Concen: 53.712 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13



Tgt Ion: 69 Resp: 165239
Ion Ratio Lower Upper
69 100
41 64.2 53.3 79.9
39 34.8 28.8 43.2





#57

1,3-Dichloropropane

Concen: 53.769 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 179630

Ion Ratio Lower Upper

76 100

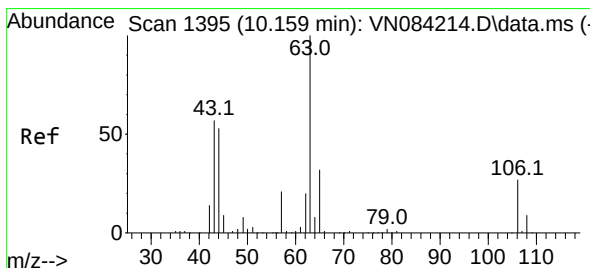
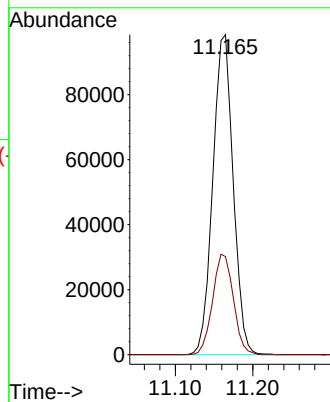
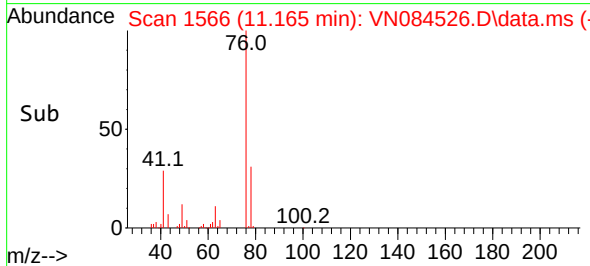
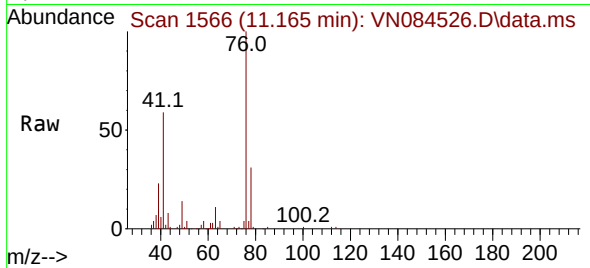
78 31.9 25.8 38.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#58

2-Chloroethyl Vinyl ether

Concen: 259.663 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN084526.D

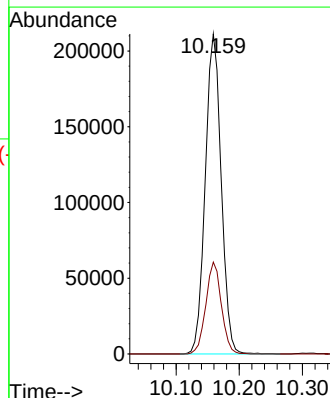
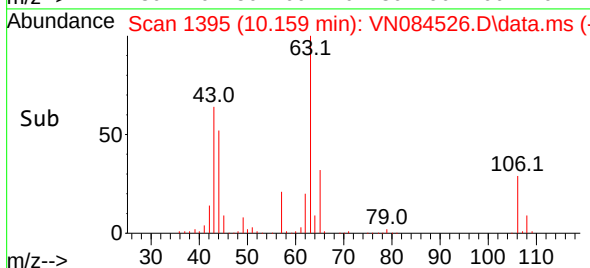
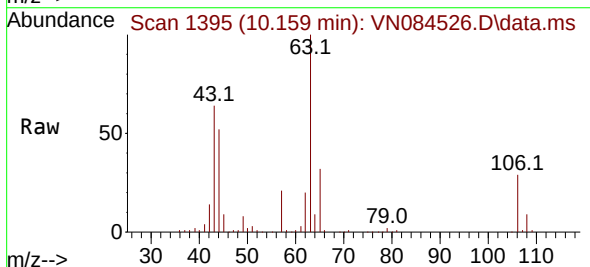
Acq: 25 Oct 2024 19:13

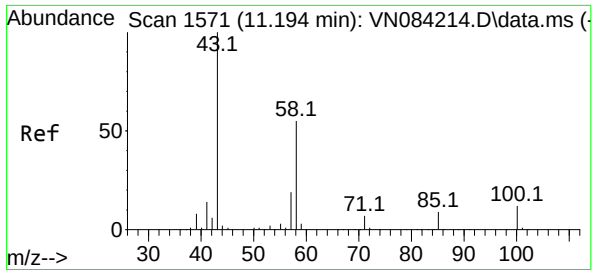
Tgt Ion: 63 Resp: 370569

Ion Ratio Lower Upper

63 100

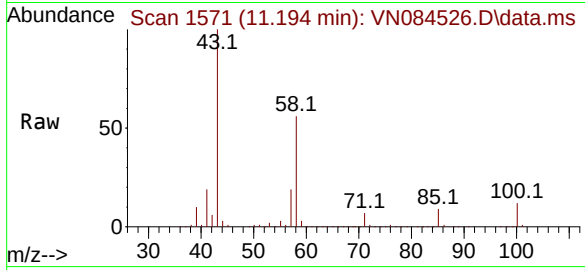
106 28.0 21.8 32.6





#59
2-Hexanone
Concen: 260.266 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

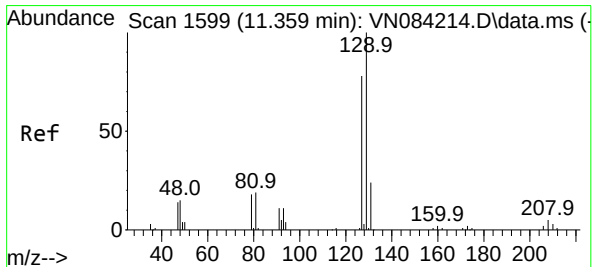
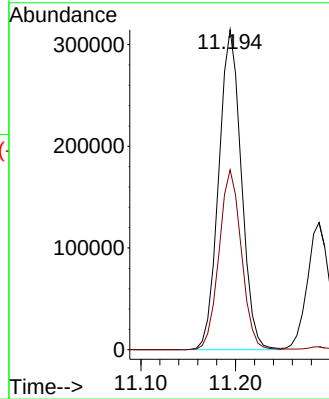
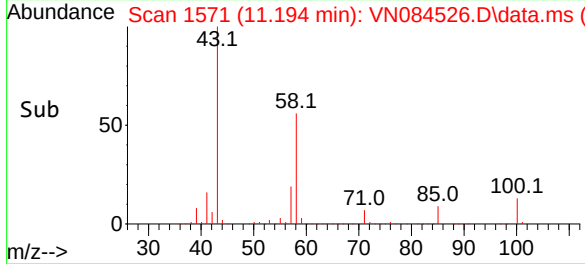
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 43 Resp: 521492
Ion Ratio Lower Upper
43 100
58 55.6 27.3 81.8

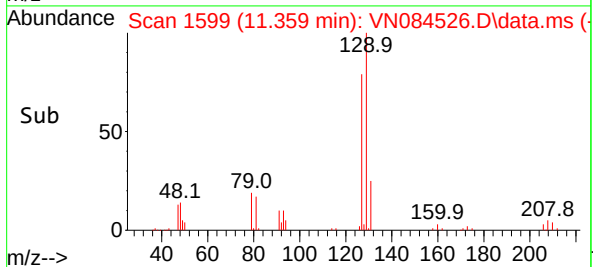
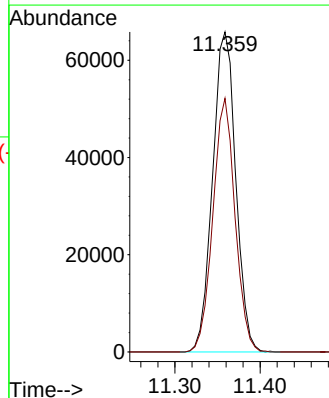
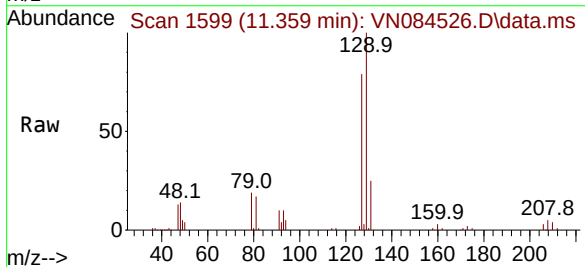
Manual Integrations
APPROVED

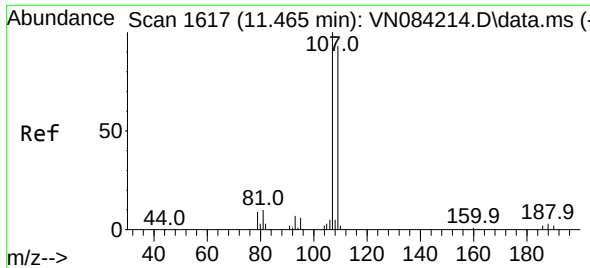
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#60
Dibromochloromethane
Concen: 56.184 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion:129 Resp: 124112
Ion Ratio Lower Upper
129 100
127 75.9 38.3 114.9





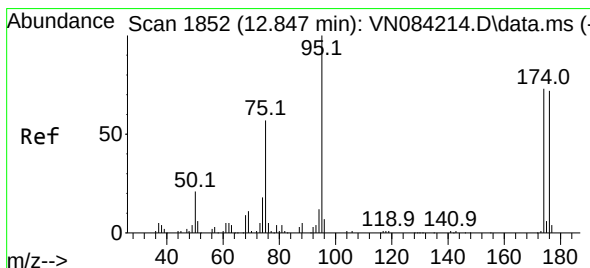
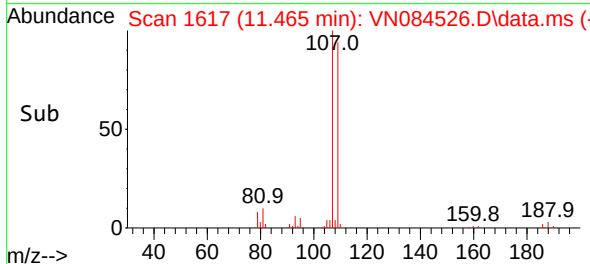
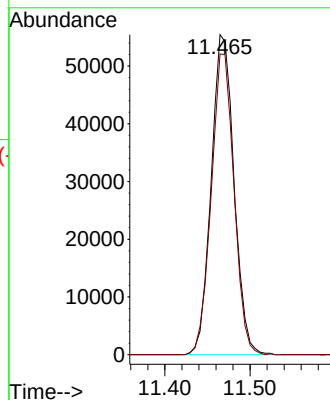
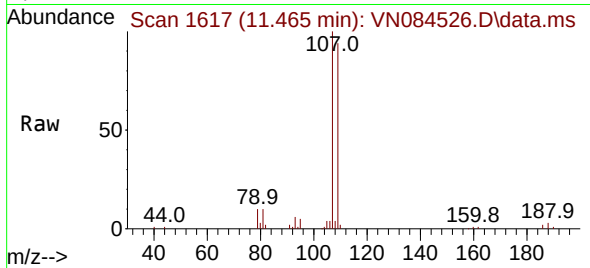
#61
1,2-Dibromoethane
Concen: 53.087 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 10313
Ion Ratio Lower Upper
107 100
109 93.5 75.4 113.0

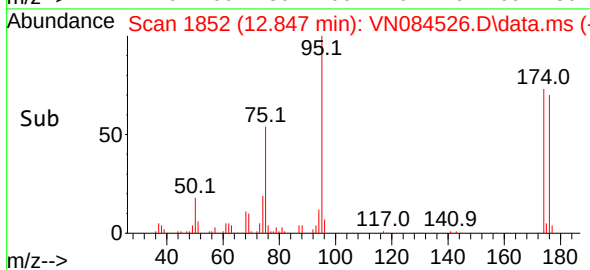
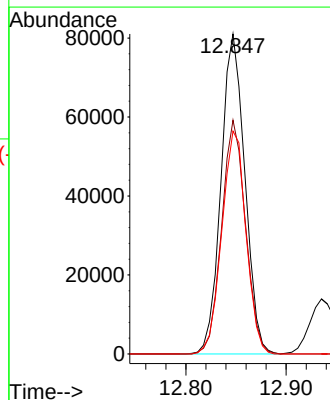
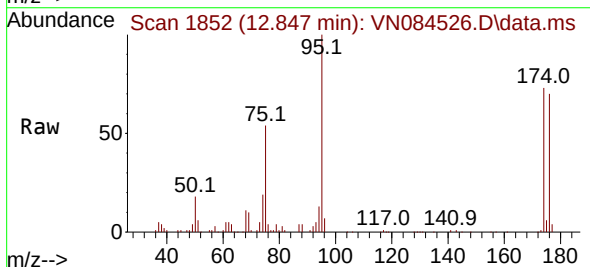
Manual Integrations
APPROVED

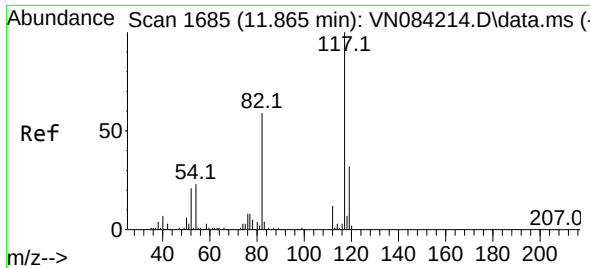
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#62
4-Bromofluorobenzene
Concen: 52.811 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

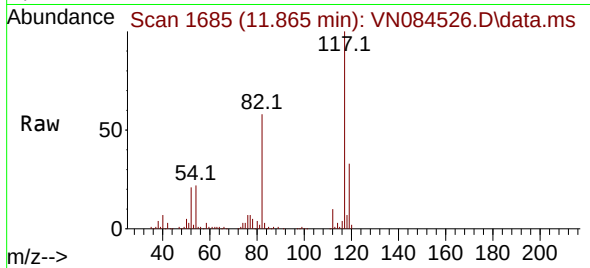
Tgt Ion: 95 Resp: 133768
Ion Ratio Lower Upper
95 100
174 73.1 0.0 145.2
176 70.5 0.0 140.0





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

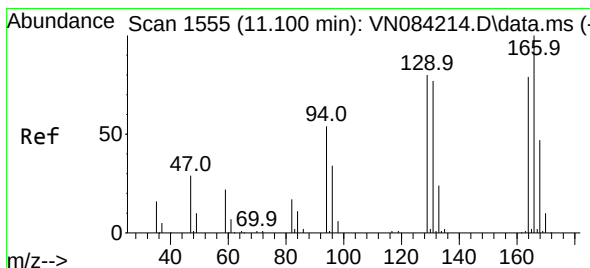
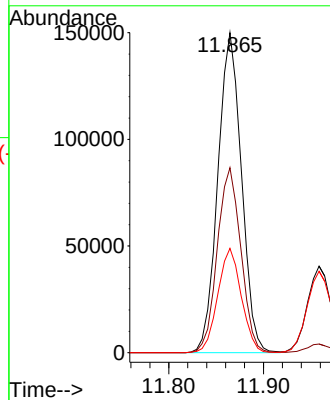
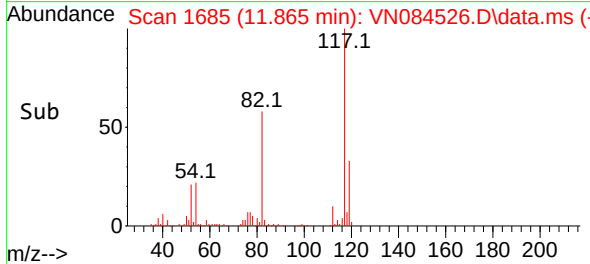
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:117 Resp: 260288
Ion Ratio Lower Upper
117 100
82 57.8 47.2 70.8
119 32.6 25.4 38.0

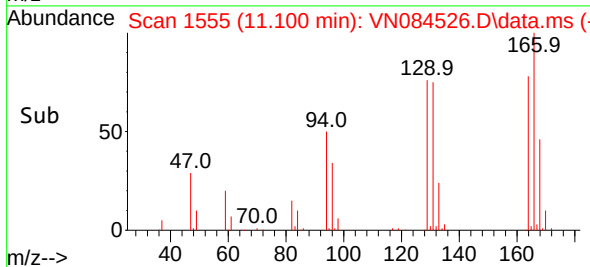
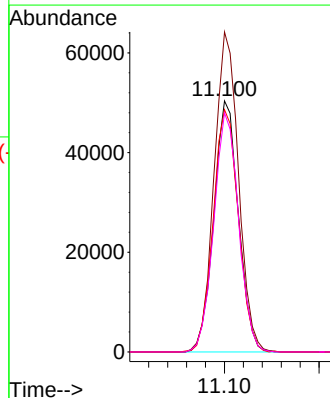
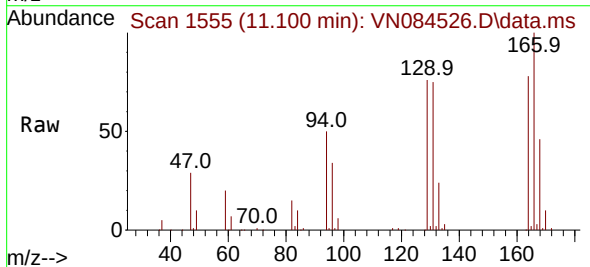
Manual Integrations
APPROVED

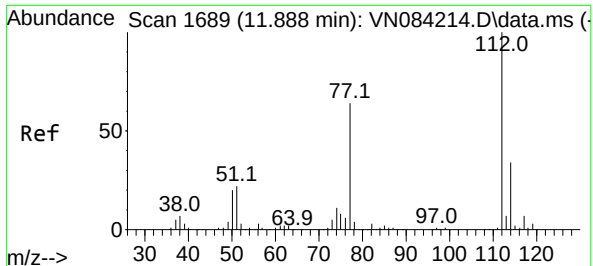
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#64
Tetrachloroethene
Concen: 50.022 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion:164 Resp: 90687
Ion Ratio Lower Upper
164 100
166 127.4 101.0 151.4
129 96.5 80.8 121.2
131 95.2 78.1 117.1





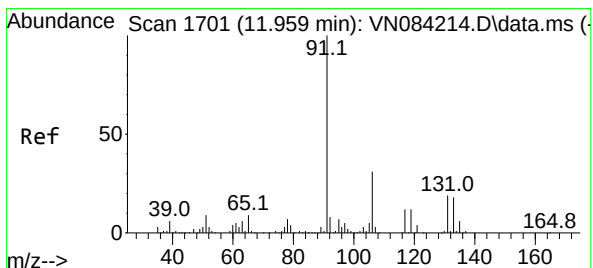
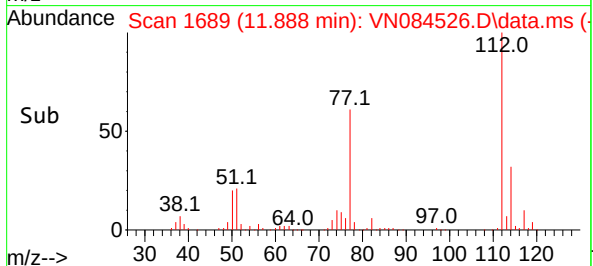
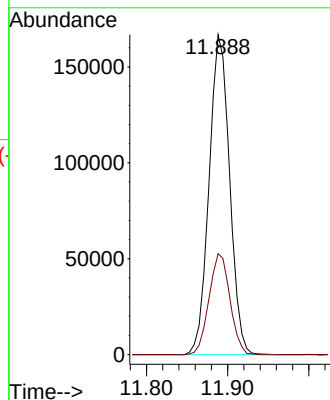
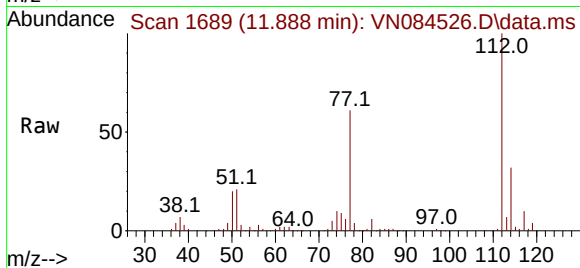
#65
Chlorobenzene
Concen: 50.731 ug/l
RT: 11.888 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 29277
Ion Ratio Lower Upper
112 100
114 31.5 27.0 40.6

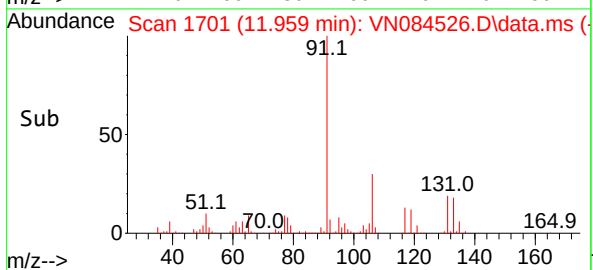
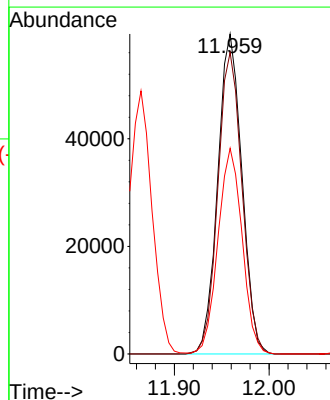
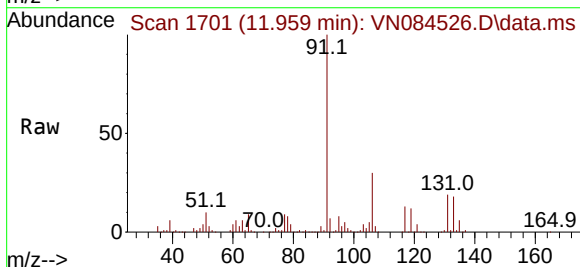
Manual Integrations
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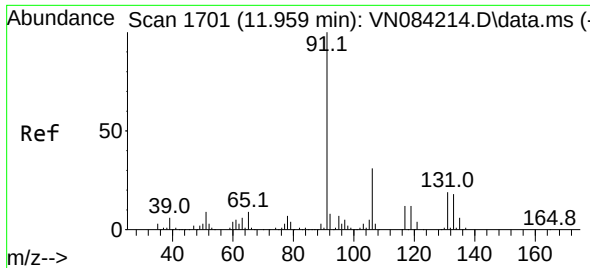
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 53.144 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

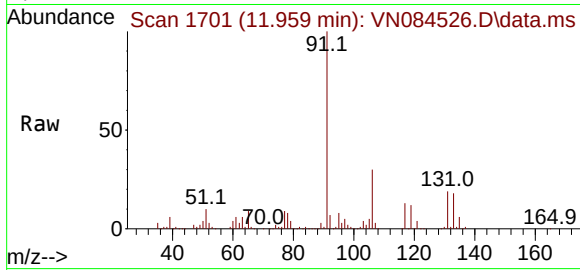
Tgt Ion:131 Resp: 105641
Ion Ratio Lower Upper
131 100
133 93.9 47.9 143.7
119 64.3 32.8 98.3





#67
Ethyl Benzene
Concen: 52.136 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

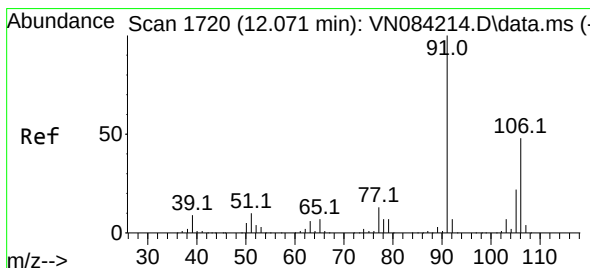
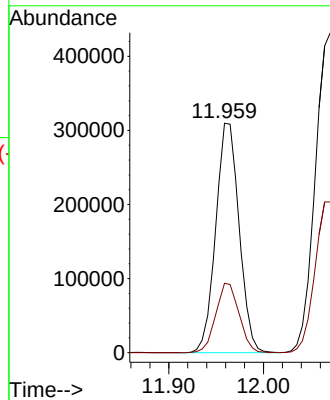
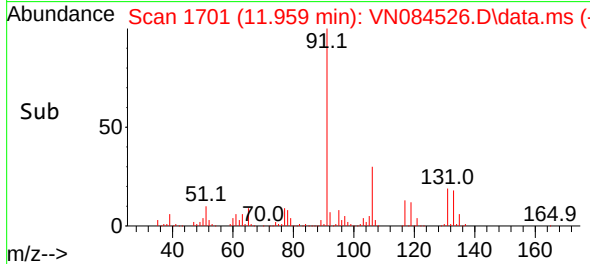
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 91 Resp: 532111
Ion Ratio Lower Upper
91 100
106 30.2 24.5 36.7

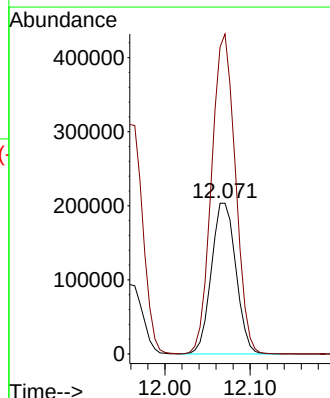
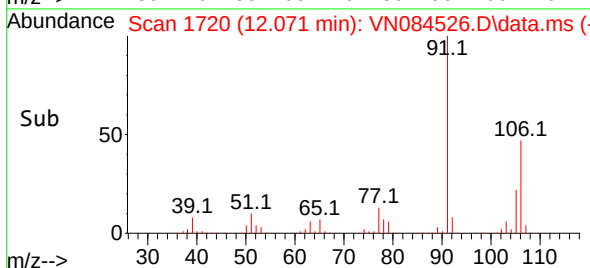
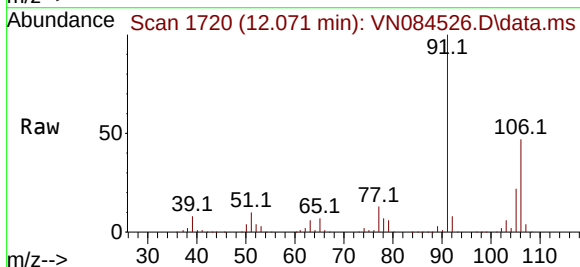
Manual Integrations
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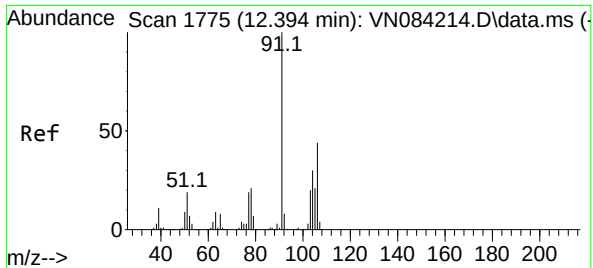
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#68
m/p-Xylenes
Concen: 108.094 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion:106 Resp: 408093
Ion Ratio Lower Upper
106 100
91 206.2 167.1 250.7





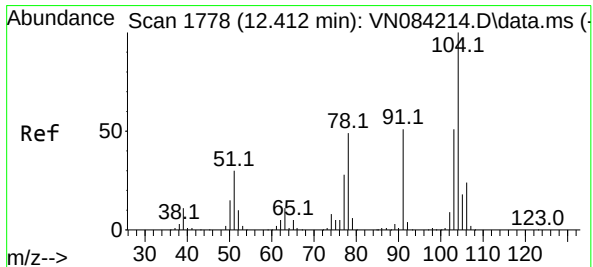
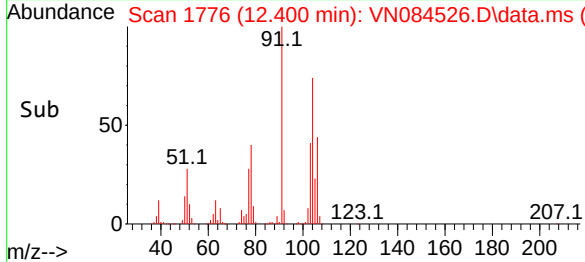
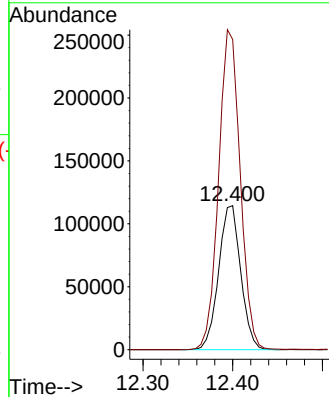
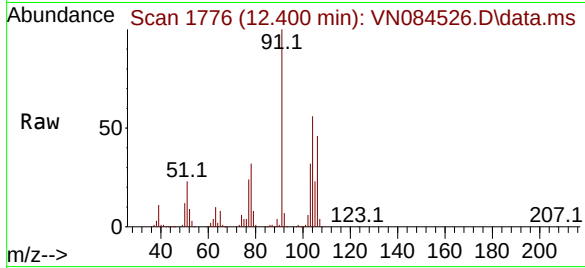
#69
o-Xylene
Concen: 54.776 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 195654
Ion Ratio Lower Upper
106 100
91 217.5 110.2 330.6

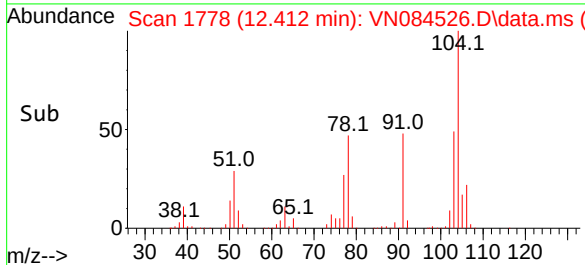
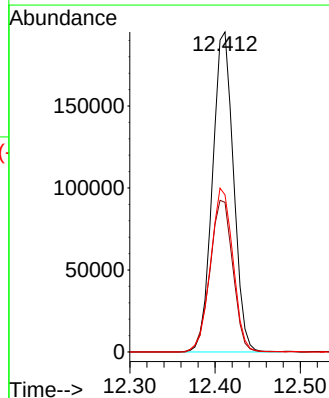
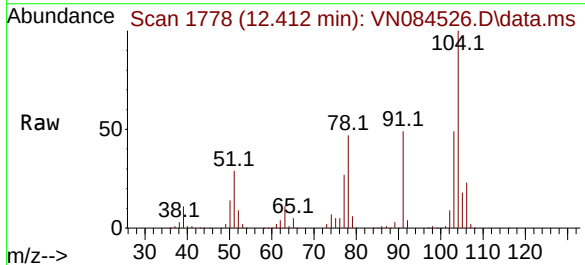
Manual Integrations
APPROVED

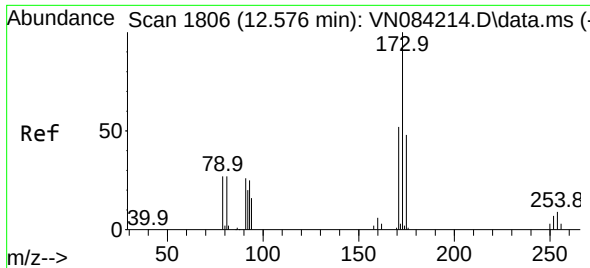
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#70
Styrene
Concen: 55.354 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

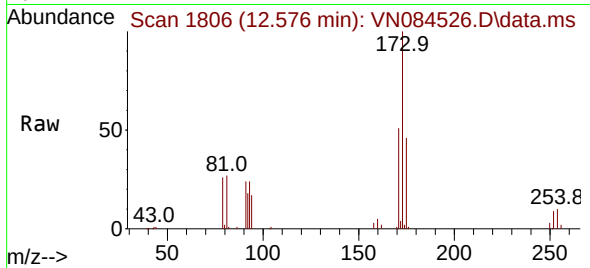
Tgt Ion:104 Resp: 334901
Ion Ratio Lower Upper
104 100
78 51.5 42.7 64.1
103 54.5 43.6 65.4





#71
Bromoform
Concen: 54.763 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

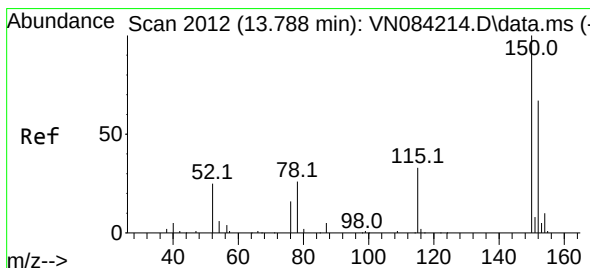
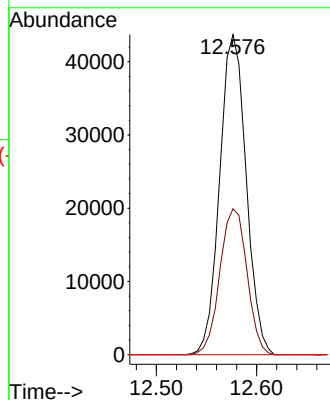
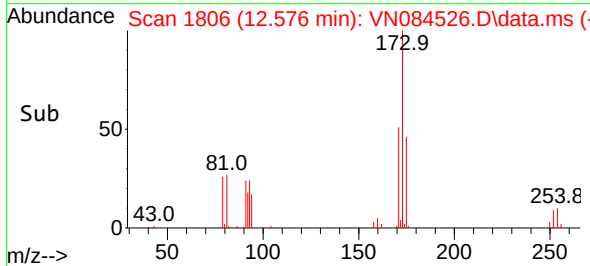
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



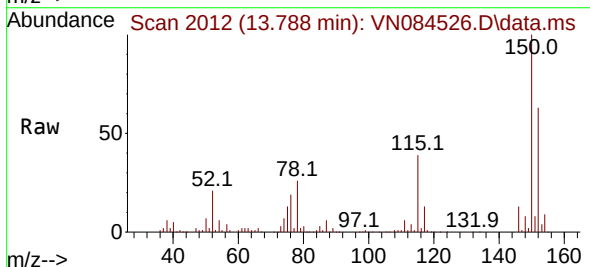
Tgt Ion:173 Resp: 8014
Ion Ratio Lower Upper
173 100
175 46.6 23.5 70.6
254 0.0 0.0 0.0

Manual Integrations
APPROVED

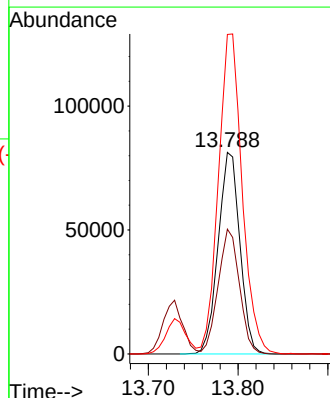
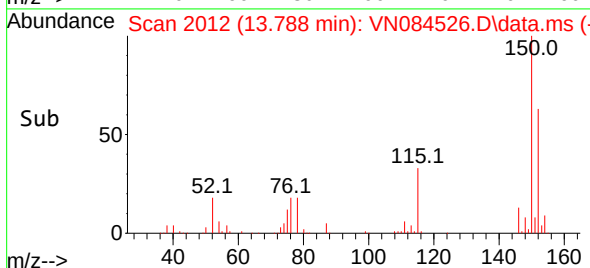
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

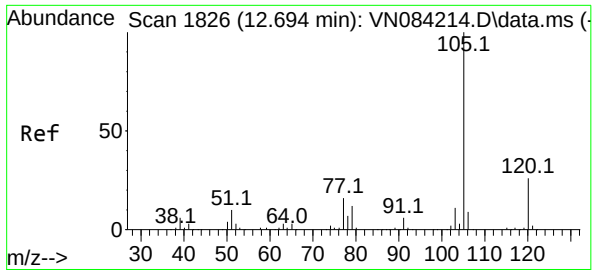


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13



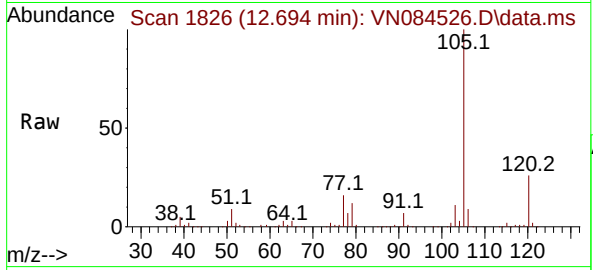
Tgt Ion:152 Resp: 136706
Ion Ratio Lower Upper
152 100
115 60.6 31.3 93.9
150 173.8 0.0 349.8





#73
Isopropylbenzene
Concen: 47.706 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

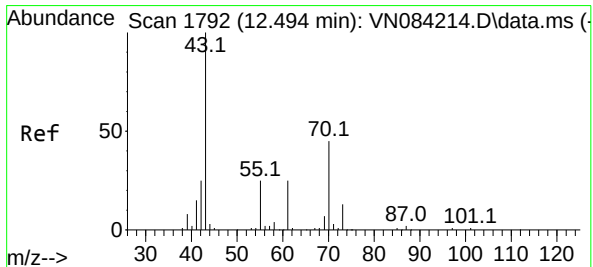
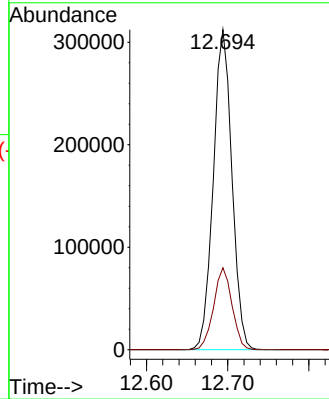
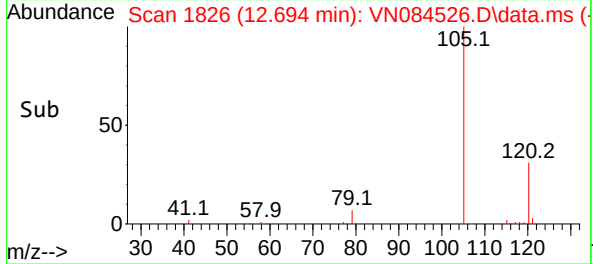
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:105 Resp: 49766
Ion Ratio Lower Upper
105 100
120 25.2 12.9 38.7

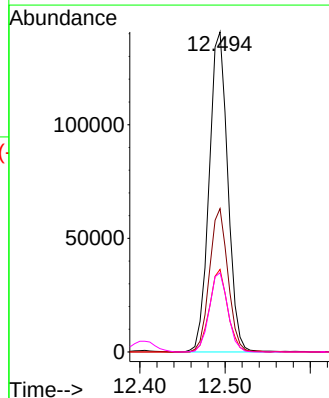
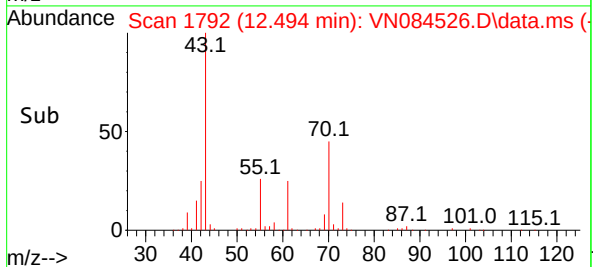
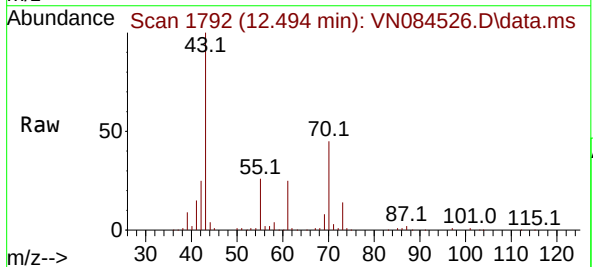
Manual Integrations
APPROVED

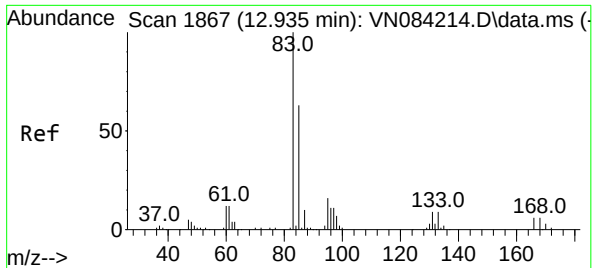
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#74
N-ethyl acetate
Concen: 45.322 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

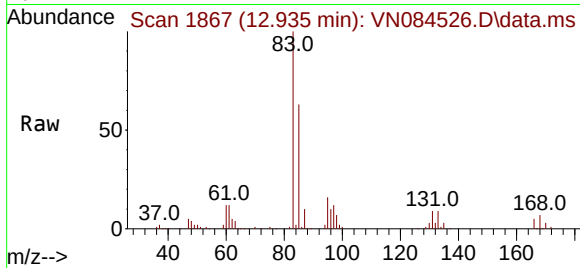
Tgt Ion: 43 Resp: 214096
Ion Ratio Lower Upper
43 100
70 44.3 34.4 51.6
55 25.4 19.6 29.4
61 24.4 19.6 29.4





#75
1,1,2,2-Tetrachloroethane
Concen: 47.998 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

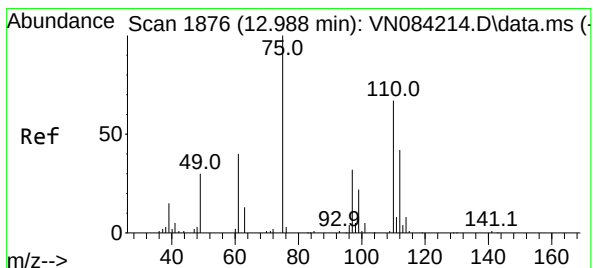
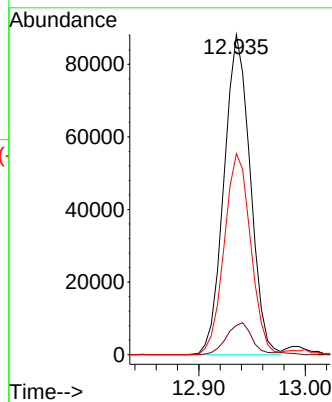
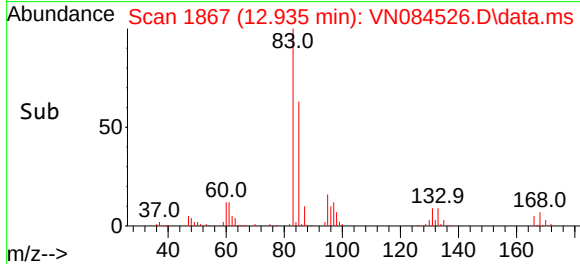
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 83 Resp: 15056
Ion Ratio Lower Upper
83 100
131 10.1 4.9 14.7
85 63.5 31.9 95.7

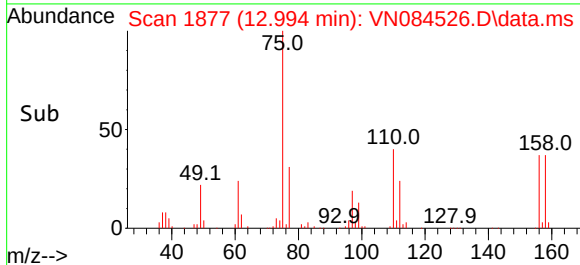
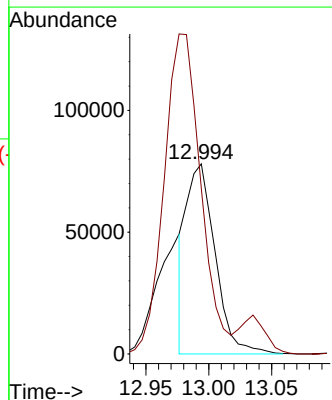
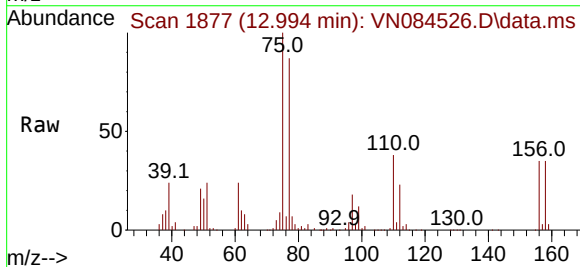
Manual Integrations
APPROVED

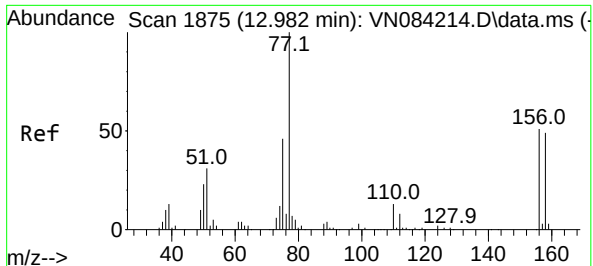
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#76
1,2,3-Trichloropropane
Concen: 44.613 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion: 75 Resp: 124511
Ion Ratio Lower Upper
75 100
77 213.8 96.9 290.7





#77

Bromobenzene

Concen: 47.134 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:156 Resp: 118604

Ion Ratio Lower Upper

156 100

77 224.4 115.1 345.3

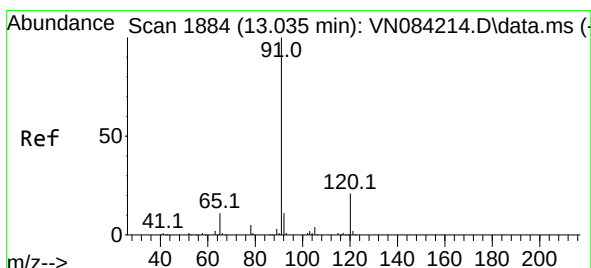
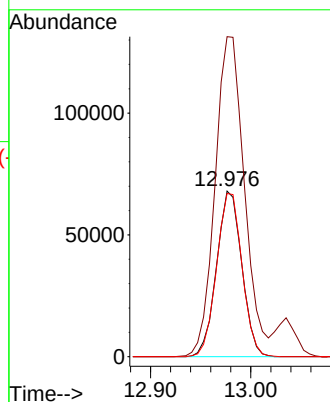
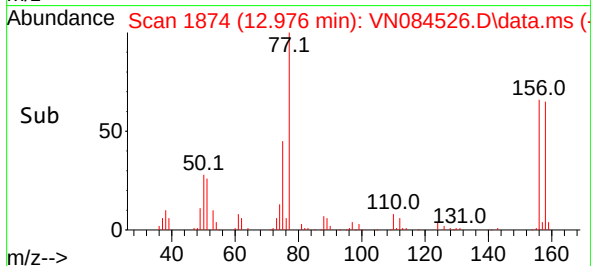
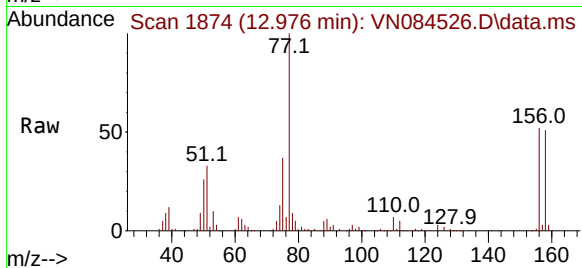
158 99.6 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#78

n-propylbenzene

Concen: 49.330 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084526.D

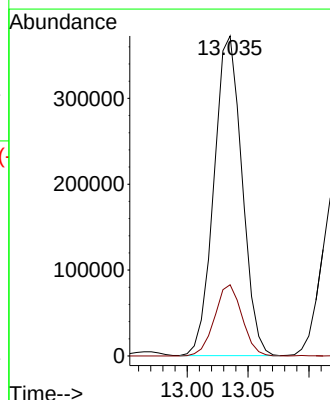
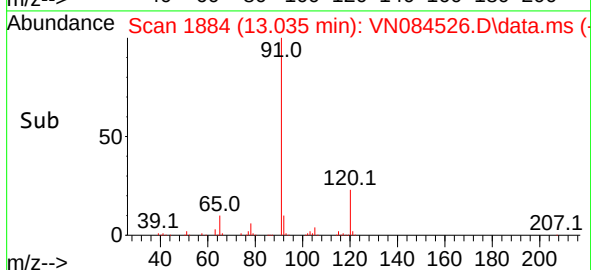
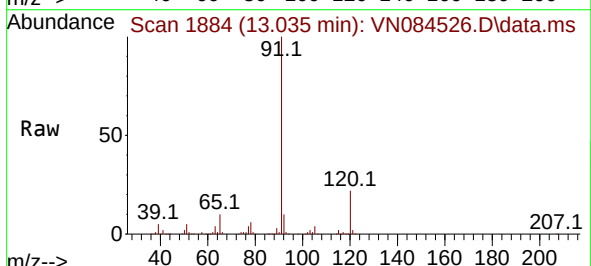
Acq: 25 Oct 2024 19:13

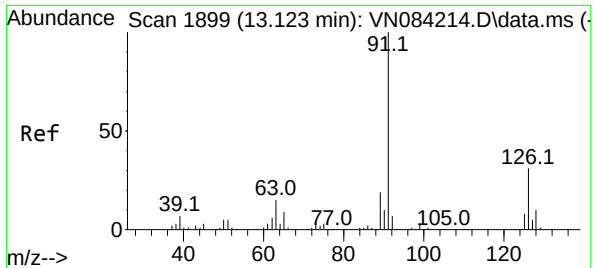
Tgt Ion: 91 Resp: 596232

Ion Ratio Lower Upper

91 100

120 21.8 10.8 32.4





#79

2-Chlorotoluene

Concen: 47.192 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 363962

Ion Ratio Lower Upper

91 100

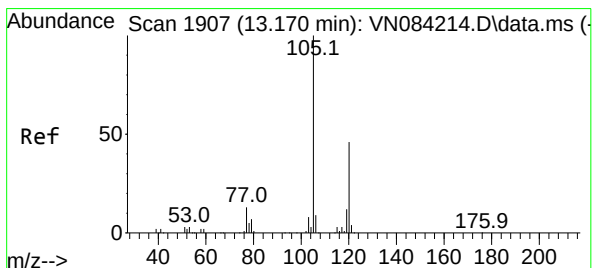
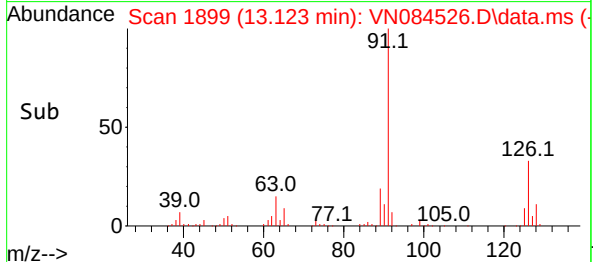
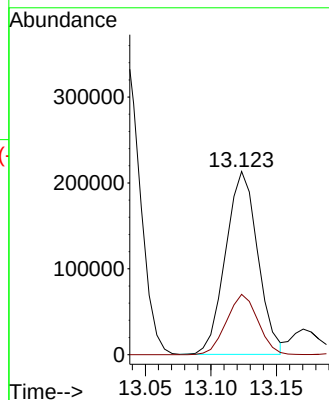
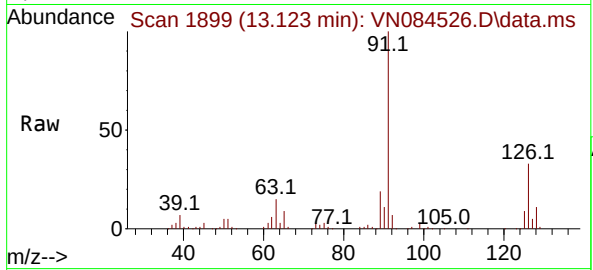
126 32.2 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#80

1,3,5-Trimethylbenzene

Concen: 50.034 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084526.D

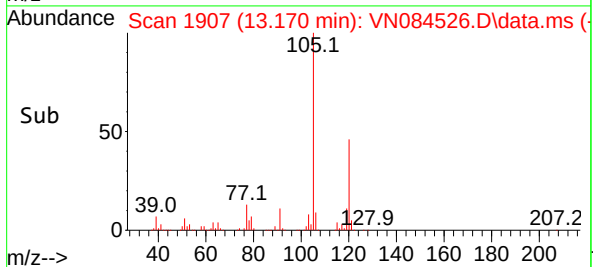
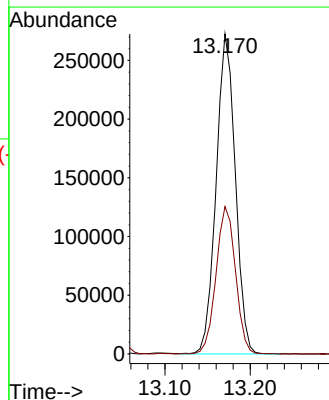
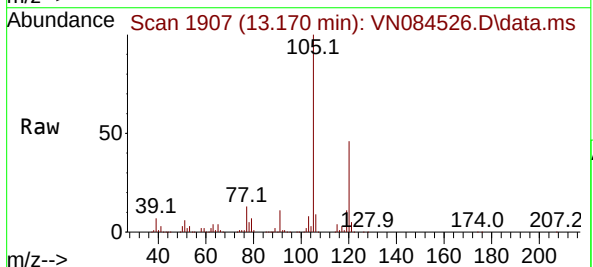
Acq: 25 Oct 2024 19:13

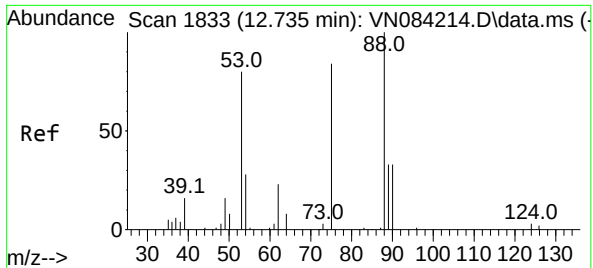
Tgt Ion:105 Resp: 425766

Ion Ratio Lower Upper

105 100

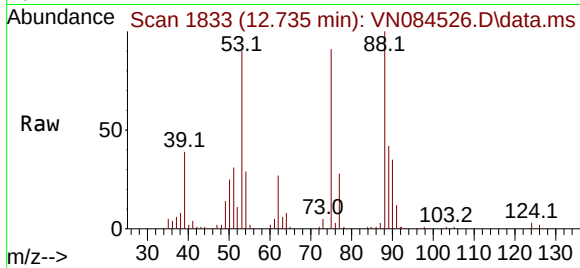
120 46.8 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 43.206 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

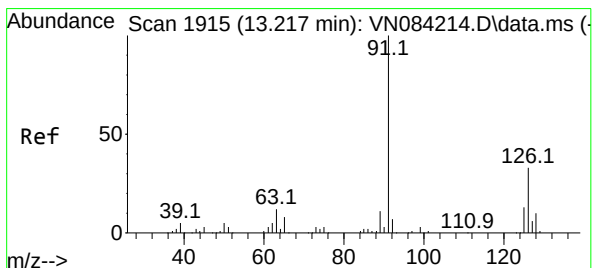
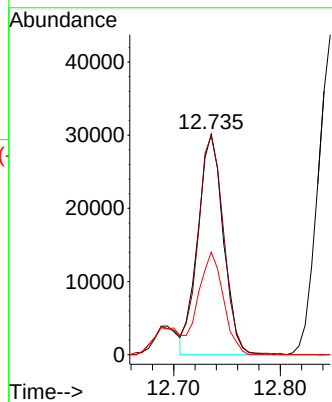
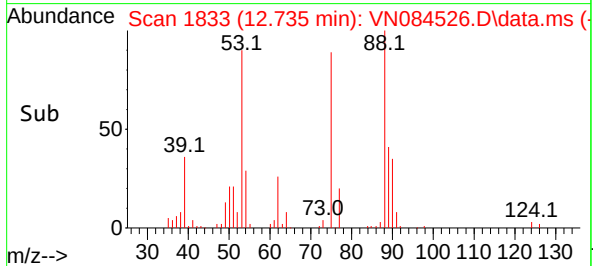
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 75 Resp: 50290
Ion Ratio Lower Upper
75 100
53 99.8 78.0 117.0
89 44.5 35.5 53.3

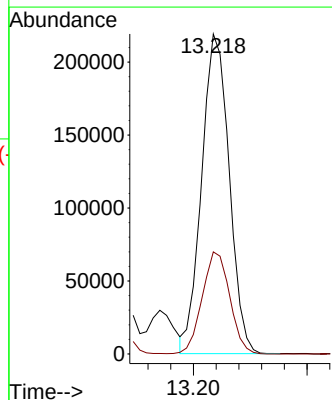
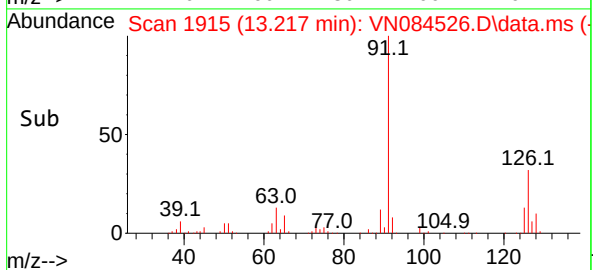
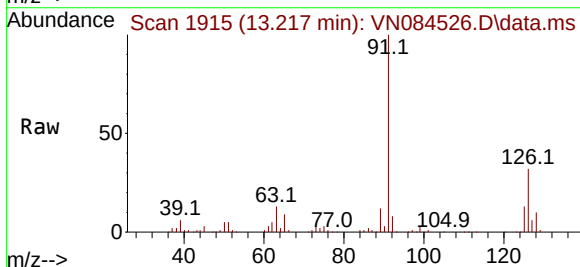
Manual Integrations
APPROVED

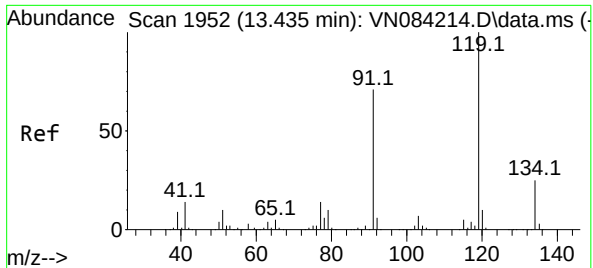
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#82
4-Chlorotoluene
Concen: 47.496 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

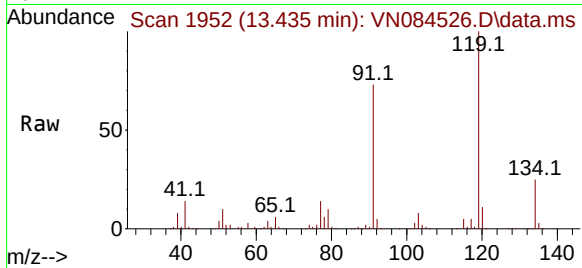
Tgt Ion: 91 Resp: 368750
Ion Ratio Lower Upper
91 100
126 32.0 15.7 47.1





#83
tert-Butylbenzene
Concen: 47.471 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

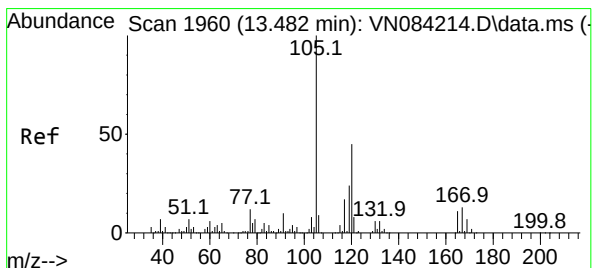
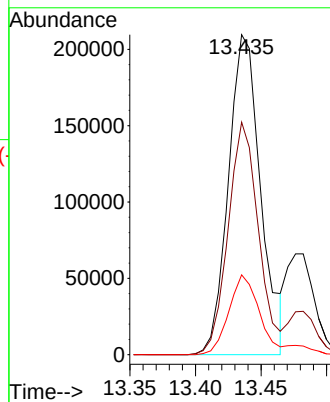
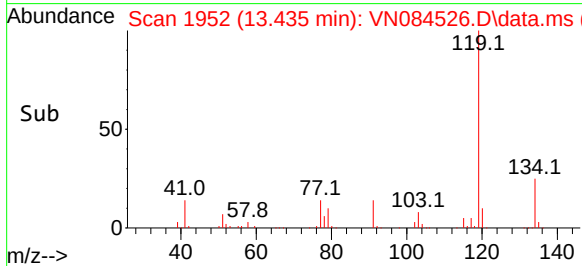
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:119 Resp: 359032
Ion Ratio Lower Upper
119 100
91 68.4 34.1 102.3
134 25.7 12.8 38.4

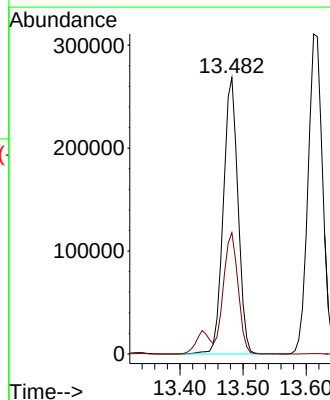
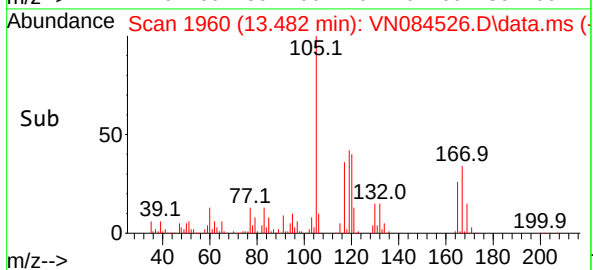
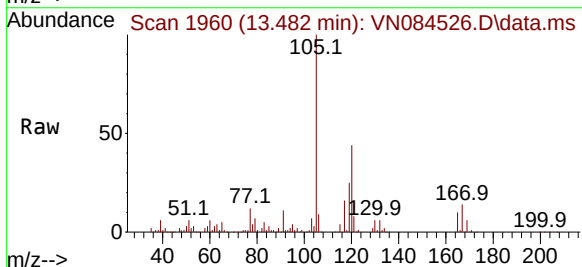
Manual Integrations
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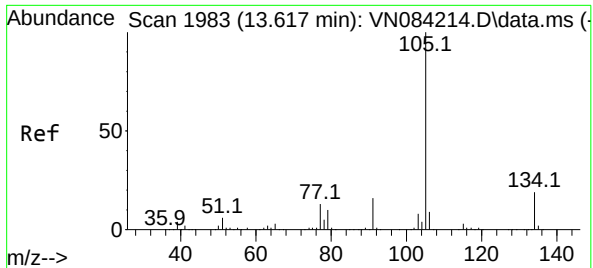
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#84
1,2,4-Trimethylbenzene
Concen: 50.510 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion:105 Resp: 432987
Ion Ratio Lower Upper
105 100
120 43.7 22.3 66.8





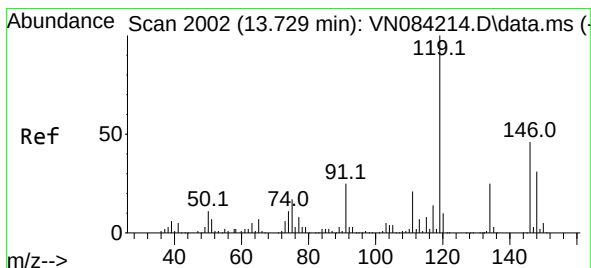
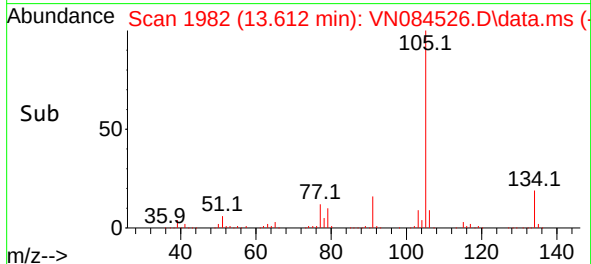
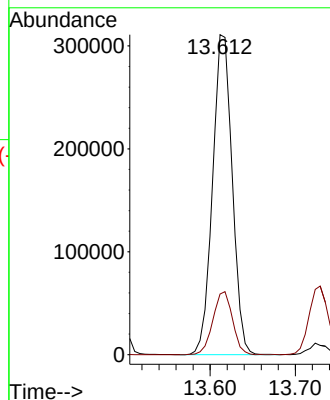
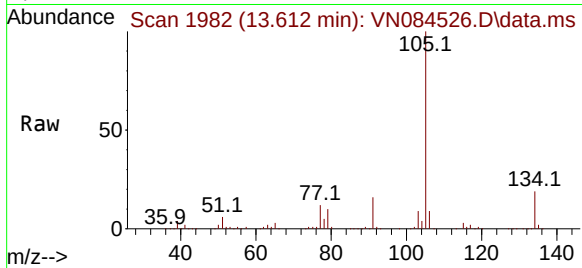
#85
 sec-Butylbenzene
 Concen: 49.306 ug/l
 RT: 13.612 min Scan# 1983
 Delta R.T. -0.006 min
 Lab File: VN084526.D
 Acq: 25 Oct 2024 19:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:105 Resp: 497624
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.8 29.4

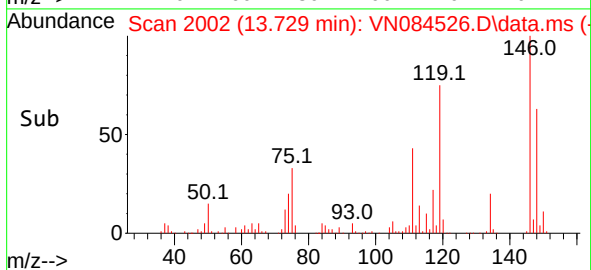
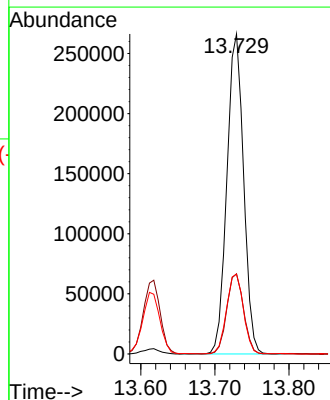
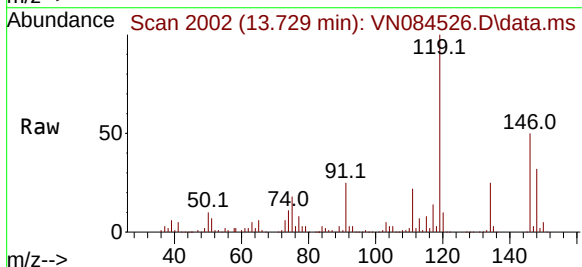
Manual Integrations
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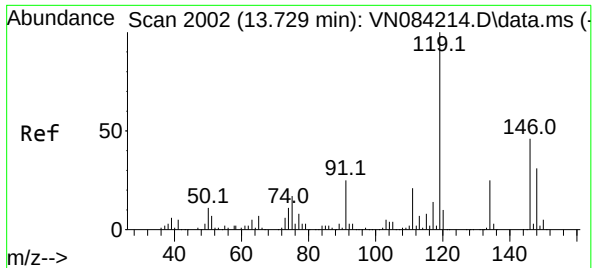
Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024



#86
 p-Isopropyltoluene
 Concen: 49.893 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN084526.D
 Acq: 25 Oct 2024 19:13

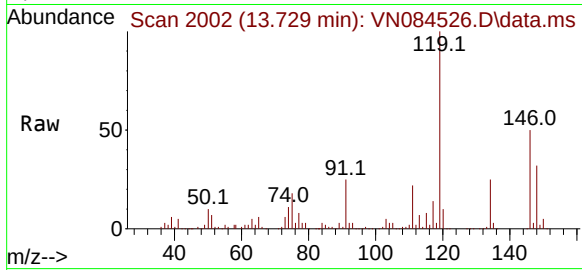
Tgt Ion:119 Resp: 416390
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.6 37.8
 91 25.1 12.4 37.2





#87
1,3-Dichlorobenzene
Concen: 47.055 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

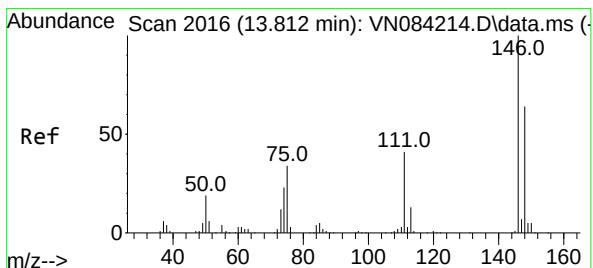
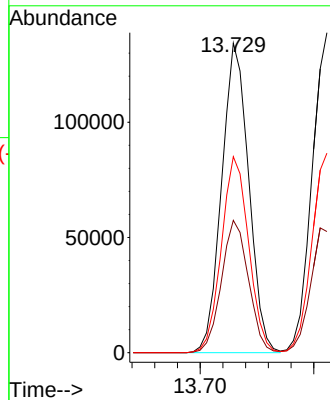
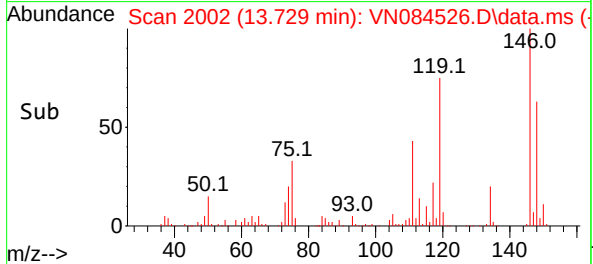
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:146 Resp: 222120
Ion Ratio Lower Upper
146 100
111 42.8 21.8 65.3
148 63.8 31.9 95.7

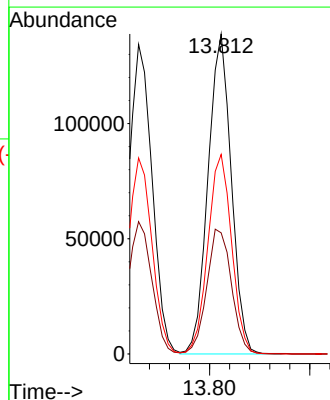
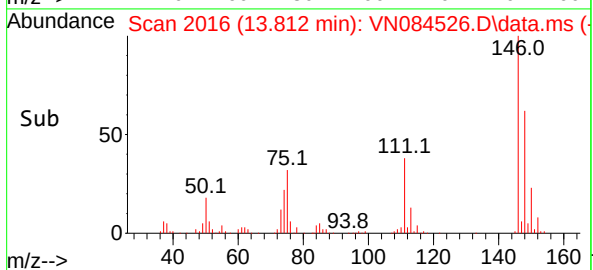
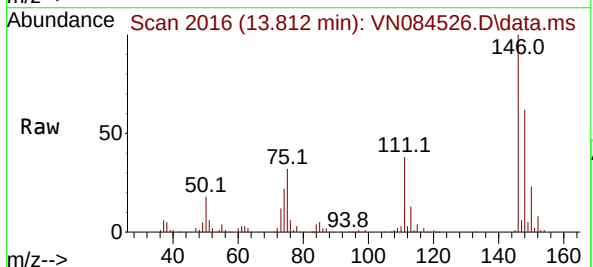
Manual Integrations
APPROVED

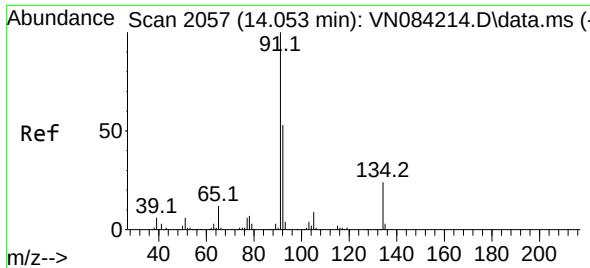
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#88
1,4-Dichlorobenzene
Concen: 46.984 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion:146 Resp: 223979
Ion Ratio Lower Upper
146 100
111 41.6 21.2 63.6
148 63.6 31.9 95.9





#89

n-Butylbenzene

Concen: 46.782 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

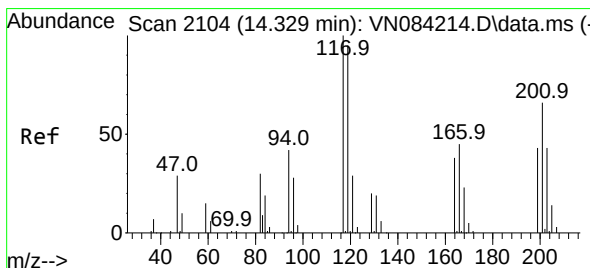
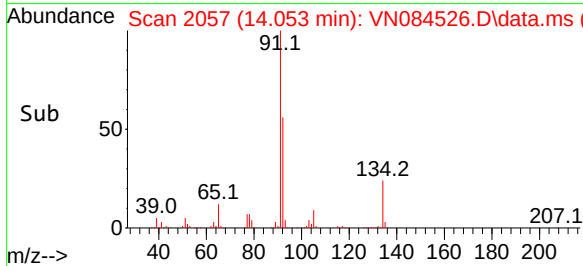
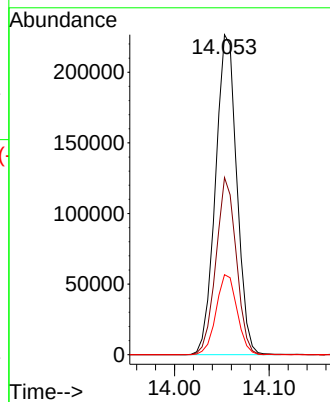
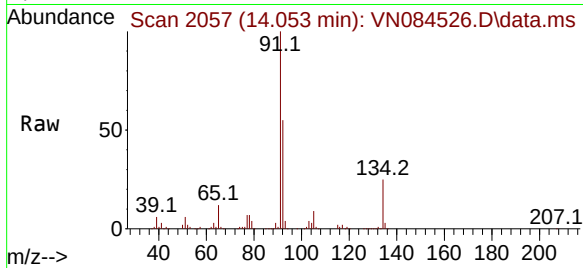
VSTDCCC050EC

Tgt Ion:	91	Resp:	35402
Ion Ratio	Lower	Upper	
91	100		
92	52.9	26.6	79.7
134	24.7	12.3	36.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#90

Hexachloroethane

Concen: 44.573 ug/l

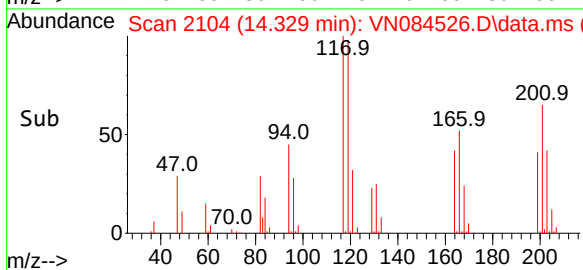
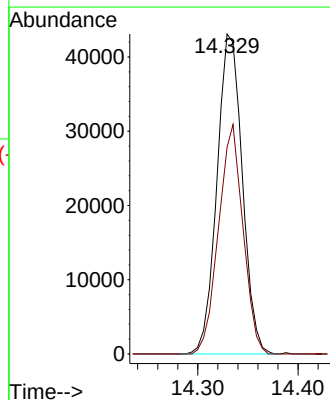
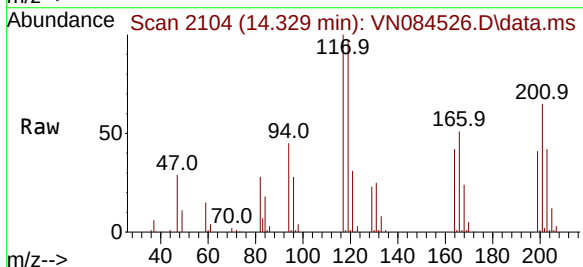
RT: 14.329 min Scan# 2104

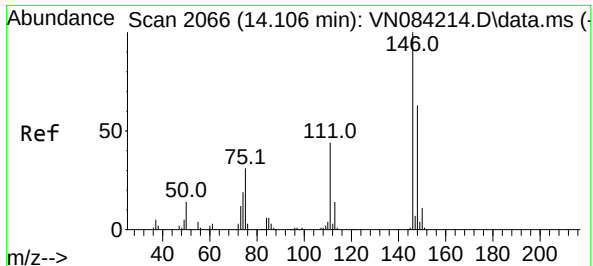
Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Tgt Ion:	117	Resp:	75508
Ion Ratio	Lower	Upper	
117	100		
201	69.2	34.4	103.2





#91

1,2-Dichlorobenzene

Concen: 47.263 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:146 Resp: 218768

Ion Ratio Lower Upper

146 100

111 43.3 22.0 66.0

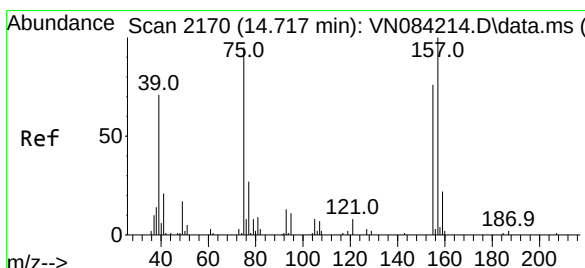
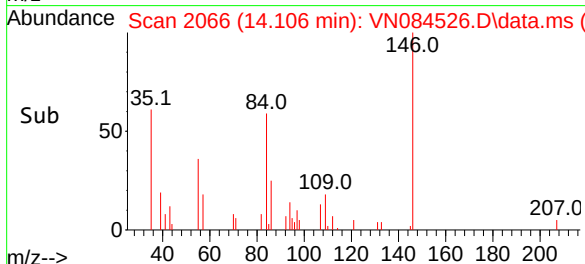
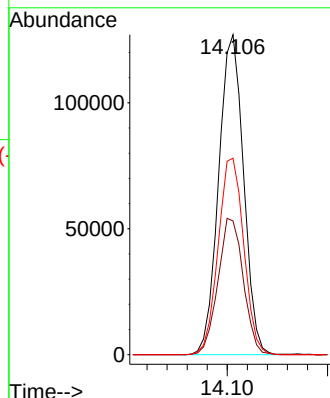
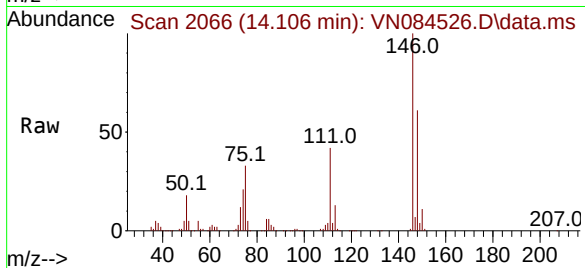
148 63.0 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 44.075 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

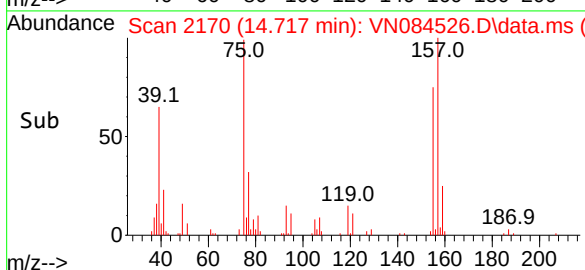
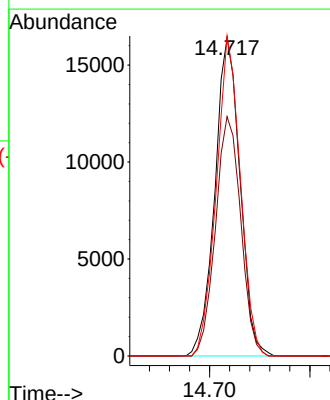
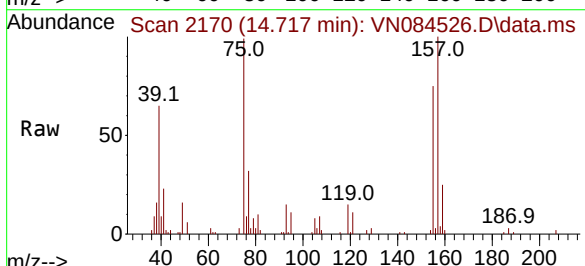
Tgt Ion: 75 Resp: 28530

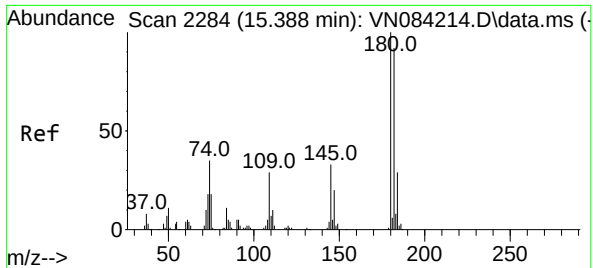
Ion Ratio Lower Upper

75 100

155 75.5 38.1 114.5

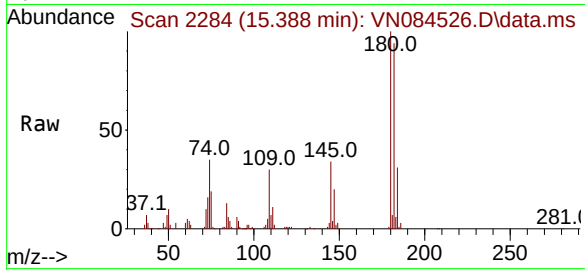
157 95.8 49.6 149.0





#93
1,2,4-Trichlorobenzene
Concen: 45.570 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

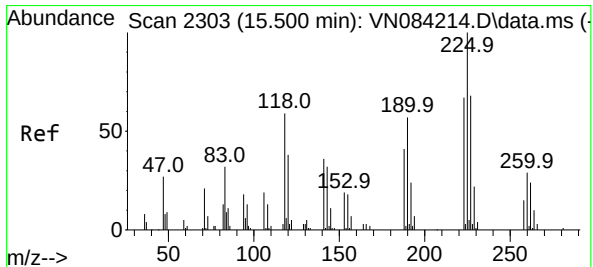
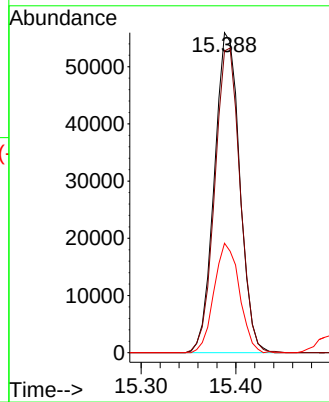
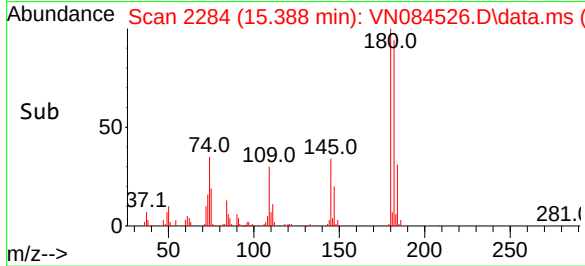
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:180 Resp: 103890
Ion Ratio Lower Upper
180 100
182 95.1 47.0 141.0
145 34.3 16.4 49.4

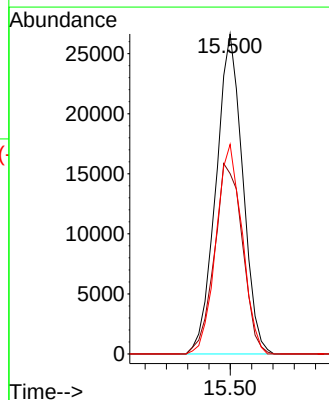
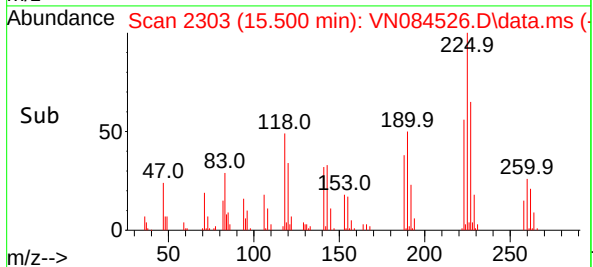
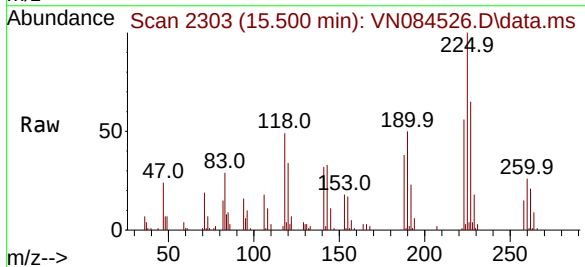
Manual Integrations
APPROVED

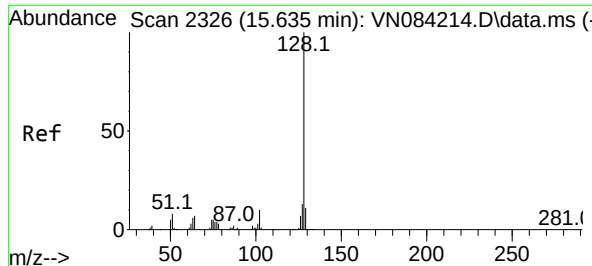
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#94
Hexachlorobutadiene
Concen: 40.733 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN084526.D
Acq: 25 Oct 2024 19:13

Tgt Ion:225 Resp: 46312
Ion Ratio Lower Upper
225 100
223 62.7 32.4 97.2
227 64.0 32.4 97.0





#95

Naphthalene

Concen: 44.152 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:128 Resp: 333714

Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

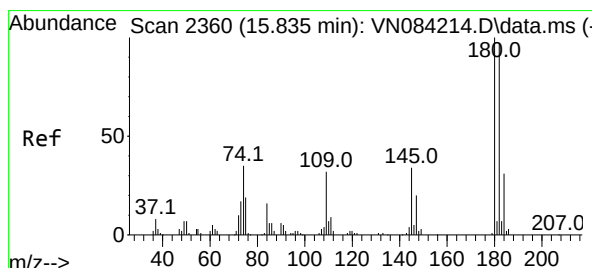
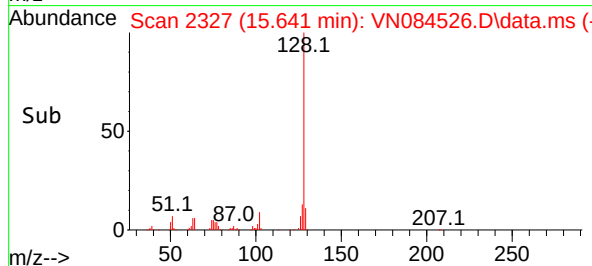
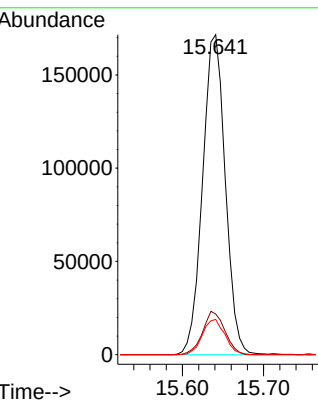
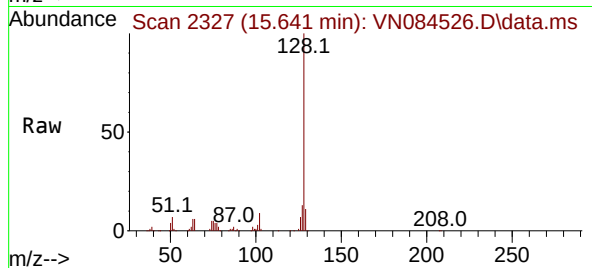
129 10.9 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#96

1,2,3-Trichlorobenzene

Concen: 45.202 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN084526.D

Acq: 25 Oct 2024 19:13

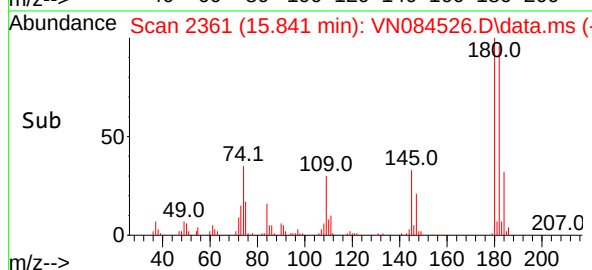
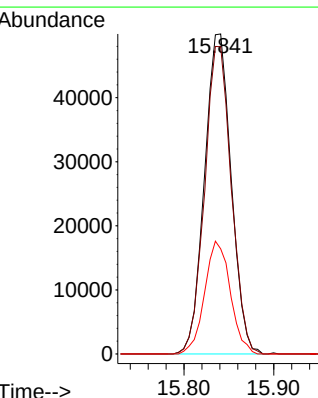
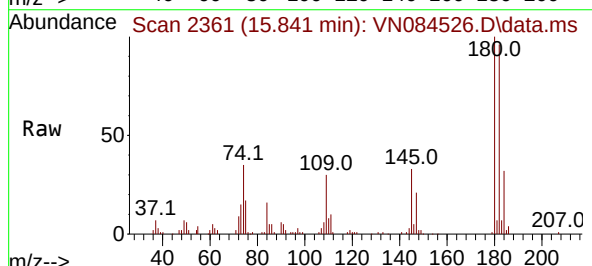
Tgt Ion:180 Resp: 103160

Ion Ratio Lower Upper

180 100

182 96.2 48.2 144.6

145 33.9 17.3 51.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084526.D
 Acq On : 25 Oct 2024 19:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 25 23:38:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	Pentafluorobenzene	1.000	1.000	0.0	95	0.00
2 T	Dichlorodifluoromethane	0.591	0.433	26.7#	67	0.00
3 P	Chloromethane	0.675	0.530	21.5	75	0.00
4 C	Vinyl Chloride	0.654	0.549	16.1#	78	0.00
5 T	Bromomethane	0.431	0.340	21.1	75	0.00
6 T	Chloroethane	0.468	0.372	20.5	85	0.00
7 T	Trichlorofluoromethane	1.019	0.971	4.7	87	0.00
8 T	Diethyl Ether	0.378	0.355	6.1	87	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.584	0.564	3.4	91	0.00
10 T	Methyl Iodide	0.752	0.703	6.5	83	0.00
11 T	Tert butyl alcohol	0.122	0.106	13.1	82	0.00
12 CM	1,1-Dichloroethene	0.563	0.525	6.7#	85	0.00
13 T	Acrolein	0.140	0.125	10.7	84	0.00
14 T	Allyl chloride	0.978	0.840	14.1	80	0.00
15 T	Acrylonitrile	0.309	0.306	1.0	92	0.00
16 T	Acetone	0.318	0.256	19.5	71	0.00
17 T	Carbon Disulfide	1.782	1.370	23.1	76	0.00
18 T	Methyl Acetate	0.694	0.689	0.7	93	0.00
19 T	Methyl tert-butyl Ether	1.900	1.913	-0.7	89	0.00
20 T	Methylene Chloride	0.647	0.638	1.4	93	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.563	4.6	86	0.00
22 T	Diisopropyl ether	2.022	2.068	-2.3	91	0.00
23 T	Vinyl Acetate	1.500	1.476	1.6	85	0.00
24 P	1,1-Dichloroethane	1.131	1.153	-1.9	92	0.00
25 T	2-Butanone	0.434	0.401	7.6	84	0.00
26 T	2,2-Dichloropropane	1.020	0.919	9.9	81	0.00
27 T	cis-1,2-Dichloroethene	0.713	0.727	-2.0	93	0.00
28 T	Bromochloromethane	0.505	0.499	1.2	96	0.00
29 T	Tetrahydrofuran	0.268	0.267	0.4	90	0.00
30 C	Chloroform	1.175	1.223	-4.1#	97	0.00
31 T	Cyclohexane	1.098	0.925	15.8	82	0.00
32 T	1,1,1-Trichloroethane	1.055	1.069	-1.3	92	0.00
33 S	1,2-Dichloroethane-d4	0.741	0.736	0.7	95	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35 S	Dibromofluoromethane	0.330	0.344	-4.2	100	0.00
36 T	1,1-Dichloropropene	0.479	0.477	0.4	88	0.00
37 T	Ethyl Acetate	0.491	0.490	0.2	92	0.00
38 T	Carbon Tetrachloride	0.525	0.531	-1.1	91	0.00
39 T	Methylcyclohexane	0.533	0.498	6.6	80	0.00
40 TM	Benzene	1.492	1.515	-1.5	92	0.00
41 T	Methacrylonitrile	0.267	0.273	-2.2	90	0.00
42 TM	1,2-Dichloroethane	0.506	0.517	-2.2	92	0.00
43 T	Isopropyl Acetate	0.962	0.813	15.5	85	0.00
44 TM	Trichloroethene	0.348	0.352	-1.1	92	0.00
45 C	1,2-Dichloropropane	0.353	0.380	-7.6#	96	0.00
46 T	Dibromomethane	0.238	0.264	-10.9	96	0.00
47 T	Bromodichloromethane	0.529	0.565	-6.8	96	0.00
48 T	Methyl methacrylate	0.383	0.384	-0.3	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084526.D
 Acq On : 25 Oct 2024 19:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 25 23:38:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	1,4-Dioxane	0.007	0.007	0.0	90	0.00
50 S	Toluene-d8	1.213	1.245	-2.6	94	0.00
51 T	4-Methyl-2-Pentanone	0.468	0.495	-5.8	92	0.00
52 CM	Toluene	0.910	0.953	-4.7#	93	0.00
53 T	t-1,3-Dichloropropene	0.539	0.562	-4.3	90	0.00
54 T	cis-1,3-Dichloropropene	0.580	0.600	-3.4	89	0.00
55 T	1,1,2-Trichloroethane	0.326	0.358	-9.8	96	0.00
56 T	Ethyl methacrylate	0.537	0.576	-7.3	90	0.00
57 T	1,3-Dichloropropane	0.583	0.627	-7.5	96	0.00
58 T	2-Chloroethyl Vinyl ether	0.249	0.259	-4.0	87	0.00
59 T	2-Hexanone	0.349	0.364	-4.3	89	0.00
60 T	Dibromochloromethane	0.385	0.433	-12.5	98	0.00
61 T	1,2-Dibromoethane	0.339	0.360	-6.2	95	0.00
62 S	4-Bromofluorobenzene	0.442	0.467	-5.7	97	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64 T	Tetrachloroethene	0.348	0.348	0.0	95	0.00
65 PM	Chlorobenzene	1.109	1.125	-1.4	94	0.00
66 T	1,1,1,2-Tetrachloroethane	0.382	0.406	-6.3	99	0.00
67 C	Ethyl Benzene	1.961	2.044	-4.2#	95	0.00
68 T	m/p-Xylenes	0.725	0.784	-8.1	96	0.00
69 T	o-Xylene	0.686	0.752	-9.6	96	0.00
70 T	Styrene	1.162	1.287	-10.8	96	0.00
71 P	Bromoform	0.281	0.308	-9.6	96	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73 T	Isopropylbenzene	3.815	3.640	4.6	94	0.00
74 T	N-amyl acetate	1.728	1.566	9.4	90	0.00
75 P	1,1,2,2-Tetrachloroethane	1.147	1.101	4.0	100	0.00
76 T	1,2,3-Trichloropropane	1.021	0.911	10.8	87	0.00
77 T	Bromobenzene	0.920	0.868	5.7	98	0.00
78 T	n-propylbenzene	4.421	4.361	1.4	95	0.00
79 T	2-Chlorotoluene	2.821	2.662	5.6	95	0.00
80 T	1,3,5-Trimethylbenzene	3.112	3.114	-0.1	96	0.00
81 T	trans-1,4-Dichloro-2-butene	0.426	0.368	13.6	87	0.00
82 T	4-Chlorotoluene	2.840	2.697	5.0	95	0.00
83 T	tert-Butylbenzene	2.766	2.626	5.1	93	0.00
84 T	1,2,4-Trimethylbenzene	3.135	3.167	-1.0	96	0.00
85 T	sec-Butylbenzene	3.691	3.640	1.4	94	0.00
86 T	p-Isopropyltoluene	3.052	3.046	0.2	93	0.00
87 T	1,3-Dichlorobenzene	1.727	1.625	5.9	97	0.00
88 T	1,4-Dichlorobenzene	1.744	1.638	6.1	98	0.00
89 T	n-Butylbenzene	2.768	2.590	6.4	90	0.00
90 T	Hexachloroethane	0.620	0.552	11.0	93	0.00
91 T	1,2-Dichlorobenzene	1.693	1.600	5.5	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.209	11.8	94	0.00
93 T	1,2,4-Trichlorobenzene	0.834	0.760	8.9	87	0.00
94 T	Hexachlorobutadiene	0.416	0.339	18.5	91	0.00
95 T	Naphthalene	2.764	2.441	11.7	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084526.D
Acq On : 25 Oct 2024 19:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 25 23:38:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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)
96 T	1,2,3-Trichlorobenzene	0.835	0.755	9.6	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084526.D
 Acq On : 25 Oct 2024 19:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 25 23:38:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	Pentafluorobenzene	50.000	50.000	0.0	95	0.00
2 T	Dichlorodifluoromethane	50.000	36.594	26.8#	67	0.00
3 P	Chloromethane	50.000	39.218	21.6	75	0.00
4 C	Vinyl Chloride	50.000	41.975	16.0#	78	0.00
5 T	Bromomethane	50.000	39.426	21.1	75	0.00
6 T	Chloroethane	50.000	39.749	20.5	85	0.00
7 T	Trichlorofluoromethane	50.000	47.655	4.7	87	0.00
8 T	Diethyl Ether	50.000	47.048	5.9	87	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.278	3.4	91	0.00
10 T	Methyl Iodide	50.000	46.747	6.5	83	0.00
11 T	Tert butyl alcohol	250.000	216.174	13.5	82	0.00
12 CM	1,1-Dichloroethene	50.000	46.634	6.7#	85	0.00
13 T	Acrolein	250.000	222.928	10.8	84	0.00
14 T	Allyl chloride	50.000	42.957	14.1	80	0.00
15 T	Acrylonitrile	250.000	248.067	0.8	92	0.00
16 T	Acetone	250.000	200.799	19.7	71	0.00
17 T	Carbon Disulfide	50.000	38.442	23.1	76	0.00
18 T	Methyl Acetate	50.000	49.611	0.8	93	0.00
19 T	Methyl tert-butyl Ether	50.000	50.335	-0.7	89	0.00
20 T	Methylene Chloride	50.000	49.288	1.4	93	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.709	4.6	86	0.00
22 T	Diisopropyl ether	50.000	51.132	-2.3	91	0.00
23 T	Vinyl Acetate	250.000	245.982	1.6	85	0.00
24 P	1,1-Dichloroethane	50.000	50.989	-2.0	92	0.00
25 T	2-Butanone	250.000	231.376	7.4	84	0.00
26 T	2,2-Dichloropropane	50.000	45.038	9.9	81	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.007	-2.0	93	0.00
28 T	Bromochloromethane	50.000	49.424	1.2	96	0.00
29 T	Tetrahydrofuran	250.000	248.934	0.4	90	0.00
30 C	Chloroform	50.000	52.045	-4.1#	97	0.00
31 T	Cyclohexane	50.000	42.106	15.8	82	0.00
32 T	1,1,1-Trichloroethane	50.000	50.640	-1.3	92	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.644	0.7	95	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35 S	Dibromofluoromethane	50.000	52.217	-4.4	100	0.00
36 T	1,1-Dichloropropene	50.000	49.831	0.3	88	0.00
37 T	Ethyl Acetate	50.000	49.906	0.2	92	0.00
38 T	Carbon Tetrachloride	50.000	50.544	-1.1	91	0.00
39 T	Methylcyclohexane	50.000	46.735	6.5	80	0.00
40 TM	Benzene	50.000	50.775	-1.5	92	0.00
41 T	Methacrylonitrile	50.000	51.145	-2.3	90	0.00
42 TM	1,2-Dichloroethane	50.000	51.069	-2.1	92	0.00
43 T	Isopropyl Acetate	50.000	42.271	15.5	85	0.00
44 TM	Trichloroethene	50.000	50.453	-0.9	92	0.00
45 C	1,2-Dichloropropane	50.000	53.889	-7.8#	96	0.00
46 T	Dibromomethane	50.000	55.510	-11.0	96	0.00
47 T	Bromodichloromethane	50.000	53.371	-6.7	96	0.00
48 T	Methyl methacrylate	50.000	50.076	-0.2	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084526.D
 Acq On : 25 Oct 2024 19:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 25 23:38:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 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	1,4-Dioxane	1000.000	986.815	1.3	90	0.00
50 S	Toluene-d8	50.000	51.332	-2.7	94	0.00
51 T	4-Methyl-2-Pentanone	250.000	264.775	-5.9	92	0.00
52 CM	Toluene	50.000	52.357	-4.7#	93	0.00
53 T	t-1,3-Dichloropropene	50.000	52.078	-4.2	90	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.711	-3.4	89	0.00
55 T	1,1,2-Trichloroethane	50.000	54.831	-9.7	96	0.00
56 T	Ethyl methacrylate	50.000	53.712	-7.4	90	0.00
57 T	1,3-Dichloropropane	50.000	53.769	-7.5	96	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	259.663	-3.9	87	0.00
59 T	2-Hexanone	250.000	260.266	-4.1	89	0.00
60 T	Dibromochloromethane	50.000	56.184	-12.4	98	0.00
61 T	1,2-Dibromoethane	50.000	53.087	-6.2	95	0.00
62 S	4-Bromofluorobenzene	50.000	52.811	-5.6	97	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64 T	Tetrachloroethene	50.000	50.022	-0.0	95	0.00
65 PM	Chlorobenzene	50.000	50.731	-1.5	94	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.144	-6.3	99	0.00
67 C	Ethyl Benzene	50.000	52.136	-4.3#	95	0.00
68 T	m/p-Xylenes	100.000	108.094	-8.1	96	0.00
69 T	o-Xylene	50.000	54.776	-9.6	96	0.00
70 T	Styrene	50.000	55.354	-10.7	96	0.00
71 P	Bromoform	50.000	54.763	-9.5	96	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73 T	Isopropylbenzene	50.000	47.706	4.6	94	0.00
74 T	N-amyl acetate	50.000	45.322	9.4	90	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.998	4.0	100	0.00
76 T	1,2,3-Trichloropropane	50.000	44.613	10.8	87	0.00
77 T	Bromobenzene	50.000	47.134	5.7	98	0.00
78 T	n-propylbenzene	50.000	49.330	1.3	95	0.00
79 T	2-Chlorotoluene	50.000	47.192	5.6	95	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.034	-0.1	96	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	43.206	13.6	87	0.00
82 T	4-Chlorotoluene	50.000	47.496	5.0	95	0.00
83 T	tert-Butylbenzene	50.000	47.471	5.1	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.510	-1.0	96	0.00
85 T	sec-Butylbenzene	50.000	49.306	1.4	94	0.00
86 T	p-Isopropyltoluene	50.000	49.893	0.2	93	0.00
87 T	1,3-Dichlorobenzene	50.000	47.055	5.9	97	0.00
88 T	1,4-Dichlorobenzene	50.000	46.984	6.0	98	0.00
89 T	n-Butylbenzene	50.000	46.782	6.4	90	0.00
90 T	Hexachloroethane	50.000	44.573	10.9	93	0.00
91 T	1,2-Dichlorobenzene	50.000	47.263	5.5	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.075	11.8	94	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.570	8.9	87	0.00
94 T	Hexachlorobutadiene	50.000	40.733	18.5	91	0.00
95 T	Naphthalene	50.000	44.152	11.7	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084526.D
Acq On : 25 Oct 2024 19:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 25 23:38:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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)
96 T	1,2,3-Trichlorobenzene	50.000	45.202	9.6	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 19:37

Lab File ID: VN084527.D Init. Calib. Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:43 11:19

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.832	1.694		-7.53	50
Chloromethane	2.084	1.957		-6.09	50
Vinyl Chloride	2.044	1.938	0.1	-5.19	50
Bromomethane	1.354	1.250	0.1	-7.68	50
Chloroethane	1.340	1.229		-8.28	50
Trichlorofluoromethane	3.329	3.208		-3.63	50
1,1,2-Trichlorotrifluoroethane	1.872	1.881		0.48	50
1,1-Dichloroethene	1.868	1.752	0.1	-6.21	50
Acrolein	0.434	0.424		-2.3	50
Acrylonitrile	1.051	0.946		-9.99	50
Acetone	0.300	0.258		-14	50
Carbon Disulfide	5.562	4.811		-13.5	50
Methyl tert-Butyl Ether	6.242	5.925		-5.08	50
Methyl Acetate	2.339	2.432		3.98	50
Methylene Chloride	2.104	2.094		-0.47	50
trans-1,2-Dichloroethene	1.977	1.851		-6.37	50
1,1-Dichloroethane	3.736	3.694	0.2	-1.12	50
Cyclohexane	0.570	0.523		-8.25	50
2-Butanone	0.262	0.236		-9.92	50
Carbon Tetrachloride	0.545	0.538	0.1	-1.28	50
2,2-Dichloropropane	0.579	0.448		-22.63	50
cis-1,2-Dichloroethene	2.300	2.230		-3.04	50
Chloroform	3.783	3.831	0.2	1.27	50
1,1,1-Trichloroethane	0.629	0.624	0.1	-0.8	50
Methylcyclohexane	0.541	0.468		-13.49	50
1,1-Dichloropropene	0.492	0.465		-5.49	50
Benzene	1.542	1.548	0.5	0.39	50
1,2-Dichloroethane	0.514	0.521	0.1	1.36	50
Trichloroethene	0.355	0.350	0.3	-1.41	50
1,2-Dichloropropane	0.376	0.372		-1.06	50
Dibromomethane	0.263	0.259		-1.52	50
Bromodichloromethane	0.558	0.558	0.2	0	50
4-Methyl-2-Pentanone	0.559	0.534		-4.47	50
Toluene	1.756	1.770	0.4	0.8	50
t-1,3-Dichloropropene	0.576	0.526	0.1	-8.68	50
cis-1,3-Dichloropropene	0.604	0.571	0.2	-5.46	50
1,1,2-Trichloroethane	0.353	0.360	0.1	1.98	50
1,3-Dichloropropane	0.617	0.600		-2.76	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 19:37

Lab File ID: VN084527.D Init. Calib. Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:43 11:19

