

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078332.D
 Acq On : 21 Jun 2023 19:11
 Operator : JC\MD
 Sample : 03337-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-17

Quant Time: Jun 22 04:54:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

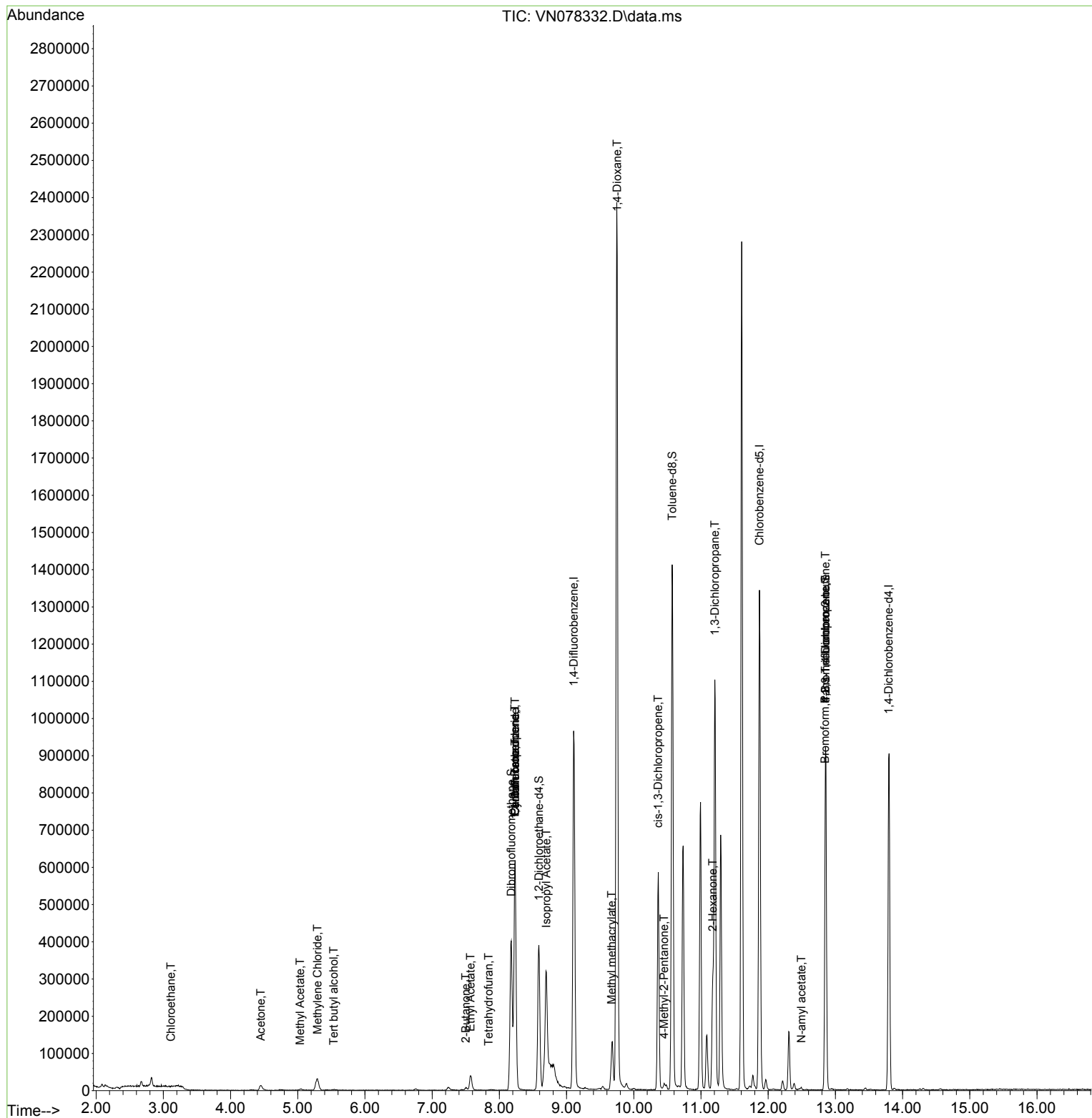
Internal Standards						
1) Pentafluorobenzene	8.235	168	442734	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	849001	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	798895	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	250540	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	320183	54.241	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.480%	
35) Dibromofluoromethane	8.177	113	289506	53.931	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.860%	
50) Toluene-d8	10.570	98	1013493	48.974	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.940%	
62) 4-Bromofluorobenzene	12.853	95	330810	51.420	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1273	Below Cal	#	72
6) Chloroethane	3.112	64	1959	0.439	ug/l #	43
11) Tert butyl alcohol	5.536	59	2188	2.684	ug/l #	81
16) Acetone	4.447	43	26004	15.305	ug/l	93
18) Methyl Acetate	5.036	43	6743	0.862	ug/l #	84
20) Methylene Chloride	5.294	84	25540	4.549	ug/l #	95
25) 2-Butanone	7.500	43	10078	3.857	ug/l	91
29) Tetrahydrofuran	7.841	42	582	0.333	ug/l #	30
31) Cyclohexane	8.235	56	10898	1.439	ug/l #	23
36) 1,1-Dichloropropene	8.229	75	38553	5.007	ug/l #	47
37) Ethyl Acetate	7.571	43	59295	9.858	ug/l #	94
38) Carbon Tetrachloride	8.235	117	48417	5.955	ug/l #	14
43) Isopropyl Acetate	8.700	43	419505	36.467	ug/l #	74
48) Methyl methacrylate	9.671	41	8330	1.725	ug/l #	3
49) 1,4-Dioxane	9.753	88	654	6.445	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	8581	1.417	ug/l	98
54) cis-1,3-Dichloropropene	10.365	75	106575	11.830	ug/l #	69
57) 1,3-Dichloropropane	11.206	76	10994	1.186	ug/l #	46
59) 2-Hexanone	11.176	43	243113	57.637	ug/l #	19
71) Bromoform	12.847	173	3010	0.741	ug/l #	1
74) N-amyl acetate	12.494	43	1742	0.223	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.959	83	176	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	174141	29.401	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	174141	90.331	ug/l #	15