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.415	0.386		-6.99	50
Dibromochloromethane	0.417	0.423	0.1	1.44	50
1,2-Dibromoethane	0.364	0.350		-3.85	50
Tetrachloroethene	0.339	0.351	0.2	3.54	50
Chlorobenzene	1.093	1.081	0.5	-1.1	50
1,1,1,2-Tetrachloroethane	0.380	0.388		2.11	50
Hexachloroethane	0.286	0.274		-4.2	50
Ethyl Benzene	1.908	1.839	0.1	-3.62	50
m/p-Xylenes	0.724	0.719	0.3	-0.69	50
o-Xylene	0.698	0.686	0.3	-1.72	50
Styrene	1.198	1.171	0.3	-2.25	50
Bromoform	0.277	0.264	0.1	-4.69	50
Isopropylbenzene	1.781	1.714		-3.76	50
1,1,2,2-Tetrachloroethane	0.551	0.548	0.3	-0.54	50
1,2,3-Trichloropropane	0.472	0.515		9.11	50
Bromobenzene	0.431	0.443		2.78	50
n-propylbenzene	2.123	2.063		-2.83	50
2-Chlorotoluene	1.319	1.315		-0.3	50
1,3,5-Trimethylbenzene	1.500	1.512		0.8	50
4-Chlorotoluene	1.341	1.316		-1.86	50
tert-butylbenzene	1.279	1.238		-3.21	50
1,2,4-Trimethylbenzene	1.522	1.492		-1.97	50
sec-Butylbenzene	1.762	1.731		-1.76	50
p-Isopropyltoluene	1.483	1.413		-4.72	50
1,3-Dichlorobenzene	0.802	0.799	0.2	-0.37	50
1,4-Dichlorobenzene	0.796	0.779	0.2	-2.14	50
n-Butylbenzene	1.284	1.164		-9.35	50
1,2-Dichlorobenzene	0.775	0.752	0.2	-2.97	50
1,2-Dibromo-3-Chloropropane	0.113	0.101		-10.62	50
1,2,4-Trichlorobenzene	0.403	0.374	0.2	-7.2	50
Hexachlorobutadiene	0.187	0.166		-11.23	50
Naphthalene	1.366	1.139		-16.62	50
1,2,3-Trichlorobenzene	0.403	0.374		-7.2	50
1,2-Dichloroethane-d4	2.415	2.425	0.01	0.41	50
Toluene-d8	1.390	1.397	0.01	0.5	50
4-Bromofluorobenzene	0.495	0.489	0.2	-1.21	50
Methyl Iodide	2.455	2.276		-7.29	50
Methyl methacrylate	0.409	0.376		-8.07	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\VN102524\
 Data File : VN084527.D
 Acq On : 25 Oct 2024 19:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 26 05:32:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31538	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	170706	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	157076	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	76475	30.119	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.400%			
60) 4-Bromofluorobenzene	12.847	95	76884	29.657	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.867%			
63) Toluene-d8	10.565	98	219459	30.159	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.533%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.130	85	35627	18.502	ug/l	99
3) Chloromethane	2.365	50	41153	18.781	ug/l	96
4) Vinyl Chloride	2.518	62	40740	18.959	ug/l	90
5) Bromomethane	2.965	94	26275	18.456	ug/l	97
6) Chloroethane	3.124	64	25843	18.345	ug/l	94
7) Trichlorofluoromethane	3.494	101	67439	19.267	ug/l	97
8) Diethyl Ether	3.959	74	23726	18.437	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	39547	20.095	ug/l	95
10) 1,1-Dichloroethene	4.347	96	36837	18.759	ug/l	83
11) Methyl Iodide	4.589	142	47859	18.546	ug/l	97
12) Methyl Acetate	5.030	43	51144	20.804	ug/l	97
13) Acrolein	4.183	56	44613	97.690	ug/l	98
14) Acrylonitrile	5.718	53	99485	90.074	ug/l	98
15) Acetone	4.436	58	27159	86.081	ug/l	95
16) Carbon Disulfide	4.712	76	101156	17.299	ug/l	99
17) Allyl chloride	5.024	41	55823	17.536	ug/l	90
18) Methylene Chloride	5.283	84	44030	19.904	ug/l	93
19) trans-1,2-Dichloroethene	5.788	96	38914	18.724	ug/l	86
20) Diisopropyl ether	6.671	45	135783	19.839	ug/l #	98
21) 1,1-Dichloroethane	6.565	63	77671	19.778	ug/l	96
22) cis-1,2-Dichloroethene	7.482	96	46891	19.389	ug/l	97
23) tert-Butyl Alcohol	5.524	59	36129	85.280	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	124567	18.982	ug/l #	83
25) Chloroform	7.965	83	80552	20.252	ug/l	98
26) Cyclohexane	8.259	56	59475	18.107	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	52926	18.887	ug/l	99
30) 2-Butanone	7.482	43	134140	89.907	ug/l	100
31) 2,2-Dichloropropane	7.494	77	50993	15.485	ug/l #	80
32) 1,1,1-Trichloroethane	8.165	97	71015	19.826	ug/l	98
33) Carbon Tetrachloride	8.359	117	61198	19.721	ug/l	95
34) Benzene	8.606	78	176120	20.078	ug/l	99
35) Methacrylonitrile	7.777	41	28193	17.713	ug/l	97
36) 1,2-Dichloroethane	8.671	62	59295	20.279	ug/l	98
37) Trichloroethene	9.347	130	39851	19.729	ug/l	94
38) Methylcyclohexane	9.600	83	53218	17.289	ug/l	98
39) 1,2-Dichloropropane	9.623	63	42306	19.777	ug/l	100
40) Dibromomethane	9.712	93	29439	19.691	ug/l	99
41) Bromodichloromethane	9.888	83	63470	19.998	ug/l	92
42) Vinyl Acetate	6.606	43	454035	87.500	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084527.D
 Acq On : 25 Oct 2024 19:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 26 05:32:38 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Oct 09 02:22:28 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	50798	17.263	ug/l	95
44) Isopropyl Acetate	8.688	43	92788	19.266	ug/l	97
45) 1,4-Dioxane	9.694	88	16021	369.015	ug/l #	87
46) Methyl methacrylate	9.682	41	42804	18.395	ug/l	96
47) n-amyl Acetate	12.494	43	78426	18.307	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	59808	18.236	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	65006	18.913	ug/l #	95
50) 1,1,2-Trichloroethane	11.018	97	40992	20.399	ug/l	97
51) Ethyl methacrylate	10.870	69	62124	18.717	ug/l	98
52) 1,3-Dichloropropane	11.165	76	68327	19.446	ug/l	99
53) Dibromochloromethane	11.359	129	48126	20.274	ug/l	99
54) 1,2-Dibromoethane	11.470	107	39841	19.261	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	145723	96.799	ug/l	98
56) Bromoform	12.582	173	30049	19.086	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	279735	95.601	ug/l	99
59) 2-Hexanone	11.194	43	202052	92.927	ug/l	99
61) Tetrachloroethene	11.100	164	36713	20.663	ug/l	97
62) Toluene	10.629	91	185332	20.155	ug/l	100
64) Chlorobenzene	11.888	112	113160	19.775	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	40642	20.444	ug/l	99
66) Ethyl Benzene	11.965	91	192535	19.272	ug/l	99
67) m/p-Xylenes	12.070	106	150556	39.725	ug/l	99
68) o-Xylene	12.400	106	71820	19.660	ug/l	97
69) Styrene	12.412	104	122646	19.558	ug/l	99
70) Isopropylbenzene	12.694	105	179492	19.247	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.935	83	57333	19.873	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	53881m	21.807	ug/l	
73) Bromobenzene	12.976	156	46430	20.557	ug/l	94
74) n-propylbenzene	13.035	91	216025	19.439	ug/l	99
75) 2-Chlorotoluene	13.123	91	137724	19.943	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	158334	20.164	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	17050	16.149	ug/l	95
78) 4-Chlorotoluene	13.217	91	137774	19.623	ug/l	99
79) tert-butylbenzene	13.435	119	129645	19.353	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	156217	19.607	ug/l	100
81) sec-Butylbenzene	13.617	105	181249	19.652	ug/l	100
82) p-Isopropyltoluene	13.729	119	147935	19.057	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	83699	19.930	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	81543	19.554	ug/l	98
85) n-Butylbenzene	14.053	91	121924	18.134	ug/l	99
86) Hexachloroethane	14.335	117	28649	19.155	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	78746	19.394	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10575	17.925	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	39188	18.563	ug/l	98
90) Hexachlorobutadiene	15.500	225	17360	17.775	ug/l	98
91) Naphthalene	15.635	128	119261	16.671	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	39188	18.563	ug/l	98

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

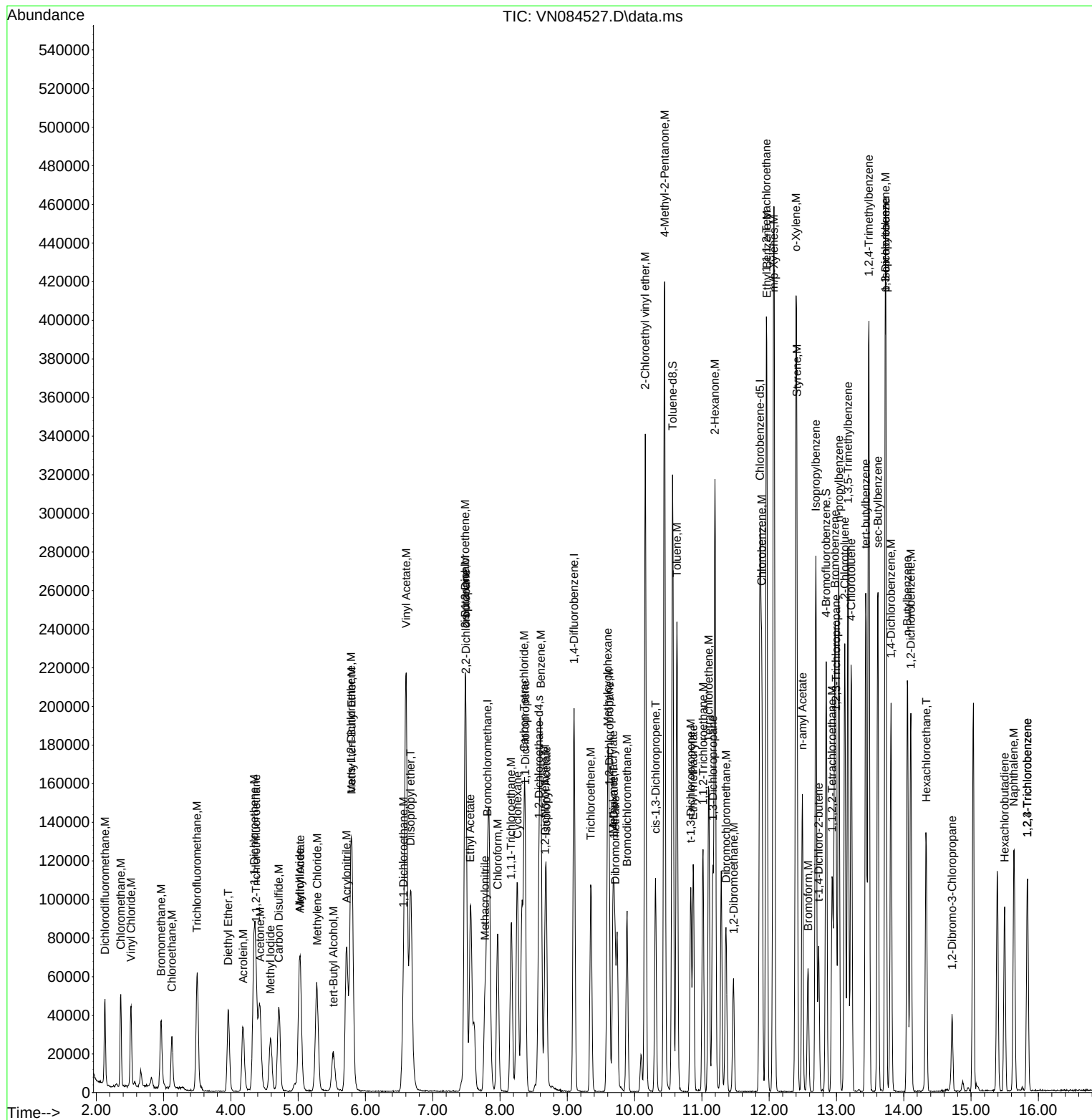
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Data File : VN084527.D  
Acq On    : 25 Oct 2024   19:37  
Operator  : JC\MD  
Sample    : VSTDCCC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1      Sample Multiplier: 1
```

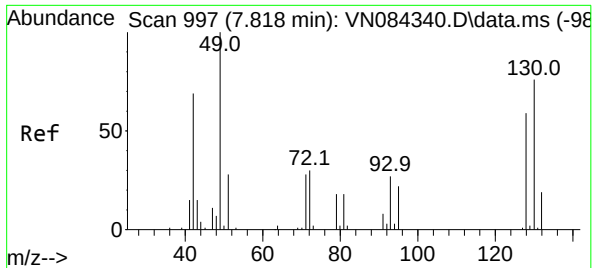
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

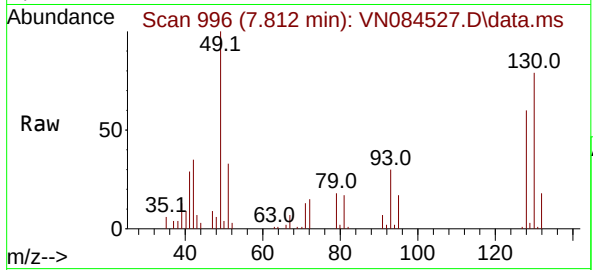
Quant Time: Oct 26 05:32:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

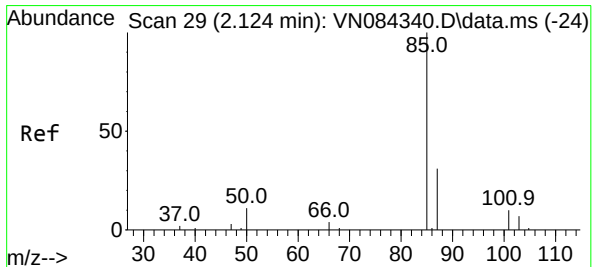
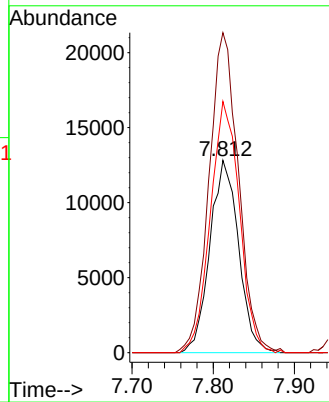
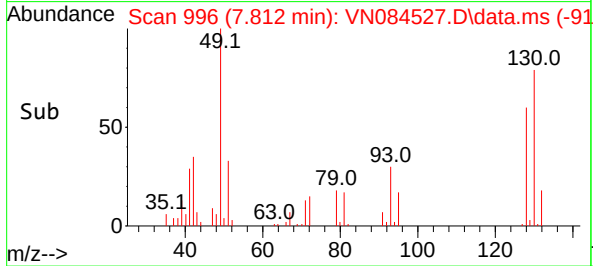
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:128 Resp: 3153
Ion Ratio Lower Upper
128 100
49 170.3 0.0 430.0
130 132.4 0.0 329.8

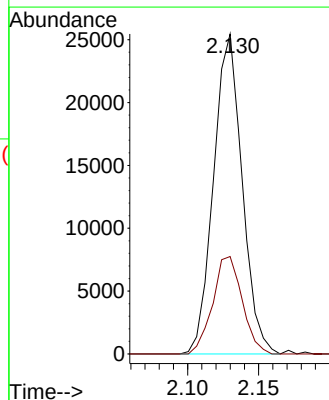
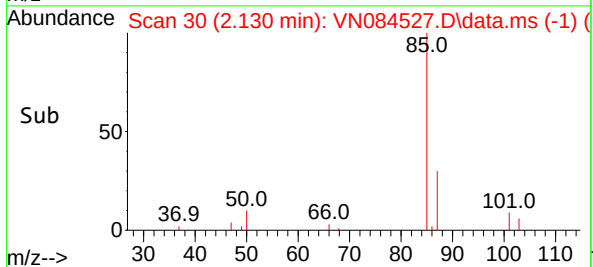
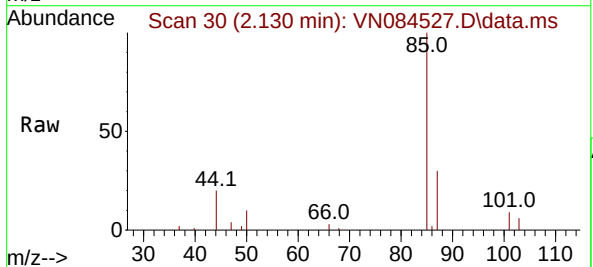
Manual Integrations
APPROVED

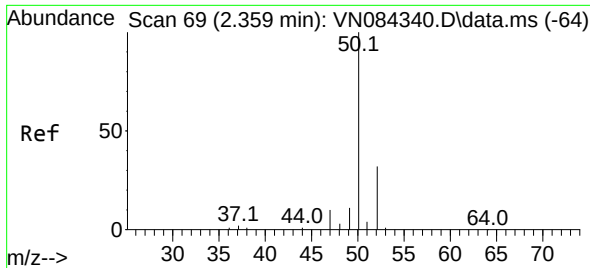
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#2
Dichlorodifluoromethane
Concen: 18.502 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 85 Resp: 35627
Ion Ratio Lower Upper
85 100
87 30.4 15.4 46.4





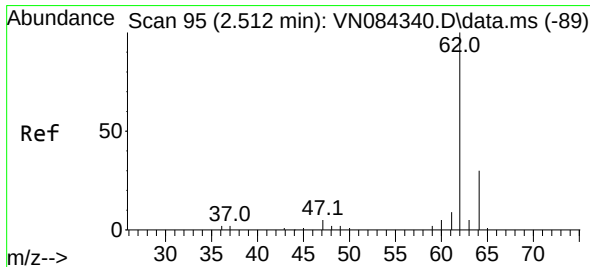
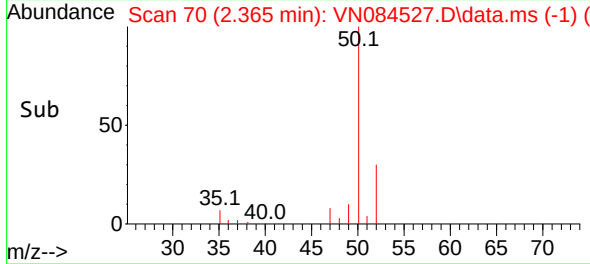
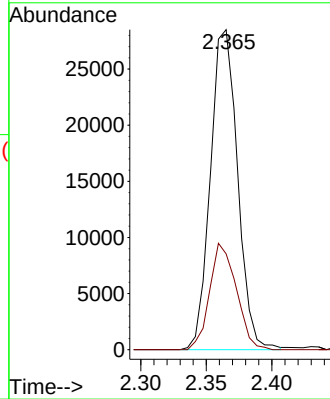
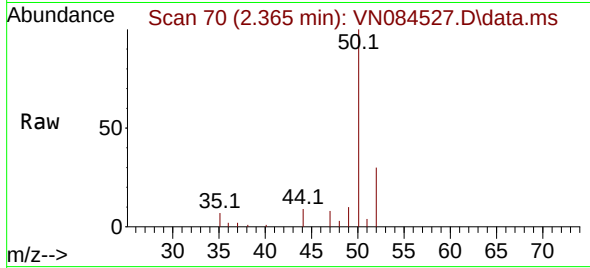
#3
Chloromethane
Concen: 18.781 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 50 Resp: 4115
Ion Ratio Lower Upper
50 100
52 30.0 25.8 38.6

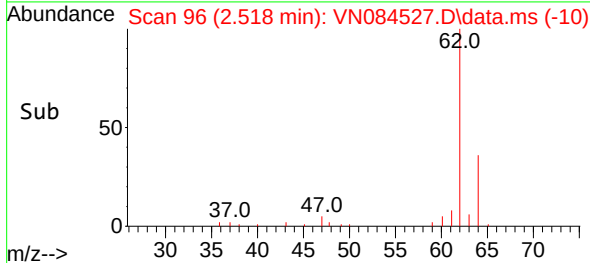
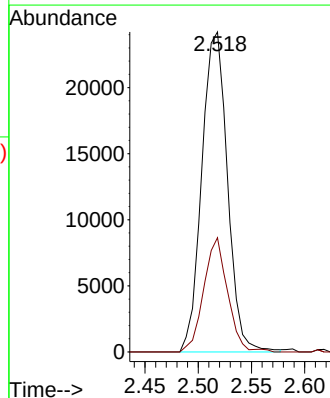
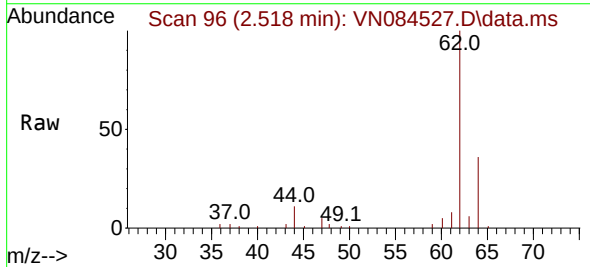
Manual Integrations
APPROVED

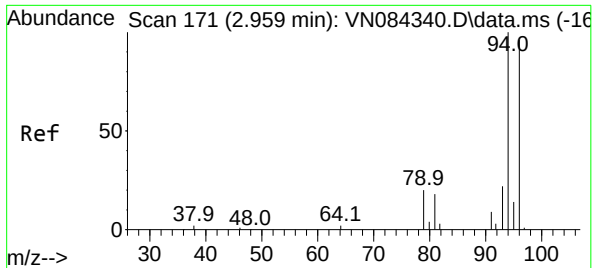
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#4
Vinyl Chloride
Concen: 18.959 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

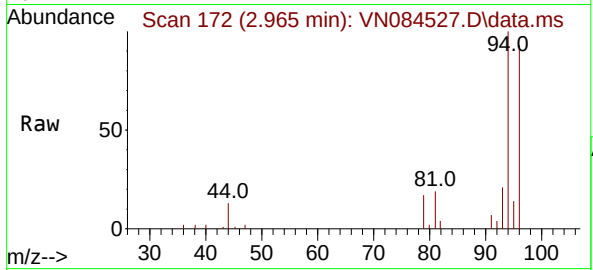
Tgt Ion: 62 Resp: 40740
Ion Ratio Lower Upper
62 100
64 35.7 24.3 36.5





#5
Bromomethane
Concen: 18.456 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

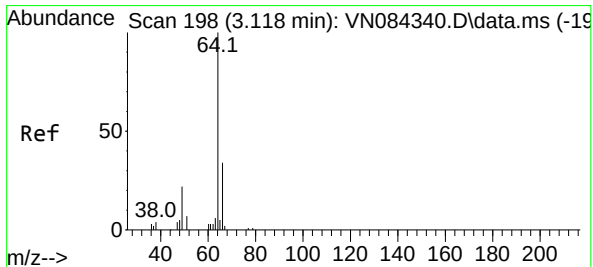
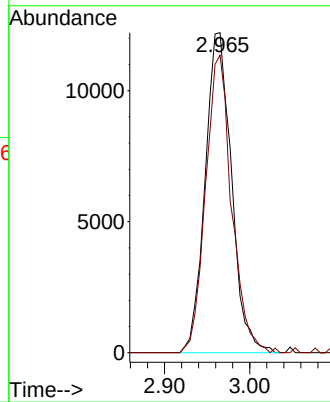
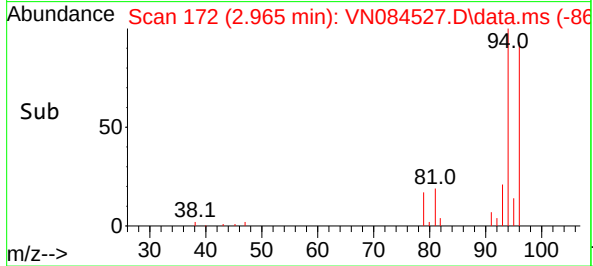
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 94 Resp: 26275
Ion Ratio Lower Upper
94 100
96 92.9 76.7 115.1

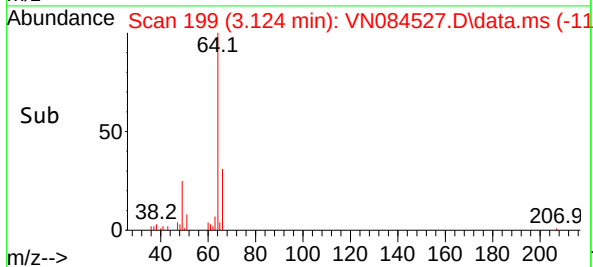
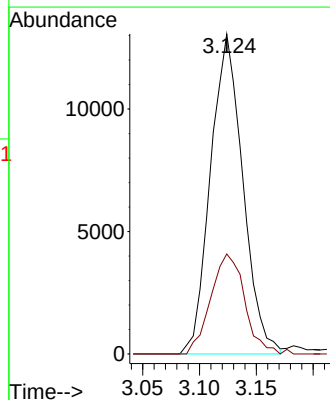
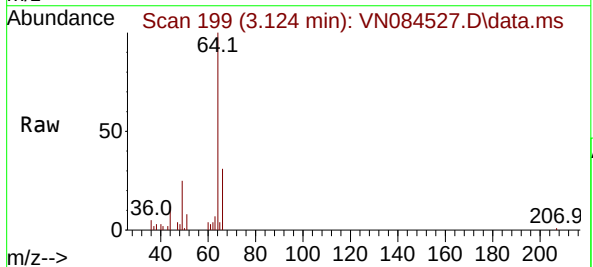
Manual Integrations
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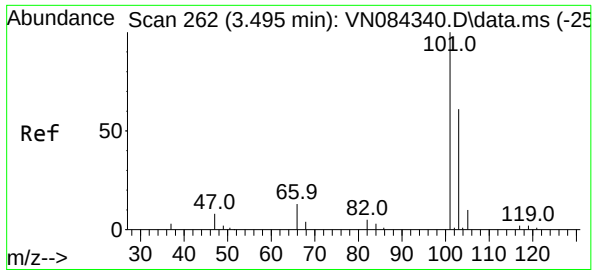
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#6
Chloroethane
Concen: 18.345 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

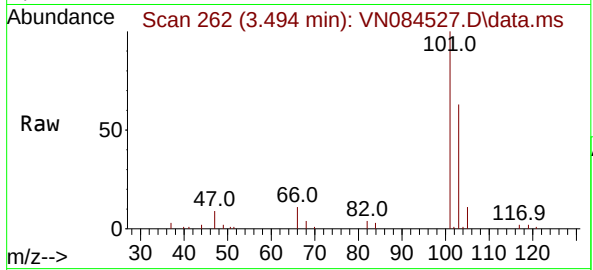
Tgt Ion: 64 Resp: 25843
Ion Ratio Lower Upper
64 100
66 31.3 27.7 41.5





#7
Trichlorofluoromethane
Concen: 19.267 ug/l
RT: 3.494 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

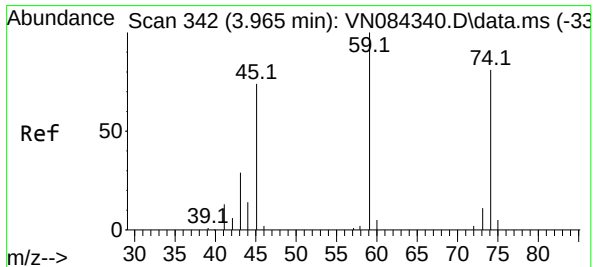
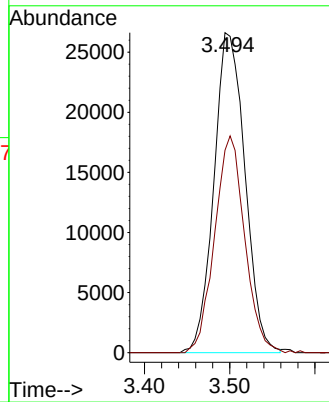
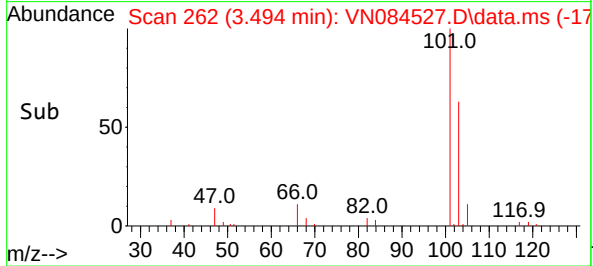
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:101 Resp: 67439
Ion Ratio Lower Upper
101 100
103 63.3 49.0 73.6

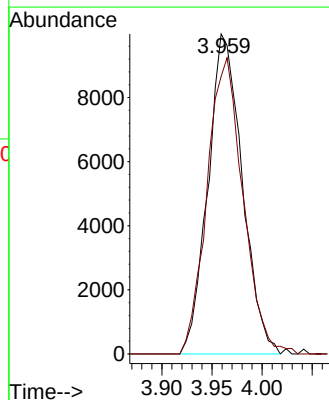
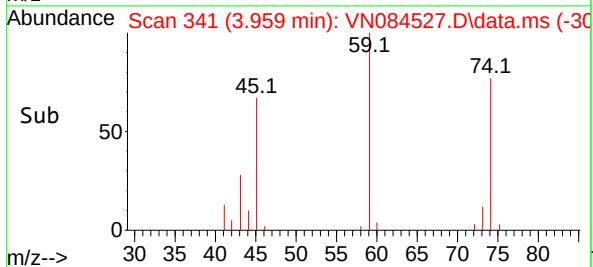
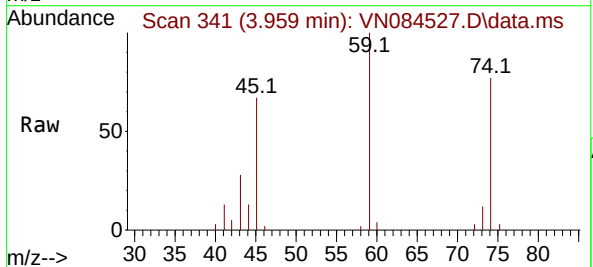
Manual Integrations
APPROVED

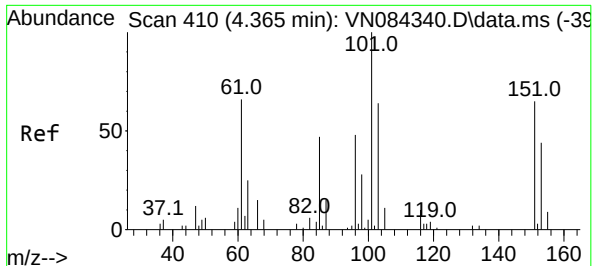
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#8
Diethyl Ether
Concen: 18.437 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 74 Resp: 23726
Ion Ratio Lower Upper
74 100
45 97.0 19.2 173.2





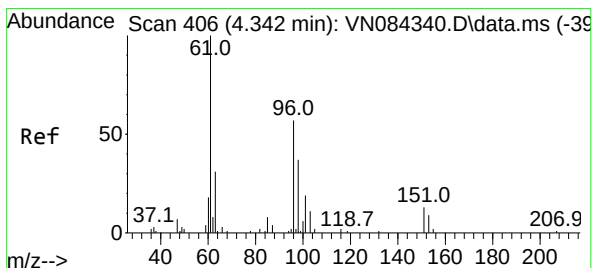
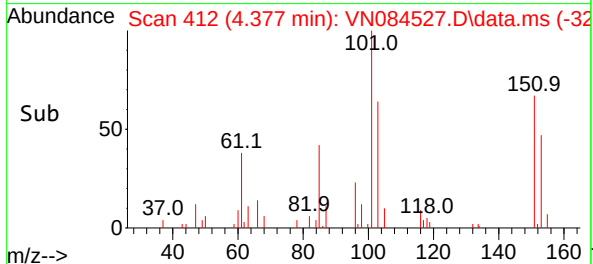
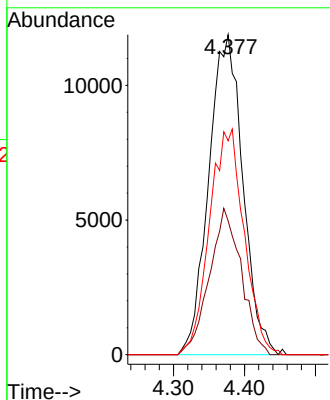
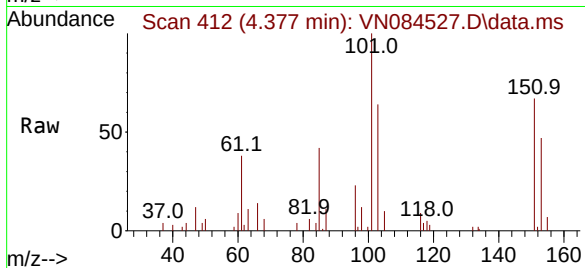
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.095 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:101 Resp: 3954
Ion Ratio Lower Upper
101 100
85 42.9 0.0 93.6
151 71.8 0.0 151.8

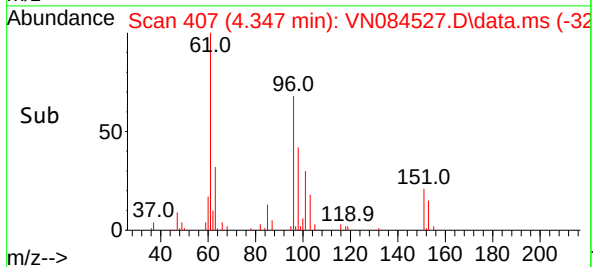
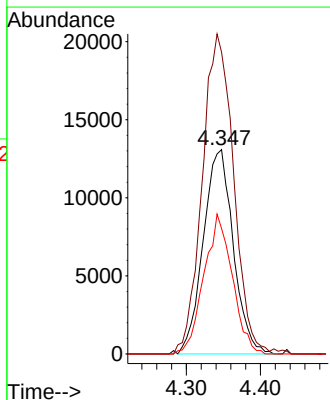
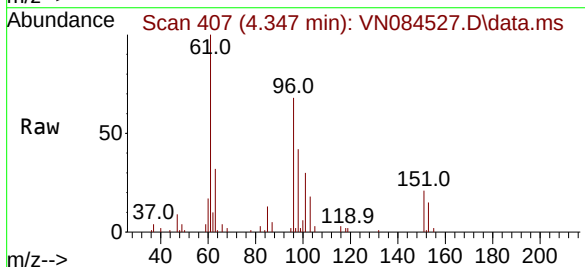
Manual Integrations
APPROVED

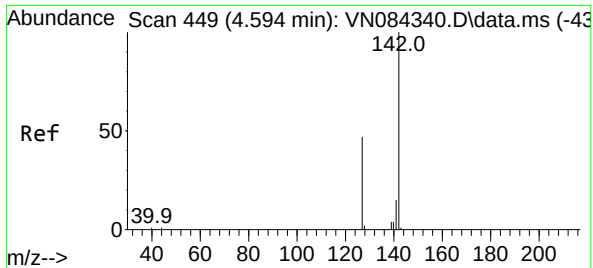
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#10
1,1-Dichloroethene
Concen: 18.759 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

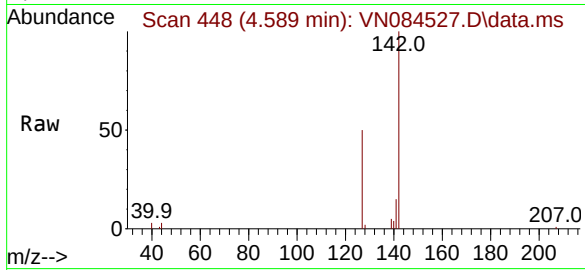
Tgt Ion: 96 Resp: 36837
Ion Ratio Lower Upper
96 100
61 146.4 140.8 211.2
98 61.4 52.2 78.2





#11
Methyl Iodide
Concen: 18.546 ug/l
RT: 4.589 min Scan# 449
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

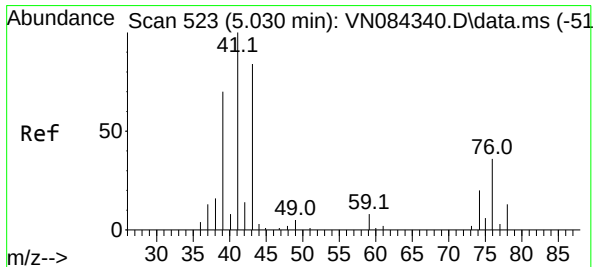
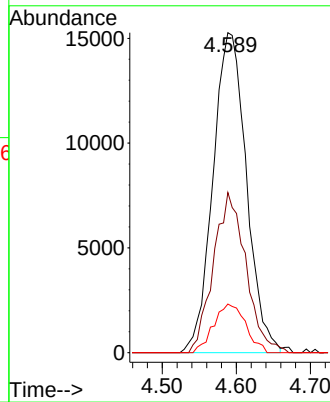
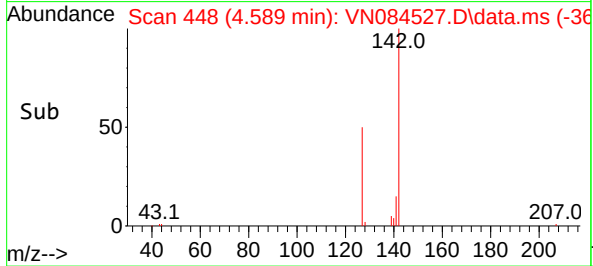
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:142 Resp: 47859
Ion Ratio Lower Upper
142 100
127 49.6 23.8 71.4
141 15.3 7.4 22.2

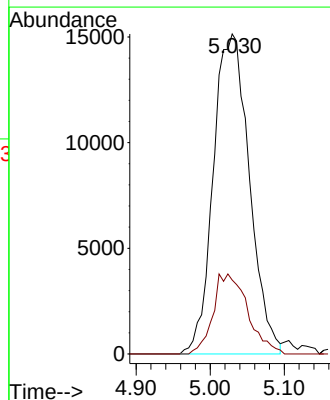
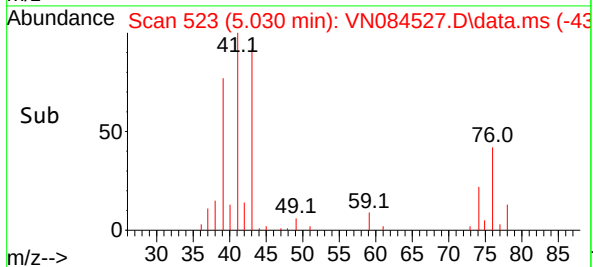
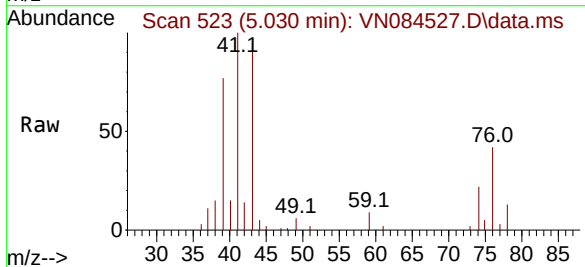
Manual Integrations
APPROVED

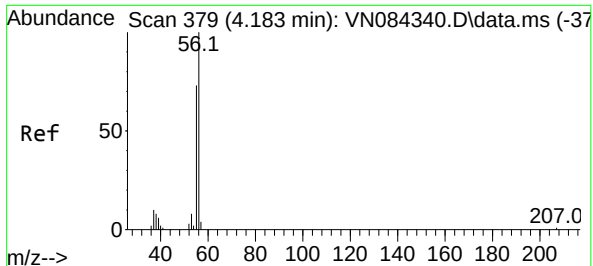
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#12
Methyl Acetate
Concen: 20.804 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 43 Resp: 51144
Ion Ratio Lower Upper
43 100
74 22.9 19.4 29.2





#13

Acrolein

Concen: 97.690 ug/l

RT: 4.183 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 56 Resp: 4461

Ion Ratio Lower Upper

56 100

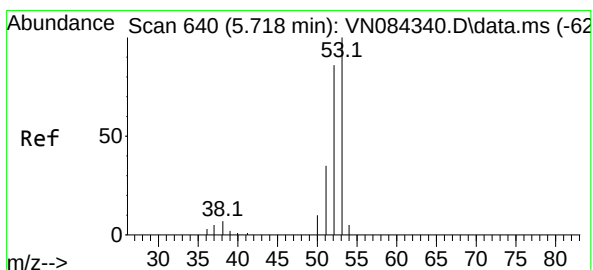
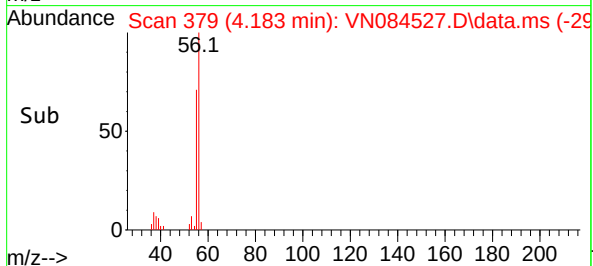
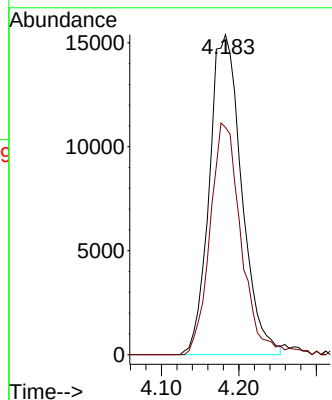
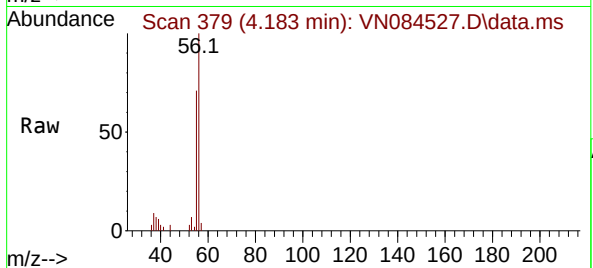
55 69.0 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#14

Acrylonitrile

Concen: 90.074 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

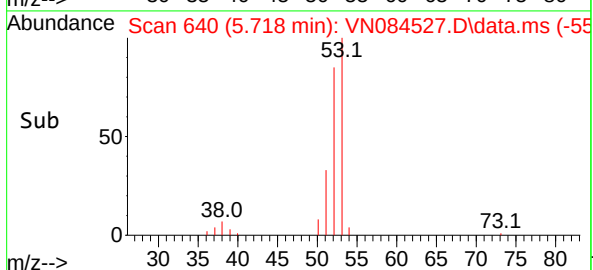
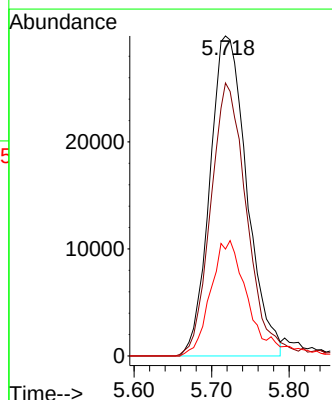
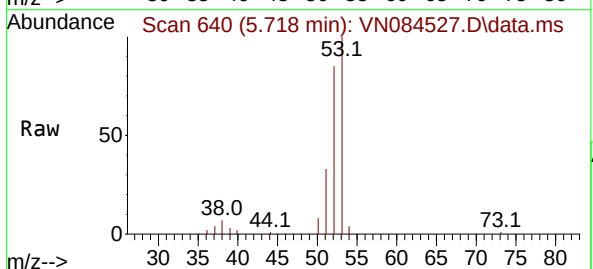
Tgt Ion: 53 Resp: 99485

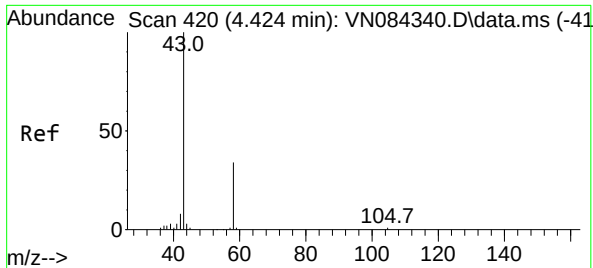
Ion Ratio Lower Upper

53 100

52 82.7 40.4 121.2

51 33.9 17.8 53.4





#15

Acetone

Concen: 86.081 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 58 Resp: 27159

Ion Ratio Lower Upper

58 100

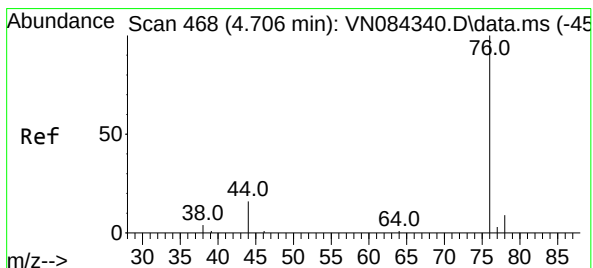
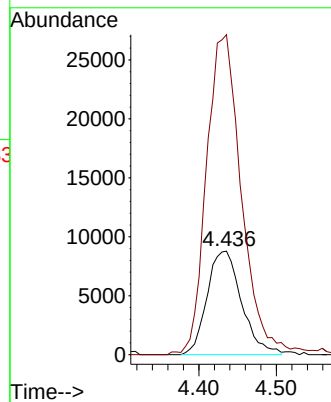
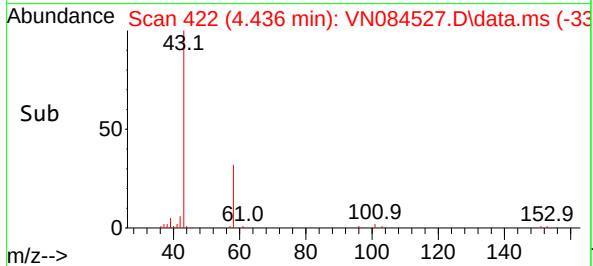
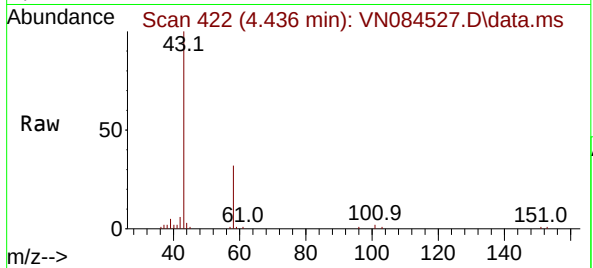
43 307.0 237.5 356.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#16

Carbon Disulfide

Concen: 17.299 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN084527.D

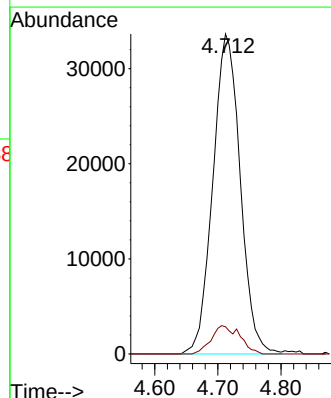
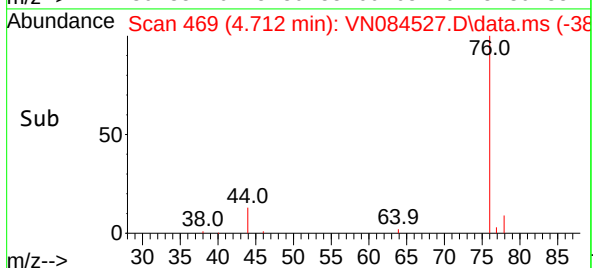
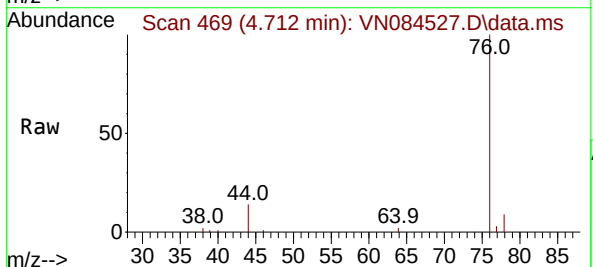
Acq: 25 Oct 2024 19:37

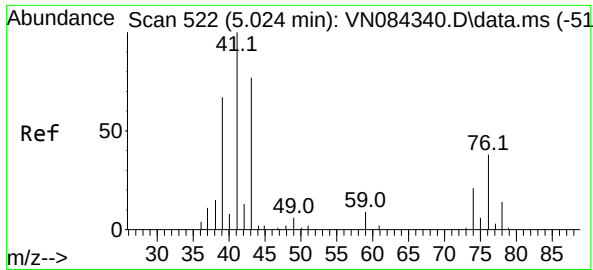
Tgt Ion: 76 Resp: 101156

Ion Ratio Lower Upper

76 100

78 8.5 7.1 10.7





#17

Allyl chloride

Concen: 17.536 ug/l

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

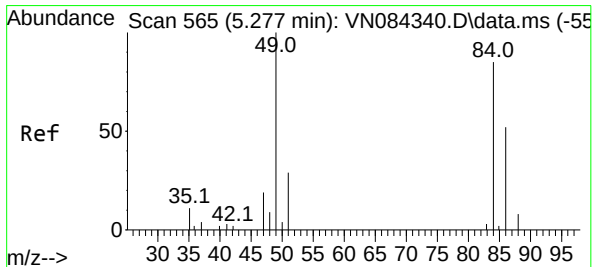
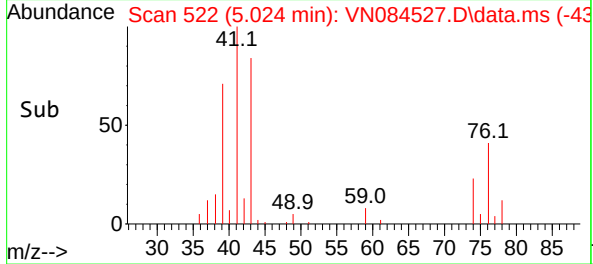
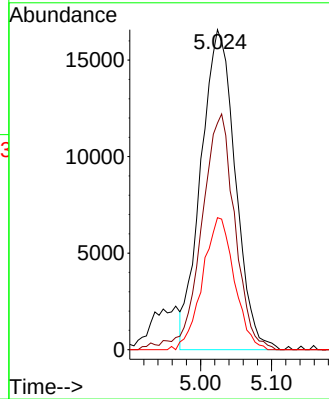
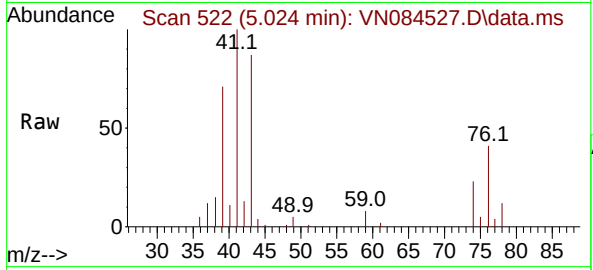
VSTDCCC020EC

Tgt Ion:	41	Resp:	5582
Ion	Ratio	Lower	Upper
41	100		
39	70.8	31.4	94.3
76	41.3	17.8	53.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#18

Methylene Chloride

Concen: 19.904 ug/l

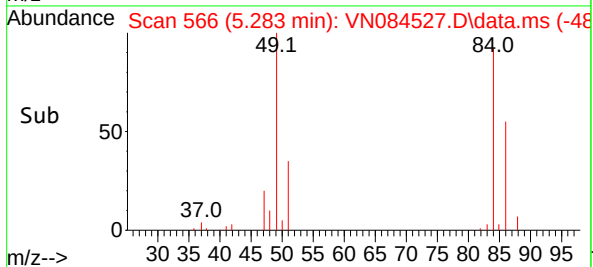
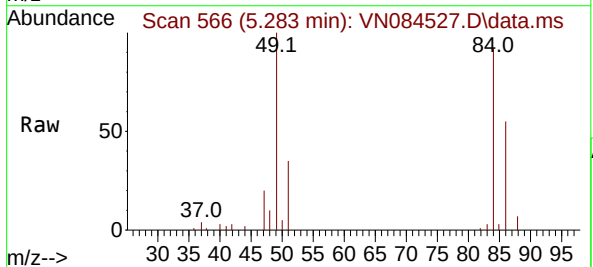
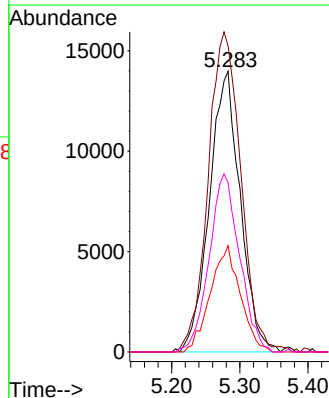
RT: 5.283 min Scan# 566

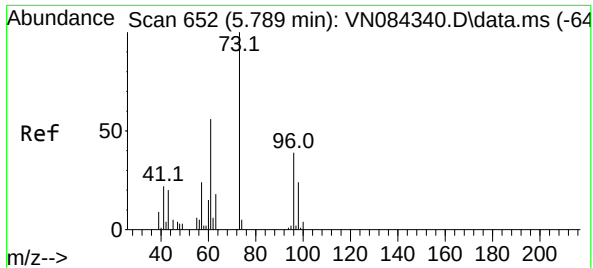
Delta R.T. 0.006 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Tgt Ion:	84	Resp:	44030
Ion	Ratio	Lower	Upper
84	100		
49	107.7	94.6	142.0
51	37.9	27.3	40.9
86	60.3	49.4	74.0





#19

trans-1,2-Dichloroethene

Concen: 18.724 ug/l

RT: 5.788 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 96 Resp: 38914

Ion Ratio Lower Upper

96 100

61 126.5 115.8 173.6

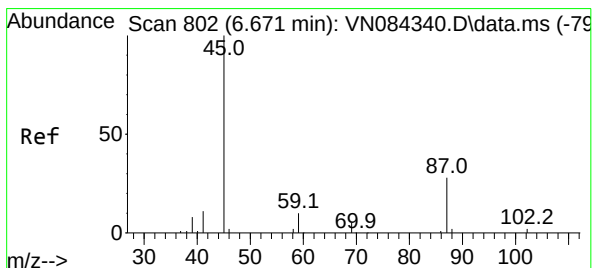
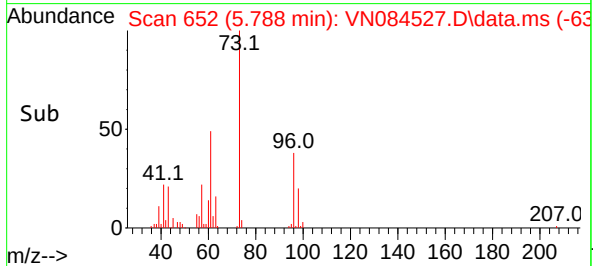
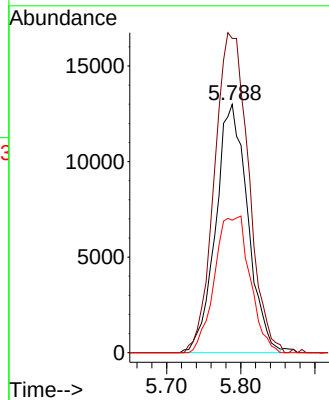
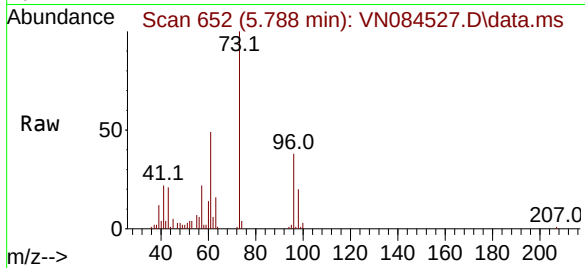
98 53.3 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#20

Diisopropyl ether

Concen: 19.839 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Tgt Ion: 45 Resp: 135783

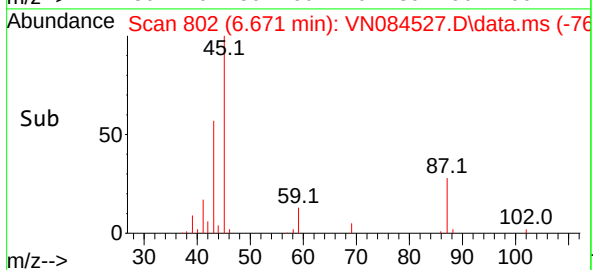
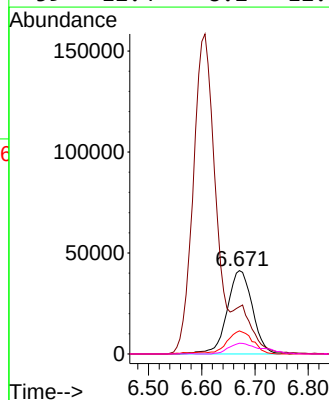
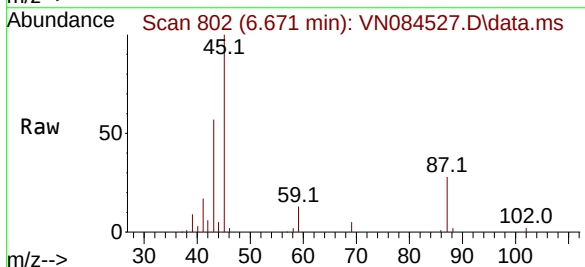
Ion Ratio Lower Upper

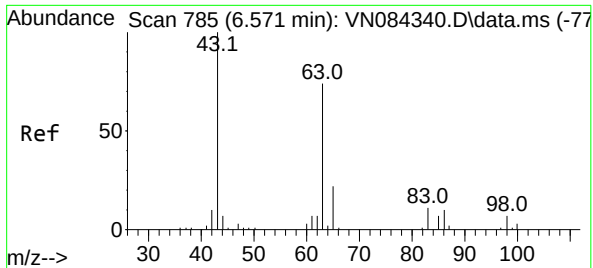
45 100

43 54.2 43.7 65.5

87 27.6 23.1 34.7

59 12.4 8.2 12.4#





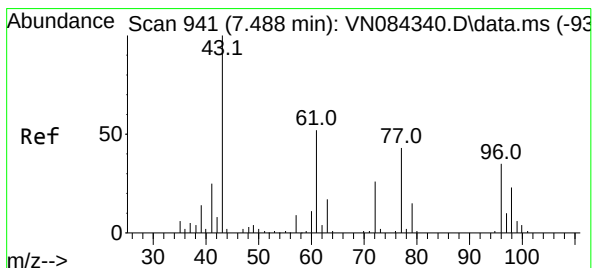
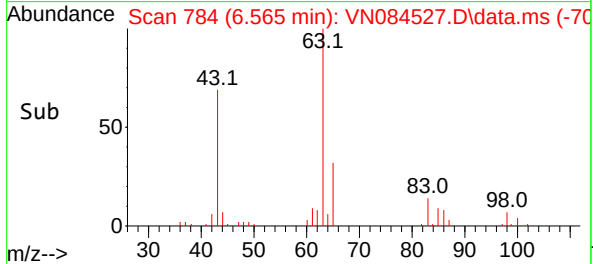
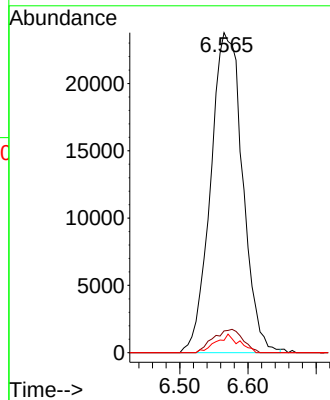
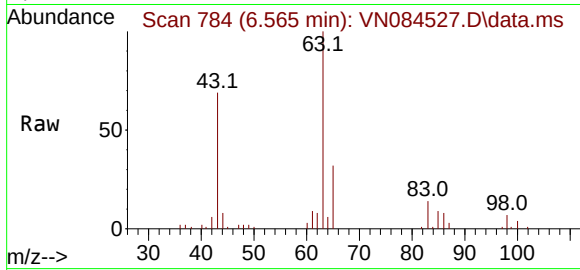
#21
1,1-Dichloroethane
Concen: 19.778 ug/l
RT: 6.565 min Scan# 71
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 63 Resp: 7767
Ion Ratio Lower Upper
63 100
98 6.8 4.5 13.4
100 3.8 2.1 6.3

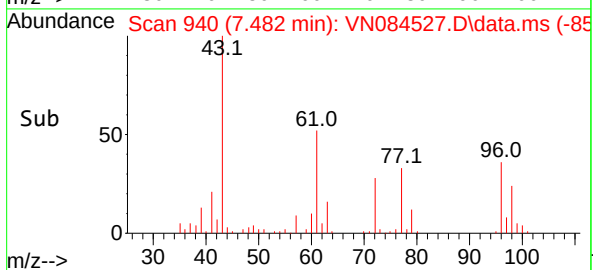
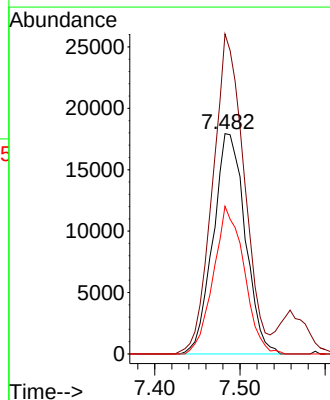
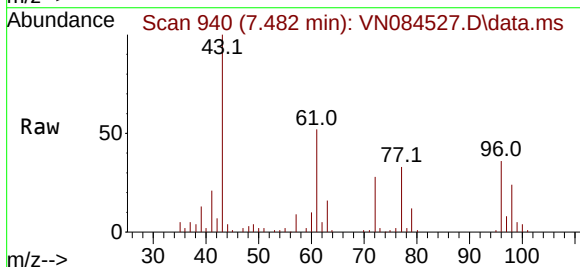
Manual Integrations
APPROVED

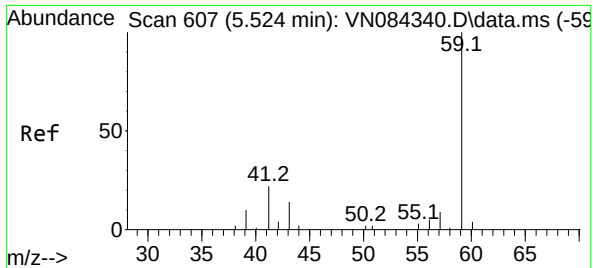
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#22
cis-1,2-Dichloroethene
Concen: 19.389 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

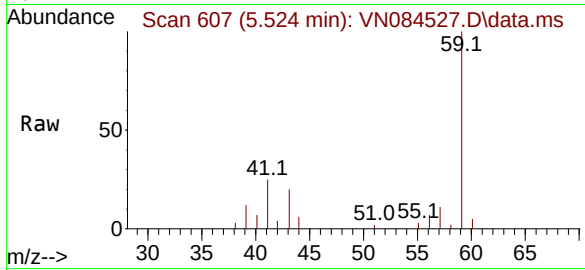
Tgt Ion: 96 Resp: 46891
Ion Ratio Lower Upper
96 100
61 142.5 118.0 177.0
98 63.9 51.8 77.8





#23
tert-Butyl Alcohol
Concen: 85.280 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

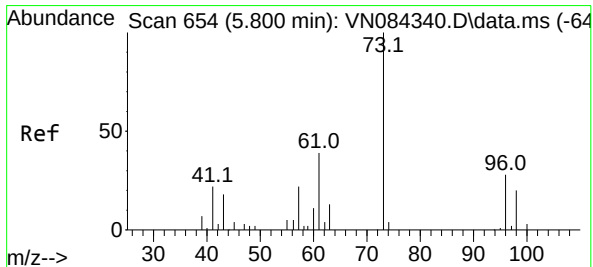
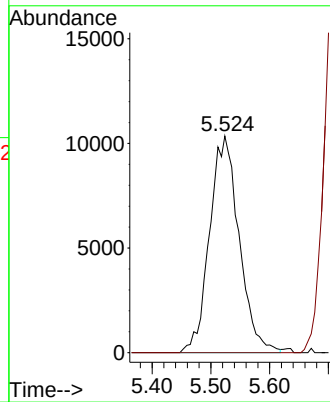
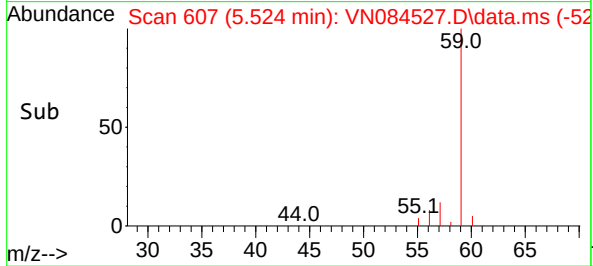
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 59 Resp: 36129
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

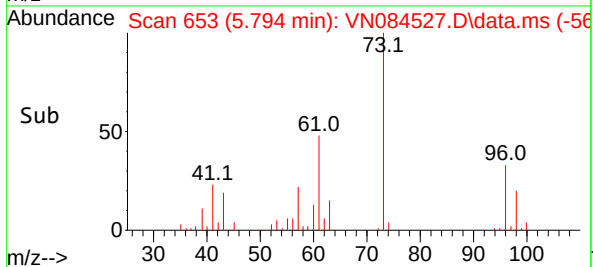
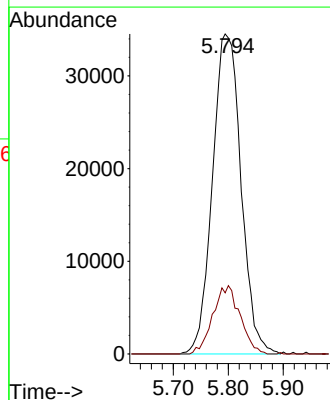
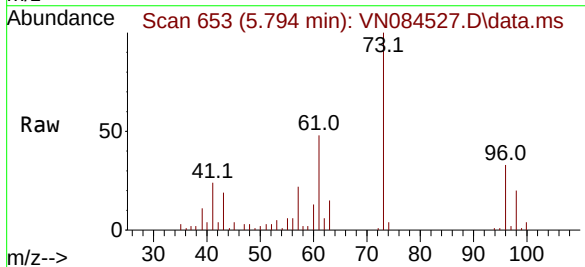
Manual Integrations
APPROVED

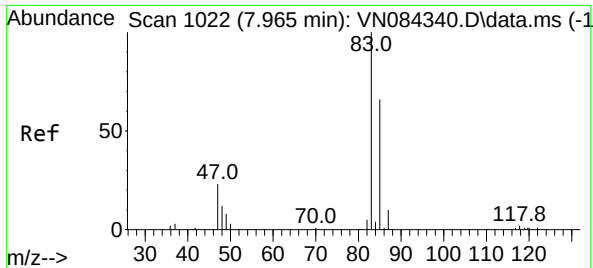
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#24
Methyl tert-Butyl Ether
Concen: 18.982 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 73 Resp: 124567
Ion Ratio Lower Upper
73 100
43 20.4 10.9 16.3#





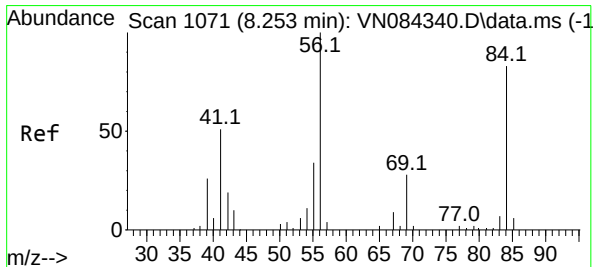
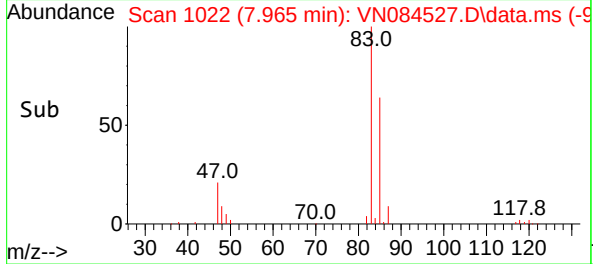
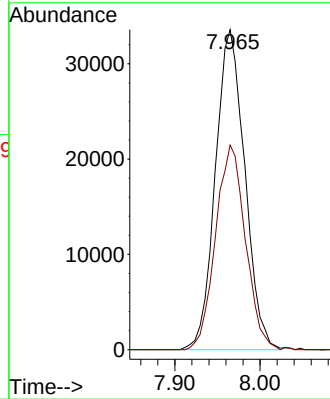
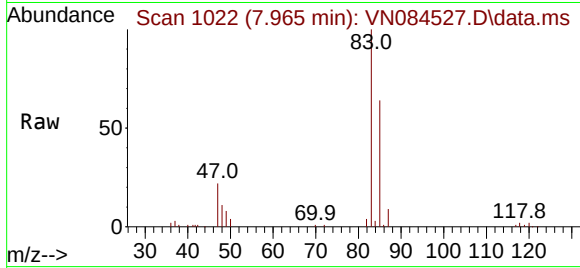
#25
Chloroform
Concen: 20.252 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 83 Resp: 80552
Ion Ratio Lower Upper
83 100
85 64.0 52.4 78.6

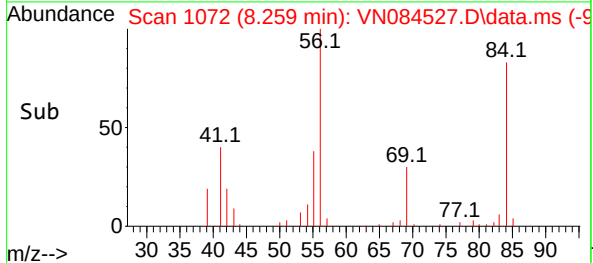
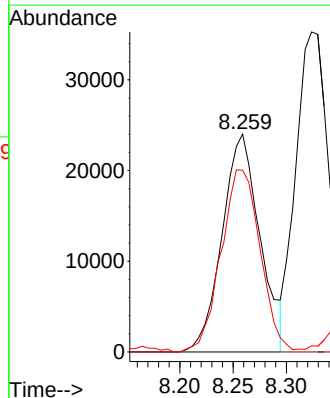
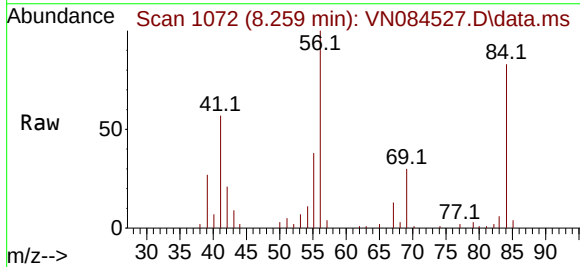
Manual Integrations
APPROVED

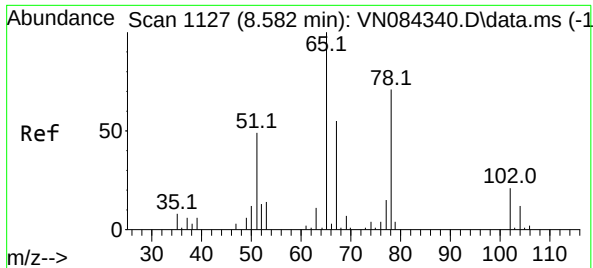
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#26
Cyclohexane
Concen: 18.107 ug/l
RT: 8.259 min Scan# 1072
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

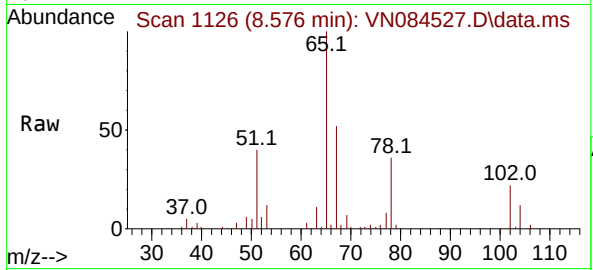
Tgt Ion: 56 Resp: 59475
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 86.1 67.0 100.6





#27
1,2-Dichloroethane-d4
Concen: 30.119 ug/l
RT: 8.576 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

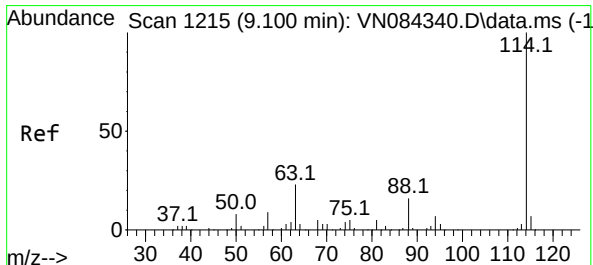
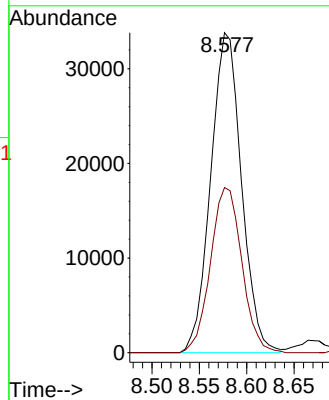
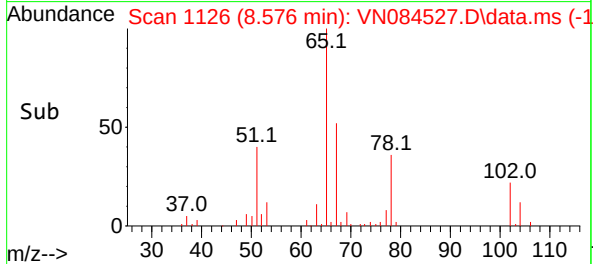
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 65 Resp: 76475
Ion Ratio Lower Upper
65 100
67 52.6 41.5 62.3

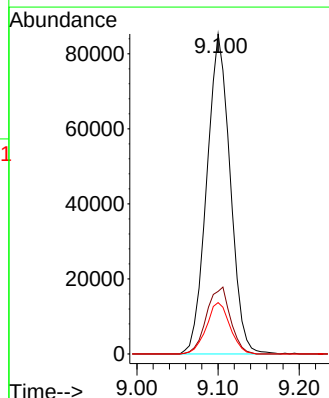
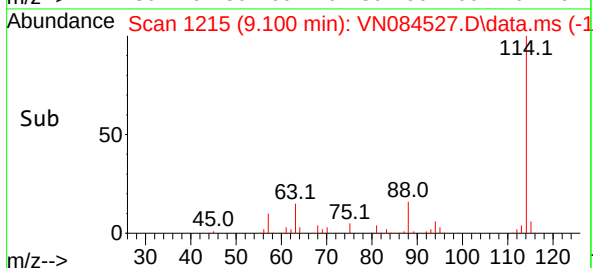
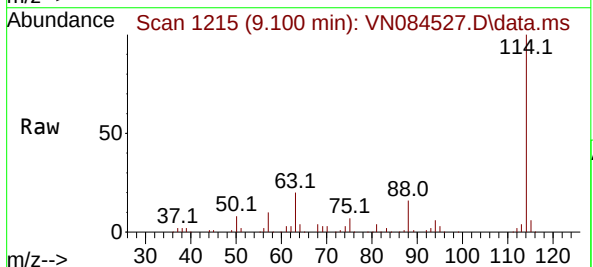
Manual Integrations
APPROVED

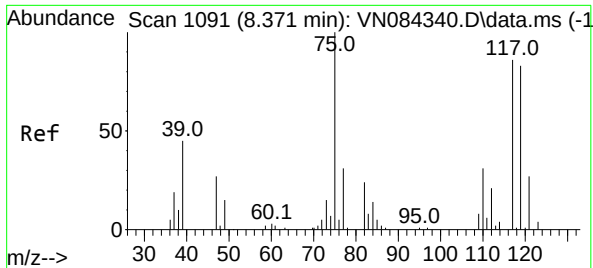
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion:114 Resp: 170706
Ion Ratio Lower Upper
114 100
63 21.3 17.4 26.0
88 16.2 13.2 19.8





#29

1,1-Dichloropropene

Concen: 18.887 ug/l

RT: 8.377 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

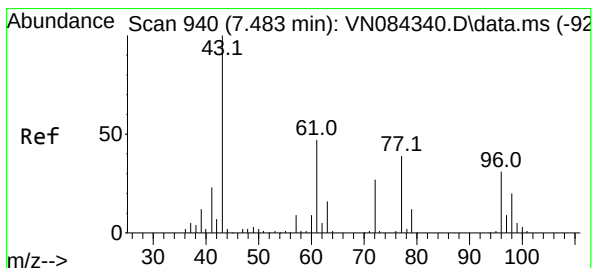
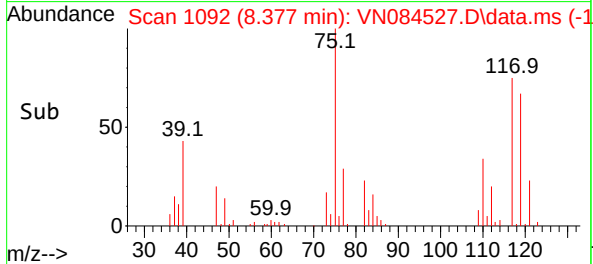
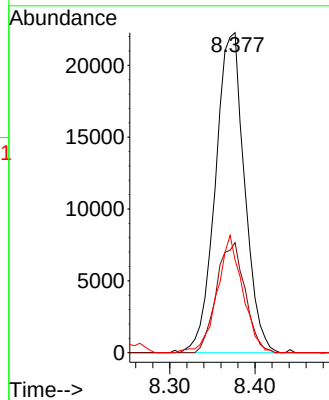
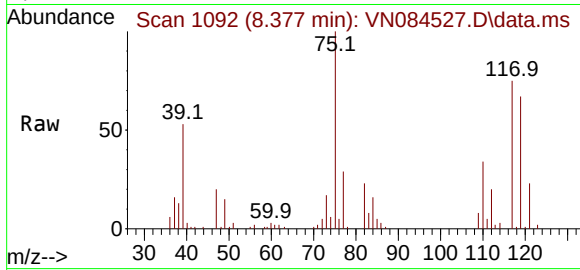
VSTDCCC020EC

Tgt Ion: 75	Resp: 52920
Ion Ratio	Lower Upper
75 100	
110 33.7	0.0 67.6
77 32.2	0.0 61.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#30

2-Butanone

Concen: 89.907 ug/l

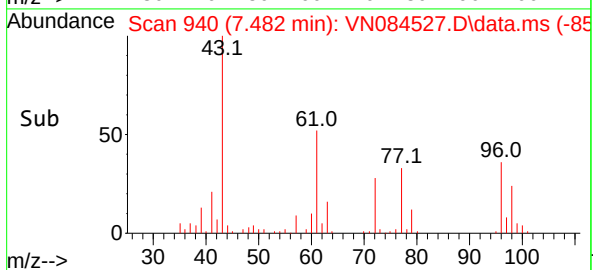
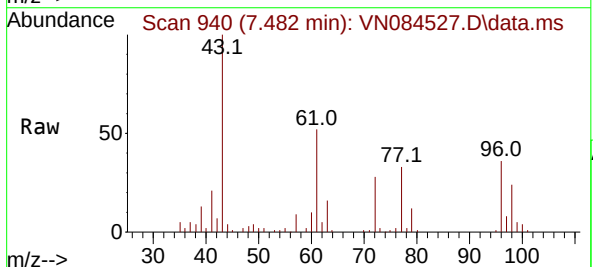
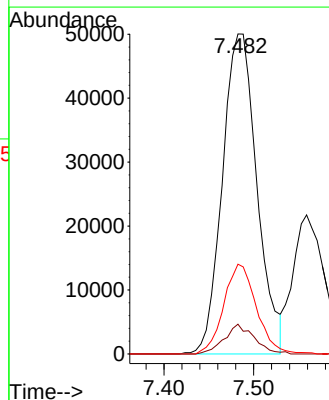
RT: 7.482 min Scan# 940

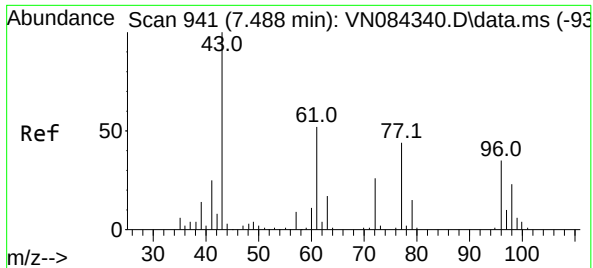
Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

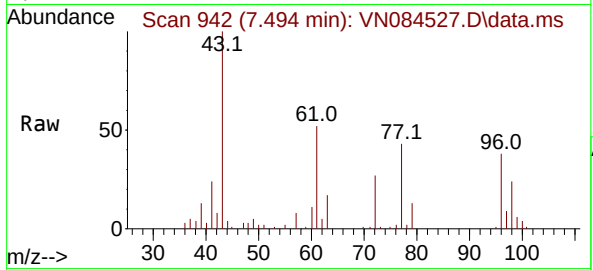
Tgt Ion: 43	Resp: 134140
Ion Ratio	Lower Upper
43 100	
57 7.9	6.6 9.8
72 26.5	21.3 31.9





#31
2,2-Dichloropropane
Concen: 15.485 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

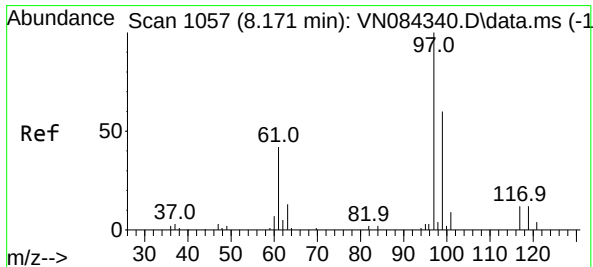
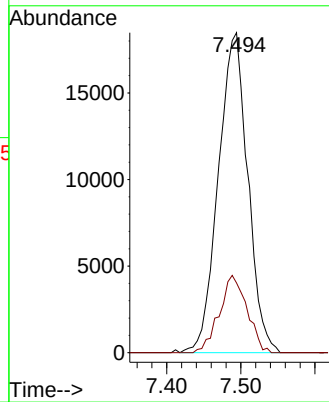
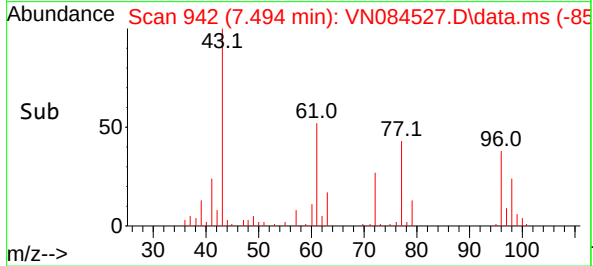
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 77 Resp: 5099
Ion Ratio Lower Upper
77 100
97 22.7 11.5 17.3

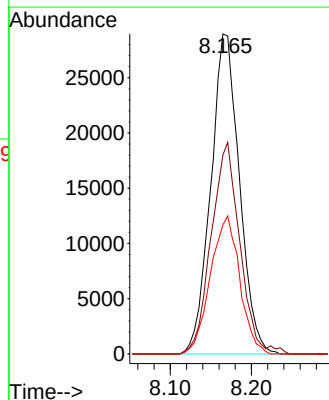
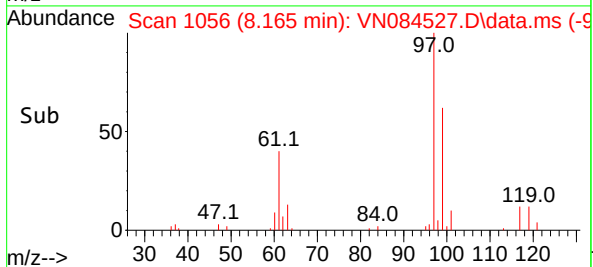
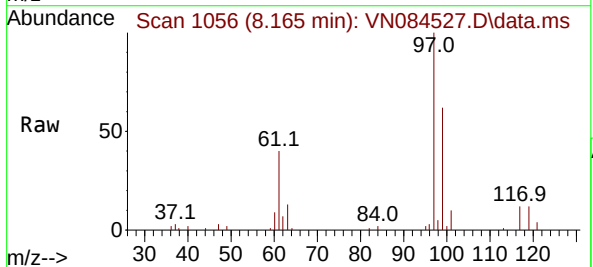
Manual Integrations
APPROVED

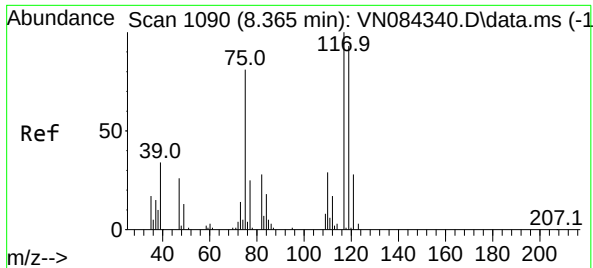
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#32
1,1,1-Trichloroethane
Concen: 19.826 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

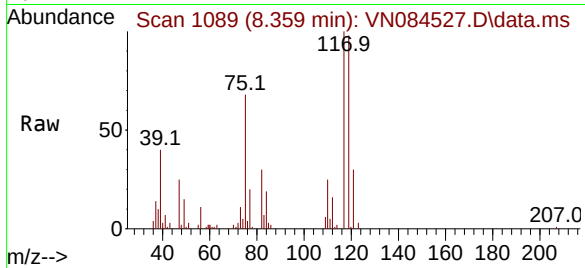
Tgt Ion: 97 Resp: 71015
Ion Ratio Lower Upper
97 100
99 65.1 51.2 76.8
61 44.1 34.1 51.1





#33
Carbon Tetrachloride
Concen: 19.721 ug/l
RT: 8.359 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

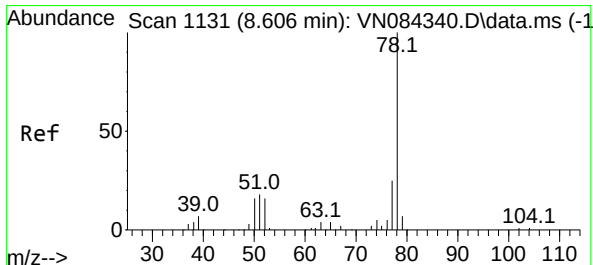
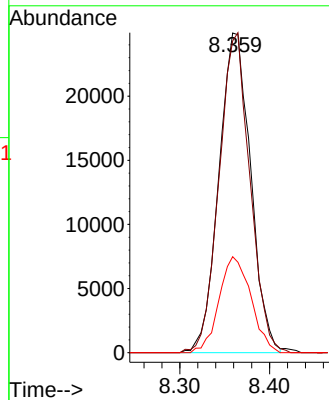
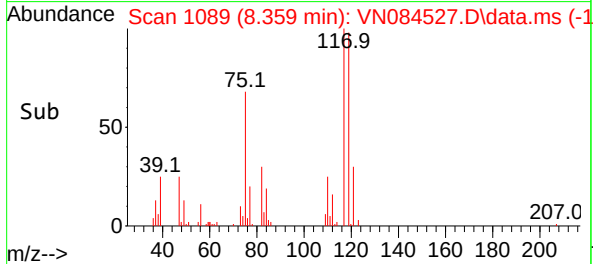
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 117 Resp: 61198
Ion Ratio Lower Upper
117 100
119 97.6 74.3 111.5
121 30.0 22.4 33.6

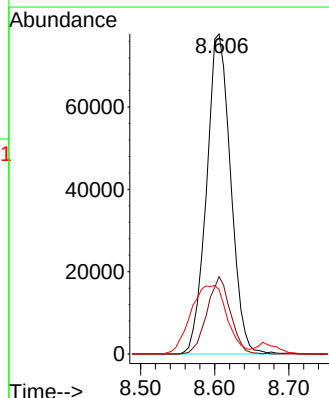
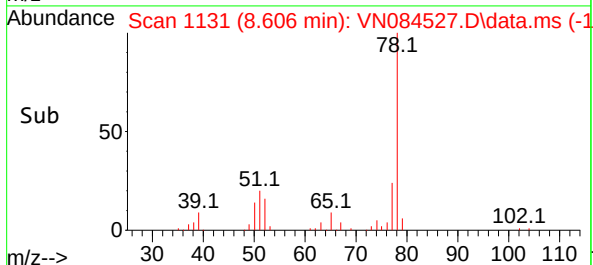
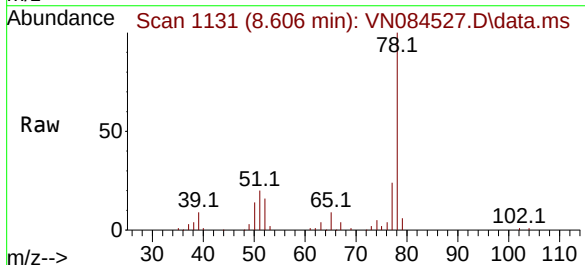
Manual Integrations
APPROVED

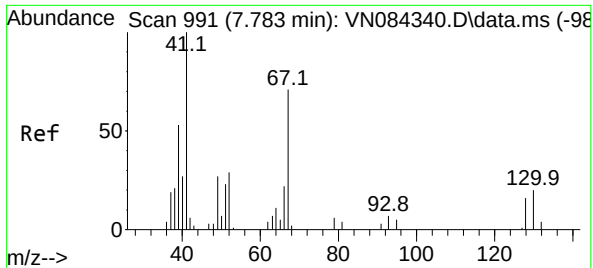
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#34
Benzene
Concen: 20.078 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 78 Resp: 176120
Ion Ratio Lower Upper
78 100
77 24.2 19.6 29.4
51 18.6 15.8 23.6





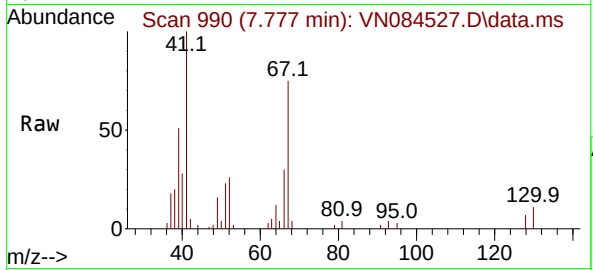
#35
Methacrylonitrile
Concen: 17.713 ug/l
RT: 7.777 min Scan# 991
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

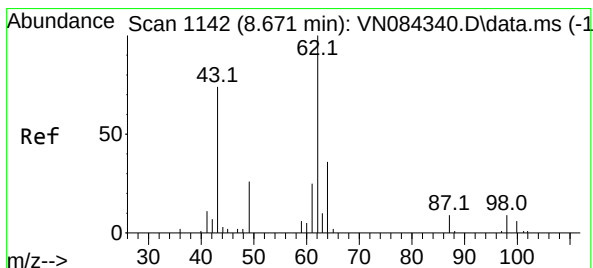
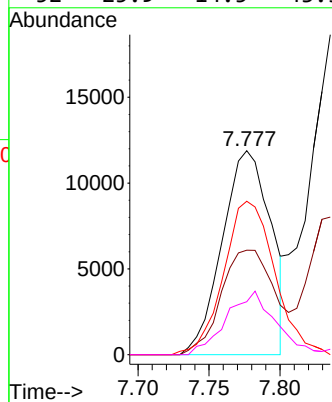
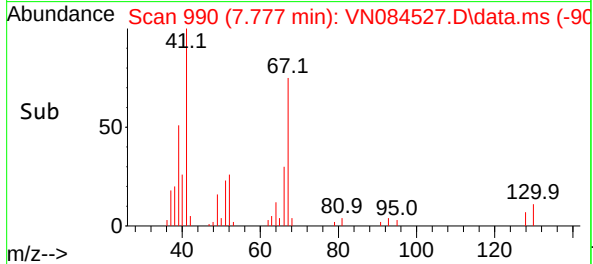


Tgt Ion: 41 Resp: 2819
Ion Ratio Lower Upper
41 100
39 51.2 26.4 79.0
67 73.5 35.7 107.1
52 25.9 14.5 43.5

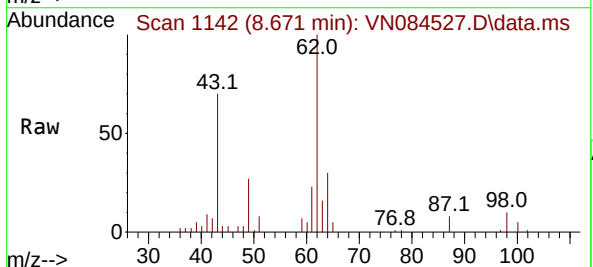
Manual Integrations

APPROVED

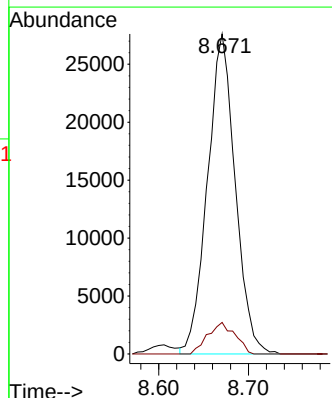
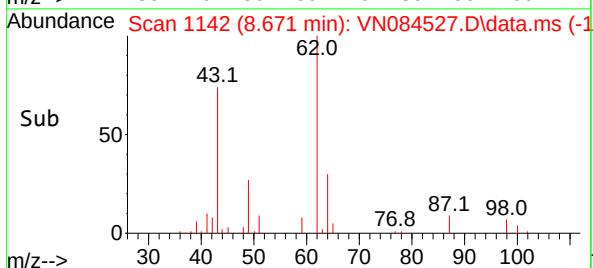
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

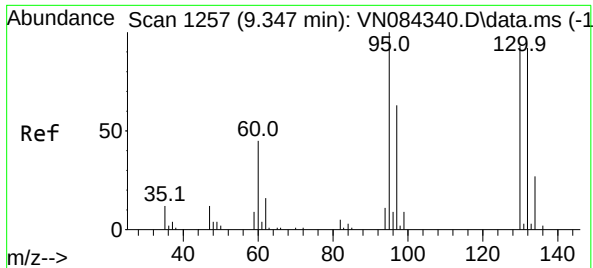


#36
1,2-Dichloroethane
Concen: 20.279 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37



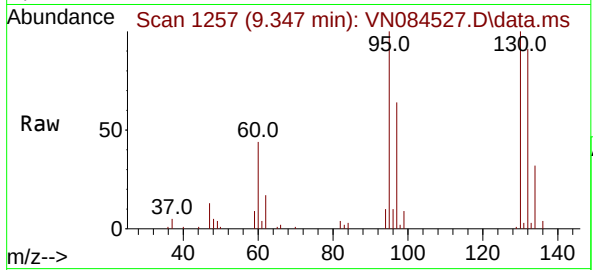
Tgt Ion: 62 Resp: 59295
Ion Ratio Lower Upper
62 100
98 9.7 7.3 10.9





#37
Trichloroethene
Concen: 19.729 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

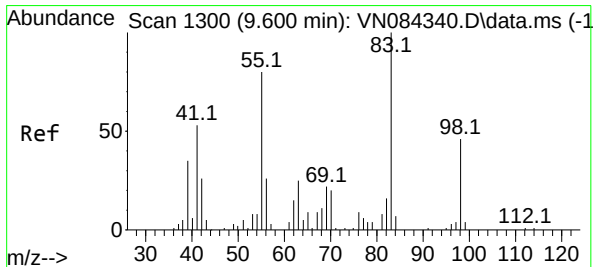
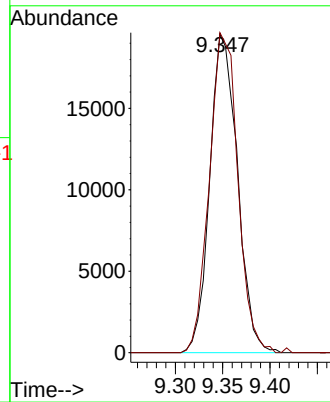
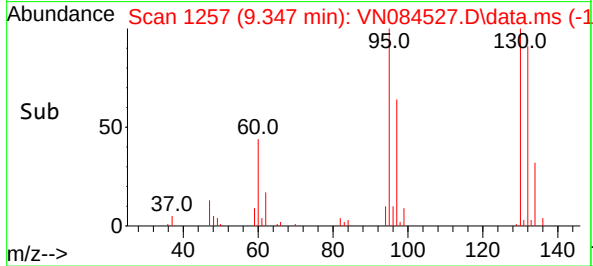
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:130 Resp: 3985
Ion Ratio Lower Upper
130 100
95 100.5 85.8 128.6

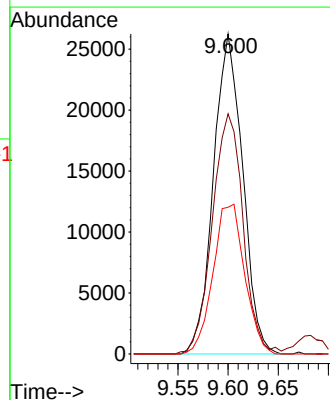
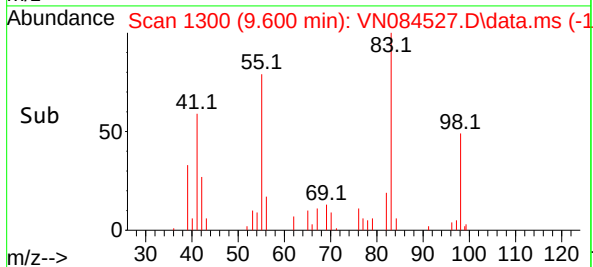
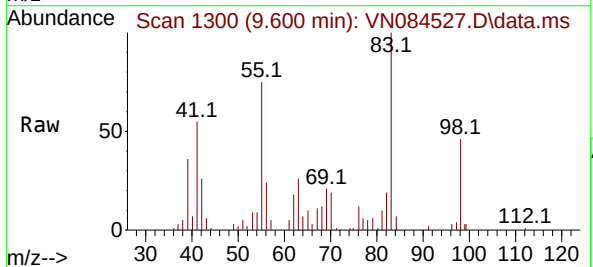
Manual Integrations
APPROVED

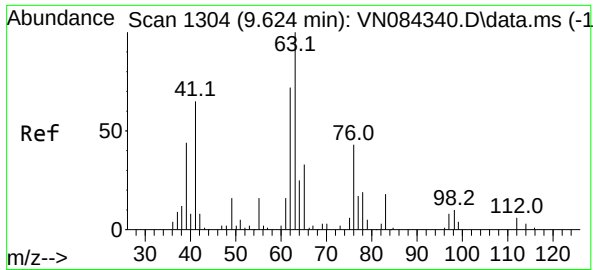
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#38
Methylcyclohexane
Concen: 17.289 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 83 Resp: 53218
Ion Ratio Lower Upper
83 100
55 79.0 39.3 117.8
98 50.7 24.0 72.0





#39

1,2-Dichloropropane

Concen: 19.777 ug/l

RT: 9.623 min Scan# 1304

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 63 Resp: 42300

Ion Ratio Lower Upper

63 100

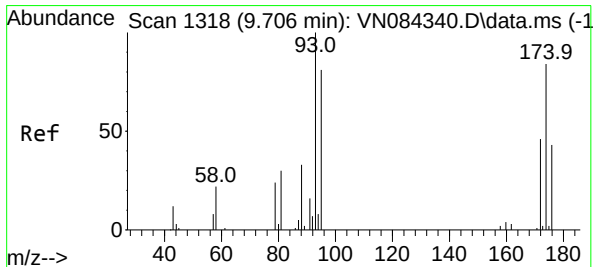
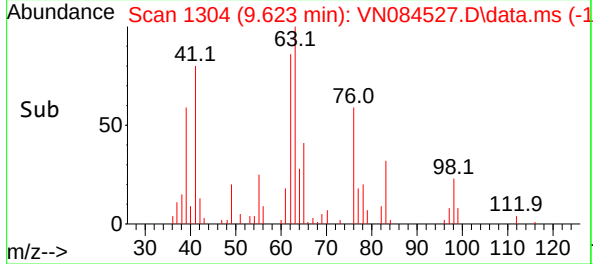
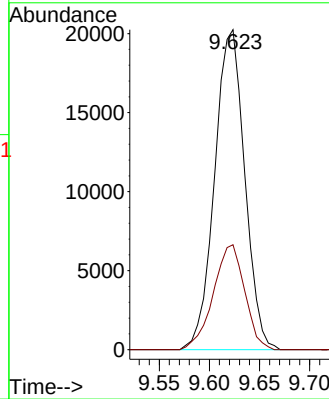
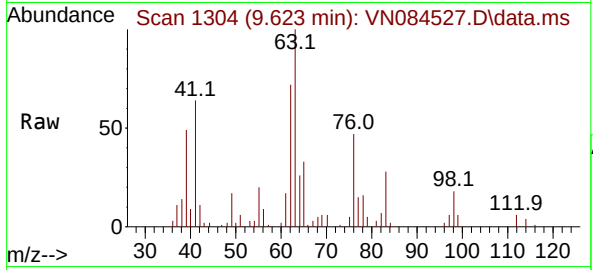
65 32.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#40

Dibromomethane

Concen: 19.691 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.006 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

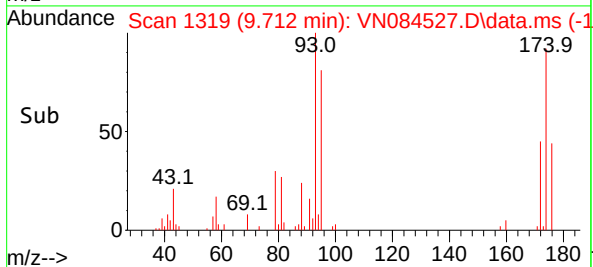
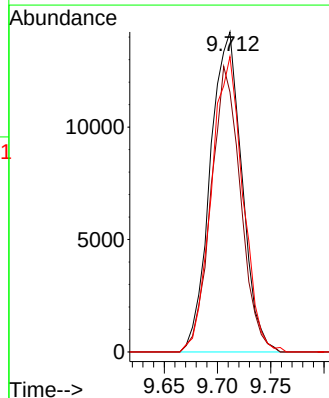
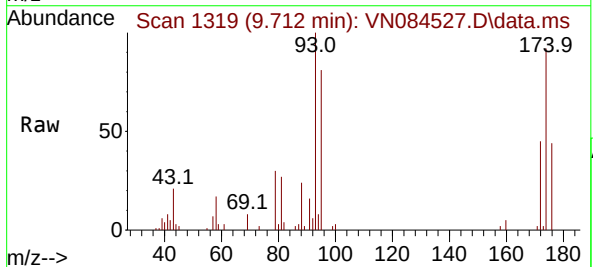
Tgt Ion: 93 Resp: 29439

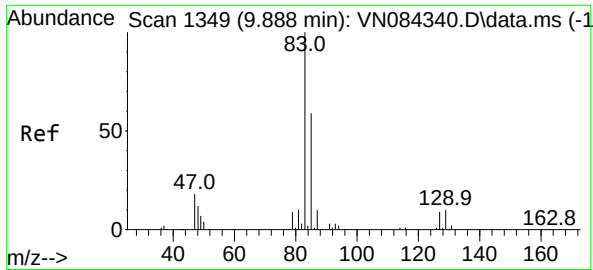
Ion Ratio Lower Upper

93 100

95 83.5 0.0 171.4

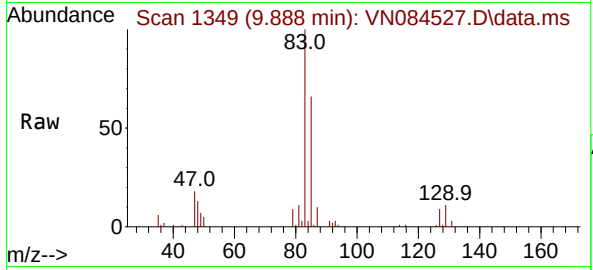
174 91.5 0.0 183.0





#41
Bromodichloromethane
Concen: 19.998 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

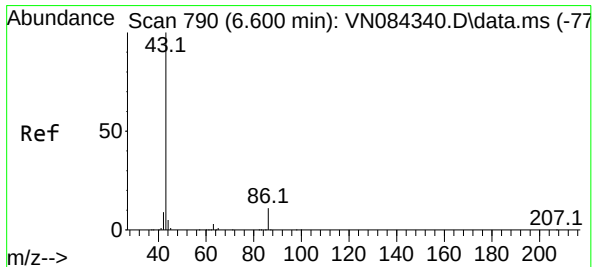
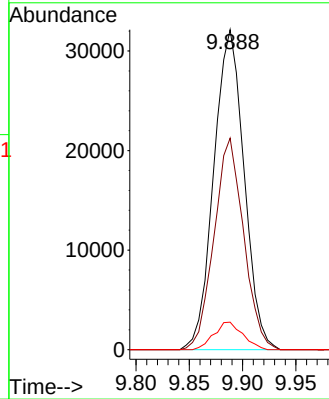
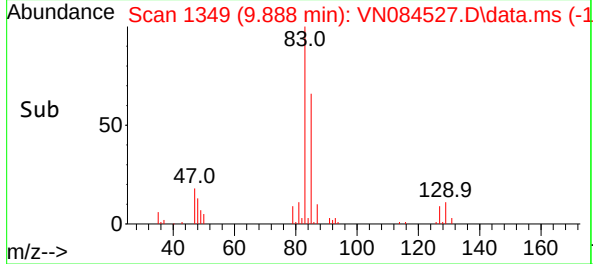
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 83 Resp: 63470
Ion Ratio Lower Upper
83 100
85 66.1 47.1 70.7
127 8.6 7.1 10.7

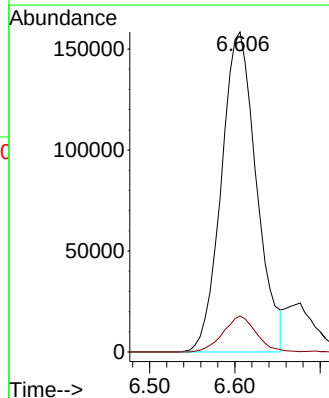
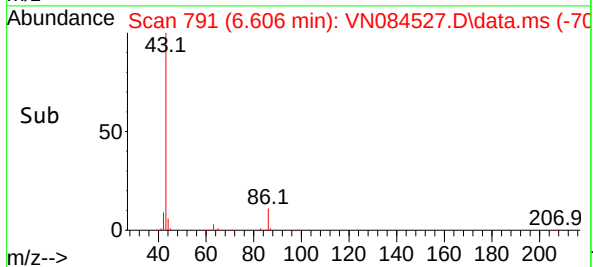
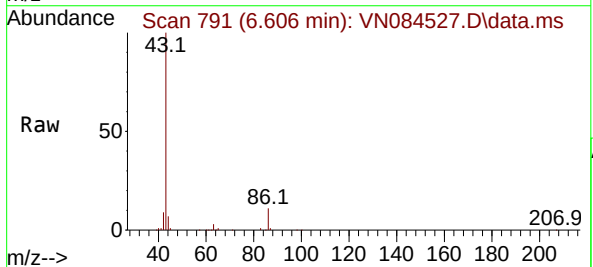
Manual Integrations
APPROVED

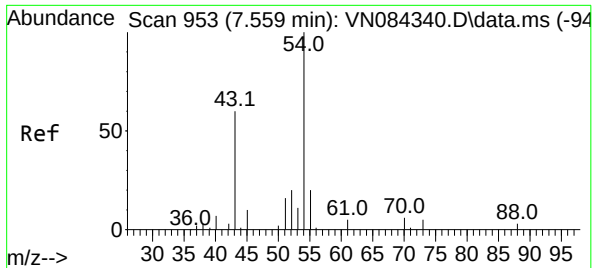
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#42
Vinyl Acetate
Concen: 87.500 ug/l
RT: 6.606 min Scan# 791
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 43 Resp: 454035
Ion Ratio Lower Upper
43 100
86 10.6 8.5 12.7





#43

Ethyl Acetate

Concen: 17.263 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 43 Resp: 50798

Ion Ratio Lower Upper

43 100

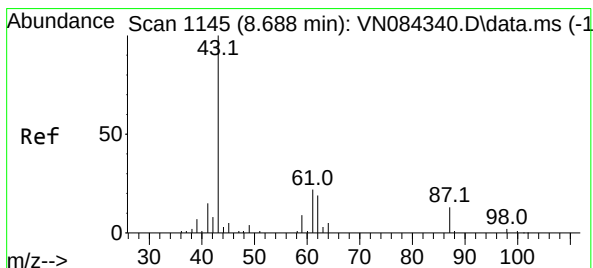
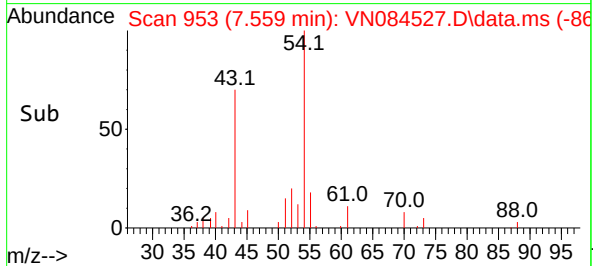
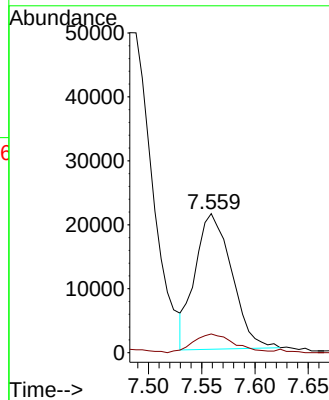
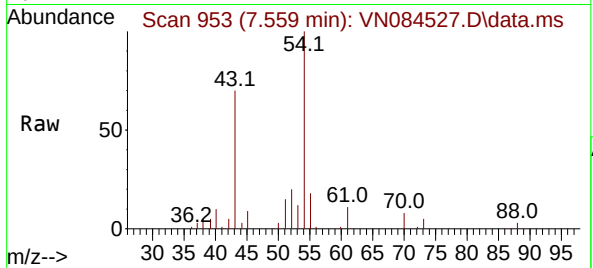
45 15.3 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#44

Isopropyl Acetate

Concen: 19.266 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN084527.D

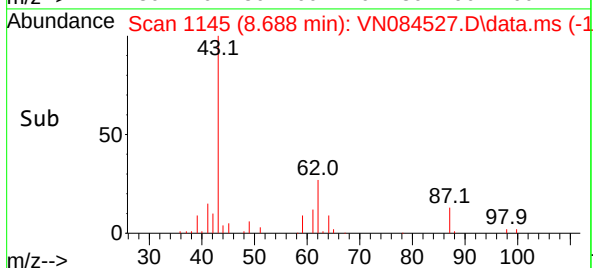
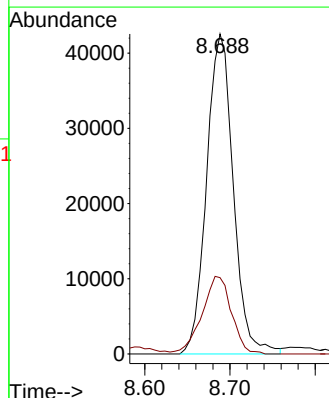
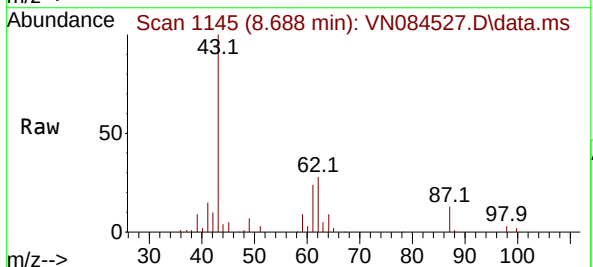
Acq: 25 Oct 2024 19:37

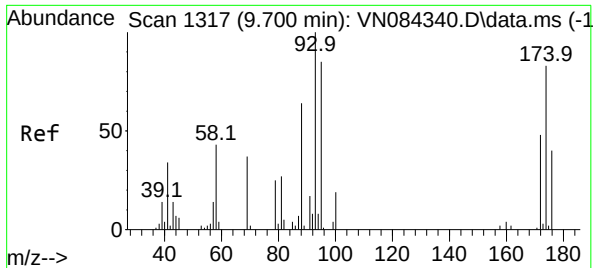
Tgt Ion: 43 Resp: 92788

Ion Ratio Lower Upper

43 100

61 25.3 21.4 32.2





#45

1,4-Dioxane

Concen: 369.015 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VN084527.D

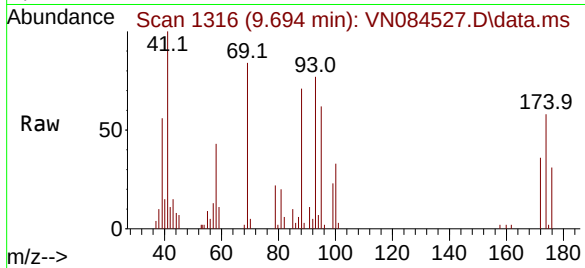
Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

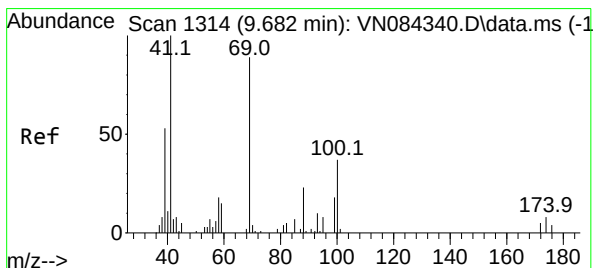
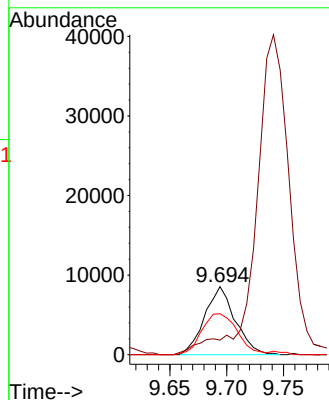
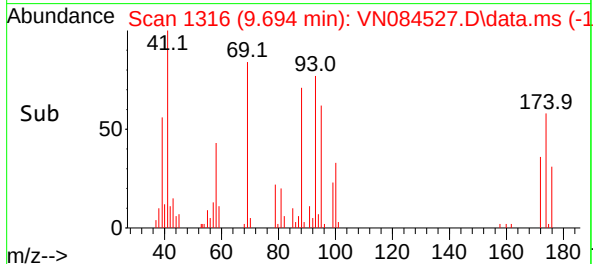


Tgt Ion: 88	Resp: 1602
Ion Ratio	Lower Upper
88	100
43	9.7 22.4 33.6
58	70.1 59.7 89.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#46

Methyl methacrylate

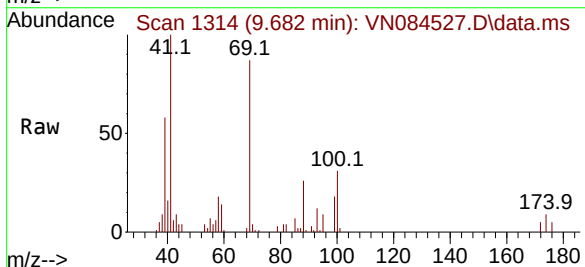
Concen: 18.395 ug/l

RT: 9.682 min Scan# 1314

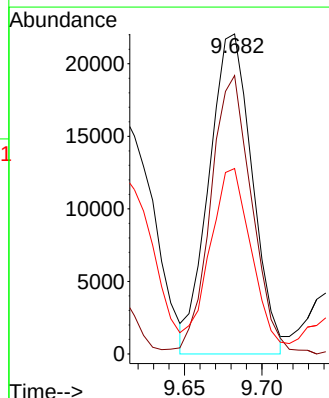
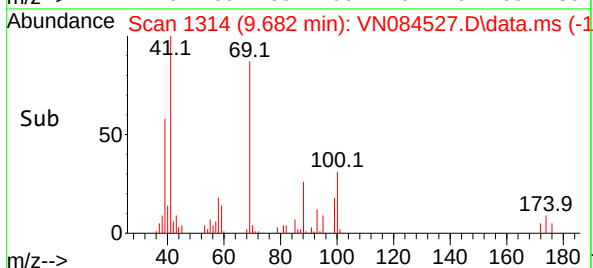
Delta R.T. -0.000 min

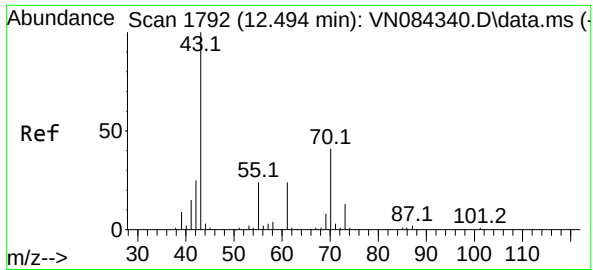
Lab File: VN084527.D

Acq: 25 Oct 2024 19:37



Tgt Ion: 41	Resp: 42804
Ion Ratio	Lower Upper
41	100
69	90.0 42.6 128.0
39	57.4 27.5 82.4





#47

n-amyl acetate

Concen: 18.307 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 43 Resp: 78420

Ion Ratio Lower Upper

43 100

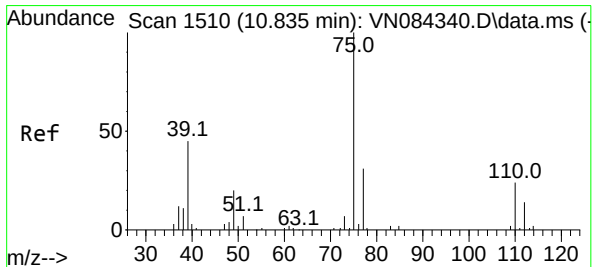
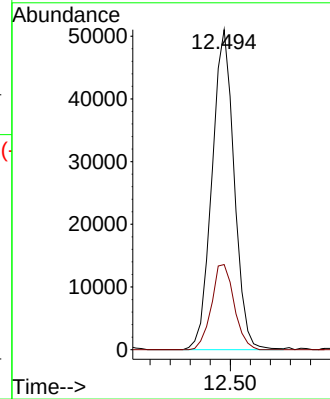
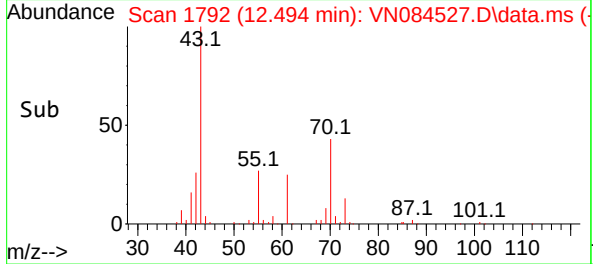
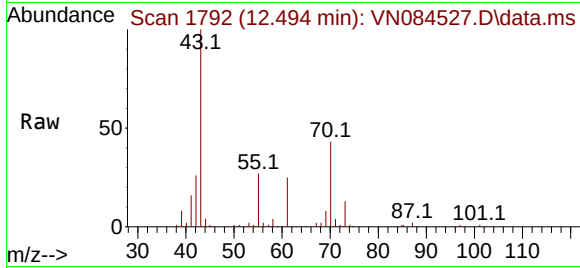
55 27.2 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#48

t-1,3-Dichloropropene

Concen: 18.236 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN084527.D

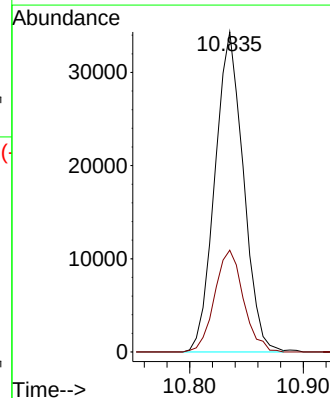
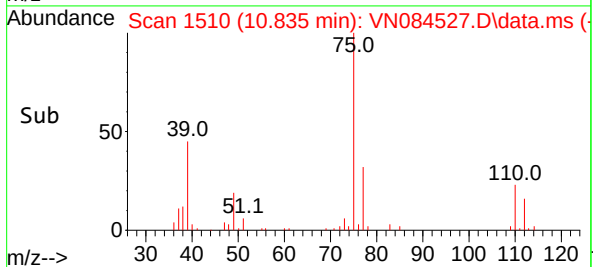
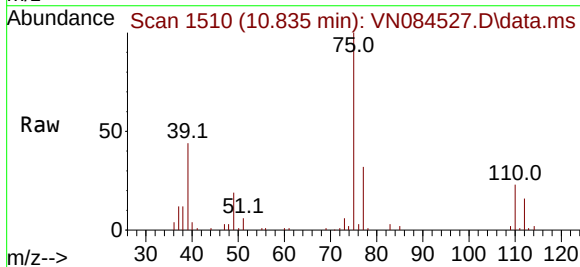
Acq: 25 Oct 2024 19:37

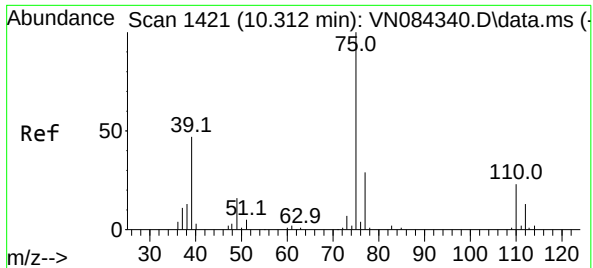
Tgt Ion: 75 Resp: 59808

Ion Ratio Lower Upper

75 100

77 31.8 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 18.913 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN084527.D

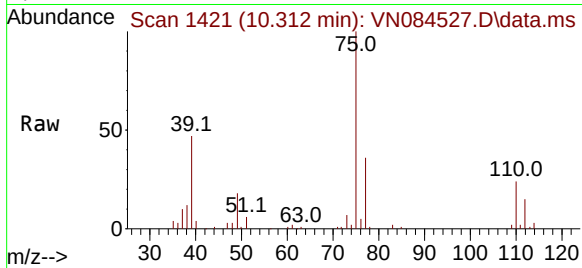
Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC



Tgt Ion: 75 Resp: 65000

Ion Ratio Lower Upper

75 100

77 36.0 22.9 34.3

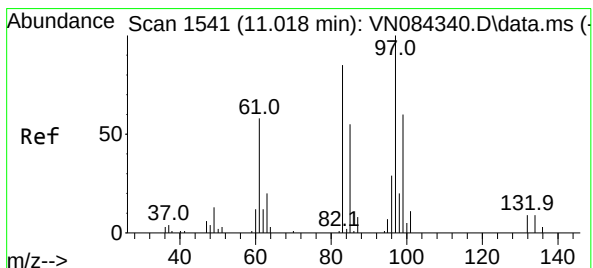
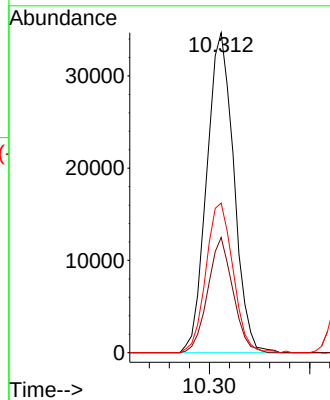
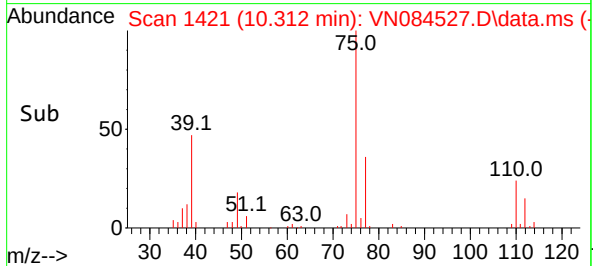
39 46.7 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#50

1,1,2-Trichloroethane

Concen: 20.399 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Tgt Ion: 97 Resp: 40992

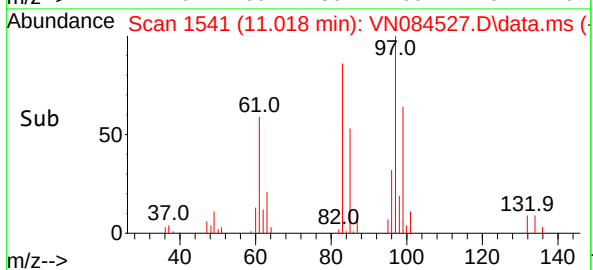
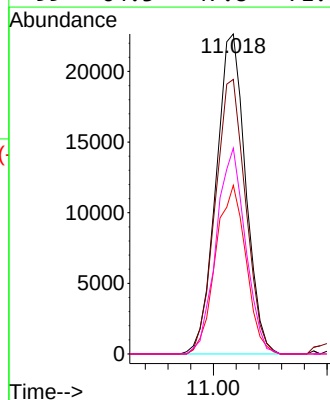
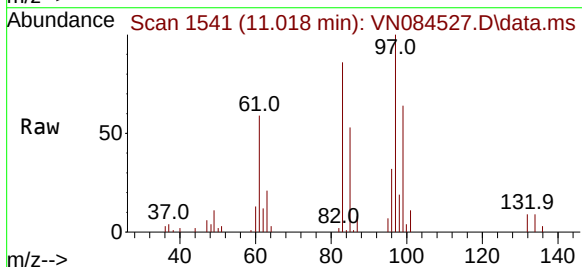
Ion Ratio Lower Upper

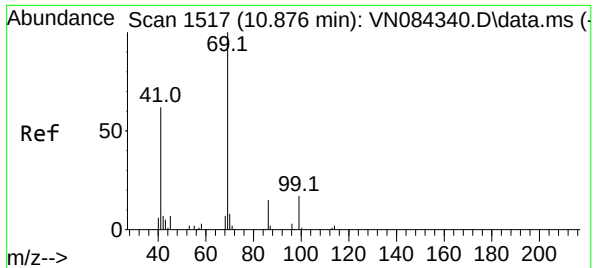
97 100

83 85.8 67.8 101.8

85 52.7 44.2 66.2

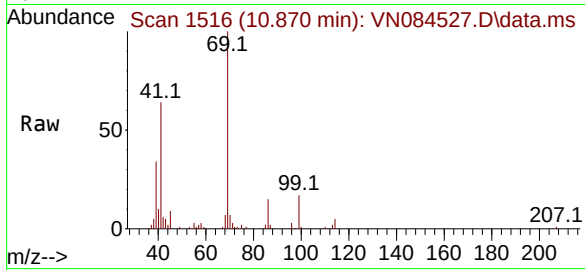
99 64.3 47.8 71.8





#51
Ethyl methacrylate
Concen: 18.717 ug/l
RT: 10.870 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

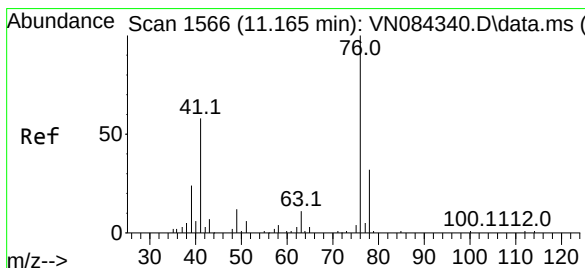
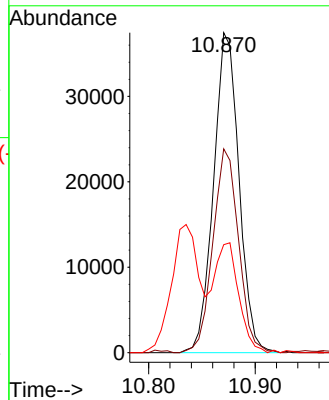
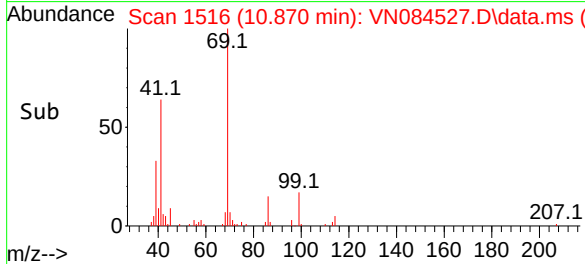
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 69 Resp: 62124
Ion Ratio Lower Upper
69 100
41 63.7 30.9 92.7
39 33.7 16.6 49.7

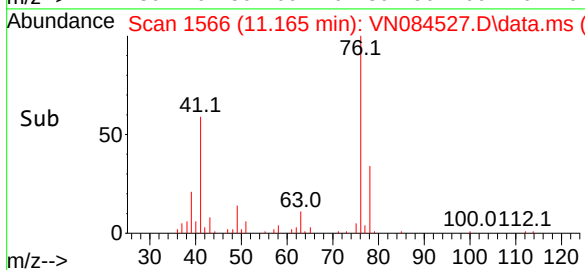
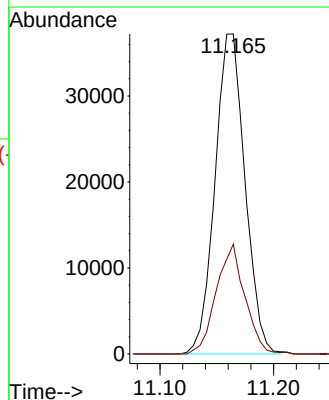
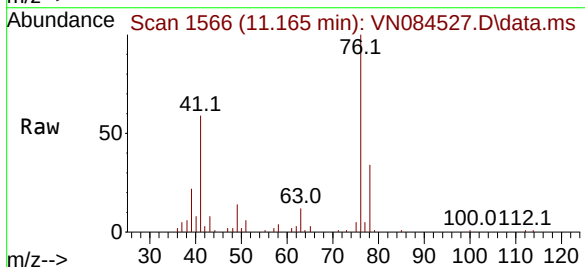
Manual Integrations
APPROVED

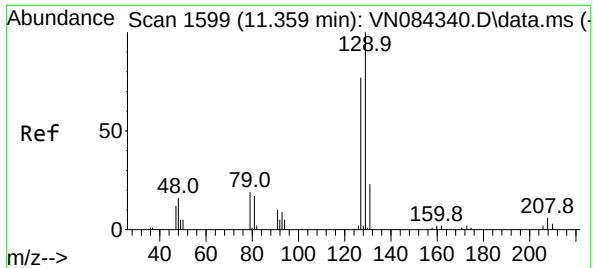
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#52
1,3-Dichloropropane
Concen: 19.446 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

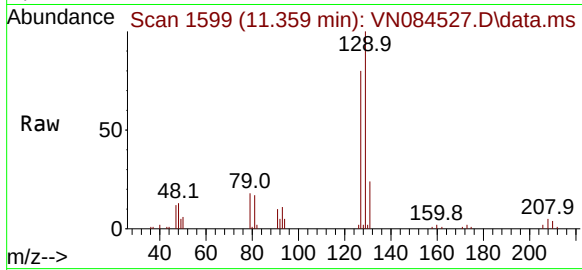
Tgt Ion: 76 Resp: 68327
Ion Ratio Lower Upper
76 100
78 32.6 0.0 64.2





#53
Dibromochloromethane
Concen: 20.274 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

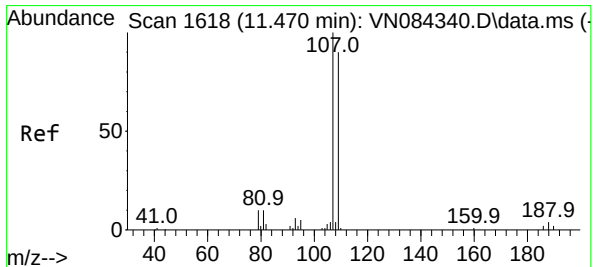
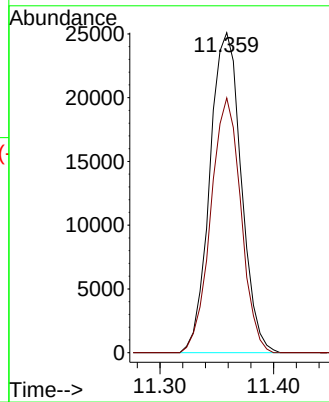
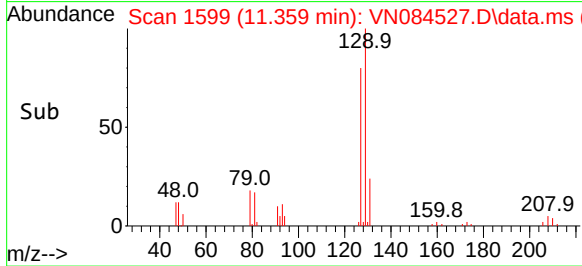
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



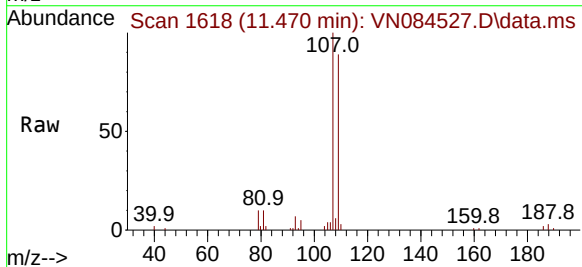
Tgt Ion:129 Resp: 48120
Ion Ratio Lower Upper
129 100
127 76.5 38.5 115.5

Manual Integrations
APPROVED

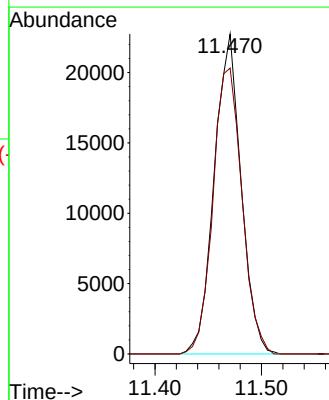
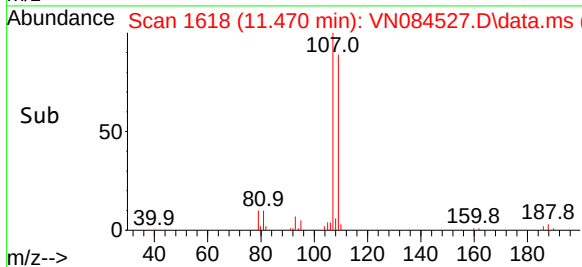
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

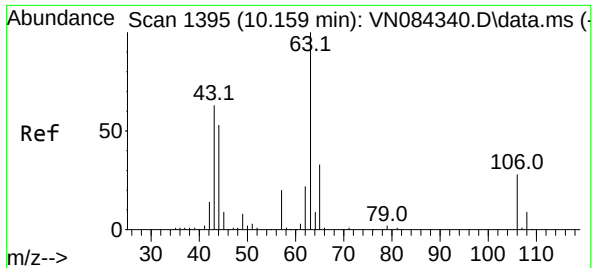


#54
1,2-Dibromoethane
Concen: 19.261 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37



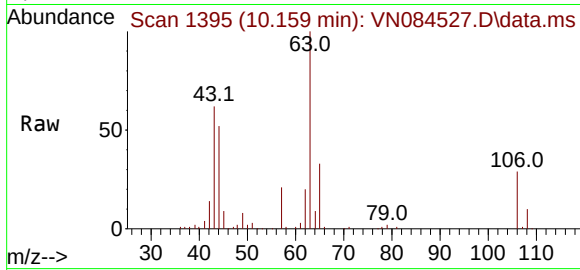
Tgt Ion:107 Resp: 39841
Ion Ratio Lower Upper
107 100
109 96.4 73.8 110.6





#55
2-Chloroethyl vinyl ether
Concen: 96.799 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

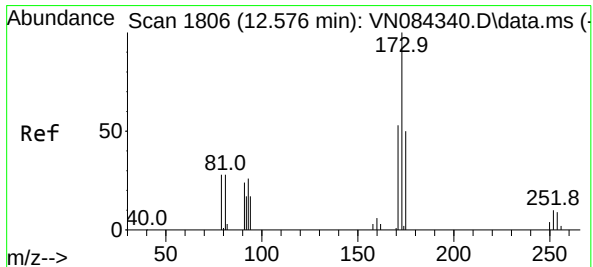
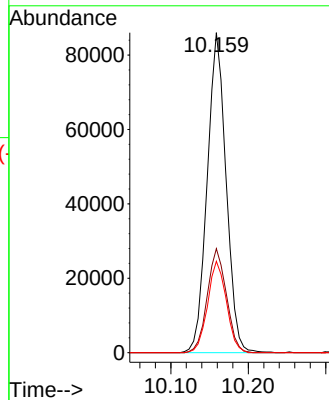
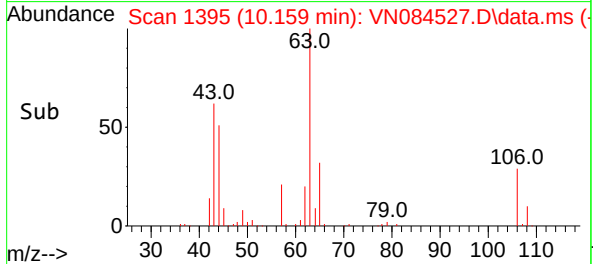
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 63 Resp: 145723
Ion Ratio Lower Upper
63 100
65 32.9 25.6 38.4
106 28.4 21.6 32.4

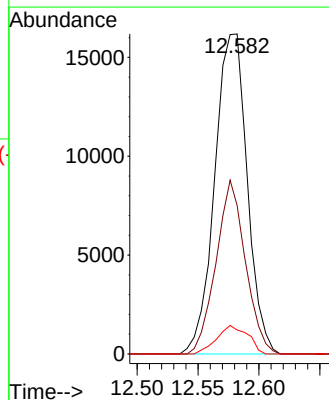
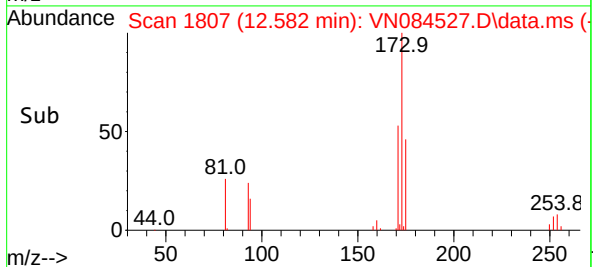
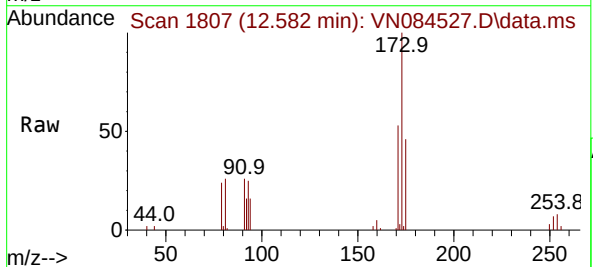
Manual Integrations
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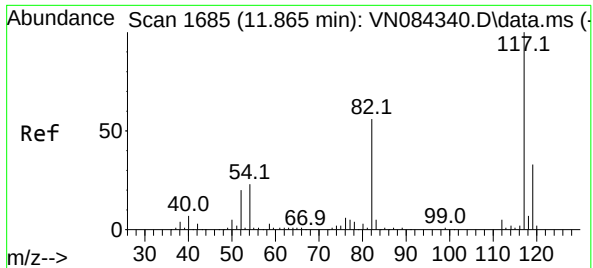
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#56
Bromoform
Concen: 19.086 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

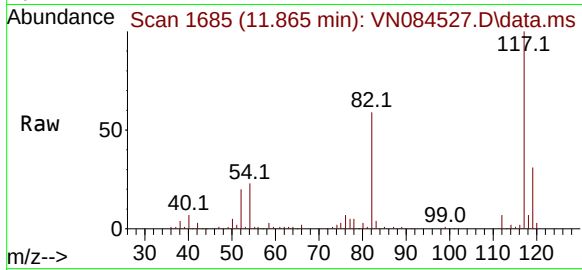
Tgt Ion:173 Resp: 30049
Ion Ratio Lower Upper
173 100
175 49.0 39.4 59.2
254 8.5 6.8 10.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

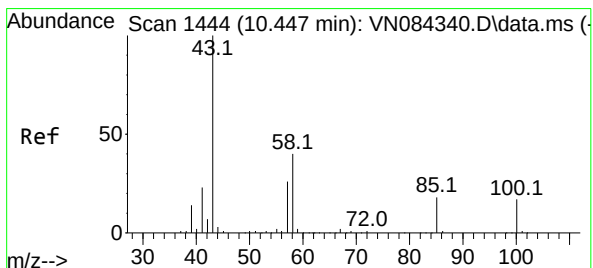
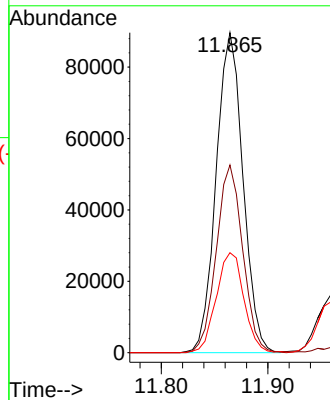
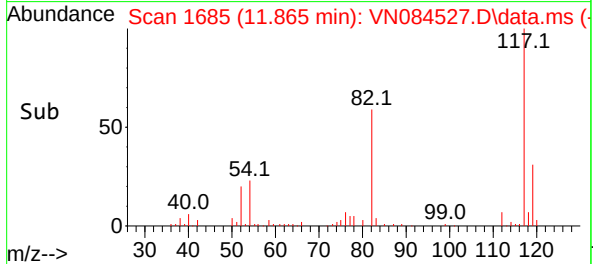
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:117 Resp: 157070
Ion Ratio Lower Upper
117 100
82 57.7 46.2 69.4
119 32.1 25.4 38.2

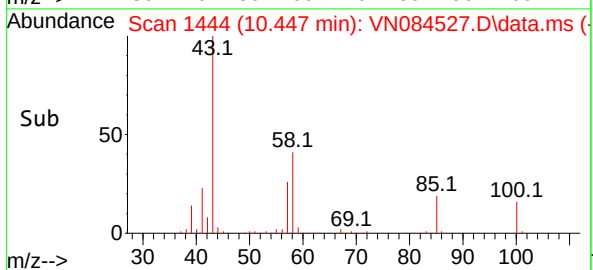
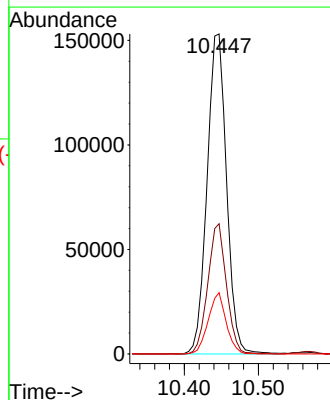
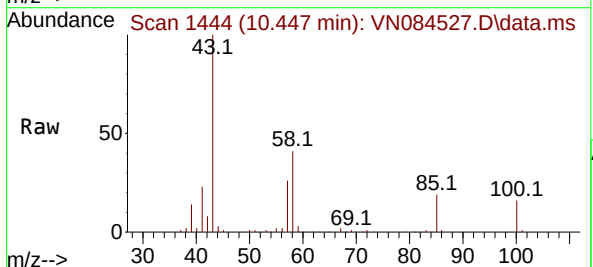
Manual Integrations
APPROVED

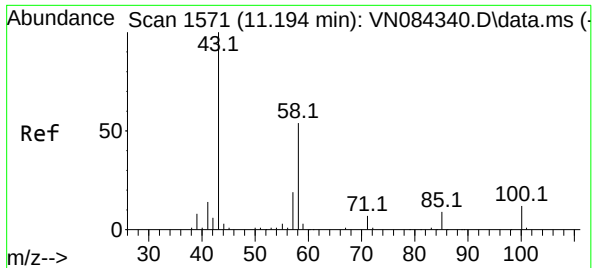
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#58
4-Methyl-2-Pentanone
Concen: 95.601 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 43 Resp: 279735
Ion Ratio Lower Upper
43 100
58 39.0 31.9 47.9
85 17.7 14.6 22.0





#59

2-Hexanone

Concen: 92.927 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 43 Resp: 202052

Ion Ratio Lower Upper

43

100

58

57

54.4 44.0 66.0

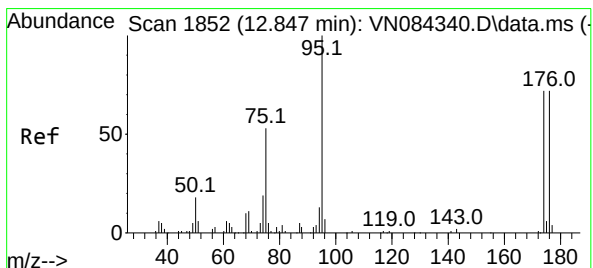
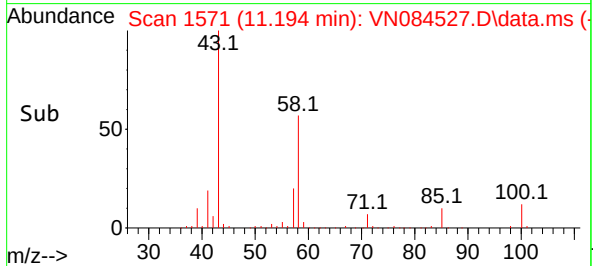
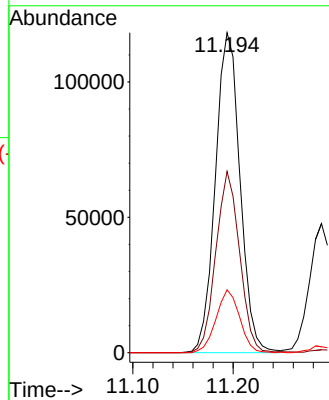
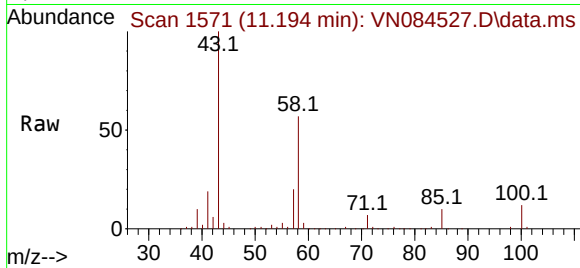
18.8 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#60

4-Bromofluorobenzene

Concen: 29.657 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Tgt Ion: 95 Resp: 76884

Ion Ratio Lower Upper

95

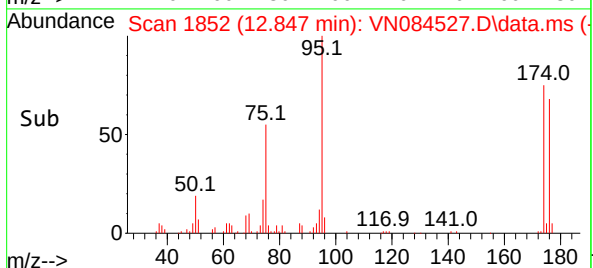
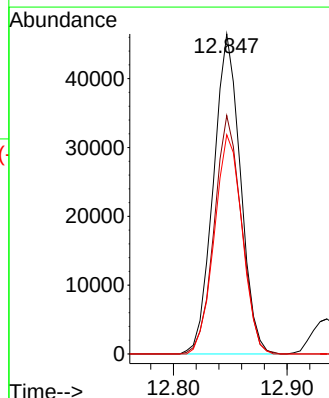
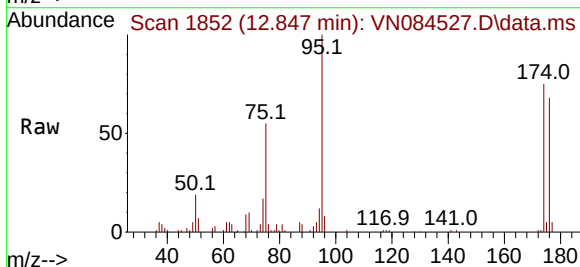
100

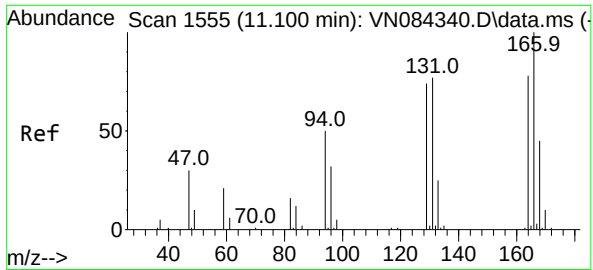
174

176

75.1 58.2 87.2

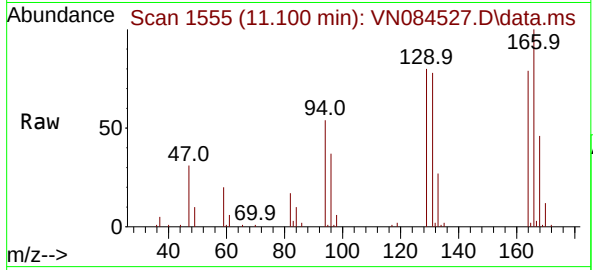
70.7 56.4 84.6





#61
Tetrachloroethene
Concen: 20.663 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

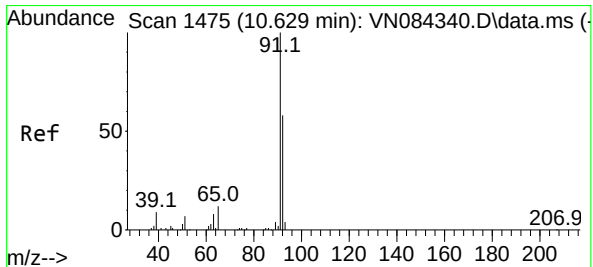
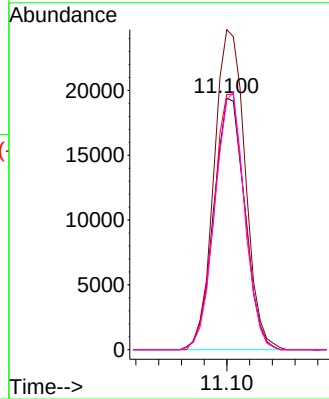
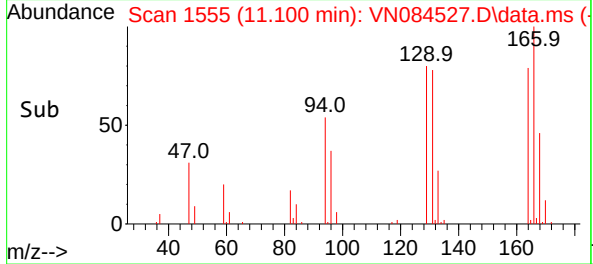
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



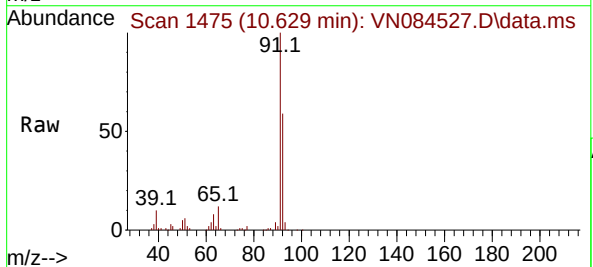
Tgt Ion:164 Resp: 3671
Ion Ratio Lower Upper
164 100
166 127.3 102.5 153.7
129 101.6 75.7 113.5
131 99.3 78.2 117.4

Manual Integrations
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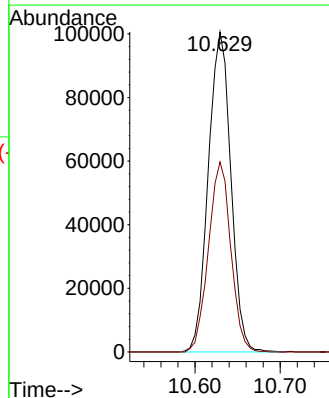
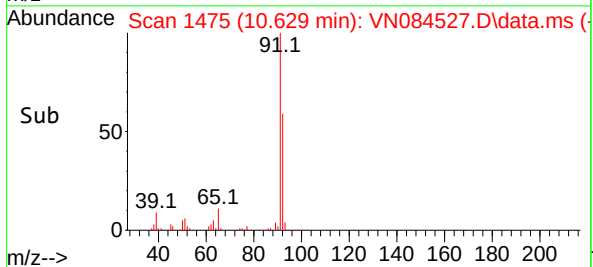
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

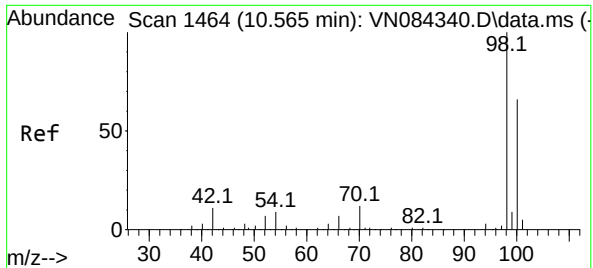


#62
Toluene
Concen: 20.155 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37



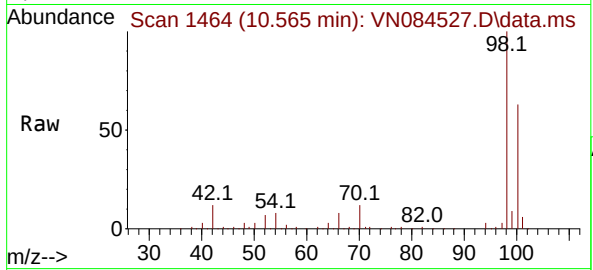
Tgt Ion: 91 Resp: 185332
Ion Ratio Lower Upper
91 100
92 58.9 47.2 70.8





#63
Toluene-d8
Concen: 30.159 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

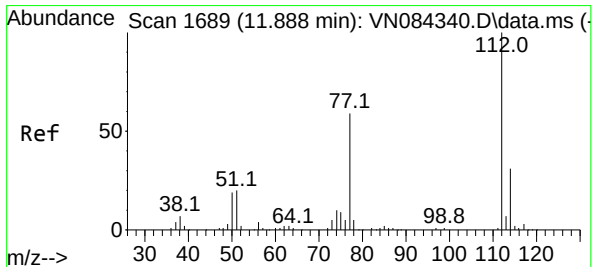
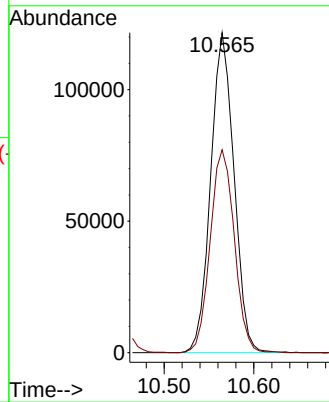
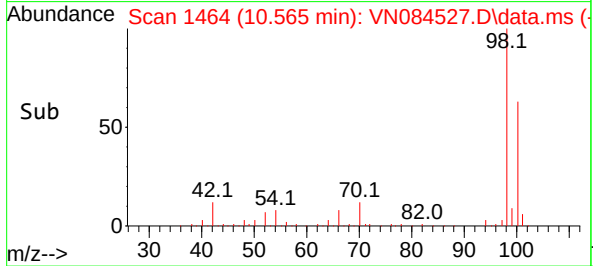
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 98 Resp: 219459
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7

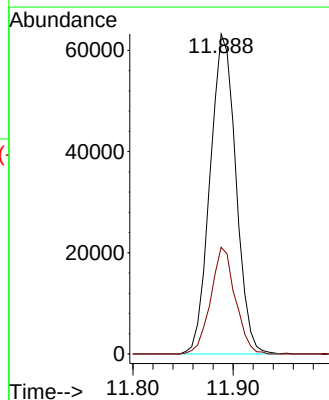
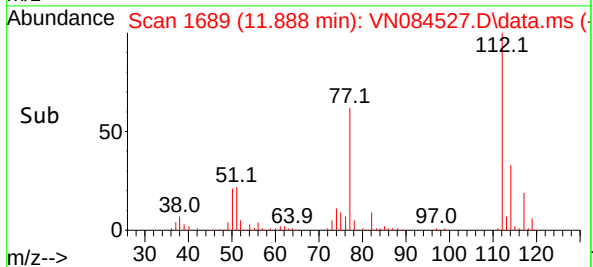
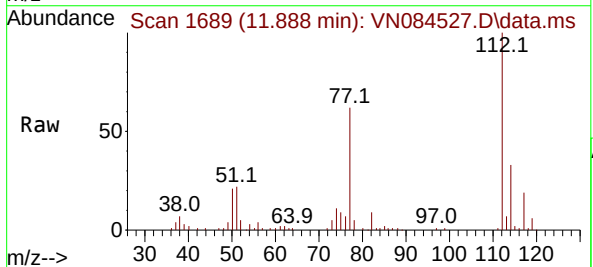
Manual Integrations
APPROVED

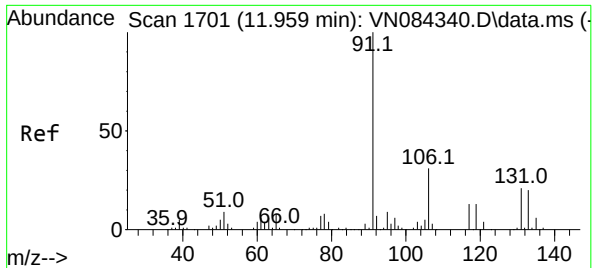
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#64
Chlorobenzene
Concen: 19.775 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

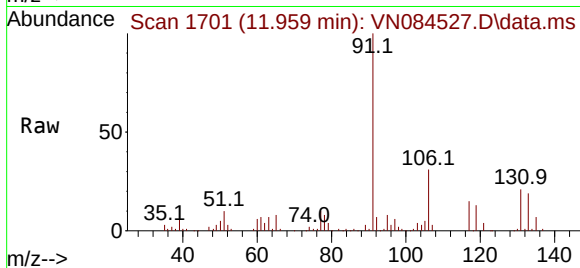
Tgt Ion:112 Resp: 113160
Ion Ratio Lower Upper
112 100
114 33.4 25.1 37.7





#65
1,1,1,2-Tetrachloroethane
Concen: 20.444 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

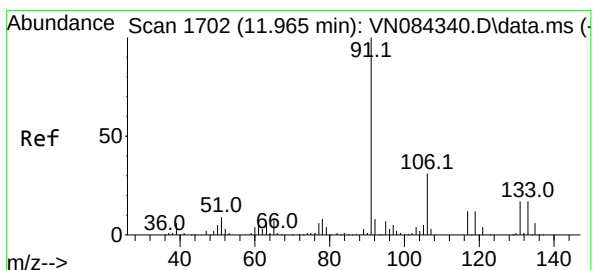
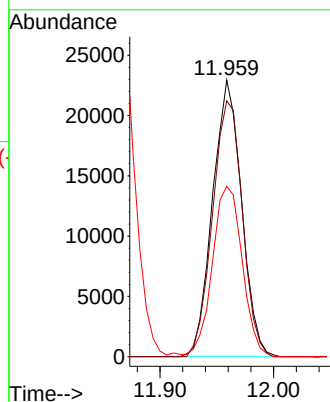
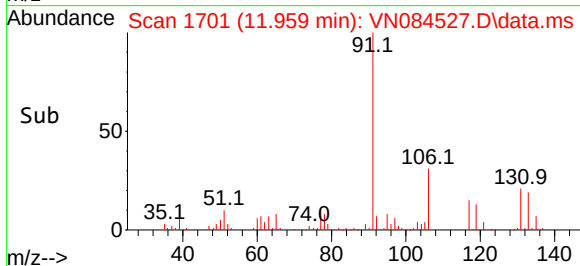
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:131 Resp: 4064
Ion Ratio Lower Upper
131 100
133 95.4 0.0 190.4
119 63.5 0.0 130.0

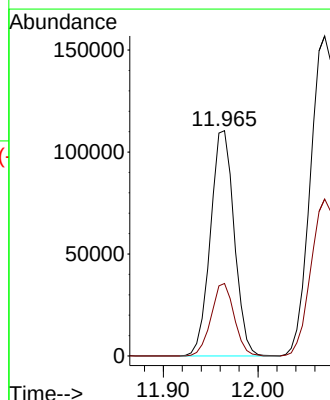
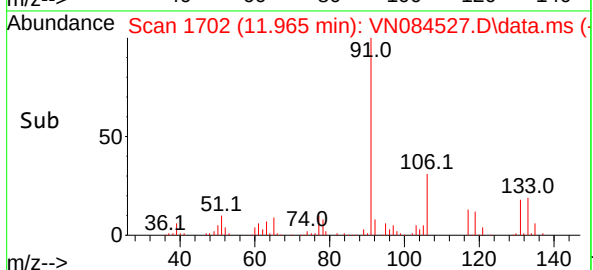
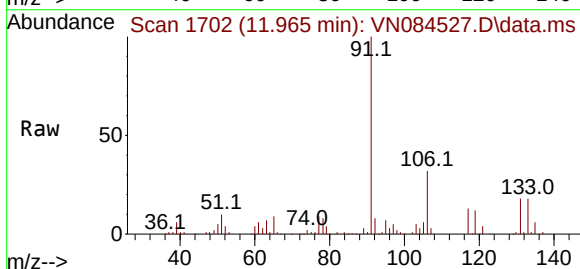
Manual Integrations
APPROVED

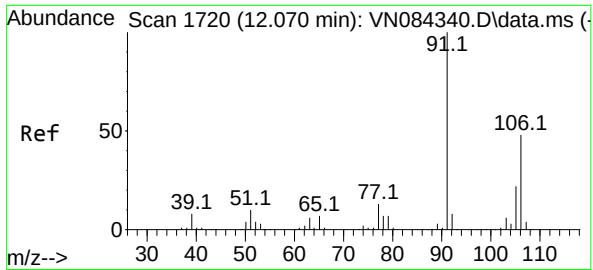
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#66
Ethyl Benzene
Concen: 19.272 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

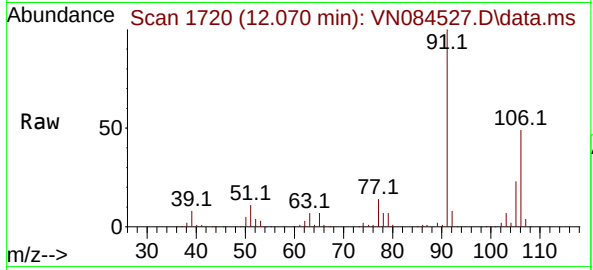
Tgt Ion: 91 Resp: 192535
Ion Ratio Lower Upper
91 100
106 32.1 25.2 37.8





#67
m/p-Xylenes
Concen: 39.725 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

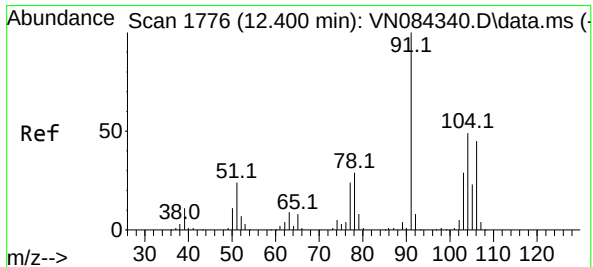
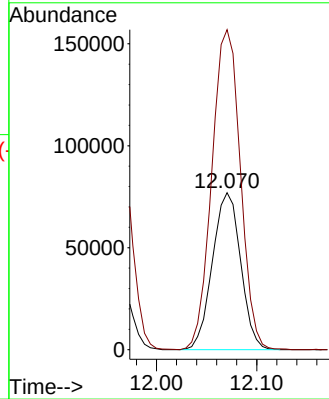
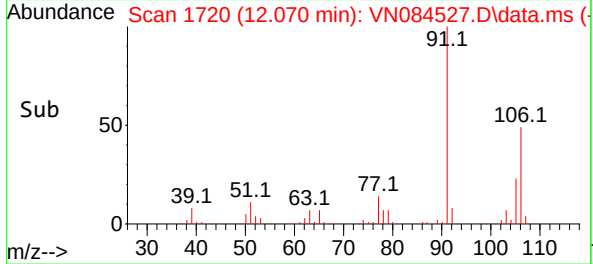
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:106 Resp: 150550
Ion Ratio Lower Upper
106 100
91 206.1 166.7 250.1

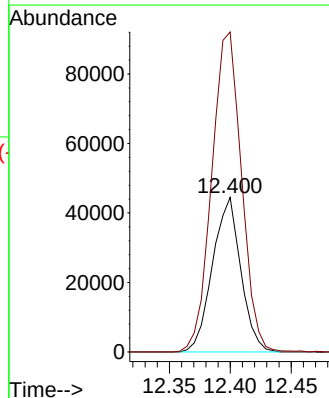
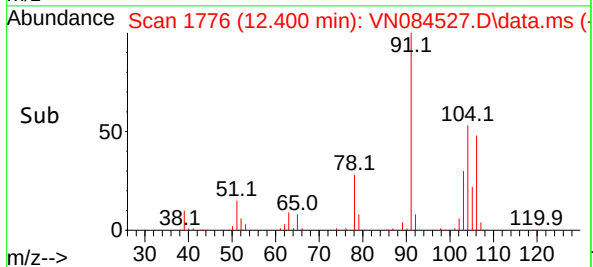
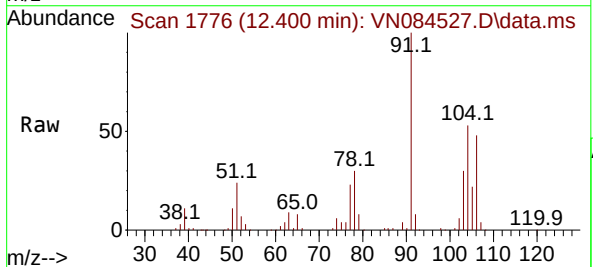
Manual Integrations
APPROVED

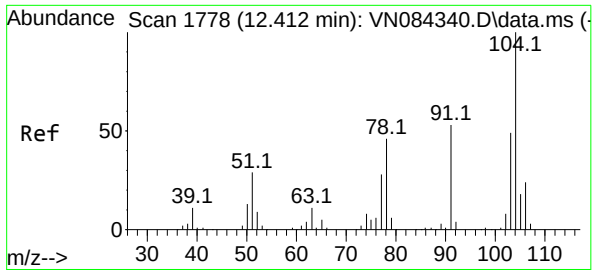
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#68
o-Xylene
Concen: 19.660 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion:106 Resp: 71820
Ion Ratio Lower Upper
106 100
91 217.8 110.9 332.9





#69

Styrene

Concen: 19.558 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

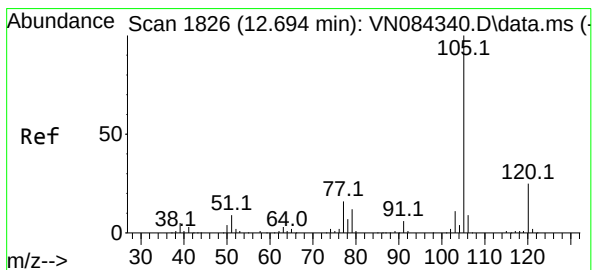
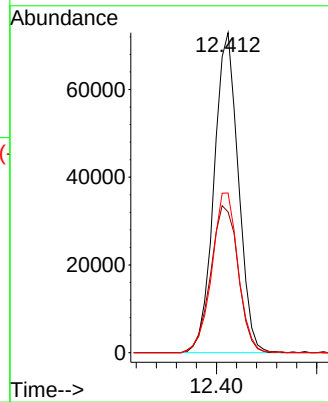
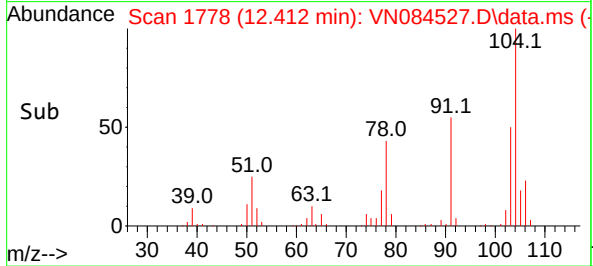
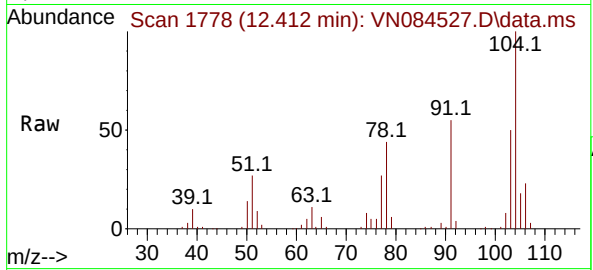
VSTDCCC020EC

Tgt Ion:104	Resp:	122640
Ion Ratio	Lower	Upper
104	100	
78	52.0	41.6 62.4
103	53.8	44.4 66.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#70

Isopropylbenzene

Concen: 19.247 ug/l

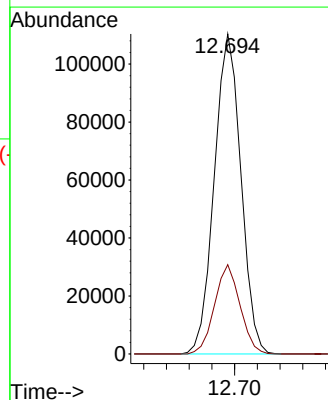
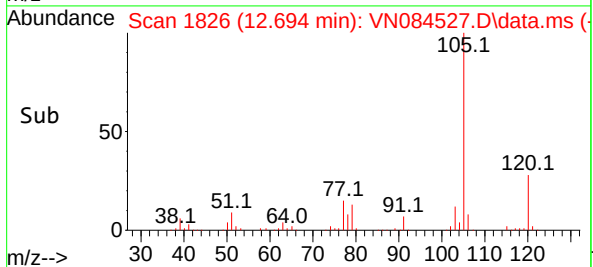
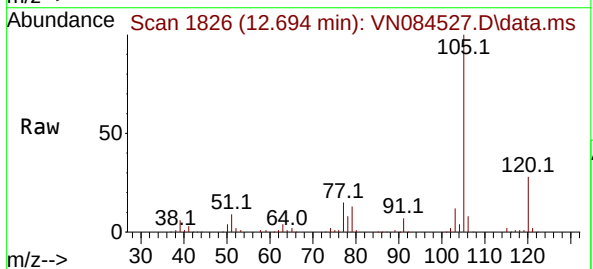
RT: 12.694 min Scan# 1826

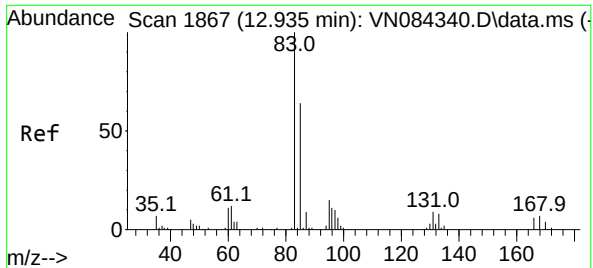
Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

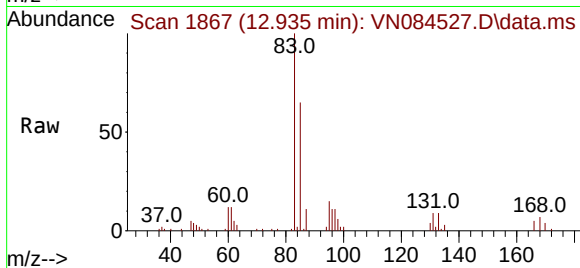
Tgt Ion:105	Resp:	179492
Ion Ratio	Lower	Upper
105	100	
120	26.7	17.4 32.4





#71
1,1,2,2-Tetrachloroethane
Concen: 19.873 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

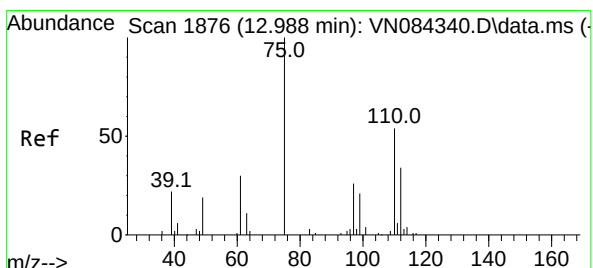
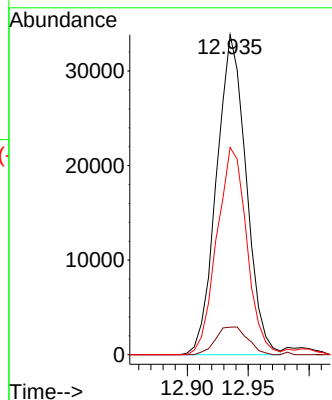
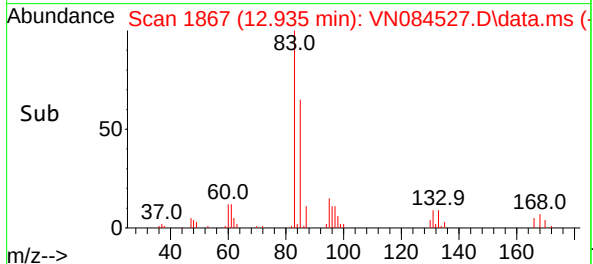
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 83 Resp: 5733
Ion Ratio Lower Upper
83 100
131 9.4 5.1 15.3
85 65.4 32.0 96.2

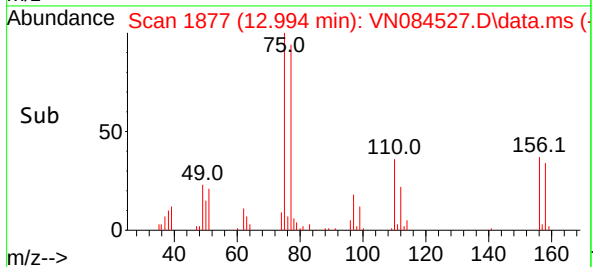
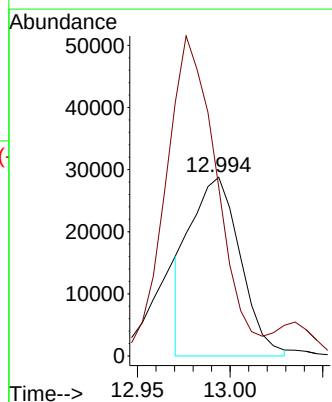
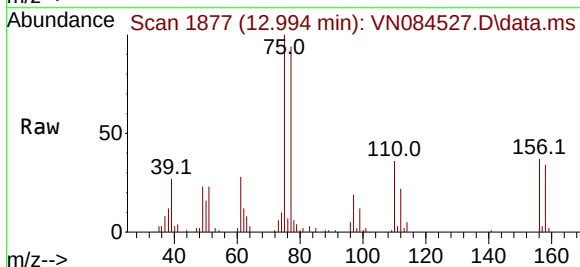
Manual Integrations
APPROVED

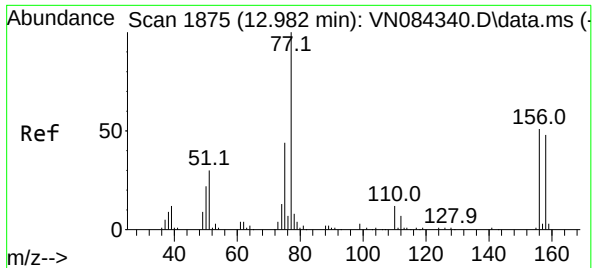
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#72
1,2,3-Trichloropropane
Concen: 21.807 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

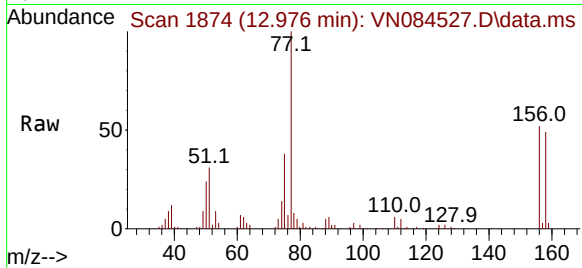
Tgt Ion: 75 Resp: 53881
Ion Ratio Lower Upper
75 100
77 184.3 0.0 414.0





#73
Bromobenzene
Concen: 20.557 ug/l
RT: 12.976 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

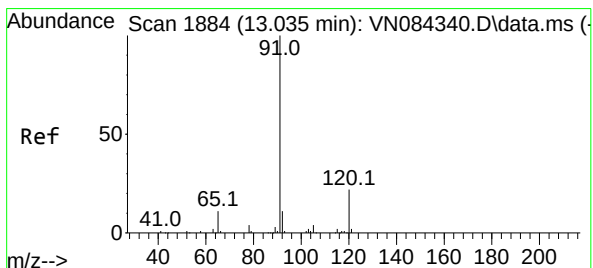
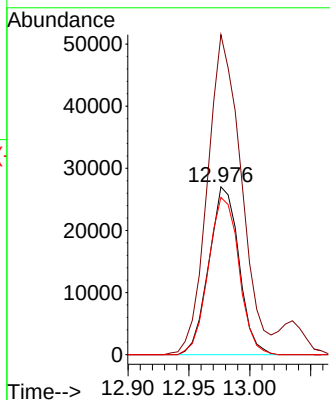
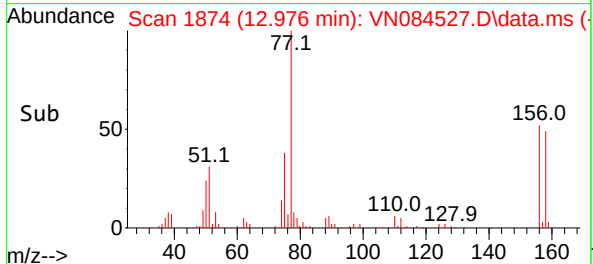
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:156 Resp: 46430
Ion Ratio Lower Upper
156 100
77 213.8 0.0 451.0
158 95.3 0.0 194.6

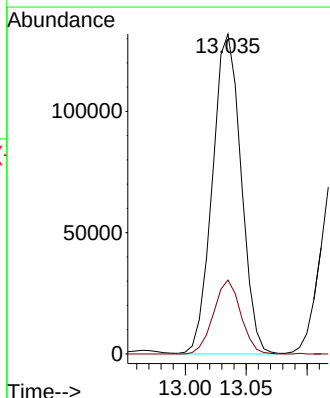
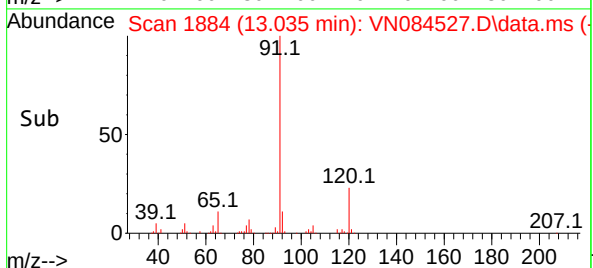
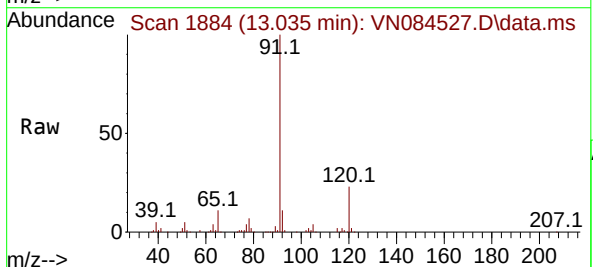
Manual Integrations
APPROVED

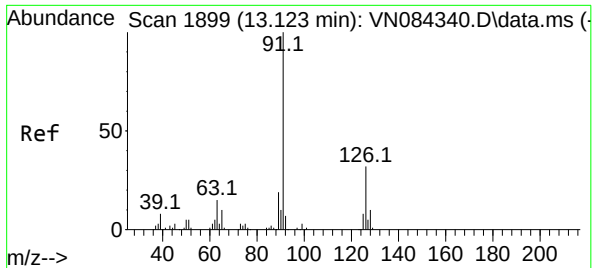
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#74
n-propylbenzene
Concen: 19.439 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion: 91 Resp: 216025
Ion Ratio Lower Upper
91 100
120 21.9 0.0 43.2





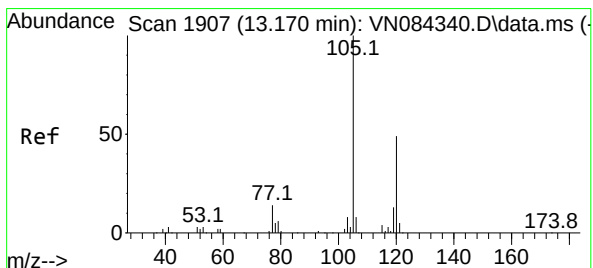
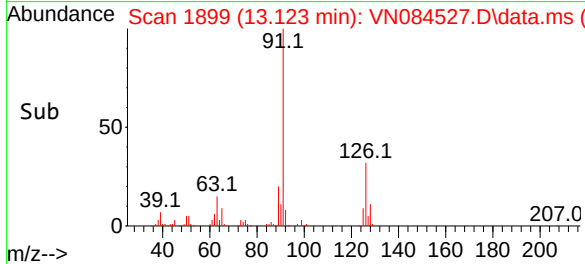
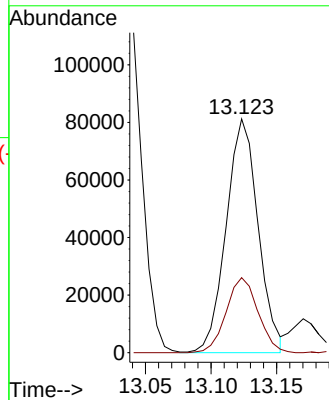
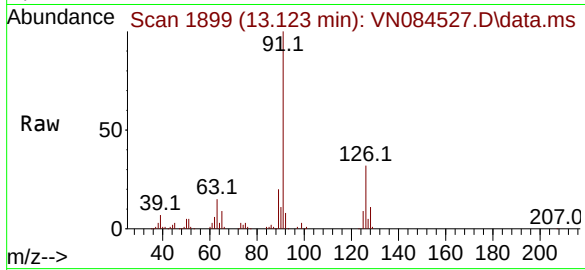
#75
2-Chlorotoluene
Concen: 19.943 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 91 Resp: 137724
Ion Ratio Lower Upper
91 100
126 31.9 0.0 64.0

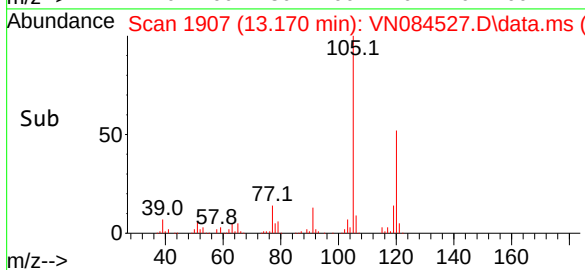
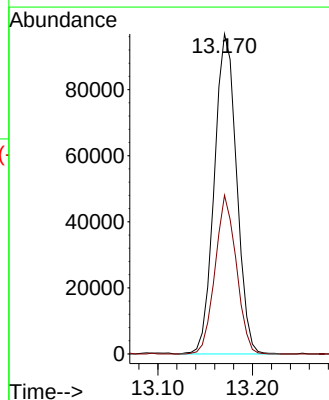
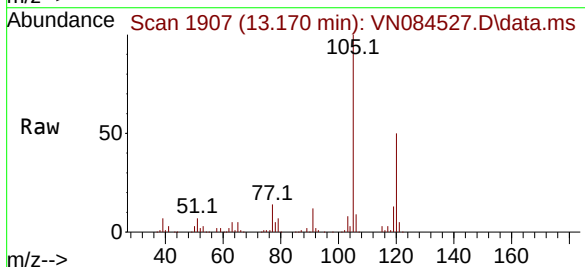
Manual Integrations
APPROVED

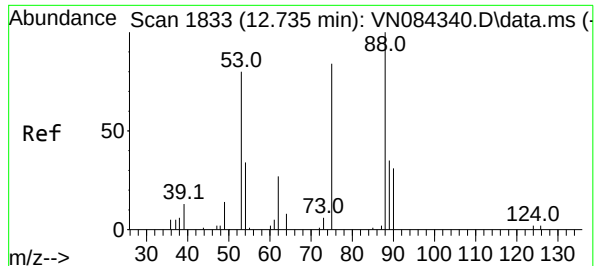
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#76
1,3,5-Trimethylbenzene
Concen: 20.164 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion:105 Resp: 158334
Ion Ratio Lower Upper
105 100
120 47.2 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 16.149 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 75 Resp: 17050

Ion Ratio Lower Upper

75 100

53 102.0 47.3 142.0

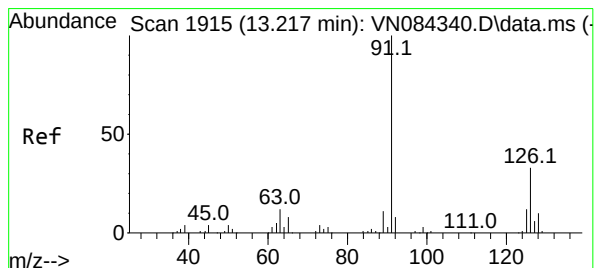
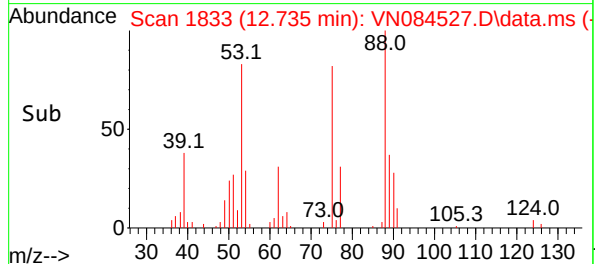
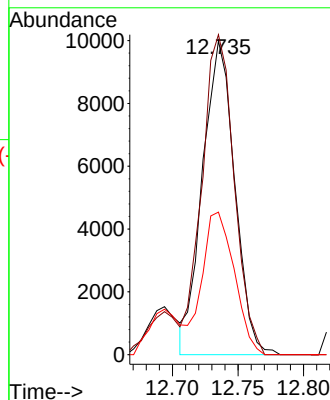
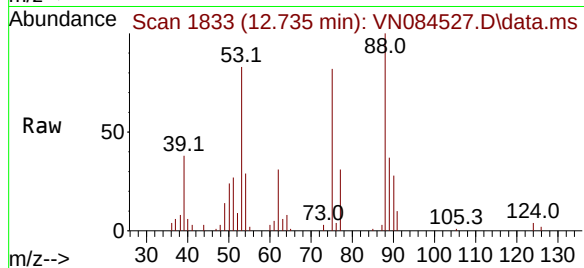
89 45.4 22.9 68.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#78

4-Chlorotoluene

Concen: 19.623 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN084527.D

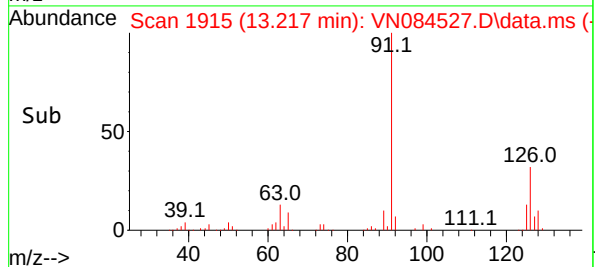
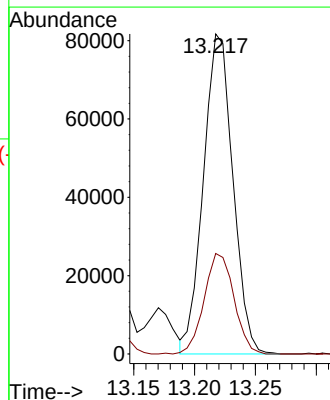
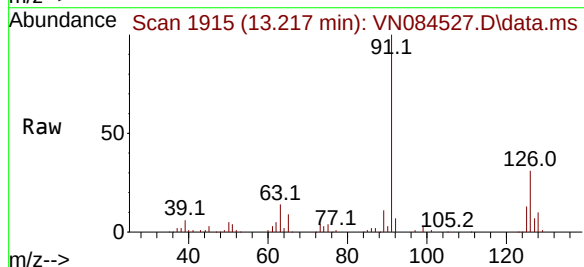
Acq: 25 Oct 2024 19:37

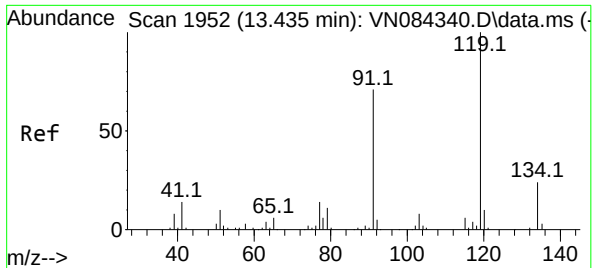
Tgt Ion: 91 Resp: 137774

Ion Ratio Lower Upper

91 100

126 31.7 0.0 62.4





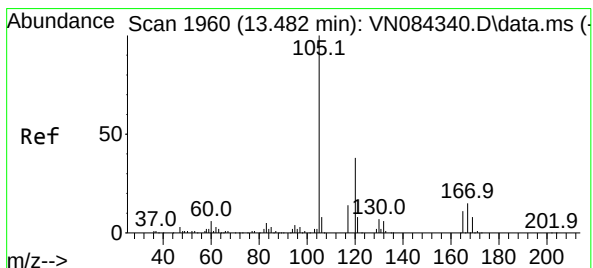
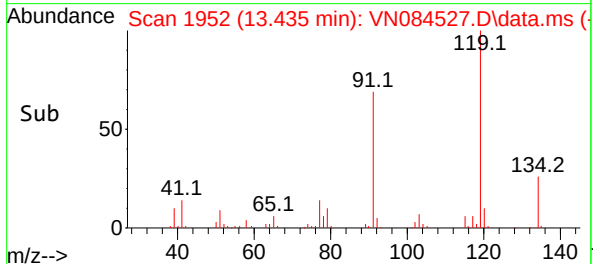
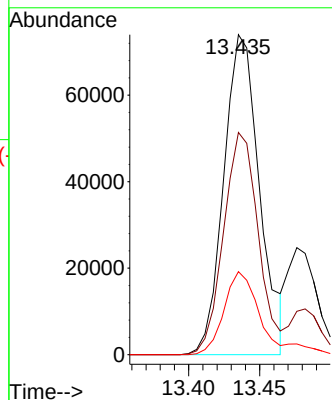
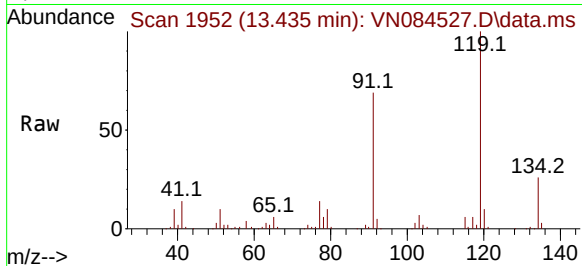
#79
tert-butylbenzene
Concen: 19.353 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:119 Resp: 129645
Ion Ratio Lower Upper
119 100
91 67.6 0.0 138.0
134 24.5 0.0 48.8

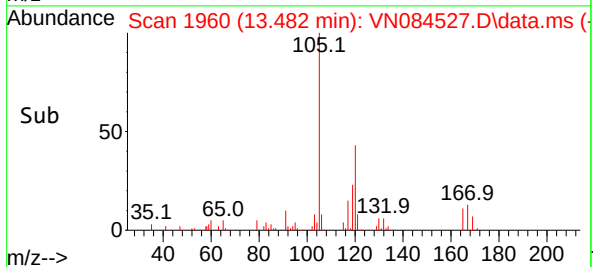
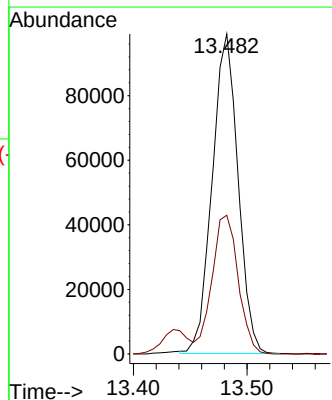
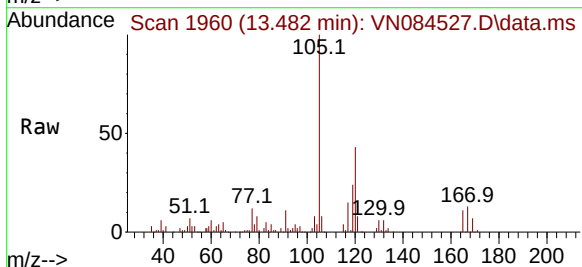
Manual Integrations
APPROVED

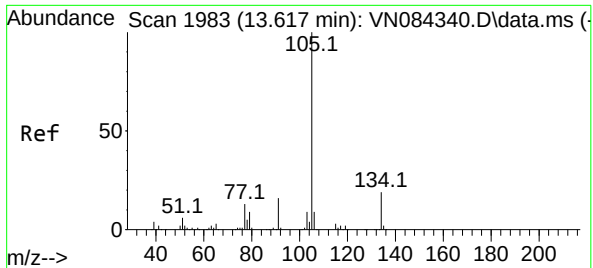
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#80
1,2,4-Trimethylbenzene
Concen: 19.607 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion:105 Resp: 156217
Ion Ratio Lower Upper
105 100
120 44.2 0.0 88.8





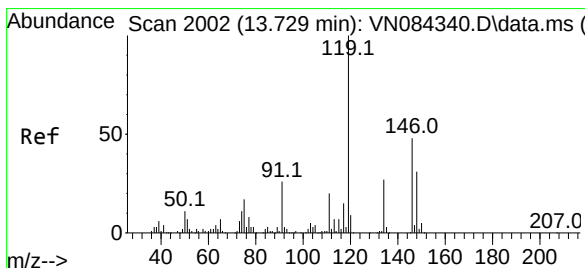
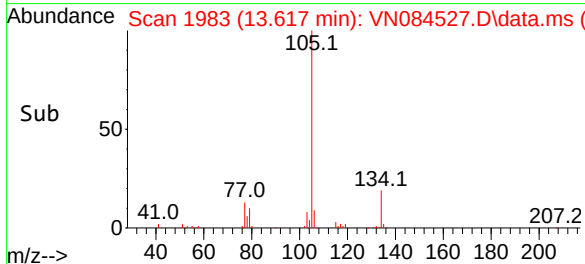
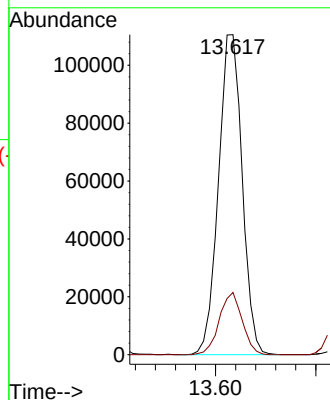
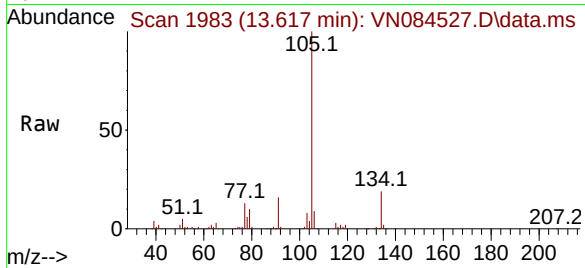
#81
sec-Butylbenzene
Concen: 19.652 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:105 Resp: 181249
Ion Ratio Lower Upper
105 100
134 18.8 0.0 38.0

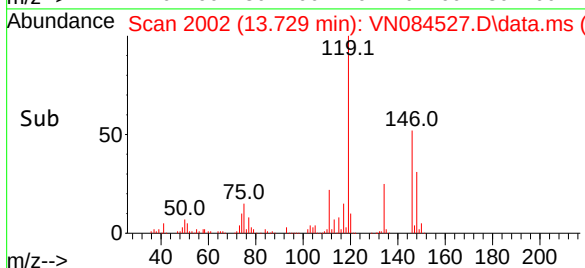
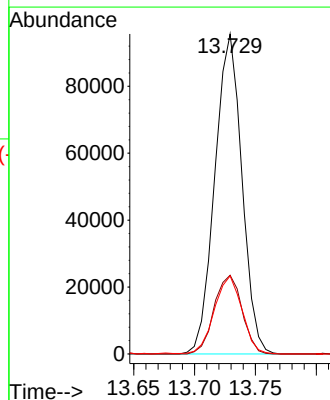
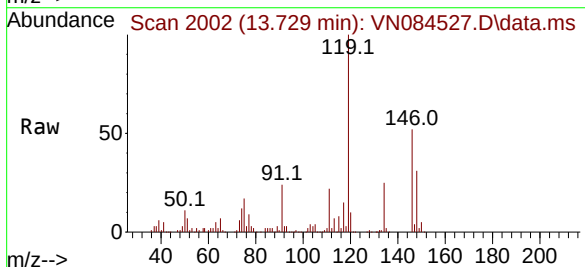
Manual Integrations
APPROVED

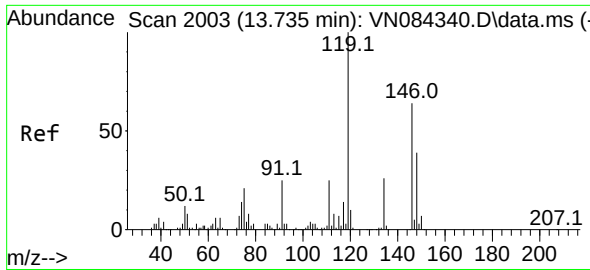
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#82
p-Isopropyltoluene
Concen: 19.057 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

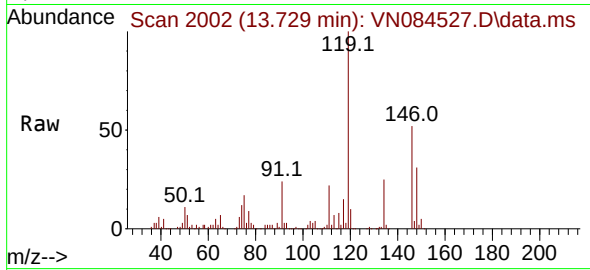
Tgt Ion:119 Resp: 147935
Ion Ratio Lower Upper
119 100
134 25.3 0.0 50.2
91 24.9 0.0 50.6





#83
1,3-Dichlorobenzene
Concen: 19.930 ug/l
RT: 13.729 min Scan# 2003
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

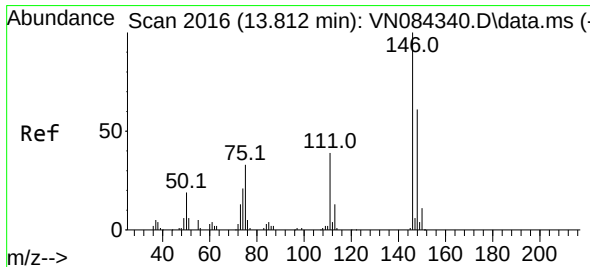
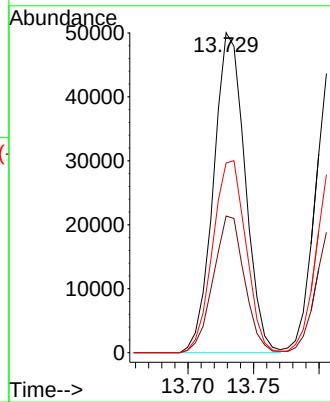
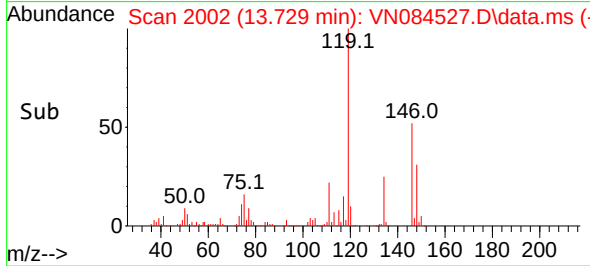
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:146 Resp: 83699
Ion Ratio Lower Upper
146 100
111 42.4 20.6 61.9
148 62.9 31.6 94.7

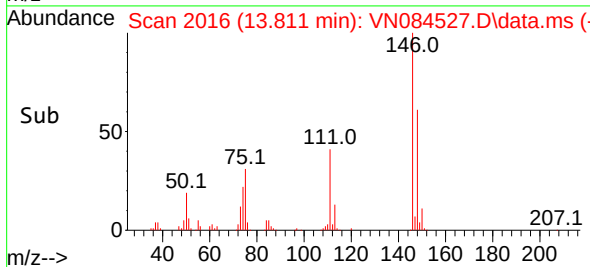
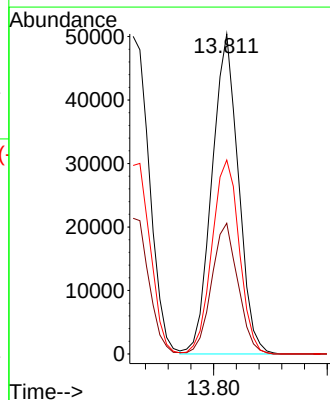
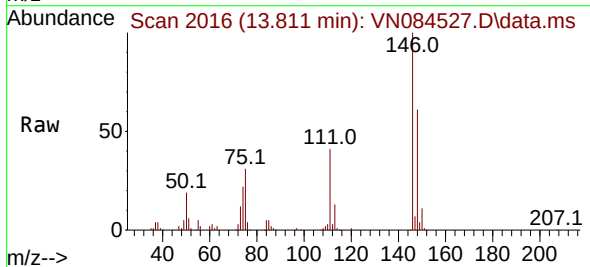
Manual Integrations
APPROVED

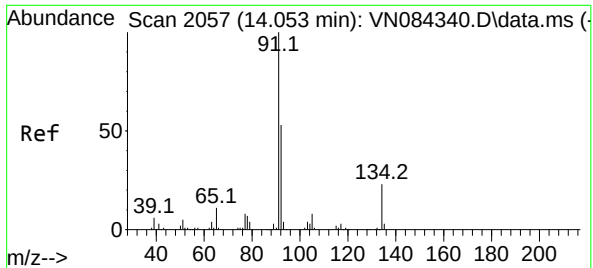
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#84
1,4-Dichlorobenzene
Concen: 19.554 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion:146 Resp: 81543
Ion Ratio Lower Upper
146 100
111 40.6 20.5 61.5
148 62.6 32.5 97.4





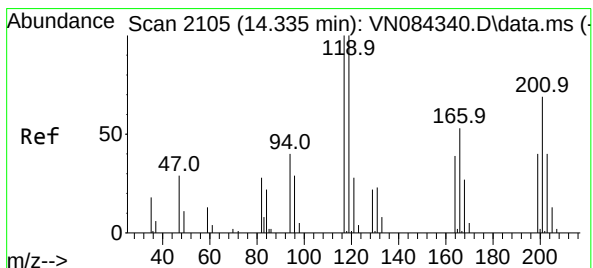
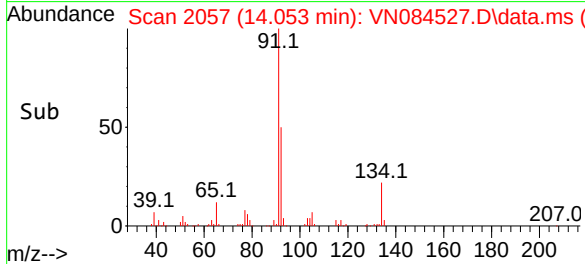
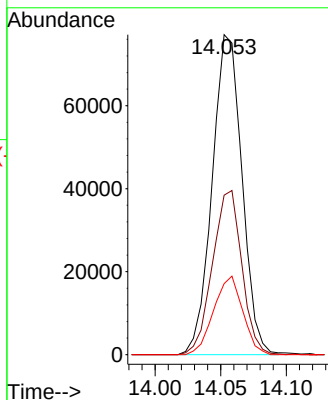
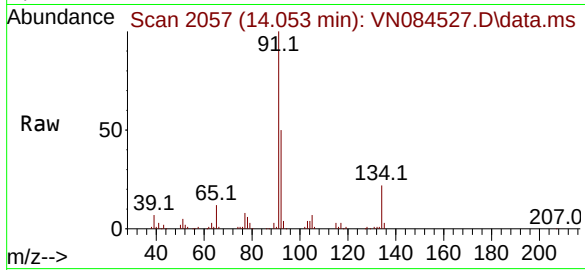
#85
n-Butylbenzene
Concen: 18.134 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 91 Resp: 121924
Ion Ratio Lower Upper
91 100
92 50.5 0.0 103.4
134 23.9 0.0 48.0

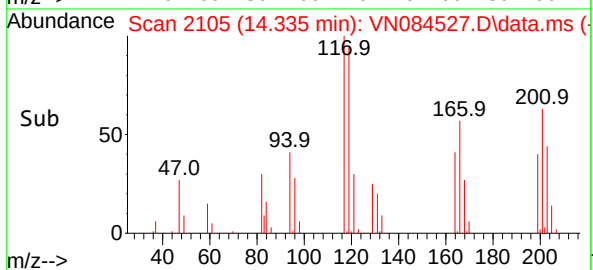
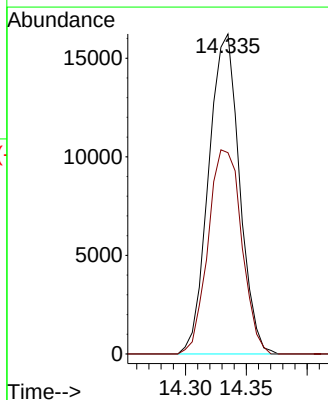
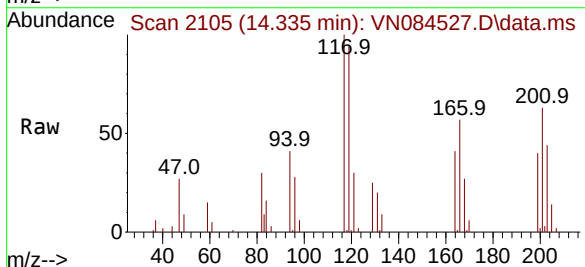
Manual Integrations
APPROVED

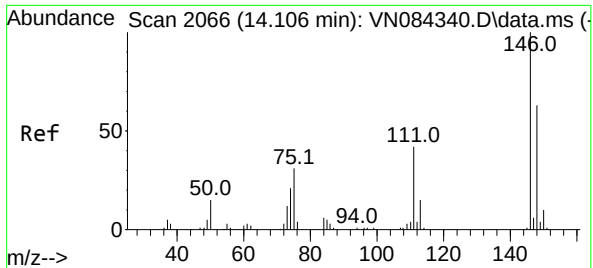
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#86
Hexachloroethane
Concen: 19.155 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion:117 Resp: 28649
Ion Ratio Lower Upper
117 100
201 69.3 33.9 101.6





#87

1,2-Dichlorobenzene

Concen: 19.394 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion:146 Resp: 78740

Ion Ratio Lower Upper

146 100

111 46.2 21.9 65.5

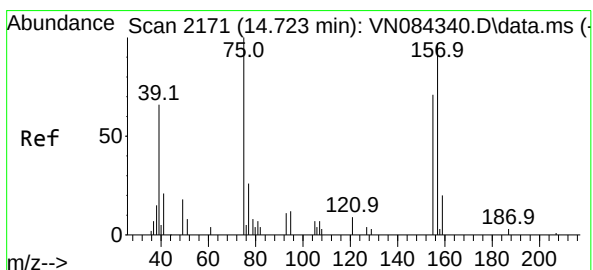
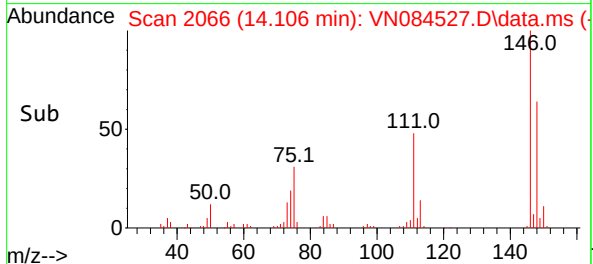
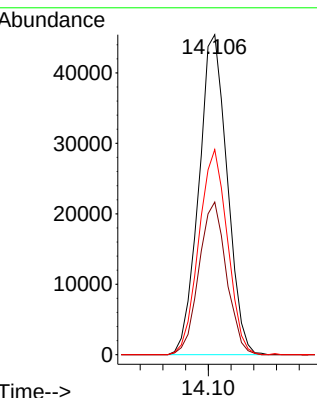
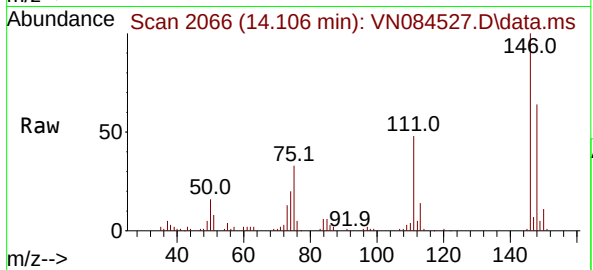
148 64.4 31.1 93.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 17.925 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

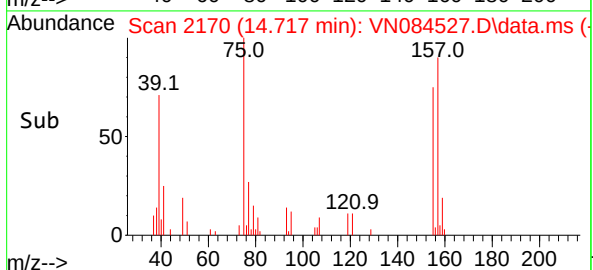
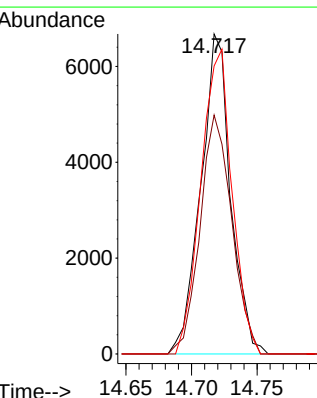
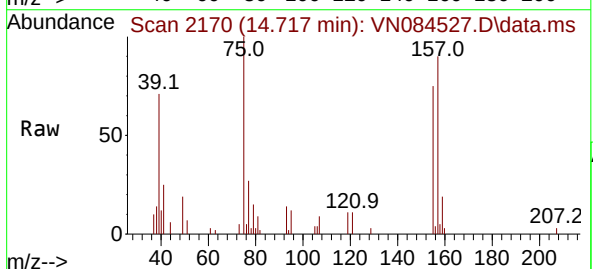
Tgt Ion: 75 Resp: 10575

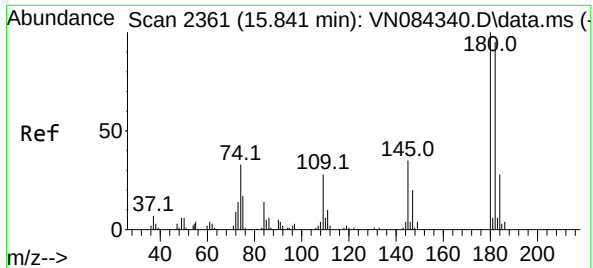
Ion Ratio Lower Upper

75 100

155 79.4 61.8 92.8

157 99.5 77.4 116.0





#89

1,2,4-Trichlorobenzene

Concen: 18.563 ug/l

RT: 15.835 min Scan# 2361

Delta R.T. -0.006 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

Instrument :

MSVOA_N

ClientSampleId :

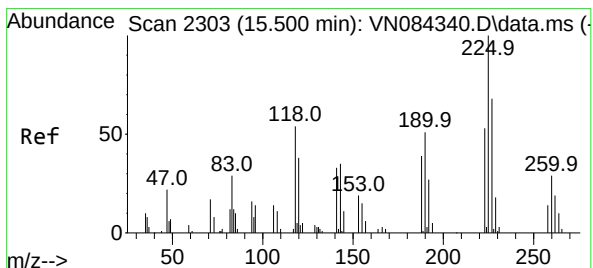
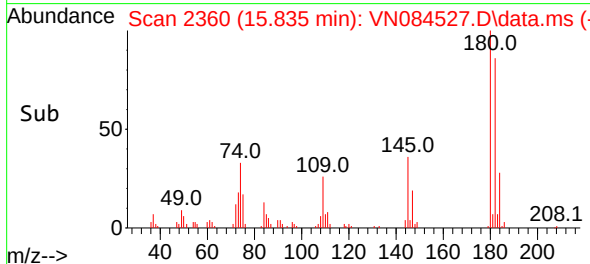
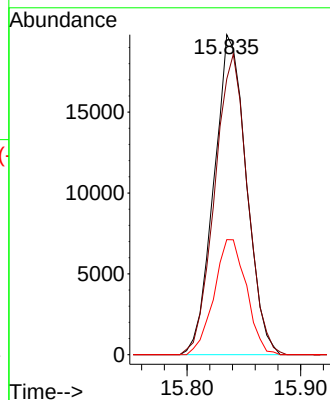
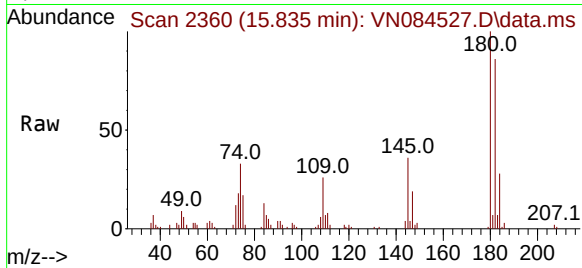
VSTDCCC020EC

Tgt Ion:180	Resp:	3918	
Ion Ratio	Lower	Upper	
180	100		
182	95.0	77.8	116.6
145	35.9	28.9	43.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#90

Hexachlorobutadiene

Concen: 17.775 ug/l

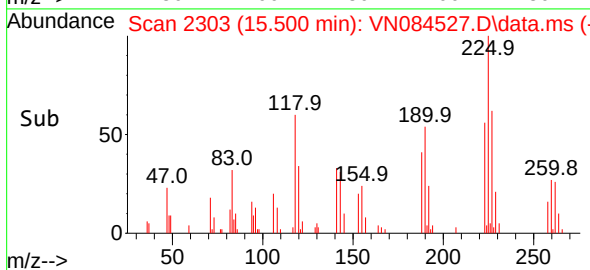
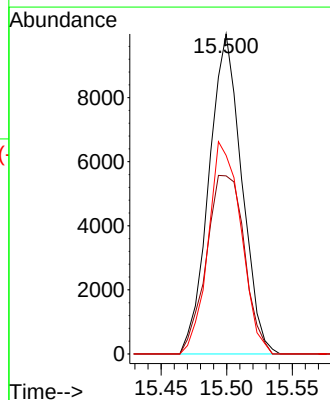
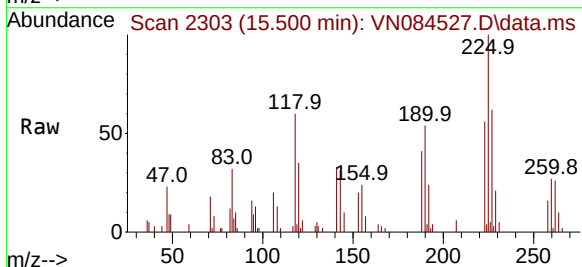
RT: 15.500 min Scan# 2303

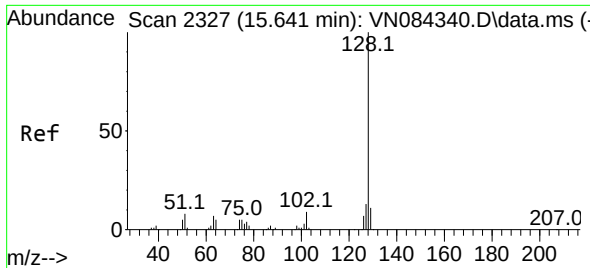
Delta R.T. -0.000 min

Lab File: VN084527.D

Acq: 25 Oct 2024 19:37

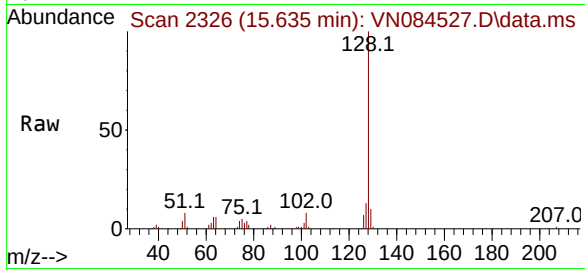
Tgt Ion:225	Resp:	17360	
Ion Ratio	Lower	Upper	
225	100		
223	64.7	0.0	124.0
227	66.3	0.0	130.8





#91
Naphthalene
Concen: 16.671 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

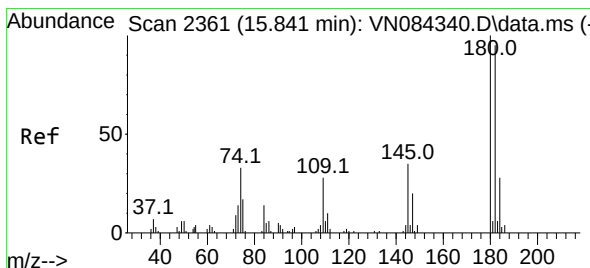
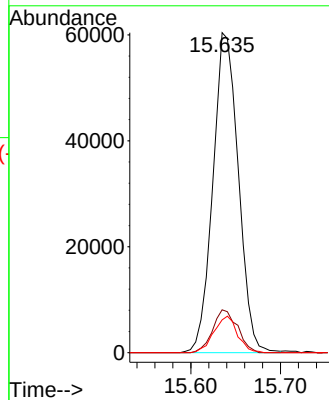
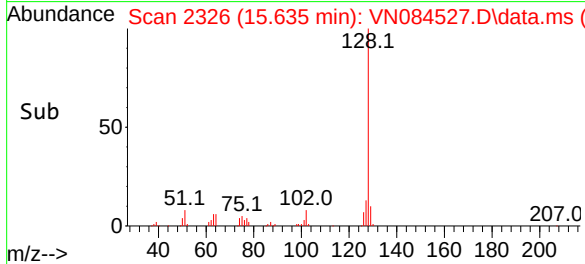
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:128 Resp: 11926
Ion Ratio Lower Upper
128 100
127 13.1 10.3 15.5
129 10.5 8.8 13.2

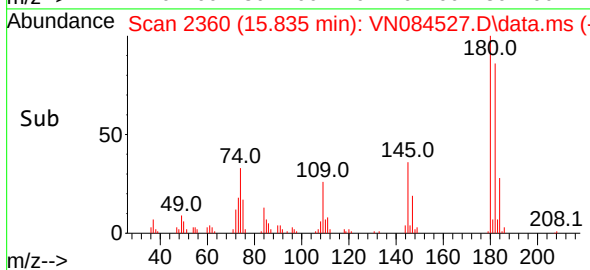
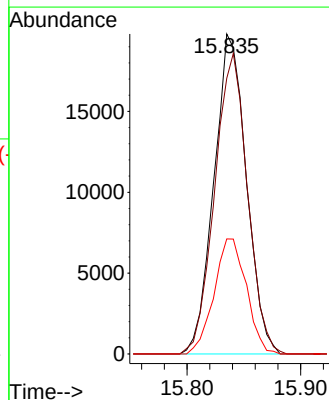
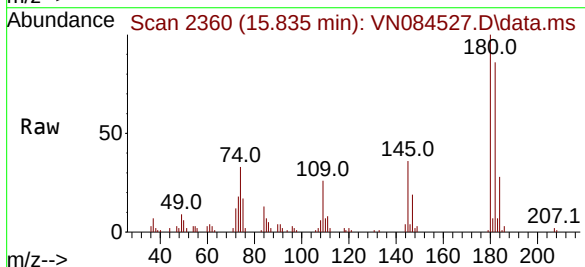
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#92
1,2,3-Trichlorobenzene
Concen: 18.563 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN084527.D
Acq: 25 Oct 2024 19:37

Tgt Ion:180 Resp: 39188
Ion Ratio Lower Upper
180 100
182 95.0 0.0 194.4
145 35.9 0.0 72.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084527.D
 Acq On : 25 Oct 2024 19:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Oct 26 05:32:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 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	91	0.00
2 M	Dichlorodifluoromethane	1.832	1.694	7.5	80	0.00
3 M	Chloromethane	2.084	1.957	6.1	83	0.00
4 M	Vinyl Chloride	2.044	1.938	5.2	84	0.00
5 M	Bromomethane	1.354	1.250	7.7	80	0.00
6 M	Chloroethane	1.340	1.229	8.3	80	0.00
7 M	Trichlorofluoromethane	3.329	3.208	3.6	86	0.00
8 T	Diethyl Ether	1.224	1.128	7.8	83	0.00
9	1,1,2-Trichlorotrifluoroeth	1.872	1.881	-0.5	90	0.01
10 M	1,1-Dichloroethene	1.868	1.752	6.2	87	0.00
11	Methyl Iodide	2.455	2.276	7.3	84	0.00
12	Methyl Acetate	2.339	2.432	-4.0	97	0.00
13 M	Acrolein	0.434	0.424	2.3	96	0.00
14 M	Acrylonitrile	1.051	0.946	10.0	80	0.00
15 M	Acetone	0.300	0.258	14.0	82	0.01
16 M	Carbon Disulfide	5.562	4.811	13.5	77	0.00
17	Allyl chloride	3.028	2.655	12.3	78	0.00
18 M	Methylene Chloride	2.104	2.094	0.5	89	0.00
19 M	trans-1,2-Dichloroethene	1.977	1.851	6.4	84	0.00
20 T	Diisopropyl ether	6.510	6.458	0.8	88	0.00
21 M	1,1-Dichloroethane	3.736	3.694	1.1	88	0.00
22 M	cis-1,2-Dichloroethene	2.300	2.230	3.0	86	0.00
23 M	tert-Butyl Alcohol	0.403	0.344	14.6	78	0.00
24 M	Methyl tert-Butyl Ether	6.242	5.925	5.1	85	0.00
25 M	Chloroform	3.783	3.831	-1.3	89	0.00
26	Cyclohexane	3.124	2.829	9.4	78	0.00
27 s	1,2-Dichloroethane-d4	2.415	2.425	-0.4	89	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
29	1,1-Dichloropropene	0.492	0.465	5.5	83	0.00
30 M	2-Butanone	0.262	0.236	9.9	81	0.00
31	2,2-Dichloropropane	0.579	0.448	22.6	69	0.00
32 M	1,1,1-Trichloroethane	0.629	0.624	0.8	85	0.00
33 M	Carbon Tetrachloride	0.545	0.538	1.3	87	0.00
34 M	Benzene	1.542	1.548	-0.4	88	0.00
35	Methacrylonitrile	0.280	0.248	11.4	80	0.00
36 M	1,2-Dichloroethane	0.514	0.521	-1.4	88	0.00
37 M	Trichloroethene	0.355	0.350	1.4	85	0.00
38	Methylcyclohexane	0.541	0.468	13.5	80	0.00
39 M	1,2-Dichloropropane	0.376	0.372	1.1	85	0.00
40	Dibromomethane	0.263	0.259	1.5	87	0.00
41 M	Bromodichloromethane	0.558	0.558	0.0	88	0.00
42 M	Vinyl Acetate	0.912	0.798	12.5	79	0.00
43	Ethyl Acetate	0.517	0.446	13.7	77	0.00
44	Isopropyl Acetate	0.846	0.815	3.7	86	0.00
45 T	1,4-Dioxane	0.008	0.007	12.5	87	0.00
46	Methyl methacrylate	0.409	0.376	8.1	82	0.00
47	n-amyl Acetate	0.753	0.689	8.5	82	0.00
48 M	t-1,3-Dichloropropene	0.576	0.526	8.7	83	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084527.D
 Acq On : 25 Oct 2024 19:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Oct 26 05:32:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 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	0.571	5.5	82	0.00
50 M	1,1,2-Trichloroethane	0.353	0.360	-2.0	90	0.00
51	Ethyl methacrylate	0.583	0.546	6.3	84	0.00
52	1,3-Dichloropropane	0.617	0.600	2.8	85	0.00
53 M	Dibromochloromethane	0.417	0.423	-1.4	90	0.00
54 M	1,2-Dibromoethane	0.364	0.350	3.8	84	0.00
55 M	2-Chloroethyl vinyl ether	0.265	0.256	3.4	90	0.00
56 M	Bromoform	0.277	0.264	4.7	88	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
58 M	4-Methyl-2-Pentanone	0.559	0.534	4.5	83	0.00
59 M	2-Hexanone	0.415	0.386	7.0	82	0.00
60 S	4-Bromofluorobenzene	0.495	0.489	1.2	87	0.00
61 M	Tetrachloroethene	0.339	0.351	-3.5	89	0.00
62 M	Toluene	1.756	1.770	-0.8	88	0.00
63 S	Toluene-d8	1.390	1.397	-0.5	87	0.00
64 M	Chlorobenzene	1.093	1.081	1.1	87	0.00
65	1,1,1,2-Tetrachloroethane	0.380	0.388	-2.1	88	0.00
66 M	Ethyl Benzene	1.908	1.839	3.6	85	0.00
67 M	m/p-Xylenes	0.724	0.719	0.7	86	0.00
68 M	o-Xylene	0.698	0.686	1.7	86	0.00
69 M	Styrene	1.198	1.171	2.3	86	0.00
70	Isopropylbenzene	1.781	1.714	3.8	84	0.00
71 M	1,1,2,2-Tetrachloroethane	0.551	0.548	0.5	87	0.00
72	1,2,3-Trichloropropane	0.472	0.515	-9.1	96	0.00
73	Bromobenzene	0.431	0.443	-2.8	90	0.00
74	n-propylbenzene	2.123	2.063	2.8	85	0.00
75	2-Chlorotoluene	1.319	1.315	0.3	87	0.00
76	1,3,5-Trimethylbenzene	1.500	1.512	-0.8	89	0.00
77	t-1,4-Dichloro-2-butene	0.202	0.163	19.3	76	0.00
78	4-Chlorotoluene	1.341	1.316	1.9	87	0.00
79	tert-butylbenzene	1.279	1.238	3.2	86	0.00
80	1,2,4-Trimethylbenzene	1.522	1.492	2.0	86	0.00
81	sec-Butylbenzene	1.762	1.731	1.8	86	0.00
82	p-Isopropyltoluene	1.483	1.413	4.7	85	0.00
83 M	1,3-Dichlorobenzene	0.802	0.799	0.4	88	0.00
84 M	1,4-Dichlorobenzene	0.796	0.779	2.1	89	0.00
85	n-Butylbenzene	1.284	1.164	9.3	85	0.00
86 T	Hexachloroethane	0.286	0.274	4.2	85	0.00
87 M	1,2-Dichlorobenzene	0.775	0.752	3.0	87	0.00
88	1,2-Dibromo-3-Chloropropane	0.113	0.101	10.6	80	0.00
89	1,2,4-Trichlorobenzene	0.403	0.374	7.2	85	0.00
90	Hexachlorobutadiene	0.187	0.166	11.2	83	0.00
91 M	Naphthalene	1.366	1.139	16.6	77	0.00
92	1,2,3-Trichlorobenzene	0.403	0.374	7.2	85	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084527.D
 Acq On : 25 Oct 2024 19:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Oct 26 05:32:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 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	91	0.00
2 M	Dichlorodifluoromethane	20.000	18.502	7.5	80	0.00
3 M	Chloromethane	20.000	18.781	6.1	83	0.00
4 M	Vinyl Chloride	20.000	18.959	5.2	84	0.00
5 M	Bromomethane	20.000	18.456	7.7	80	0.00
6 M	Chloroethane	20.000	18.345	8.3	80	0.00
7 M	Trichlorofluoromethane	20.000	19.267	3.7	86	0.00
8 T	Diethyl Ether	20.000	18.437	7.8	83	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.095	-0.5	90	0.01
10 M	1,1-Dichloroethene	20.000	18.759	6.2	87	0.00
11	Methyl Iodide	20.000	18.546	7.3	84	0.00
12	Methyl Acetate	20.000	20.804	-4.0	97	0.00
13 M	Acrolein	100.000	97.690	2.3	96	0.00
14 M	Acrylonitrile	100.000	90.074	9.9	80	0.00
15 M	Acetone	100.000	86.081	13.9	82	0.01
16 M	Carbon Disulfide	20.000	17.299	13.5	77	0.00
17	Allyl chloride	20.000	17.536	12.3	78	0.00
18 M	Methylene Chloride	20.000	19.904	0.5	89	0.00
19 M	trans-1,2-Dichloroethene	20.000	18.724	6.4	84	0.00
20 T	Diisopropyl ether	20.000	19.839	0.8	88	0.00
21 M	1,1-Dichloroethane	20.000	19.778	1.1	88	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.389	3.1	86	0.00
23 M	tert-Butyl Alcohol	100.000	85.280	14.7	78	0.00
24 M	Methyl tert-Butyl Ether	20.000	18.982	5.1	85	0.00
25 M	Chloroform	20.000	20.252	-1.3	89	0.00
26	Cyclohexane	20.000	18.107	9.5	78	0.00
27 s	1,2-Dichloroethane-d4	30.000	30.119	-0.4	89	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	88	0.00
29	1,1-Dichloropropene	20.000	18.887	5.6	83	0.00
30 M	2-Butanone	100.000	89.907	10.1	81	0.00
31	2,2-Dichloropropane	20.000	15.485	22.6	69	0.00
32 M	1,1,1-Trichloroethane	20.000	19.826	0.9	85	0.00
33 M	Carbon Tetrachloride	20.000	19.721	1.4	87	0.00
34 M	Benzene	20.000	20.078	-0.4	88	0.00
35	Methacrylonitrile	20.000	17.713	11.4	80	0.00
36 M	1,2-Dichloroethane	20.000	20.279	-1.4	88	0.00
37 M	Trichloroethene	20.000	19.729	1.4	85	0.00
38	Methylcyclohexane	20.000	17.289	13.6	80	0.00
39 M	1,2-Dichloropropane	20.000	19.777	1.1	85	0.00
40	Dibromomethane	20.000	19.691	1.5	87	0.00
41 M	Bromodichloromethane	20.000	19.998	0.0	88	0.00
42 M	Vinyl Acetate	100.000	87.500	12.5	79	0.00
43	Ethyl Acetate	20.000	17.263	13.7	77	0.00
44	Isopropyl Acetate	20.000	19.266	3.7	86	0.00
45 T	1,4-Dioxane	400.000	369.015	7.7	87	0.00
46	Methyl methacrylate	20.000	18.395	8.0	82	0.00
47	n-amyl Acetate	20.000	18.307	8.5	82	0.00
48 M	t-1,3-Dichloropropene	20.000	18.236	8.8	83	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084527.D
 Acq On : 25 Oct 2024 19:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Oct 26 05:32:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 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	18.913	5.4	82	0.00
50 M	1,1,2-Trichloroethane	20.000	20.399	-2.0	90	0.00
51	Ethyl methacrylate	20.000	18.717	6.4	84	0.00
52	1,3-Dichloropropane	20.000	19.446	2.8	85	0.00
53 M	Dibromochloromethane	20.000	20.274	-1.4	90	0.00
54 M	1,2-Dibromoethane	20.000	19.261	3.7	84	0.00
55 M	2-Chloroethyl vinyl ether	100.000	96.799	3.2	90	0.00
56 M	Bromoform	20.000	19.086	4.6	88	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	87	0.00
58 M	4-Methyl-2-Pentanone	100.000	95.601	4.4	83	0.00
59 M	2-Hexanone	100.000	92.927	7.1	82	0.00
60 S	4-Bromofluorobenzene	30.000	29.657	1.1	87	0.00
61 M	Tetrachloroethene	20.000	20.663	-3.3	89	0.00
62 M	Toluene	20.000	20.155	-0.8	88	0.00
63 S	Toluene-d8	30.000	30.159	-0.5	87	0.00
64 M	Chlorobenzene	20.000	19.775	1.1	87	0.00
65	1,1,1,2-Tetrachloroethane	20.000	20.444	-2.2	88	0.00
66 M	Ethyl Benzene	20.000	19.272	3.6	85	0.00
67 M	m/p-Xylenes	40.000	39.725	0.7	86	0.00
68 M	o-Xylene	20.000	19.660	1.7	86	0.00
69 M	Styrene	20.000	19.558	2.2	86	0.00
70	Isopropylbenzene	20.000	19.247	3.8	84	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	19.873	0.6	87	0.00
72	1,2,3-Trichloropropane	20.000	21.807	-9.0	96	0.00
73	Bromobenzene	20.000	20.557	-2.8	90	0.00
74	n-propylbenzene	20.000	19.439	2.8	85	0.00
75	2-Chlorotoluene	20.000	19.943	0.3	87	0.00
76	1,3,5-Trimethylbenzene	20.000	20.164	-0.8	89	0.00
77	t-1,4-Dichloro-2-butene	20.000	16.149	19.3	76	0.00
78	4-Chlorotoluene	20.000	19.623	1.9	87	0.00
79	tert-butylbenzene	20.000	19.353	3.2	86	0.00
80	1,2,4-Trimethylbenzene	20.000	19.607	2.0	86	0.00
81	sec-Butylbenzene	20.000	19.652	1.7	86	0.00
82	p-Isopropyltoluene	20.000	19.057	4.7	85	0.00
83 M	1,3-Dichlorobenzene	20.000	19.930	0.4	88	0.00
84 M	1,4-Dichlorobenzene	20.000	19.554	2.2	89	0.00
85	n-Butylbenzene	20.000	18.134	9.3	85	0.00
86 T	Hexachloroethane	20.000	19.155	4.2	85	0.00
87 M	1,2-Dichlorobenzene	20.000	19.394	3.0	87	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	17.925	10.4	80	0.00
89	1,2,4-Trichlorobenzene	20.000	18.563	7.2	85	0.00
90	Hexachlorobutadiene	20.000	17.775	11.1	83	0.00
91 M	Naphthalene	20.000	16.671	16.6	77	0.00
92	1,2,3-Trichlorobenzene	20.000	18.563	7.2	85	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



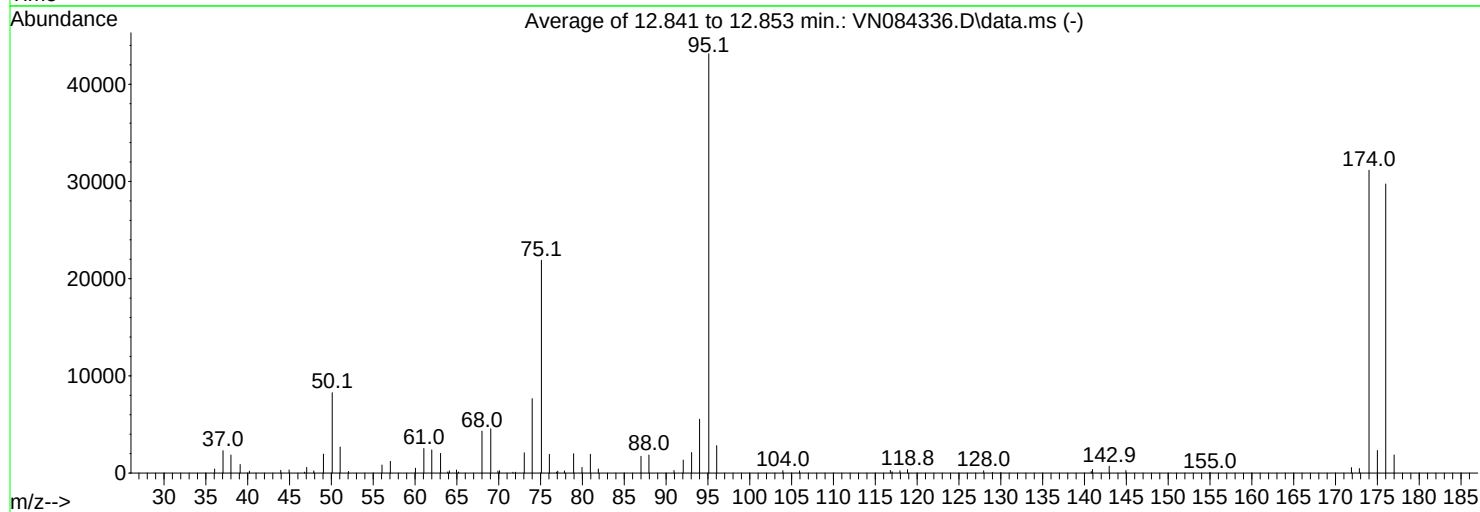
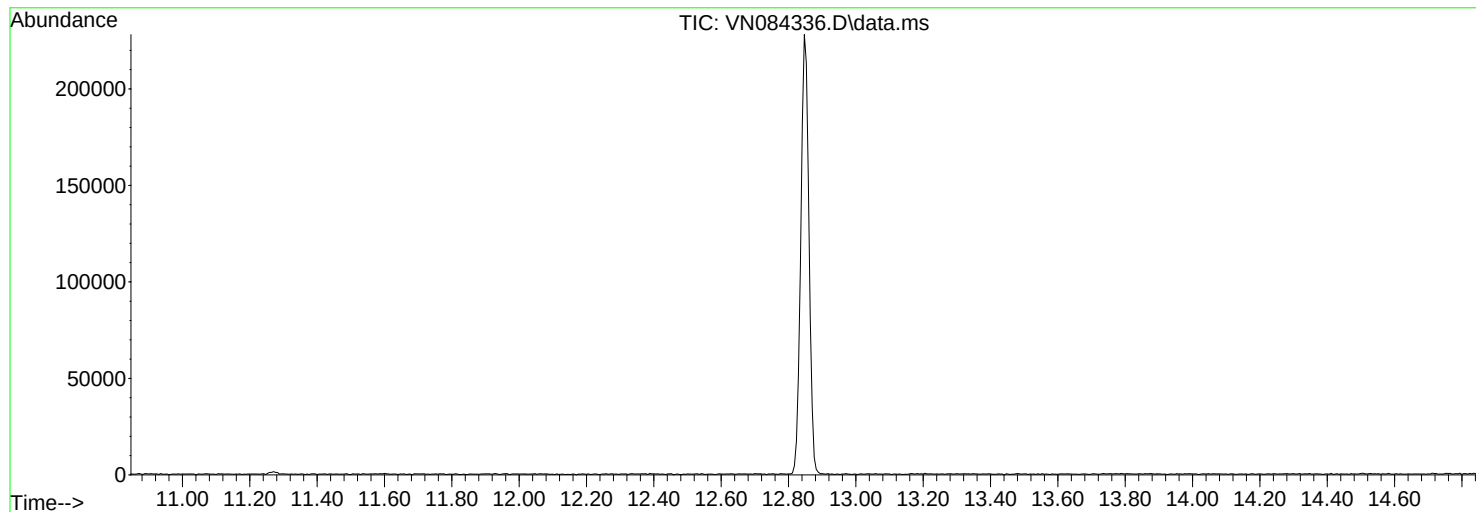
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
Data File : VN084336.D
Acq On : 08 Oct 2024 09:08
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\624N100824W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Wed Oct 09 02:22:28 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

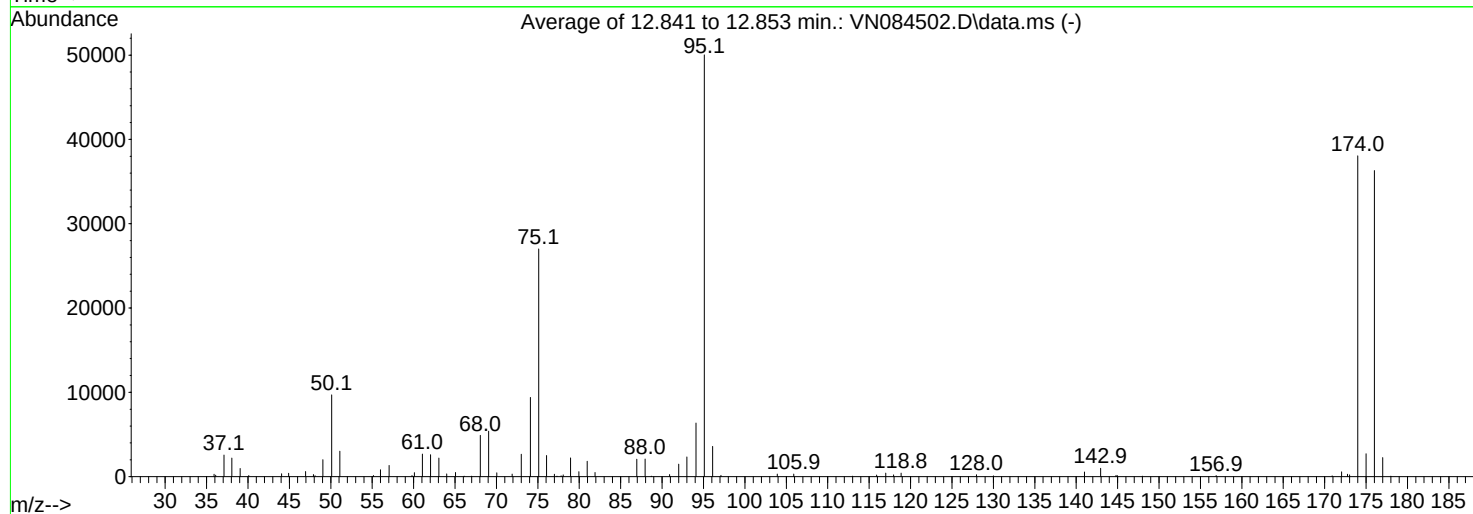
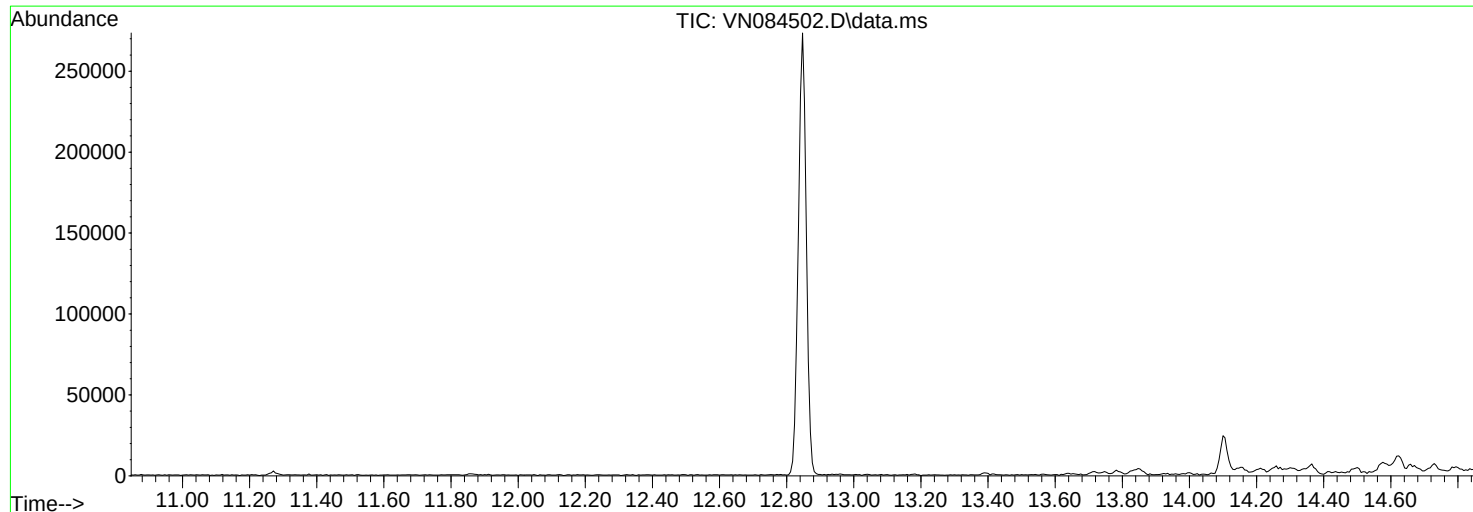
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	8273	PASS
75	95	30	60	50.8	21899	PASS
95	95	100	100	100.0	43144	PASS
96	95	5	9	6.5	2825	PASS
173	174	0.00	2	1.5	464	PASS
174	95	50	100	72.2	31163	PASS
175	174	5	9	7.5	2328	PASS
176	174	95	101	95.4	29744	PASS
177	176	5	9	6.3	1873	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084502.D
Acq On : 25 Oct 2024 08:21
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	9707	PASS
75	95	30	60	54.0	27013	PASS
95	95	100	100	100.0	50032	PASS
96	95	5	9	7.2	3591	PASS
173	174	0.00	2	0.7	282	PASS
174	95	50	100	76.0	38048	PASS
175	174	5	9	7.1	2716	PASS
176	174	95	101	95.4	36315	PASS
177	176	5	9	6.2	2254	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	294	49.05	2007	64.00	332	76.05	250
36.10	164	50.10	9707	65.05	491	77.00	28
37.10	2565	51.10	3013	66.10	56	77.30	6
38.05	2205	55.15	142	67.00	56	77.80	9
39.05	964	56.00	826	68.05	4890	78.05	207
40.10	143	57.05	1321	69.05	5382	78.95	2215
44.05	345	59.80	128	70.05	462	79.95	596
44.90	395	60.10	473	71.90	311	80.95	1825
46.95	600	61.05	2683	73.00	2658	81.90	489
47.90	241	62.05	2607	74.10	9393	86.95	2073
48.10	110	63.05	2197	75.10	27013	87.95	2085

Average of 12.841 to 12.853 min.: VN084502.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.70	61	115.90	187	156.90	134		
90.90	252	117.00	415	170.90	93		
92.00	1476	117.95	206	172.05	569		
93.00	2335	118.85	420	172.75	282		
94.10	6368	127.95	234	173.00	213		
95.10	50032	130.00	105	174.00	38048		
96.10	3591	141.00	543	175.00	2716		
97.10	161	142.95	993	176.00	36315		
103.90	297	144.80	144	177.00	2254		
105.90	305	144.95	136	178.00	52		
113.00	57	148.00	58				

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN1025WBL01	SDG No.:	P4549
Lab Sample ID:	VN1025WBL01	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
VN084507.D	1		10/25/24 11:27	VN102524

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:	VN1025WBL01	SDG No.:	P4549
Lab Sample ID:	VN1025WBL01	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
VN084507.D	1		10/25/24 11:27	VN102524

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:	VN1025WBL01			SDG No.:	P4549
Lab Sample ID:	VN1025WBL01			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
VN084507.D	1		10/25/24 11:27	VN102524

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	30.1		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	26.2		63 - 112	87%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32300	7.812			
540-36-3	1,4-Difluorobenzene	175000	9.1			
3114-55-4	Chlorobenzene-d5	150000	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\VN102524\
Data File : VN084507.D
Acq On : 25 Oct 2024 11:27
Operator : JC\MD
Sample : VN1025WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL01

Quant Time: Oct 26 05:28:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32302	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	175246	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	150285	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77974	29.983	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.933%
60) 4-Bromofluorobenzene	12.847	95	65032	26.219	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.400%
63) Toluene-d8	10.565	98	209499	30.091	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.300%

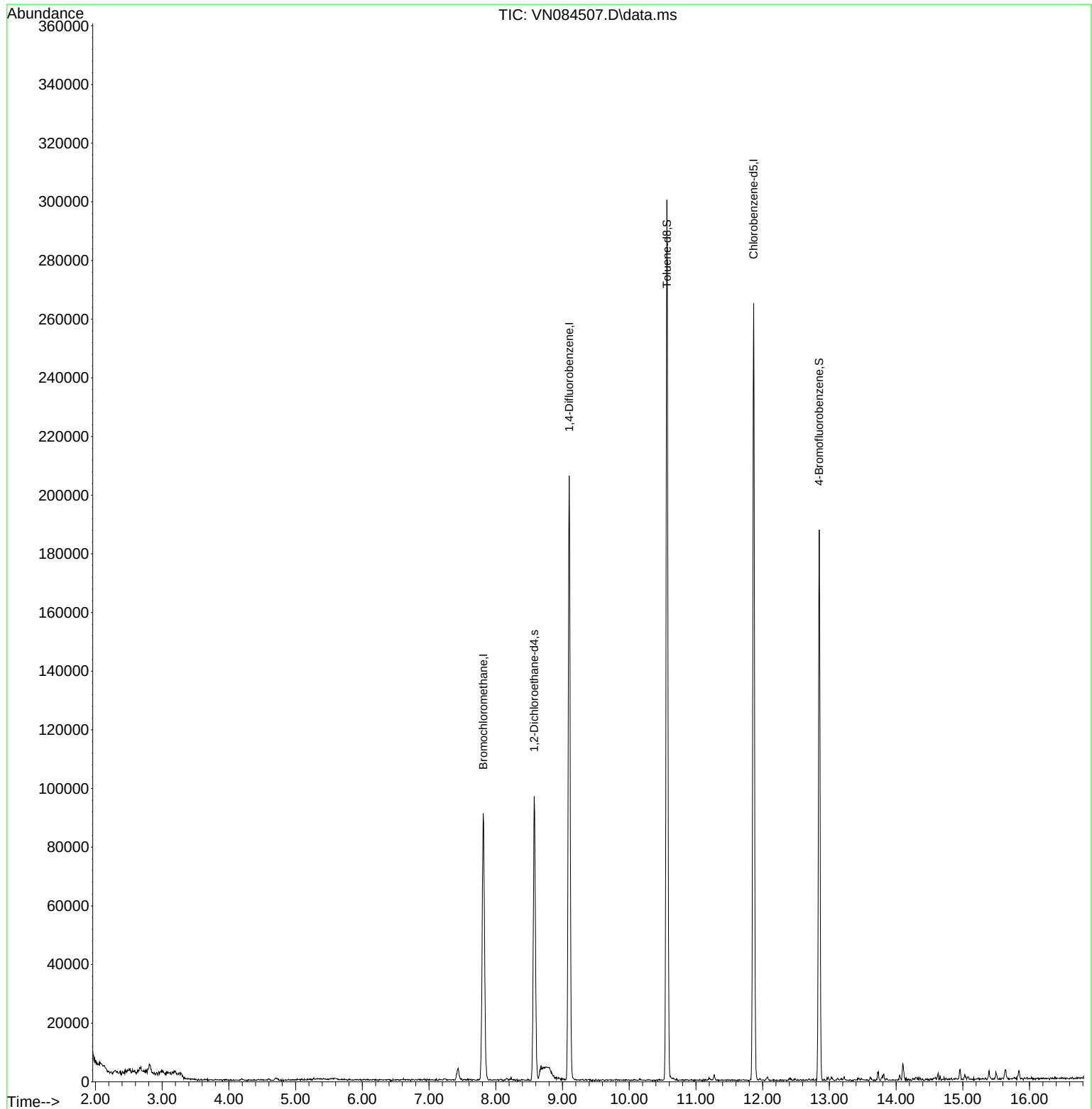
Target Compounds	Qvalue

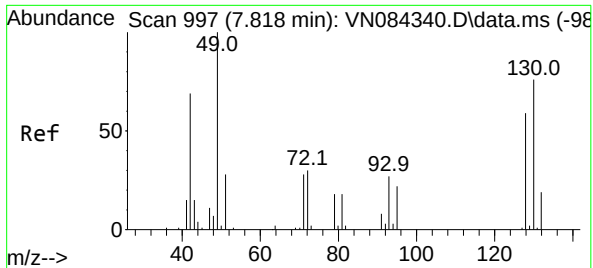
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084507.D
Acq On : 25 Oct 2024 11:27
Operator : JC\MD
Sample : VN1025WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL01

Quant Time: Oct 26 05:28:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration

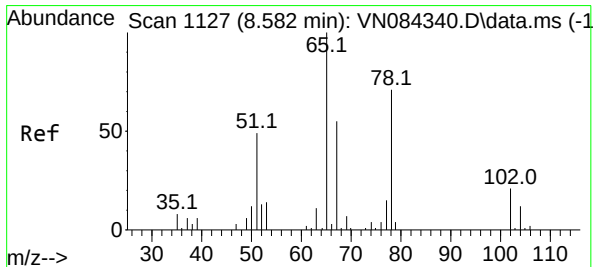
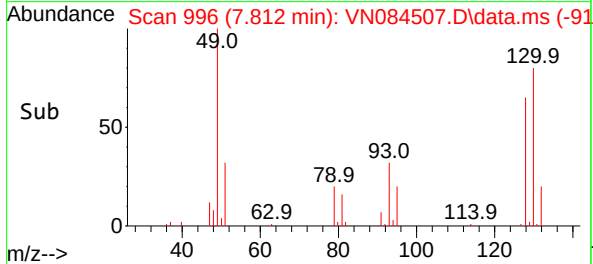
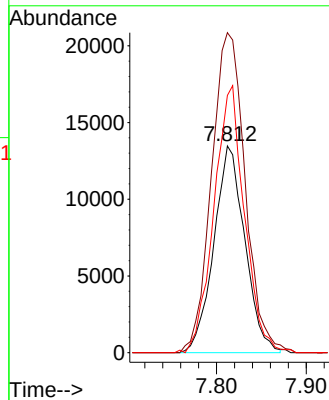
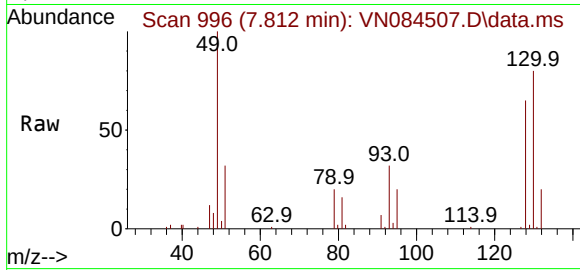




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN084507.D
Acq: 25 Oct 2024 11:27

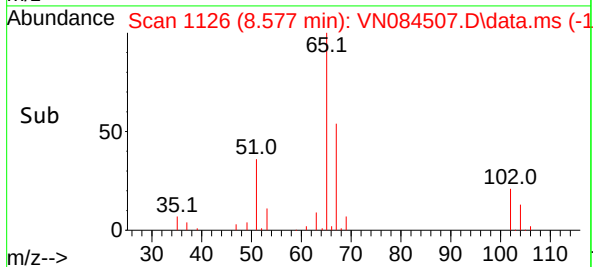
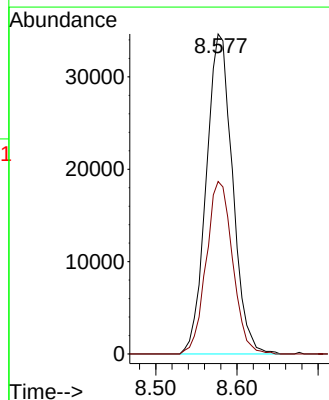
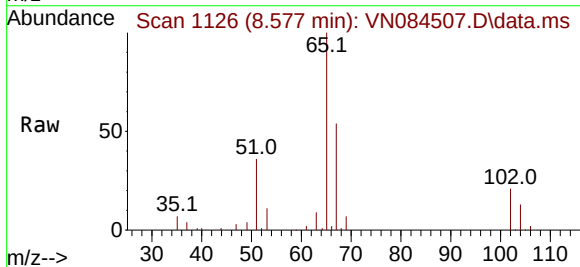
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL01

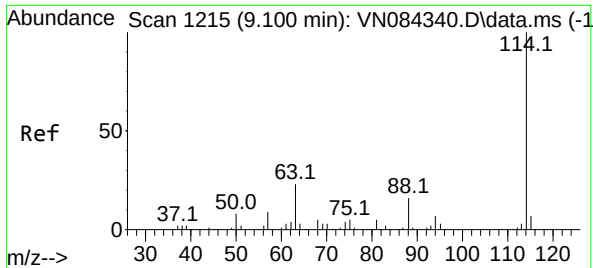
Tgt Ion	Ratio	Lower	Upper
128	100		
49	168.1	0.0	430.0
130	127.3	0.0	329.8



#27
1,2-Dichloroethane-d4
Concen: 29.983 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084507.D
Acq: 25 Oct 2024 11:27

Tgt Ion	Ratio	Lower	Upper
65	100		
67	54.1	41.5	62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084507.D

Acq: 25 Oct 2024 11:27

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBL01

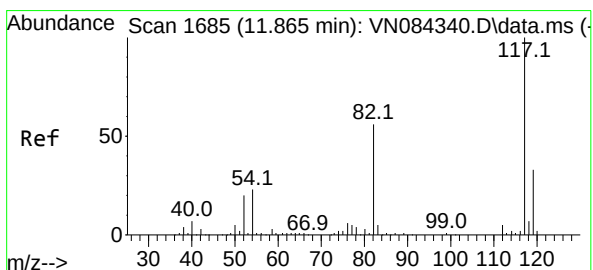
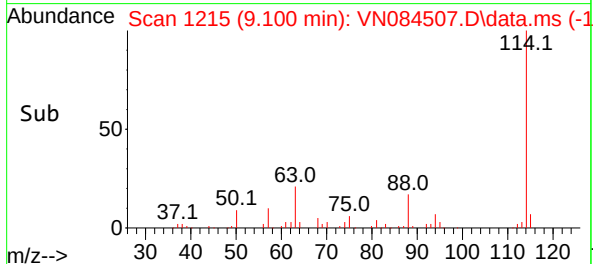
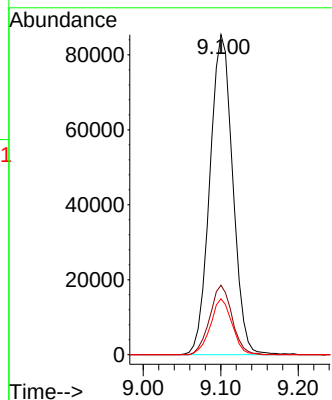
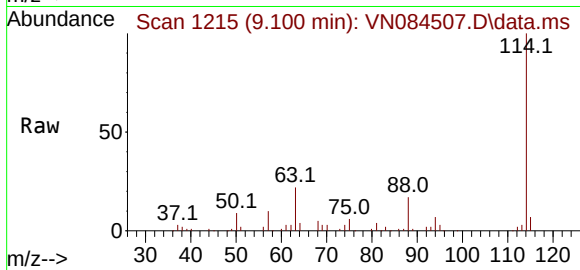
Tgt Ion:114 Resp: 175246

Ion Ratio Lower Upper

114 100

63 21.1 17.4 26.0

88 16.4 13.2 19.8



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084507.D

Acq: 25 Oct 2024 11:27

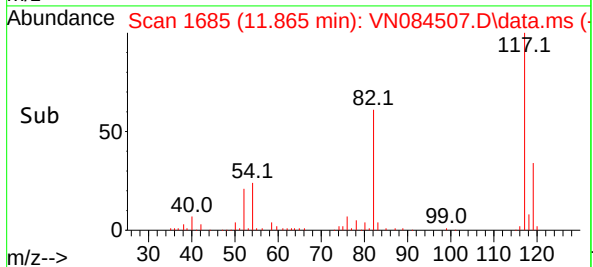
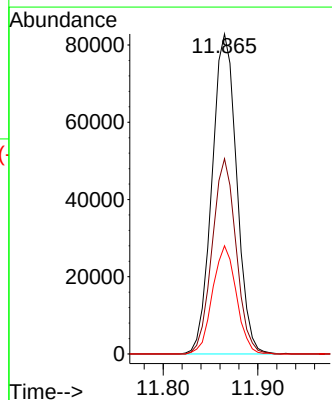
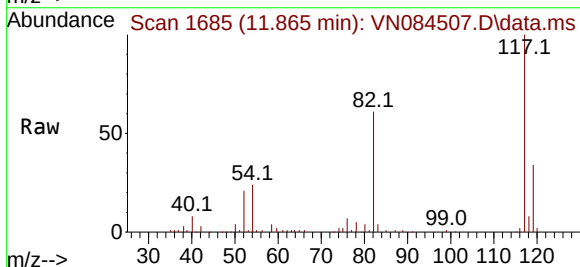
Tgt Ion:117 Resp: 150285

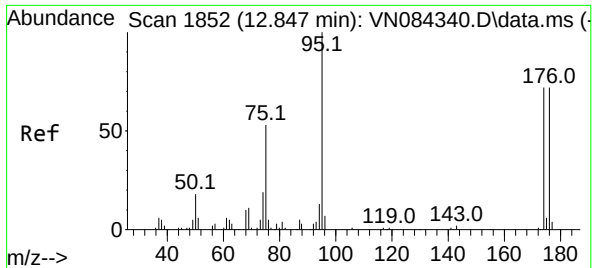
Ion Ratio Lower Upper

117 100

82 59.1 46.2 69.4

119 32.6 25.4 38.2

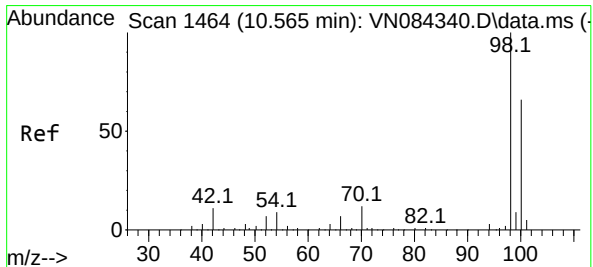
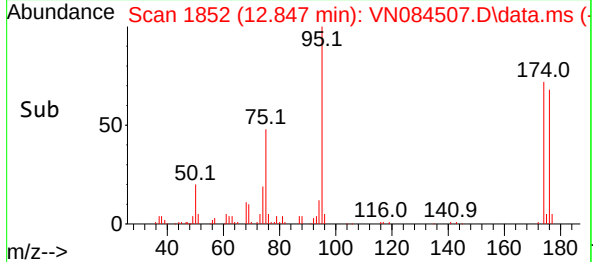
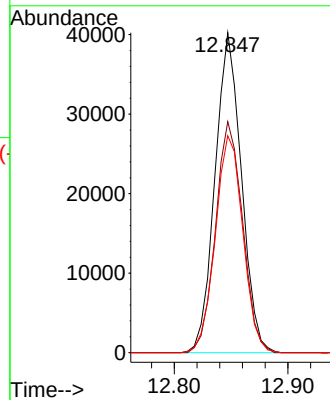
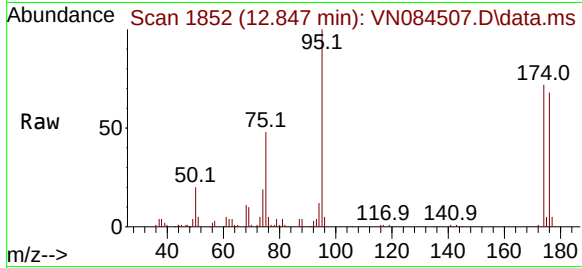




#60
4-Bromofluorobenzene
Concen: 26.219 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084507.D
Acq: 25 Oct 2024 11:27

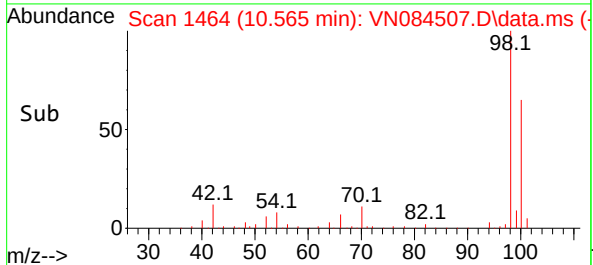
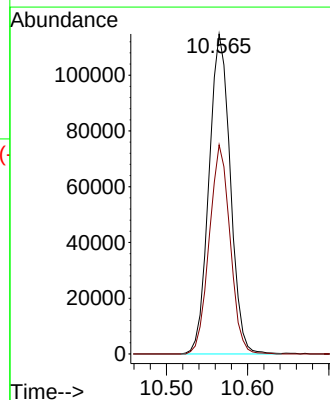
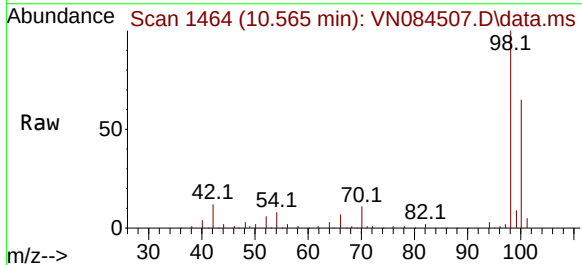
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL01

Tgt Ion: 95 Resp: 65032
Ion Ratio Lower Upper
95 100
174 73.9 58.2 87.2
176 70.7 56.4 84.6



#63
Toluene-d8
Concen: 30.091 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084507.D
Acq: 25 Oct 2024 11:27

Tgt Ion: 98 Resp: 209499
Ion Ratio Lower Upper
98 100
100 63.7 52.5 78.7



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN1025WBS01	SDG No.:	P4549
Lab Sample ID:	VN1025WBS01	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
VN084505.D	1		10/25/24 10:40	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.5		1.20	5.00	ug/L
74-87-3	Chloromethane	17.5		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	18.2		1.20	5.00	ug/L
74-83-9	Bromomethane	17.5		1.40	5.00	ug/L
75-00-3	Chloroethane	18.5		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.7		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	18.5		1.10	5.00	ug/L
107-02-8	Acrolein	99.2		9.30	25.0	ug/L
107-13-1	Acrylonitrile	89.2		3.70	25.0	ug/L
67-64-1	Acetone	110		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	16.5		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	18.8		0.83	5.00	ug/L
79-20-9	Methyl Acetate	21.2		1.20	5.00	ug/L
75-09-2	Methylene Chloride	19.0		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.8		0.81	5.00	ug/L
110-82-7	Cyclohexane	17.5		1.00	5.00	ug/L
78-93-3	2-Butanone	95.6		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	19.4		1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.90	5.00	ug/L
67-66-3	Chloroform	19.4		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.1		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	17.4		0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	17.8		0.75	5.00	ug/L
71-43-2	Benzene	18.2		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.75	5.00	ug/L
79-01-6	Trichloroethene	18.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	18.4		0.65	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN1025WBS01		SDG No.:	P4549
Lab Sample ID:	VN1025WBS01		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
VN084505.D	1		10/25/24 10:40	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	18.4		0.70	5.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.6		4.20	25.0	ug/L
108-88-3	Toluene	18.8		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.8		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.1		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.7		0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	18.7		0.68	5.00	ug/L
591-78-6	2-Hexanone	94.4		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	18.9		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	18.0		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.94	5.00	ug/L
108-90-7	Chlorobenzene	18.5		0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.3		0.91	5.00	ug/L
67-72-1	Hexachloroethane	18.3		0.91	5.00	ug/L
100-41-4	Ethyl Benzene	18.6		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	37.6		1.70	10.0	ug/L
95-47-6	o-Xylene	18.4		0.82	5.00	ug/L
100-42-5	Styrene	18.8		0.80	5.00	ug/L
75-25-2	Bromoform	17.9		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	19.0		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.9		0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.0		1.70	5.00	ug/L
108-86-1	Bromobenzene	19.1		0.69	5.00	ug/L
103-65-1	n-propylbenzene	19.0		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	19.1		0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	18.8		0.82	5.00	ug/L
98-06-6	tert-butylbenzene	19.2		0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.0		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:	VN1025WBS01			SDG No.:	P4549
Lab Sample ID:	VN1025WBS01			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
VN084505.D	1		10/25/24 10:40	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	18.6		0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.9		0.95	5.00	ug/L
104-51-8	n-Butylbenzene	18.4		0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.9		1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	18.5		1.10	5.00	ug/L
91-20-3	Naphthalene	16.8		1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.9		1.40	5.00	ug/L
74-88-4	Methyl Iodide	17.8		0.94	5.00	ug/L
80-62-6	Methyl methacrylate	17.2		1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.9		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.6		63 - 112	102%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	35000	7.812			
540-36-3	1,4-Difluorobenzene	196000	9.1			
3114-55-4	Chlorobenzene-d5	178000	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\VN102524\
 Data File : VN084505.D
 Acq On : 25 Oct 2024 10:40
 Operator : JC\MD
 Sample : VN1025WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 26 05:25:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	35006	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	196424	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	178483	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	85431	30.313	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.033%			
60) 4-Bromofluorobenzene	12.847	95	90213	30.625	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.100%			
63) Toluene-d8	10.565	98	247087	29.883	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	37425	17.511	ug/l	96
3) Chloromethane	2.359	50	42455	17.456	ug/l	98
4) Vinyl Chloride	2.512	62	43498	18.237	ug/l	99
5) Bromomethane	2.965	94	27594	17.462	ug/l	95
6) Chloroethane	3.124	64	28969	18.527	ug/l	89
7) Trichlorofluoromethane	3.501	101	72738	18.723	ug/l	97
8) Diethyl Ether	3.965	74	26272	18.393	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	43494	19.911	ug/l	95
10) 1,1-Dichloroethene	4.342	96	40269	18.475	ug/l	93
11) Methyl Iodide	4.583	142	51000	17.805	ug/l	99
12) Methyl Acetate	5.024	43	57902	21.219	ug/l	95
13) Acrolein	4.177	56	50260	99.152	ug/l	98
14) Acrylonitrile	5.724	53	109397	89.236	ug/l	96
15) Acetone	4.424	58	39266	112.125	ug/l	88
16) Carbon Disulfide	4.706	76	107167	16.511	ug/l	98
17) Allyl chloride	5.018	41	62267	17.623	ug/l	93
18) Methylene Chloride	5.271	84	46706	19.022	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	41066	17.802	ug/l	94
20) Diisopropyl ether	6.671	45	146499	19.284	ug/l	96
21) 1,1-Dichloroethane	6.571	63	82163	18.849	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	49779	18.544	ug/l	98
23) tert-Butyl Alcohol	5.518	59	40923	87.026	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	136638	18.758	ug/l #	84
25) Chloroform	7.965	83	85704	19.413	ug/l	99
26) Cyclohexane	8.259	56	63628	17.453	ug/l #	94
29) 1,1-Dichloropropene	8.371	75	57539	17.845	ug/l	98
30) 2-Butanone	7.483	43	164064	95.566	ug/l	99
31) 2,2-Dichloropropane	7.489	77	73609	19.426	ug/l #	81
32) 1,1,1-Trichloroethane	8.171	97	74667	18.116	ug/l	96
33) Carbon Tetrachloride	8.359	117	66737	18.691	ug/l	98
34) Benzene	8.606	78	183430	18.173	ug/l #	94
35) Methacrylonitrile	7.777	41	33276	18.169	ug/l	98
36) 1,2-Dichloroethane	8.665	62	63174	18.777	ug/l	99
37) Trichloroethene	9.353	130	43004	18.502	ug/l	91
38) Methylcyclohexane	9.600	83	61561	17.381	ug/l	99
39) 1,2-Dichloropropane	9.618	63	45243	18.381	ug/l	95
40) Dibromomethane	9.706	93	31615	18.378	ug/l	98
41) Bromodichloromethane	9.883	83	69934	19.150	ug/l #	95
42) Vinyl Acetate	6.600	43	524167	87.789	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084505.D
 Acq On : 25 Oct 2024 10:40
 Operator : JC\MD
 Sample : VN1025WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/28/2024
 Supervised By : Mahesh Dadoda 10/28/2024

Quant Time: Oct 26 05:25:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	53166	15.702	ug/l #	92
44) Isopropyl Acetate	8.688	43	121028	21.839	ug/l	90
45) 1,4-Dioxane	9.694	88	17805	356.411	ug/l	96
46) Methyl methacrylate	9.677	41	46112	17.222	ug/l	95
47) n-amyl Acetate	12.494	43	86813	17.612	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	67004	17.755	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	71632	18.112	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	43132	18.654	ug/l	96
51) Ethyl methacrylate	10.871	69	67198	17.595	ug/l	98
52) 1,3-Dichloropropane	11.159	76	75556	18.688	ug/l	98
53) Dibromochloromethane	11.359	129	51619	18.898	ug/l	99
54) 1,2-Dibromoethane	11.465	107	42803	17.984	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	153339	88.521	ug/l	99
56) Bromoform	12.576	173	32397	17.883	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	307964	92.625	ug/l	99
59) 2-Hexanone	11.194	43	233137	94.363	ug/l	100
61) Tetrachloroethene	11.100	164	38956	19.296	ug/l	96
62) Toluene	10.630	91	196630	18.818	ug/l	99
64) Chlorobenzene	11.888	112	120580	18.545	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	43584	19.294	ug/l	97
66) Ethyl Benzene	11.965	91	210798	18.569	ug/l	96
67) m/p-Xylenes	12.071	106	162032	37.626	ug/l	99
68) o-Xylene	12.400	106	76484	18.426	ug/l	98
69) Styrene	12.412	104	133735	18.768	ug/l	98
70) Isopropylbenzene	12.694	105	200837	18.952	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	61873	18.874	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	50617m	18.029	ug/l	
73) Bromobenzene	12.976	156	48953	19.075	ug/l	98
74) n-propylbenzene	13.035	91	239983	19.004	ug/l	100
75) 2-Chlorotoluene	13.123	91	149369	19.035	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	170711	19.133	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	21547	17.960	ug/l	98
78) 4-Chlorotoluene	13.218	91	150297	18.839	ug/l	99
79) tert-butylbenzene	13.435	119	145820	19.156	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	171754	18.972	ug/l	98
81) sec-Butylbenzene	13.612	105	198811	18.971	ug/l	98
82) p-Isopropyltoluene	13.729	119	164354	18.632	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	90986	19.067	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	89542	18.896	ug/l	99
85) n-Butylbenzene	14.053	91	140914	18.444	ug/l	100
86) Hexachloroethane	14.329	117	31139	18.323	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	87916	19.055	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12838	19.150	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	42844	17.861	ug/l	98
90) Hexachlorobutadiene	15.494	225	20560	18.527	ug/l	98
91) Naphthalene	15.641	128	136862	16.837	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	42844	17.861	ug/l	98

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

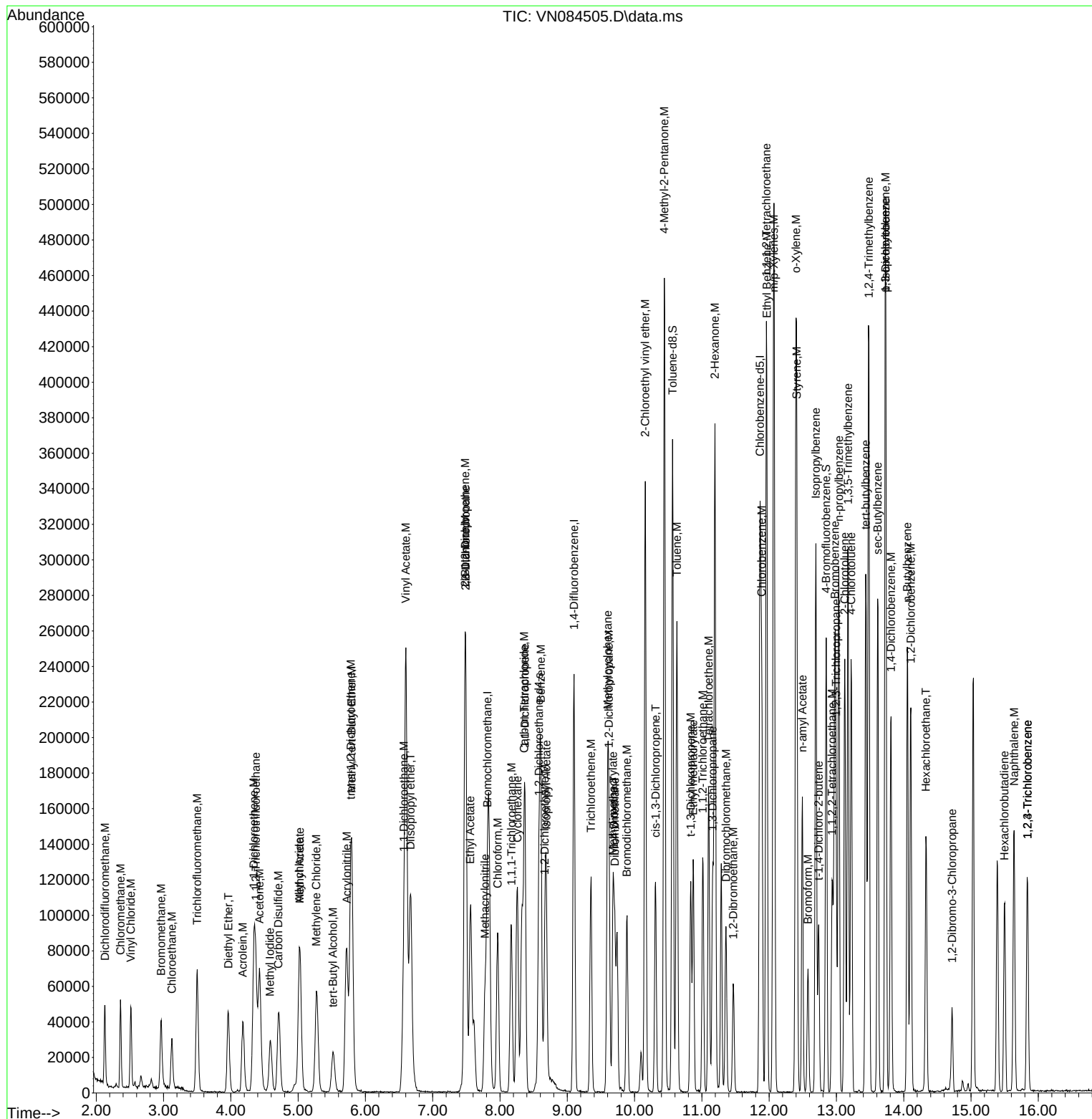
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Data File : VN084505.D
Acq On : 25 Oct 2024 10:40
Operator : JC\MD
Sample : VN1025WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

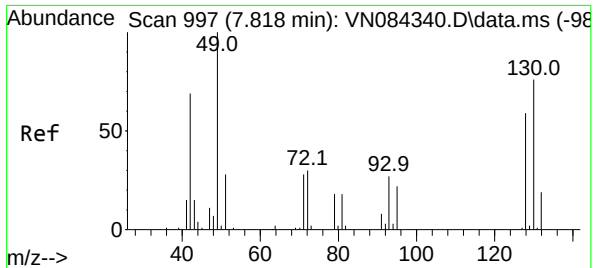
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

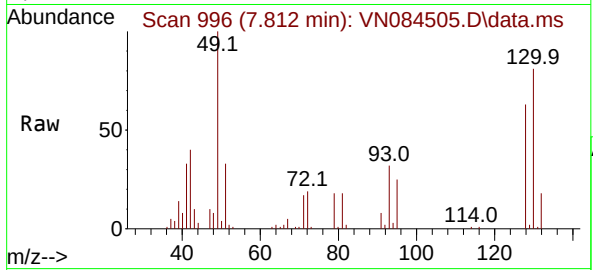
Quant Time: Oct 26 05:25:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

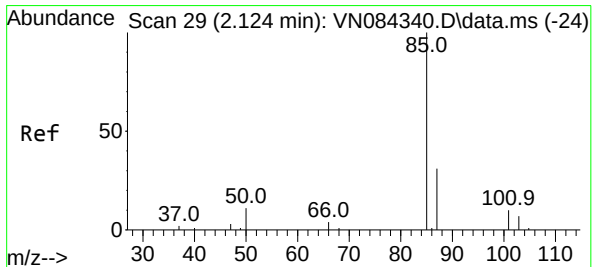
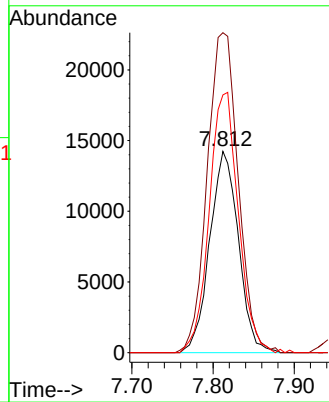
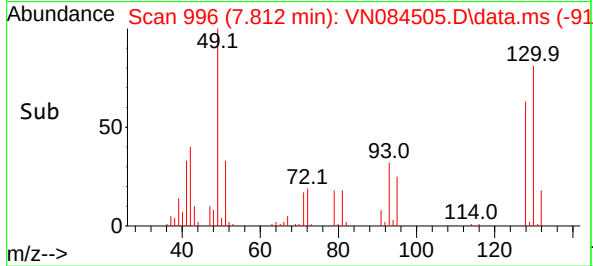
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion:128 Resp: 35000
Ion Ratio Lower Upper
128 100
49 171.3 0.0 430.0
130 131.3 0.0 329.8

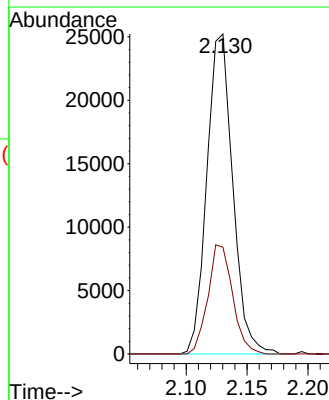
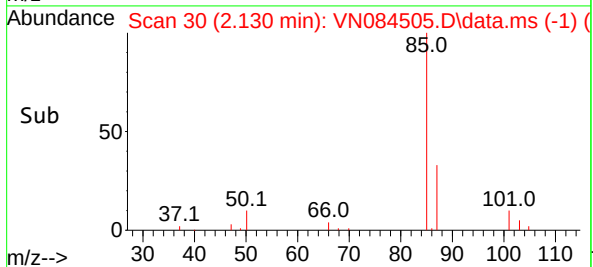
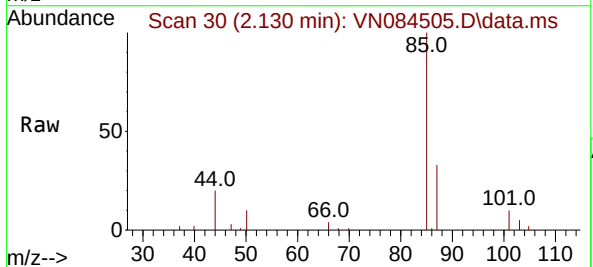
Manual Integrations
APPROVED

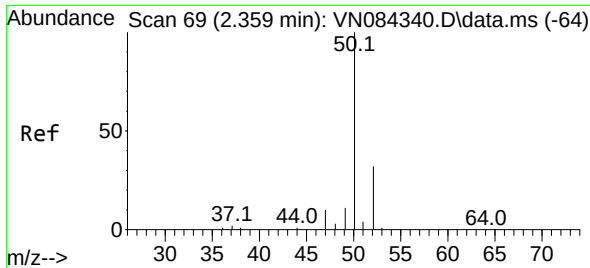
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#2
Dichlorodifluoromethane
Concen: 17.511 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion: 85 Resp: 37425
Ion Ratio Lower Upper
85 100
87 33.4 15.4 46.4





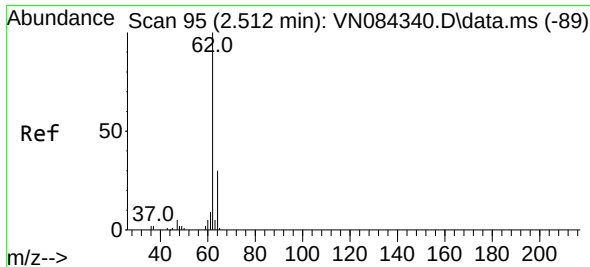
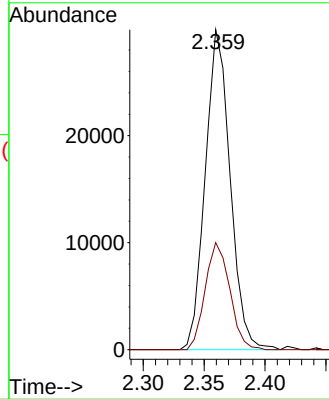
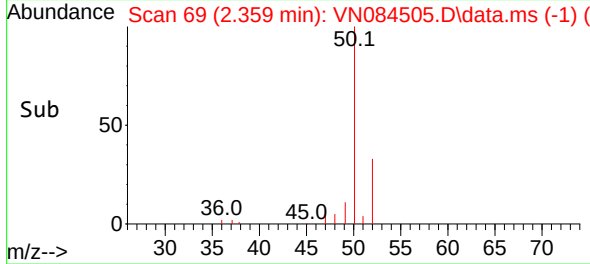
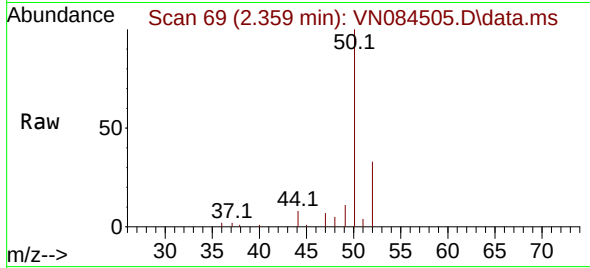
#3
Chloromethane
Concen: 17.456 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion: 50 Resp: 4245
Ion Ratio Lower Upper
50 100
52 33.4 25.8 38.6

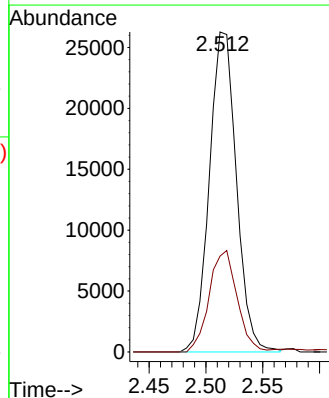
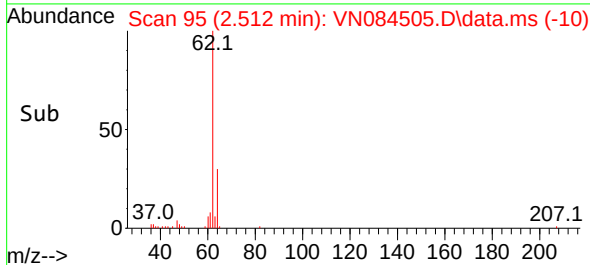
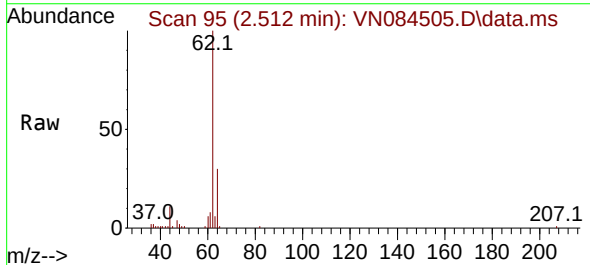
Manual Integrations
APPROVED

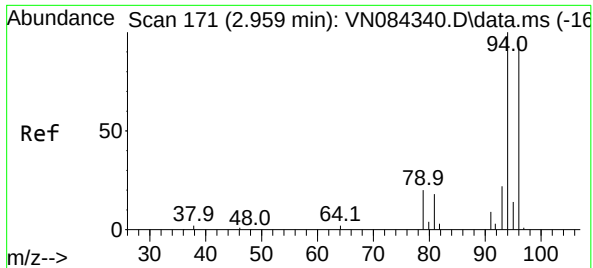
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#4
Vinyl Chloride
Concen: 18.237 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion: 62 Resp: 43498
Ion Ratio Lower Upper
62 100
64 29.9 24.3 36.5





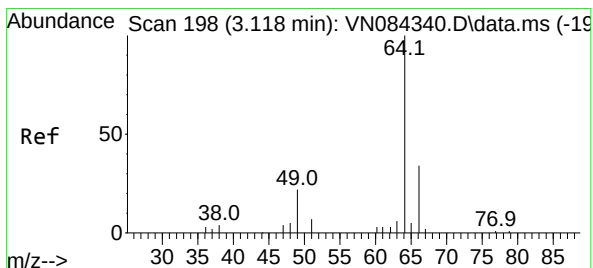
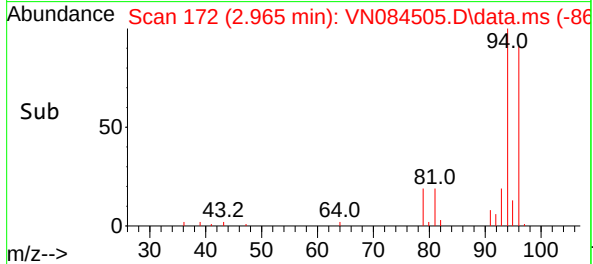
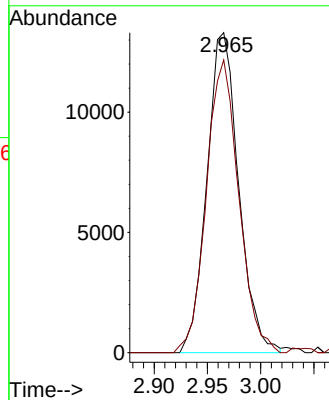
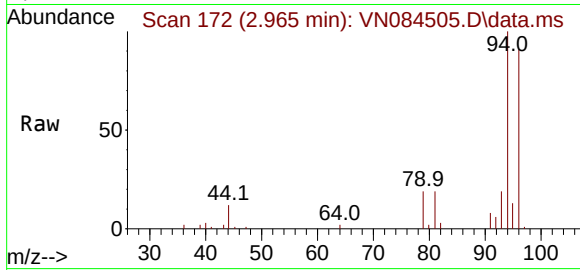
#5
Bromomethane
Concen: 17.462 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion: 94 Resp: 27594
Ion Ratio Lower Upper
94 100
96 91.5 76.7 115.1

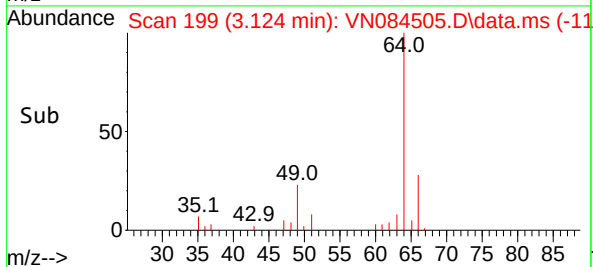
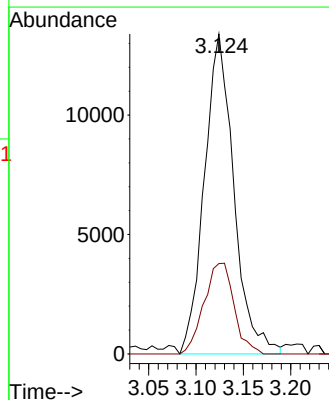
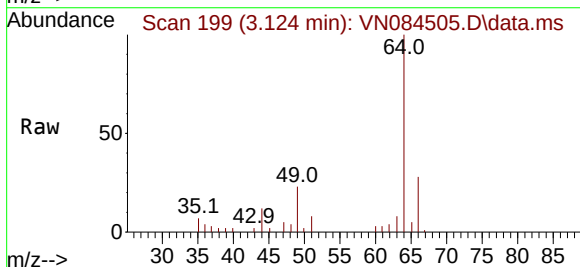
Manual Integrations
APPROVED

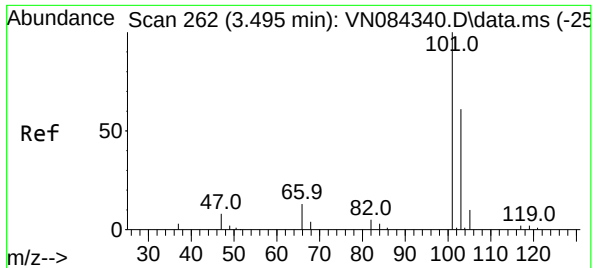
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#6
Chloroethane
Concen: 18.527 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion: 64 Resp: 28969
Ion Ratio Lower Upper
64 100
66 28.2 27.7 41.5





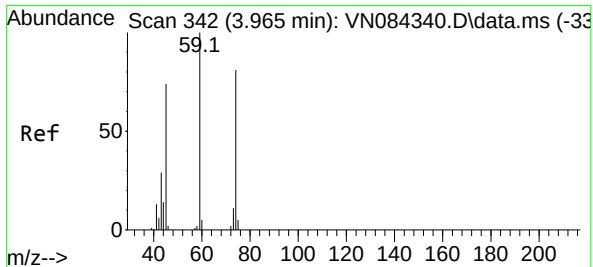
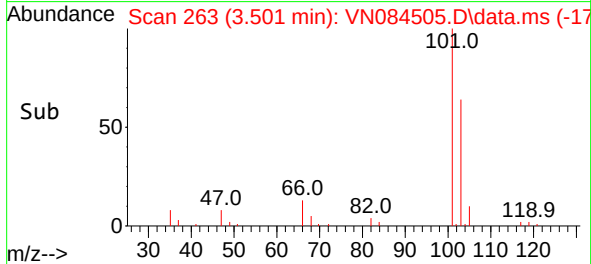
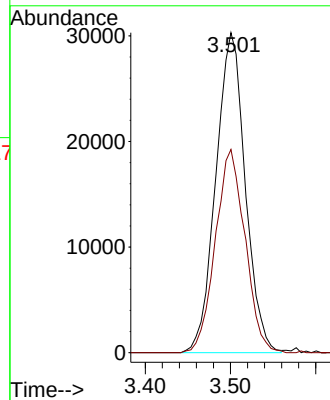
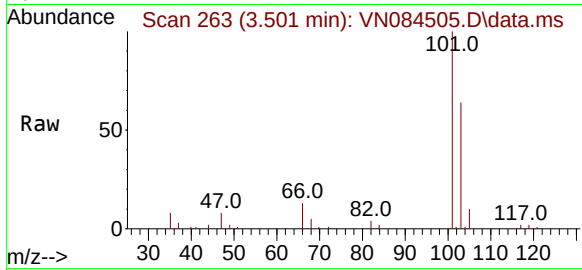
#7
Trichlorofluoromethane
Concen: 18.723 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion:101 Resp: 72738
Ion Ratio Lower Upper
101 100
103 63.5 49.0 73.6

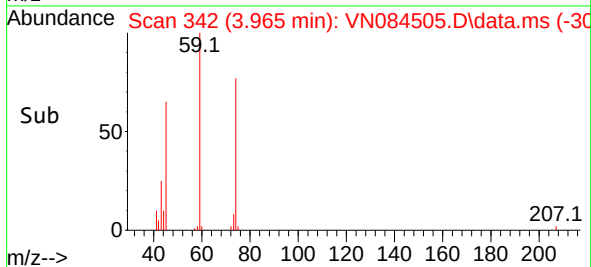
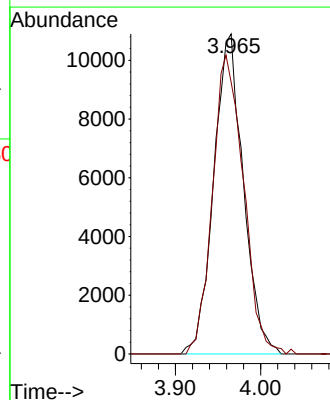
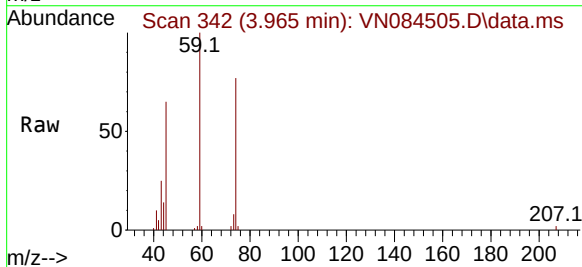
Manual Integrations
APPROVED

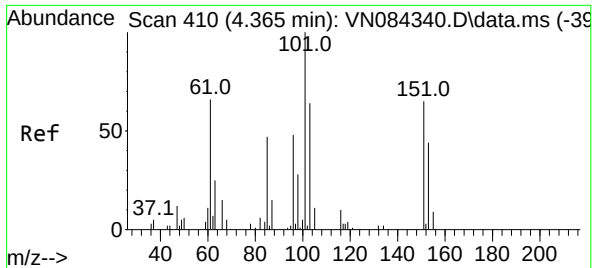
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#8
Diethyl Ether
Concen: 18.393 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion: 74 Resp: 26272
Ion Ratio Lower Upper
74 100
45 97.6 19.2 173.2





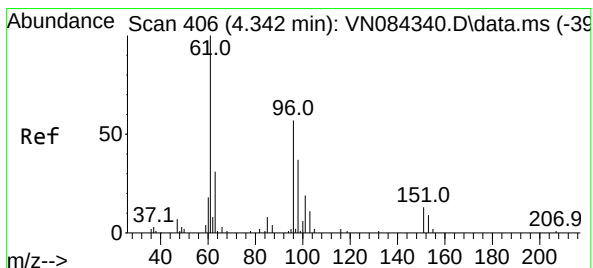
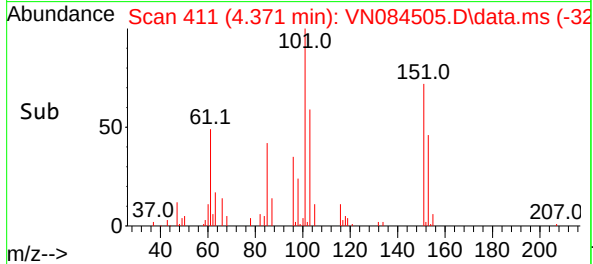
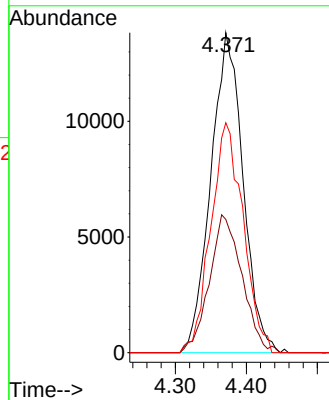
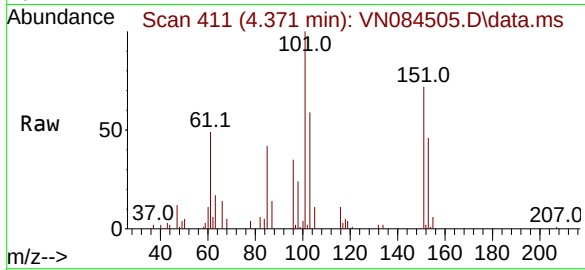
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.911 ug/l
RT: 4.371 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion:101 Resp: 43494
Ion Ratio Lower Upper
101 100
85 43.4 0.0 93.6
151 72.3 0.0 151.8

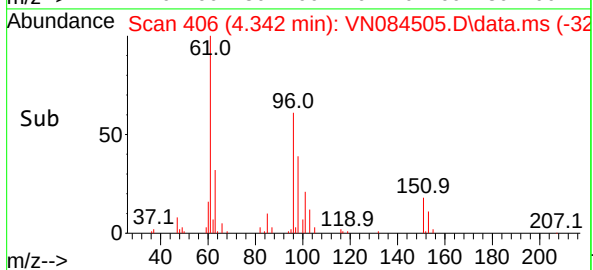
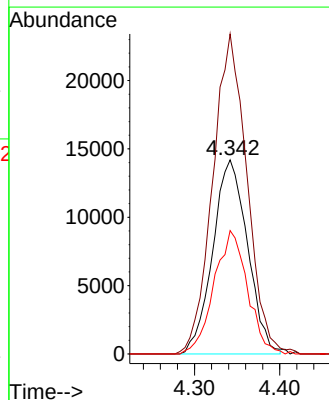
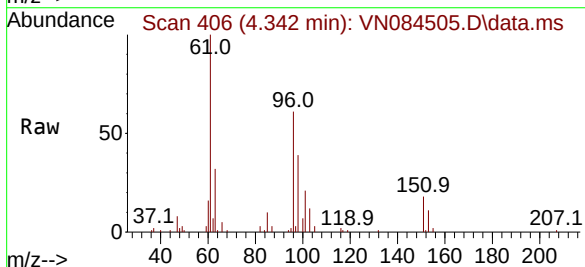
Manual Integrations
APPROVED

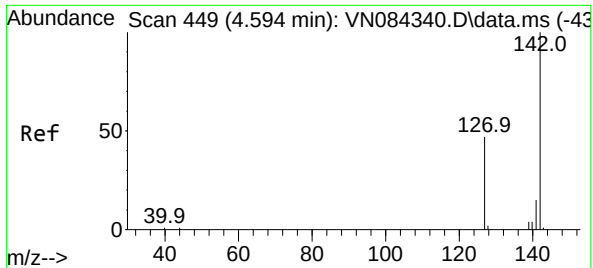
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#10
1,1-Dichloroethene
Concen: 18.475 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

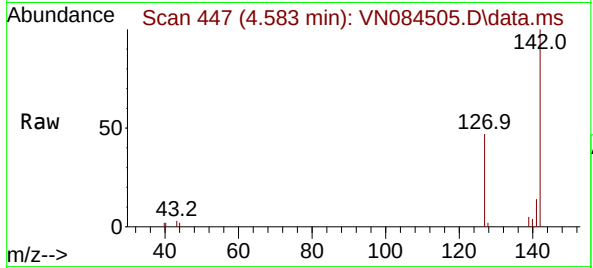
Tgt Ion: 96 Resp: 40269
Ion Ratio Lower Upper
96 100
61 163.6 140.8 211.2
98 63.6 52.2 78.2





#11
Methyl Iodide
Concen: 17.805 ug/l
RT: 4.583 min Scan# 449
Delta R.T. -0.012 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

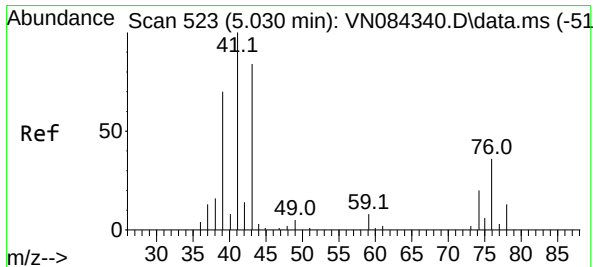
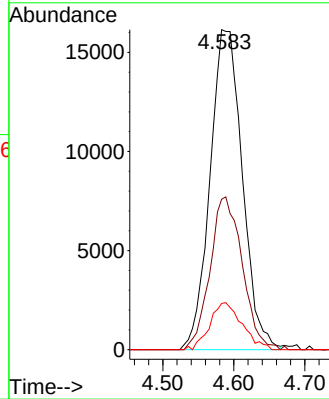
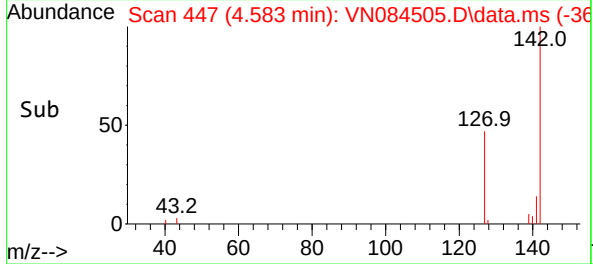
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion:142 Resp: 51000
Ion Ratio Lower Upper
142 100
127 47.2 23.8 71.4
141 14.5 7.4 22.2

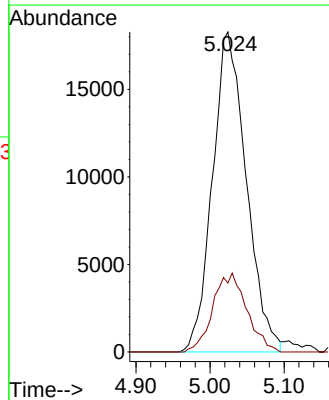
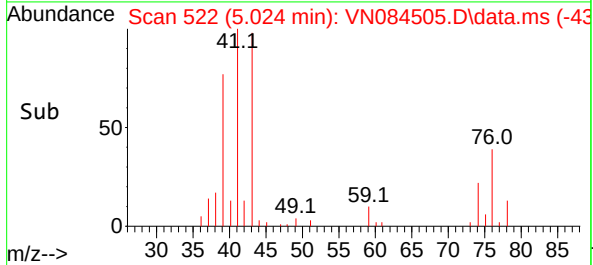
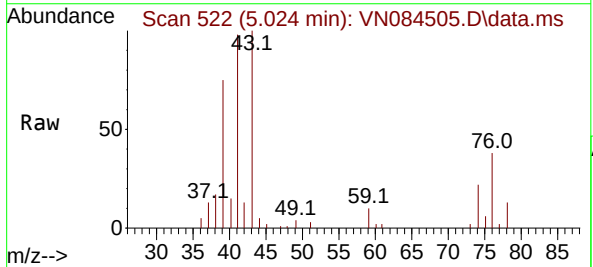
Manual Integrations
APPROVED

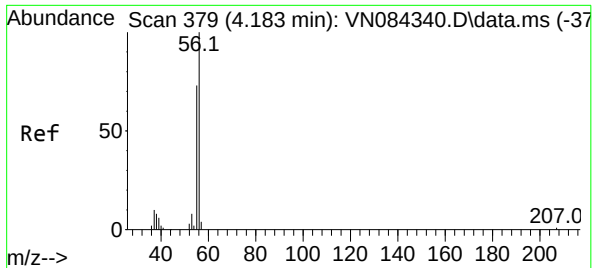
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#12
Methyl Acetate
Concen: 21.219 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion: 43 Resp: 57902
Ion Ratio Lower Upper
43 100
74 21.9 19.4 29.2





#13

Acrolein

Concen: 99.152 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 56 Resp: 50260

Ion Ratio Lower Upper

56 100

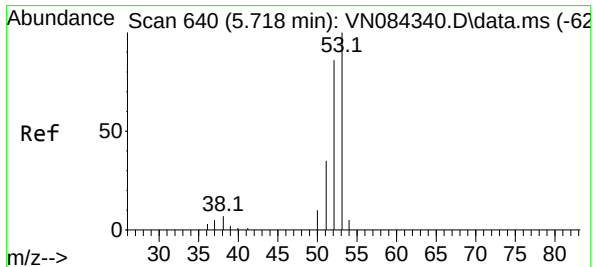
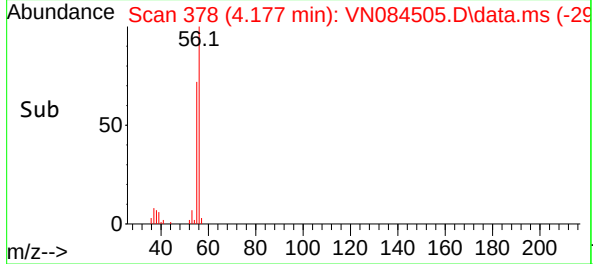
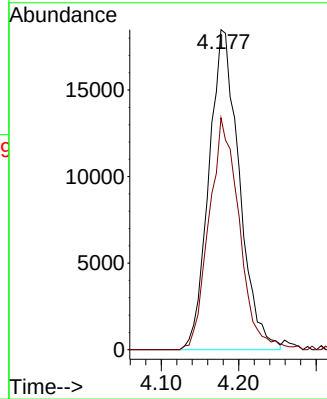
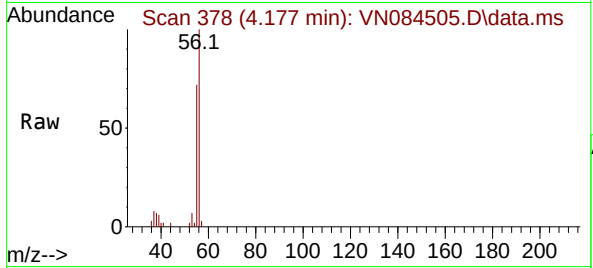
55 72.1 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#14

Acrylonitrile

Concen: 89.236 ug/l

RT: 5.724 min Scan# 641

Delta R.T. 0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

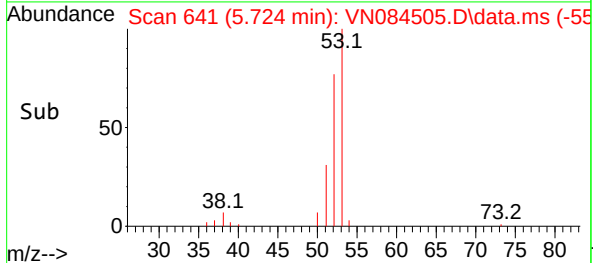
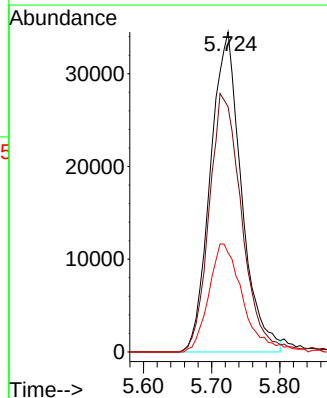
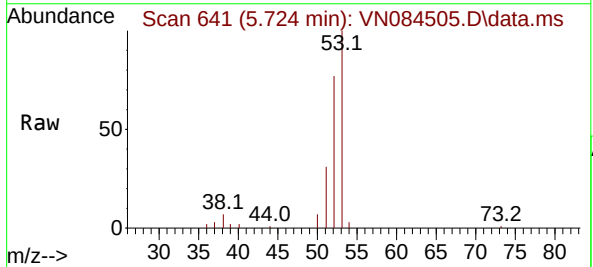
Tgt Ion: 53 Resp: 109397

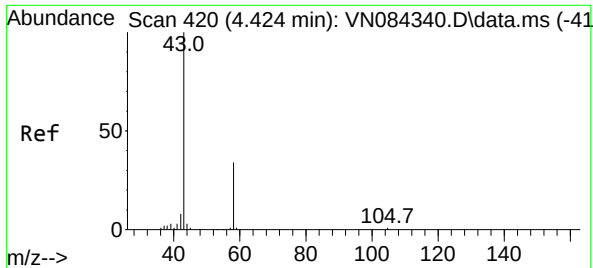
Ion Ratio Lower Upper

53 100

52 84.6 40.4 121.2

51 36.9 17.8 53.4





#15

Acetone

Concen: 112.125 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 58 Resp: 39260

Ion Ratio Lower Upper

58 100

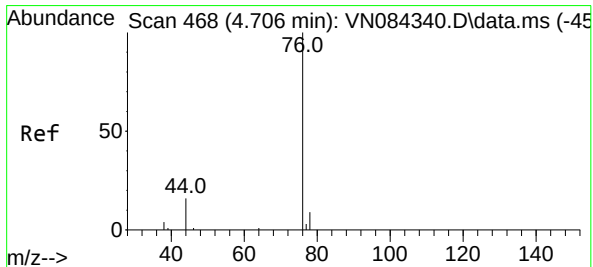
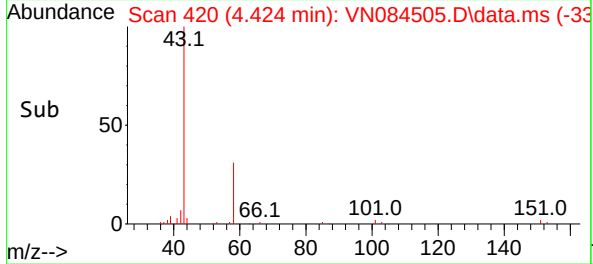
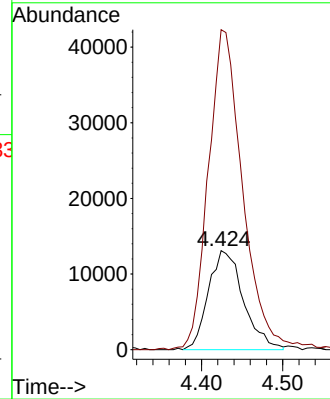
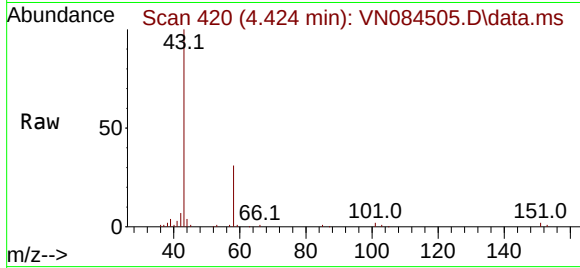
43 320.1 237.5 356.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#16

Carbon Disulfide

Concen: 16.511 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN084505.D

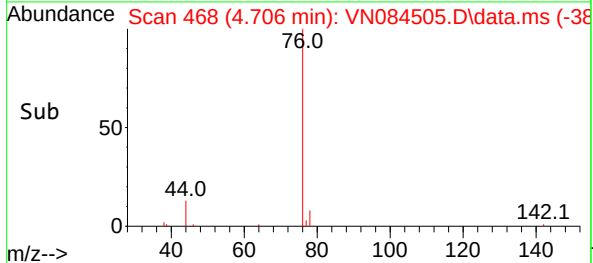
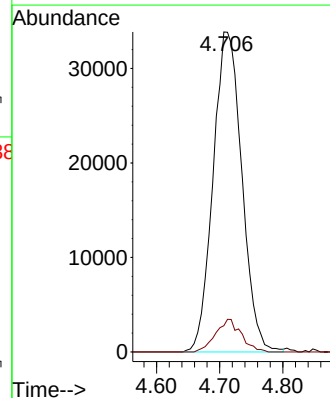
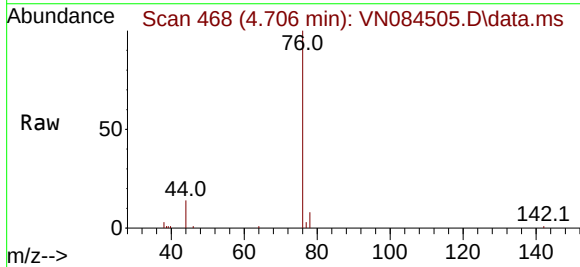
Acq: 25 Oct 2024 10:40

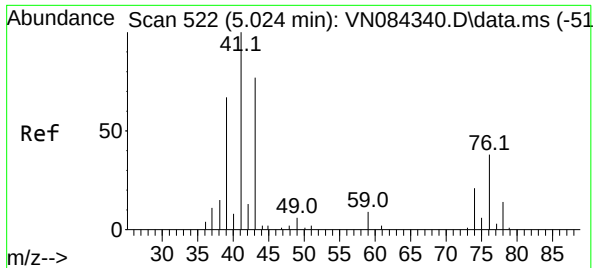
Tgt Ion: 76 Resp: 107167

Ion Ratio Lower Upper

76 100

78 8.2 7.1 10.7





#17

Allyl chloride

Concen: 17.623 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

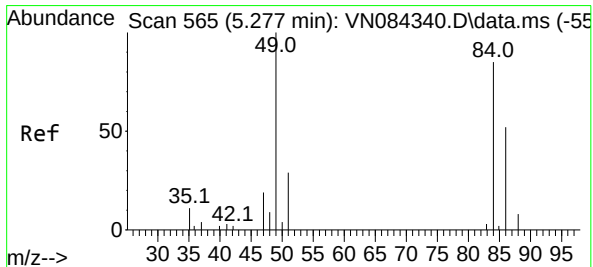
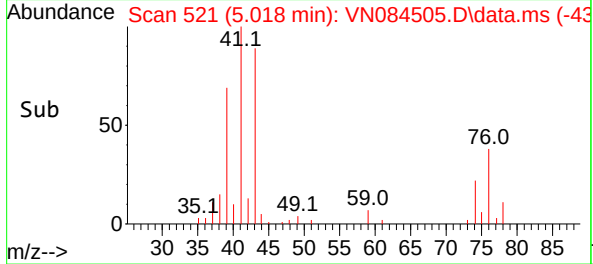
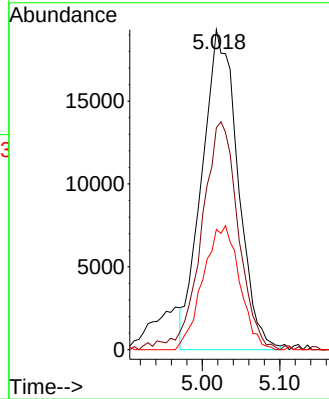
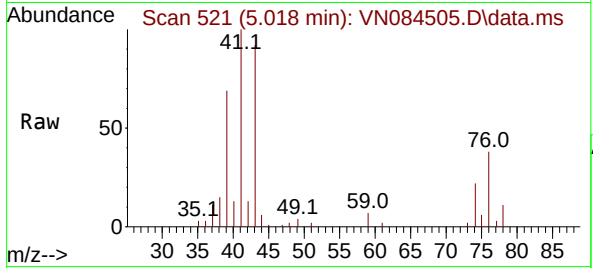
VN1025WBS01

Tgt Ion:	41	Resp:	6226
Ion	Ratio	Lower	Upper
41	100		
39	70.2	31.4	94.3
76	38.0	17.8	53.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#18

Methylene Chloride

Concen: 19.022 ug/l

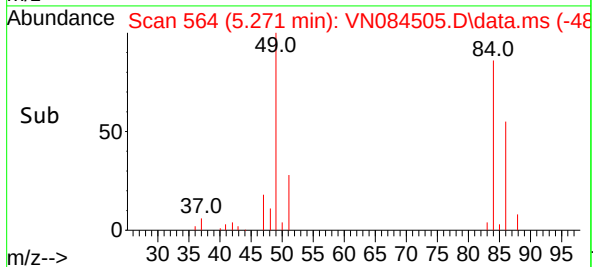
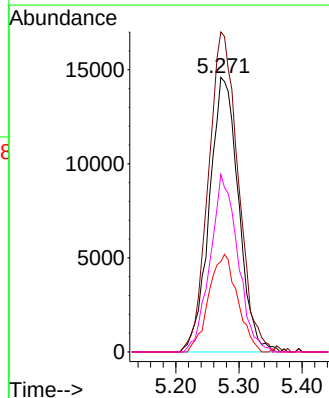
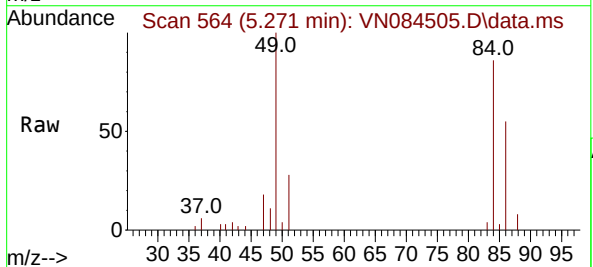
RT: 5.271 min Scan# 564

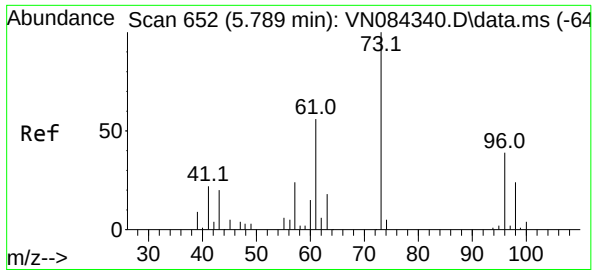
Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Tgt Ion:	84	Resp:	46706
Ion	Ratio	Lower	Upper
84	100		
49	116.6	94.6	142.0
51	32.9	27.3	40.9
86	64.6	49.4	74.0





#19

trans-1,2-Dichloroethene

Concen: 17.802 ug/l

RT: 5.783 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 96 Resp: 4106

Ion Ratio Lower Upper

96 100

61 135.9 115.8 173.6

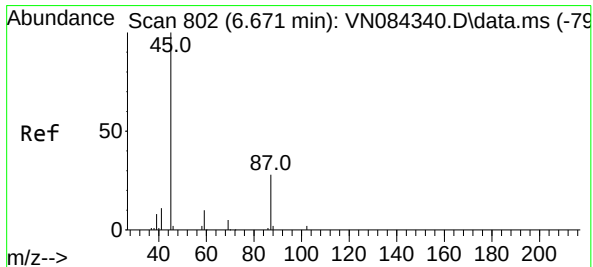
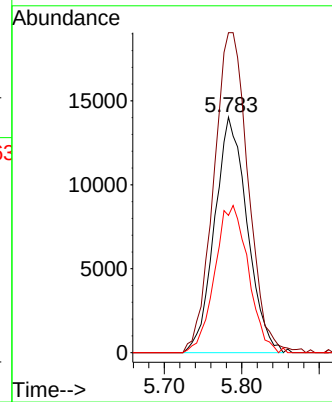
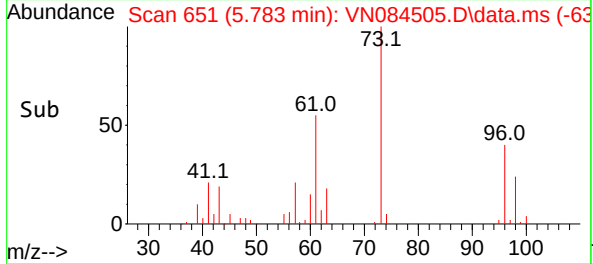
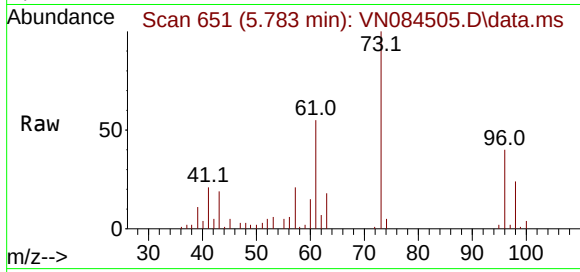
98 58.3 49.4 74.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#20

Diisopropyl ether

Concen: 19.284 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Tgt Ion: 45 Resp: 146499

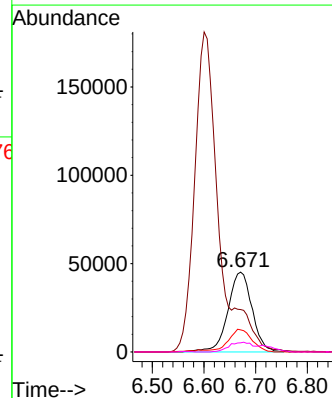
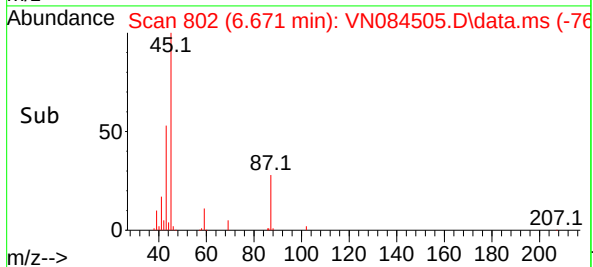
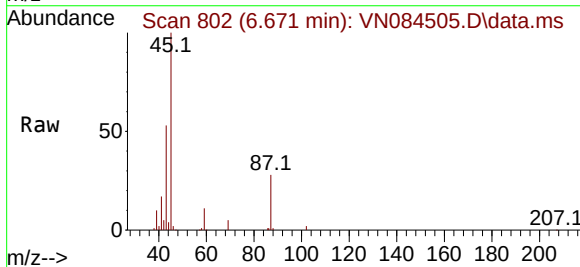
Ion Ratio Lower Upper

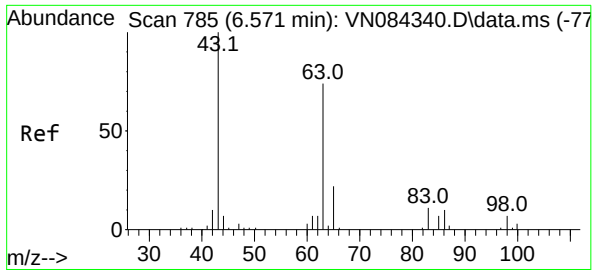
45 100

43 51.2 43.7 65.5

87 27.4 23.1 34.7

59 10.8 8.2 12.4





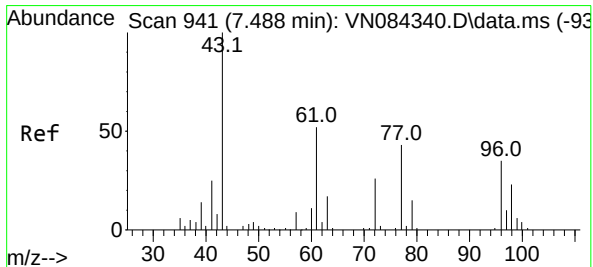
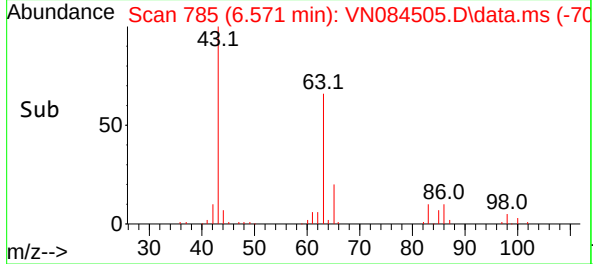
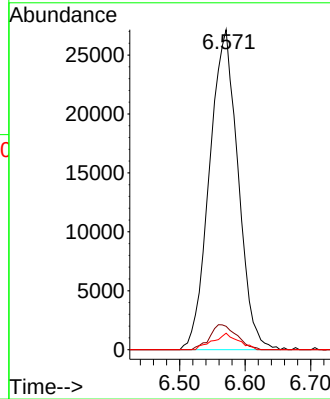
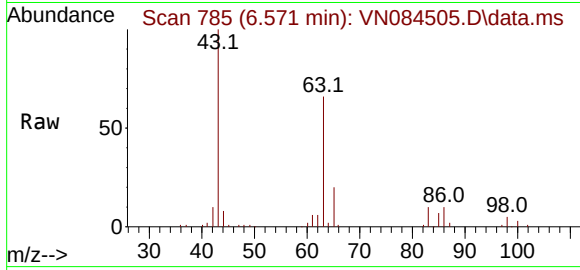
#21
1,1-Dichloroethane
Concen: 18.849 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion: 63 Resp: 8216
Ion Ratio Lower Upper
63 100
98 7.3 4.5 13.4
100 5.1 2.1 6.3

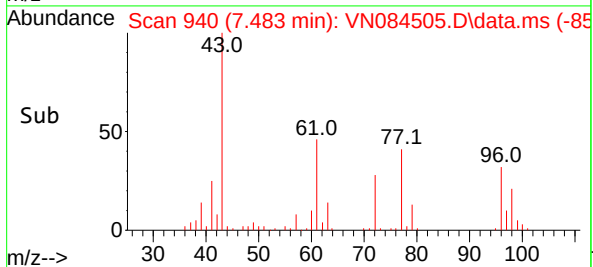
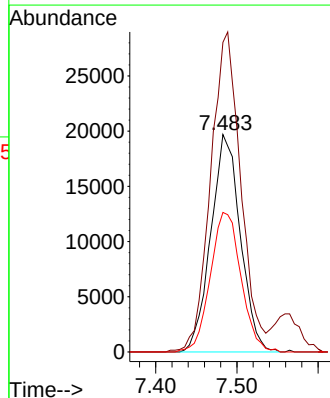
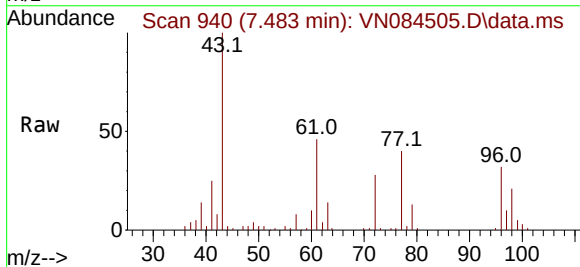
Manual Integrations
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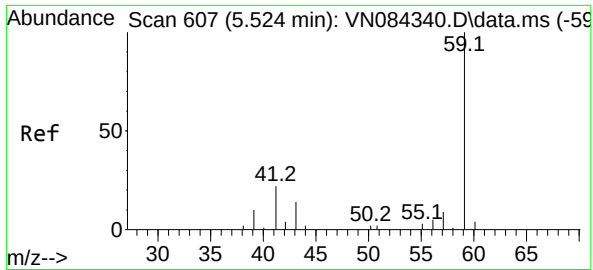
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#22
cis-1,2-Dichloroethene
Concen: 18.544 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion: 96 Resp: 49779
Ion Ratio Lower Upper
96 100
61 149.8 118.0 177.0
98 66.5 51.8 77.8





#23

tert-Butyl Alcohol

Concen: 87.026 ug/l

RT: 5.518 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 59 Resp: 4092

Ion Ratio Lower Upper

59 100

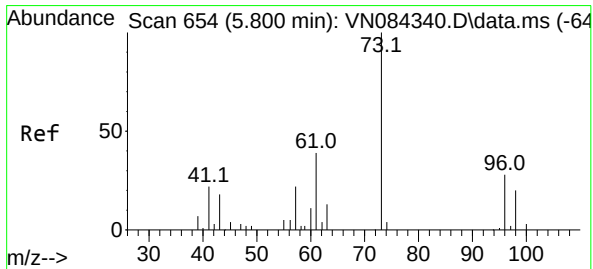
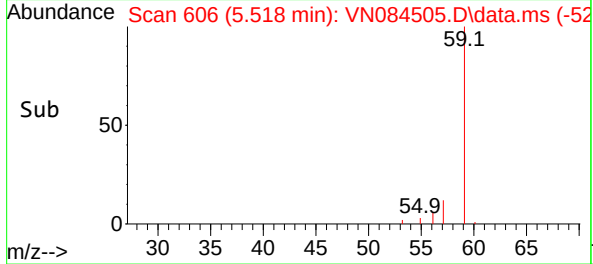
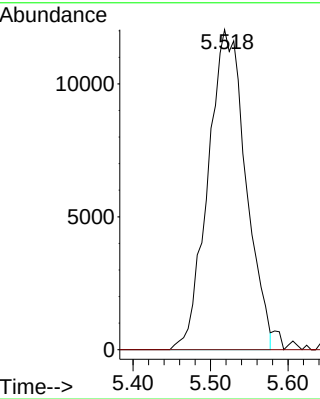
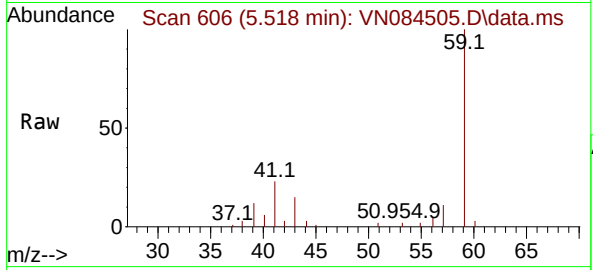
52 0.0 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#24

Methyl tert-Butyl Ether

Concen: 18.758 ug/l

RT: 5.795 min Scan# 653

Delta R.T. -0.006 min

Lab File: VN084505.D

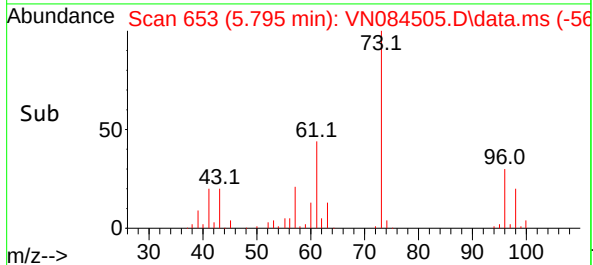
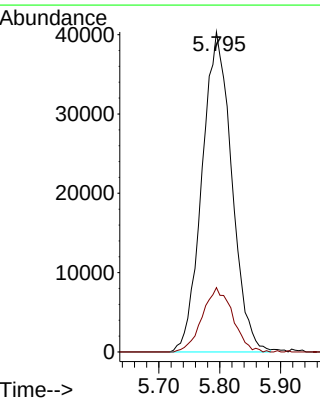
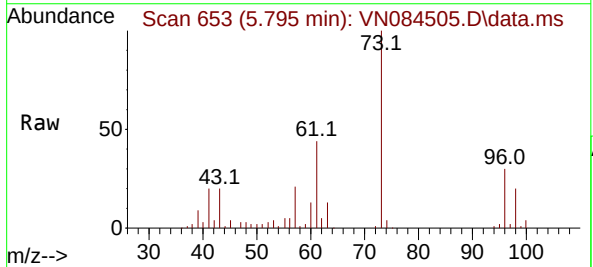
Acq: 25 Oct 2024 10:40

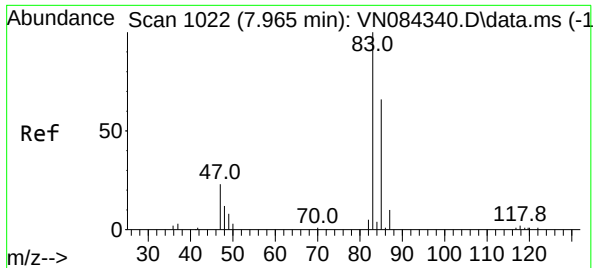
Tgt Ion: 73 Resp: 136638

Ion Ratio Lower Upper

73 100

43 20.2 10.9 16.3#





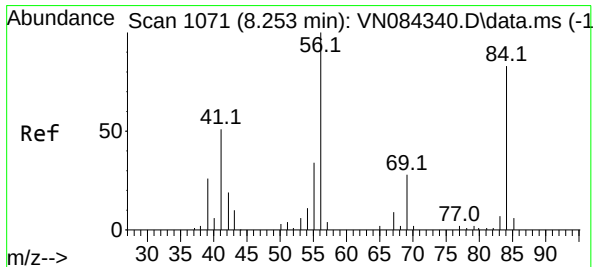
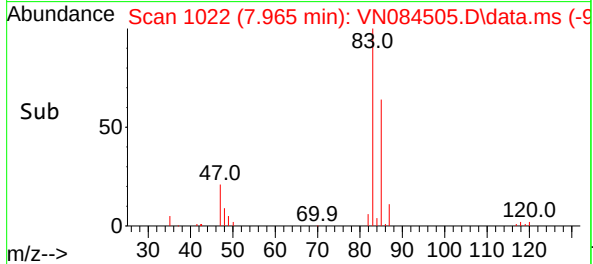
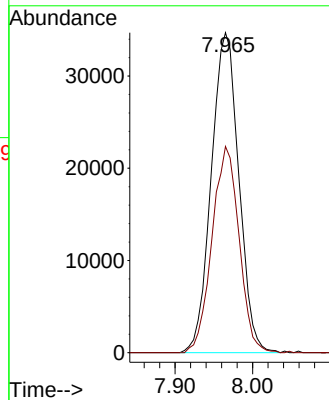
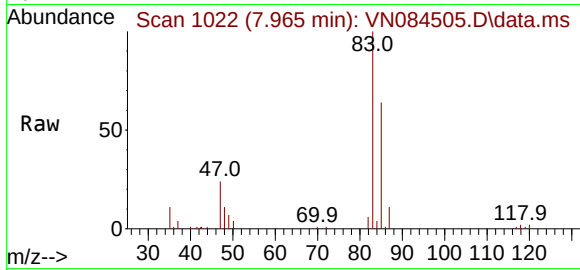
#25
Chloroform
Concen: 19.413 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion: 83 Resp: 85704
Ion Ratio Lower Upper
83 100
85 64.5 52.4 78.6

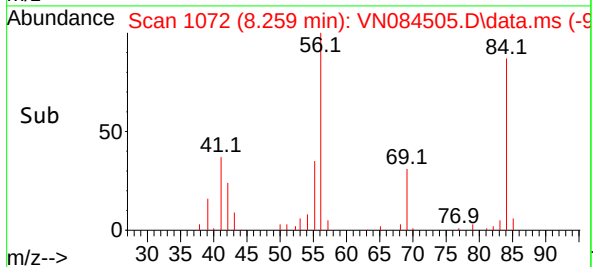
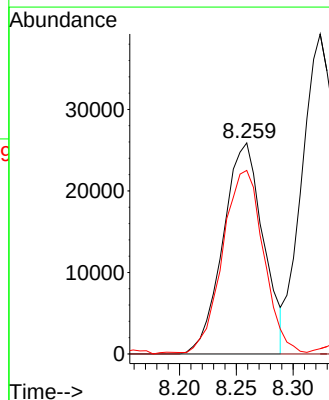
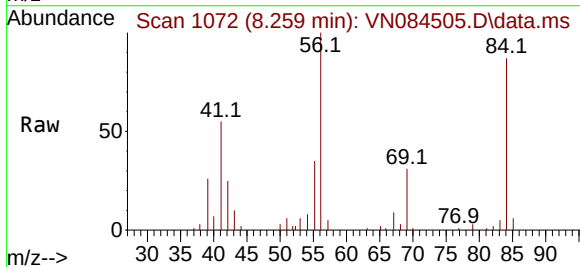
Manual Integrations
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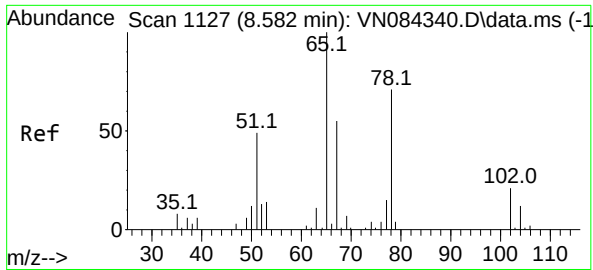
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#26
Cyclohexane
Concen: 17.453 ug/l
RT: 8.259 min Scan# 1072
Delta R.T. 0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

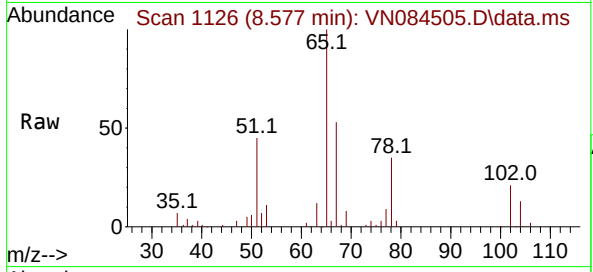
Tgt Ion: 56 Resp: 63628
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 88.9 67.0 100.6





#27
1,2-Dichloroethane-d4
Concen: 30.313 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

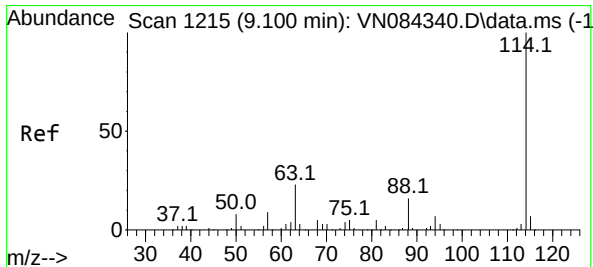
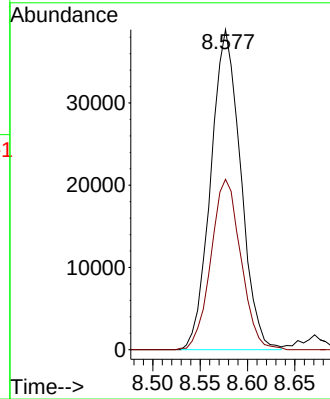
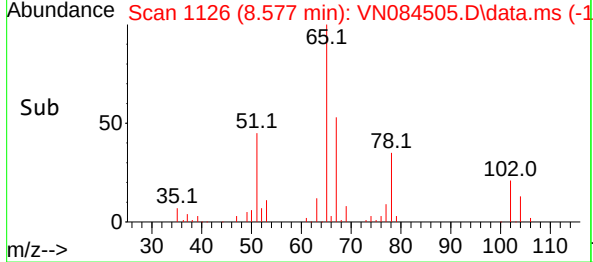
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 65 Resp: 8543
Ion Ratio Lower Upper
65 100
67 53.2 41.5 62.3

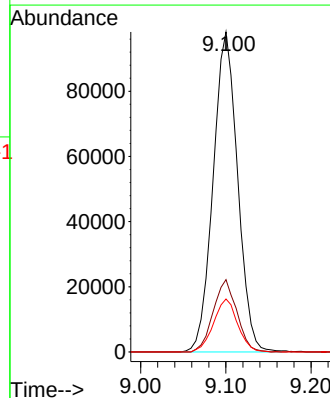
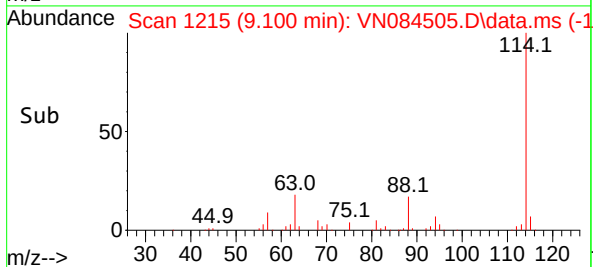
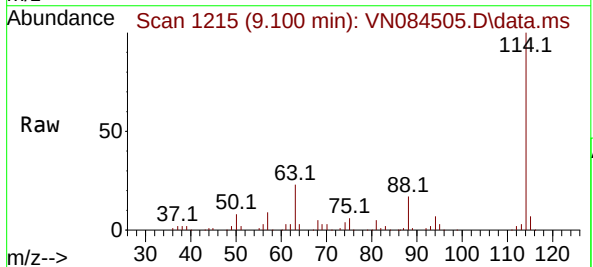
Manual Integrations
APPROVED

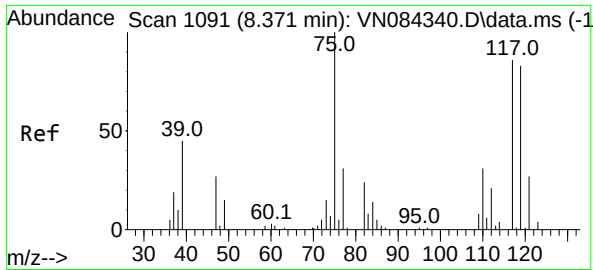
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion:114 Resp: 196424
Ion Ratio Lower Upper
114 100
63 21.8 17.4 26.0
88 16.3 13.2 19.8





#29

1,1-Dichloropropene

Concen: 17.845 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

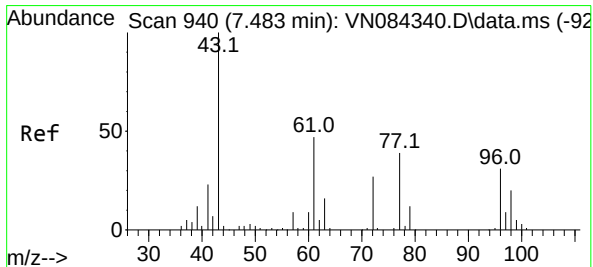
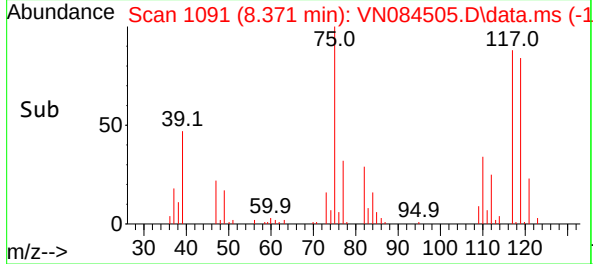
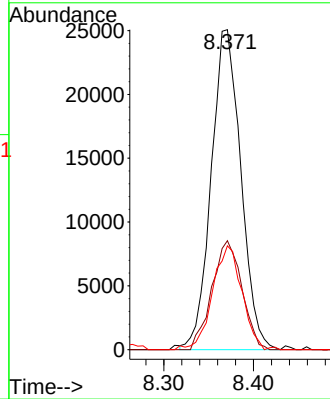
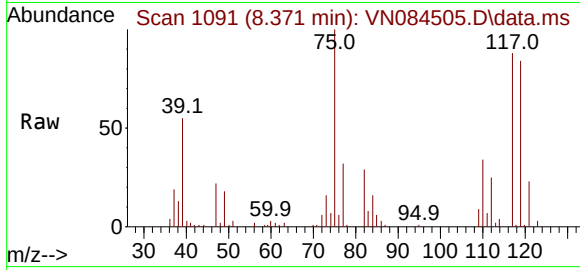
VN1025WBS01

Tgt Ion:	75	Resp:	57539
Ion	Ratio	Lower	Upper
75	100		
110	34.4	0.0	67.6
77	31.8	0.0	61.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#30

2-Butanone

Concen: 95.566 ug/l

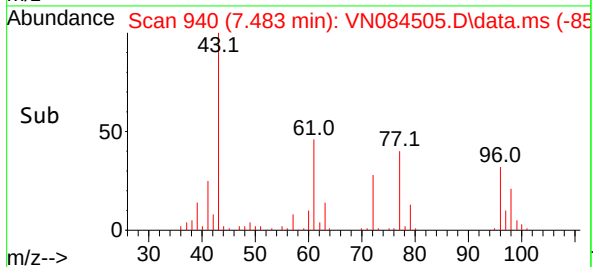
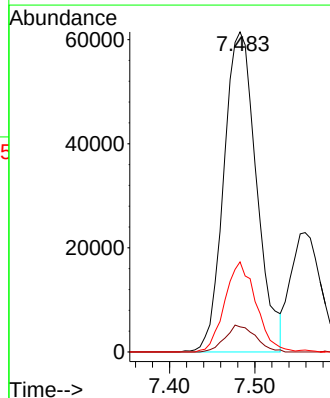
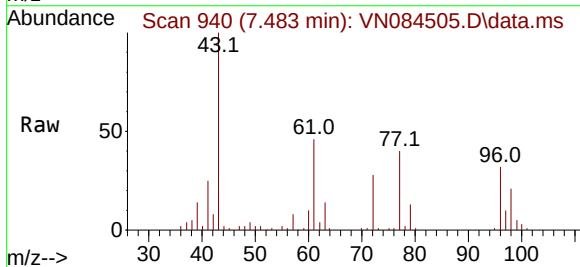
RT: 7.483 min Scan# 940

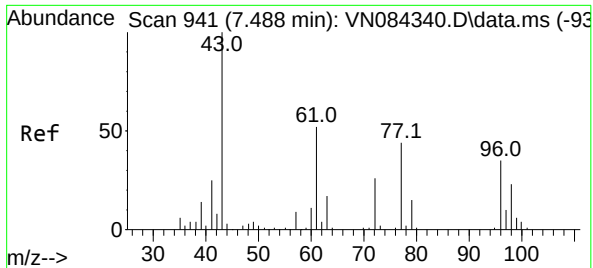
Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

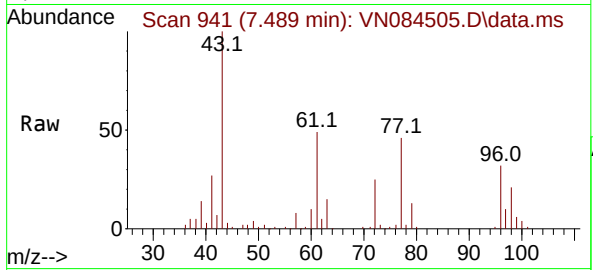
Tgt Ion:	43	Resp:	164064
Ion	Ratio	Lower	Upper
43	100		
57	7.7	6.6	9.8
72	26.9	21.3	31.9





#31
2,2-Dichloropropane
Concen: 19.426 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

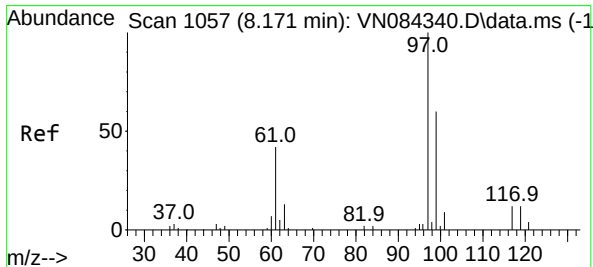
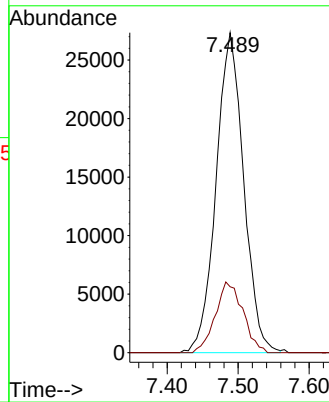
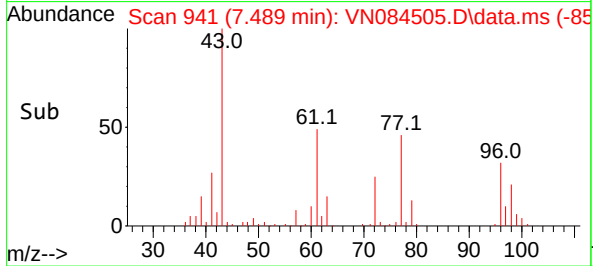
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



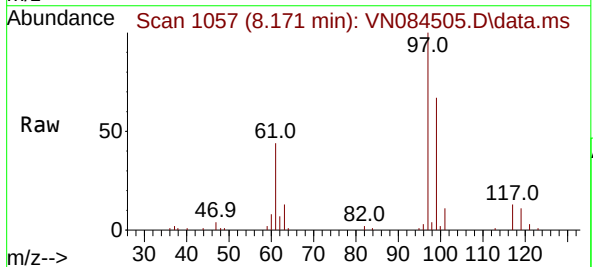
Tgt Ion: 77 Resp: 73609
Ion Ratio Lower Upper
77 100
97 22.1 11.5 17.3

Manual Integrations
APPROVED

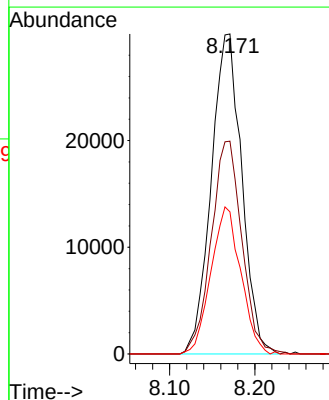
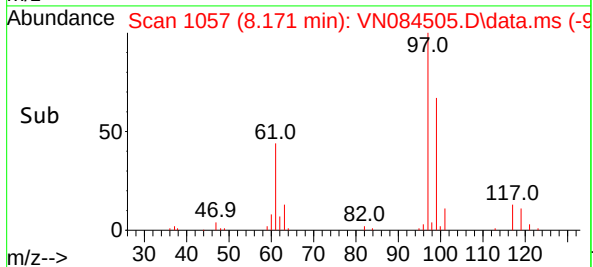
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

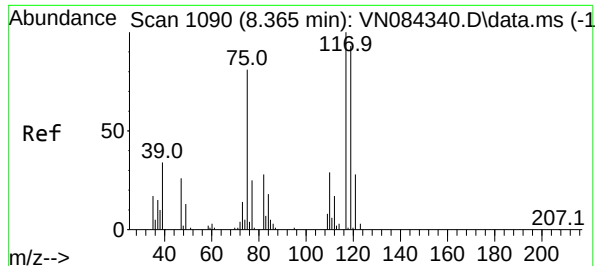


#32
1,1,1-Trichloroethane
Concen: 18.116 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40



Tgt Ion: 97 Resp: 74667
Ion Ratio Lower Upper
97 100
99 66.8 51.2 76.8
61 44.9 34.1 51.1





#33

Carbon Tetrachloride

Concen: 18.691 ug/l

RT: 8.359 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion:117 Resp: 6673

Ion Ratio Lower Upper

117 100

119 91.4 74.3 111.5

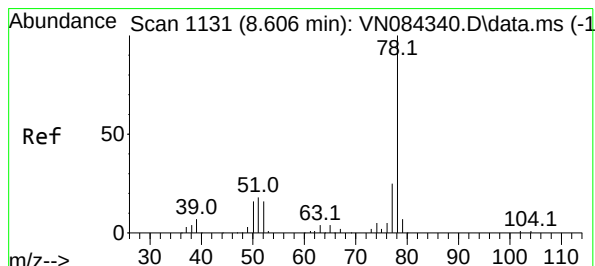
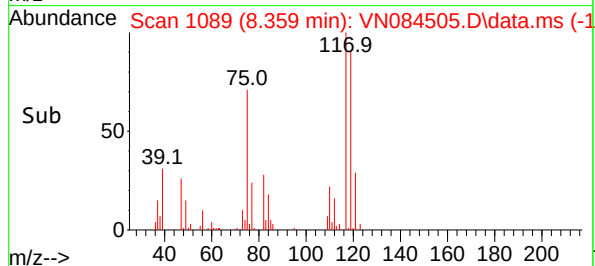
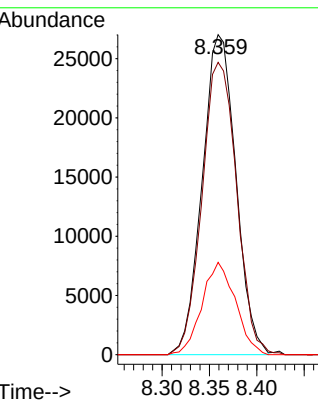
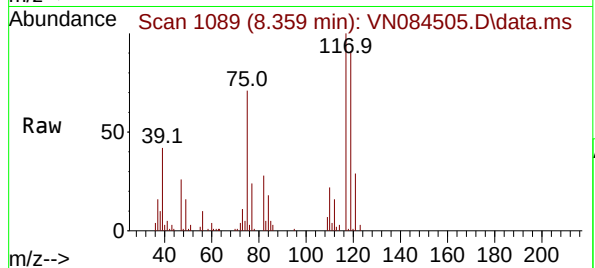
121 28.9 22.4 33.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#34

Benzene

Concen: 18.173 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

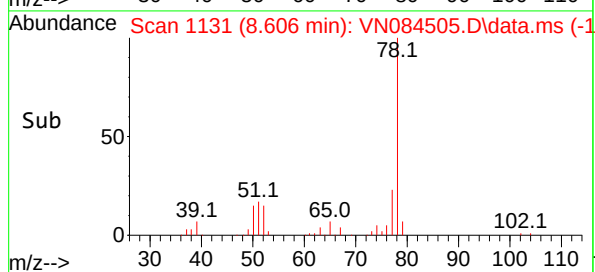
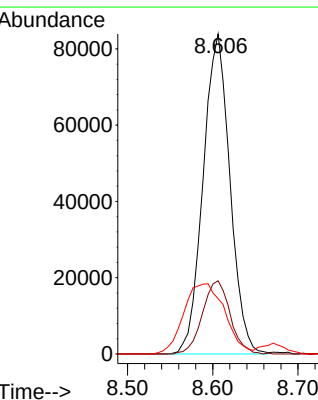
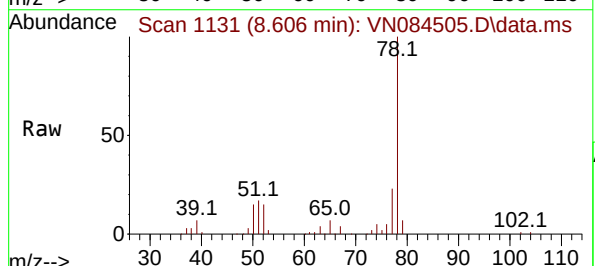
Tgt Ion: 78 Resp: 183430

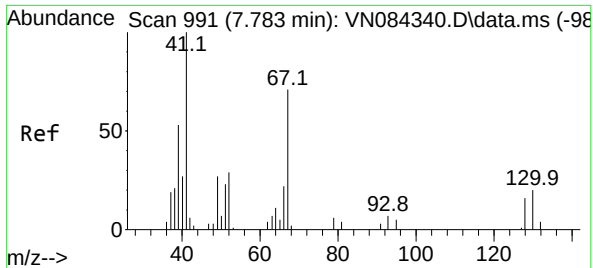
Ion Ratio Lower Upper

78 100

77 22.9 19.6 29.4

51 15.1 15.8 23.6#





#35

Methacrylonitrile

Concen: 18.169 ug/l

RT: 7.777 min Scan# 991

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 41 Resp: 33270

Ion Ratio Lower Upper

41 100

39 50.3 26.4 79.0

67 70.4 35.7 107.1

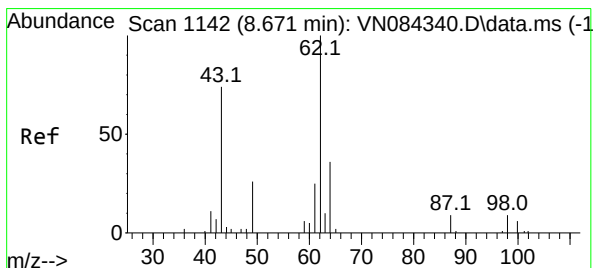
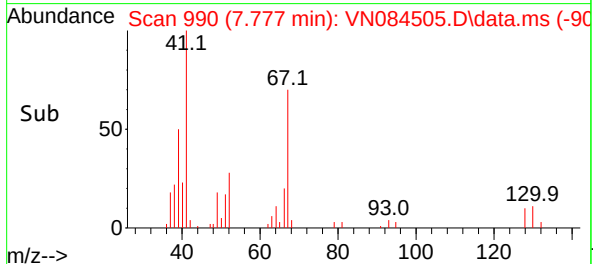
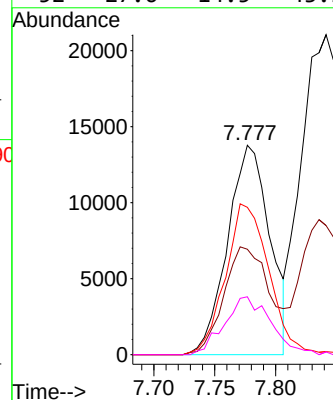
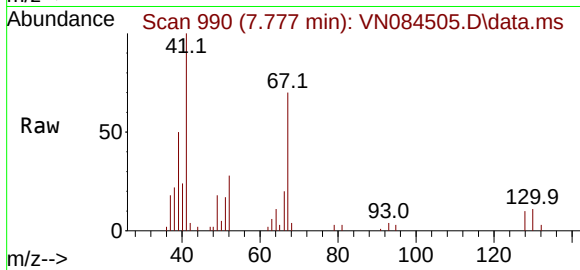
52 27.6 14.5 43.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#36

1,2-Dichloroethane

Concen: 18.777 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN084505.D

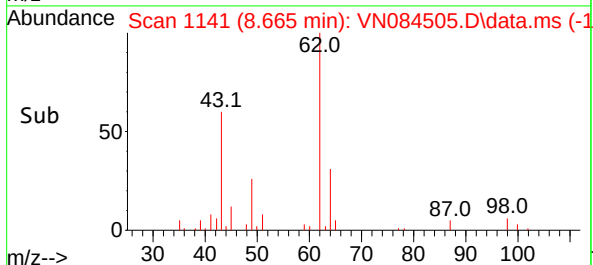
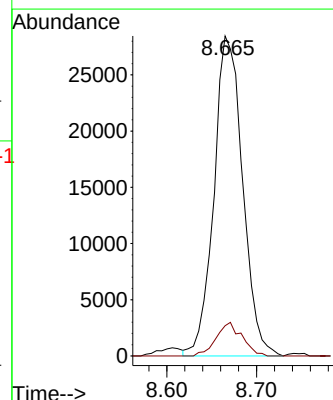
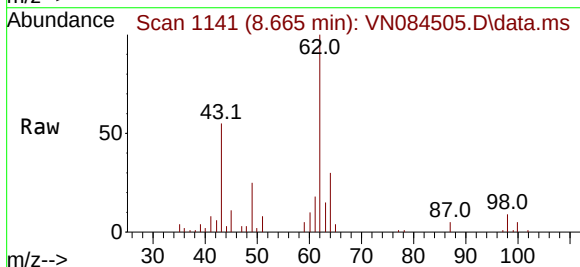
Acq: 25 Oct 2024 10:40

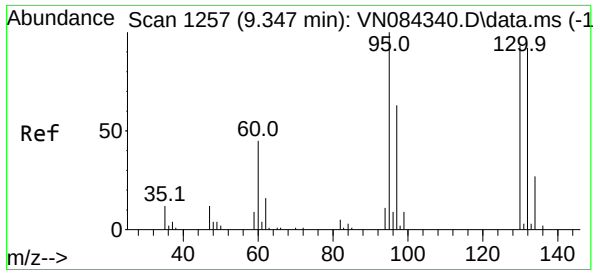
Tgt Ion: 62 Resp: 63174

Ion Ratio Lower Upper

62 100

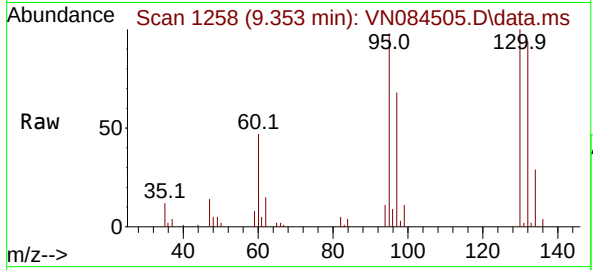
98 9.5 7.3 10.9





#37
Trichloroethene
Concen: 18.502 ug/l
RT: 9.353 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

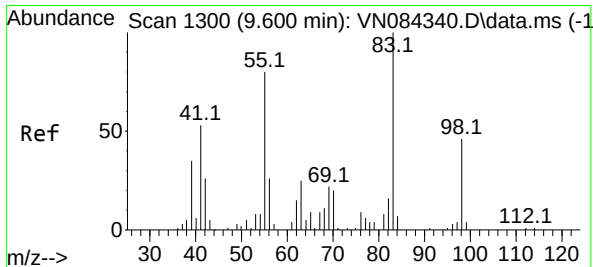
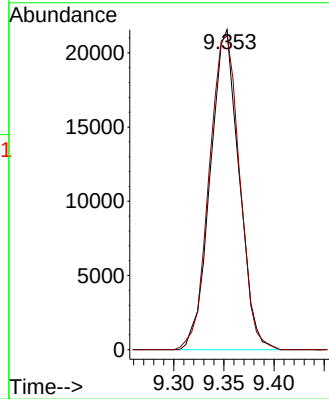
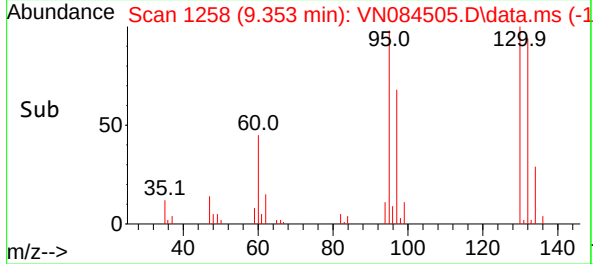
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



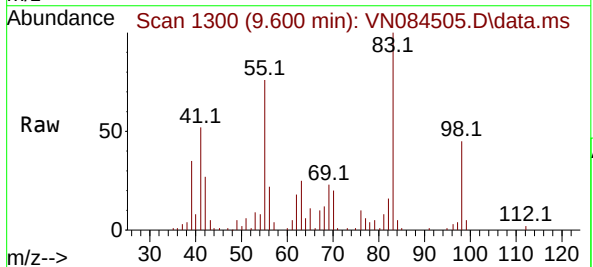
Tgt Ion:130 Resp: 43004
Ion Ratio Lower Upper
130 100
95 98.1 85.8 128.6

Manual Integrations
APPROVED

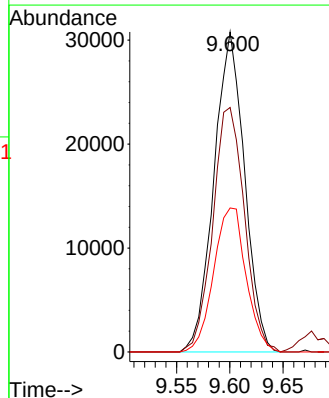
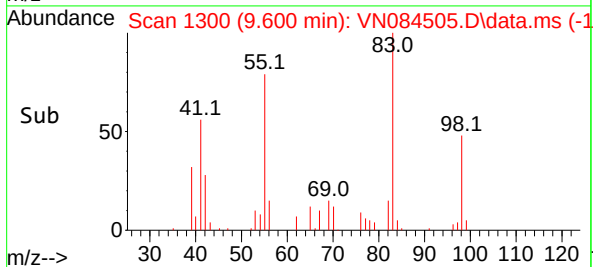
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

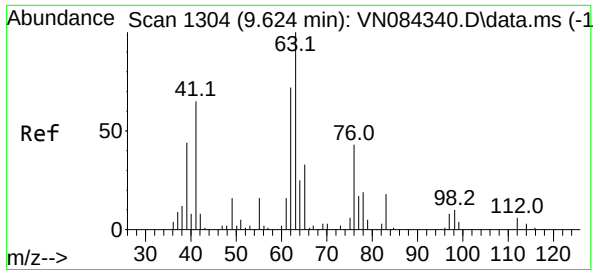


#38
Methylcyclohexane
Concen: 17.381 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40



Tgt Ion: 83 Resp: 61561
Ion Ratio Lower Upper
83 100
55 79.1 39.3 117.8
98 47.7 24.0 72.0





#39

1,2-Dichloropropane

Concen: 18.381 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 63 Resp: 4524

Ion Ratio Lower Upper

63 100

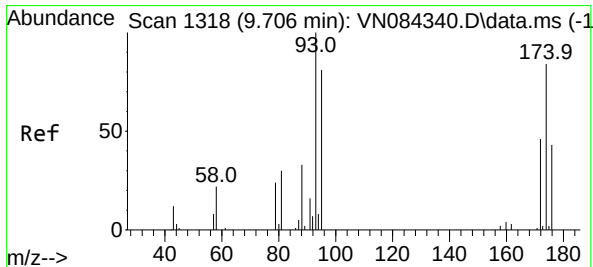
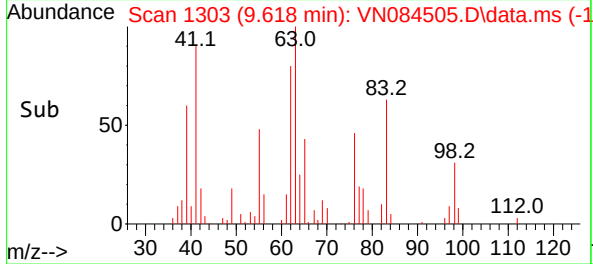
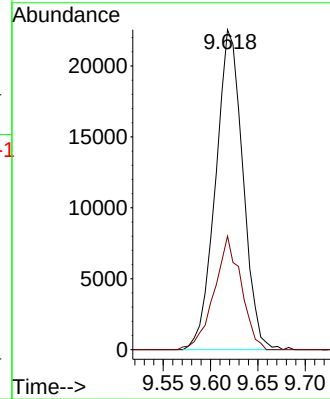
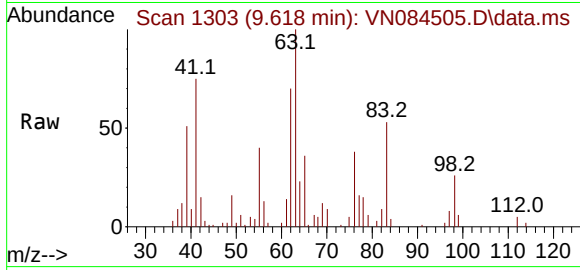
65 35.5 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#40

Dibromomethane

Concen: 18.378 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

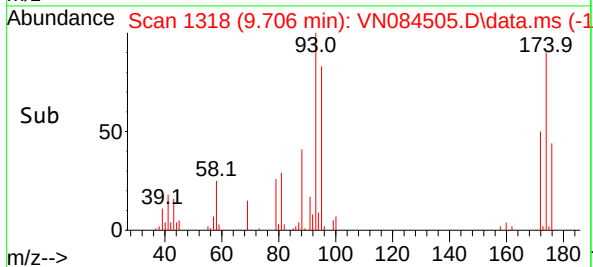
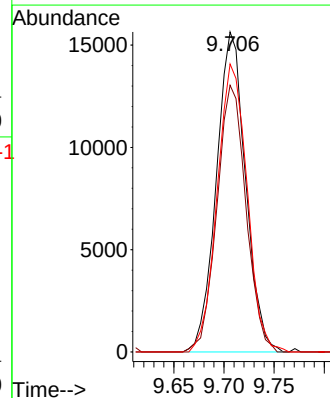
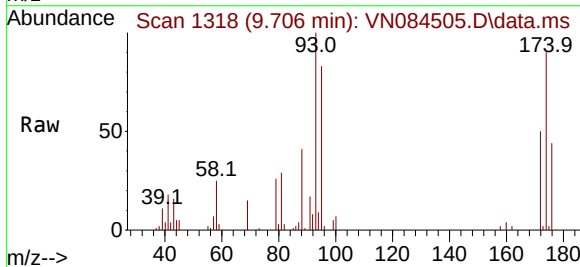
Tgt Ion: 93 Resp: 31615

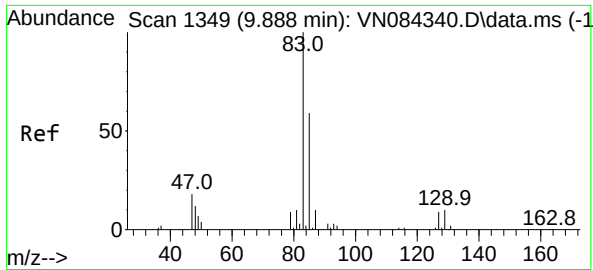
Ion Ratio Lower Upper

93 100

95 83.1 0.0 171.4

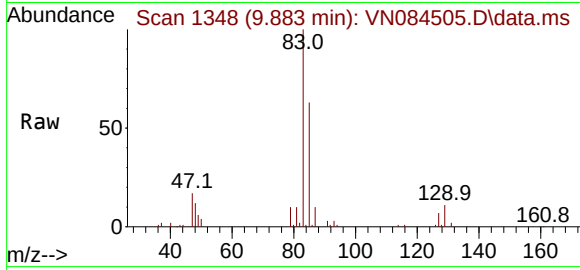
174 92.1 0.0 183.0





#41
Bromodichloromethane
Concen: 19.150 ug/l
RT: 9.883 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

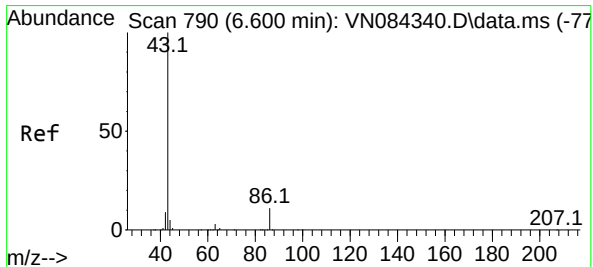
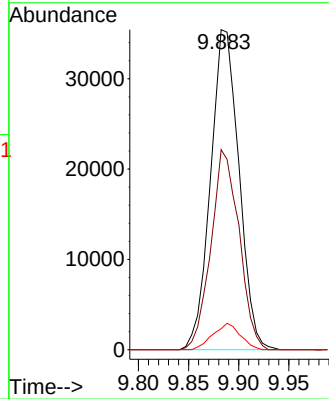
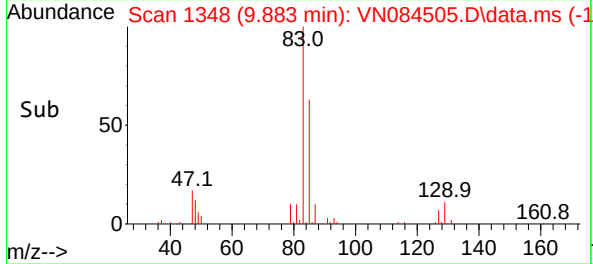
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 83 Resp: 69934
Ion Ratio Lower Upper
83 100
85 62.5 47.1 70.7
127 6.6 7.1 10.7

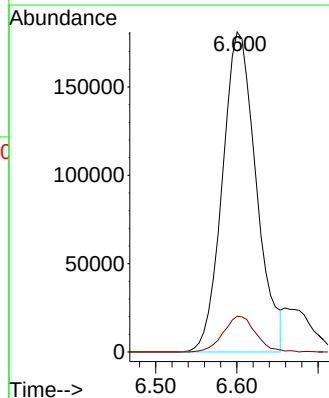
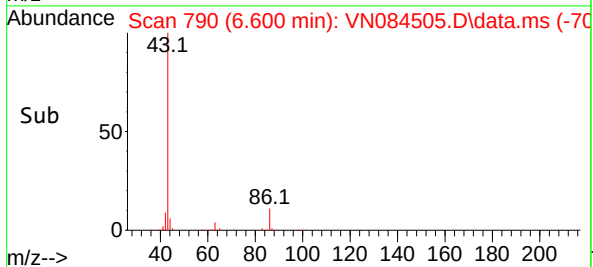
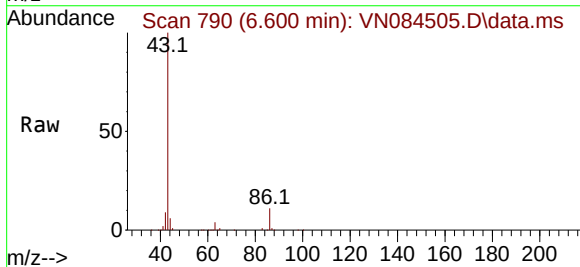
Manual Integrations
APPROVED

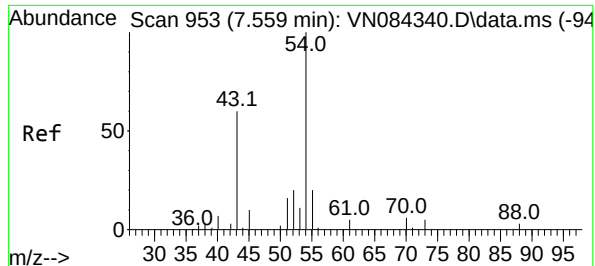
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#42
Vinyl Acetate
Concen: 87.789 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion: 43 Resp: 524167
Ion Ratio Lower Upper
43 100
86 10.6 8.5 12.7





#43

Ethyl Acetate

Concen: 15.702 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 43 Resp: 5316

Ion Ratio Lower Upper

43 100

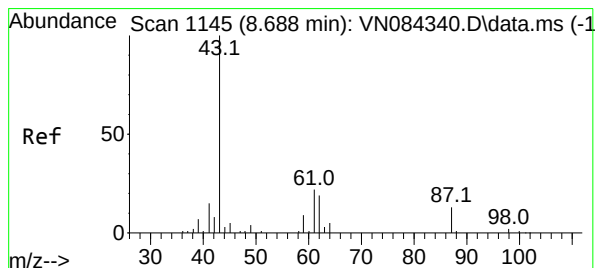
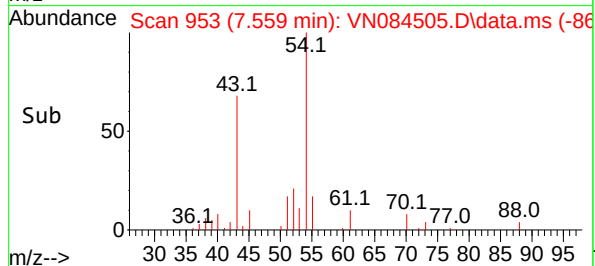
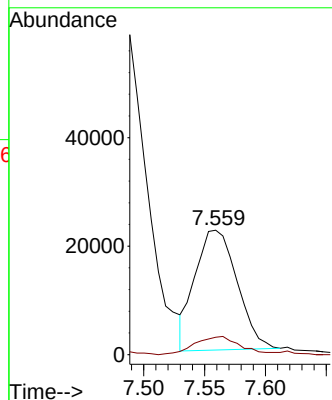
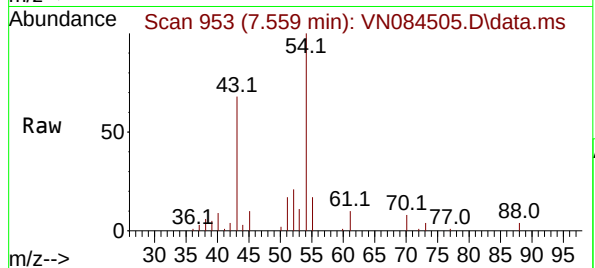
45 16.4 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#44

Isopropyl Acetate

Concen: 21.839 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084505.D

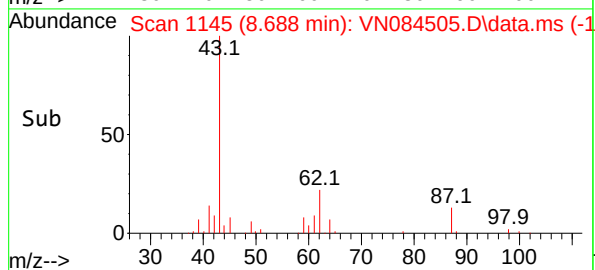
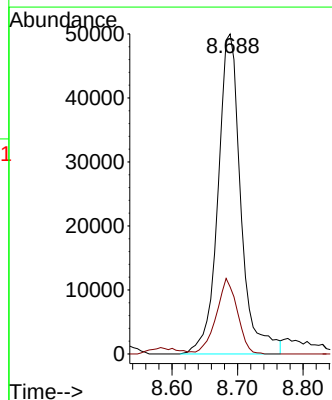
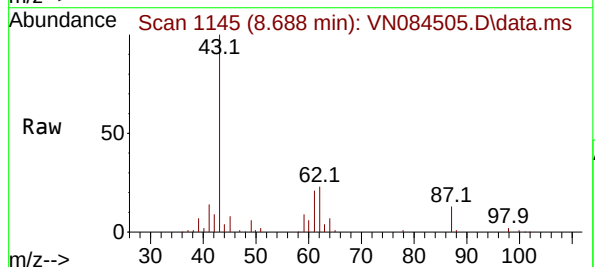
Acq: 25 Oct 2024 10:40

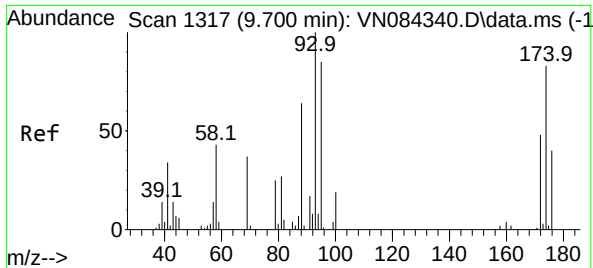
Tgt Ion: 43 Resp: 121028

Ion Ratio Lower Upper

43 100

61 21.7 21.4 32.2





#45

1,4-Dioxane

Concen: 356.411 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 88 Resp: 1780

Ion Ratio Lower Upper

88 100

43 24.7 22.4 33.6

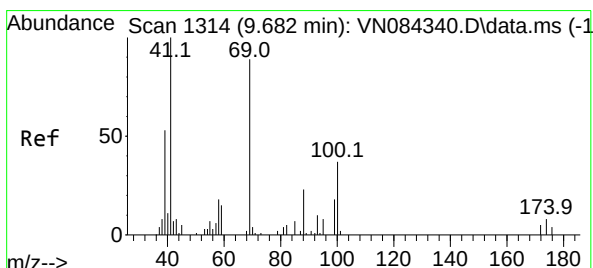
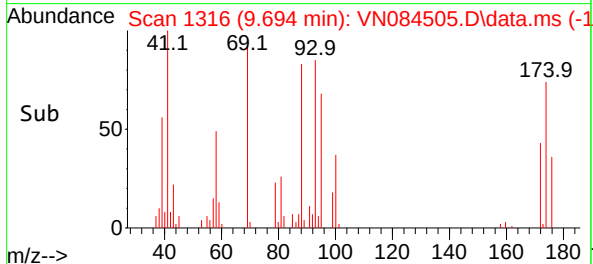
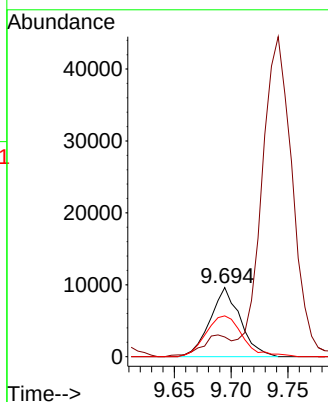
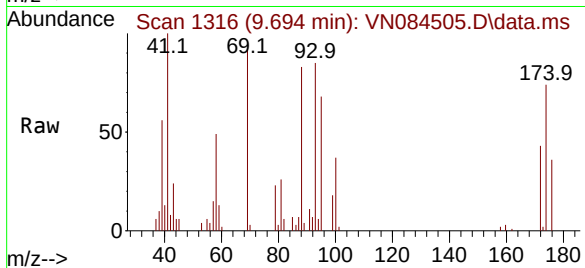
58 71.6 59.7 89.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#46

Methyl methacrylate

Concen: 17.222 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

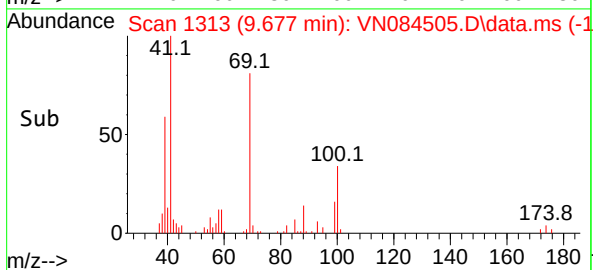
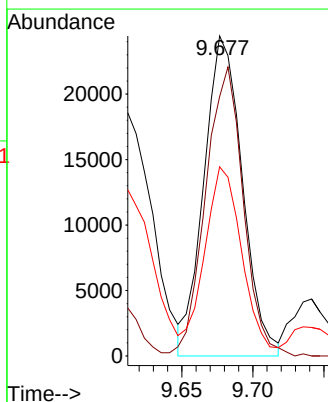
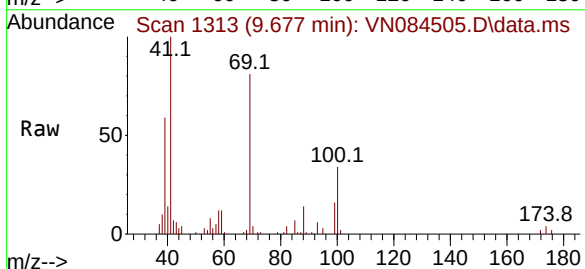
Tgt Ion: 41 Resp: 46112

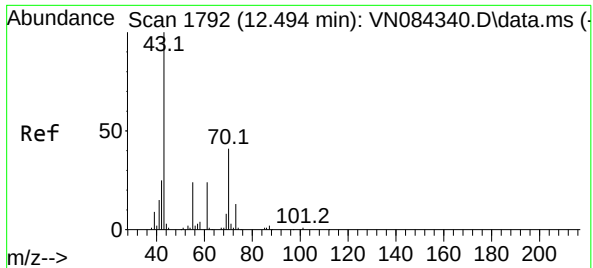
Ion Ratio Lower Upper

41 100

69 81.7 42.6 128.0

39 58.9 27.5 82.4





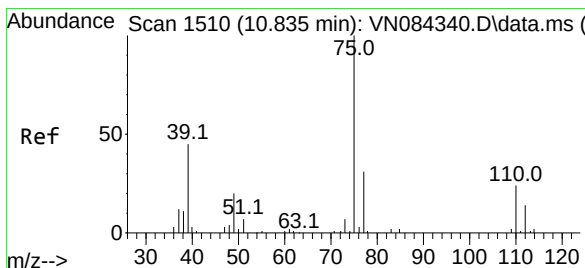
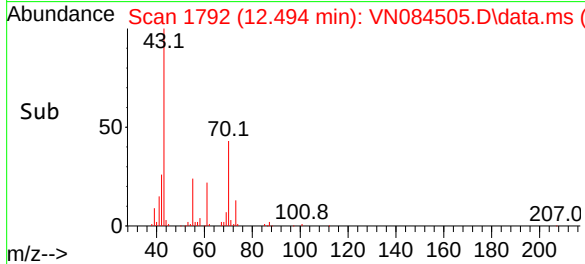
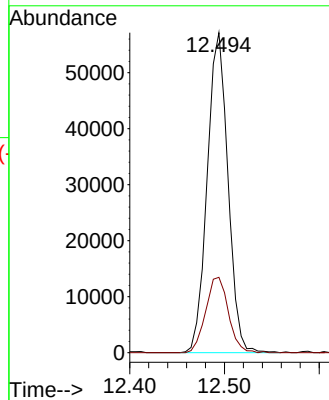
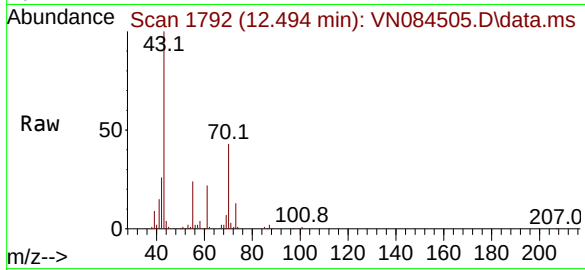
#47
n-amy1 Acetate
Concen: 17.612 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion: 43 Resp: 8681
Ion Ratio Lower Upper
43 100
55 25.8 20.6 31.0

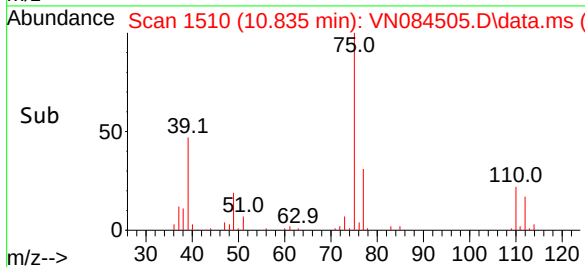
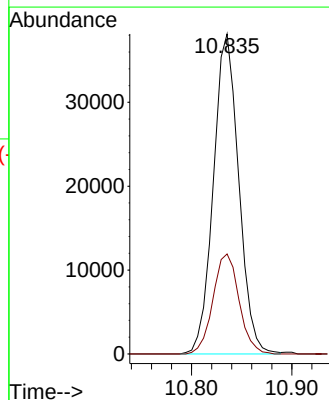
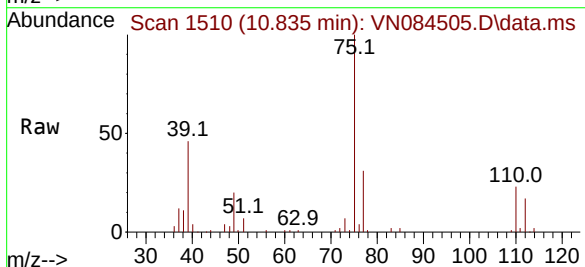
Manual Integrations
APPROVED

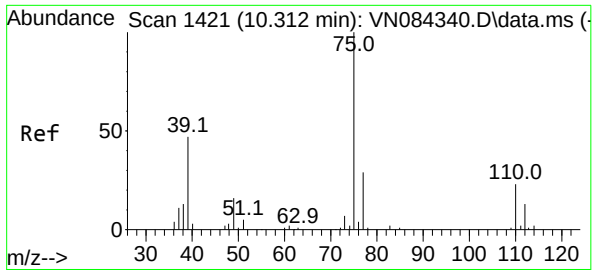
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#48
t-1,3-Dichloropropene
Concen: 17.755 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

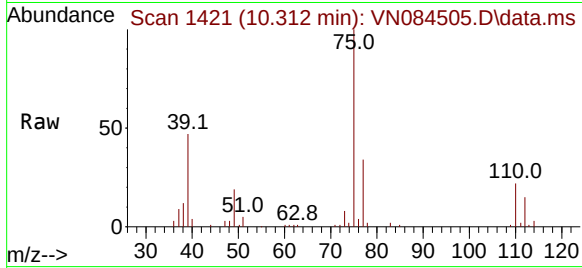
Tgt Ion: 75 Resp: 67004
Ion Ratio Lower Upper
75 100
77 31.3 24.6 37.0





#49
cis-1,3-Dichloropropene
Concen: 18.112 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

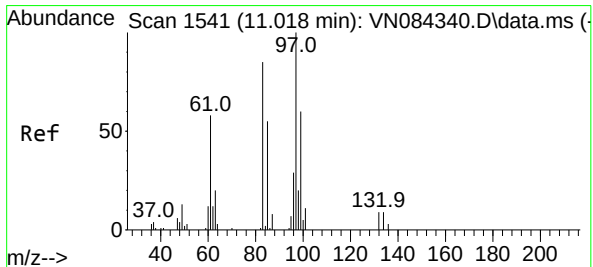
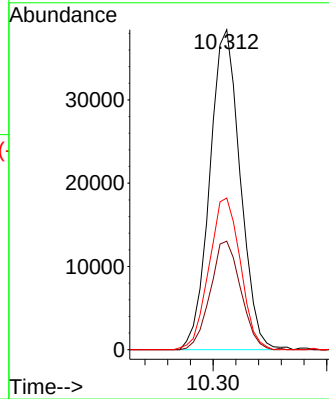
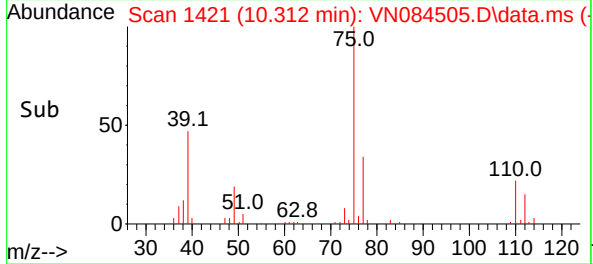
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 75 Resp: 71632
Ion Ratio Lower Upper
75 100
77 33.9 22.9 34.3
39 47.4 37.4 56.2

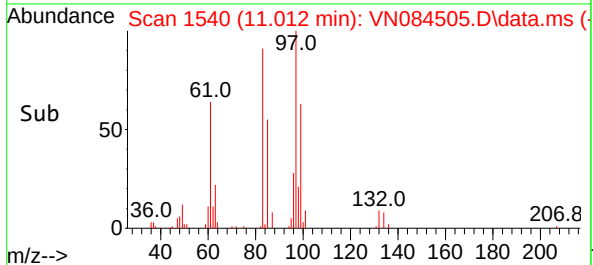
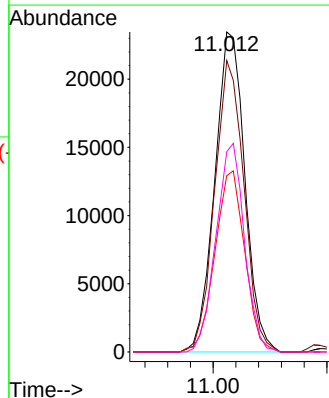
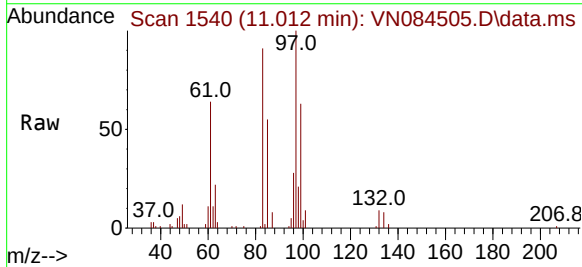
Manual Integrations
APPROVED

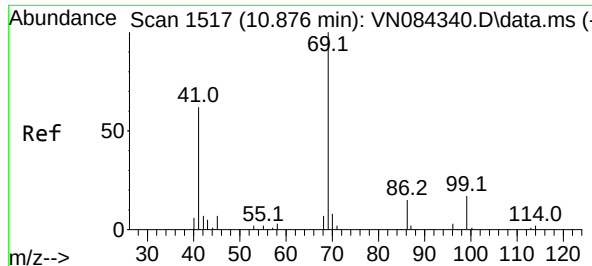
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#50
1,1,2-Trichloroethane
Concen: 18.654 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

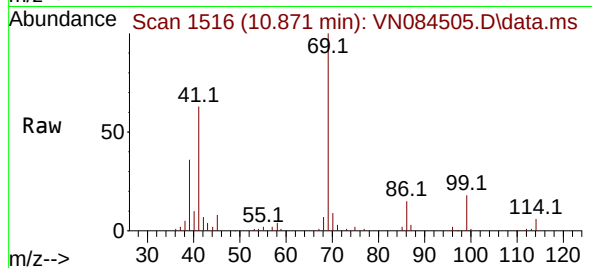
Tgt Ion: 97 Resp: 43132
Ion Ratio Lower Upper
97 100
83 91.1 67.8 101.8
85 55.1 44.2 66.2
99 62.6 47.8 71.8





#51
Ethyl methacrylate
Concen: 17.595 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

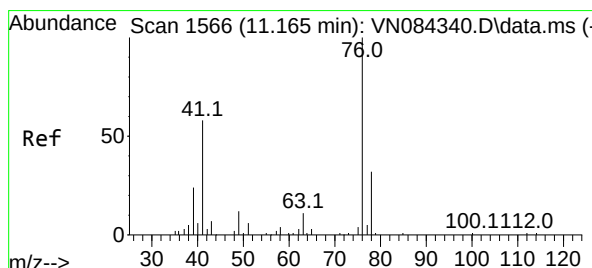
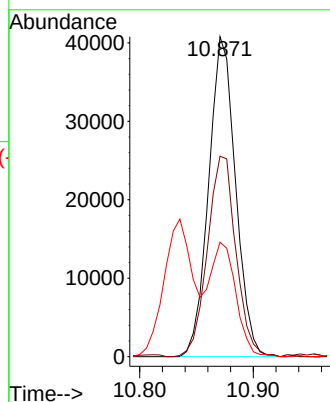
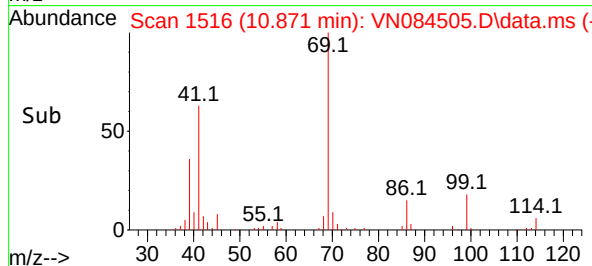
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 69 Resp: 67198
Ion Ratio Lower Upper
69 100
41 62.6 30.9 92.7
39 35.8 16.6 49.7

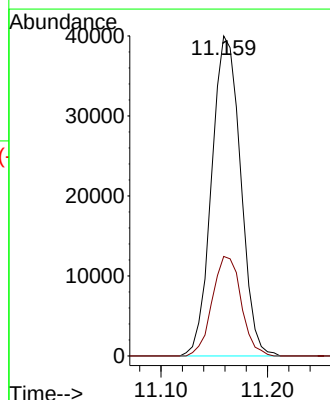
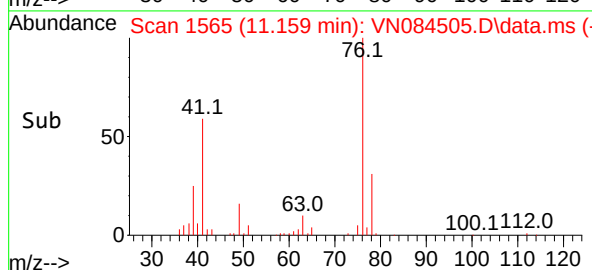
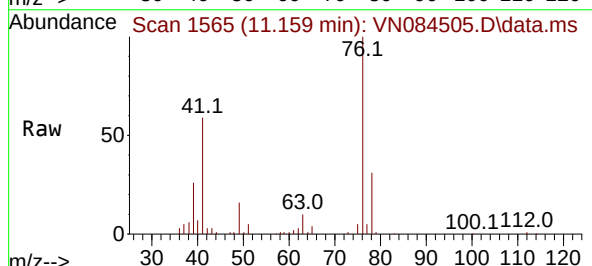
Manual Integrations
APPROVED

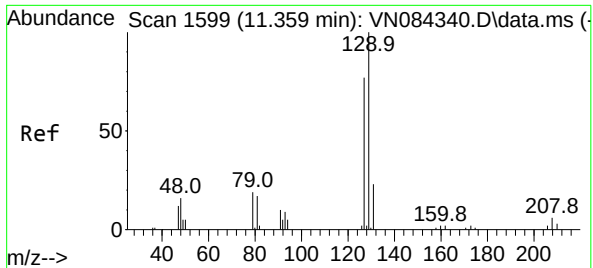
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#52
1,3-Dichloropropane
Concen: 18.688 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

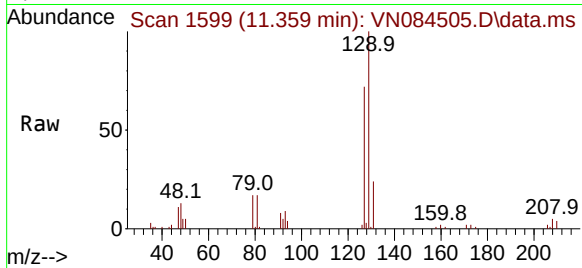
Tgt Ion: 76 Resp: 75556
Ion Ratio Lower Upper
76 100
78 31.0 0.0 64.2





#53
Dibromochloromethane
Concen: 18.898 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

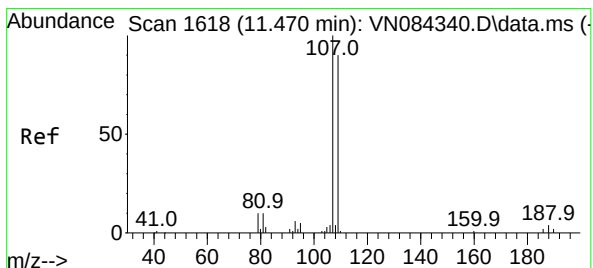
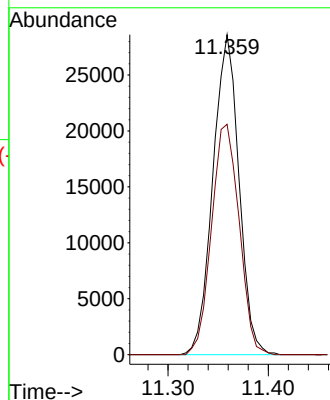
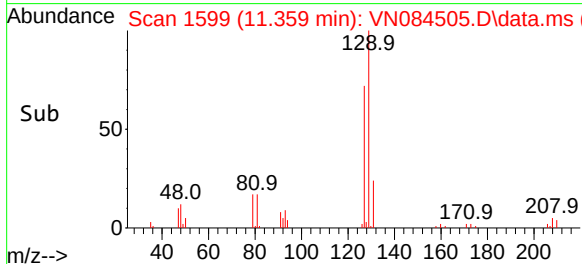
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion:129 Resp: 51619
Ion Ratio Lower Upper
129 100
127 76.2 38.5 115.5

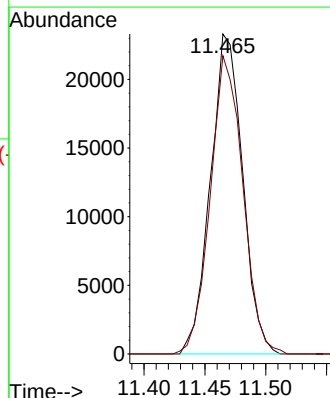
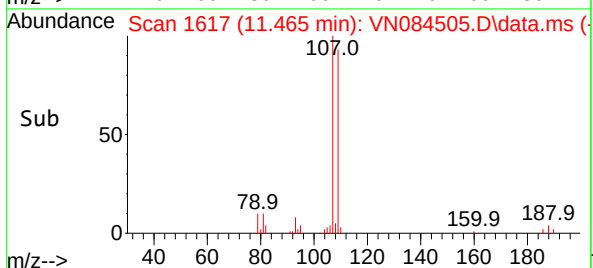
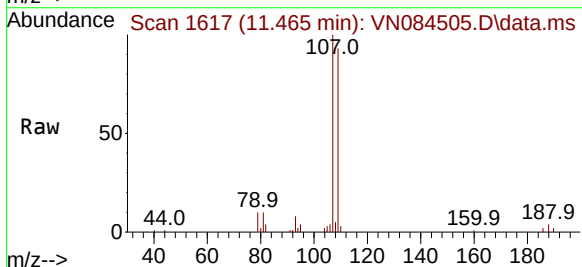
Manual Integrations
APPROVED

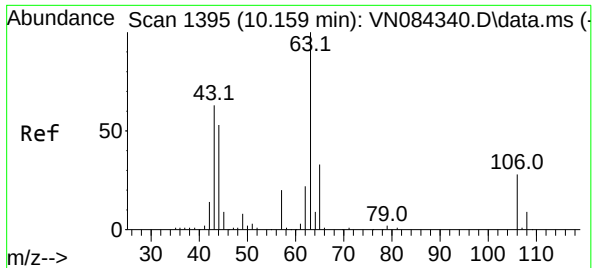
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#54
1,2-Dibromoethane
Concen: 17.984 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

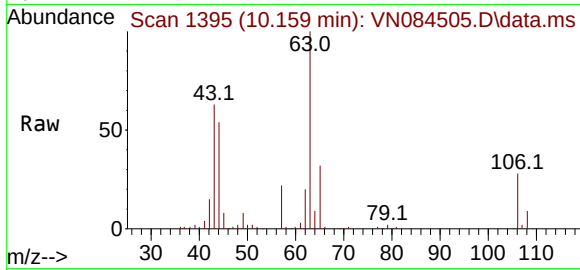
Tgt Ion:107 Resp: 42803
Ion Ratio Lower Upper
107 100
109 94.2 73.8 110.6





#55
2-Chloroethyl vinyl ether
Concen: 88.521 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

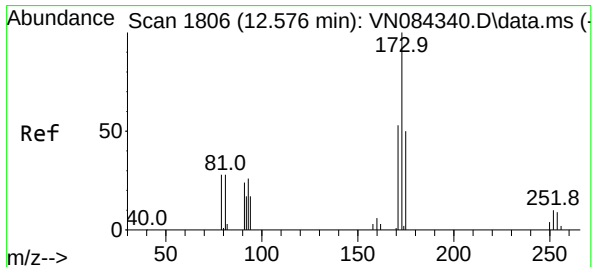
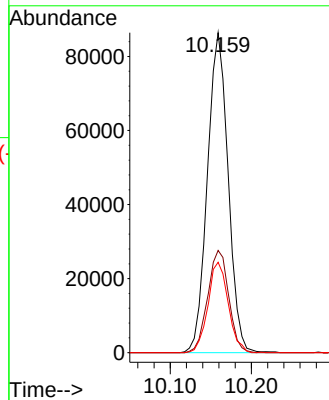
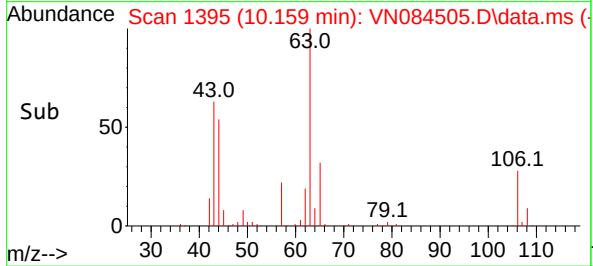
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 63 Resp: 153339
Ion Ratio Lower Upper
63 100
65 32.3 25.6 38.4
106 27.7 21.6 32.4

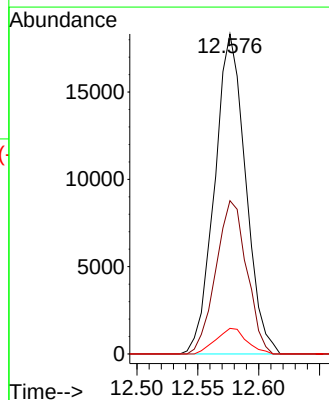
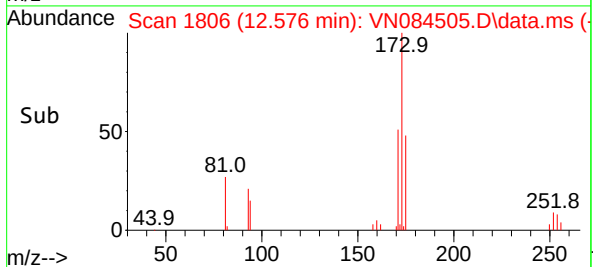
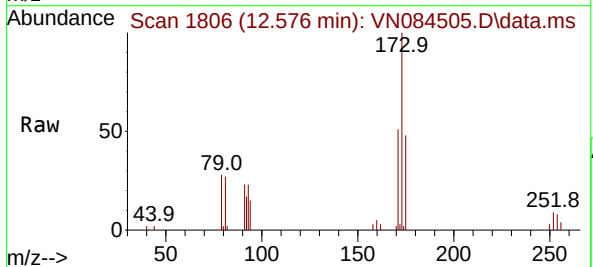
Manual Integrations
APPROVED

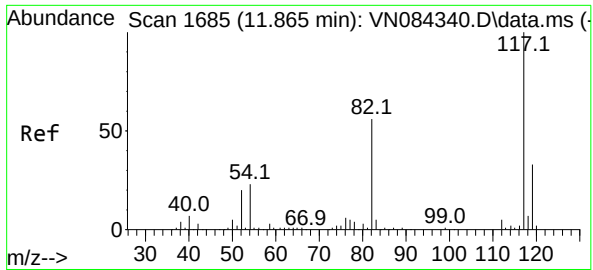
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#56
Bromoform
Concen: 17.883 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

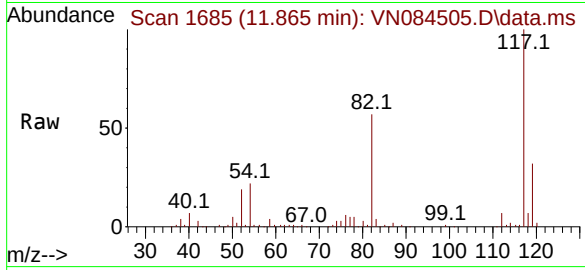
Tgt Ion:173 Resp: 32397
Ion Ratio Lower Upper
173 100
175 47.7 39.4 59.2
254 7.9 6.8 10.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

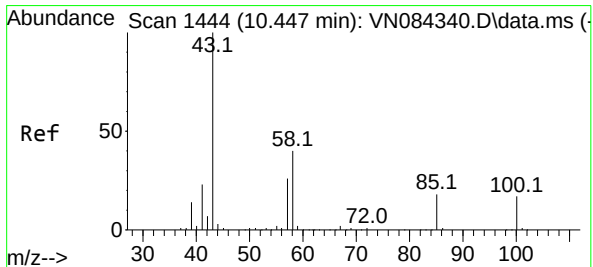
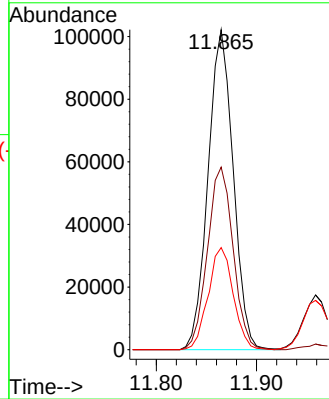
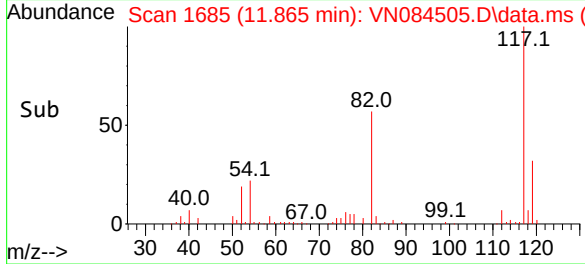
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 117 Resp: 17848
Ion Ratio Lower Upper
117 100
82 58.2 46.2 69.4
119 31.8 25.4 38.2

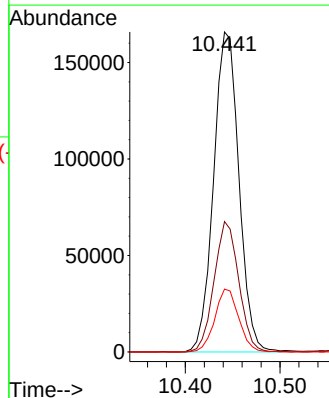
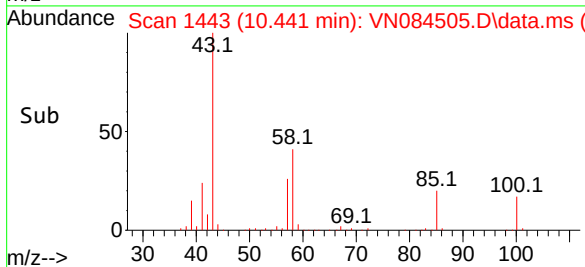
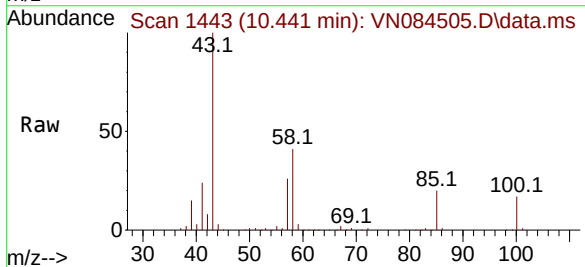
Manual Integrations
APPROVED

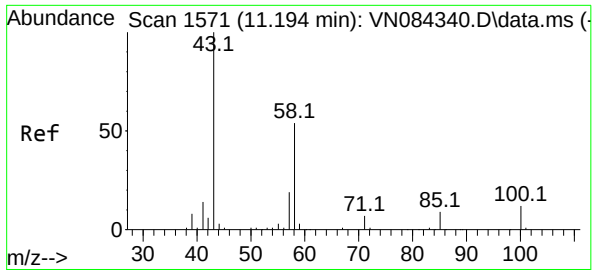
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#58
4-Methyl-2-Pentanone
Concen: 92.625 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

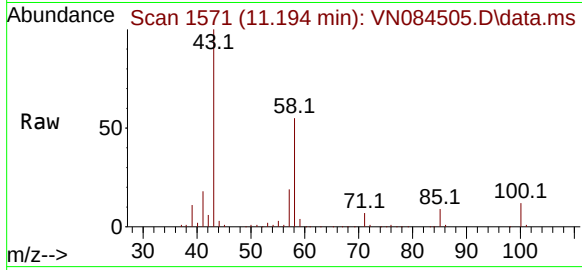
Tgt Ion: 43 Resp: 307964
Ion Ratio Lower Upper
43 100
58 39.6 31.9 47.9
85 18.6 14.6 22.0





#59
2-Hexanone
Concen: 94.363 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

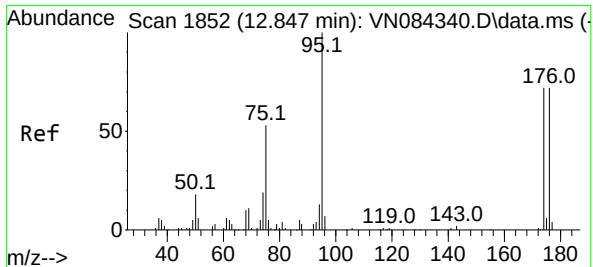
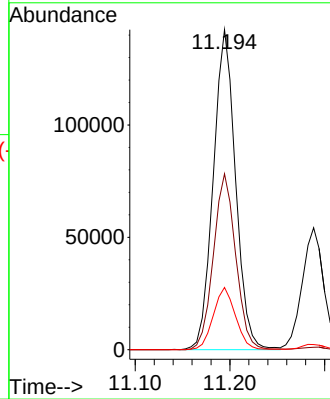
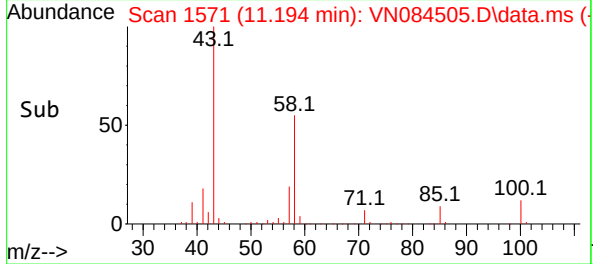
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 43 Resp: 23313
Ion Ratio Lower Upper
43 100
58 55.0 44.0 66.0
57 19.4 15.4 23.2

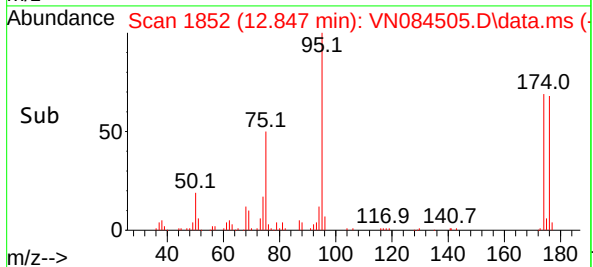
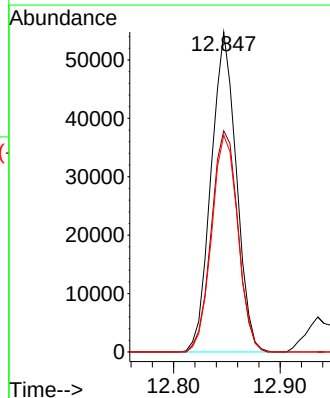
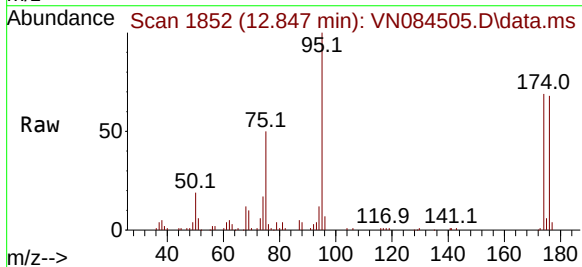
Manual Integrations
APPROVED

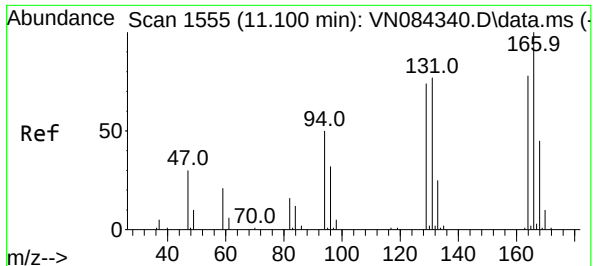
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#60
4-Bromofluorobenzene
Concen: 30.625 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

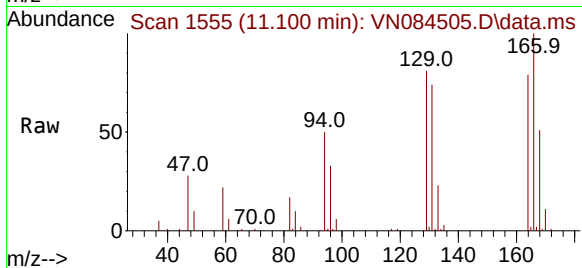
Tgt Ion: 95 Resp: 90213
Ion Ratio Lower Upper
95 100
174 72.8 58.2 87.2
176 70.3 56.4 84.6





#61
Tetrachloroethene
Concen: 19.296 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

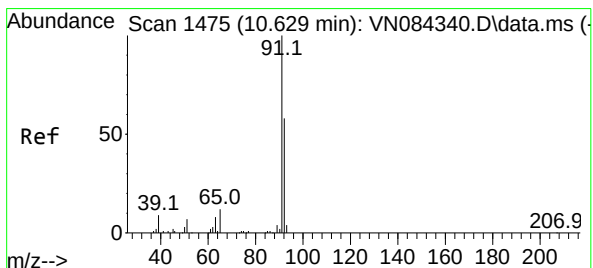
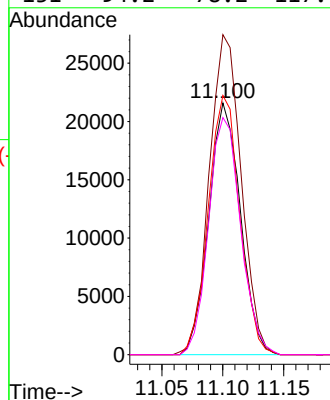
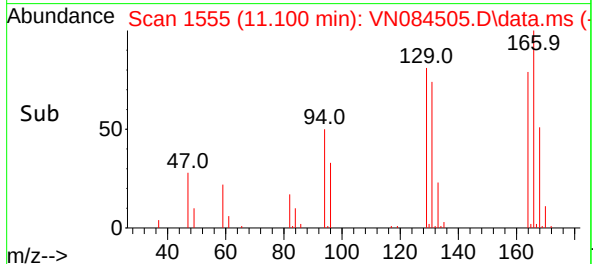
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



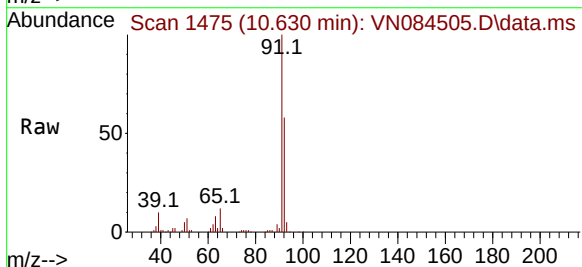
Tgt Ion:164 Resp: 38950
Ion Ratio Lower Upper
164 100
166 127.1 102.5 153.7
129 103.0 75.7 113.5
131 94.2 78.2 117.4

Manual Integrations
APPROVED

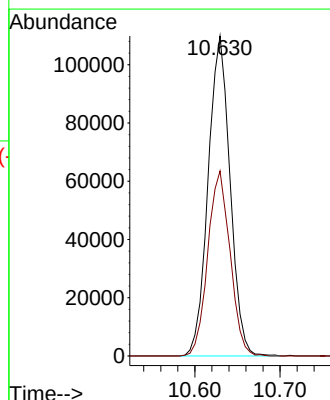
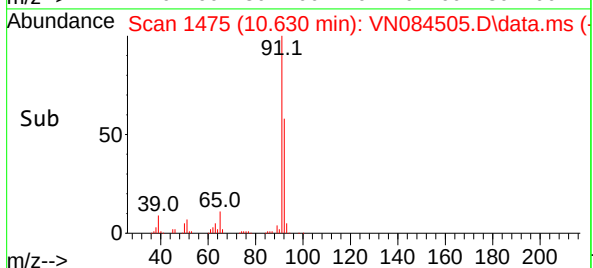
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

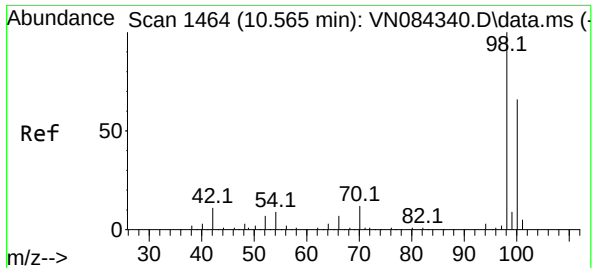


#62
Toluene
Concen: 18.818 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40



Tgt Ion: 91 Resp: 196630
Ion Ratio Lower Upper
91 100
92 58.5 47.2 70.8





#63

Toluene-d8

Concen: 29.883 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion: 98 Resp: 24708

Ion Ratio Lower Upper

98 100

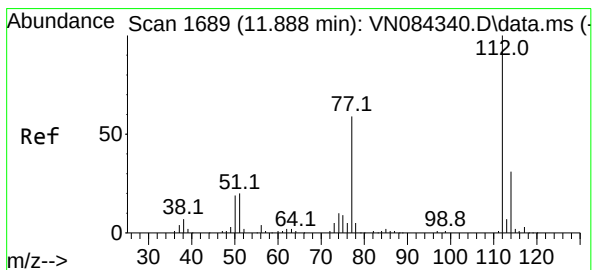
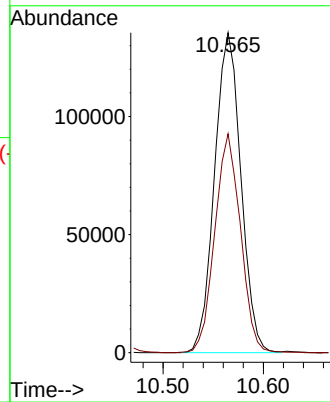
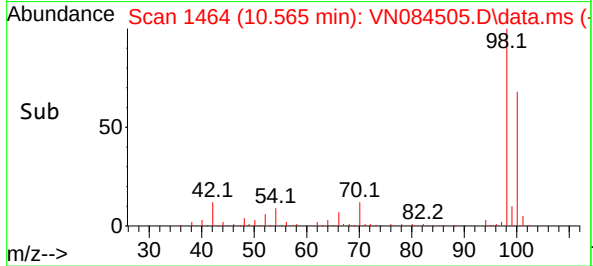
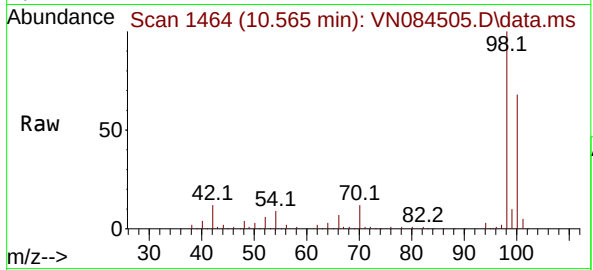
100 66.6 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#64

Chlorobenzene

Concen: 18.545 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084505.D

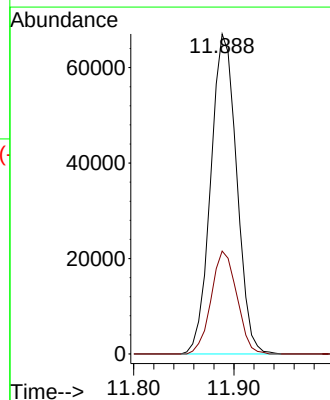
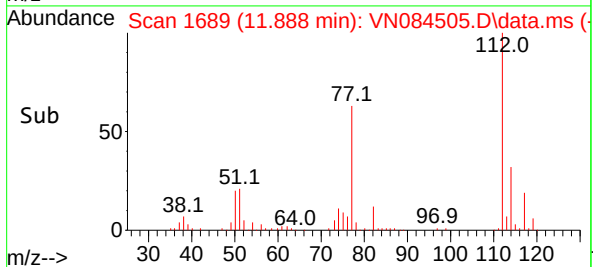
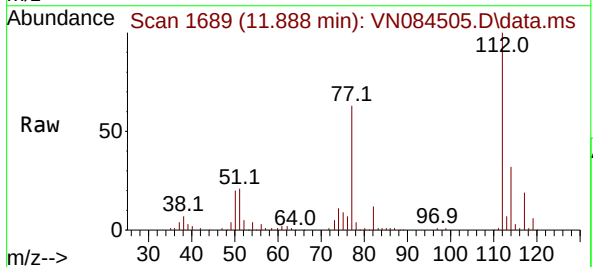
Acq: 25 Oct 2024 10:40

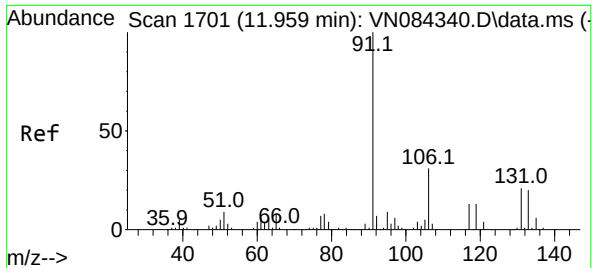
Tgt Ion:112 Resp: 120580

Ion Ratio Lower Upper

112 100

114 32.1 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 19.294 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion:131 Resp: 43584

Ion Ratio Lower Upper

131 100

133 91.4 0.0 190.4

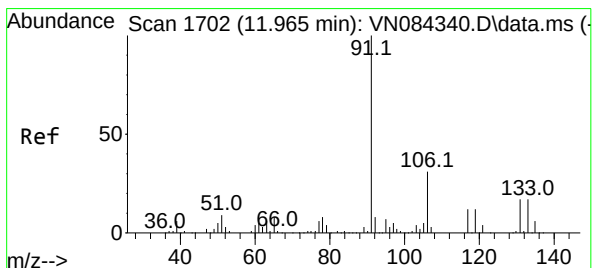
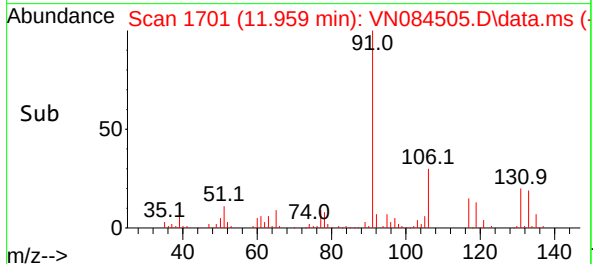
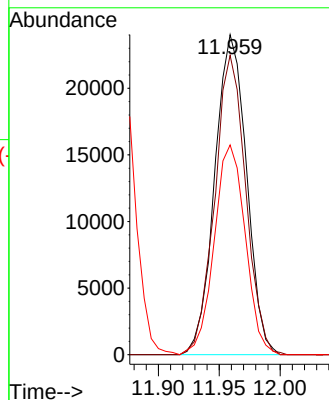
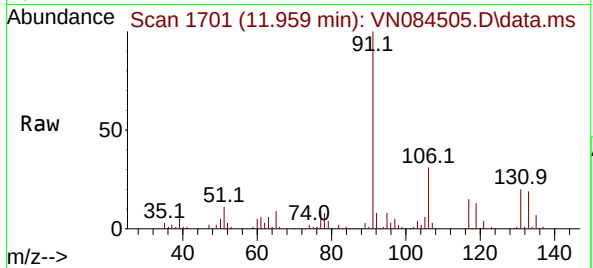
119 64.1 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#66

Ethyl Benzene

Concen: 18.569 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN084505.D

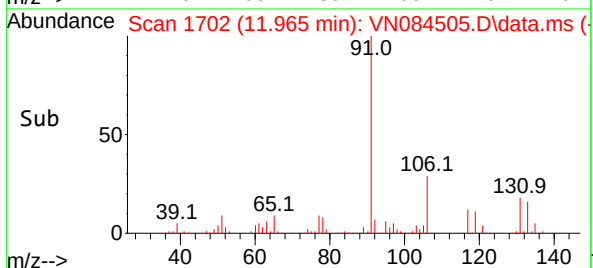
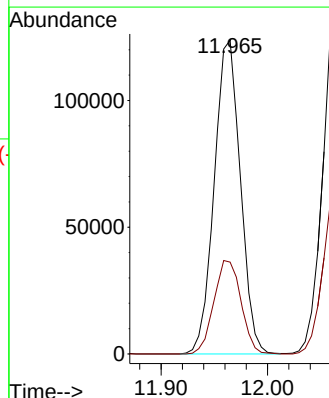
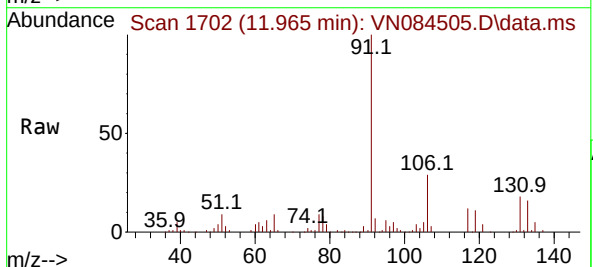
Acq: 25 Oct 2024 10:40

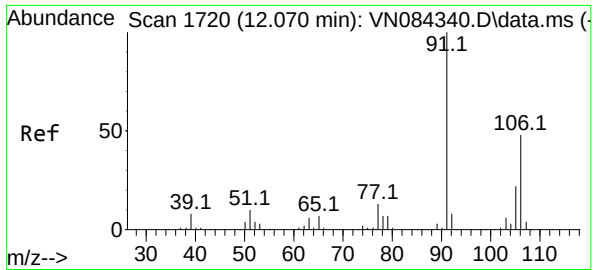
Tgt Ion: 91 Resp: 210798

Ion Ratio Lower Upper

91 100

106 29.3 25.2 37.8





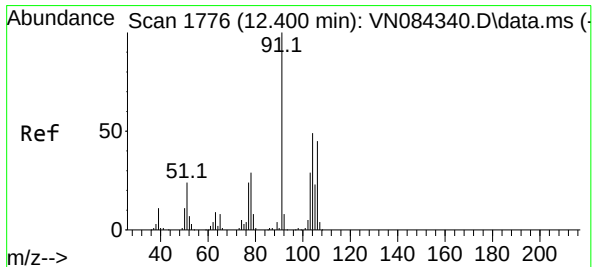
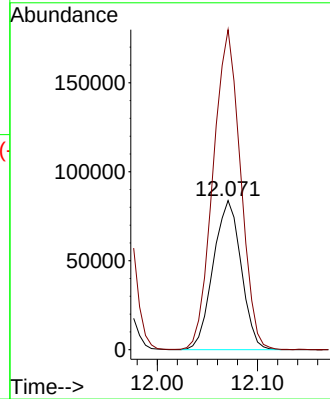
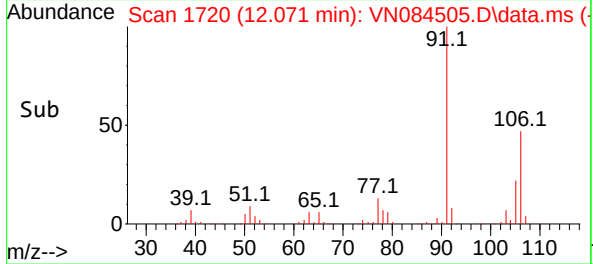
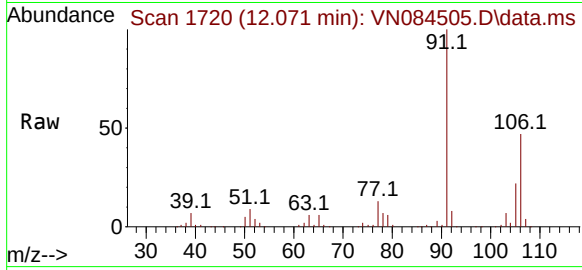
#67
m/p-Xylenes
Concen: 37.626 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion:106 Resp: 16203
Ion Ratio Lower Upper
106 100
91 210.7 166.7 250.1

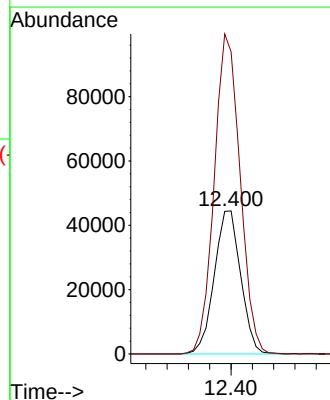
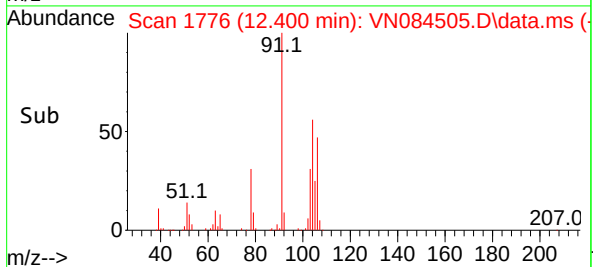
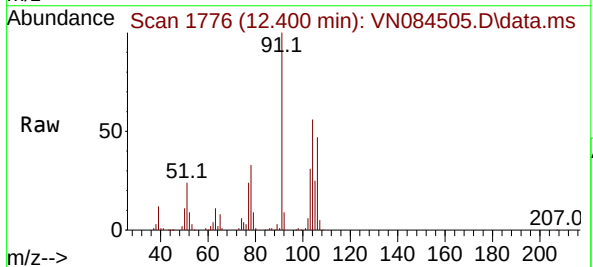
Manual Integrations
APPROVED

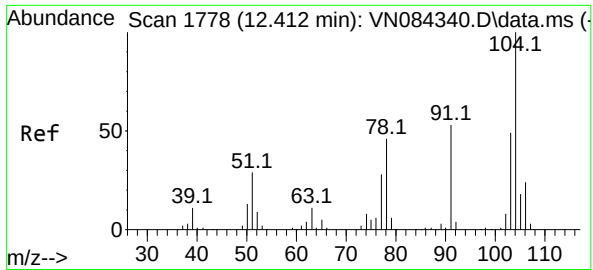
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#68
o-Xylene
Concen: 18.426 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion:106 Resp: 76484
Ion Ratio Lower Upper
106 100
91 219.4 110.9 332.9





#69

Styrene

Concen: 18.768 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion:104 Resp: 133738

Ion Ratio Lower Upper

104 100

78 50.8 41.6 62.4

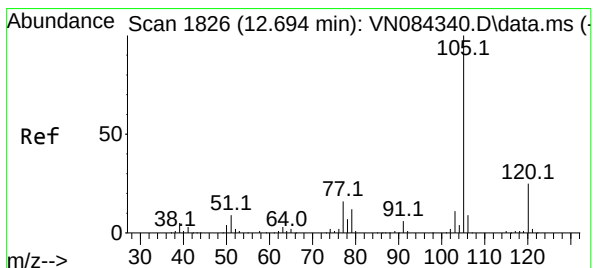
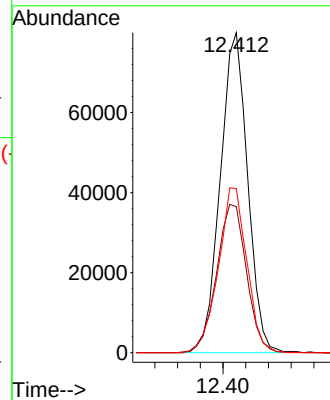
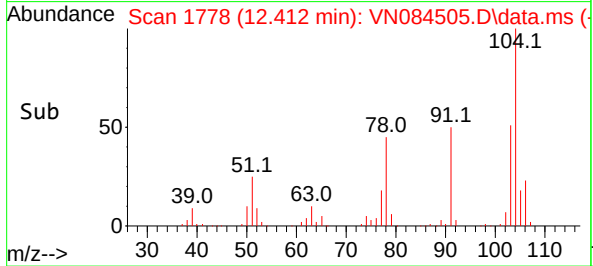
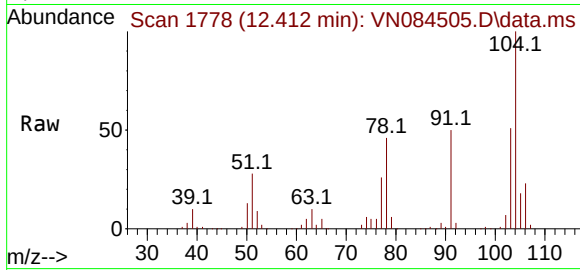
103 53.9 44.4 66.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#70

Isopropylbenzene

Concen: 18.952 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084505.D

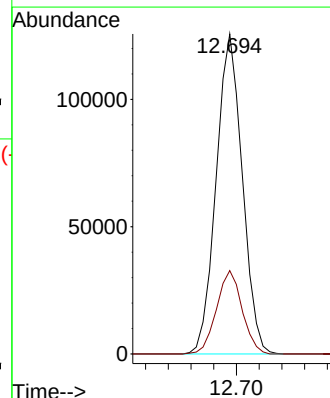
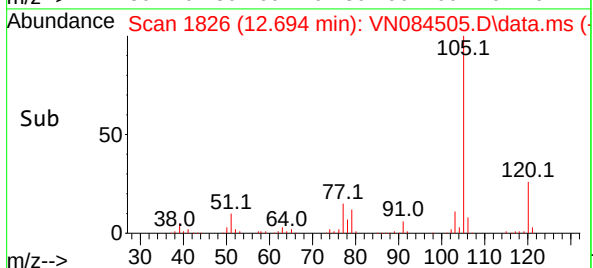
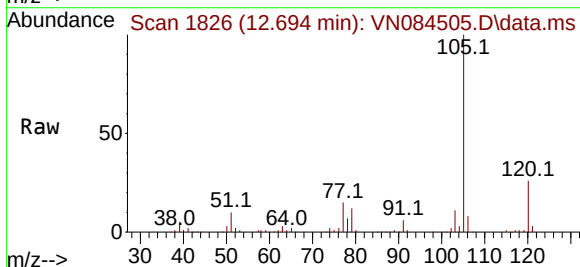
Acq: 25 Oct 2024 10:40

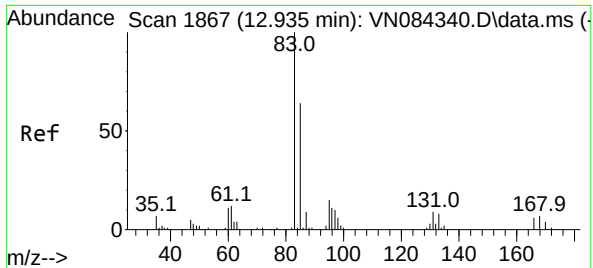
Tgt Ion:105 Resp: 200837

Ion Ratio Lower Upper

105 100

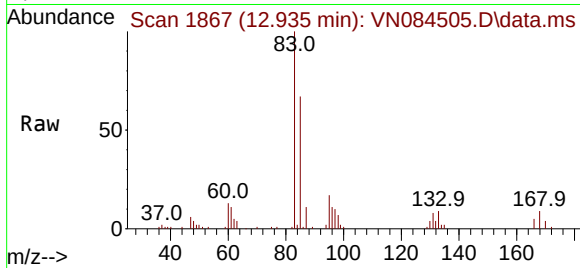
120 25.5 17.4 32.4





#71
1,1,2,2-Tetrachloroethane
Concen: 18.874 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

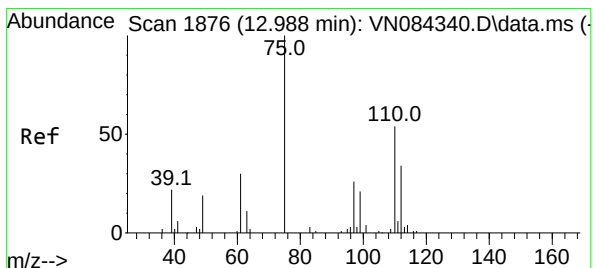
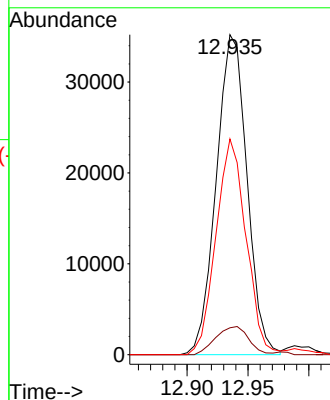
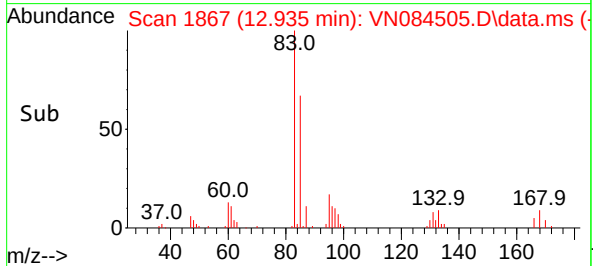
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 83 Resp: 6187
Ion Ratio Lower Upper
83 100
131 9.5 5.1 15.3
85 65.8 32.0 96.2

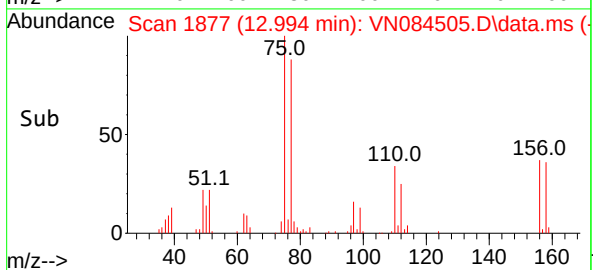
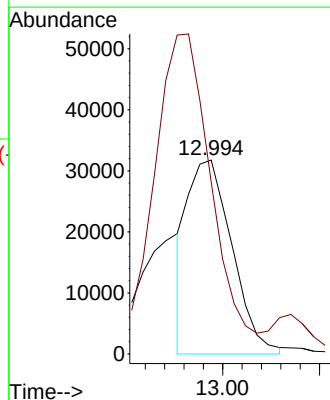
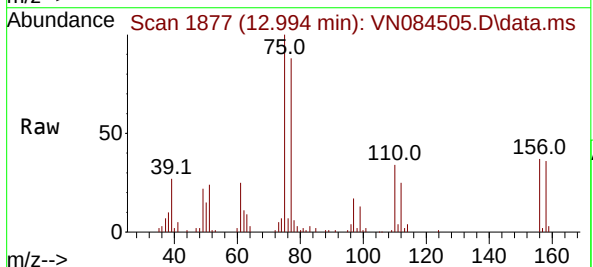
Manual Integrations
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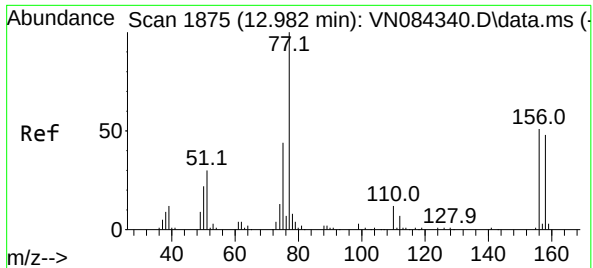
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#72
1,2,3-Trichloropropane
Concen: 18.029 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

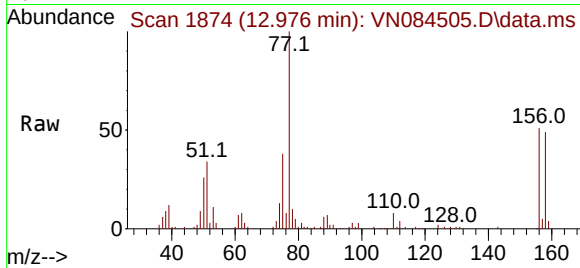
Tgt Ion: 75 Resp: 50617
Ion Ratio Lower Upper
75 100
77 214.0 0.0 414.0





#73
Bromobenzene
Concen: 19.075 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

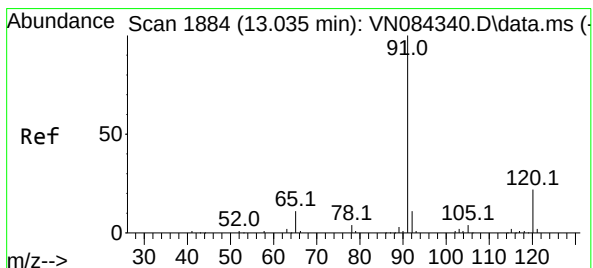
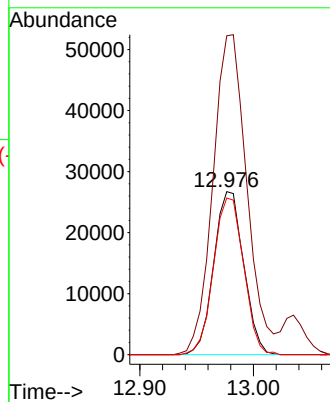
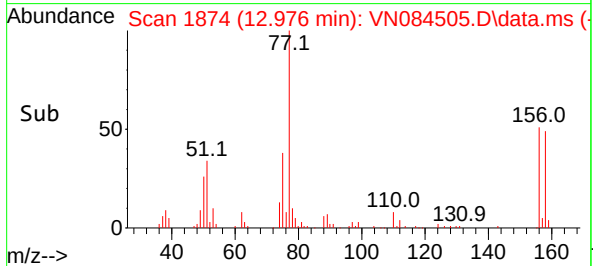
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion:156 Resp: 4895
Ion Ratio Lower Upper
156 100
77 221.3 0.0 451.0
158 96.7 0.0 194.6

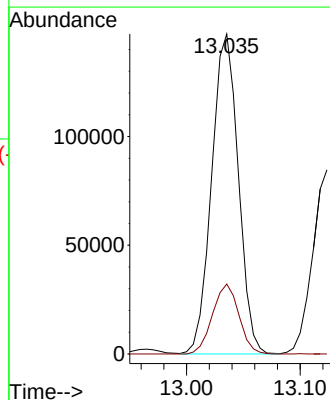
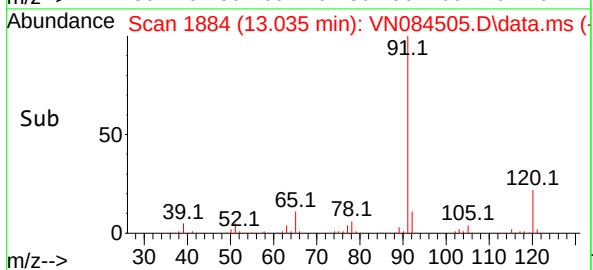
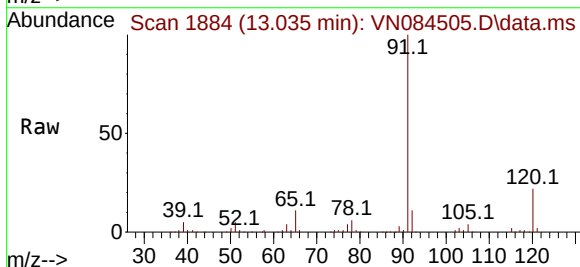
Manual Integrations
APPROVED

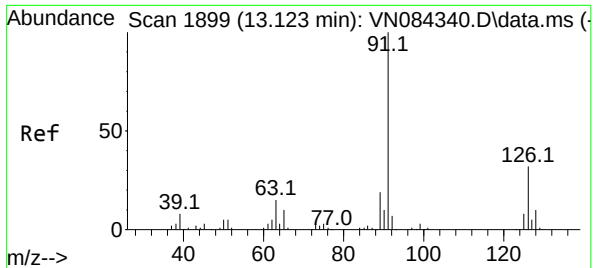
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#74
n-propylbenzene
Concen: 19.004 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion: 91 Resp: 239983
Ion Ratio Lower Upper
91 100
120 21.6 0.0 43.2





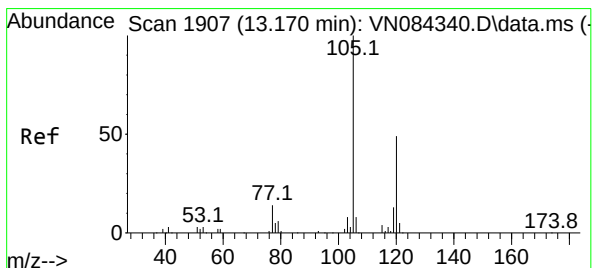
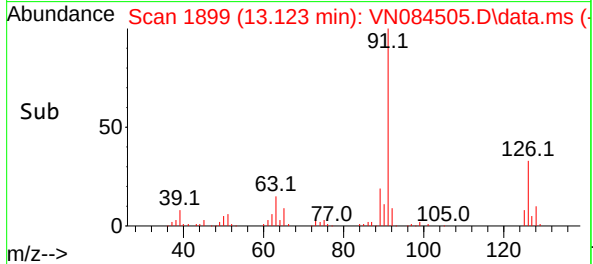
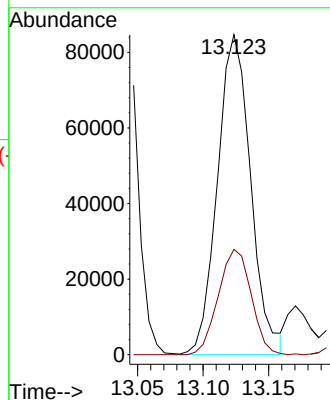
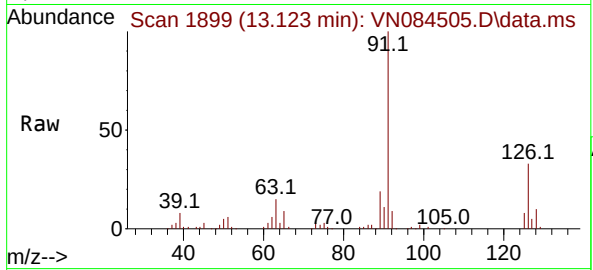
#75
2-Chlorotoluene
Concen: 19.035 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion: 91 Resp: 149369
Ion Ratio Lower Upper
91 100
126 32.4 0.0 64.0

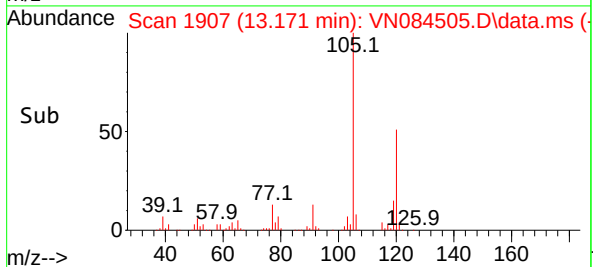
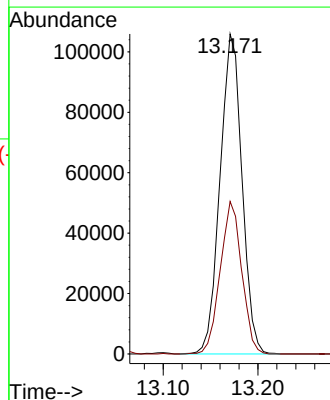
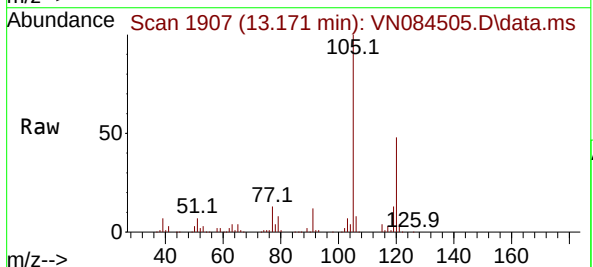
Manual Integrations
APPROVED

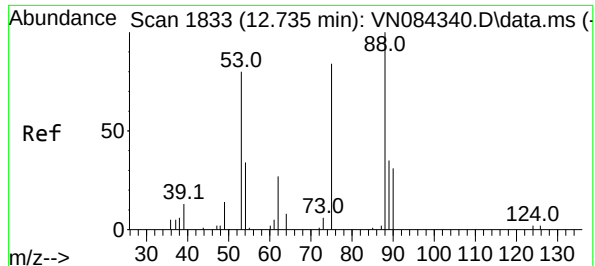
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#76
1,3,5-Trimethylbenzene
Concen: 19.133 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

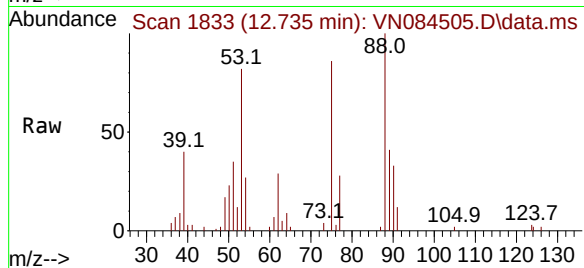
Tgt Ion:105 Resp: 170711
Ion Ratio Lower Upper
105 100
120 46.7 0.0 94.4





#77
t-1,4-Dichloro-2-butene
Concen: 17.960 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

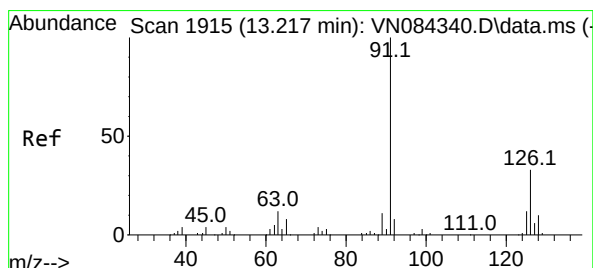
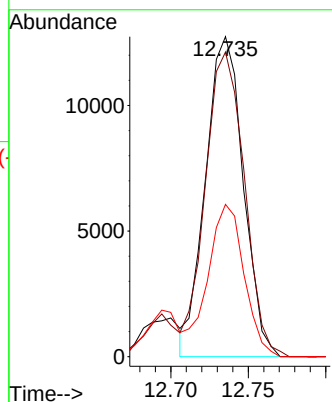
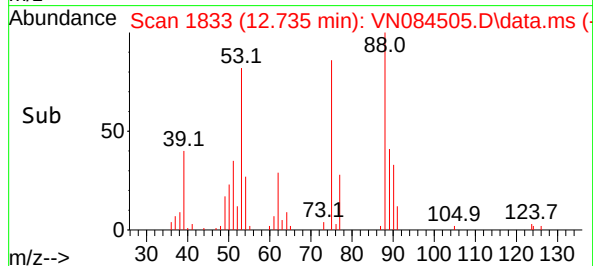
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion: 75 Resp: 2154
Ion Ratio Lower Upper
75 100
53 93.5 47.3 142.0
89 47.6 22.9 68.8

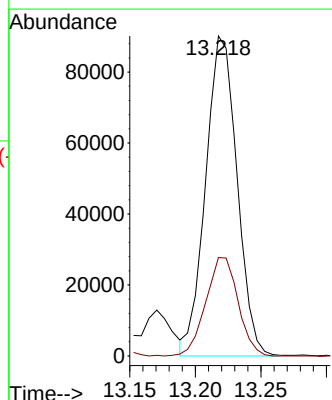
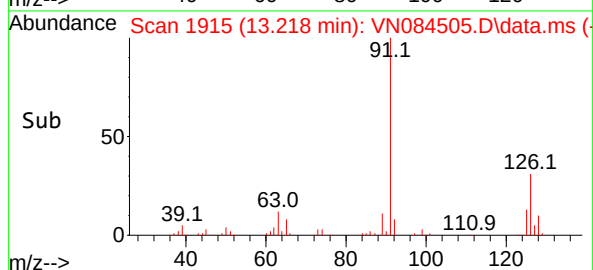
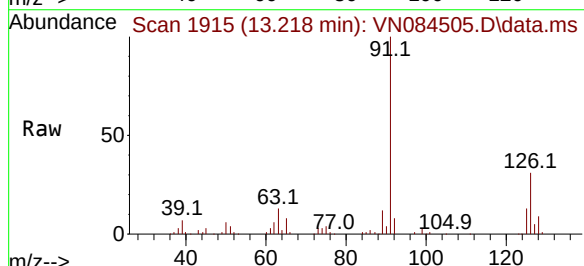
Manual Integrations
APPROVED

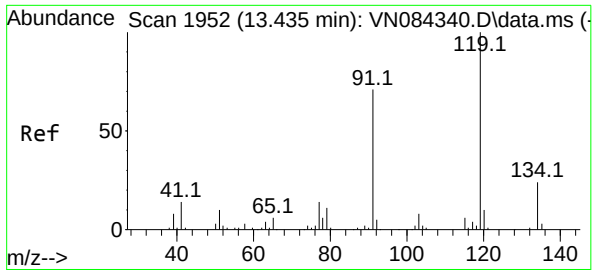
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#78
4-Chlorotoluene
Concen: 18.839 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

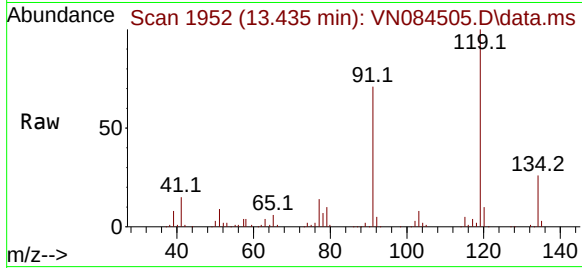
Tgt Ion: 91 Resp: 150297
Ion Ratio Lower Upper
91 100
126 31.6 0.0 62.4





#79
tert-butylbenzene
Concen: 19.156 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

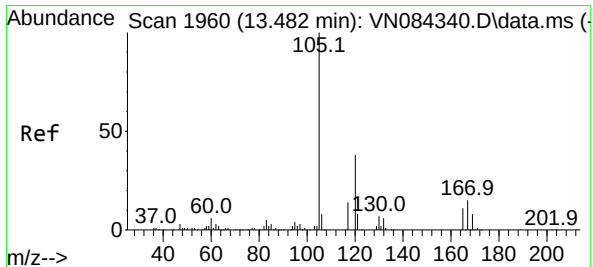
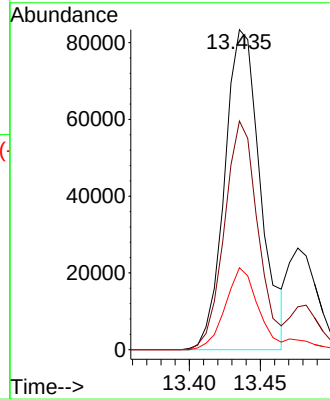
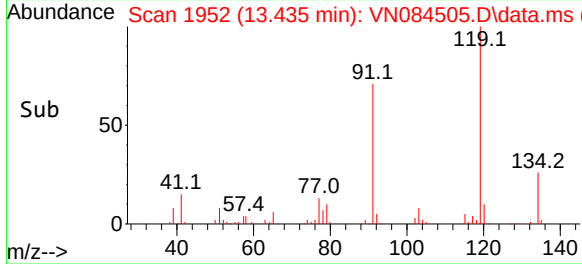
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



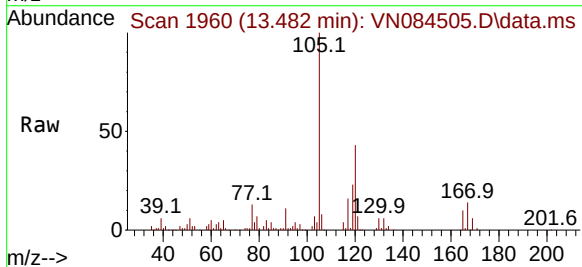
Tgt Ion:119 Resp: 145820
Ion Ratio Lower Upper
119 100
91 67.2 0.0 138.0
134 23.4 0.0 48.8

Manual Integrations
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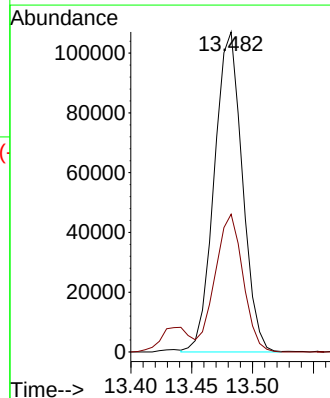
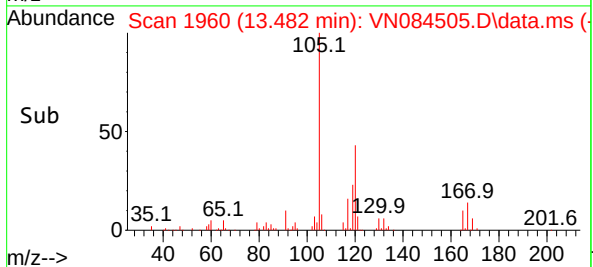
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

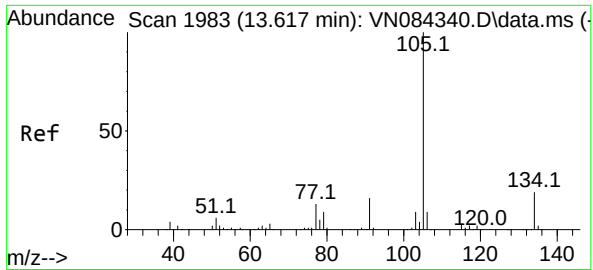


#80
1,2,4-Trimethylbenzene
Concen: 18.972 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40



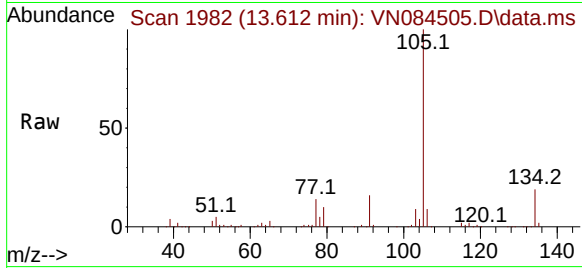
Tgt Ion:105 Resp: 171754
Ion Ratio Lower Upper
105 100
120 42.8 0.0 88.8





#81
 sec-Butylbenzene
 Concen: 18.971 ug/l
 RT: 13.612 min Scan# 1983
 Delta R.T. -0.006 min
 Lab File: VN084505.D
 Acq: 25 Oct 2024 10:40

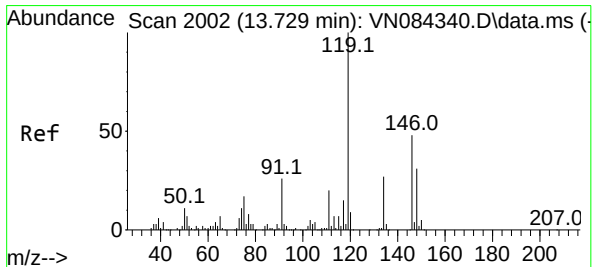
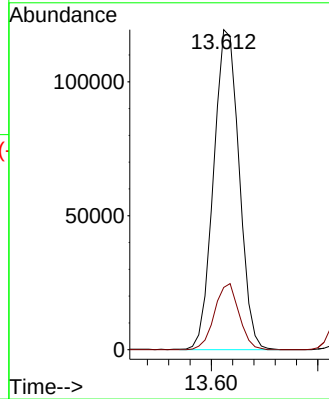
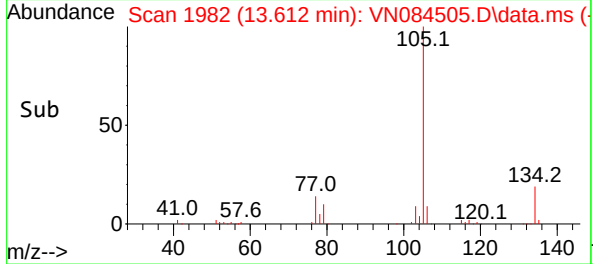
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBS01



Tgt Ion:105 Resp: 19881
 Ion Ratio Lower Upper
 105 100
 134 19.8 0.0 38.0

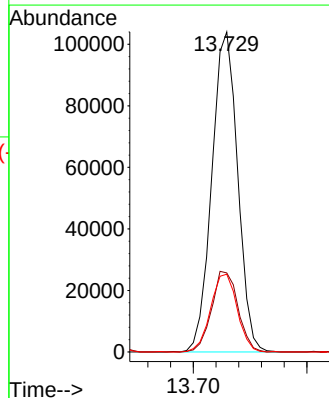
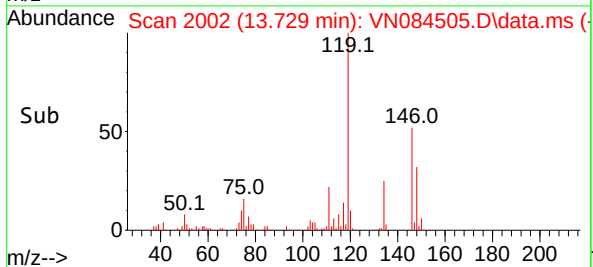
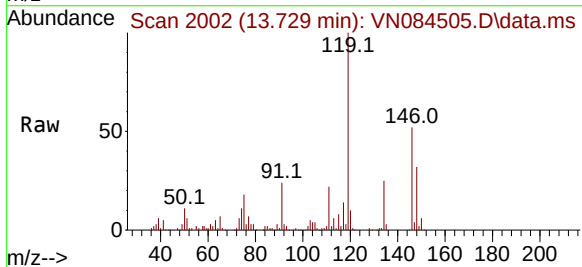
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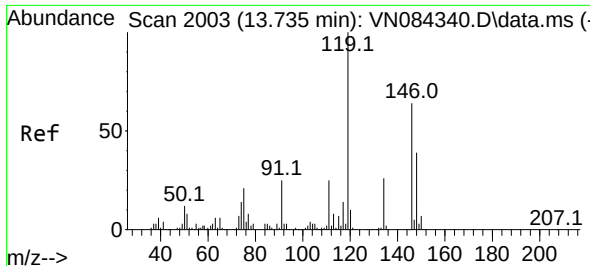
Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024



#82
 p-Isopropyltoluene
 Concen: 18.632 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN084505.D
 Acq: 25 Oct 2024 10:40

Tgt Ion:119 Resp: 164354
 Ion Ratio Lower Upper
 119 100
 134 25.7 0.0 50.2
 91 24.9 0.0 50.6





#83

1,3-Dichlorobenzene

Concen: 19.067 ug/l

RT: 13.729 min Scan# 2003

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion:146 Resp: 90980

Ion Ratio Lower Upper

146 100

111 42.6 20.6 61.9

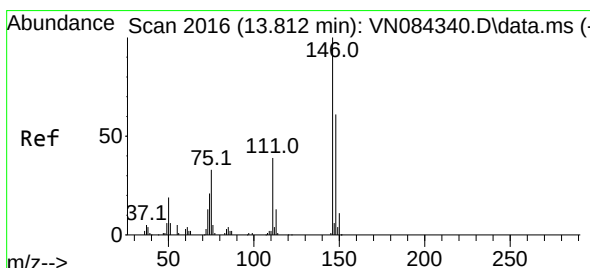
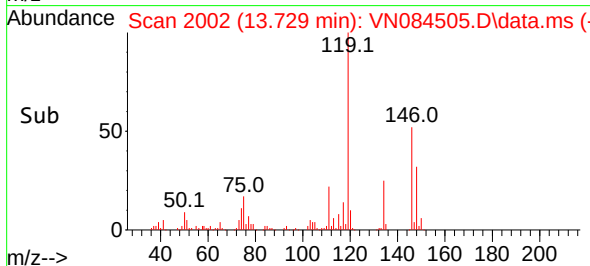
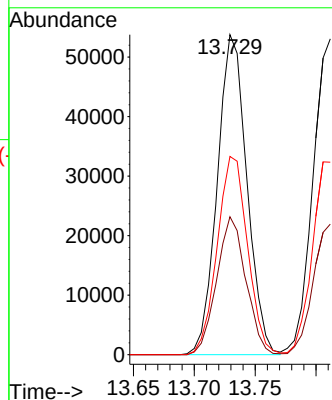
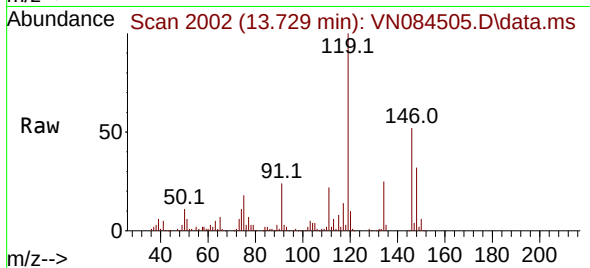
148 63.5 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#84

1,4-Dichlorobenzene

Concen: 18.896 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

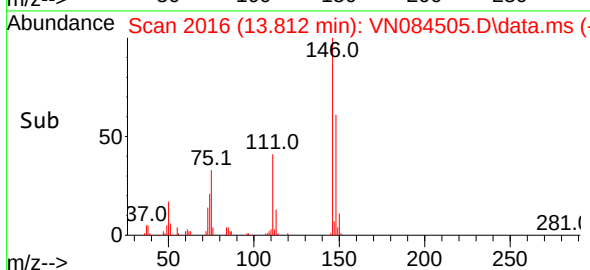
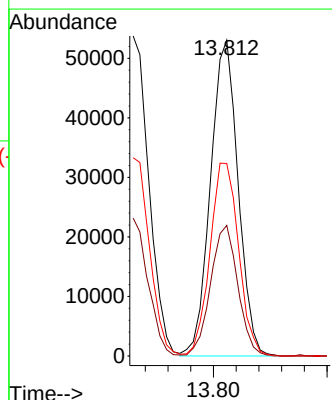
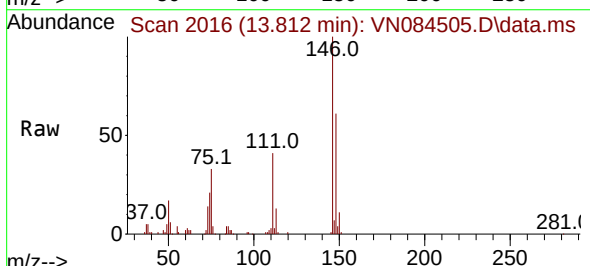
Tgt Ion:146 Resp: 89542

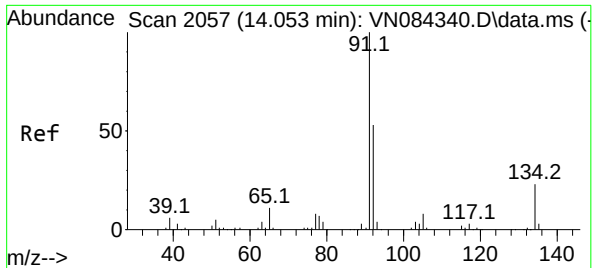
Ion Ratio Lower Upper

146 100

111 40.9 20.5 61.5

148 63.3 32.5 97.4





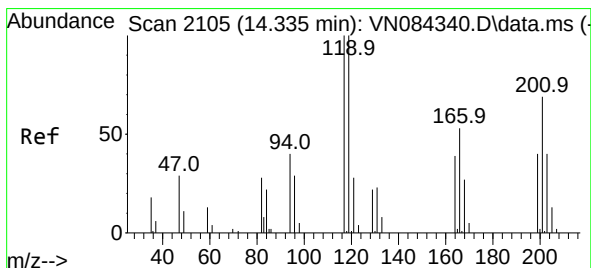
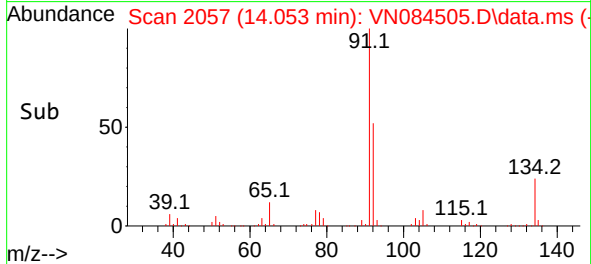
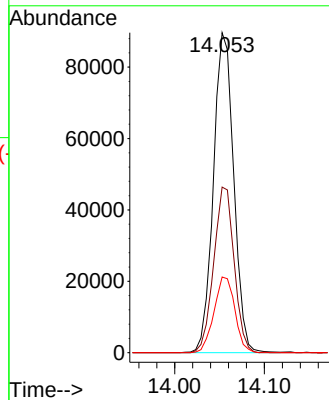
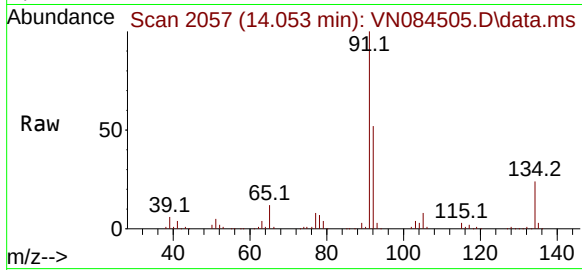
#85
n-Butylbenzene
Concen: 18.444 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01

Tgt Ion: 91 Resp: 140914
Ion Ratio Lower Upper
91 100
92 52.0 0.0 103.4
134 24.3 0.0 48.0

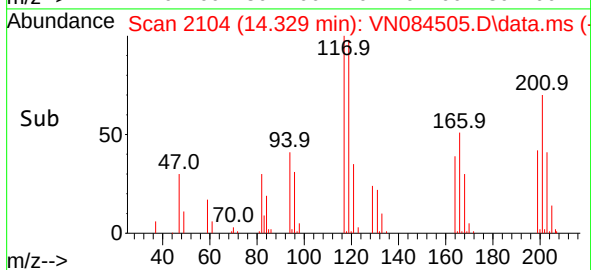
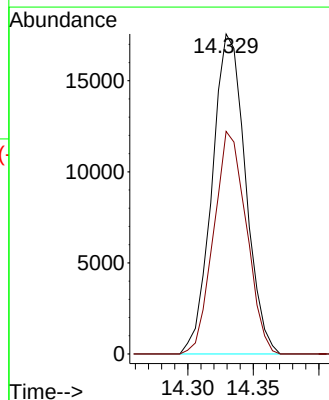
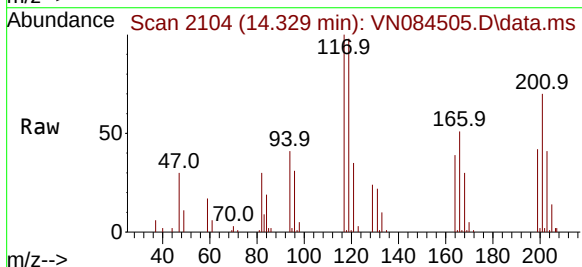
Manual Integrations
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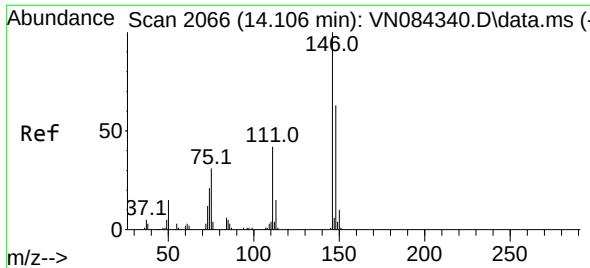
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#86
Hexachloroethane
Concen: 18.323 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion:117 Resp: 31139
Ion Ratio Lower Upper
117 100
201 68.0 33.9 101.6





#87

1,2-Dichlorobenzene

Concen: 19.055 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBS01

Tgt Ion:146 Resp: 87910

Ion Ratio Lower Upper

146 100

111 42.9 21.9 65.5

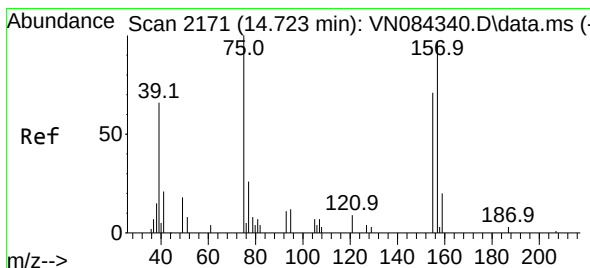
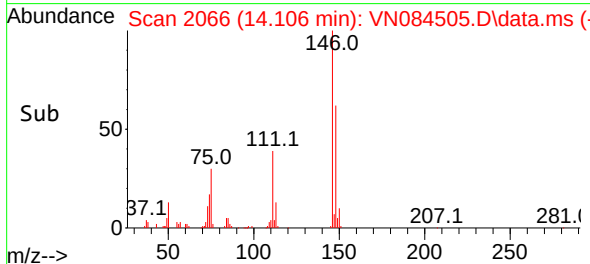
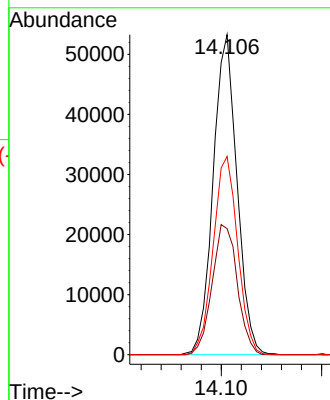
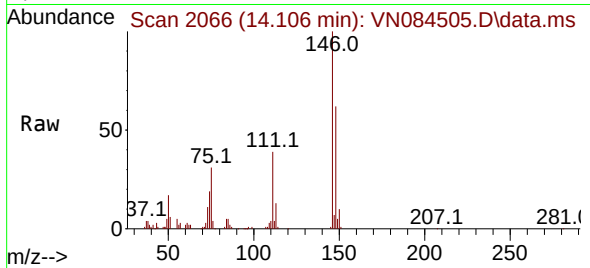
148 63.5 31.1 93.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.150 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

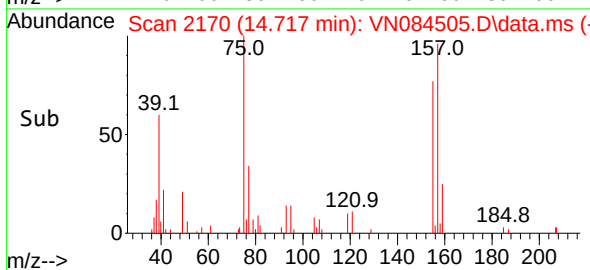
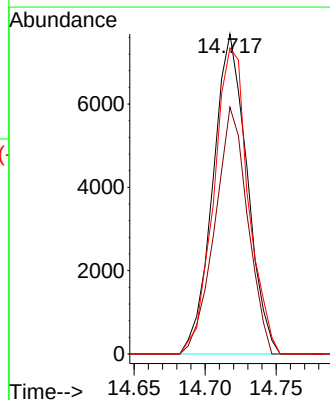
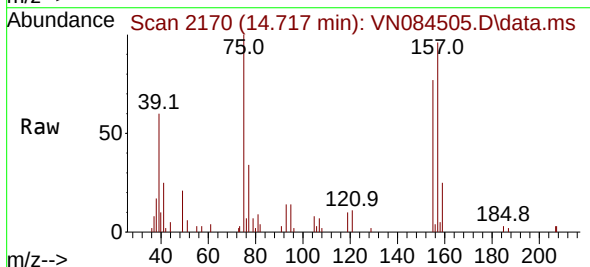
Tgt Ion: 75 Resp: 12838

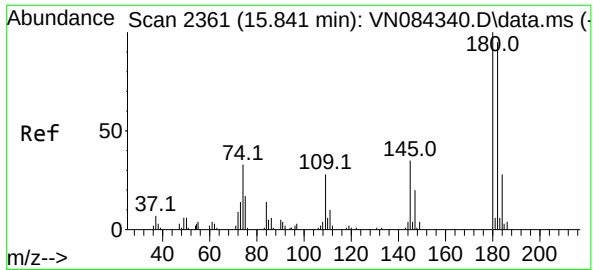
Ion Ratio Lower Upper

75 100

155 74.0 61.8 92.8

157 96.8 77.4 116.0





#89

1,2,4-Trichlorobenzene

Concen: 17.861 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

Instrument :

MSVOA_N

ClientSampleId :

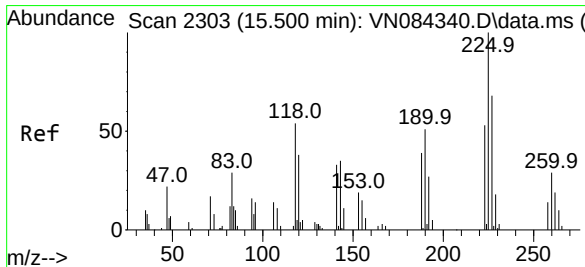
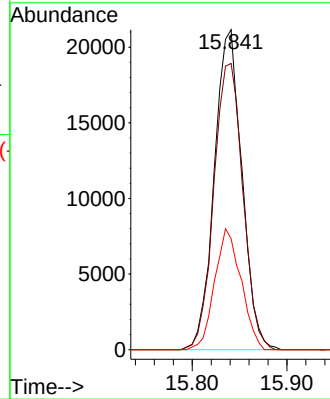
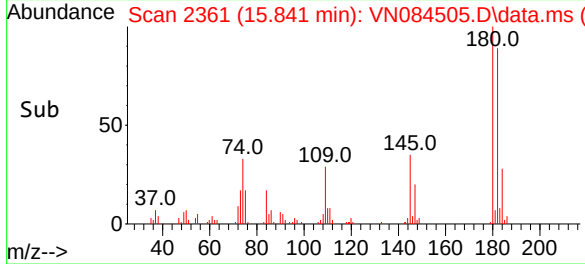
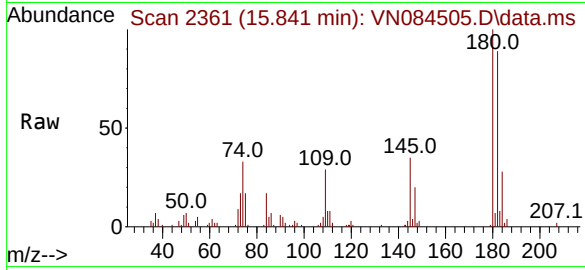
VN1025WBS01

Tgt Ion:	180	Resp:	4284
Ion Ratio	Lower	Upper	
180	100		
182	93.9	77.8	116.6
145	36.1	28.9	43.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#90

Hexachlorobutadiene

Concen: 18.527 ug/l

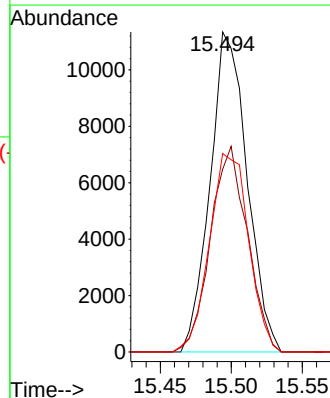
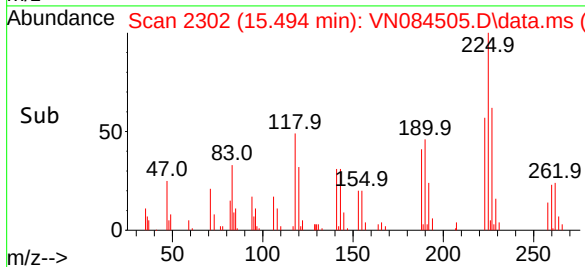
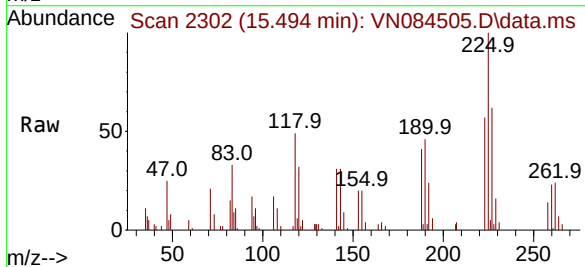
RT: 15.494 min Scan# 2302

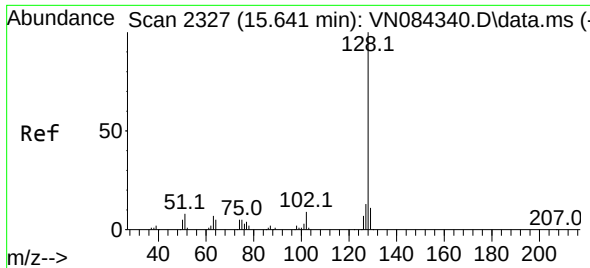
Delta R.T. -0.006 min

Lab File: VN084505.D

Acq: 25 Oct 2024 10:40

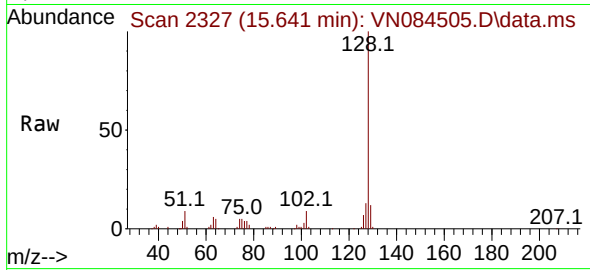
Tgt Ion:	225	Resp:	20560
Ion Ratio	Lower	Upper	
225	100		
223	64.2	0.0	124.0
227	65.7	0.0	130.8





#91
Naphthalene
Concen: 16.837 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

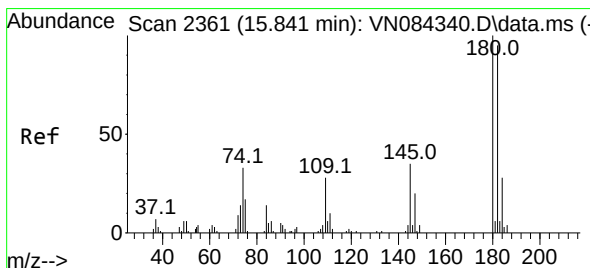
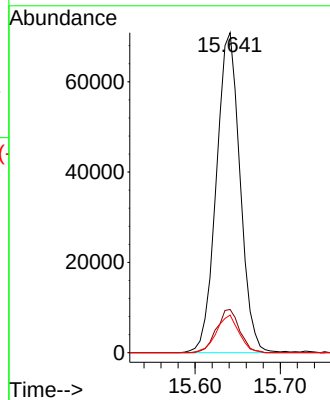
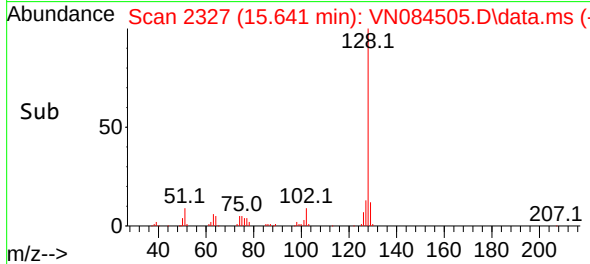
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS01



Tgt Ion:128 Resp: 136862
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 11.3 8.8 13.2

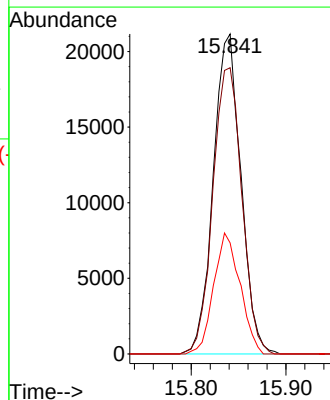
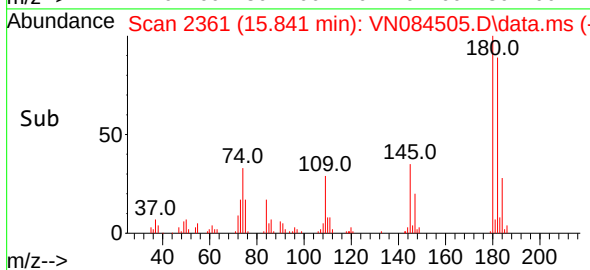
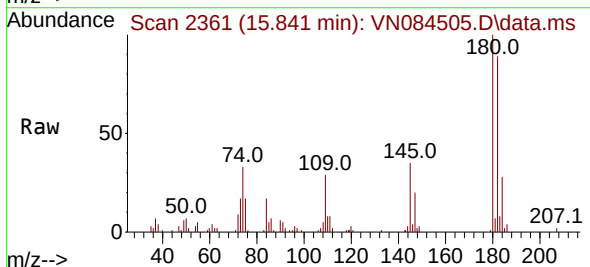
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#92
1,2,3-Trichlorobenzene
Concen: 17.861 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN084505.D
Acq: 25 Oct 2024 10:40

Tgt Ion:180 Resp: 42844
Ion Ratio Lower Upper
180 100
182 93.9 0.0 194.4
145 36.1 0.0 72.2



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN1025WBSD01			SDG No.:	P4549
Lab Sample ID:	VN1025WBSD01			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
VN084506.D	1		10/25/24 11:04	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.2		1.20	5.00	ug/L
74-87-3	Chloromethane	16.8		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	18.0		1.20	5.00	ug/L
74-83-9	Bromomethane	17.2		1.40	5.00	ug/L
75-00-3	Chloroethane	18.6		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.3		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.9		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		1.10	5.00	ug/L
107-02-8	Acrolein	100		9.30	25.0	ug/L
107-13-1	Acrylonitrile	92.5		3.70	25.0	ug/L
67-64-1	Acetone	110		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	15.9		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	19.1		0.83	5.00	ug/L
79-20-9	Methyl Acetate	21.9		1.20	5.00	ug/L
75-09-2	Methylene Chloride	18.7		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.5		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.81	5.00	ug/L
110-82-7	Cyclohexane	17.2		1.00	5.00	ug/L
78-93-3	2-Butanone	97.6		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	19.2		1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.90	5.00	ug/L
67-66-3	Chloroform	18.8		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.2		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	17.1		0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	17.5		0.75	5.00	ug/L
71-43-2	Benzene	18.5		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.75	5.00	ug/L
79-01-6	Trichloroethene	18.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	18.2		0.65	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN1025WBSD01			SDG No.:	P4549
Lab Sample ID:	VN1025WBSD01			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
VN084506.D	1		10/25/24 11:04	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	18.4		0.70	5.00	ug/L
75-27-4	Bromodichloromethane	18.5		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.9		4.20	25.0	ug/L
108-88-3	Toluene	18.6		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.8		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.6		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.6		0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	18.5		0.68	5.00	ug/L
591-78-6	2-Hexanone	97.3		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	18.3		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	18.0		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.94	5.00	ug/L
108-90-7	Chlorobenzene	18.5		0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	18.9		0.91	5.00	ug/L
67-72-1	Hexachloroethane	17.6		0.91	5.00	ug/L
100-41-4	Ethyl Benzene	18.2		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	37.3		1.70	10.0	ug/L
95-47-6	o-Xylene	18.5		0.82	5.00	ug/L
100-42-5	Styrene	18.3		0.80	5.00	ug/L
75-25-2	Bromoform	18.2		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.1		0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	21.3		1.70	5.00	ug/L
108-86-1	Bromobenzene	18.2		0.69	5.00	ug/L
103-65-1	n-propylbenzene	18.3		0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	18.6		0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.5		0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	18.3		0.82	5.00	ug/L
98-06-6	tert-butylbenzene	18.8		0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	18.1		0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	18.5		0.77	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN1025WBSD01			SDG No.:	P4549
Lab Sample ID:	VN1025WBSD01			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
VN084506.D	1		10/25/24 11:04	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	18.3		0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.5		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.0		0.95	5.00	ug/L
104-51-8	n-Butylbenzene	17.4		0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.4		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.6		1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	17.6		1.10	5.00	ug/L
91-20-3	Naphthalene	16.7		1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.6		1.40	5.00	ug/L
74-88-4	Methyl Iodide	17.5		0.94	5.00	ug/L
80-62-6	Methyl methacrylate	18.0		1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.5		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.3		63 - 112	101%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	34700	7.812			
540-36-3	1,4-Difluorobenzene	195000	9.1			
3114-55-4	Chlorobenzene-d5	178000	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\VN102524\
 Data File : VN084506.D
 Acq On : 25 Oct 2024 11:04
 Operator : JC\MD
 Sample : VN1025WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024

Quant Time: Oct 26 05:26:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34702	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	195213	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	177752	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	84628	30.291	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.967%			
60) 4-Bromofluorobenzene	12.847	95	88864	30.291	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.967%			
63) Toluene-d8	10.565	98	243186	29.532	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.433%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	36422	17.191	ug/l	97
3) Chloromethane	2.359	50	40390	16.752	ug/l	100
4) Vinyl Chloride	2.512	62	42500	17.975	ug/l	90
5) Bromomethane	2.965	94	26896	17.170	ug/l	91
6) Chloroethane	3.124	64	28823	18.595	ug/l	96
7) Trichlorofluoromethane	3.495	101	70666	18.349	ug/l	100
8) Diethyl Ether	3.959	74	25446	17.971	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	40889	18.882	ug/l	97
10) 1,1-Dichloroethene	4.336	96	38691	17.906	ug/l	88
11) Methyl Iodide	4.589	142	49750	17.521	ug/l	98
12) Methyl Acetate	5.024	43	59249	21.903	ug/l	97
13) Acrolein	4.177	56	52346	104.172	ug/l	99
14) Acrylonitrile	5.718	53	112460	92.538	ug/l	98
15) Acetone	4.424	58	38657	111.353	ug/l	96
16) Carbon Disulfide	4.712	76	102112	15.870	ug/l	97
17) Allyl chloride	5.024	41	63362	18.090	ug/l	98
18) Methylene Chloride	5.283	84	45436	18.667	ug/l	95
19) trans-1,2-Dichloroethene	5.789	96	40072	17.523	ug/l	97
20) Diisopropyl ether	6.671	45	143102	19.002	ug/l	97
21) 1,1-Dichloroethane	6.571	63	80838	18.707	ug/l	94
22) cis-1,2-Dichloroethene	7.488	96	49067	18.439	ug/l	97
23) tert-Butyl Alcohol	5.518	59	43998	94.385	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	138022	19.114	ug/l #	87
25) Chloroform	7.965	83	82367	18.820	ug/l	95
26) Cyclohexane	8.253	56	62057	17.171	ug/l #	94
29) 1,1-Dichloropropene	8.371	75	55926	17.452	ug/l	99
30) 2-Butanone	7.483	43	166499	97.586	ug/l #	81
31) 2,2-Dichloropropane	7.483	77	72293	19.197	ug/l #	81
32) 1,1,1-Trichloroethane	8.165	97	74656	18.226	ug/l	98
33) Carbon Tetrachloride	8.359	117	65486	18.454	ug/l	98
34) Benzene	8.606	78	185185	18.461	ug/l	95
35) Methacrylonitrile	7.777	41	34201	18.790	ug/l	96
36) 1,2-Dichloroethane	8.671	62	62515	18.697	ug/l	99
37) Trichloroethene	9.353	130	42690	18.481	ug/l	91
38) Methylcyclohexane	9.600	83	60037	17.056	ug/l	99
39) 1,2-Dichloropropane	9.618	63	44464	18.177	ug/l	96
40) Dibromomethane	9.706	93	31527	18.441	ug/l	97
41) Bromodichloromethane	9.888	83	67112	18.491	ug/l	94
42) Vinyl Acetate	6.600	43	519106	87.481	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084506.D
 Acq On : 25 Oct 2024 11:04
 Operator : JC\MD
 Sample : VN1025WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 10/28/2024
 Supervised By : Mahesh Dadoda 10/28/2024

Quant Time: Oct 26 05:26:58 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Oct 09 02:22:28 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	59398	17.652	ug/l	97
44) Isopropyl Acetate	8.688	43	109016	19.794	ug/l	96
45) 1,4-Dioxane	9.694	88	17576	354.009	ug/l	98
46) Methyl methacrylate	9.682	41	47794	17.961	ug/l	97
47) n-amyl Acetate	12.494	43	87873	17.937	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	66779	17.805	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	72971	18.565	ug/l	92
50) 1,1,2-Trichloroethane	11.018	97	42706	18.584	ug/l	95
51) Ethyl methacrylate	10.871	69	69514	18.314	ug/l	99
52) 1,3-Dichloropropane	11.159	76	74470	18.534	ug/l	100
53) Dibromochloromethane	11.359	129	49660	18.294	ug/l	98
54) 1,2-Dibromoethane	11.465	107	42517	17.974	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	152493	88.579	ug/l	99
56) Bromoform	12.576	173	32774	18.203	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	317615	95.920	ug/l	100
59) 2-Hexanone	11.194	43	239404	97.299	ug/l	100
61) Tetrachloroethene	11.100	164	37279	18.541	ug/l	98
62) Toluene	10.629	91	193173	18.564	ug/l	99
64) Chlorobenzene	11.888	112	120005	18.532	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	42428	18.860	ug/l	99
66) Ethyl Benzene	11.965	91	205594	18.185	ug/l	100
67) m/p-Xylenes	12.070	106	159912	37.286	ug/l	99
68) o-Xylene	12.394	106	76327	18.463	ug/l	99
69) Styrene	12.412	104	130016	18.321	ug/l	100
70) Isopropylbenzene	12.694	105	195104	18.487	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.935	83	62486	19.140	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	59504m	21.282	ug/l	
73) Bromobenzene	12.982	156	46579	18.224	ug/l	98
74) n-propylbenzene	13.035	91	229550	18.253	ug/l	99
75) 2-Chlorotoluene	13.123	91	145197	18.580	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	164553	18.518	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	21527	18.017	ug/l	96
78) 4-Chlorotoluene	13.217	91	145653	18.332	ug/l	97
79) tert-butylbenzene	13.435	119	142685	18.822	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	162818	18.059	ug/l	99
81) sec-Butylbenzene	13.612	105	192819	18.474	ug/l	100
82) p-Isopropyltoluene	13.729	119	160343	18.252	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	87899	18.496	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	84764	17.962	ug/l	99
85) n-Butylbenzene	14.053	91	132654	17.435	ug/l	99
86) Hexachloroethane	14.329	117	29867	17.647	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	84315	18.350	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	12707	19.033	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	42050	17.602	ug/l	97
90) Hexachlorobutadiene	15.500	225	19449	17.598	ug/l	100
91) Naphthalene	15.641	128	135282	16.711	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	42050	17.602	ug/l	97

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

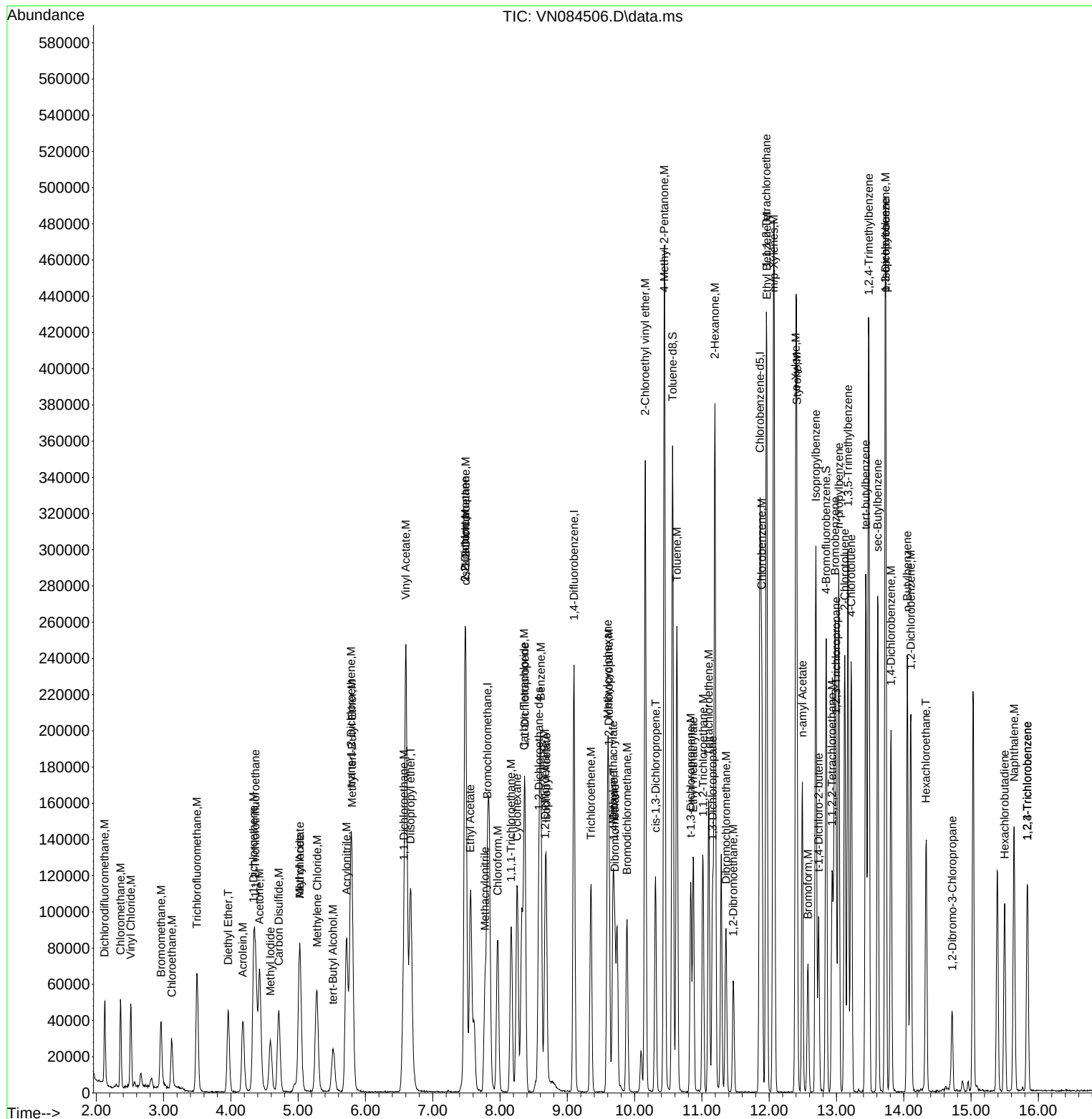
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Data File : VN084506.D
Acq On : 25 Oct 2024 11:04
Operator : JC\MD
Sample : VN1025WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

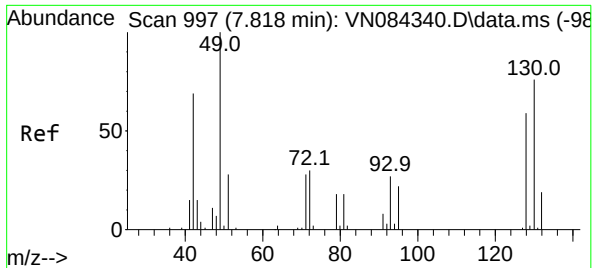
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

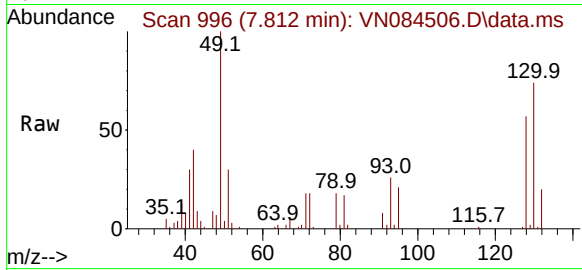
Quant Time: Oct 26 05:26:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:22:28 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

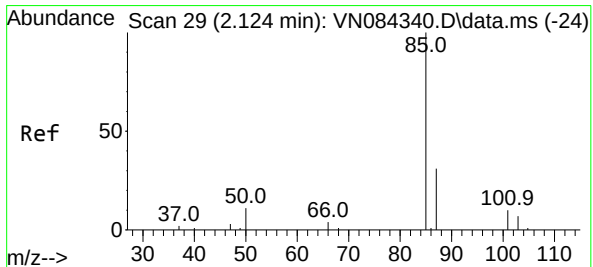
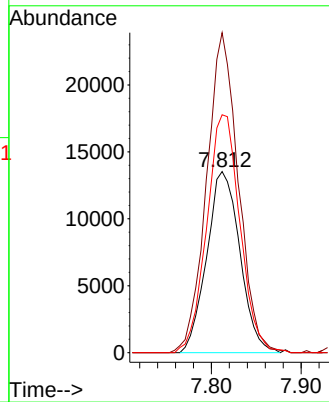
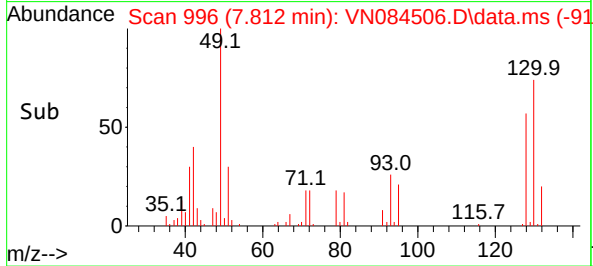
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion:128 Resp: 34702
Ion Ratio Lower Upper
128 100
49 169.0 0.0 430.0
130 131.8 0.0 329.8

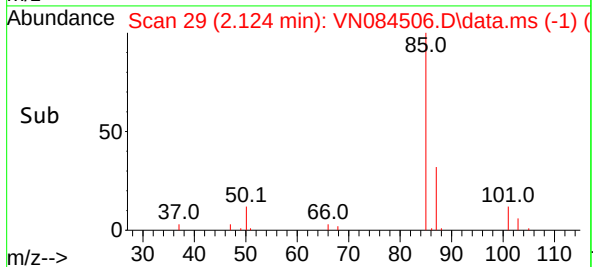
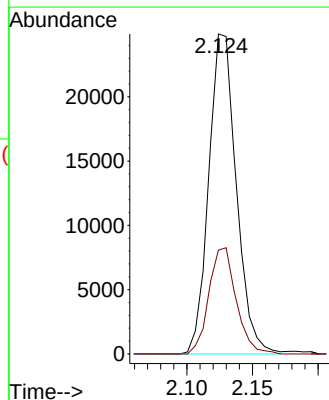
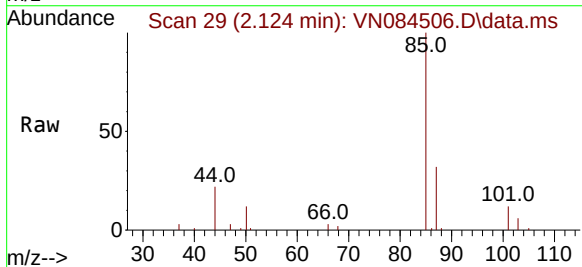
Manual Integrations
APPROVED

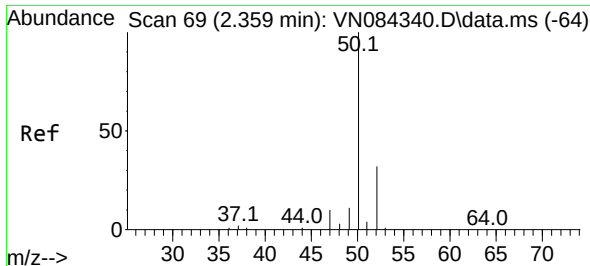
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#2
Dichlorodifluoromethane
Concen: 17.191 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 85 Resp: 36422
Ion Ratio Lower Upper
85 100
87 32.4 15.4 46.4





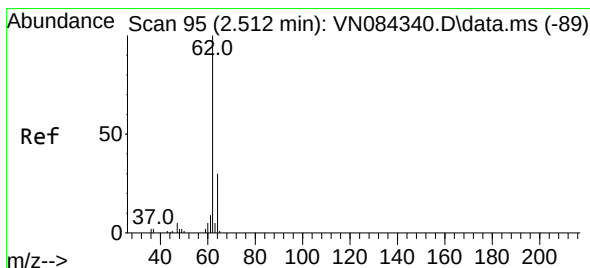
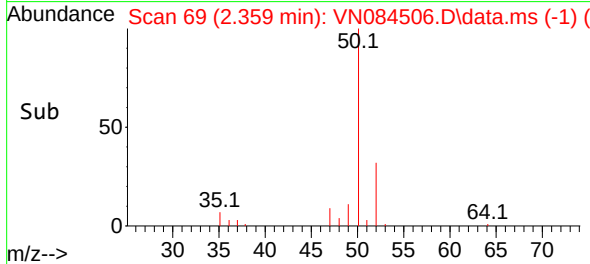
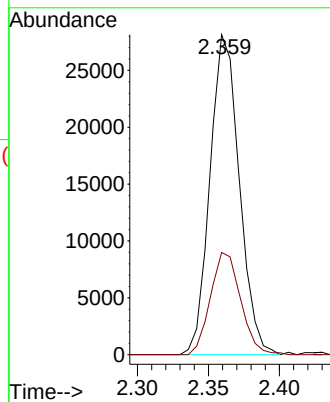
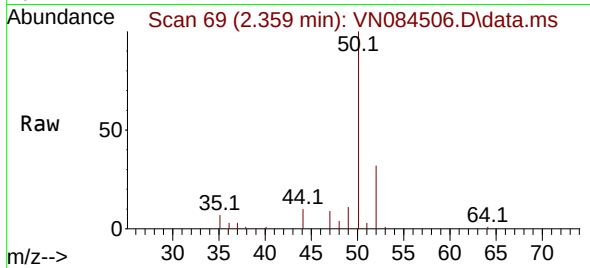
#3
Chloromethane
Concen: 16.752 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Tgt Ion: 50 Resp: 40390
Ion Ratio Lower Upper
50 100
52 31.9 25.8 38.6

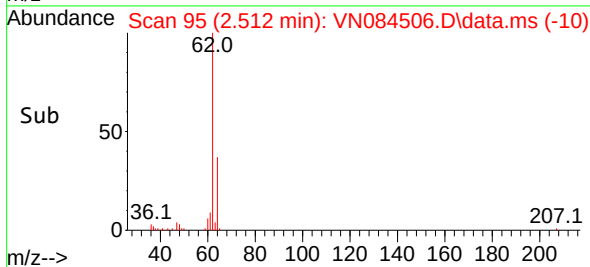
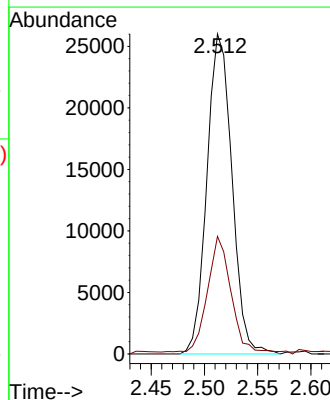
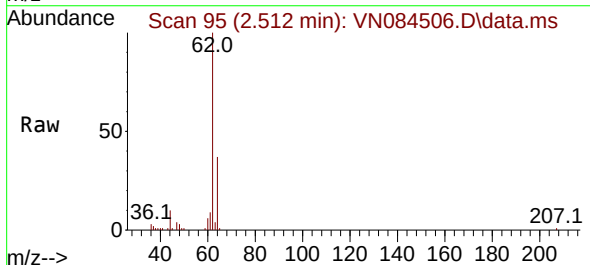
Manual Integrations
APPROVED

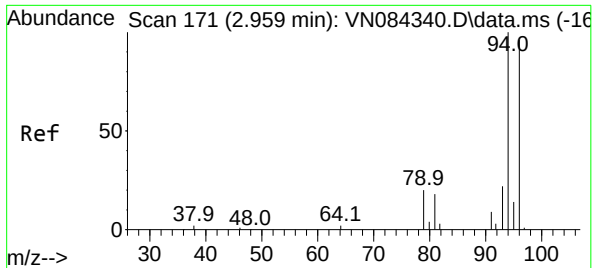
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#4
Vinyl Chloride
Concen: 17.975 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 62 Resp: 42500
Ion Ratio Lower Upper
62 100
64 36.0 24.3 36.5





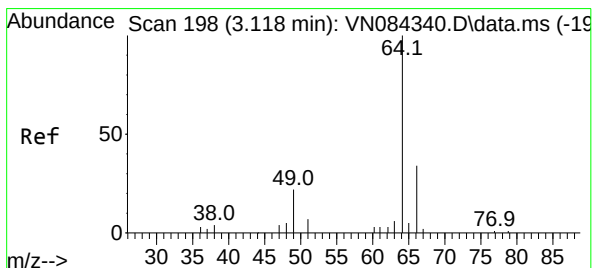
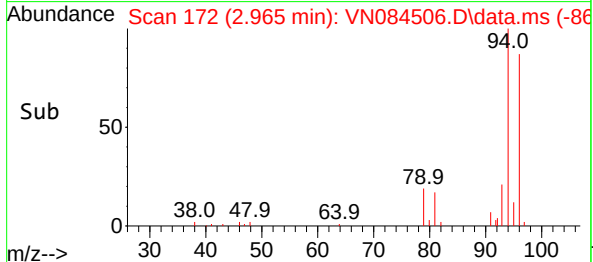
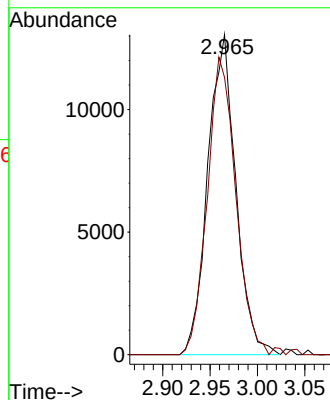
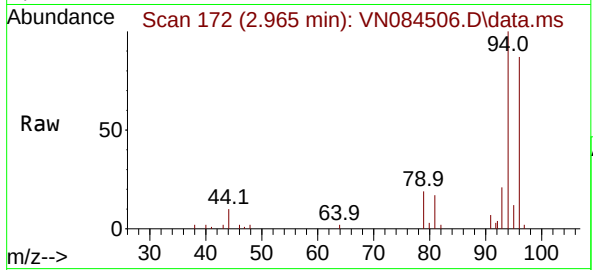
#5
Bromomethane
Concen: 17.170 ug/l
RT: 2.965 min Scan# 171
Delta R.T. 0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Tgt Ion: 94 Resp: 26890
Ion Ratio Lower Upper
94 100
96 86.6 76.7 115.1

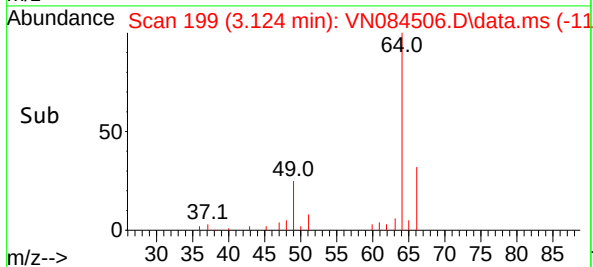
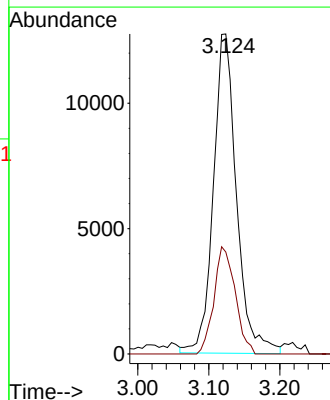
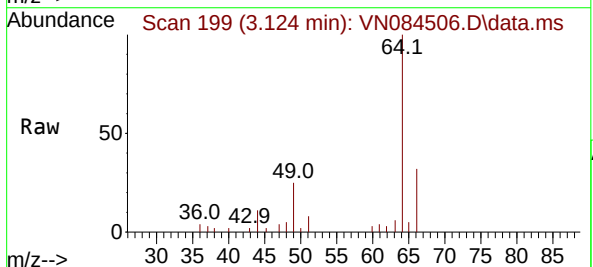
Manual Integrations
APPROVED

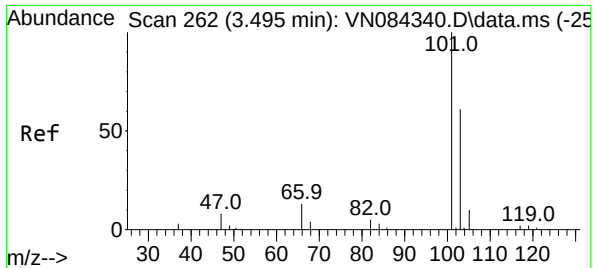
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#6
Chloroethane
Concen: 18.595 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

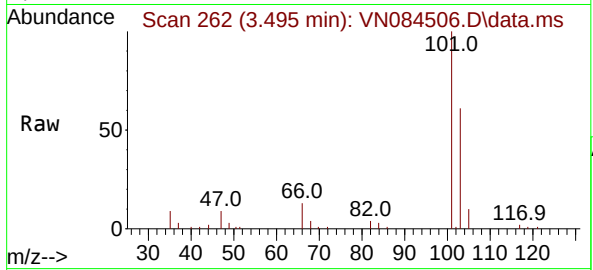
Tgt Ion: 64 Resp: 28823
Ion Ratio Lower Upper
64 100
66 32.5 27.7 41.5





#7
Trichlorofluoromethane
Concen: 18.349 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

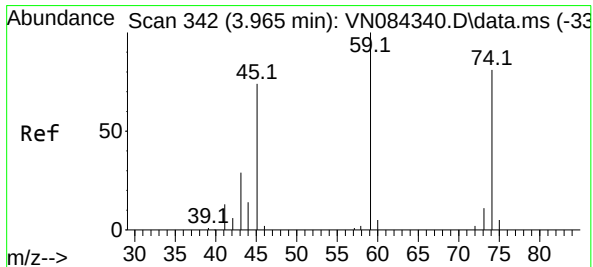
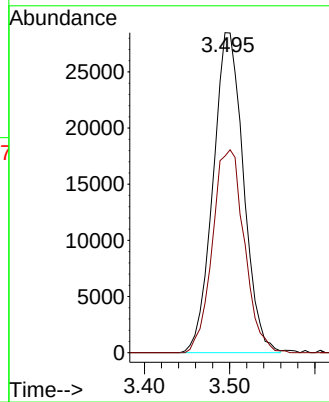
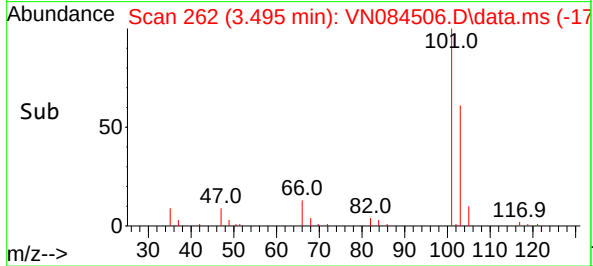
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion:101 Resp: 70660
Ion Ratio Lower Upper
101 100
103 61.5 49.0 73.6

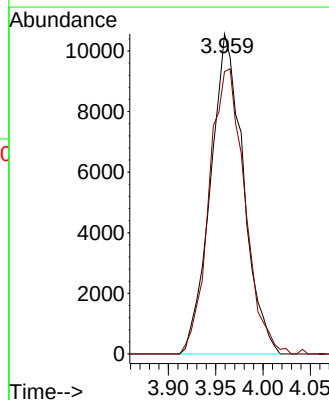
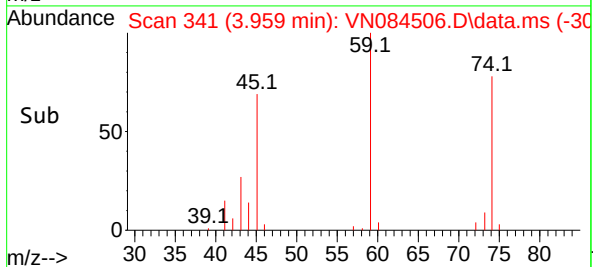
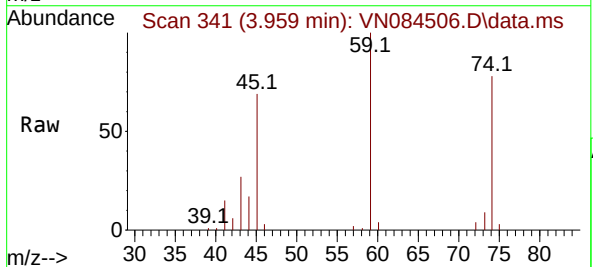
Manual Integrations
APPROVED

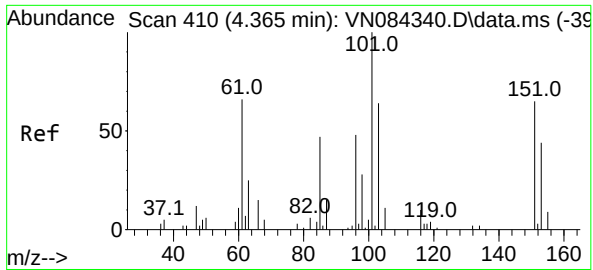
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#8
Diethyl Ether
Concen: 17.971 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 74 Resp: 25446
Ion Ratio Lower Upper
74 100
45 96.5 19.2 173.2





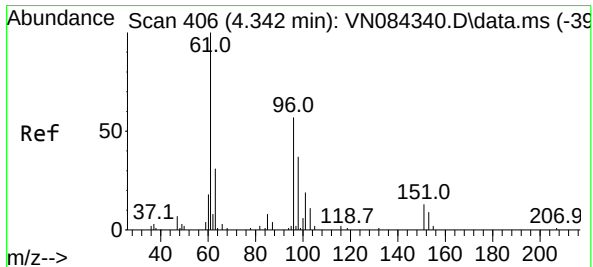
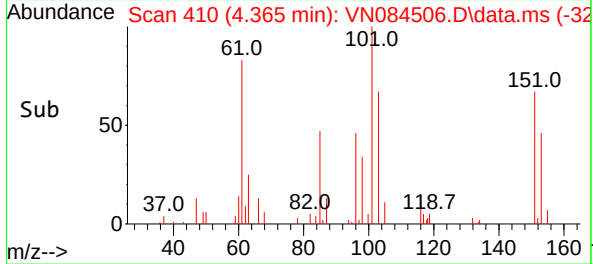
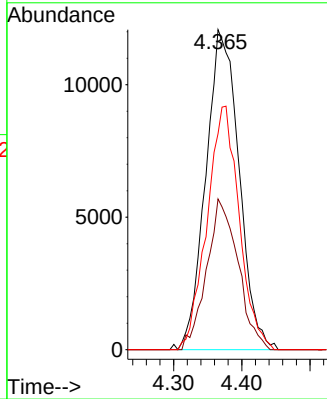
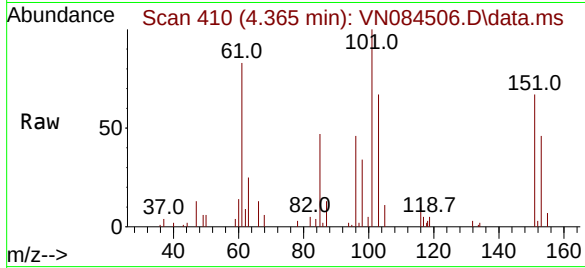
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.882 ug/l
RT: 4.365 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Tgt Ion:101 Resp: 40889
Ion Ratio Lower Upper
101 100
85 44.5 0.0 93.6
151 73.8 0.0 151.8

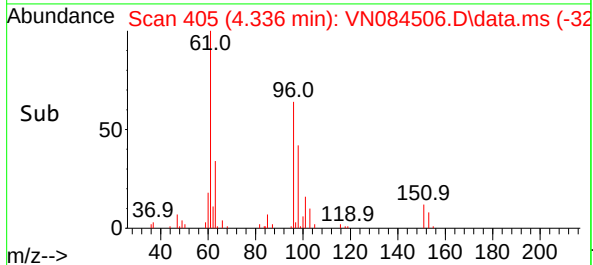
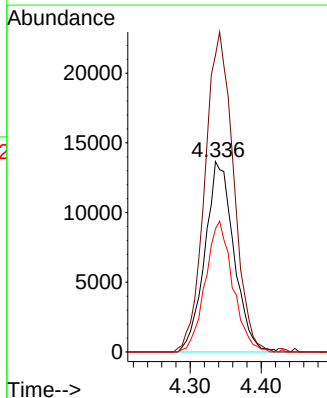
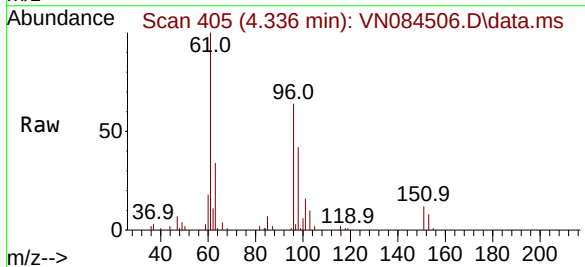
Manual Integrations
APPROVED

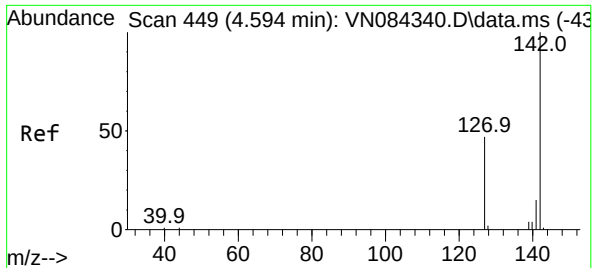
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#10
1,1-Dichloroethene
Concen: 17.906 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 96 Resp: 38691
Ion Ratio Lower Upper
96 100
61 154.2 140.8 211.2
98 64.7 52.2 78.2





#11

Methyl Iodide

Concen: 17.521 ug/l

RT: 4.589 min Scan# 449

Delta R.T. -0.006 min

Lab File: VN084506.D

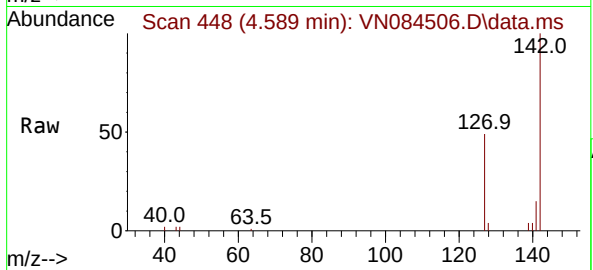
Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01



Tgt Ion:142 Resp: 49750

Ion Ratio Lower Upper

142 100

127 48.9 23.8 71.4

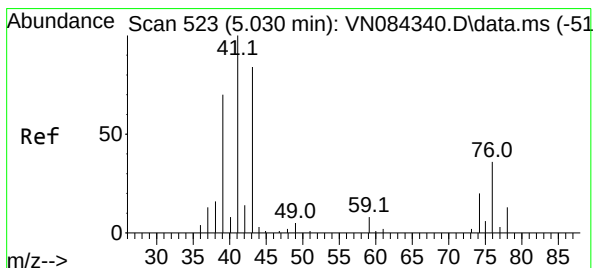
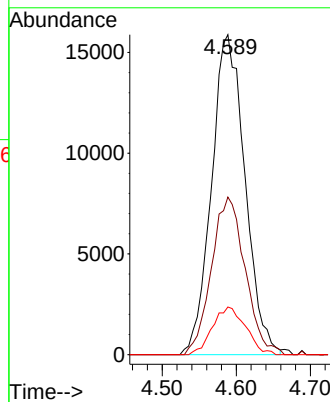
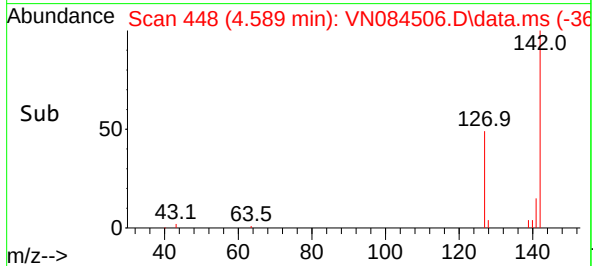
141 15.0 7.4 22.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#12

Methyl Acetate

Concen: 21.903 ug/l

RT: 5.024 min Scan# 522

Delta R.T. -0.006 min

Lab File: VN084506.D

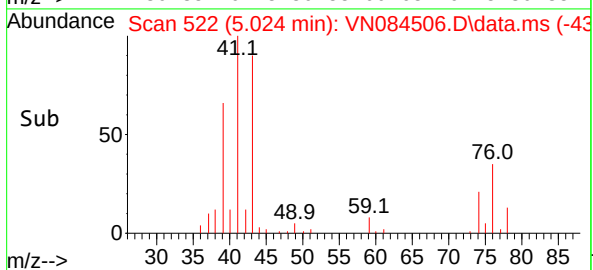
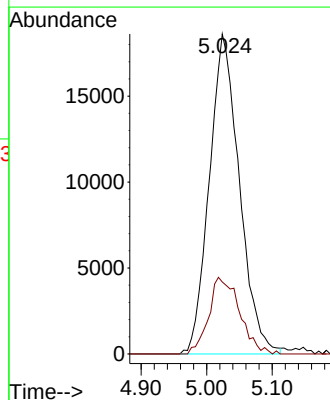
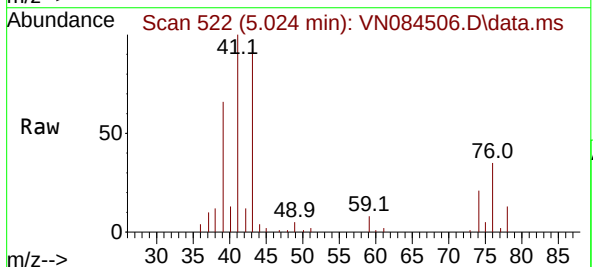
Acq: 25 Oct 2024 11:04

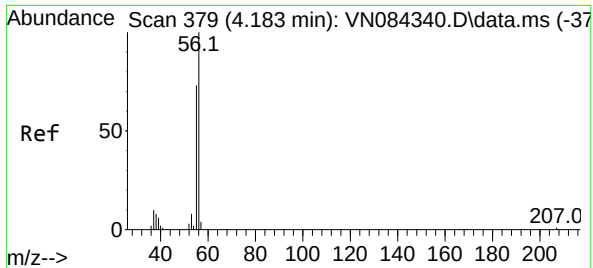
Tgt Ion: 43 Resp: 59249

Ion Ratio Lower Upper

43 100

74 22.7 19.4 29.2





#13

Acrolein

Concen: 104.172 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 56 Resp: 52340

Ion Ratio Lower Upper

56 100

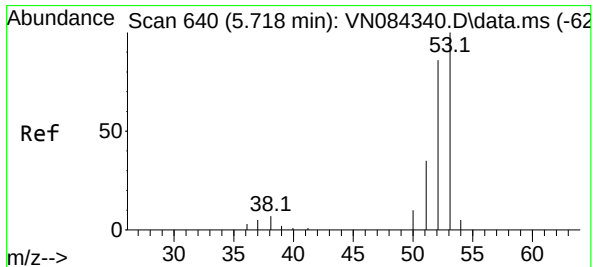
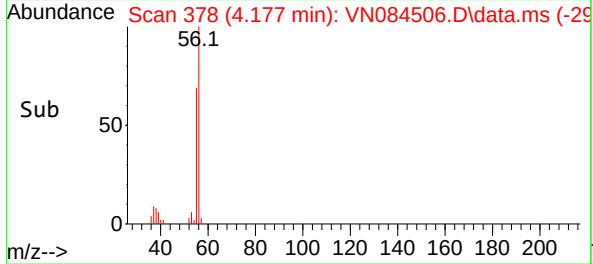
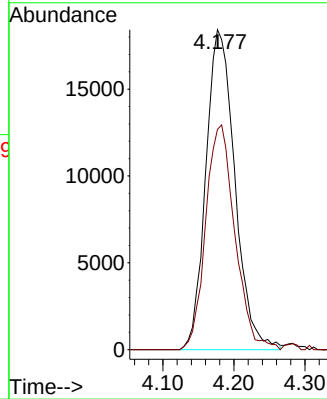
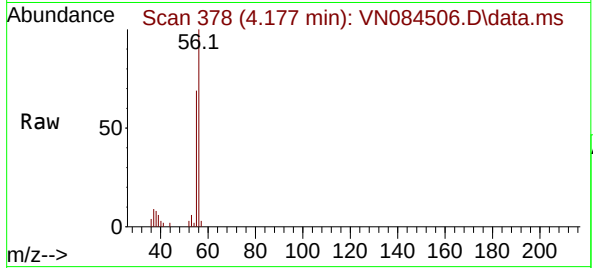
55 69.7 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#14

Acrylonitrile

Concen: 92.538 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

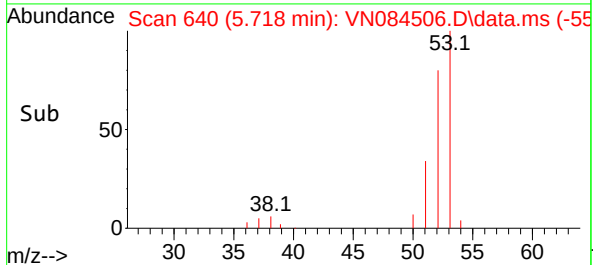
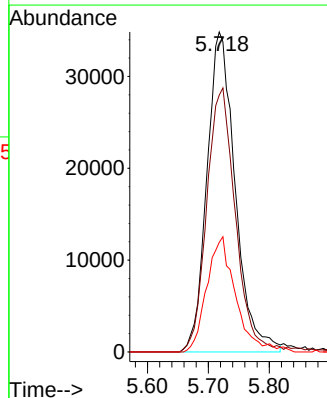
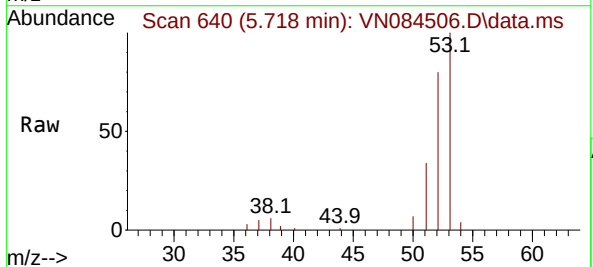
Tgt Ion: 53 Resp: 112460

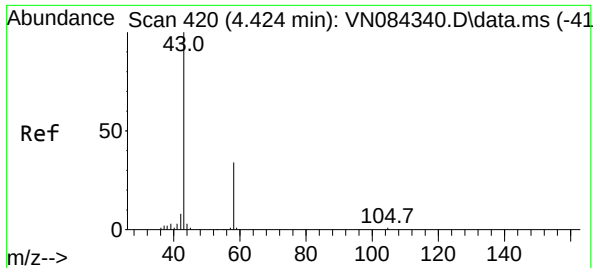
Ion Ratio Lower Upper

53 100

52 82.8 40.4 121.2

51 35.5 17.8 53.4





#15

Acetone

Concen: 111.353 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 58 Resp: 3865

Ion Ratio Lower Upper

58 100

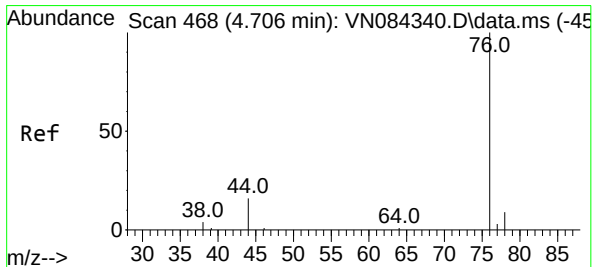
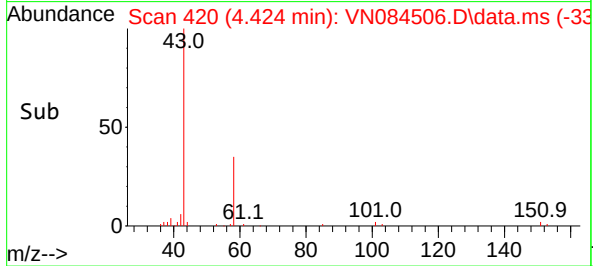
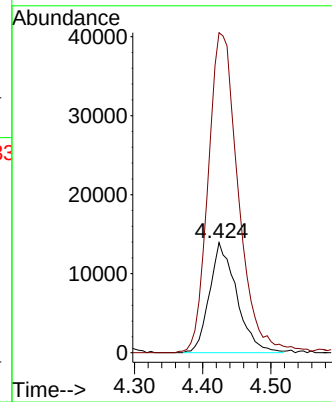
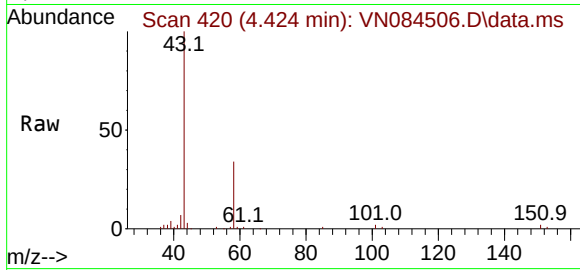
43 289.1 237.5 356.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#16

Carbon Disulfide

Concen: 15.870 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN084506.D

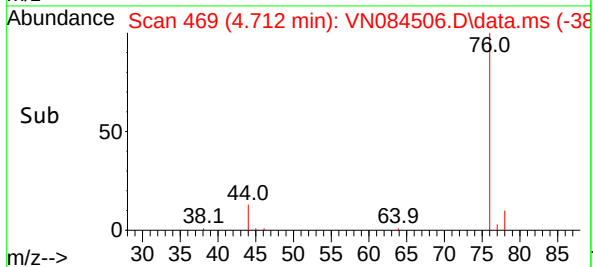
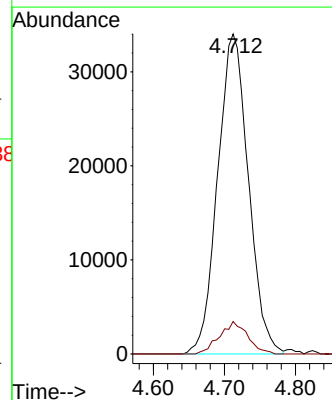
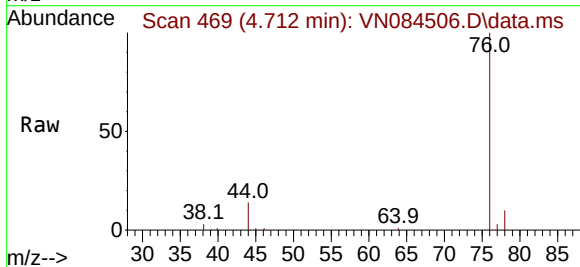
Acq: 25 Oct 2024 11:04

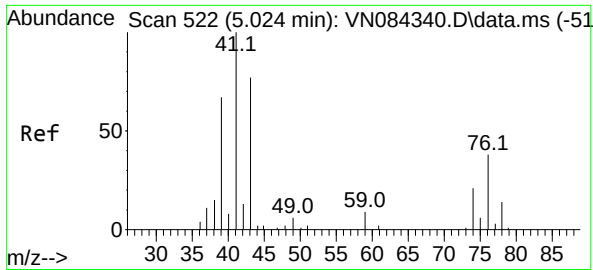
Tgt Ion: 76 Resp: 102112

Ion Ratio Lower Upper

76 100

78 10.2 7.1 10.7





#17

Allyl chloride

Concen: 18.090 ug/l

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 41 Resp: 6336

Ion Ratio Lower Upper

41 100

39 64.7 31.4 94.3

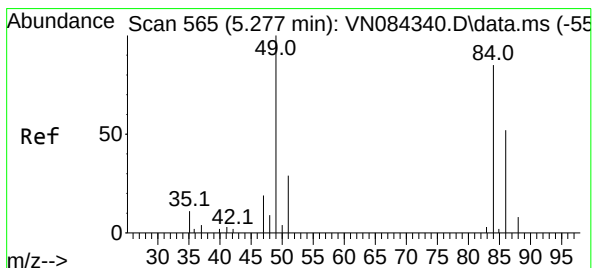
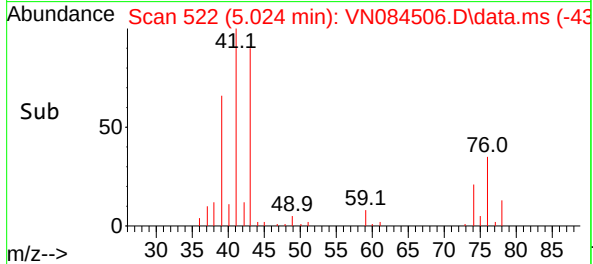
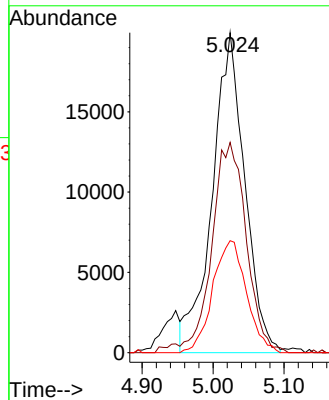
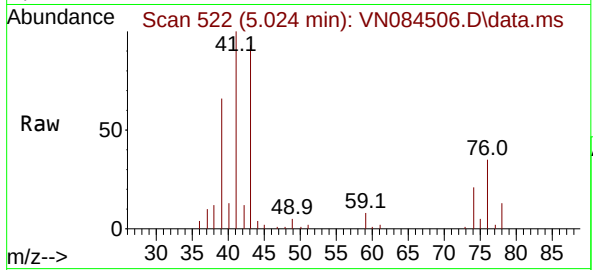
76 35.3 17.8 53.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#18

Methylene Chloride

Concen: 18.667 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.006 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Tgt Ion: 84 Resp: 45436

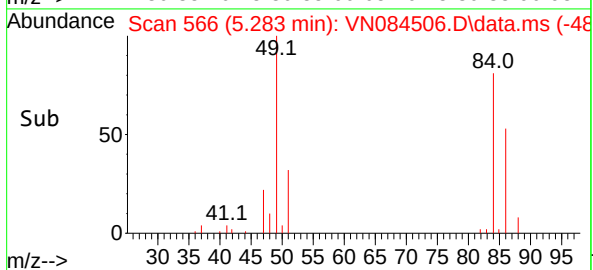
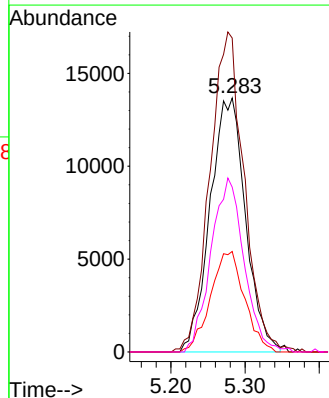
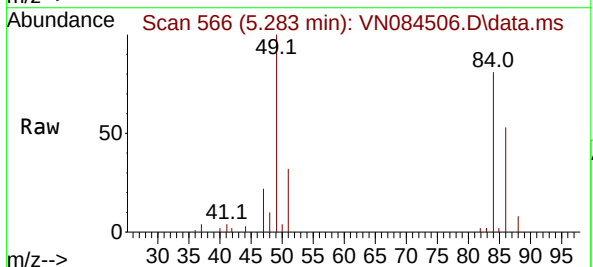
Ion Ratio Lower Upper

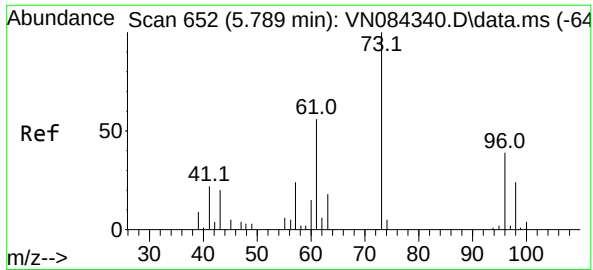
84 100

49 122.4 94.6 142.0

51 39.6 27.3 40.9

86 64.9 49.4 74.0





#19

trans-1,2-Dichloroethene

Concen: 17.523 ug/l

RT: 5.789 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 96 Resp: 40072

Ion Ratio Lower Upper

96 100

61 148.8 115.8 173.6

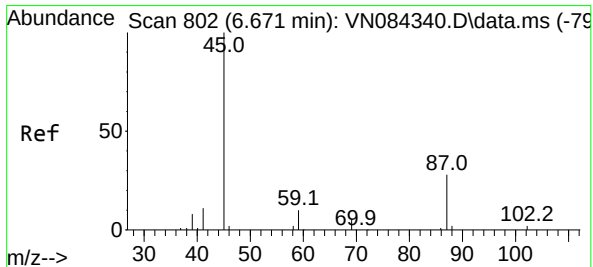
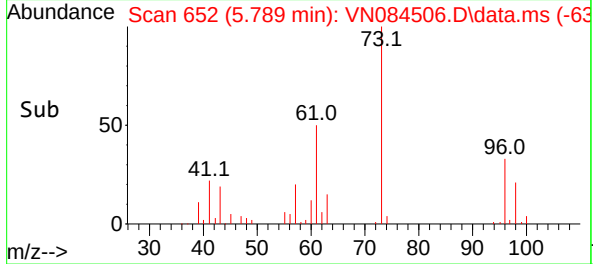
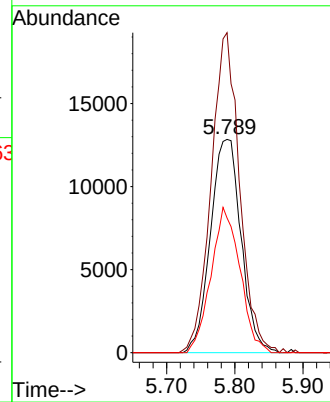
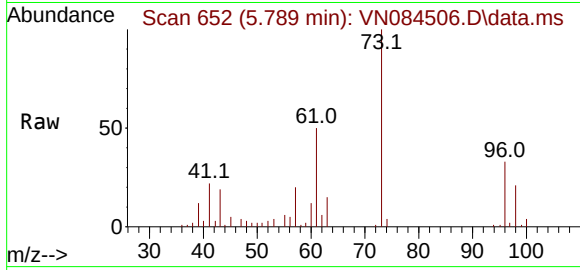
98 63.1 49.4 74.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#20

Diisopropyl ether

Concen: 19.002 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Tgt Ion: 45 Resp: 143102

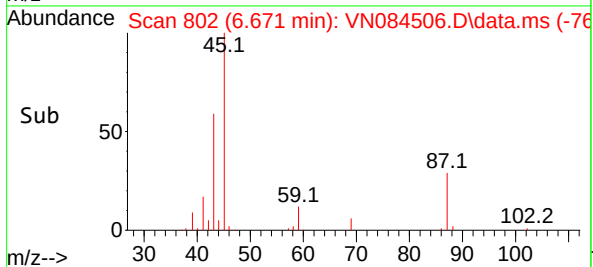
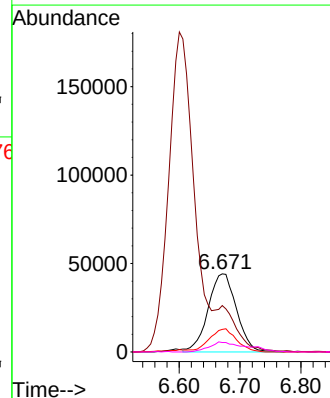
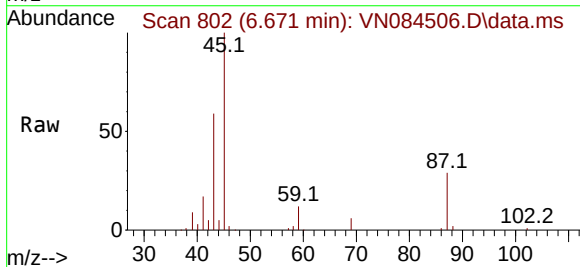
Ion Ratio Lower Upper

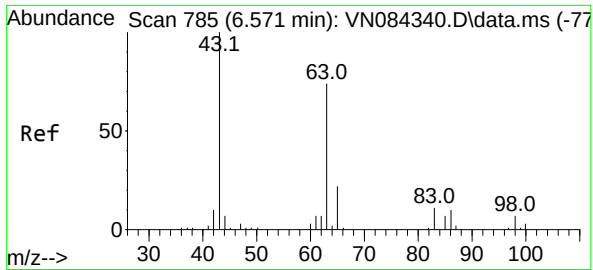
45 100

43 58.2 43.7 65.5

87 28.9 23.1 34.7

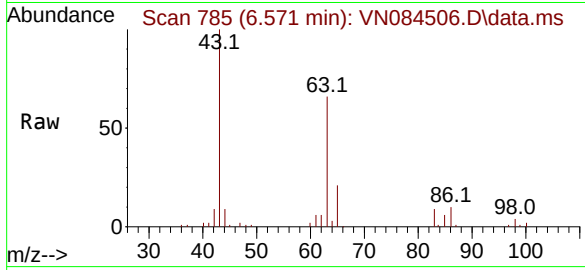
59 12.1 8.2 12.4





#21
1,1-Dichloroethane
Concen: 18.707 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

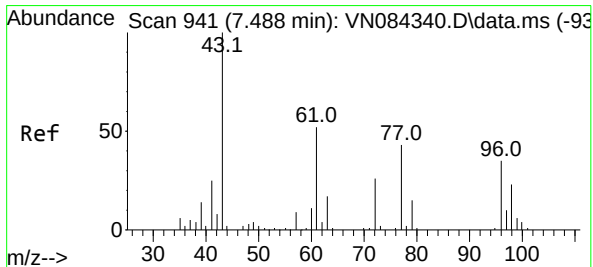
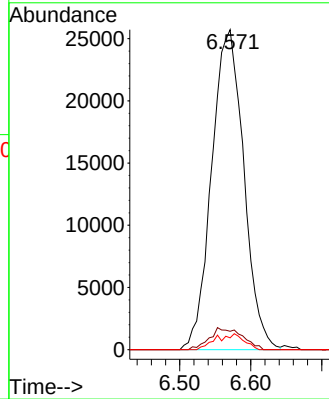
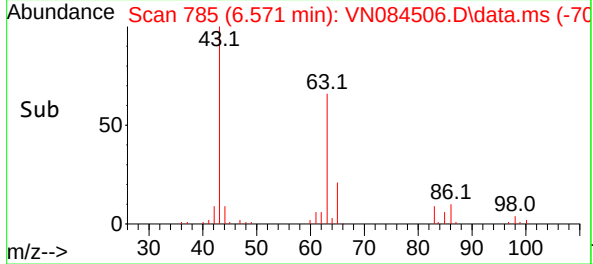
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion: 63 Resp: 80838
Ion Ratio Lower Upper
63 100
98 5.7 4.5 13.4
100 3.7 2.1 6.3

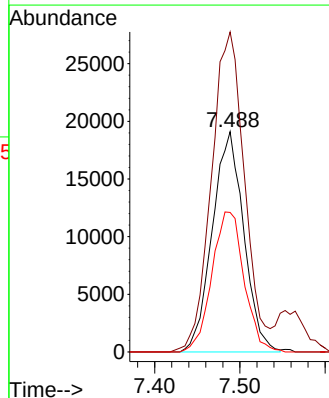
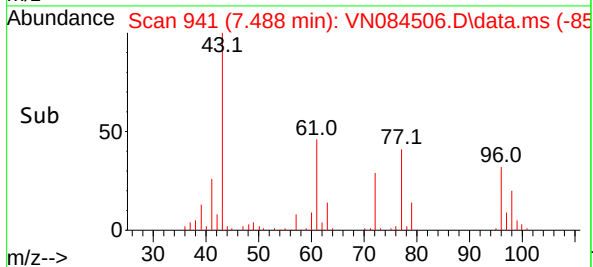
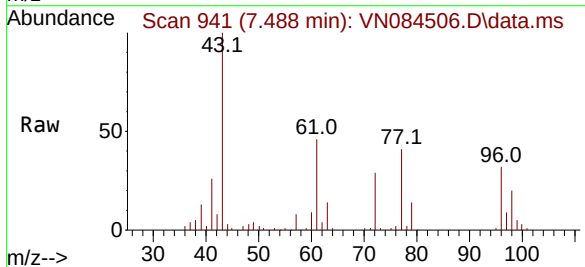
Manual Integrations
APPROVED

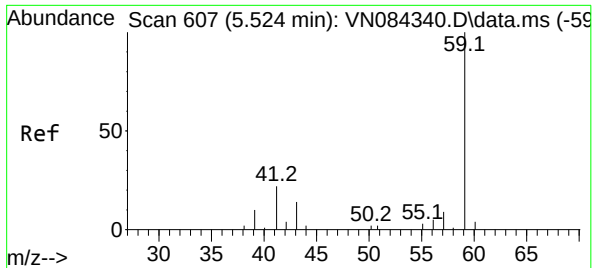
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#22
cis-1,2-Dichloroethene
Concen: 18.439 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 96 Resp: 49067
Ion Ratio Lower Upper
96 100
61 152.7 118.0 177.0
98 65.1 51.8 77.8





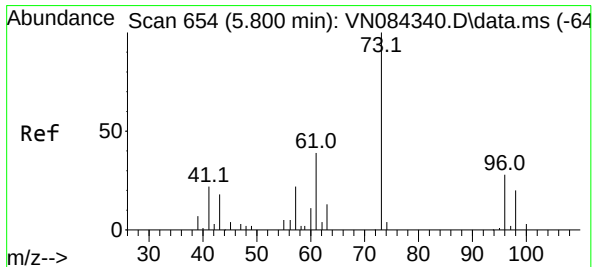
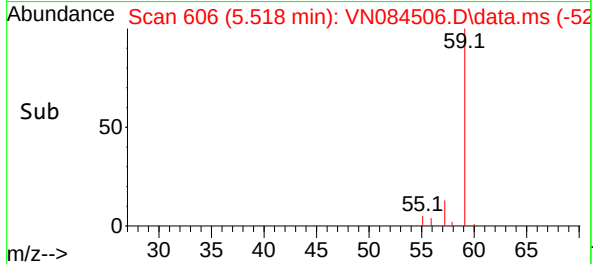
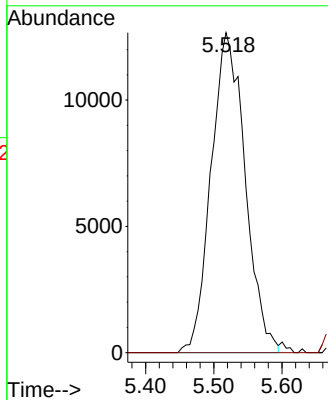
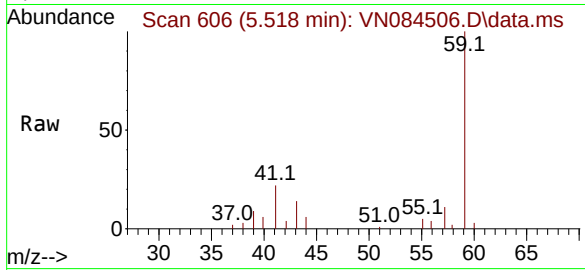
#23
tert-Butyl Alcohol
Concen: 94.385 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Tgt Ion: 59 Resp: 43998
Ion Ratio Lower Upper
59 100
52 211.6 0.0 0.0

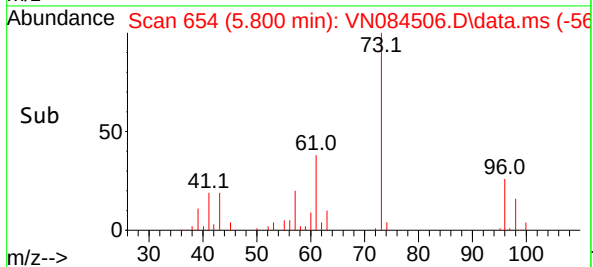
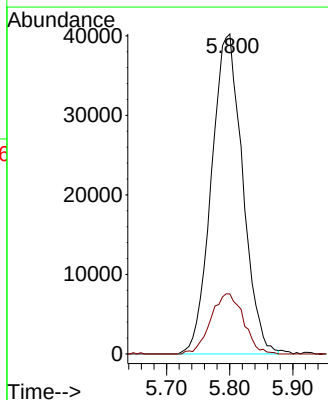
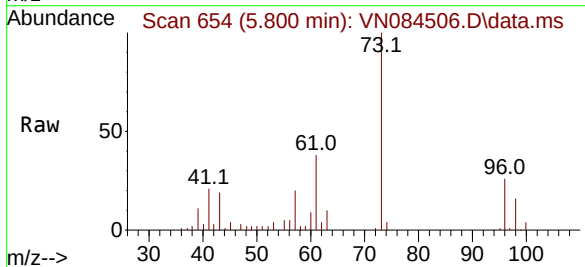
Manual Integrations
APPROVED

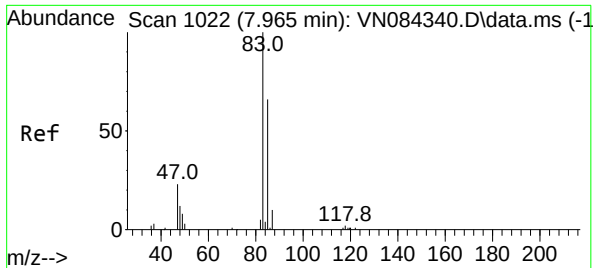
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#24
Methyl tert-Butyl Ether
Concen: 19.114 ug/l
RT: 5.800 min Scan# 654
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 73 Resp: 138022
Ion Ratio Lower Upper
73 100
43 18.9 10.9 16.3#





#25

Chloroform

Concen: 18.820 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 83 Resp: 8236

Ion Ratio Lower Upper

83 100

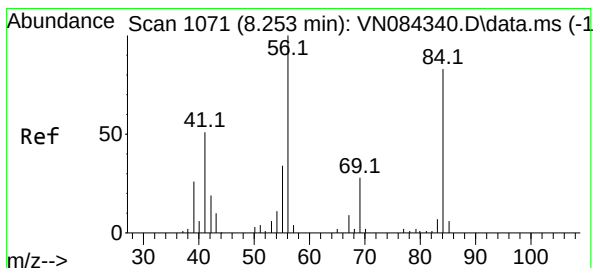
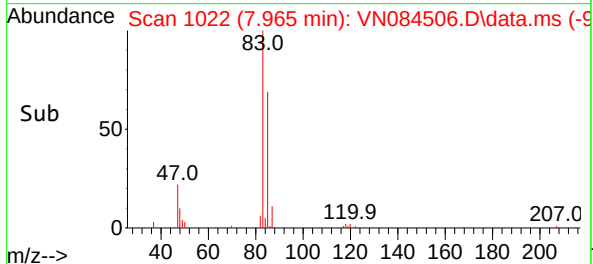
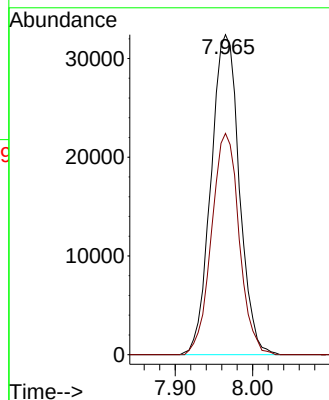
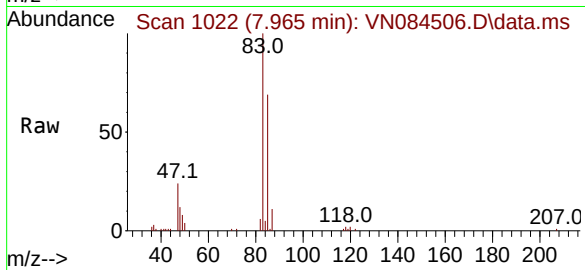
85 69.2 52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#26

Cyclohexane

Concen: 17.171 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

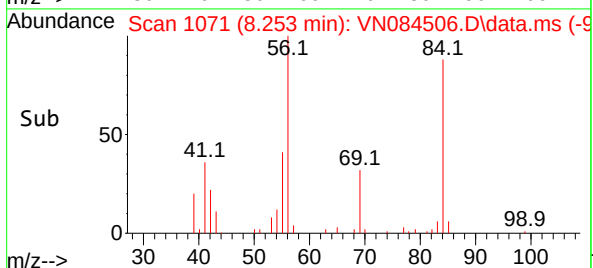
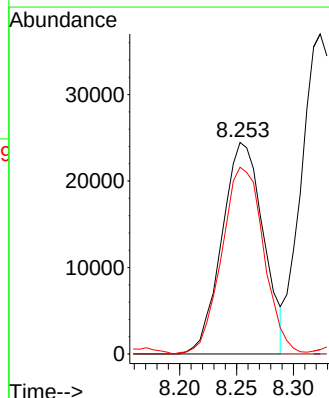
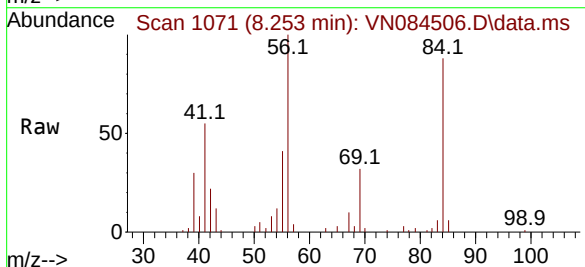
Tgt Ion: 56 Resp: 62057

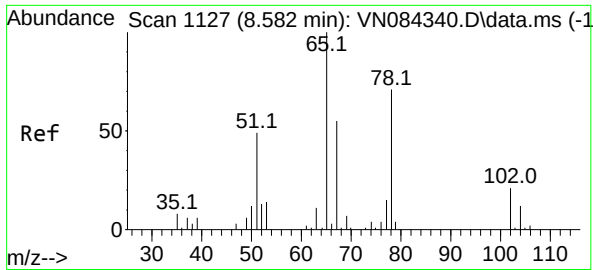
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 89.2 67.0 100.6





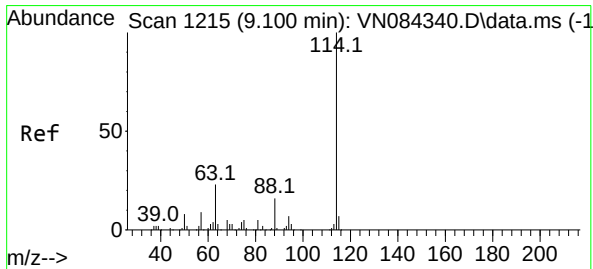
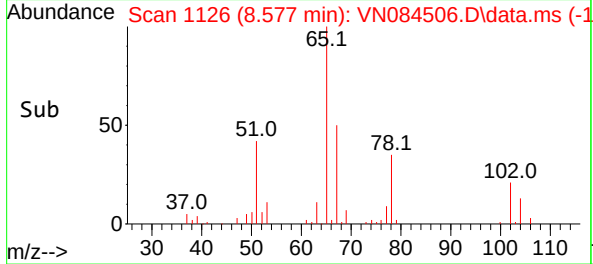
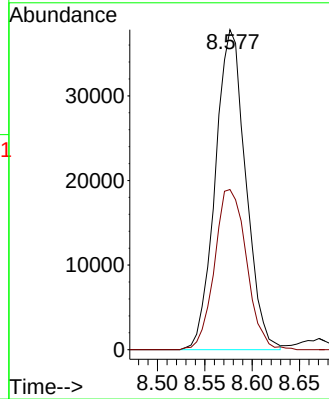
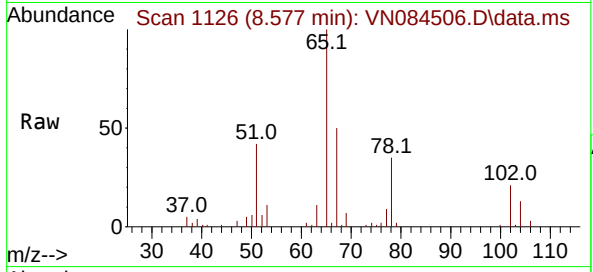
#27
1,2-Dichloroethane-d4
Concen: 30.291 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Tgt Ion: 65 Resp: 84628
Ion Ratio Lower Upper
65 100
67 52.6 41.5 62.3

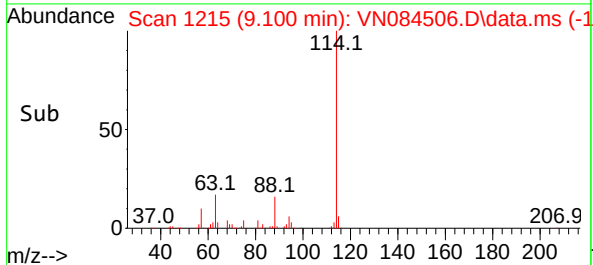
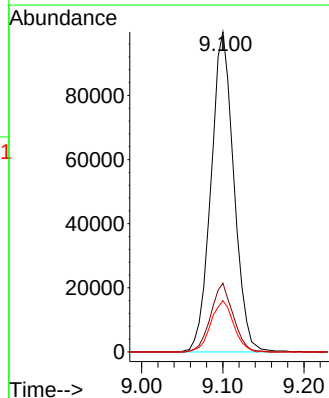
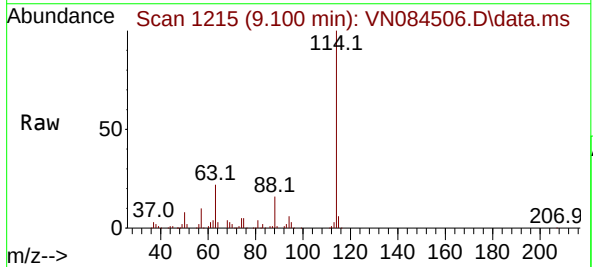
Manual Integrations
APPROVED

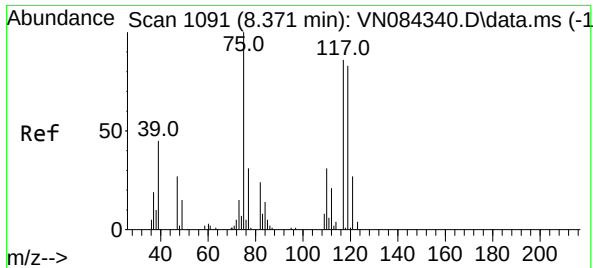
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion:114 Resp: 195213
Ion Ratio Lower Upper
114 100
63 21.0 17.4 26.0
88 15.9 13.2 19.8





#29

1,1-Dichloropropene

Concen: 17.452 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

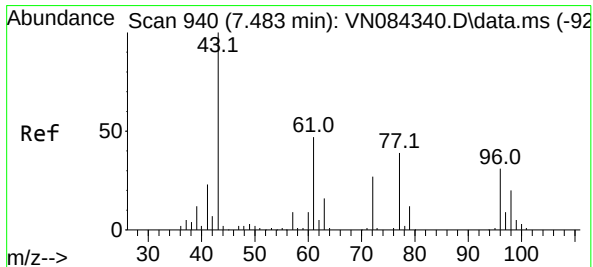
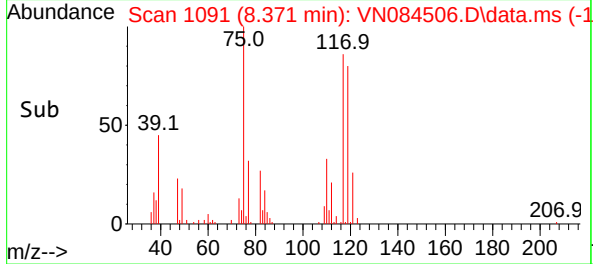
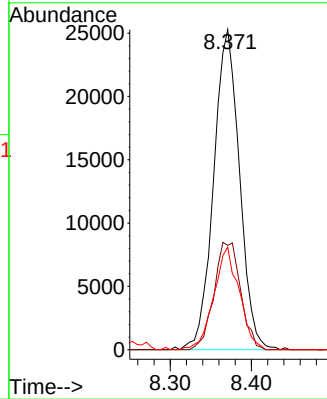
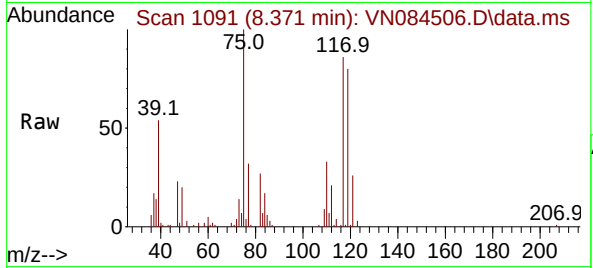
VN1025WBSD01

Tgt Ion:	75	Resp:	55920
Ion Ratio	Lower	Upper	
75	100		
110	34.5	0.0	67.6
77	31.5	0.0	61.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
 Supervised By :Mahesh Dadoda 10/28/2024



#30

2-Butanone

Concen: 97.586 ug/l

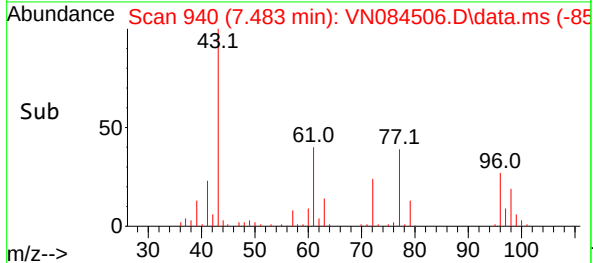
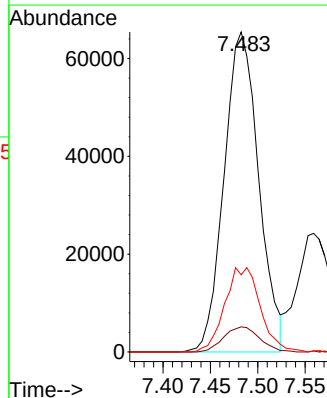
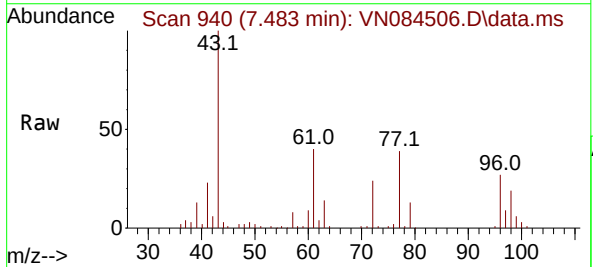
RT: 7.483 min Scan# 940

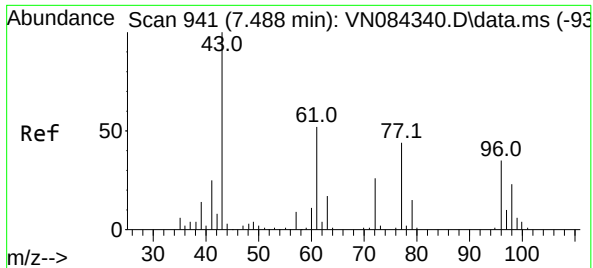
Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

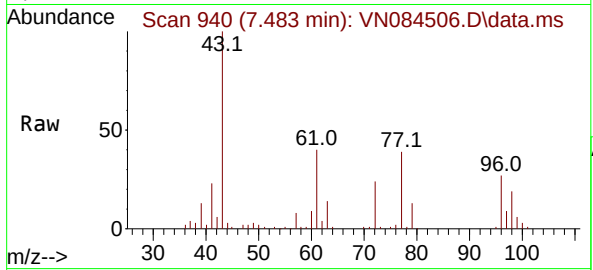
Tgt Ion:	43	Resp:	166499
Ion Ratio	Lower	Upper	
43	100		
57	8.1	6.6	9.8
72	14.2	21.3	31.9





#31
2,2-Dichloropropane
Concen: 19.197 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

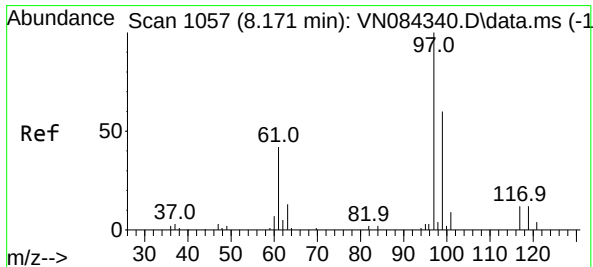
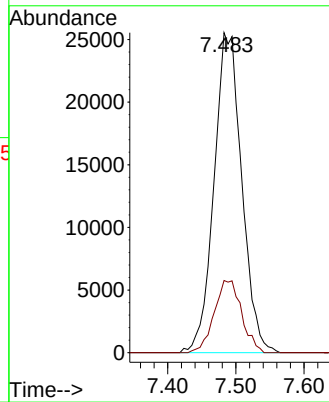
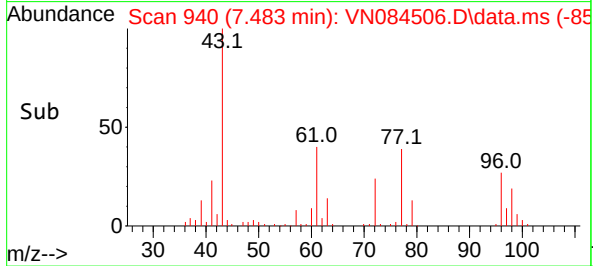
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



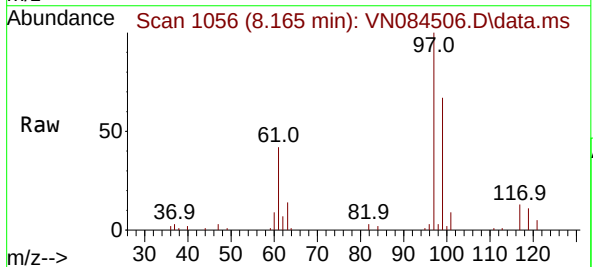
Tgt Ion: 77 Resp: 7229
Ion Ratio Lower Upper
77 100
97 22.3 11.5 17.3

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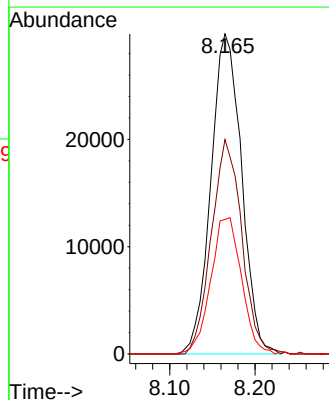
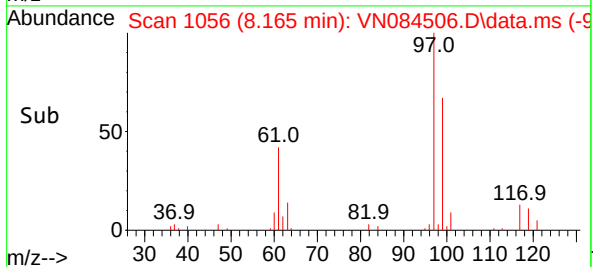
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

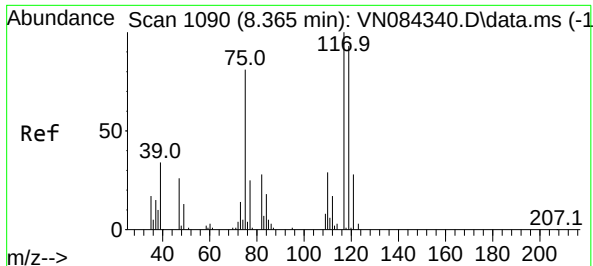


#32
1,1,1-Trichloroethane
Concen: 18.226 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04



Tgt Ion: 97 Resp: 74656
Ion Ratio Lower Upper
97 100
99 66.3 51.2 76.8
61 42.8 34.1 51.1





#33

Carbon Tetrachloride

Concen: 18.454 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion:117 Resp: 65486

Ion Ratio Lower Upper

117 100

119 95.0 74.3 111.5

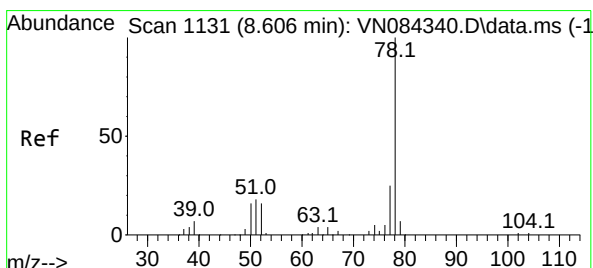
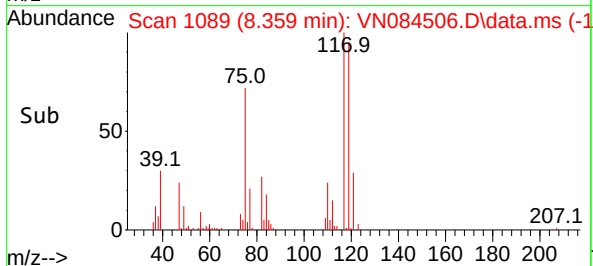
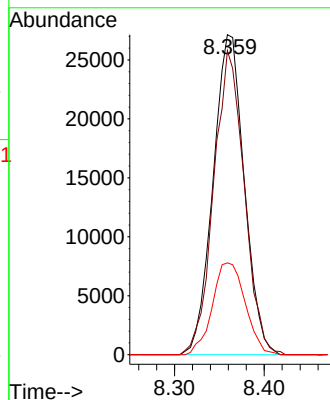
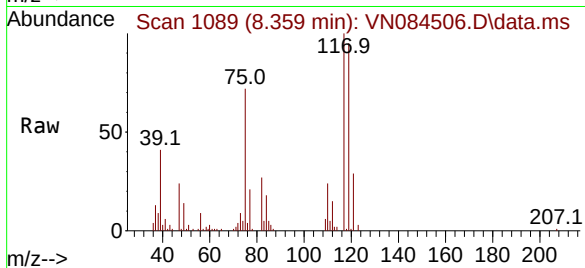
121 28.7 22.4 33.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#34

Benzene

Concen: 18.461 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

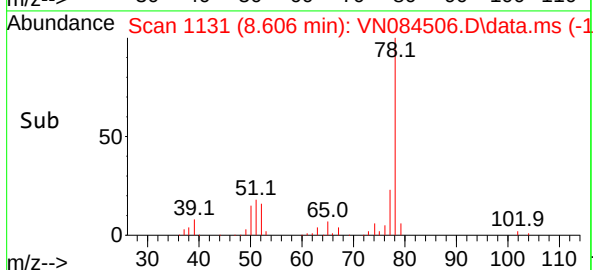
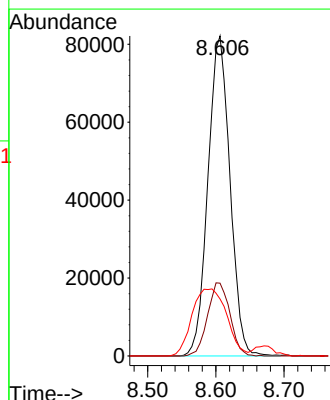
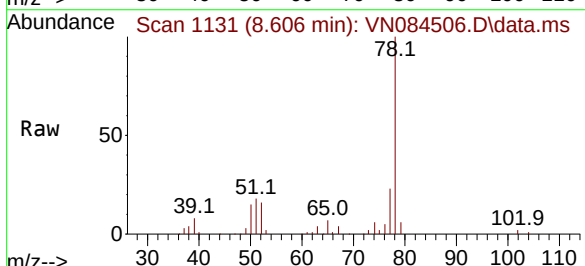
Tgt Ion: 78 Resp: 185185

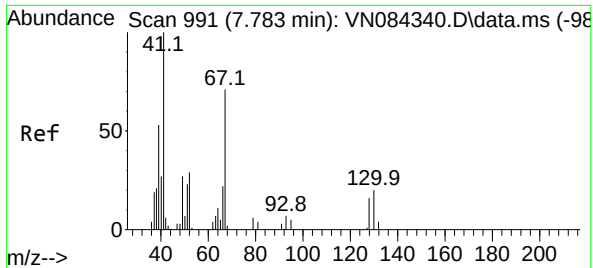
Ion Ratio Lower Upper

78 100

77 22.8 19.6 29.4

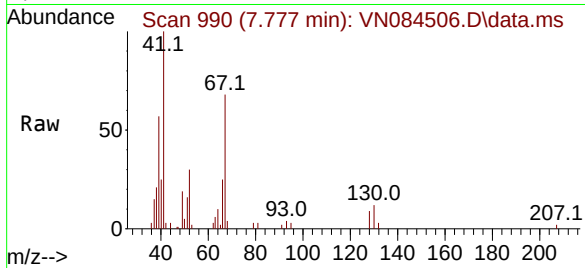
51 16.8 15.8 23.6





#35
Methacrylonitrile
Concen: 18.790 ug/l
RT: 7.777 min Scan# 991
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

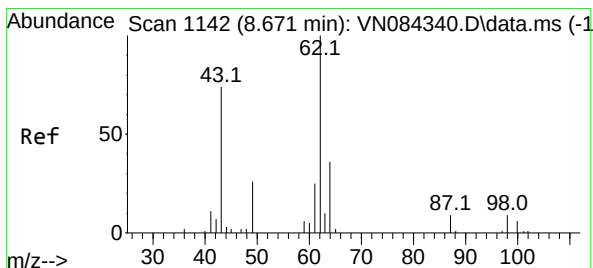
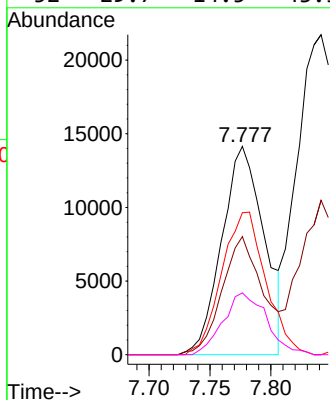
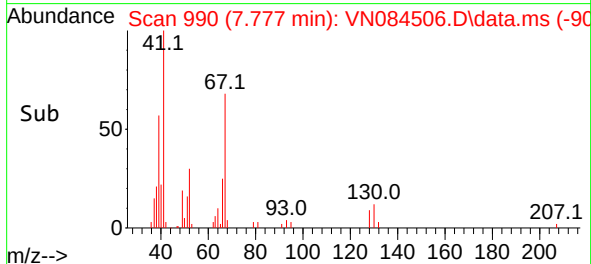
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion: 41 Resp: 3420
Ion Ratio Lower Upper
41 100
39 56.7 26.4 79.0
67 68.1 35.7 107.1
52 29.7 14.5 43.5

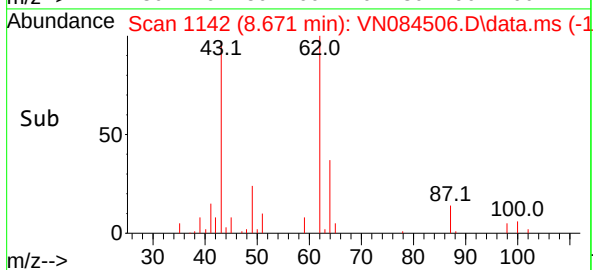
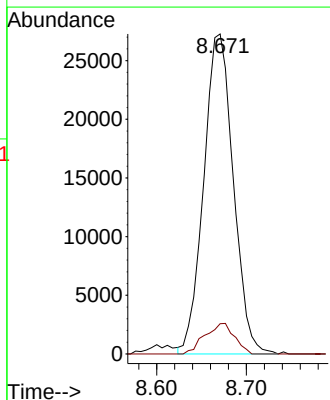
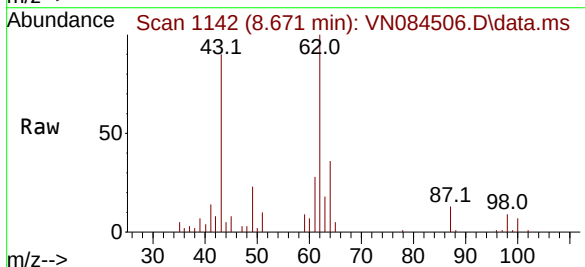
Manual Integrations
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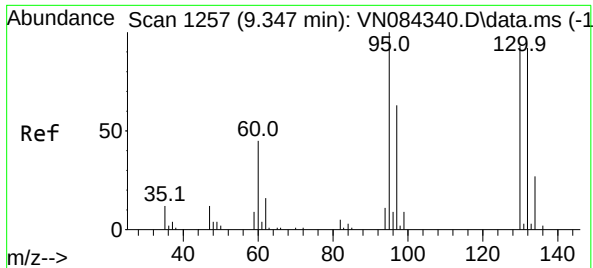
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#36
1,2-Dichloroethane
Concen: 18.697 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

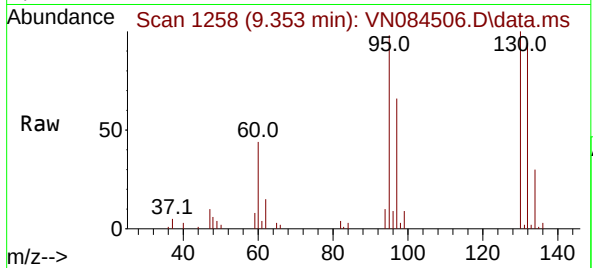
Tgt Ion: 62 Resp: 62515
Ion Ratio Lower Upper
62 100
98 9.5 7.3 10.9





#37
Trichloroethene
Concen: 18.481 ug/l
RT: 9.353 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

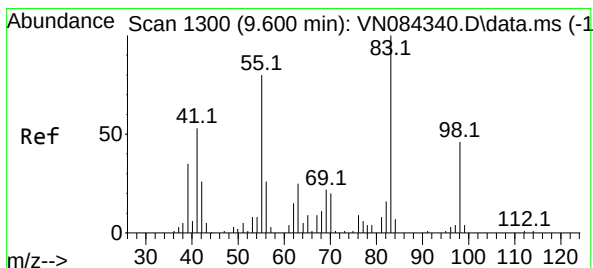
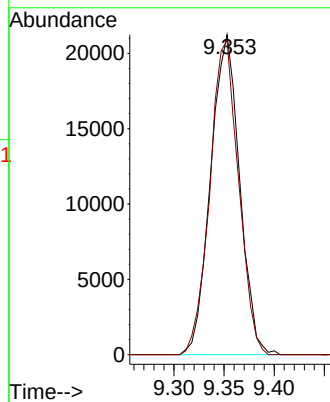
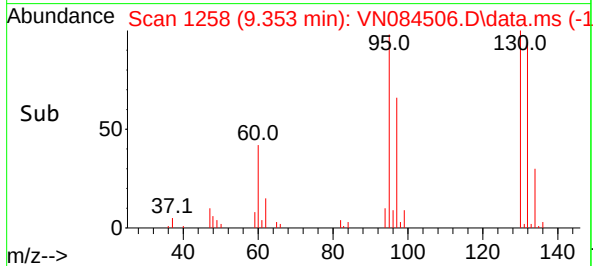
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



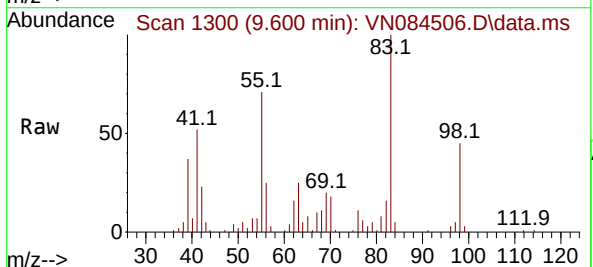
Tgt Ion:130 Resp: 42690
Ion Ratio Lower Upper
130 100
95 98.2 85.8 128.6

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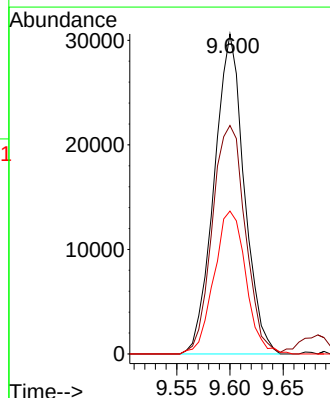
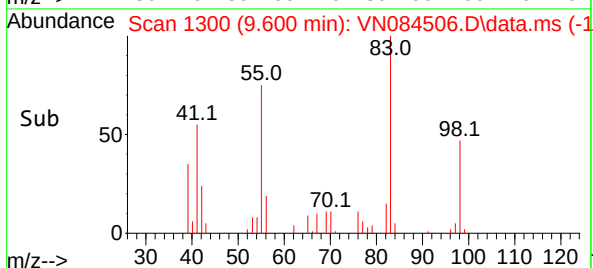
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

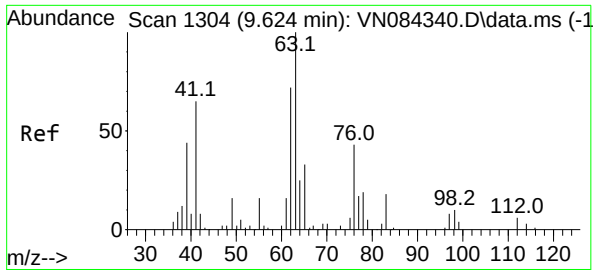


#38
Methylcyclohexane
Concen: 17.056 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04



Tgt Ion: 83 Resp: 60037
Ion Ratio Lower Upper
83 100
55 78.3 39.3 117.8
98 47.2 24.0 72.0





#39

1,2-Dichloropropane

Concen: 18.177 ug/l

RT: 9.618 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 63 Resp: 4446

Ion Ratio Lower Upper

63 100

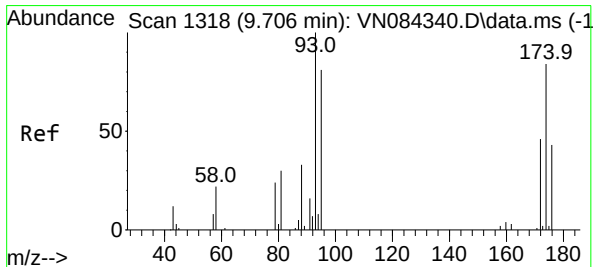
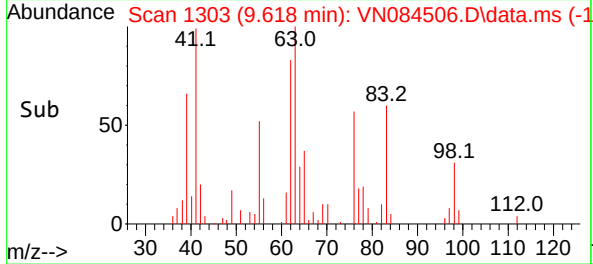
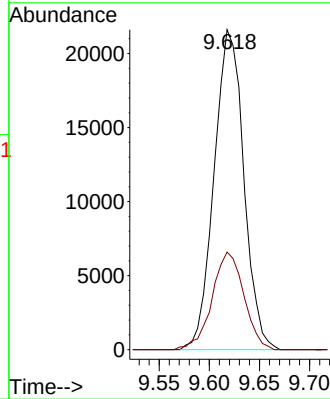
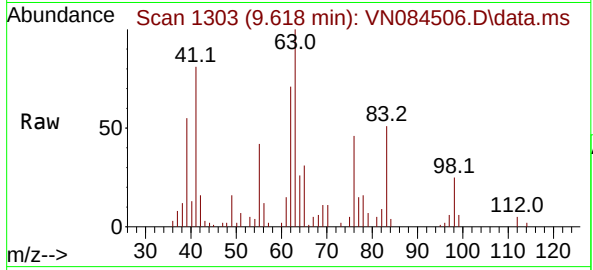
65 30.5 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#40

Dibromomethane

Concen: 18.441 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

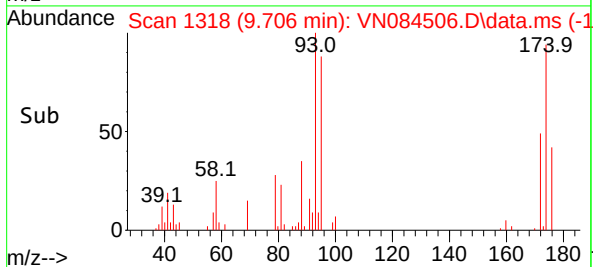
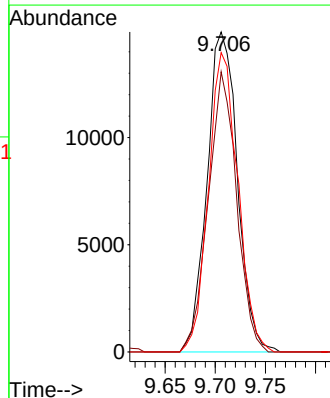
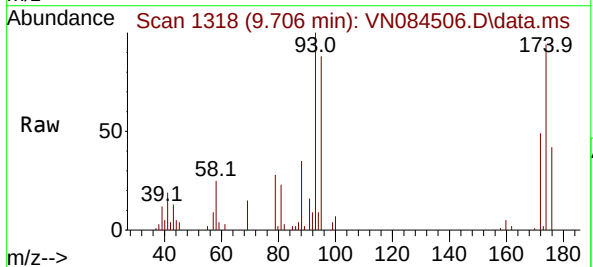
Tgt Ion: 93 Resp: 31527

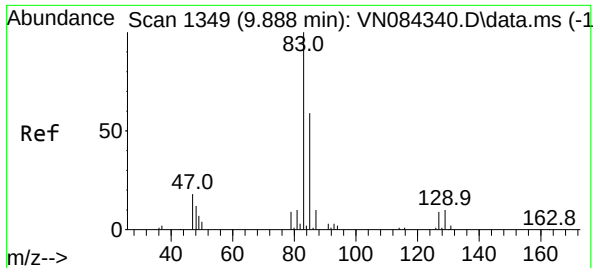
Ion Ratio Lower Upper

93 100

95 81.7 0.0 171.4

174 90.7 0.0 183.0





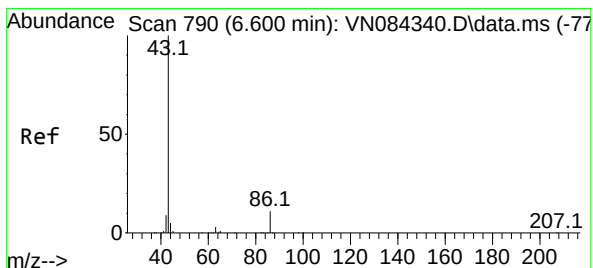
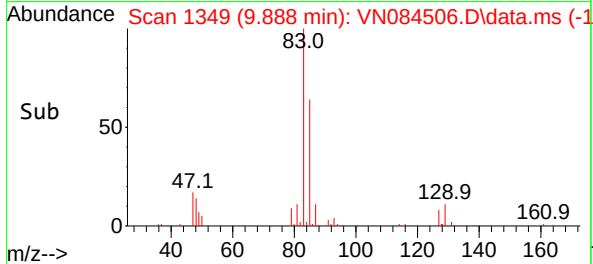
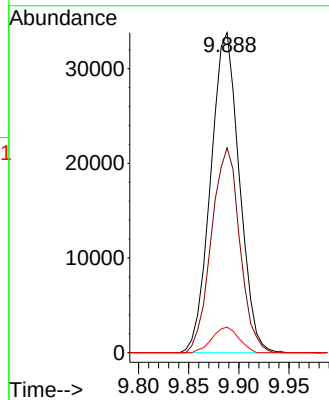
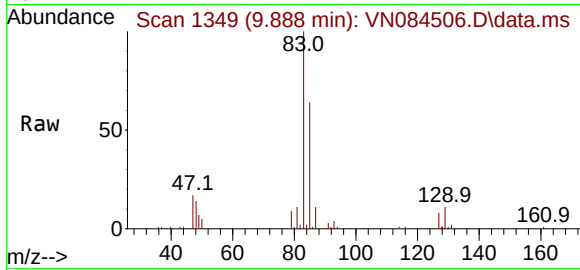
#41
Bromodichloromethane
Concen: 18.491 ug/l
RT: 9.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Tgt Ion: 83 Resp: 67112
Ion Ratio Lower Upper
83 100
85 64.0 47.1 70.7
127 8.0 7.1 10.7

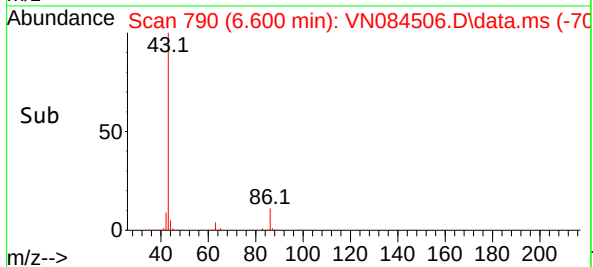
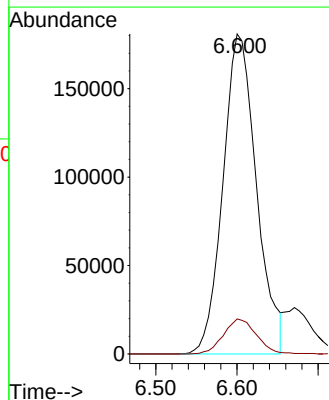
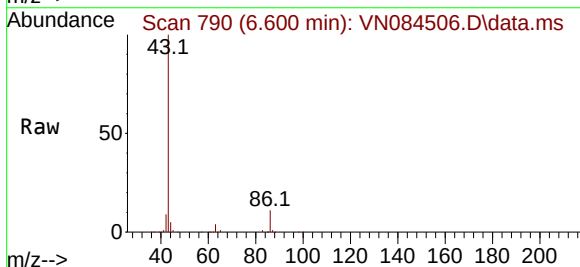
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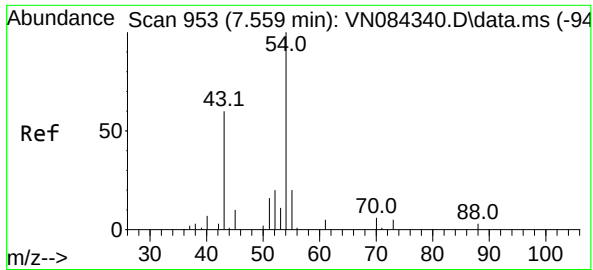
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#42
Vinyl Acetate
Concen: 87.481 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 43 Resp: 519106
Ion Ratio Lower Upper
43 100
86 10.8 8.5 12.7





#43

Ethyl Acetate

Concen: 17.652 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 43 Resp: 59398

Ion Ratio Lower Upper

43 100

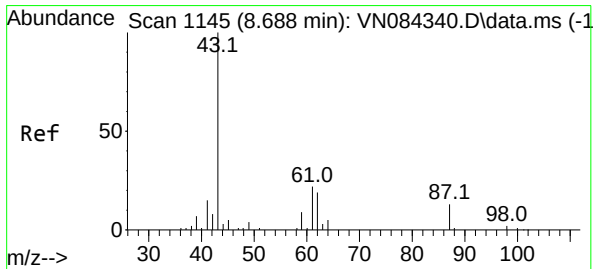
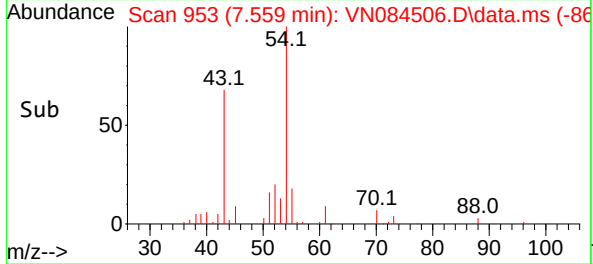
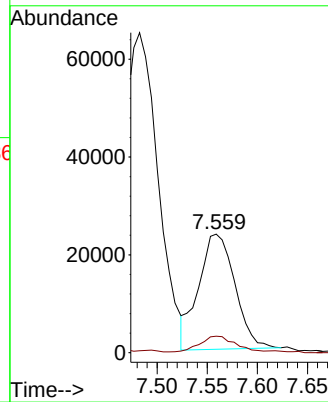
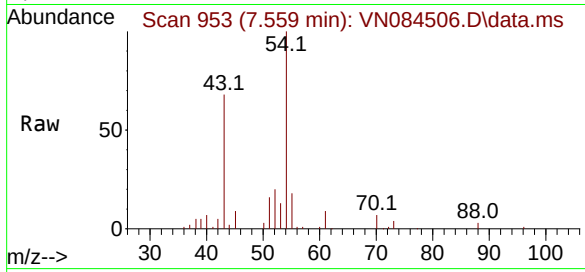
45 14.6 10.6 16.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#44

Isopropyl Acetate

Concen: 19.794 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN084506.D

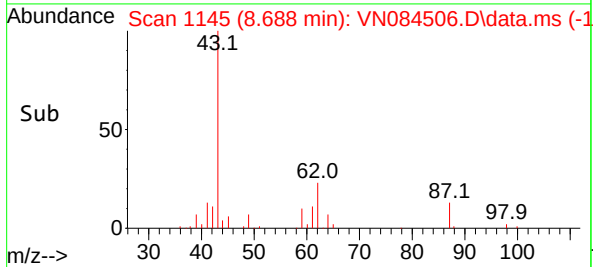
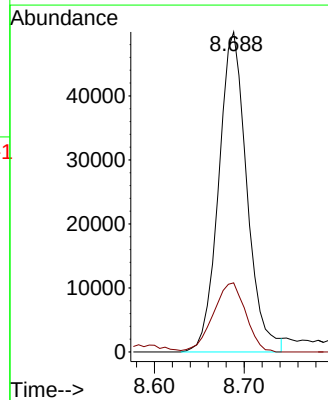
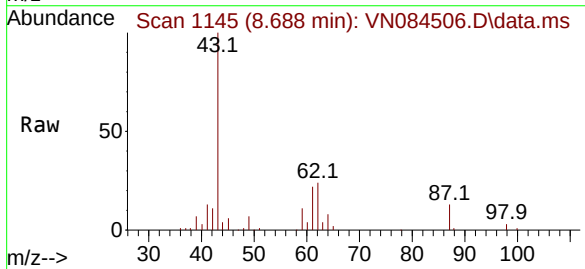
Acq: 25 Oct 2024 11:04

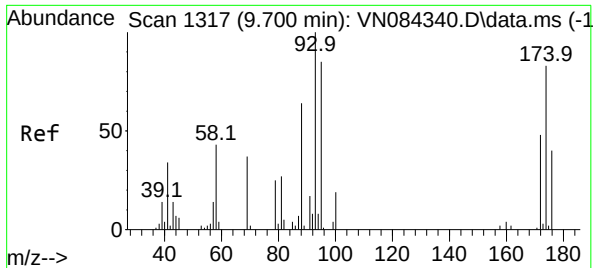
Tgt Ion: 43 Resp: 109016

Ion Ratio Lower Upper

43 100

61 24.9 21.4 32.2





#45

1,4-Dioxane

Concen: 354.009 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 88 Resp: 17570

Ion Ratio Lower Upper

88 100

43 30.1 22.4 33.6

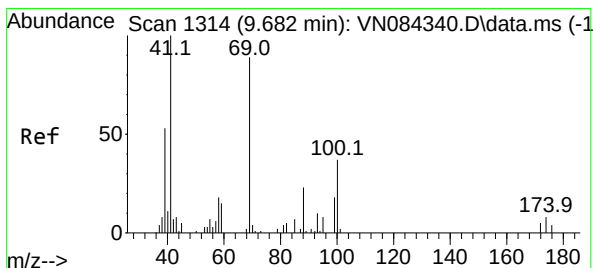
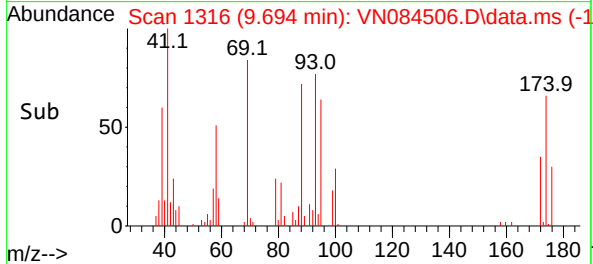
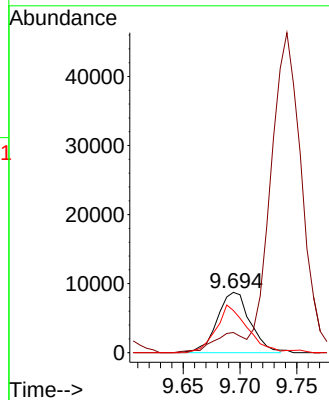
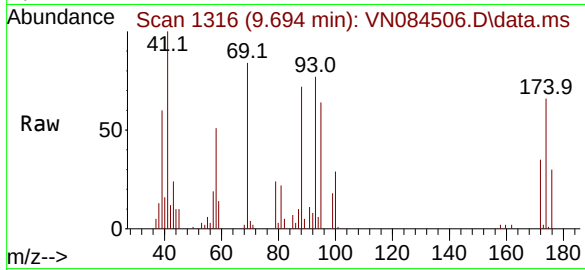
58 74.1 59.7 89.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#46

Methyl methacrylate

Concen: 17.961 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

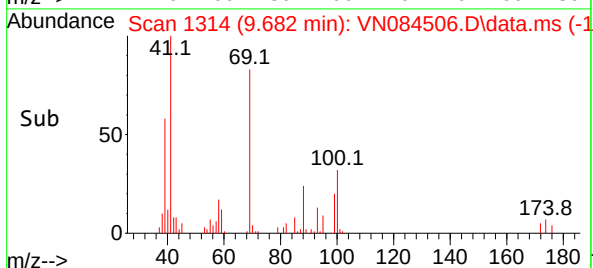
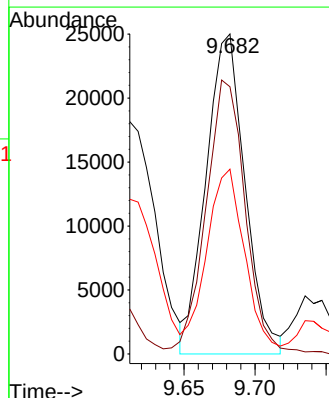
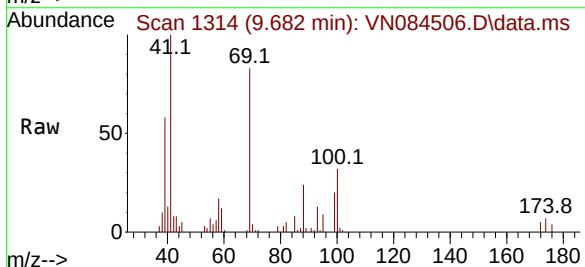
Tgt Ion: 41 Resp: 47794

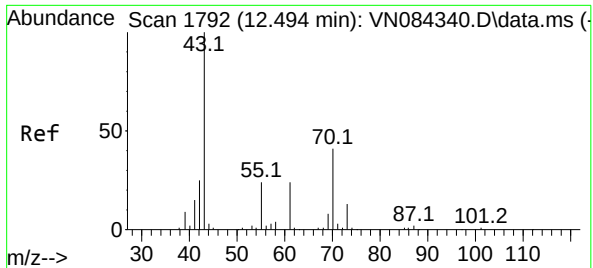
Ion Ratio Lower Upper

41 100

69 86.4 42.6 128.0

39 58.5 27.5 82.4





#47

n-amy1 Acetate

Concen: 17.937 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 43 Resp: 8787

Ion Ratio Lower Upper

43 100

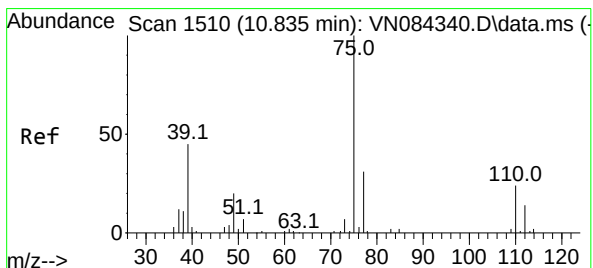
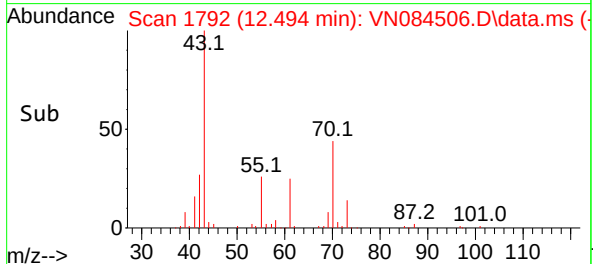
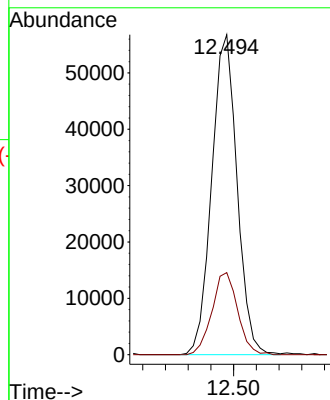
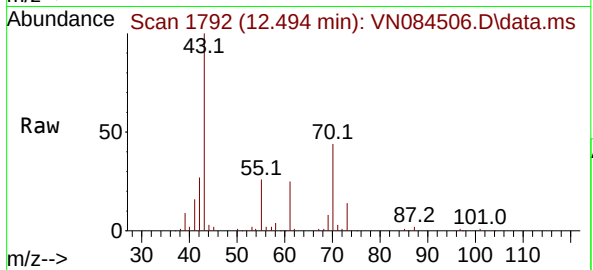
55 26.0 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#48

t-1,3-Dichloropropene

Concen: 17.805 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN084506.D

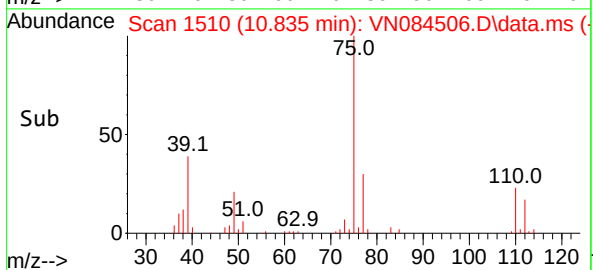
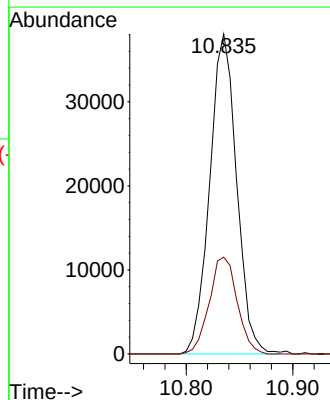
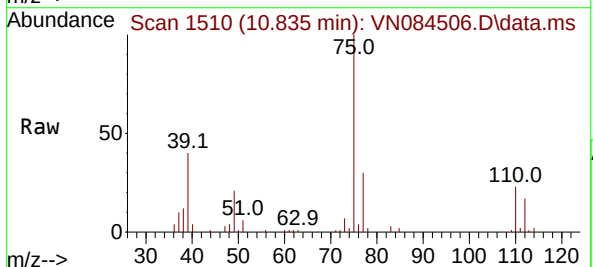
Acq: 25 Oct 2024 11:04

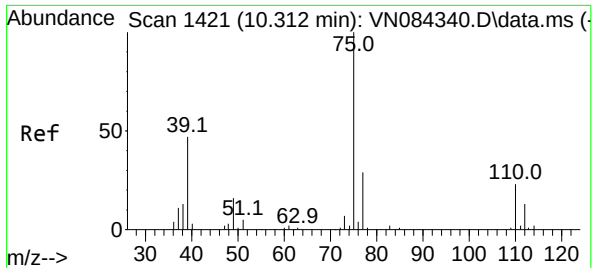
Tgt Ion: 75 Resp: 66779

Ion Ratio Lower Upper

75 100

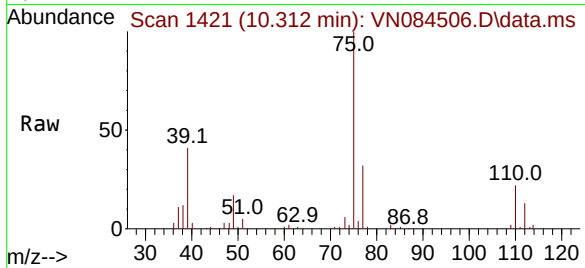
77 30.2 24.6 37.0





#49
cis-1,3-Dichloropropene
Concen: 18.565 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

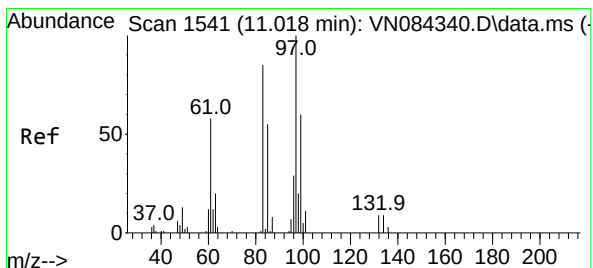
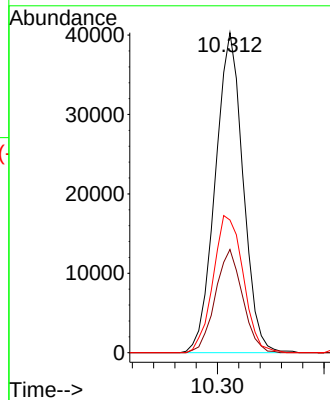
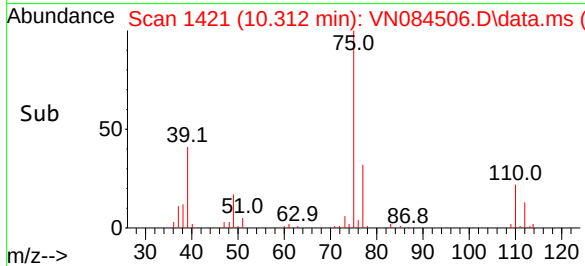
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion: 75 Resp: 7297
Ion Ratio Lower Upper
75 100
77 32.3 22.9 34.3
39 41.5 37.4 56.2

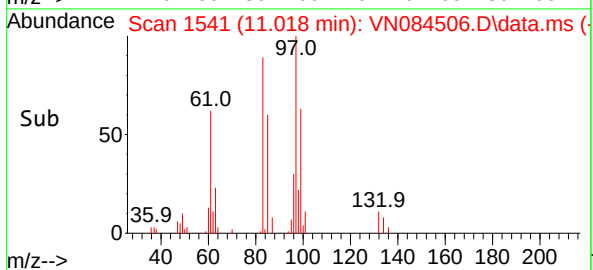
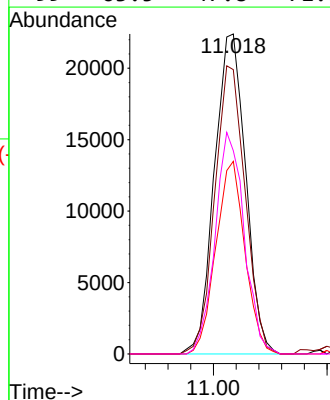
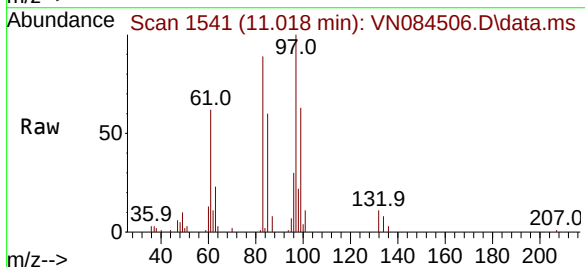
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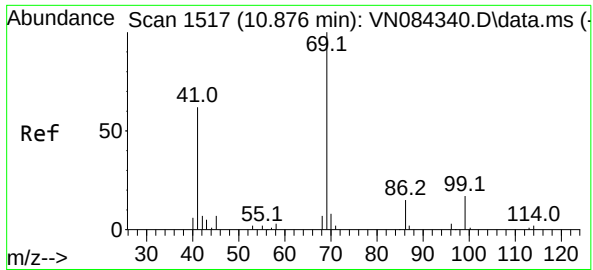
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#50
1,1,2-Trichloroethane
Concen: 18.584 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

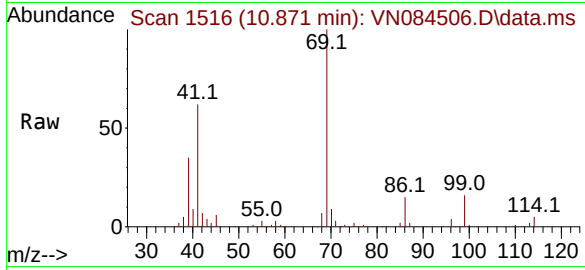
Tgt Ion: 97 Resp: 42706
Ion Ratio Lower Upper
97 100
83 88.9 67.8 101.8
85 60.2 44.2 66.2
99 63.5 47.8 71.8





#51
Ethyl methacrylate
Concen: 18.314 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

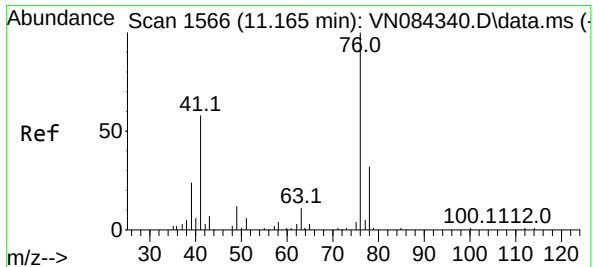
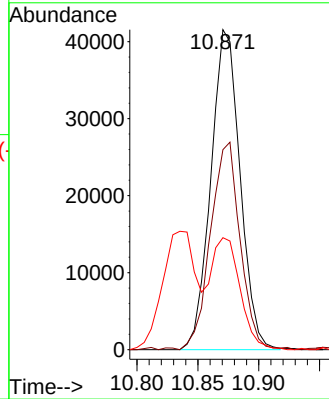
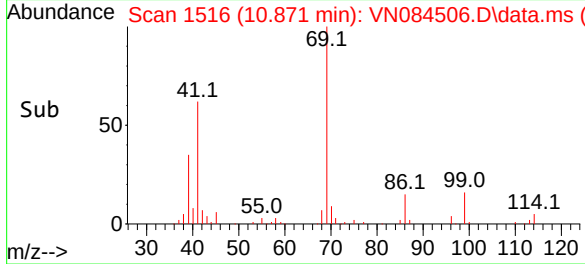
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion: 69 Resp: 69514
Ion Ratio Lower Upper
69 100
41 62.5 30.9 92.7
39 34.5 16.6 49.7

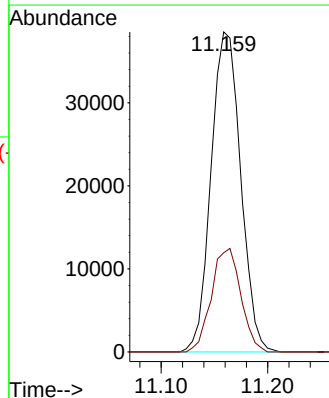
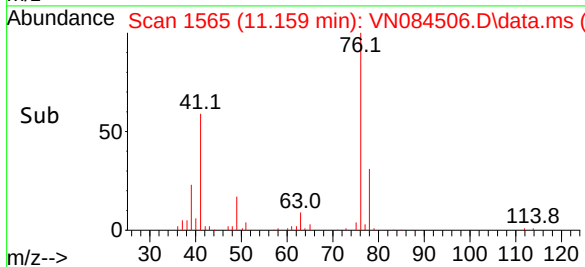
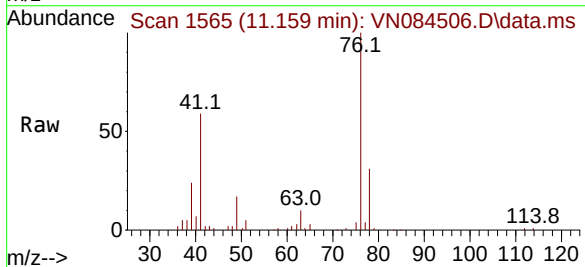
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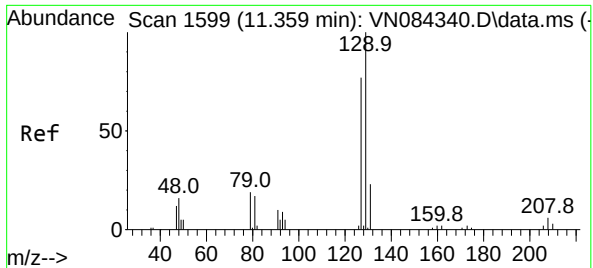
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#52
1,3-Dichloropropane
Concen: 18.534 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

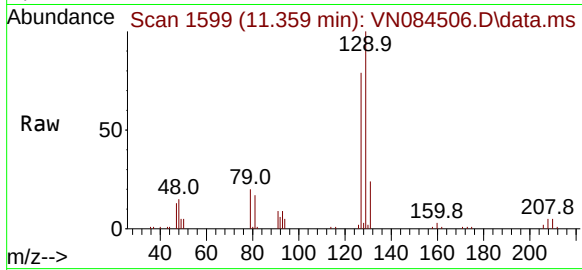
Tgt Ion: 76 Resp: 74470
Ion Ratio Lower Upper
76 100
78 32.1 0.0 64.2





#53
Dibromochloromethane
Concen: 18.294 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

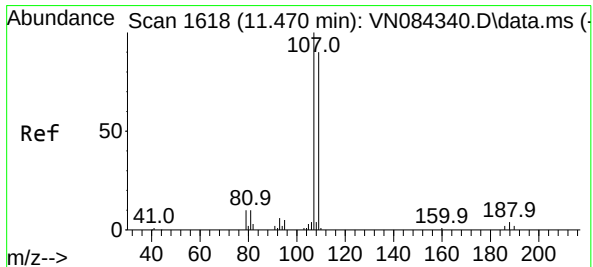
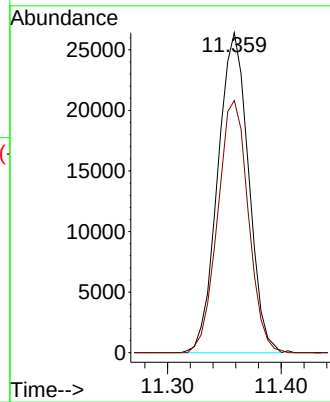
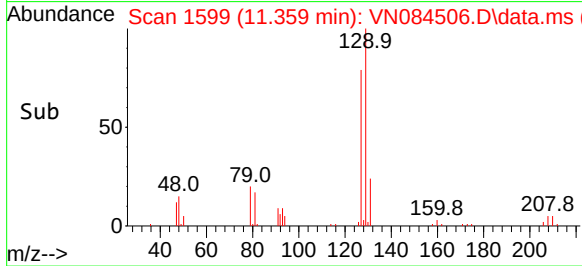
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion:129 Resp: 49660
Ion Ratio Lower Upper
129 100
127 78.6 38.5 115.5

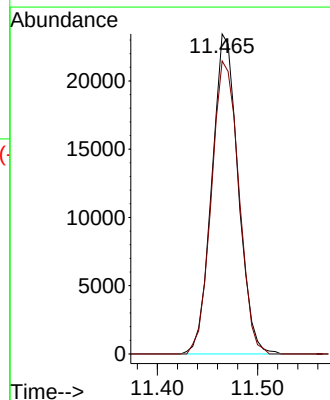
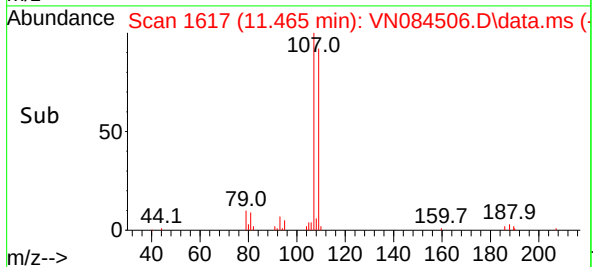
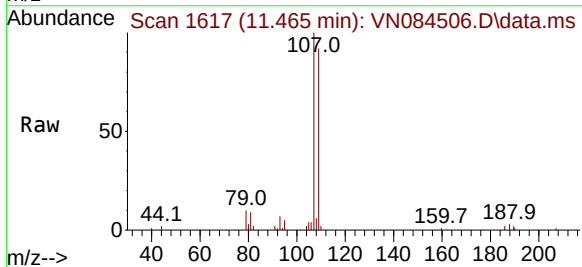
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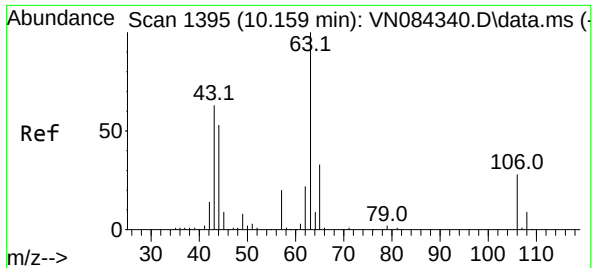
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#54
1,2-Dibromoethane
Concen: 17.974 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

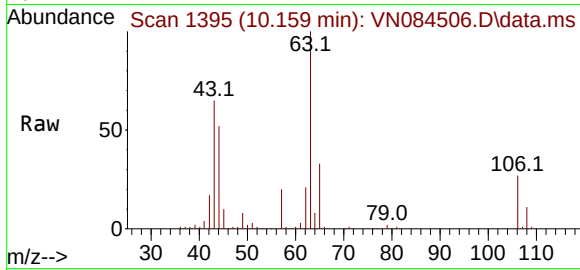
Tgt Ion:107 Resp: 42517
Ion Ratio Lower Upper
107 100
109 95.5 73.8 110.6





#55
2-Chloroethyl vinyl ether
Concen: 88.579 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

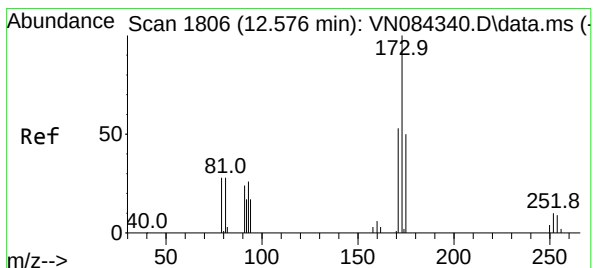
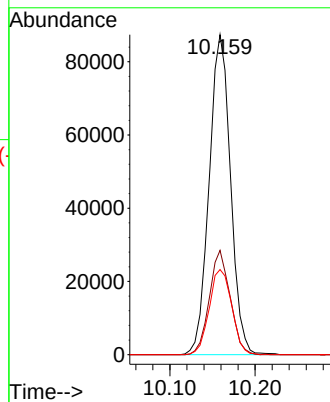
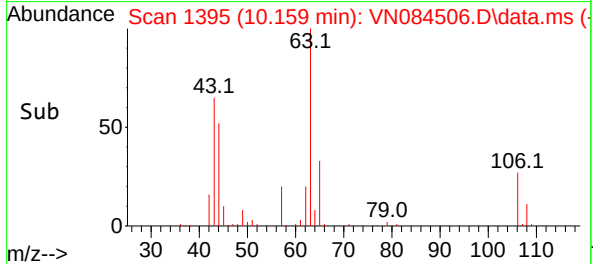
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion: 63 Resp: 15249
Ion Ratio Lower Upper
63 100
65 31.6 25.6 38.4
106 28.0 21.6 32.4

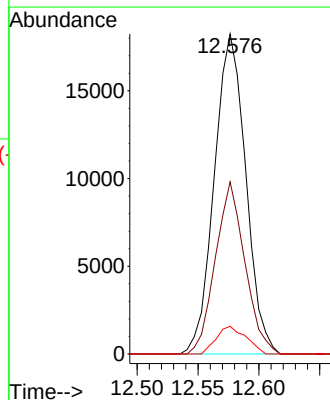
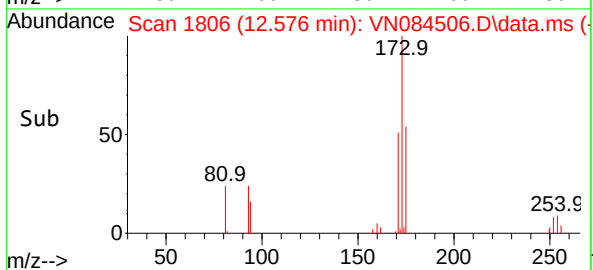
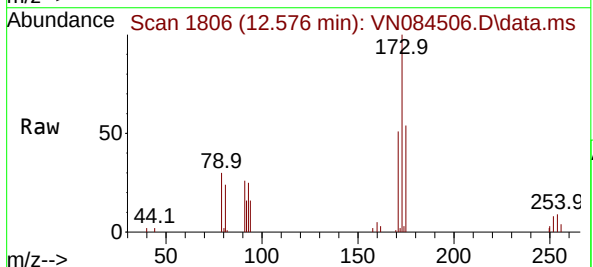
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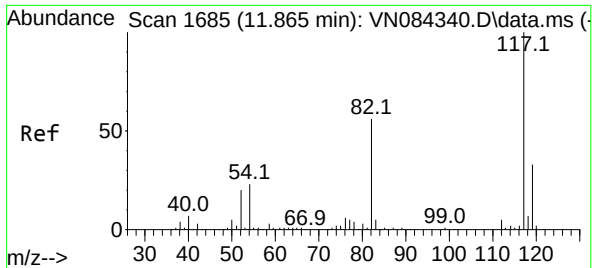
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#56
Bromoform
Concen: 18.203 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

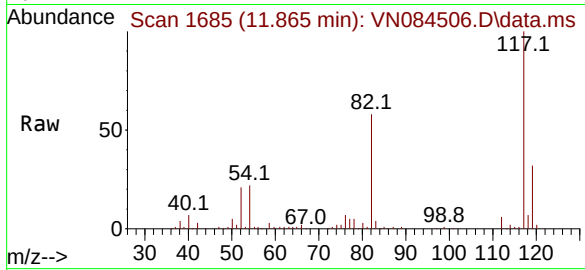
Tgt Ion:173 Resp: 32774
Ion Ratio Lower Upper
173 100
175 50.5 39.4 59.2
254 8.1 6.8 10.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

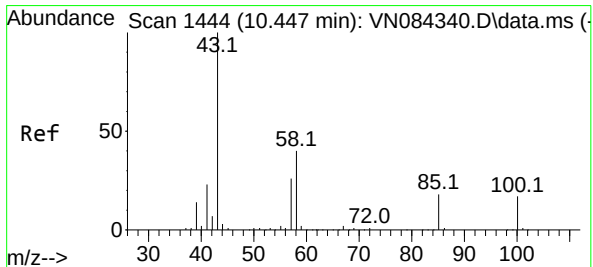
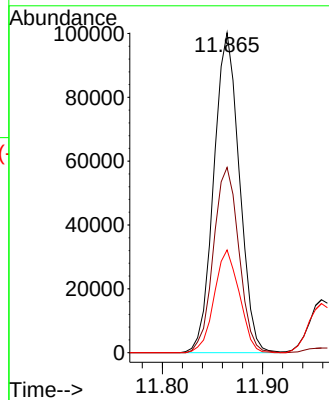
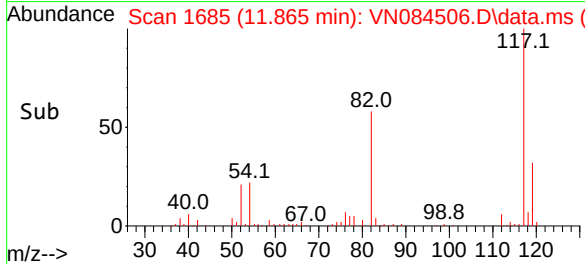
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion: 117 Resp: 177752
Ion Ratio Lower Upper
117 100
82 57.7 46.2 69.4
119 31.6 25.4 38.2

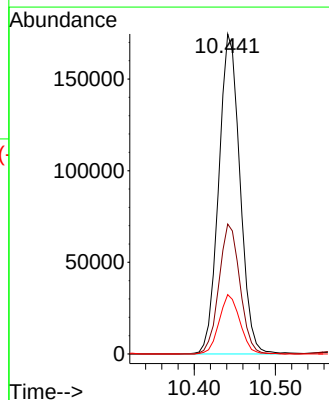
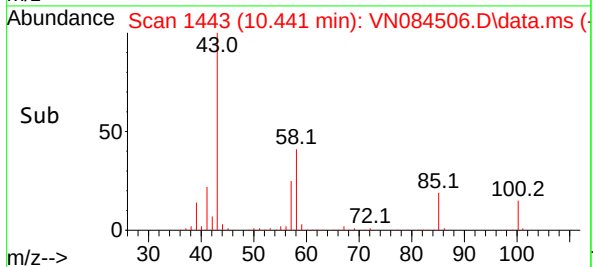
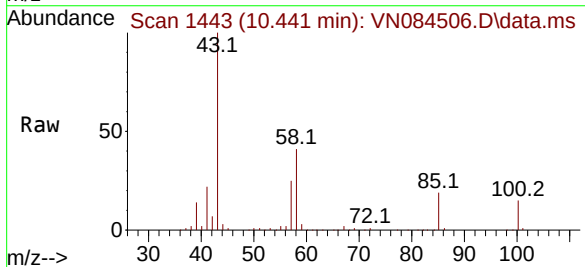
Manual Integrations
APPROVED

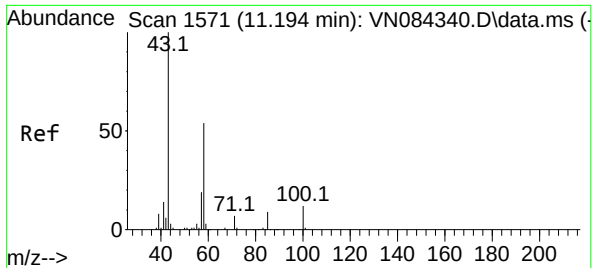
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#58
4-Methyl-2-Pentanone
Concen: 95.920 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

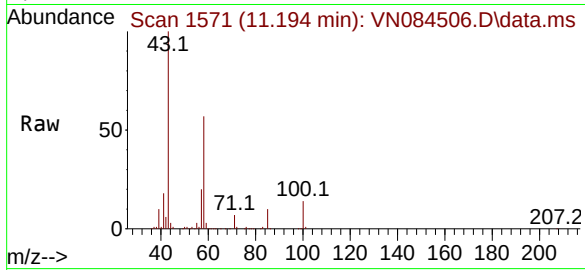
Tgt Ion: 43 Resp: 317615
Ion Ratio Lower Upper
43 100
58 40.1 31.9 47.9
85 18.1 14.6 22.0





#59
2-Hexanone
Concen: 97.299 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

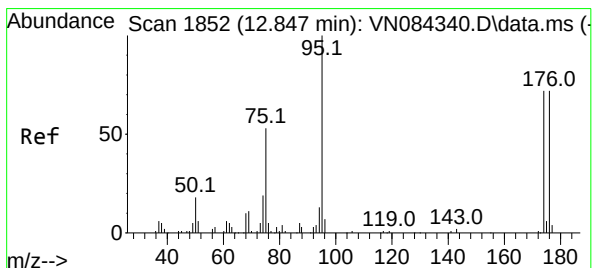
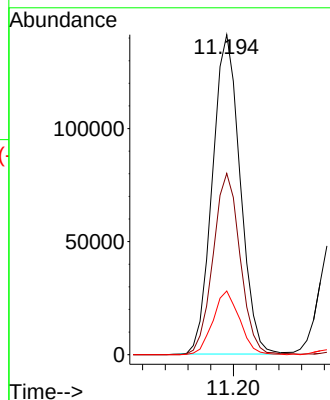
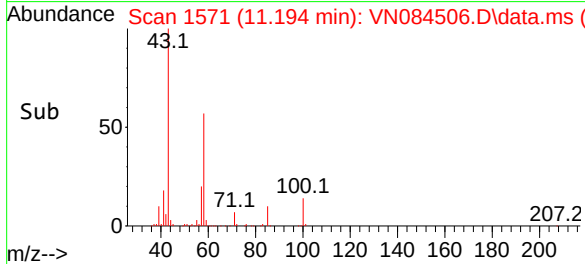
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion: 43 Resp: 239404
Ion Ratio Lower Upper
43 100
58 55.4 44.0 66.0
57 19.2 15.4 23.2

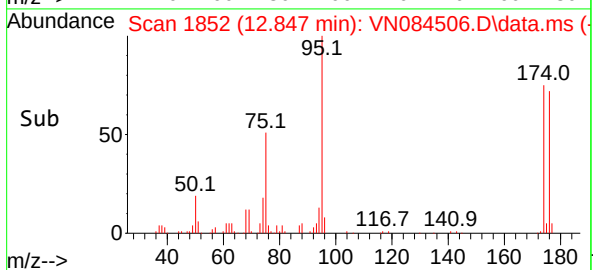
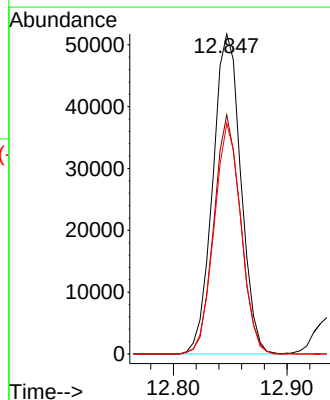
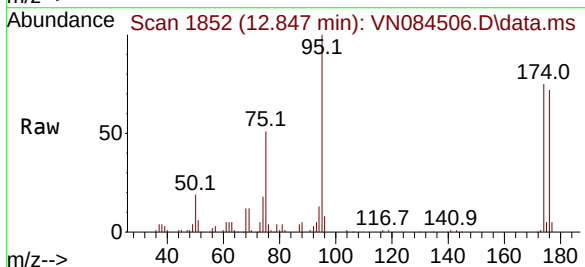
Manual Integrations
APPROVED

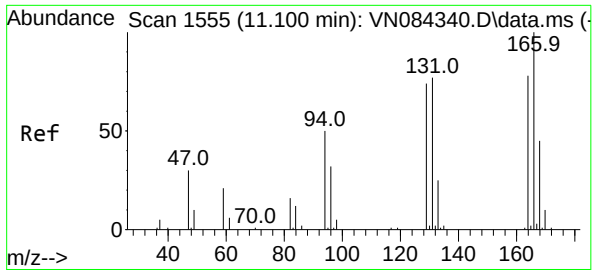
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#60
4-Bromofluorobenzene
Concen: 30.291 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

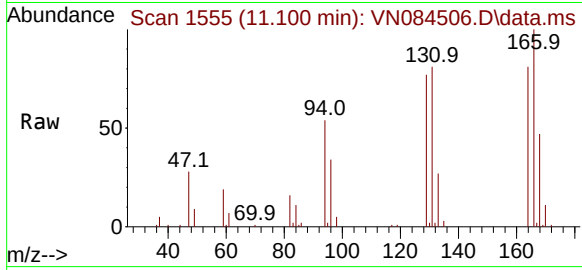
Tgt Ion: 95 Resp: 88864
Ion Ratio Lower Upper
95 100
174 71.0 58.2 87.2
176 69.4 56.4 84.6





#61
Tetrachloroethene
Concen: 18.541 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

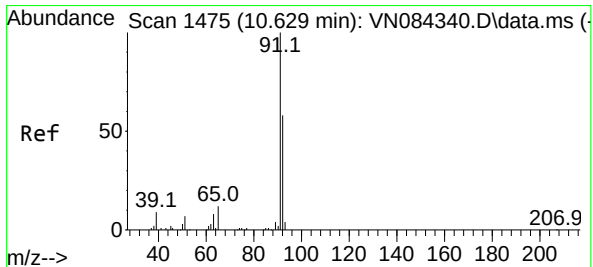
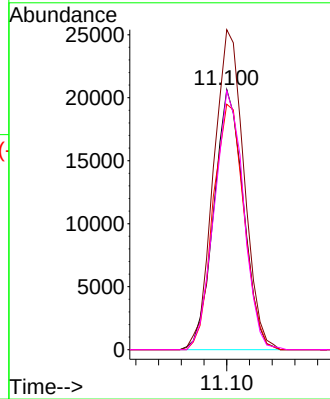
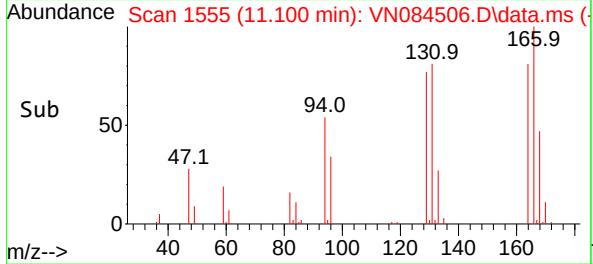
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



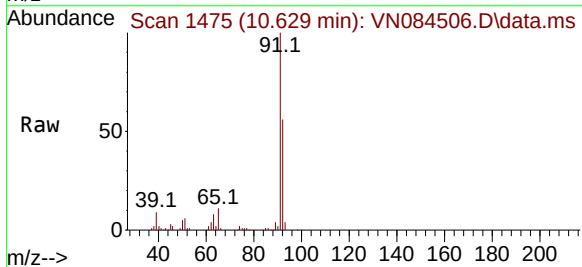
Tgt Ion:164 Resp: 37279
Ion Ratio Lower Upper
164 100
166 123.0 102.5 153.7
129 94.4 75.7 113.5
131 99.5 78.2 117.4

Manual Integrations
APPROVED

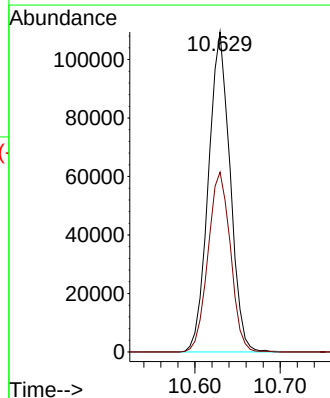
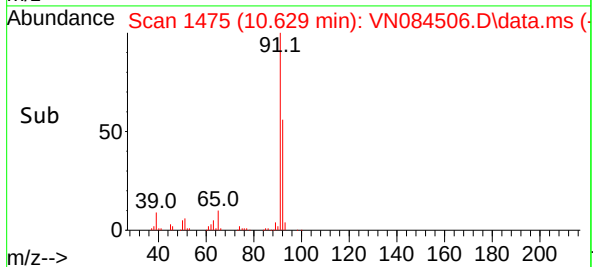
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

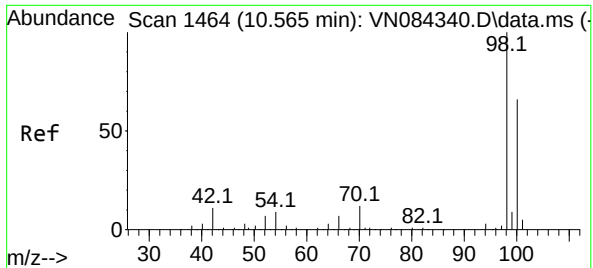


#62
Toluene
Concen: 18.564 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04



Tgt Ion: 91 Resp: 193173
Ion Ratio Lower Upper
91 100
92 58.0 47.2 70.8





#63

Toluene-d8

Concen: 29.532 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 98 Resp: 243180

Ion Ratio Lower Upper

98 100

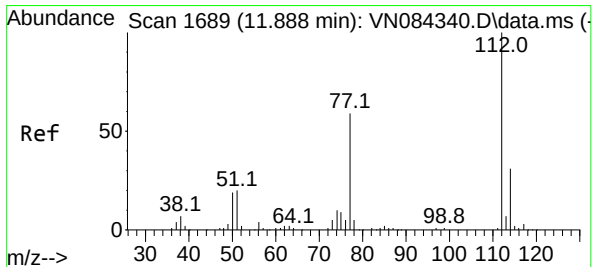
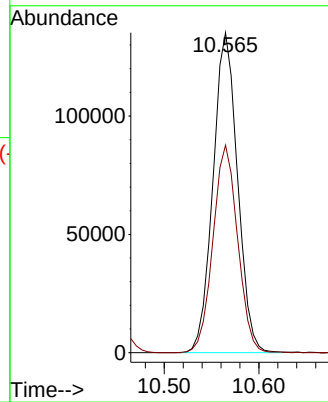
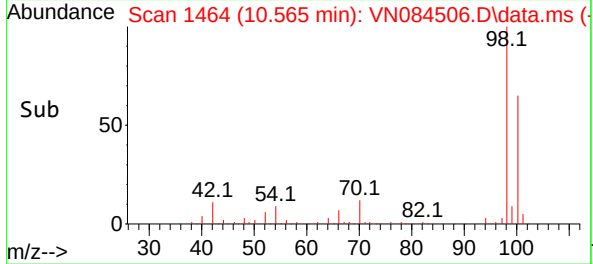
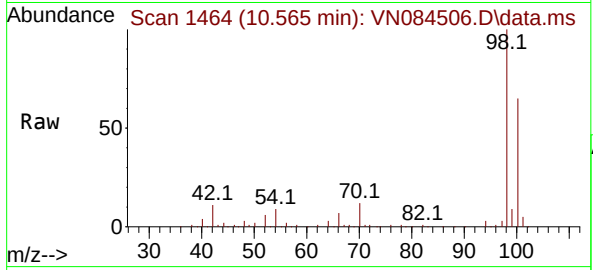
100 65.2 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#64

Chlorobenzene

Concen: 18.532 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN084506.D

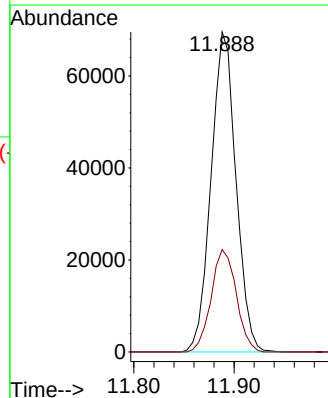
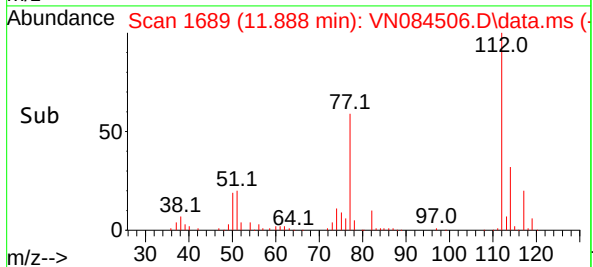
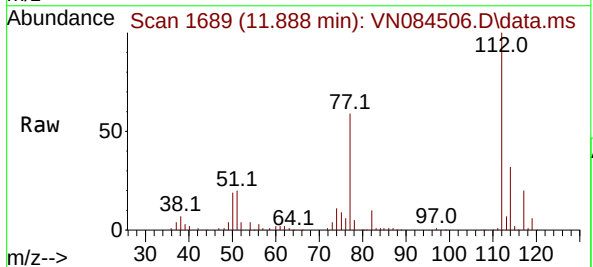
Acq: 25 Oct 2024 11:04

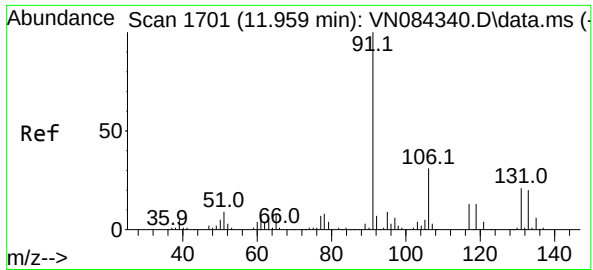
Tgt Ion:112 Resp: 120005

Ion Ratio Lower Upper

112 100

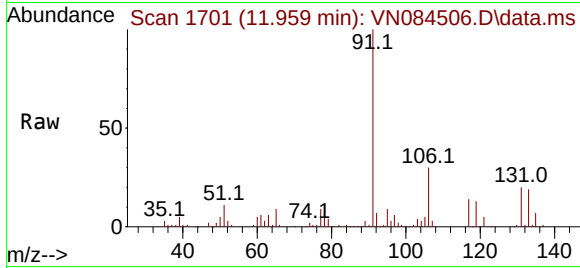
114 32.0 25.1 37.7





#65
1,1,1,2-Tetrachloroethane
Concen: 18.860 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

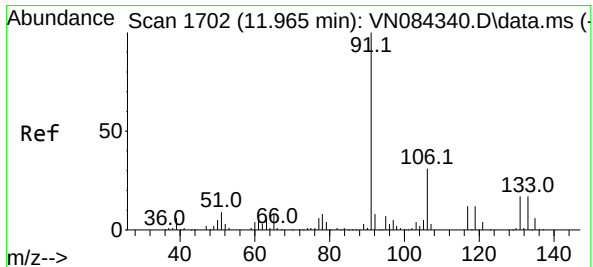
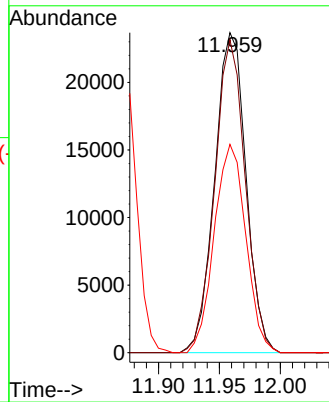
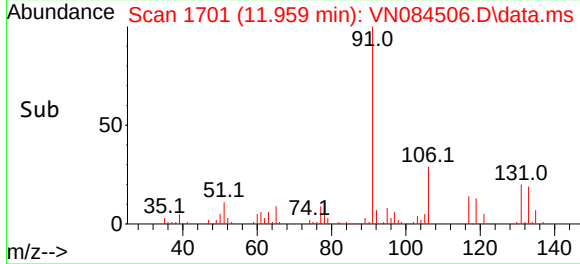
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion:131 Resp: 42428
Ion Ratio Lower Upper
131 100
133 95.8 0.0 190.4
119 65.7 0.0 130.0

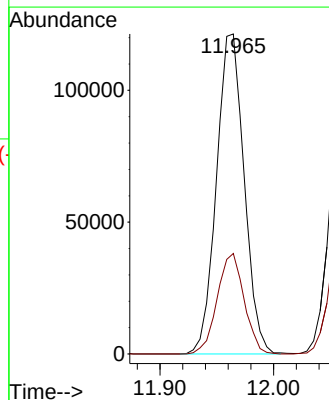
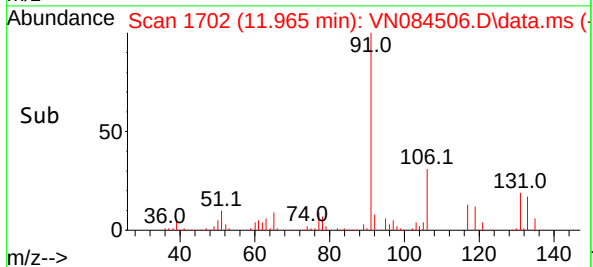
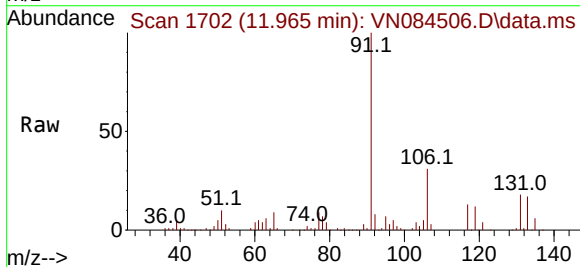
Manual Integrations
APPROVED

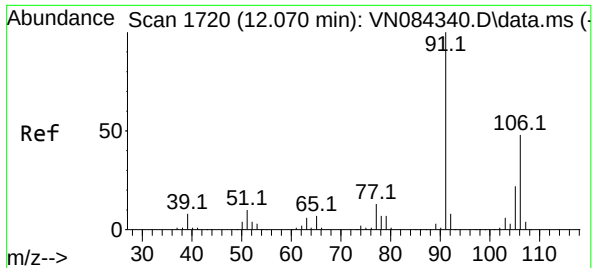
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#66
Ethyl Benzene
Concen: 18.185 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 91 Resp: 205594
Ion Ratio Lower Upper
91 100
106 31.4 25.2 37.8





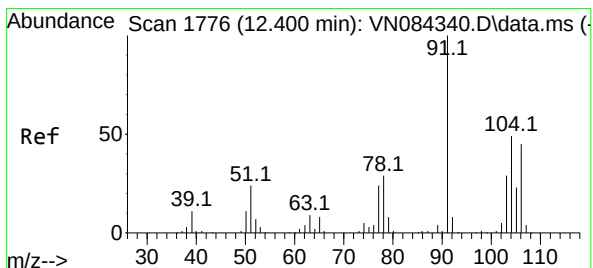
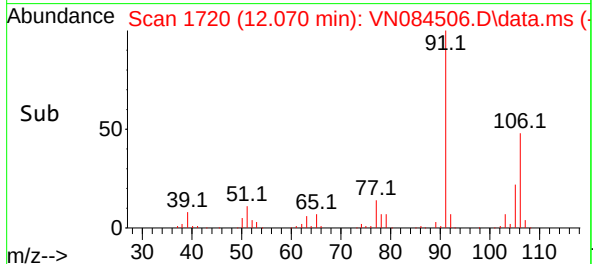
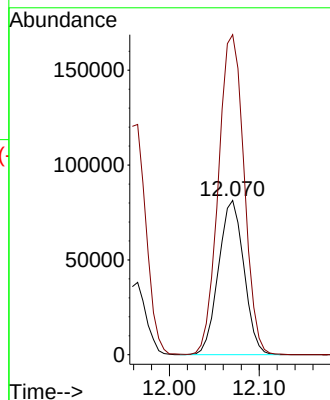
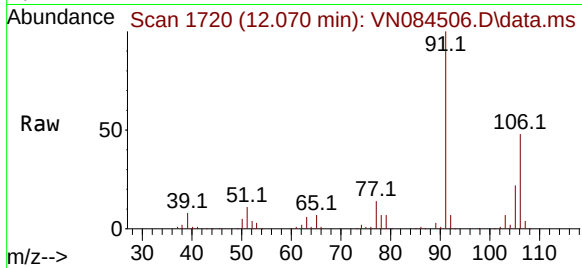
#67
m/p-Xylenes
Concen: 37.286 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Tgt Ion:106 Resp: 15991
Ion Ratio Lower Upper
106 100
91 209.4 166.7 250.1

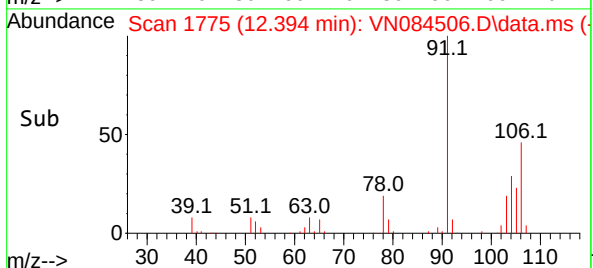
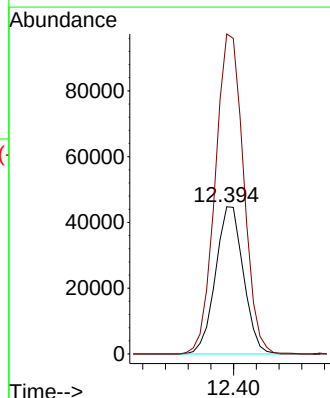
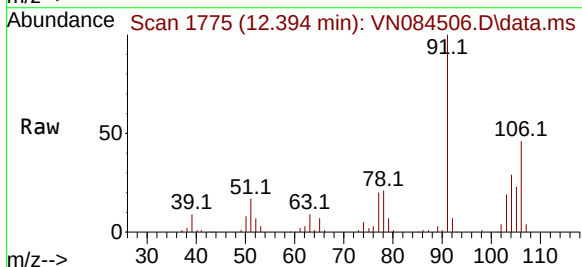
Manual Integrations
APPROVED

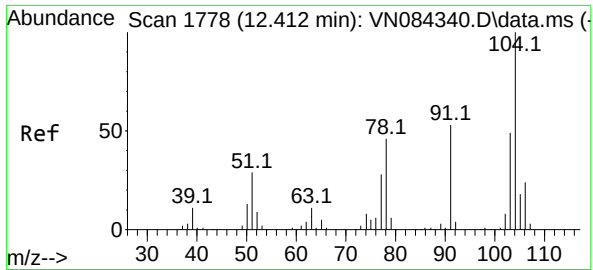
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#68
o-Xylene
Concen: 18.463 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion:106 Resp: 76327
Ion Ratio Lower Upper
106 100
91 220.7 110.9 332.9





#69

Styrene

Concen: 18.321 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

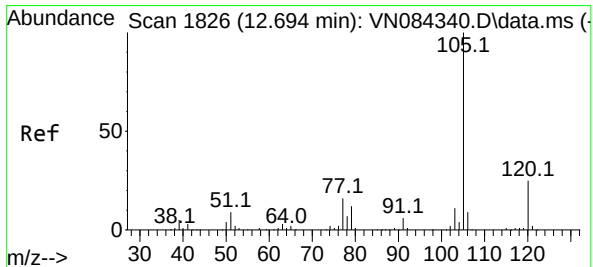
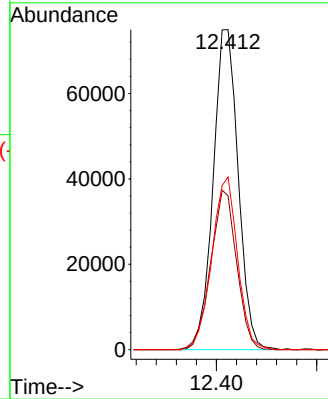
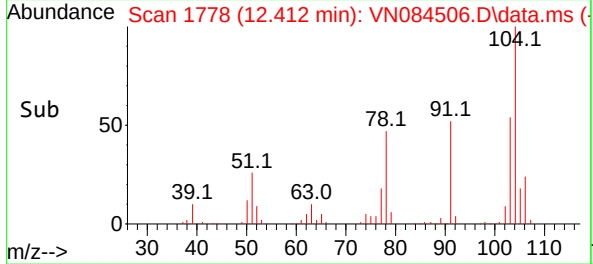
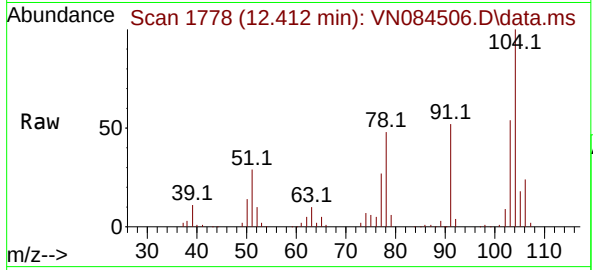
VN1025WBSD01

Tgt Ion:104	Resp:	130010
Ion Ratio	Lower	Upper
104	100	
78	51.6	41.6 62.4
103	55.4	44.4 66.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#70

Isopropylbenzene

Concen: 18.487 ug/l

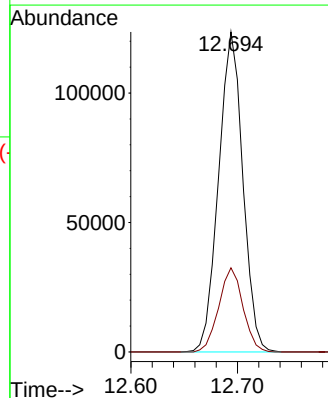
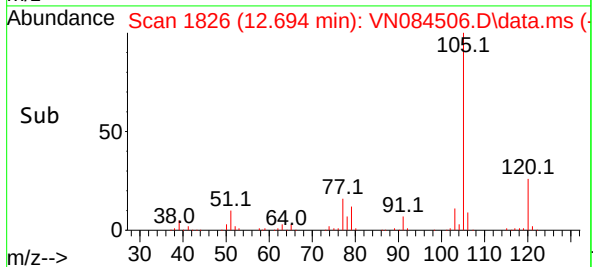
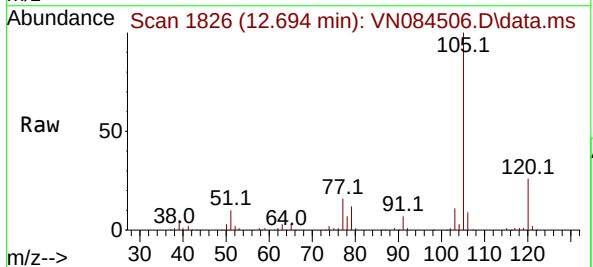
RT: 12.694 min Scan# 1826

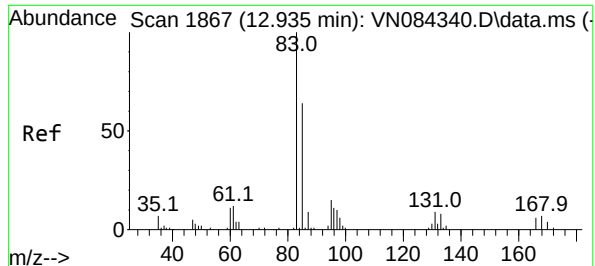
Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Tgt Ion:105	Resp:	195104
Ion Ratio	Lower	Upper
105	100	
120	26.2	17.4 32.4





#71

1,1,2,2-Tetrachloroethane

Concen: 19.140 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD01

Tgt Ion: 83 Resp: 62480

Ion Ratio Lower Upper

83 100

131 9.3 5.1 15.3

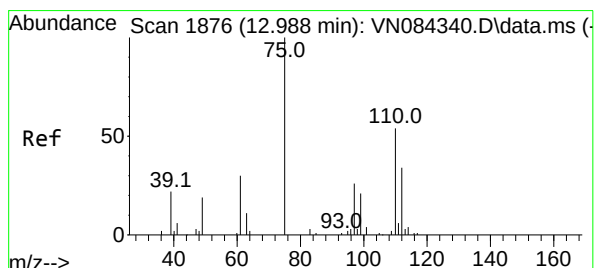
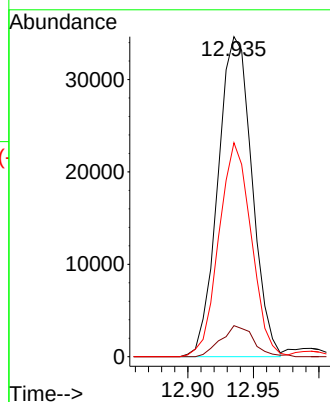
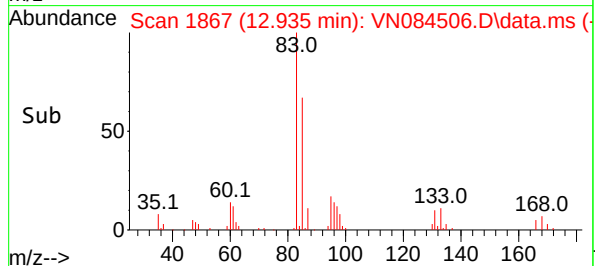
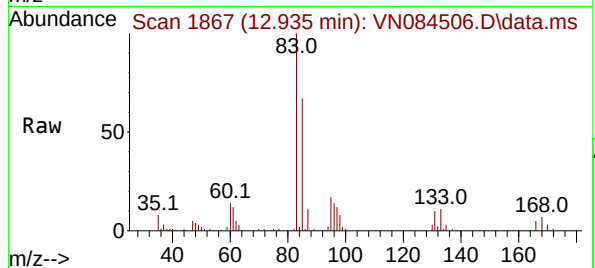
85 63.6 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024

Supervised By :Mahesh Dadoda 10/28/2024



#72

1,2,3-Trichloropropane

Concen: 21.282 ug/l m

RT: 12.994 min Scan# 1877

Delta R.T. 0.006 min

Lab File: VN084506.D

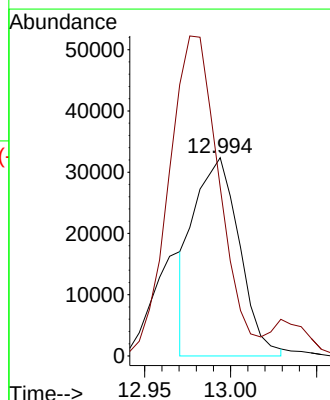
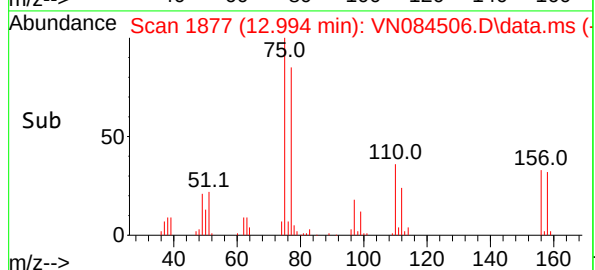
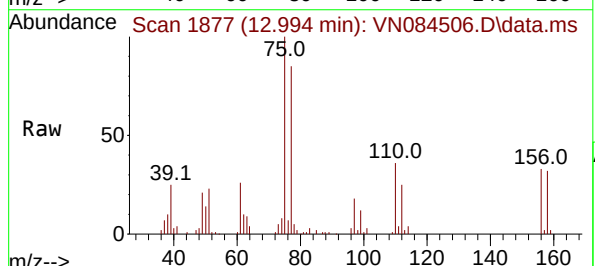
Acq: 25 Oct 2024 11:04

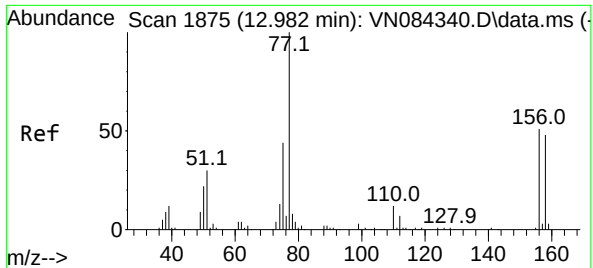
Tgt Ion: 75 Resp: 59504

Ion Ratio Lower Upper

75 100

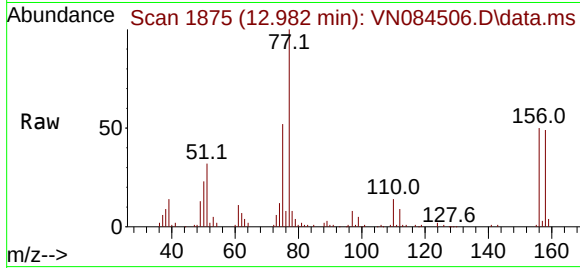
77 179.7 0.0 414.0





#73
Bromobenzene
Concen: 18.224 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

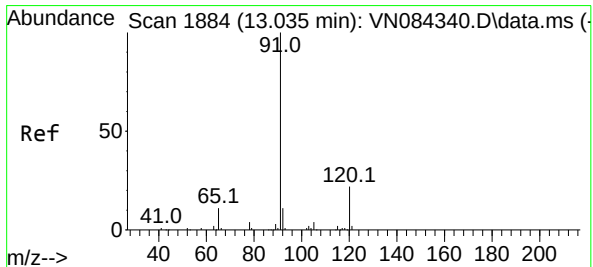
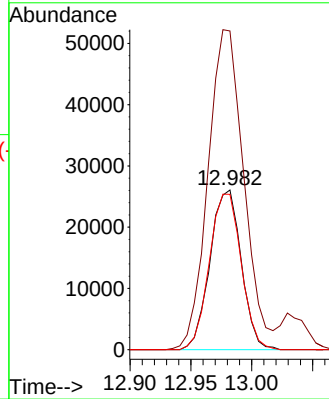
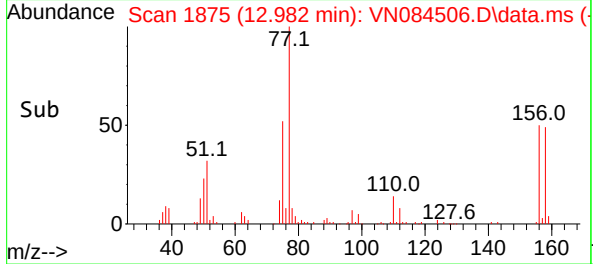
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion:156 Resp: 46579
Ion Ratio Lower Upper
156 100
77 229.5 0.0 451.0
158 99.6 0.0 194.6

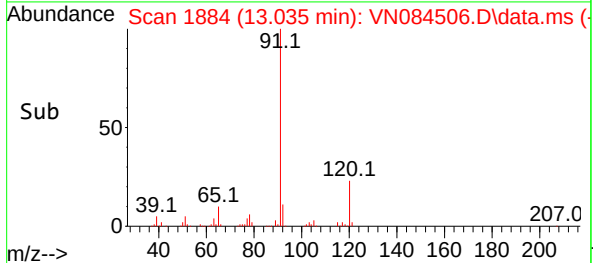
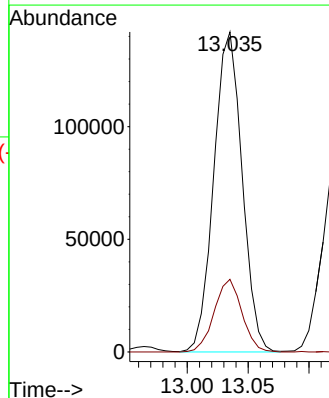
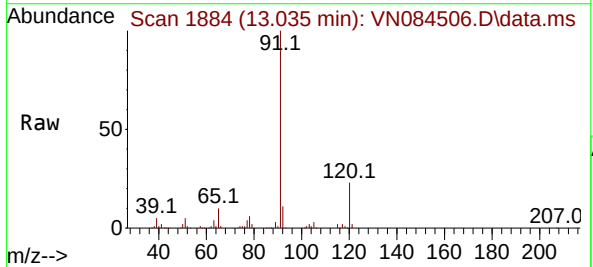
Manual Integrations
APPROVED

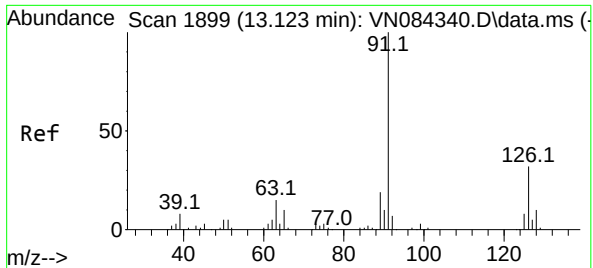
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#74
n-propylbenzene
Concen: 18.253 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion: 91 Resp: 229550
Ion Ratio Lower Upper
91 100
120 22.2 0.0 43.2





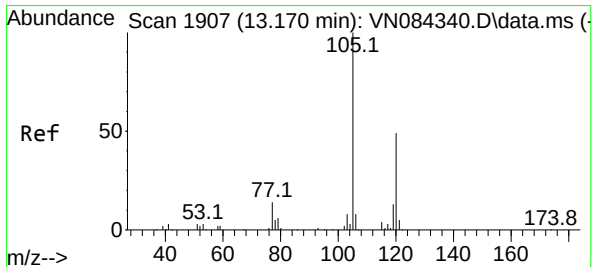
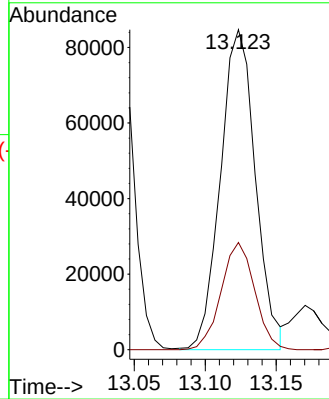
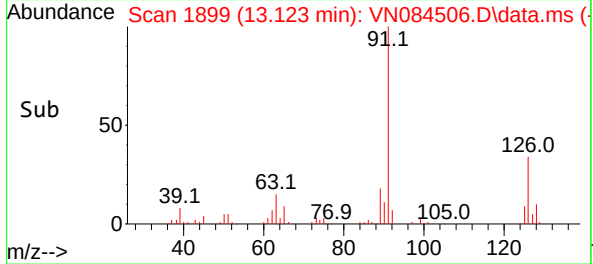
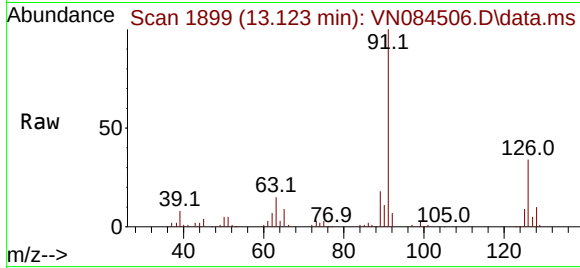
#75
2-Chlorotoluene
Concen: 18.580 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01

Tgt Ion: 91 Resp: 145197
Ion Ratio Lower Upper
91 100
126 32.0 0.0 64.0

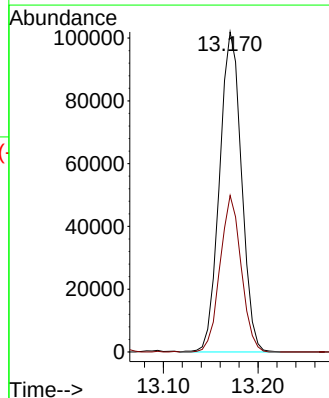
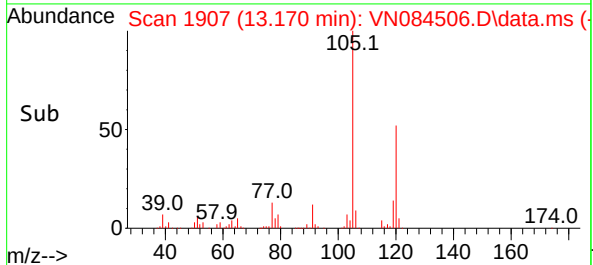
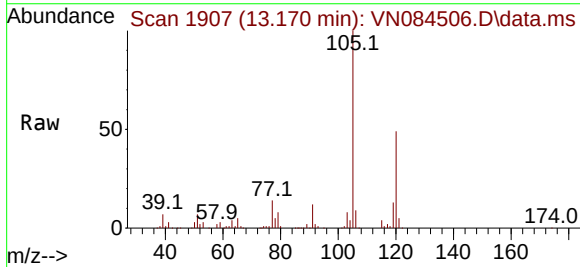
Manual Integrations
APPROVED

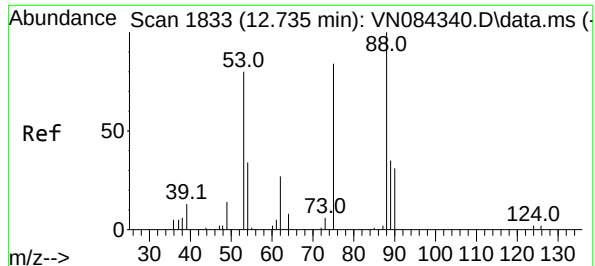
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#76
1,3,5-Trimethylbenzene
Concen: 18.518 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion:105 Resp: 164553
Ion Ratio Lower Upper
105 100
120 47.0 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 18.017 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

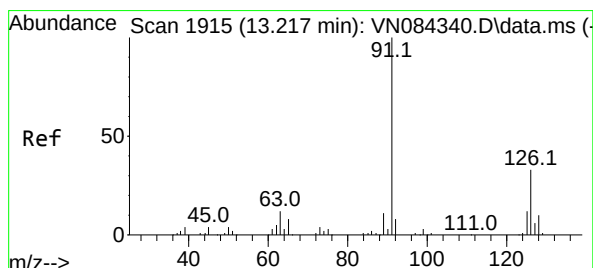
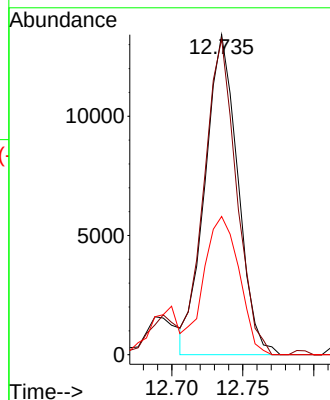
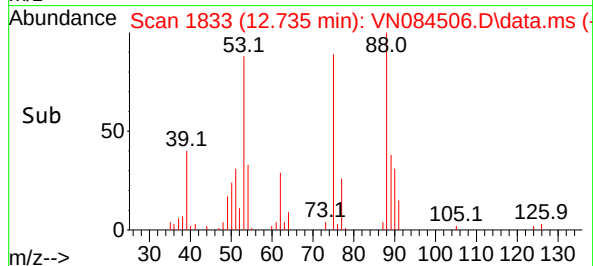
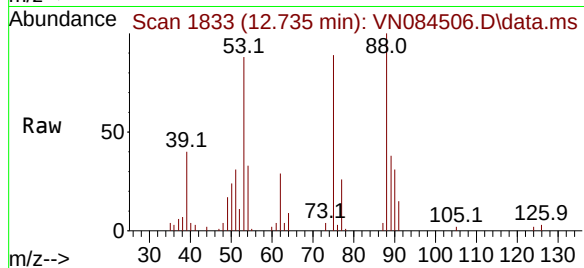
VN1025WBSD01

Tgt Ion:	75	Resp:	2152
Ion	Ratio	Lower	Upper
75	100		
53	98.7	47.3	142.0
89	43.2	22.9	68.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#78

4-Chlorotoluene

Concen: 18.332 ug/l

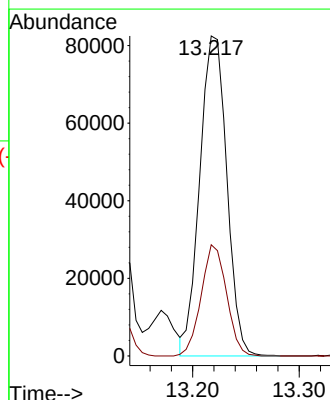
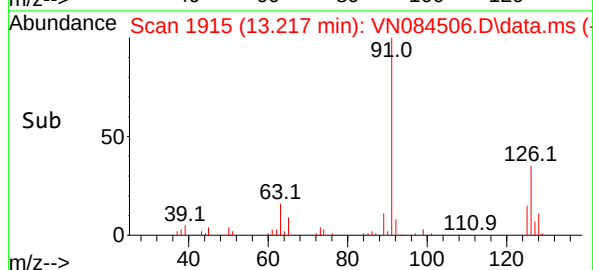
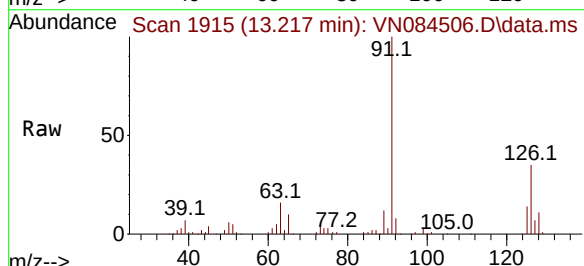
RT: 13.217 min Scan# 1915

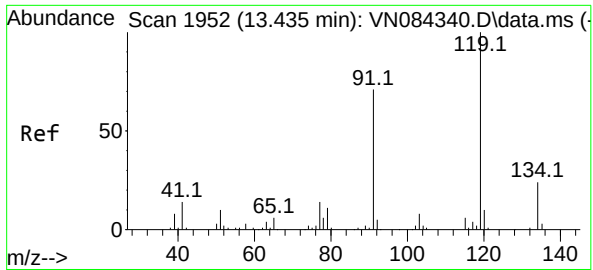
Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

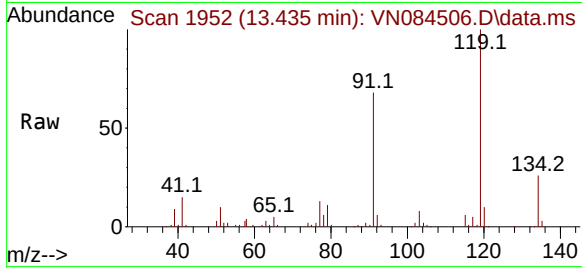
Tgt Ion:	91	Resp:	145653
Ion	Ratio	Lower	Upper
91	100		
126	32.6	0.0	62.4





#79
tert-butylbenzene
Concen: 18.822 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

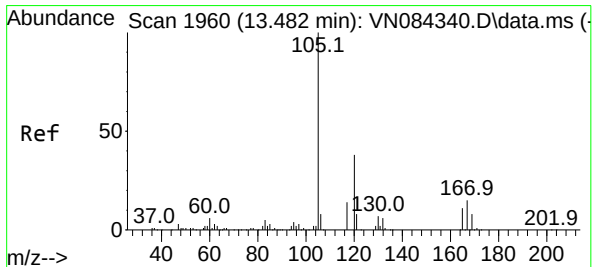
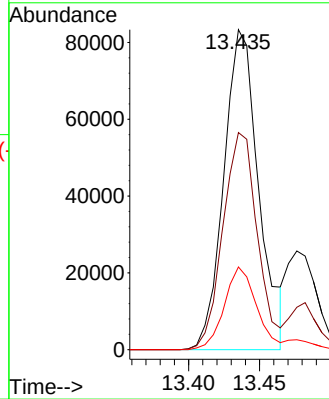
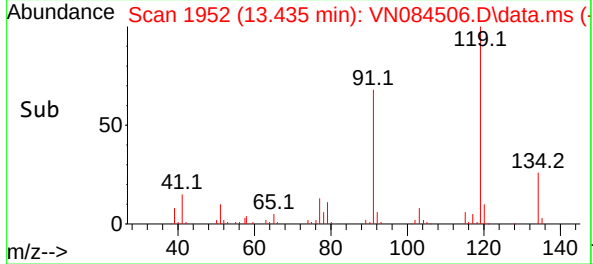
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



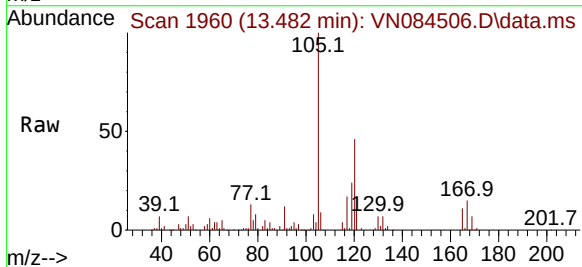
Tgt Ion:119 Resp: 142685
Ion Ratio Lower Upper
119 100
91 67.1 0.0 138.0
134 23.8 0.0 48.8

Manual Integrations
APPROVED

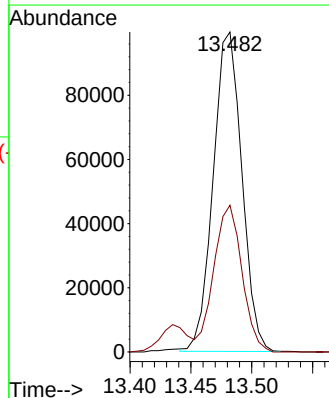
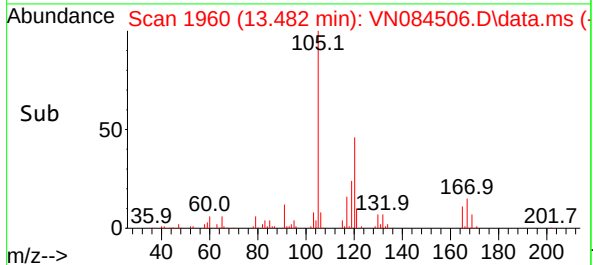
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

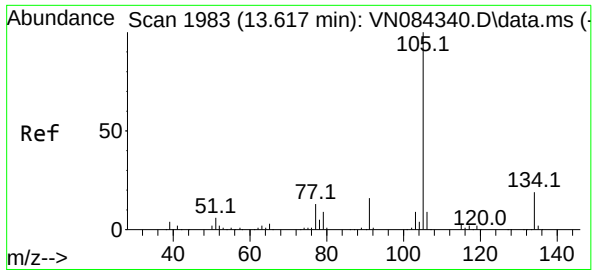


#80
1,2,4-Trimethylbenzene
Concen: 18.059 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04



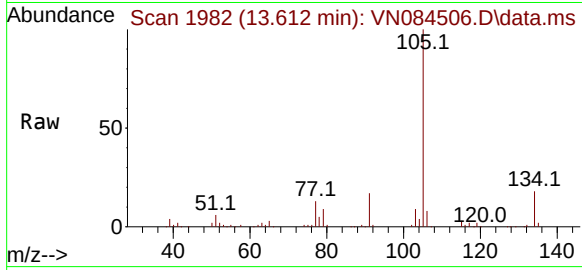
Tgt Ion:105 Resp: 162818
Ion Ratio Lower Upper
105 100
120 45.2 0.0 88.8





#81
sec-Butylbenzene
Concen: 18.474 ug/l
RT: 13.612 min Scan# 1983
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

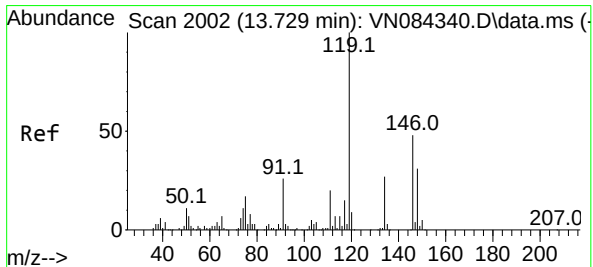
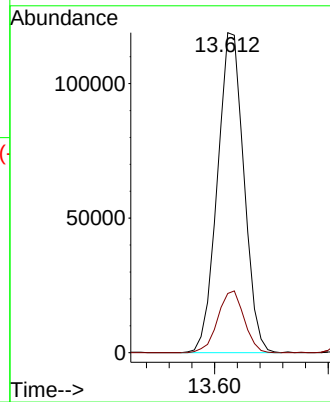
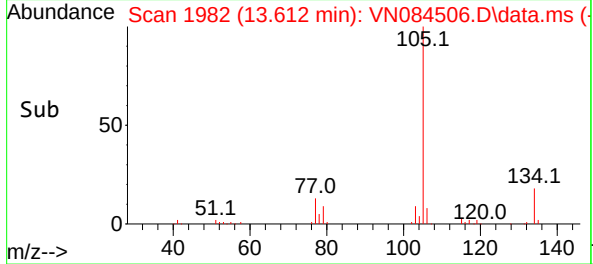
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



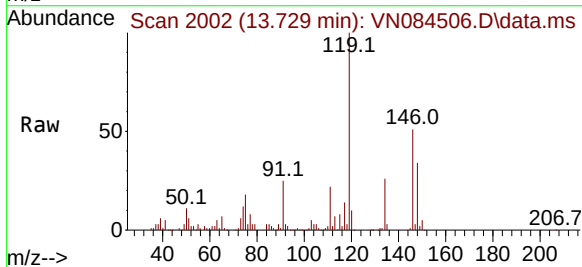
Tgt Ion:105 Resp: 192819
Ion Ratio Lower Upper
105 100
134 19.1 0.0 38.0

Manual Integrations
APPROVED

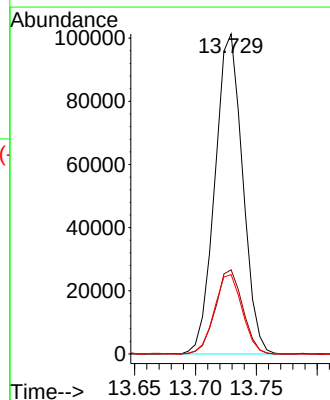
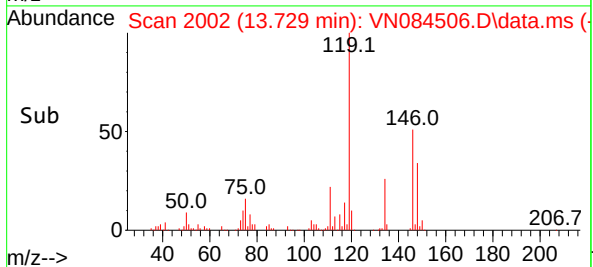
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

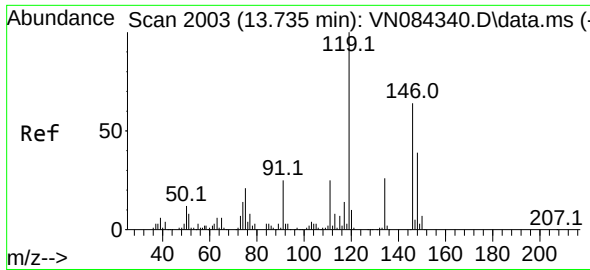


#82
p-Isopropyltoluene
Concen: 18.252 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04



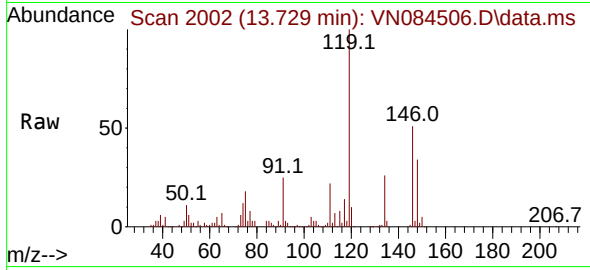
Tgt Ion:119 Resp: 160343
Ion Ratio Lower Upper
119 100
134 26.0 0.0 50.2
91 25.0 0.0 50.6





#83
1,3-Dichlorobenzene
Concen: 18.496 ug/l
RT: 13.729 min Scan# 2003
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

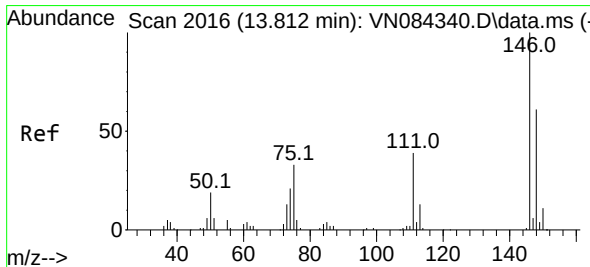
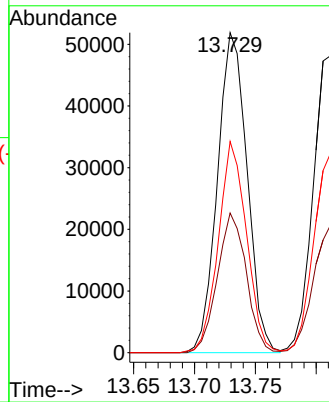
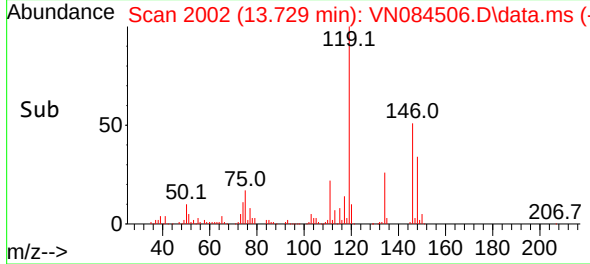
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion:146 Resp: 87899
Ion Ratio Lower Upper
146 100
111 42.7 20.6 61.9
148 62.9 31.6 94.7

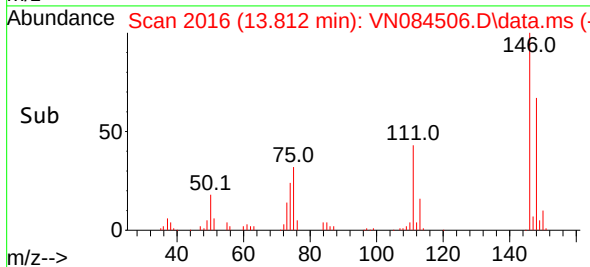
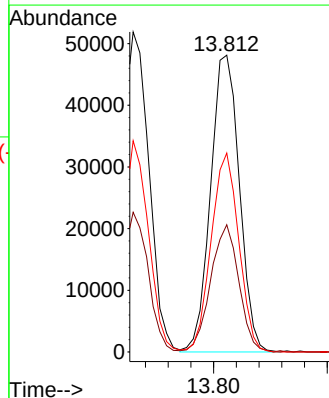
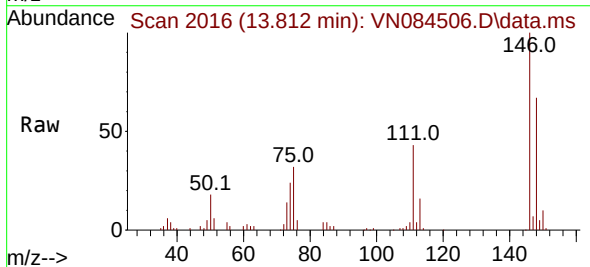
Manual Integrations
APPROVED

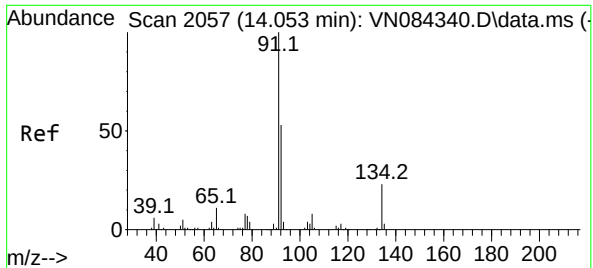
Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#84
1,4-Dichlorobenzene
Concen: 17.962 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion:146 Resp: 84764
Ion Ratio Lower Upper
146 100
111 42.0 20.5 61.5
148 64.3 32.5 97.4





#85

n-Butylbenzene

Concen: 17.435 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

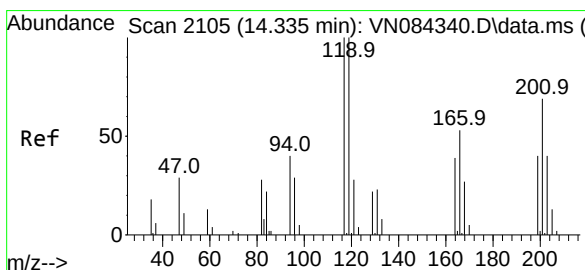
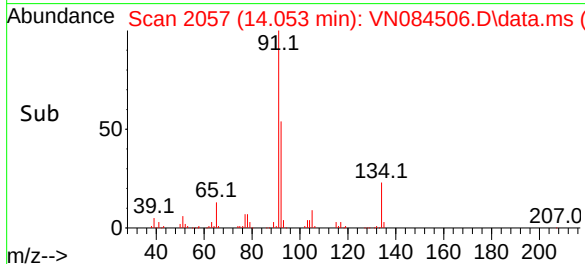
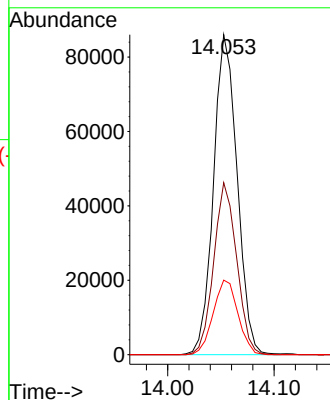
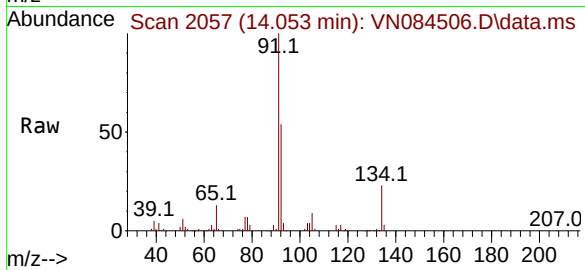
VN1025WBSD01

Tgt Ion:	91	Resp:	132654
Ion	Ratio	Lower	Upper
91	100		
92	52.2	0.0	103.4
134	24.4	0.0	48.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#86

Hexachloroethane

Concen: 17.647 ug/l

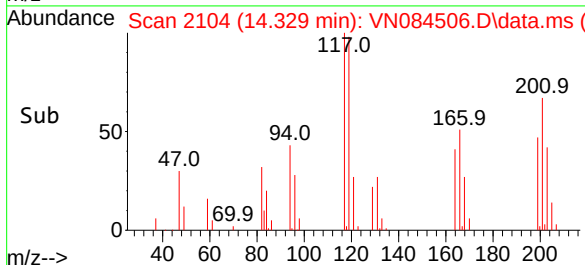
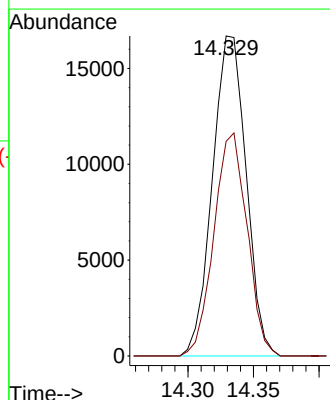
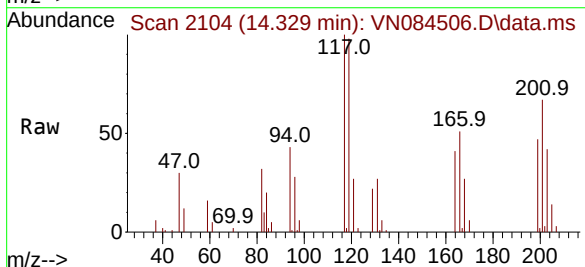
RT: 14.329 min Scan# 2104

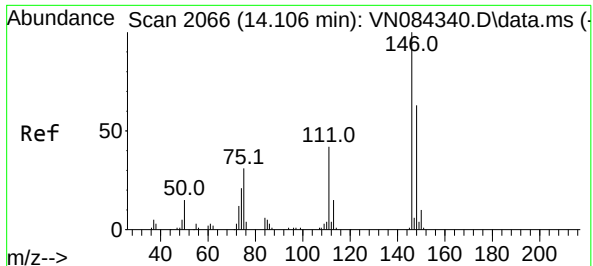
Delta R.T. -0.006 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Tgt Ion:	117	Resp:	29867
Ion	Ratio	Lower	Upper
117	100		
201	68.5	33.9	101.6





#87

1,2-Dichlorobenzene

Concen: 18.350 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

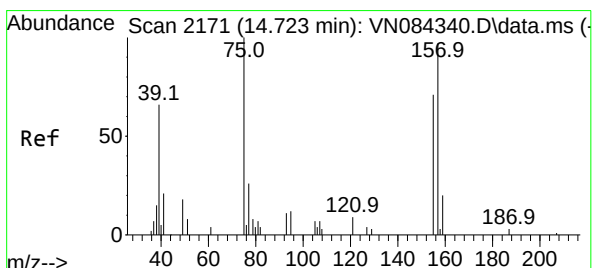
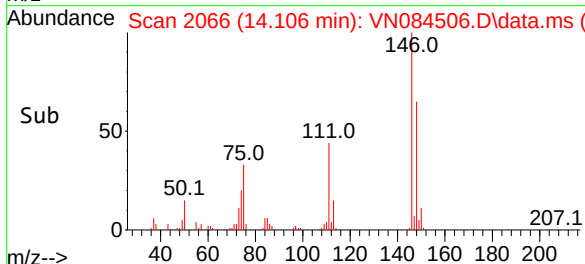
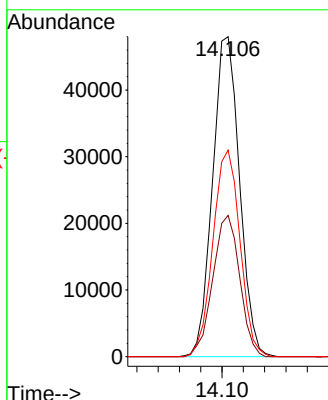
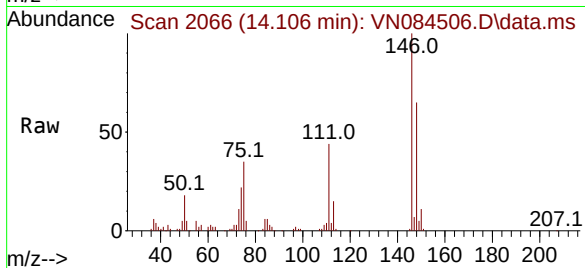
VN1025WBSD01

Tgt Ion:	146	Resp:	8431
Ion Ratio	Lower	Upper	
146	100		
111	44.2	21.9	65.5
148	64.7	31.1	93.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.033 ug/l

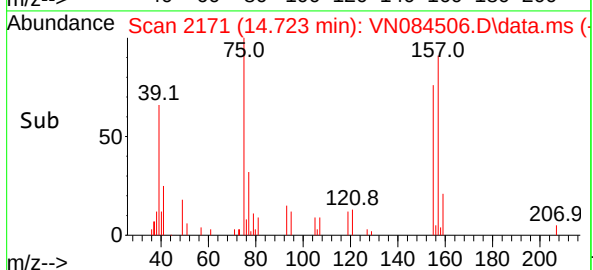
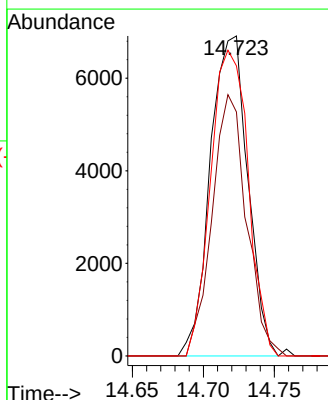
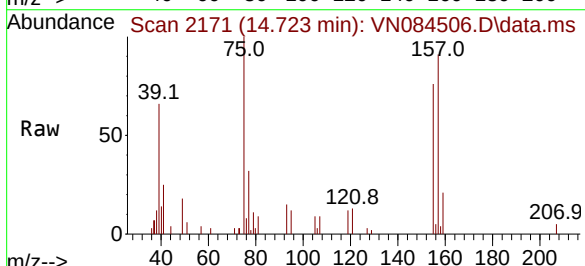
RT: 14.723 min Scan# 2171

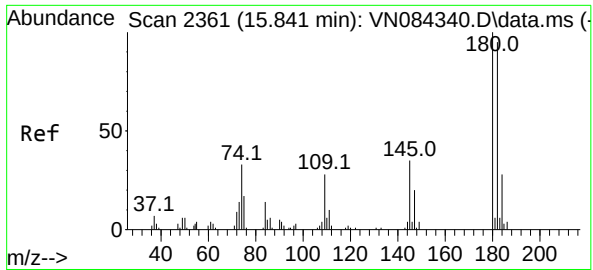
Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Tgt Ion:	75	Resp:	12707
Ion Ratio	Lower	Upper	
75	100		
155	75.0	61.8	92.8
157	96.0	77.4	116.0





#89

1,2,4-Trichlorobenzene

Concen: 17.602 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

Instrument :

MSVOA_N

ClientSampleId :

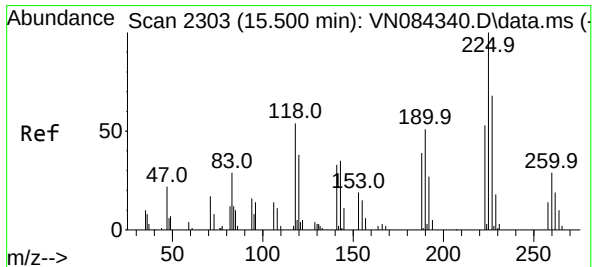
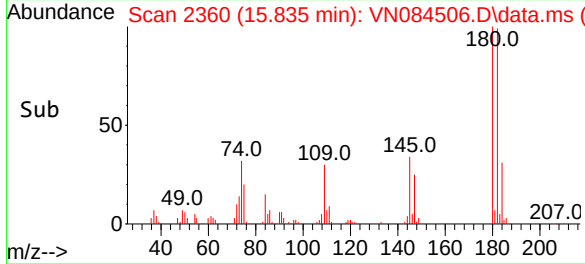
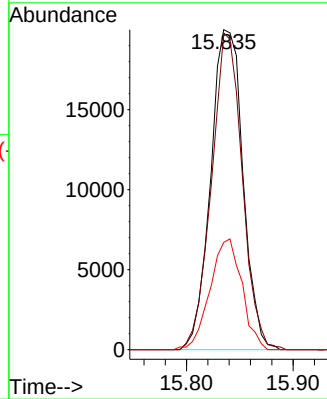
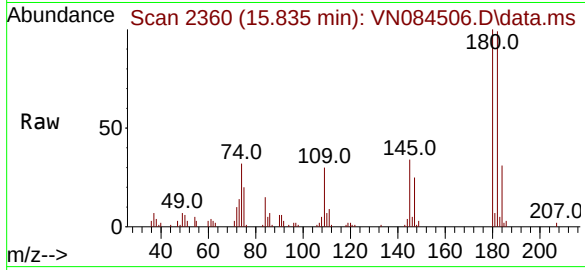
VN1025WBSD01

Tgt Ion:180	Resp:	42050	
Ion Ratio	Lower	Upper	
180	100		
182	94.1	77.8	116.6
145	34.2	28.9	43.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#90

Hexachlorobutadiene

Concen: 17.598 ug/l

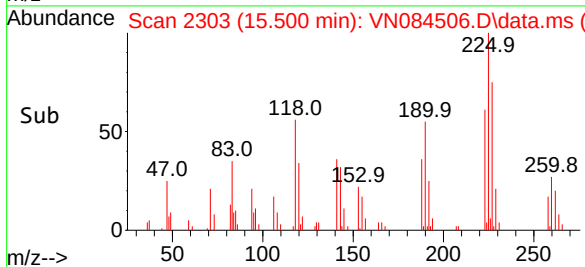
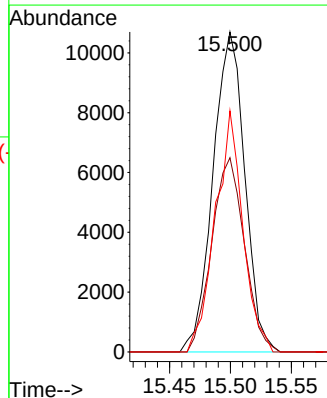
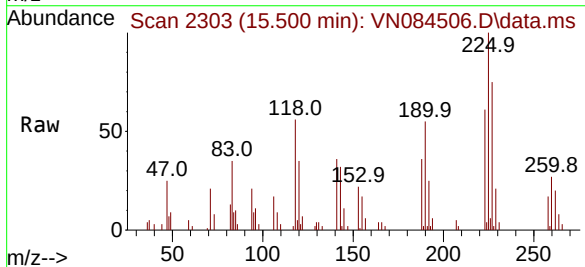
RT: 15.500 min Scan# 2303

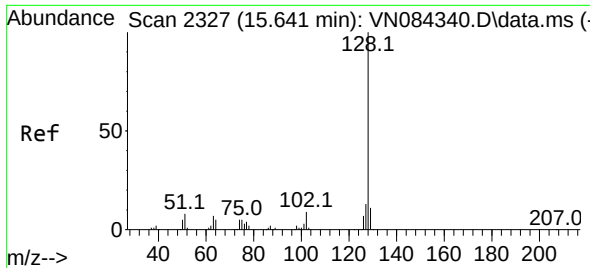
Delta R.T. -0.000 min

Lab File: VN084506.D

Acq: 25 Oct 2024 11:04

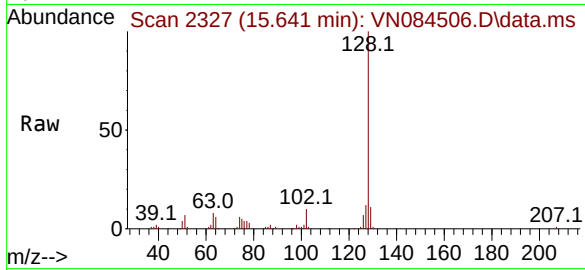
Tgt Ion:225	Resp:	19449	
Ion Ratio	Lower	Upper	
225	100		
223	62.3	0.0	124.0
227	65.6	0.0	130.8





#91
Naphthalene
Concen: 16.711 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

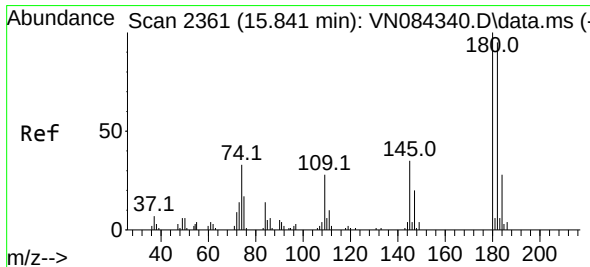
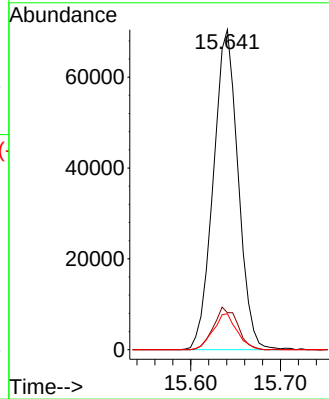
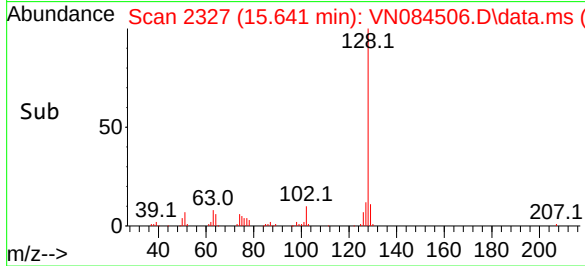
Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD01



Tgt Ion:128 Resp: 13528
Ion Ratio Lower Upper
128 100
127 13.0 10.3 15.5
129 10.8 8.8 13.2

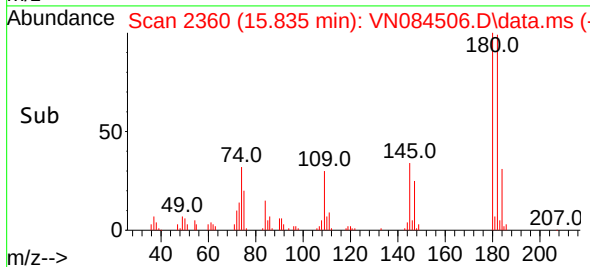
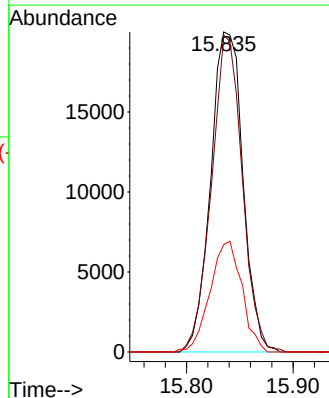
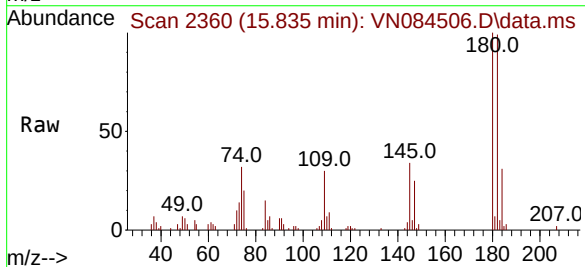
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



#92
1,2,3-Trichlorobenzene
Concen: 17.602 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN084506.D
Acq: 25 Oct 2024 11:04

Tgt Ion:180 Resp: 42050
Ion Ratio Lower Upper
180 100
182 94.1 0.0 194.4
145 34.2 0.0 72.2



Manual Integration Report

Sequence:	vn100824	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VN084337.D	1,2,3-Trichloropropane	JOHN	10/9/2024 9:43:58 AM	MMDadoda	10/9/2024 8:55:19 PM	Peak Integrated by Software
VSTDICC100	VN084338.D	1,2,3-Trichloropropane	JOHN	10/9/2024 9:44:02 AM	MMDadoda	10/9/2024 8:55:22 PM	Peak Integrated by Software
VSTDICC050	VN084339.D	1,2,3-Trichloropropane	JOHN	10/9/2024 9:44:07 AM	MMDadoda	10/9/2024 8:55:25 PM	Peak Integrated by Software
VSTDICC050	VN084339.D	Methyl tert-Butyl Ether	JOHN	10/9/2024 9:44:07 AM	MMDadoda	10/9/2024 8:55:25 PM	Peak Integrated by Software
VSTDICCC020	VN084340.D	1,2,3-Trichloropropane	JOHN	10/9/2024 9:44:11 AM	MMDadoda	10/9/2024 8:55:28 PM	Peak Integrated by Software
VSTDICC005	VN084341.D	1,1,1-Trichloroethane	JOHN	10/9/2024 9:44:15 AM	MMDadoda	10/9/2024 8:55:31 PM	Peak Integrated by Software
VSTDICC005	VN084341.D	1,2,3-Trichloropropane	JOHN	10/9/2024 9:44:15 AM	MMDadoda	10/9/2024 8:55:31 PM	Peak Integrated by Software
VSTDICC005	VN084341.D	Acrylonitrile	JOHN	10/9/2024 9:44:15 AM	MMDadoda	10/9/2024 8:55:31 PM	Peak Integrated by Software
VSTDICC005	VN084341.D	Diethyl Ether	JOHN	10/9/2024 9:44:15 AM	MMDadoda	10/9/2024 8:55:31 PM	Peak Integrated by Software
VSTDICC005	VN084341.D	Ethyl Acetate	JOHN	10/9/2024 9:44:15 AM	MMDadoda	10/9/2024 8:55:31 PM	Peak Integrated by Software
VSTDICC005	VN084341.D	Methacrylonitrile	JOHN	10/9/2024 9:44:15 AM	MMDadoda	10/9/2024 8:55:31 PM	Peak Integrated by Software
VSTDICC005	VN084341.D	Methylene Chloride	JOHN	10/9/2024 9:44:15 AM	MMDadoda	10/9/2024 8:55:31 PM	Peak Integrated by Software
VSTDICV020	VN084343.D	1,2,3-Trichloropropane	JOHN	10/9/2024 9:44:19 AM	MMDadoda	10/9/2024 8:55:36 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vn100824

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV020	VN084343.D	Ethyl Acetate	JOHN	10/9/2024 9:44:19 AM	MMDadoda	10/9/2024 8:55:36 PM	Peak Integrated by Software
VSTDCCC020	VN084355.D	1,2,3-Trichloropropane	JOHN	10/9/2024 9:44:52 AM	MMDadoda	10/9/2024 8:55:52 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vn102524	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084503.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:56:55 AM	MMDadoda	10/28/2024 2:07:17 PM	Peak Integrated by Software
VSTDCCC050	VN084503.D	trans-1,4-Dichloro-2-but ene	SAM	10/28/2024 9:56:55 AM	MMDadoda	10/28/2024 2:07:17 PM	Peak Integrated by Software
VSTDCCC020	VN084504.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:57:01 AM	MMDadoda	10/28/2024 2:07:20 PM	Peak Integrated by Software
VSTDCCC020	VN084504.D	Isopropyl Acetate	SAM	10/28/2024 9:57:01 AM	MMDadoda	10/28/2024 2:07:20 PM	Peak Integrated by Software
VN1025WBS01	VN084505.D	1,2,3-Trichloropropane	SAM	10/28/2024 11:04:43 AM	MMDadoda	10/28/2024 2:07:22 PM	Peak Integrated by Software
VN1025WBSD0 1	VN084506.D	1,2,3-Trichloropropane	SAM	10/28/2024 11:04:38 AM	MMDadoda	10/28/2024 2:07:24 PM	Peak Integrated by Software
VSTDCCC050	VN084526.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:57:39 AM	MMDadoda	10/28/2024 2:07:32 PM	Peak Integrated by Software
VSTDCCC020	VN084527.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:57:44 AM	MMDadoda	10/28/2024 2:07:34 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN100824

Review By	John Carlone	Review On	10/9/2024 9:46:14 AM
Supervise By	Mahesh Dadoda	Supervise On	10/9/2024 8:56:13 PM
SubDirectory	VN100824	HP Acquire Method	HP Processing Method 624N100824W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130714		
Initial Calibration Stds	VP130724,VP130725,VP130726,VP130727,VP130728		
CCC	VP130715		
Internal Standard/PEM			
ICV/I.BLK	VP130729		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084336.D	08 Oct 2024 09:08	JC\MD	Ok
2	VSTDICC150	VN084337.D	08 Oct 2024 09:43	JC\MD	Ok,M
3	VSTDICC100	VN084338.D	08 Oct 2024 10:07	JC\MD	Ok,M
4	VSTDICC050	VN084339.D	08 Oct 2024 10:31	JC\MD	Ok,M
5	VSTDICCC020	VN084340.D	08 Oct 2024 10:55	JC\MD	Ok,M
6	VSTDICC005	VN084341.D	08 Oct 2024 11:19	JC\MD	Ok,M
7	IBLK	VN084342.D	08 Oct 2024 11:43	JC\MD	Ok
8	VSTDICV020	VN084343.D	08 Oct 2024 12:09	JC\MD	Ok,M
9	VN1008WBS01	VN084344.D	08 Oct 2024 12:46	JC\MD	Ok,M
10	VN1008WBSD01	VN084345.D	08 Oct 2024 13:21	JC\MD	Ok,M
11	VN1008WBL01	VN084346.D	08 Oct 2024 13:45	JC\MD	Ok
12	P4271-01	VN084347.D	08 Oct 2024 14:11	JC\MD	Ok
13	P4334-01	VN084348.D	08 Oct 2024 14:53	JC\MD	Ok,M
14	P4334-02	VN084349.D	08 Oct 2024 15:17	JC\MD	Ok
15	P4337-01	VN084350.D	08 Oct 2024 15:41	JC\MD	Ok
16	P4337-02	VN084351.D	08 Oct 2024 16:05	JC\MD	Ok
17	P4289-01	VN084352.D	08 Oct 2024 16:29	JC\MD	Ok,M
18	IBLK	VN084353.D	08 Oct 2024 16:53	JC\MD	Ok,M
19	IBLK	VN084354.D	08 Oct 2024 17:16	JC\MD	Ok,M
20	VSTDCCC020	VN084355.D	08 Oct 2024 17:40	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN102524

Review By	Maresh Dadoda	Review On	10/28/2024 2:07:54 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2024 2:09:34 PM		
SubDirectory	VN102524	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131110,VP131122			
CCC		VP131111,VP131112,VP131123,VP131124			
Internal Standard/PEM		VP128298			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084502.D	25 Oct 2024 08:21	JC\MD	Ok
2	VSTDCCC050	VN084503.D	25 Oct 2024 08:59	JC\MD	Ok,M
3	VSTDCCC020	VN084504.D	25 Oct 2024 10:04	JC\MD	Ok,M
4	VN1025WBS01	VN084505.D	25 Oct 2024 10:40	JC\MD	Ok,M
5	VN1025WBSD01	VN084506.D	25 Oct 2024 11:04	JC\MD	Ok,M
6	VN1025WBL01	VN084507.D	25 Oct 2024 11:27	JC\MD	Ok
7	VN1025WBL02	VN084508.D	25 Oct 2024 11:51	JC\MD	Ok
8	VN1025WBS02	VN084509.D	25 Oct 2024 12:27	JC\MD	Ok,M
9	VN1025WBSD02	VN084510.D	25 Oct 2024 12:51	JC\MD	Ok,M
10	P4528-02	VN084511.D	25 Oct 2024 13:15	JC\MD	Ok,M
11	P4549-01	VN084512.D	25 Oct 2024 13:39	JC\MD	Ok
12	P4528-01	VN084513.D	25 Oct 2024 14:03	JC\MD	Ok
13	VIBLK	VN084514.D	25 Oct 2024 14:27	JC\MD	Ok
14	P4549-03	VN084515.D	25 Oct 2024 14:51	JC\MD	Ok
15	P4549-02	VN084516.D	25 Oct 2024 15:15	JC\MD	Ok
16	P4549-04	VN084517.D	25 Oct 2024 15:39	JC\MD	Ok
17	P4554-01	VN084518.D	25 Oct 2024 16:03	JC\MD	Ok,M
18	P4550-01	VN084519.D	25 Oct 2024 16:27	JC\MD	ReRun
19	P4528-02	VN084520.D	25 Oct 2024 16:50	JC\MD	Ok
20	P4528-01	VN084521.D	25 Oct 2024 17:14	JC\MD	ReRun
21	P4550-02	VN084522.D	25 Oct 2024 17:38	JC\MD	ReRun

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN102524

Review By	Mahesh Dadoda	Review On	10/28/2024 2:07:54 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2024 2:09:34 PM		
SubDirectory	VN102524	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131110,VP131122			
CCC		VP131111,VP131112,VP131123,VP131124			
Internal Standard/PEM		VP128298			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P4550-03	VN084523.D	25 Oct 2024 18:02	JC\MD	Ok
23	P4550-04	VN084524.D	25 Oct 2024 18:26	JC\MD	Ok
24	P4550-05	VN084525.D	25 Oct 2024 18:49	JC\MD	ReRun
25	VSTDCCC050	VN084526.D	25 Oct 2024 19:13	JC\MD	Ok,M
26	VSTDCCC020	VN084527.D	25 Oct 2024 19:37	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN100824

Review By	John Carlone	Review On	10/9/2024 9:46:14 AM
Supervise By	Maresh Dadoda	Supervise On	10/9/2024 8:56:13 PM
SubDirectory	VN100824	HP Acquire Method	HP Processing Method 624N100824W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130714		
Initial Calibration Stds	VP130724,VP130725,VP130726,VP130727,VP130728		
CCC	VP130715		
Internal Standard/PEM			
ICV/I.BLK	VP130729		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084336.D	08 Oct 2024 09:08		JC\MD	Ok
2	VSTDICC150	VSTDICC150	VN084337.D	08 Oct 2024 09:43	V13516	JC\MD	Ok,M
3	VSTDICC100	VSTDICC100	VN084338.D	08 Oct 2024 10:07		JC\MD	Ok,M
4	VSTDICC050	VSTDICC050	VN084339.D	08 Oct 2024 10:31		JC\MD	Ok,M
5	VSTDICCC020	VSTDICCC020	VN084340.D	08 Oct 2024 10:55		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN084341.D	08 Oct 2024 11:19		JC\MD	Ok,M
7	IBLK	IBLK	VN084342.D	08 Oct 2024 11:43		JC\MD	Ok
8	VSTDICV020	ICVVN100824	VN084343.D	08 Oct 2024 12:09		JC\MD	Ok,M
9	VN1008WBS01	VN1008WBS01	VN084344.D	08 Oct 2024 12:46		JC\MD	Ok,M
10	VN1008WBSD01	VN1008WBSD01	VN084345.D	08 Oct 2024 13:21		JC\MD	Ok,M
11	VN1008WBL01	VN1008WBL01	VN084346.D	08 Oct 2024 13:45		JC\MD	Ok
12	P4271-01	14B-1	VN084347.D	08 Oct 2024 14:11	vial B pH#6.0	JC\MD	Ok
13	P4334-01	001-WILLETS-PT-BLVD	VN084348.D	08 Oct 2024 14:53	vial A pH<2	JC\MD	Ok,M
14	P4334-02	002-35TH-AVE(SEP)	VN084349.D	08 Oct 2024 15:17	vial A pH<2	JC\MD	Ok
15	P4337-01	001-WILLETS-PT-BLVD	VN084350.D	08 Oct 2024 15:41	vial A pH<2	JC\MD	Ok
16	P4337-02	002-35TH-AVE(OCT)	VN084351.D	08 Oct 2024 16:05	vial A pH<2	JC\MD	Ok
17	P4289-01	EFF-Waste Water	VN084352.D	08 Oct 2024 16:29	vial B pH<2	JC\MD	Ok,M
18	IBLK	IBLK	VN084353.D	08 Oct 2024 16:53		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN100824

Review By	John Carlone	Review On	10/9/2024 9:46:14 AM
Supervise By	Mahesh Dadoda	Supervise On	10/9/2024 8:56:13 PM
SubDirectory	VN100824	HP Acquire Method	HP Processing Method 624N100824W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130714		
Initial Calibration Stds	VP130724,VP130725,VP130726,VP130727,VP130728		
CCC	VP130715		
Internal Standard/PEM			
ICV/I.BLK	VP130729		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	IBLK	IBLK	VN084354.D	08 Oct 2024 17:16		JC\MD	Ok,M
20	VSTDCCC020	VSTDCCC020EC	VN084355.D	08 Oct 2024 17:40		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102524

Review By	Maresh Dadoda	Review On	10/28/2024 2:07:54 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2024 2:09:34 PM
SubDirectory	VN102524	HP Acquire Method	MSVOA_N HP Processing Method 82n093024w.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131110,VP131122
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131111,VP131112,VP131123,VP131124 VP128298

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084502.D	25 Oct 2024 08:21		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084503.D	25 Oct 2024 08:59	CCC Failed for comp. #02	JC\MD	Ok,M
3	VSTDCCC020	VSTDCCC020	VN084504.D	25 Oct 2024 10:04		JC\MD	Ok,M
4	VN1025WBS01	VN1025WBS01	VN084505.D	25 Oct 2024 10:40		JC\MD	Ok,M
5	VN1025WBSD01	VN1025WBSD01	VN084506.D	25 Oct 2024 11:04		JC\MD	Ok,M
6	VN1025WBL01	VN1025WBL01	VN084507.D	25 Oct 2024 11:27		JC\MD	Ok
7	VN1025WBL02	VN1025WBL02	VN084508.D	25 Oct 2024 11:51	8260	JC\MD	Ok
8	VN1025WBS02	VN1025WBS02	VN084509.D	25 Oct 2024 12:27	8260	JC\MD	Ok,M
9	VN1025WBSD02	VN1025WBSD02	VN084510.D	25 Oct 2024 12:51	8260	JC\MD	Ok,M
10	P4528-02	241023062-05-TRIP-BL	VN084511.D	25 Oct 2024 13:15	pH#5.0 B TB	JC\MD	Ok,M
11	P4549-01	TT-TB-20241024	VN084512.D	25 Oct 2024 13:39	pH#<2 A TB	JC\MD	Ok
12	P4528-01	241023062-02-VOA	VN084513.D	25 Oct 2024 14:03	pH#7.0 B	JC\MD	Ok
13	VIBLK	VIBLK	VN084514.D	25 Oct 2024 14:27		JC\MD	Ok
14	P4549-03	TT-068-IDWGW-20241	VN084515.D	25 Oct 2024 14:51	bad matrix no straight run	JC\MD	Ok
15	P4549-02	TT-067-IDWGW-20241	VN084516.D	25 Oct 2024 15:15	bad matrix no straight run	JC\MD	Ok
16	P4549-04	TT-069-IDWGW-20241	VN084517.D	25 Oct 2024 15:39	bad matrix no straight run	JC\MD	Ok
17	P4554-01	001-WILLETS-BLVD(SI	VN084518.D	25 Oct 2024 16:03	pH#2.0 A	JC\MD	Ok,M
18	P4550-01	BP-VPB-190-TB-20241	VN084519.D	25 Oct 2024 16:27	pH#2.0 A TB;Surrogate fail	JC\MD	ReRun

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102524

Review By	Mahesh Dadoda	Review On	10/28/2024 2:07:54 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2024 2:09:34 PM		
SubDirectory	VN102524	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131110,VP131122			
CCC		VP131111,VP131112,VP131123,VP131124			
Internal Standard/PEM		VP128298			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4528-02	241023062-05-TRIP-BL	VN084520.D	25 Oct 2024 16:50	pH#5.0 A TB;CCC Failed for comp. #02,no sample to rerun confirmation.no hit on the sample.	JC\MD	Ok
20	P4528-01	241023062-02-VOA	VN084521.D	25 Oct 2024 17:14	pH#7.0 A CCC Failed for comp. #02	JC\MD	ReRun
21	P4550-02	VPB190-HYD-2024102	VN084522.D	25 Oct 2024 17:38	pH#2.0 A Surrogate fail	JC\MD	ReRun
22	P4550-03	BP-VPB-190-EB-20241	VN084523.D	25 Oct 2024 18:02	pH#2.0 A EB	JC\MD	Ok
23	P4550-04	BP-VPB-190-GW-298-3	VN084524.D	25 Oct 2024 18:26	pH#2.0 A	JC\MD	Ok
24	P4550-05	BP-VPB-190-GW-318-3	VN084525.D	25 Oct 2024 18:49	pH#2.0 A Surrogate fail	JC\MD	ReRun
25	VSTDCCC050	VSTDCCC050EC	VN084526.D	25 Oct 2024 19:13		JC\MD	Ok,M
26	VSTDCCC020	VSTDCCC020EC	VN084527.D	25 Oct 2024 19:37		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P4549

Test : VOCMS Group4

Prepbatch ID :

Sequence ID/Qc Batch ID: vn102524,

Standard ID :

VP128290,VP128298,VP128762,VP128766,VP130314,VP130430,VP130836,VP130994,VP 131110,VP131111,VP131112,VP131122,VP131123,VP131124,

Chemical ID :

V12560,V12666,V12794,V12798,V13390,V13444,V13462,V13463,V13707,V13804,V13806,V14018,V14019,V14108,V14145,V14147,V14148,V14152,V14171,V14172,V14212,V14215,V14217,V14288,V14436,V14443,V14546,V14547,V14548,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
06/12/2024								

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP128298	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
06/12/2024								

FROM 0.10000ml of V14288 + 9.90000ml of V14148 = Final Quantity: 10.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP128762	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 0.50000ml of V12798 + 1.50000ml of V12794 + 23.00000ml of V14147 = 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>
719	8260 Working STD (BCM)-First source, 400PPM	VP128766	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 1.50000ml of V13462 + 1.50000ml of V13463 + 12.00000ml of V14147 = Final Quantity: 15.000 ml



VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP130314	09/16/2024	10/26/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/18/2024

FROM 0.40000ml of V13444 + 1.00000ml of V13804 + 1.00000ml of V13806 + 1.00000ml of V14018 + 1.00000ml of V14019 + 1.00000ml of V14171 + 1.00000ml of V14172 + 1.00000ml of V14217 + 1.00000ml of V14436 + 1.00000ml of V14443 + 1.50000ml of V14212 + 1.50000ml of V14215 + 10.60000ml of V14145 + 2.00000ml of V14108 = 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>
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2024

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP130836	10/14/2024	11/07/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								10/16/2024

FROM 1.00000ml of V14548 + 1.50000ml of V14546 + 1.50000ml of V14547 + 21.00000ml of V14145 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
466	624 Internal Standard and Surrogate Mix, 150PPM	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

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP131110	10/25/2024	10/26/2024	Amit Patel	None	None	Maresh Dadoda
								10/29/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP131111	10/25/2024	10/26/2024	Amit Patel	None	None	Maresh Dadoda
								10/29/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP128766 + 0.00500ml of VP130430 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP130314 + 0.01250ml of VP130836 = Final Quantity: 40.000 ml



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

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

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

[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	VP131124	10/25/2024	10/26/2024	Amit Patel	None	None	Mahesh Dadoda 10/29/2024
<u>FROM</u>	39.97000ml of W3112 + 0.00500ml of VP128762 + 0.00500ml of VP130314 + 0.00500ml of VP130836 + 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 #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13462

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	03/16/2025	09/16/2024 / SAM	05/31/2023 / SAM	V13804

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	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	03/16/2025	09/16/2024 / SAM	11/22/2023 / SAM	V14018

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

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

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/16/2025	09/16/2024 / SAM	02/20/2024 / SAM	V14171

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/16/2025	09/16/2024 / SAM	02/20/2024 / SAM	V14172

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/16/2025	09/16/2024 / SAM	02/28/2024 / SAM	V14212

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/16/2025	09/16/2024 / SAM	02/28/2024 / SAM	V14215

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/16/2025	09/16/2024 / SAM	02/28/2024 / SAM	V14217

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	03/16/2025	09/16/2024 / SAM	08/15/2024 / SAM	V14443

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	100724	11/07/2024	10/14/2024 / SAM	10/09/2024 / SAM	V14546

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	100724	11/07/2024	10/14/2024 / SAM	10/09/2024 / SAM	V14547

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	100724	11/07/2024	10/14/2024 / SAM	10/09/2024 / SAM	V14548

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



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

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

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

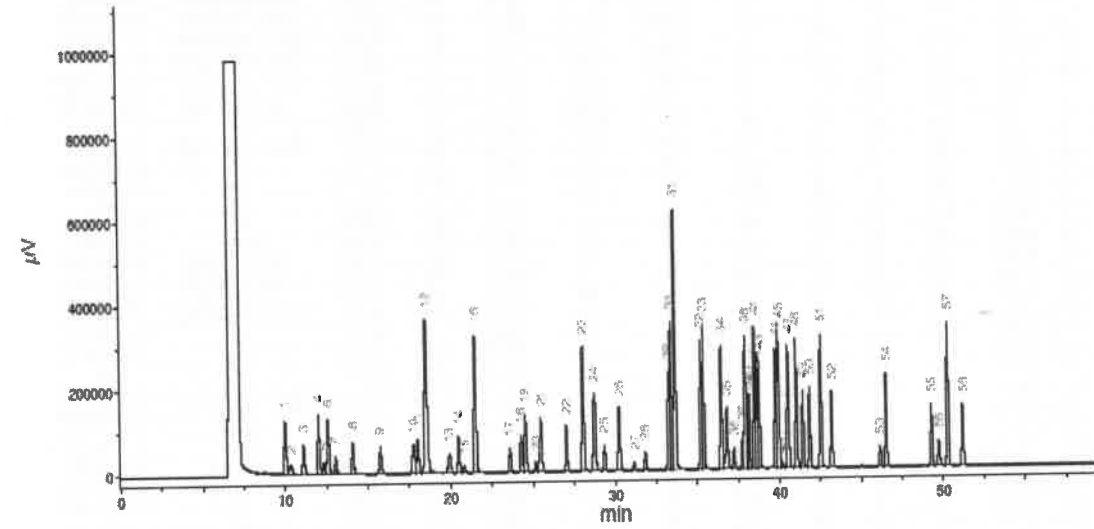
Formulated By:	<i>Prashant Chauhan</i>	021624
	Prashant Chauhan	DATE
Reviewed By:	<i>Pedro L. Rentes</i>	021624
	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
														Part Number	Number	Factor	Vol. (mL)
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	67-68-3	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 830mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg	
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 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	1999.8	22.9	106-98-3	200 ppm	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	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				

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/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.99
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**

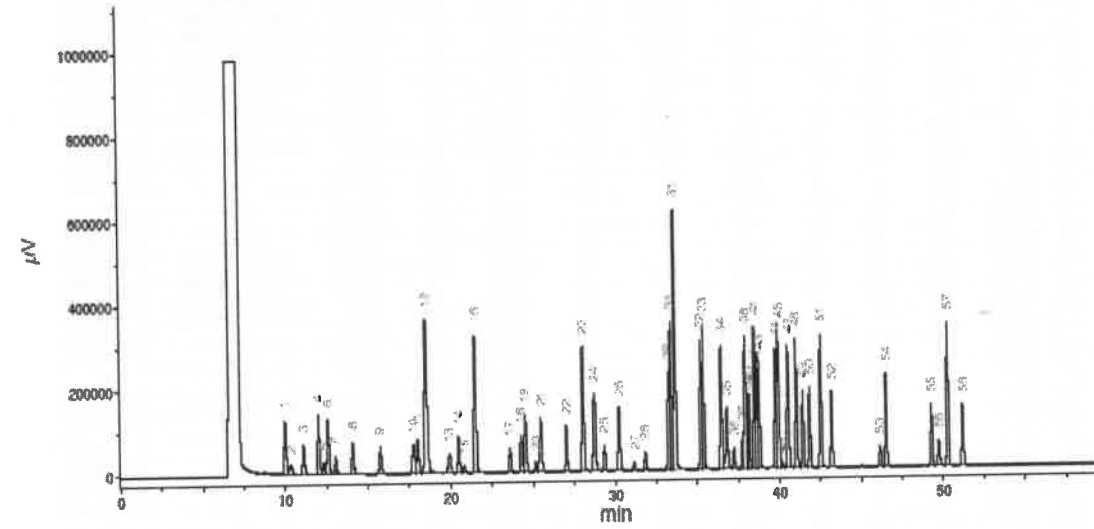
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)		
														CAS#	OSHA PEL (TWA)	LD50
Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)				
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 700mg/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	67-68-3	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	29.7	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	29.7	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 630mg/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	99-87-6	N/A	or-rat 4750mg/kg
Tyrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
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	1999.8	22.9	95-63-6	N/A	or-rat 5g/kg
Xylene	35162	050823	0.05	5.00	40006.7	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	100 ppm (435mg/m3/8h)	or-rat 2290mg/kg
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8h)	or-rat 500mg/kg
propylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-8		

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	36.48
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
11 components

Solvent(s):
Methanol
Lot#
EC592-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

032925
Refrigerate (4 °C)
Varied
6UTB

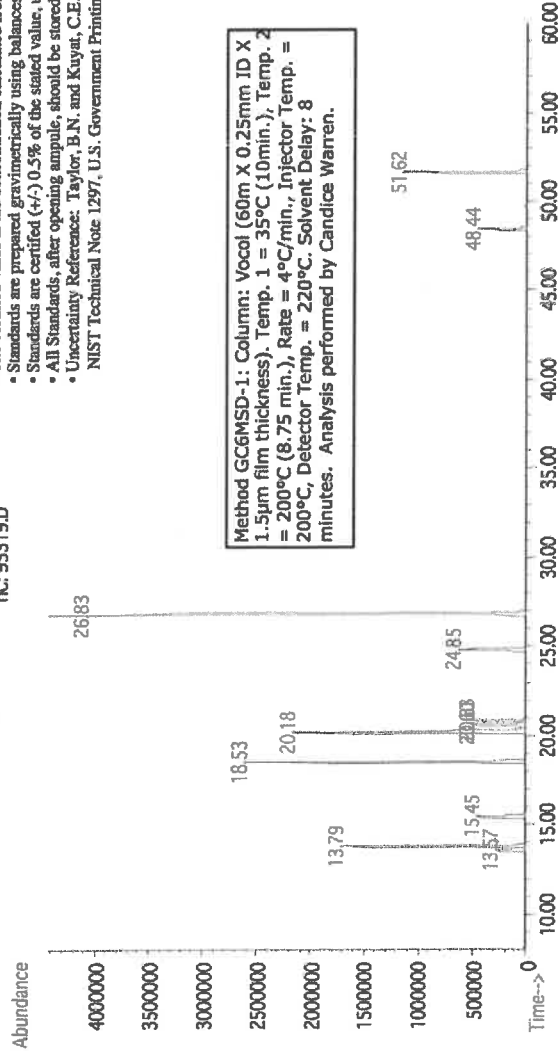
Weight(s) shown below were combined and diluted to (mL):

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.)	LD50
										OSHA PEL (TWA)	
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H) orl-rat 2870mg/kg
4. Di-Isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	109-20-3	500 ppm (2100mg/m3/8H) orl-rat 12705mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin) orl-rat 8470mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin) orl-rat 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197LJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H) orl-rat 38mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A

TIC: 95319.D



Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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

Section V. FIREFIGHTING MEASURES

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

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
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.
Storage Conditions

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

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

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.	
LD50 Oral - rat - 5,628 mg/kg	
LC50 Inhalation - rat - 4 h - 6400 ppm	
LD50 Dermal - rabbit - 15,800 mg/kg	
Toxic if absorbed through skin. Causes skin irritation.	
Eye damage/eye irritation	
Toxic if inhaled. Causes respiratory tract irritation.	
Toxic if swallowed.	

Section 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 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
11 components

Solvent(s):
Methanol
Lot#
EC592-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

032925
Refrigerate (4 °C)
Varied
6UTB

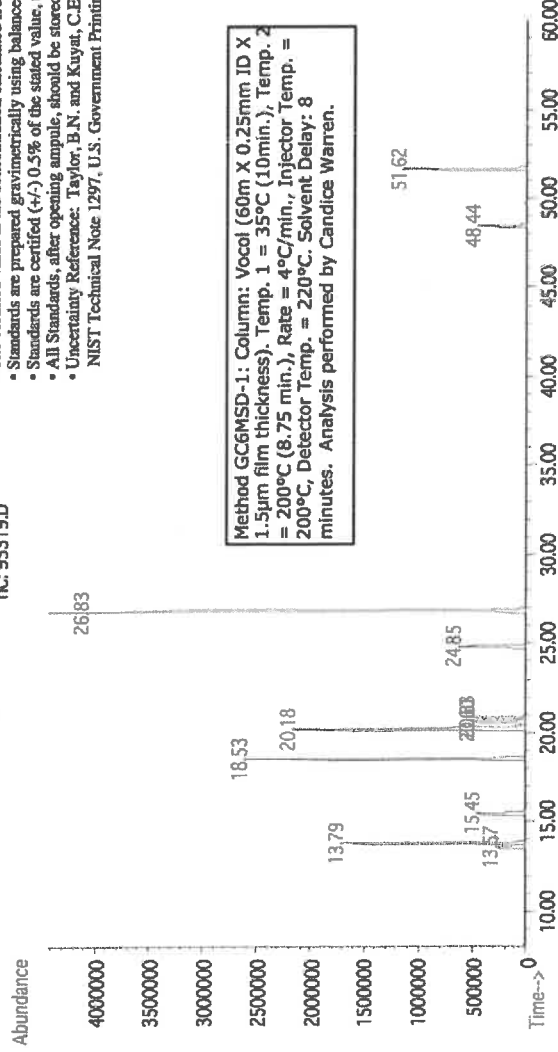
Weight(s) shown below were combined and diluted to (mL):

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 (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	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 /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	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.

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.
Storage Conditions

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Section IX - Physical/Chemical Characteristics

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

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

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.	
LD50 Oral - rat - 5,628 mg/kg	
LC50 Inhalation - rat - 4 h - 6400 ppm	
LD50 Dermal - rabbit - 15,800 mg/kg	
Toxic if absorbed through skin. Causes skin irritation.	
Eye damage/eye irritation	
Toxic if inhaled. Causes respiratory tract irritation.	
Toxic if swallowed.	

Section 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: 91980
Lot Number: 100724
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

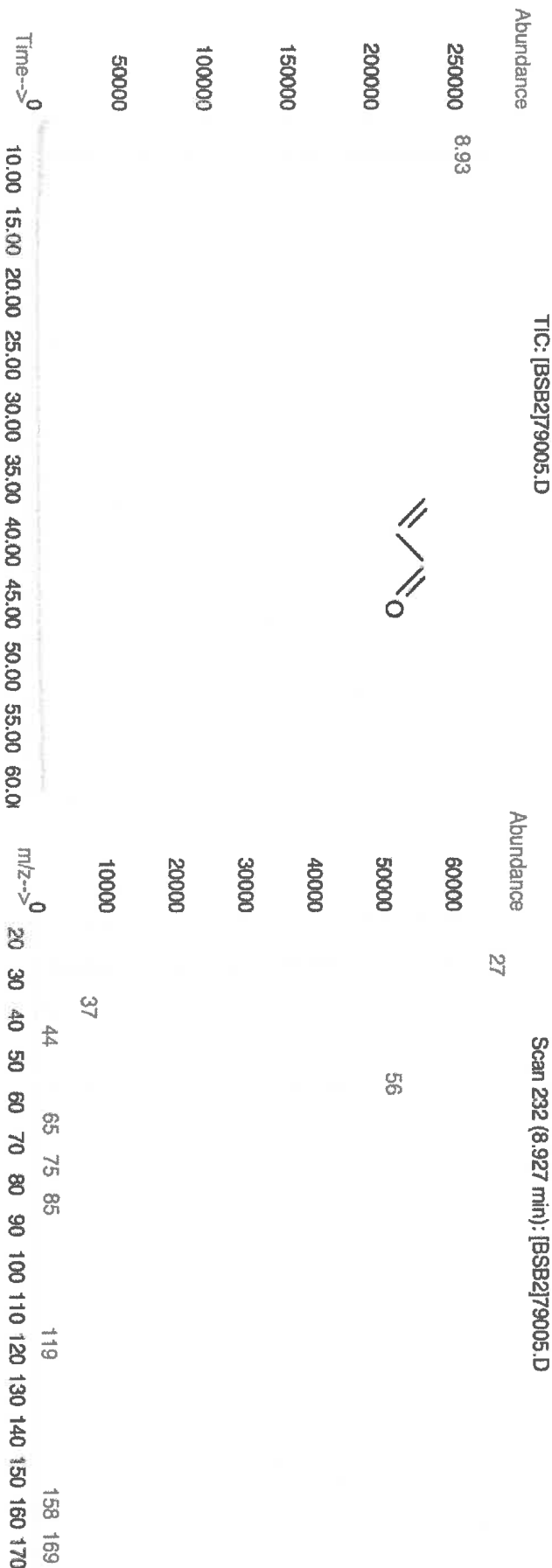
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas
DATE	100724

Expiration Date: 11/07/24
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 20.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.002

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (++) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein 5 103755R02H 5000 97 0.5 0.10307 0.10329 5010.4 51.9 107-02-8 0.1 ppm oil-rat 46mg/kg

Method: GC/MS/MS-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	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.
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

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 WEIGHT REPORT

Part Number: 91980
Lot Number: 100724
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

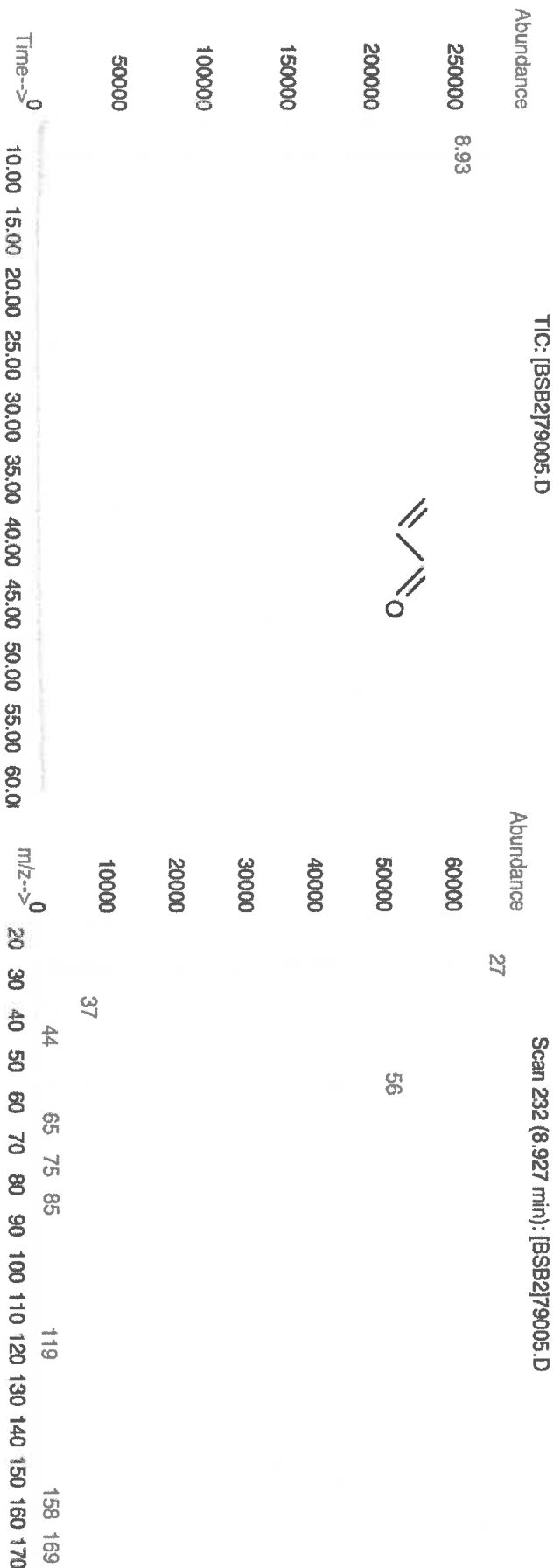
Formulated By:	Lawrence Barry
DATE	100724
Reviewed By:	Pedro L. Rentas
DATE	100724

Expiration Date: 110724
Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 20.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.002

SDS Information
(Solvent Safety Info. On Attached pg.)

1. Acrolein 5 103755R02H 5000 97 0.5 0.10307 0.10329 5010.4 51.9 107-02-8 0.1 ppm oil-rat 46mg/kg

Method: GC/MS/MS-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	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.
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

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 WEIGHT REPORT

Part Number: 91980
Lot Number: 100724
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

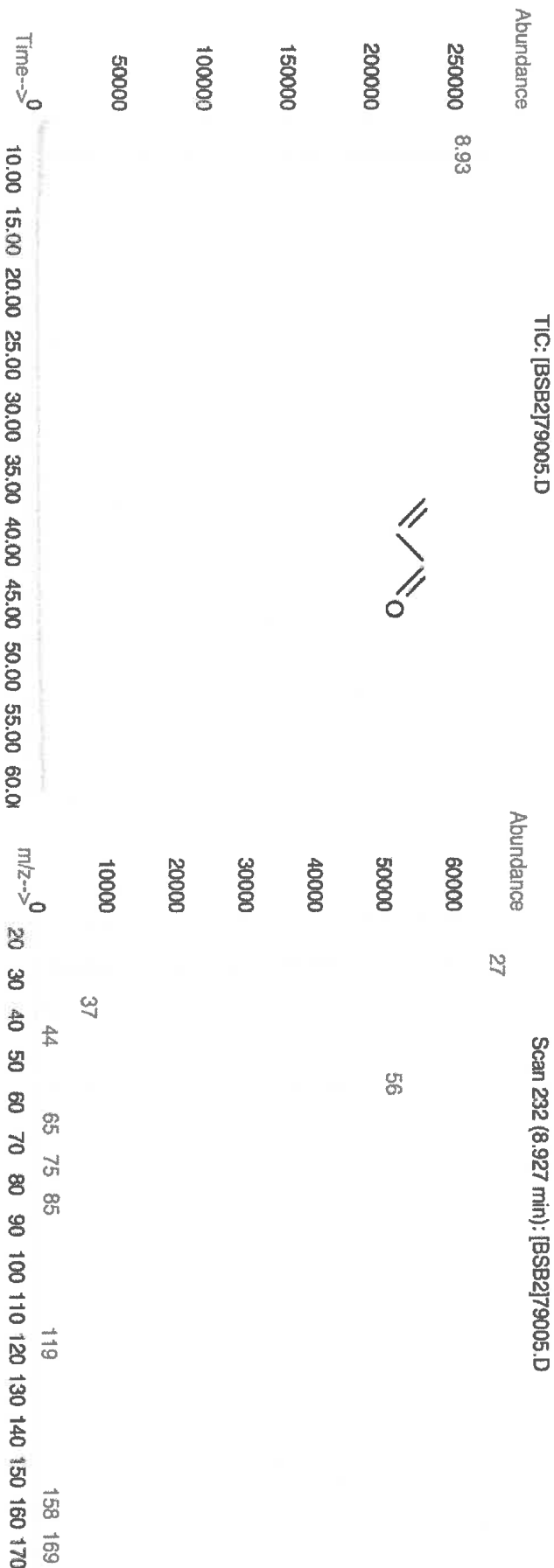
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas
DATE	100724

Expiration Date: 11/07/24
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 20.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.002

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (Solvent Safety Info. On Attached pg.)		CAS#	OSHA PEL (TWA)	LD50
									(+/-) (µg/mL)	(µg/mL)			

1. Acrolein 5 103755R02H 5000 97 0.5 0.10307 0.10329 5010.4 51.9 107-02-8 0.1 ppm oil-rat 46mg/kg

Method: GC/MS/MS-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Overa Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	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.
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

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	NA		NA
Appearance and Odor	Completely miscible 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 WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol
Lot# EA899-US

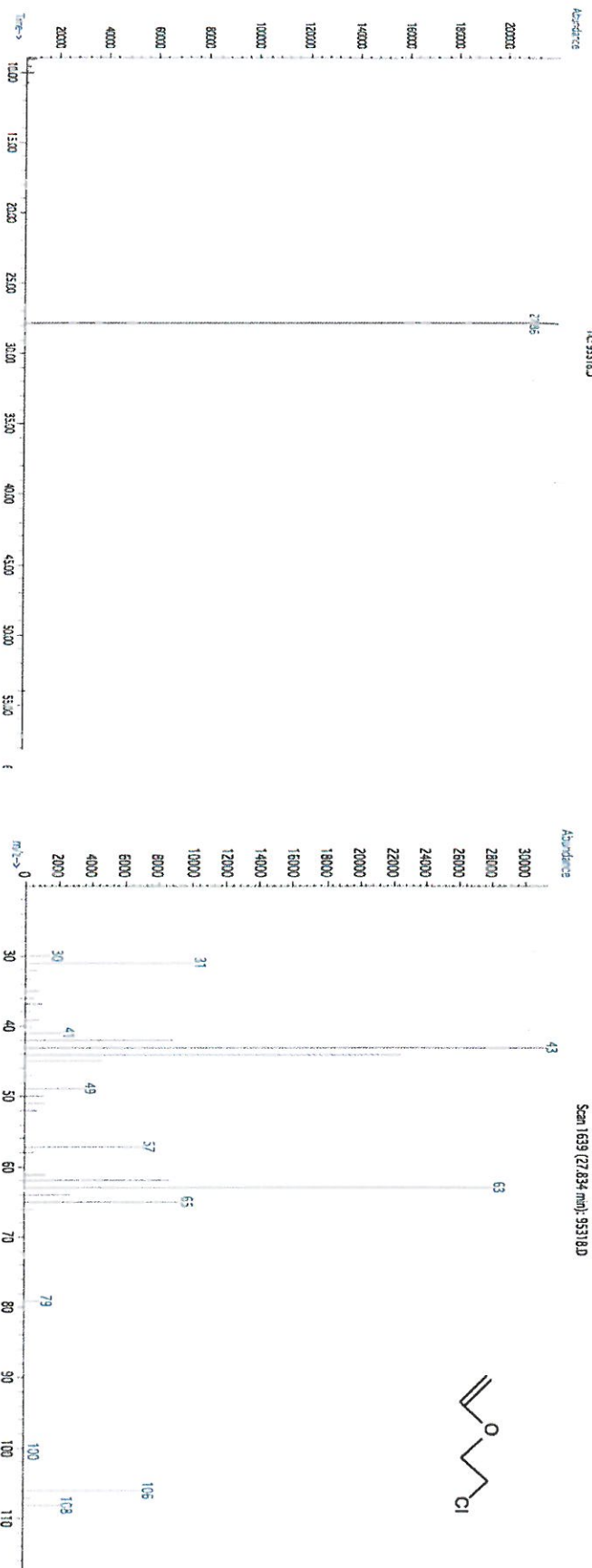
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321
Reviewed By:	Pedro L. Rentes	121321
		DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A		or rat 250mg/kg

Method: GC/MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp=200°C, Detector B Temp.=220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol
Lot# EA899-US

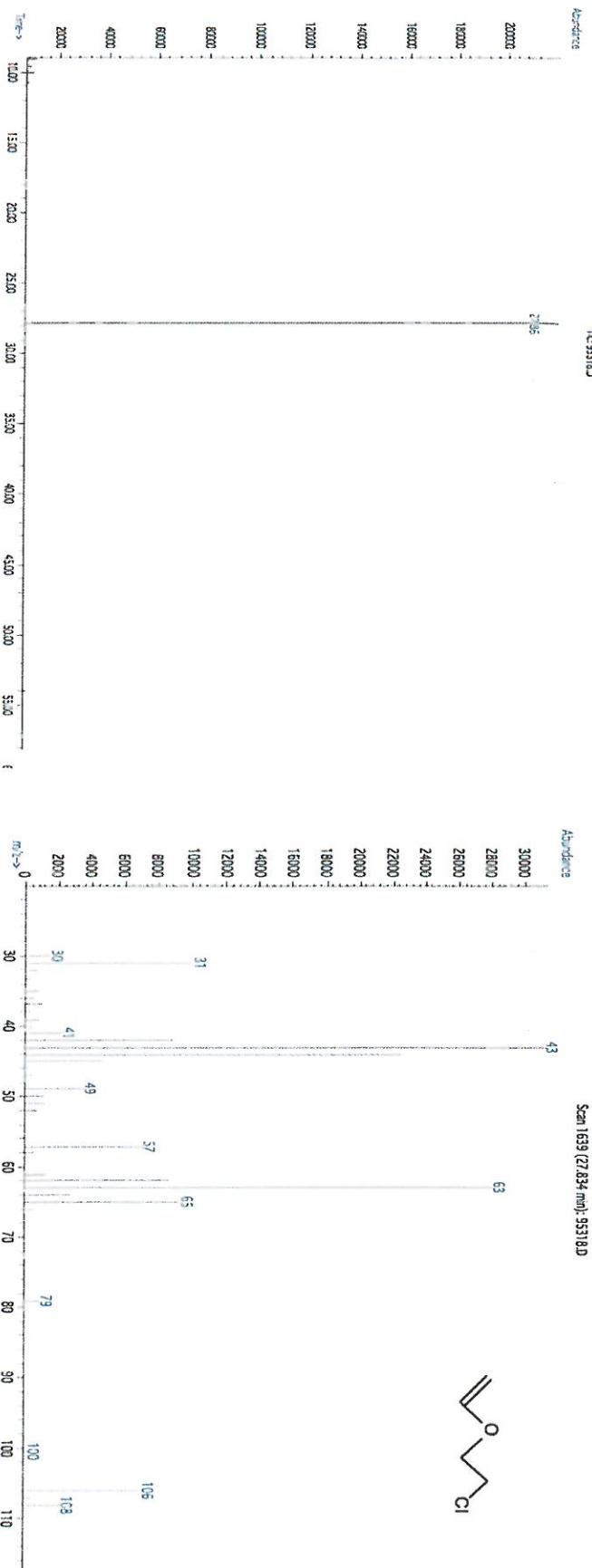
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321
Reviewed By:	Pedro L. Rentes	121321
		DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A		or rat 250mg/kg

Method: GC/MSD-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).



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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 Lot No.: 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:

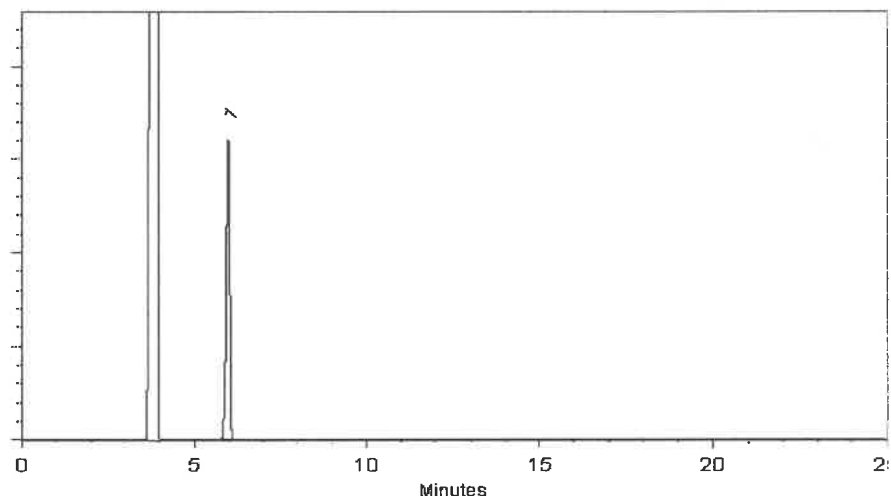
200°C

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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

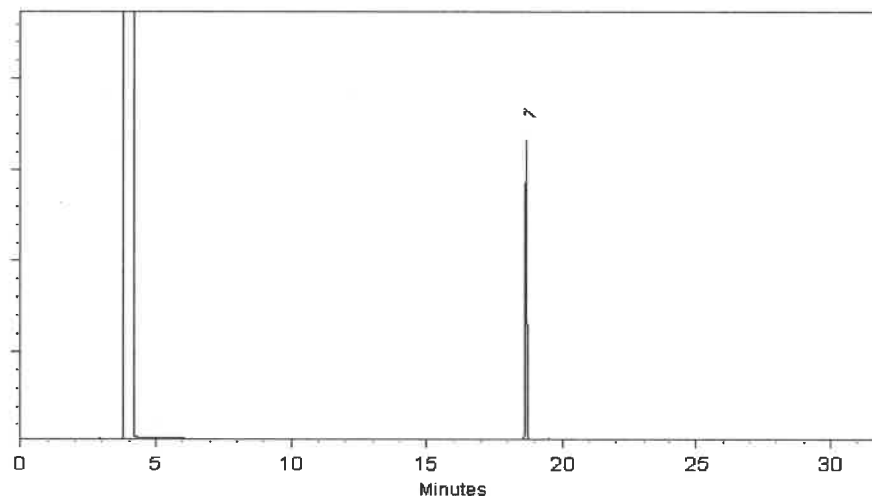
FID

Split Vent:

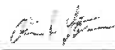
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

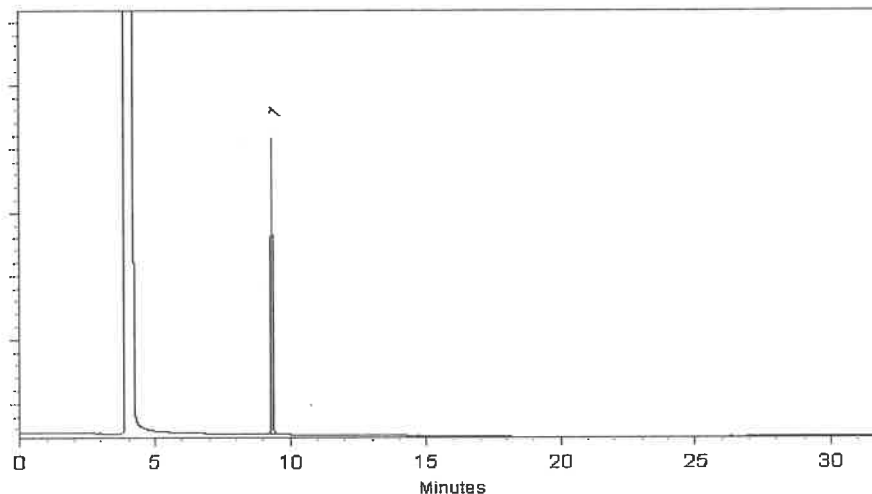
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

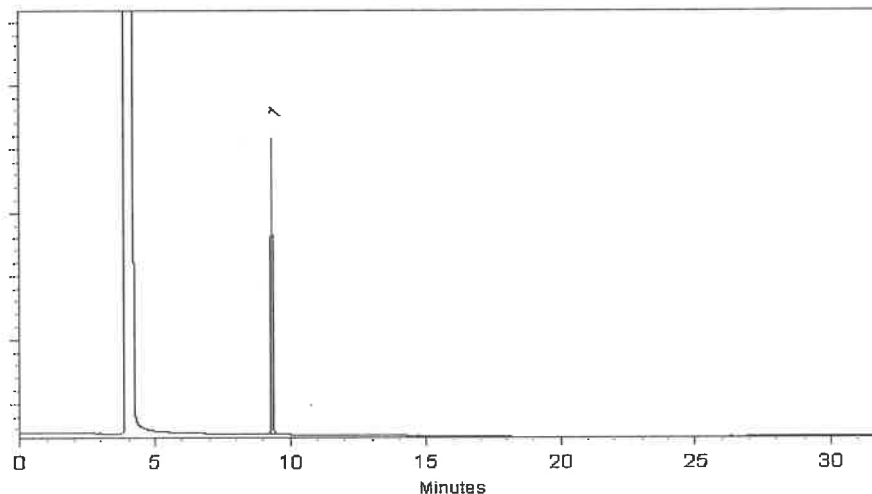
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

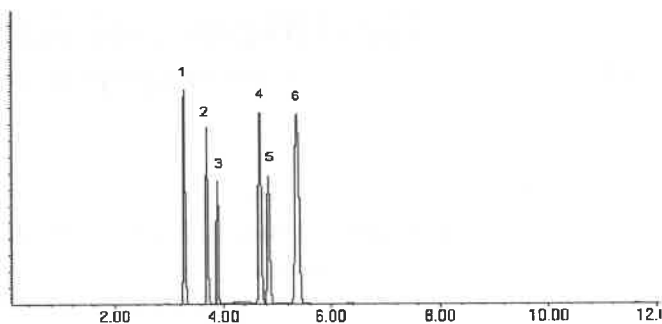
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

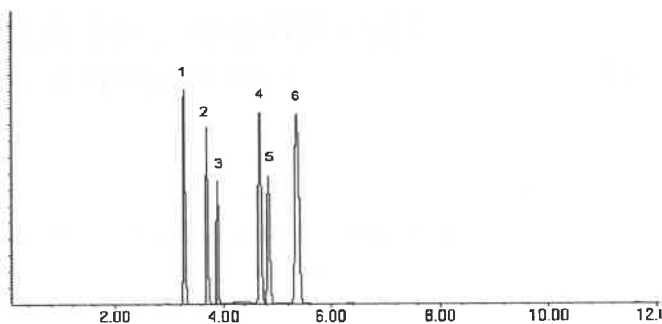
MSD

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.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** 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:

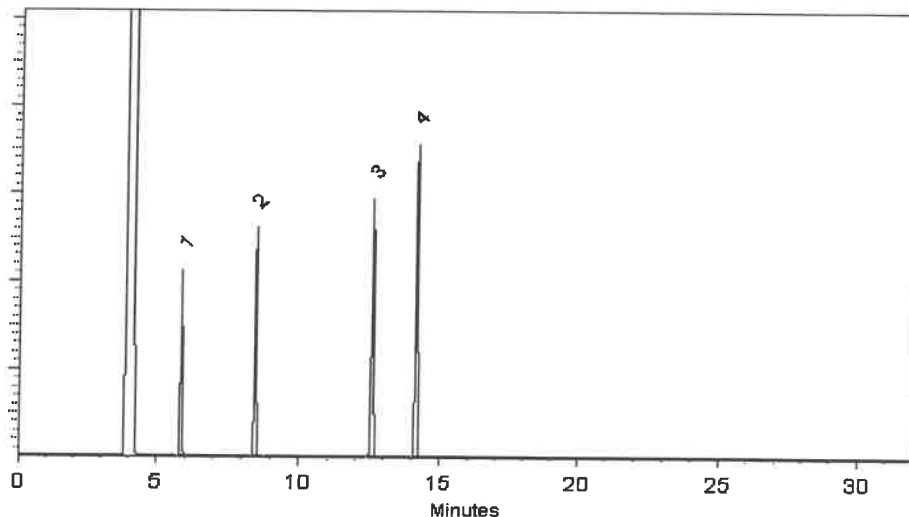
FID

Split Vent:

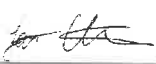
40 ml/min

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.
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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:

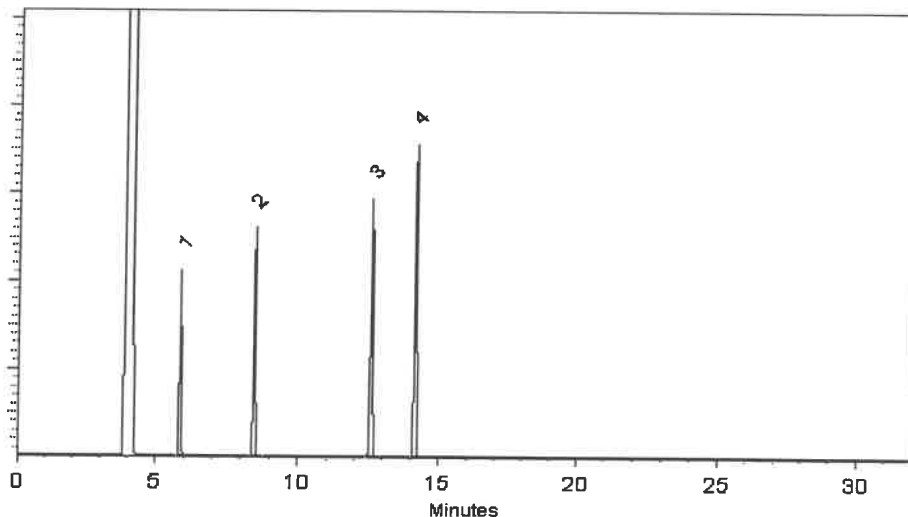
FID

Split Vent:

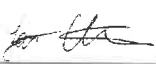
40 ml/min

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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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:

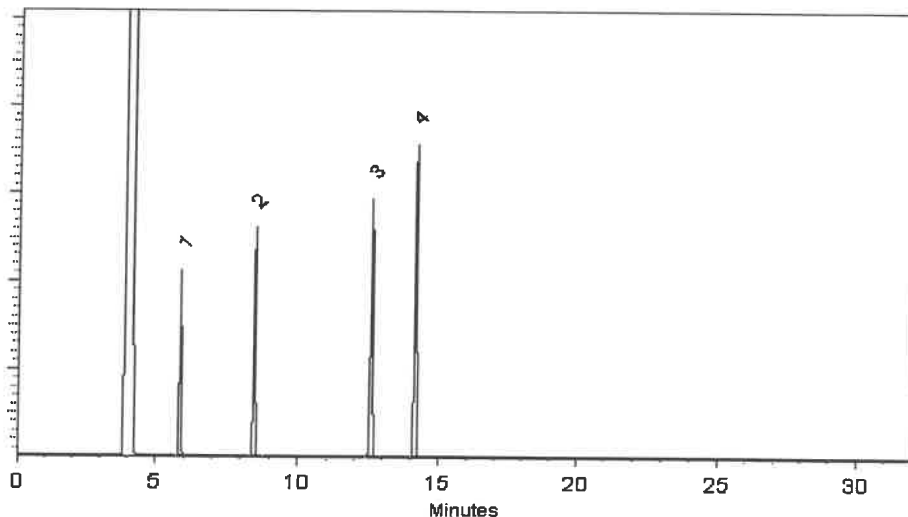
FID

Split Vent:

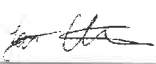
40 ml/min

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. : 555408-SL **Lot No.:** A0205179
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2025 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

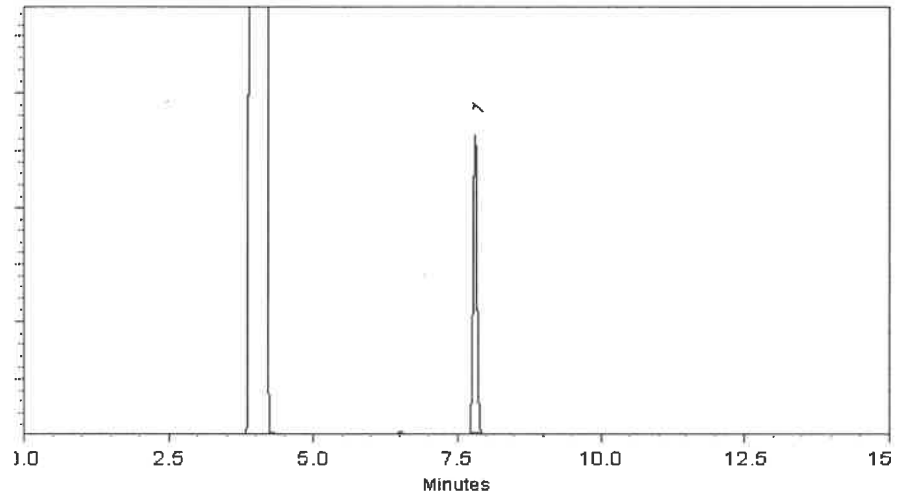
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-2023)

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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:

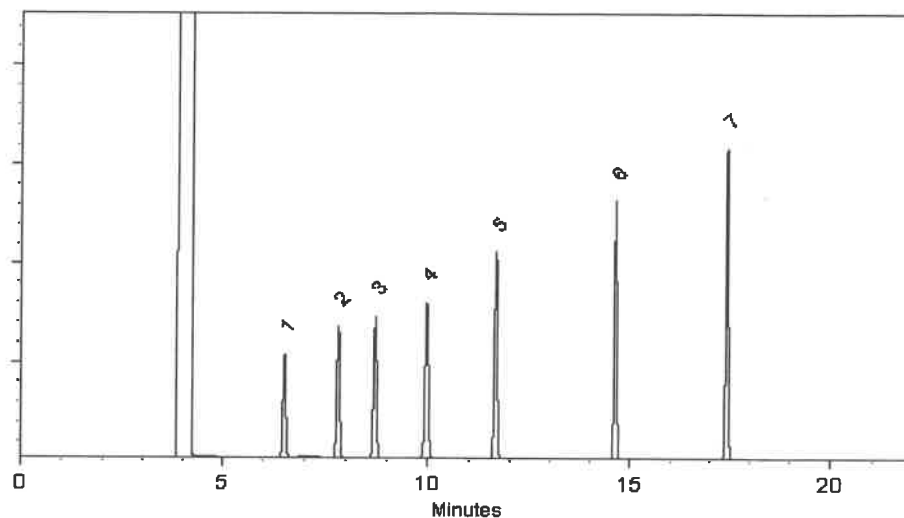
FID

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

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:

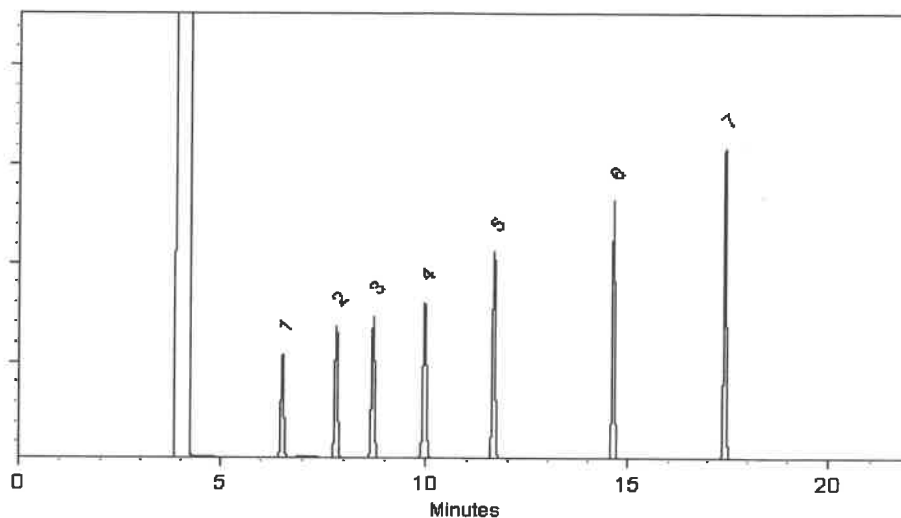
FID

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

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



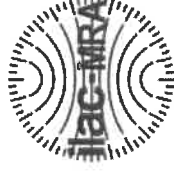
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555581 Lot No.: A0210184

Description: Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix
25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: April 30, 2027 Storage: 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 Balance: 11275.10105



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.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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	25,032.0 µg/mL	+/-	231.6508	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/-	1,415.0433	µg/mL	Unstressed
	Purity 99%		+/-	1,447.6224	µg/mL	Stressed
2	1-Bromo-4-fluorobenzene (BFB)	25,072.0 µg/mL	+/-	232.0210	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/-	1,417.3044	µg/mL	Unstressed
	Purity 99%		+/-	1,449.9357	µg/mL	Stressed
3	Toluene-d8	25,024.0 µg/mL	+/-	231.5768	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-31958)		+/-	1,414.5910	µg/mL	Unstressed
	Purity 99%		+/-	1,447.1598	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Cathleen Soltis - Mix Technician

Date Mixed: 16-Dec-2021 Balance: B251644995

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Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- 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

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Vice President Global Quality



SHIPPING DOCUMENTS



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P4549

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Ln, Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: GW IDW
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetrattech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: _____ 48hr _____ DAYS*
HARD COPY: _____ 48hr _____ DAYS*
EDD _____ 48hr _____ DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format _____

ANALYSIS

VOC's (EPA 624)	pH	Total Metals	PCB's (EPA 8082)						
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		A		B							
1.	TT-TB-20241024	QA		X	10/24/24	10:00	2	2									Trip Blank
2.	TT-067-IDWGW-20241024	AQ		X	10/24/24	14:00	5	2	1	1	1						
3.	TT-068-IDWGW-20241024	AQ		X	10/24/24	14:05	5	2	1	1	1						
4.	TT-069-IDWGW-20241024	AQ		X	10/24/24	14:10	5	2	1	1	1						
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER 1. <u>Dai</u>	DATE/TIME 10/24/24 15:00	RECEIVED BY 1. <u>[Signature]</u> 15:30	Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp <u>30°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler? <u>yes</u>	
RELINQUISHED BY 2. <u>[Signature]</u>	DATE/TIME 10/24/24 15:00	RECEIVED BY 2. <u>[Signature]</u>	Comments: 48hr TAT - CTO-WE13 Drilling GW IDW Sampling - Frac Tank #3291 (TT-050)	
RELINQUISHED BY 3. <u>[Signature]</u>	DATE/TIME 10-24-2024 1905	RECEIVED FOR LAB BY 3. <u>[Signature]</u>	Page <u>1</u> of <u>1</u>	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight
			Shipment Complete ☐ YES ☐ NO	

WHITE - CHEMTECH COPY FOR 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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4549	TETR06	Order Date : 10/24/2024 4:00:00 PM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : CTO WE13	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 10/24/2024 ~~12:00:00~~ AM 19:05	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
P4549-01	TT-TB-20241024	Water	10/24/2024	10:00					
					VOCMS Group4		624.1		2 Bus. Days
P4549-02	TT-067-IDWGW-20241024	Water	10/24/2024	14:00					
					VOCMS Group4		624.1		2 Bus. Days
P4549-03	TT-068-IDWGW-20241024	Water	10/24/2024	14:05					
					VOCMS Group4		624.1		2 Bus. Days
P4549-04	TT-069-IDWGW-20241024	Water	10/24/2024	14:10					
					VOCMS Group4		624.1		2 Bus. Days

Relinquished By :



Date / Time : 10/25/24 0900

Received By :



Date / Time : 10/25/24 0900 12845

Storage Area : VOA Refridgerator Room