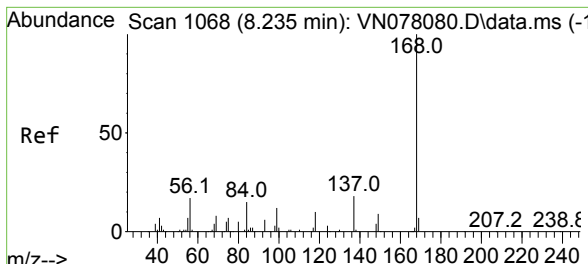
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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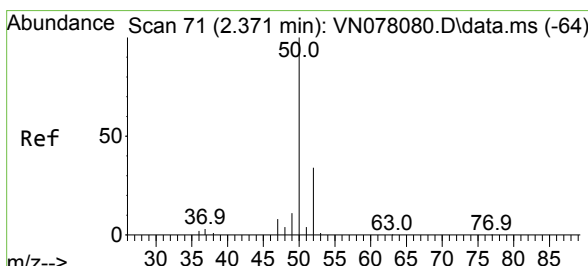
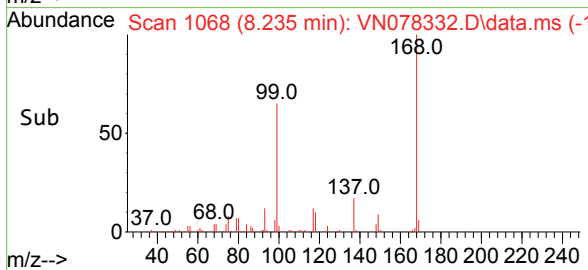
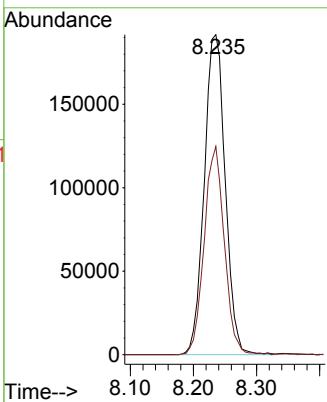
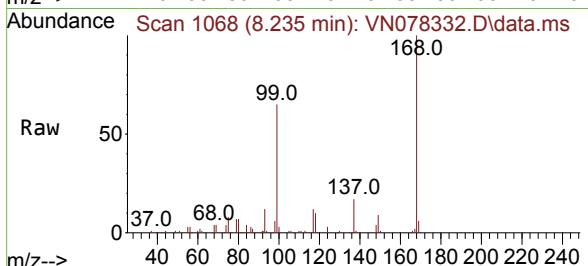




#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.235 min Scan# 10
 Delta R.T. 0.000 min
 Lab File: VN078332.D
 Acq: 21 Jun 2023 19:11

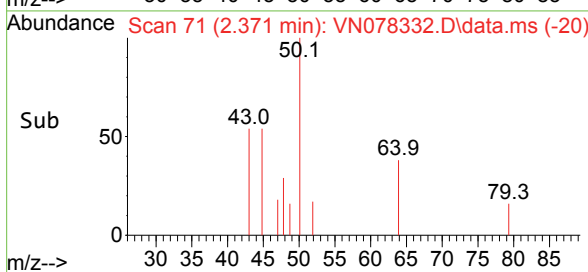
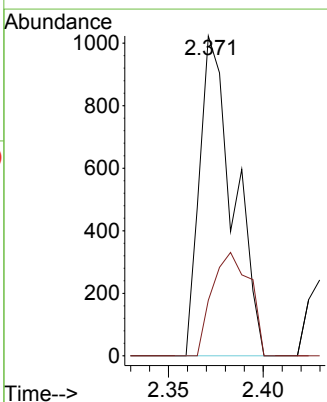
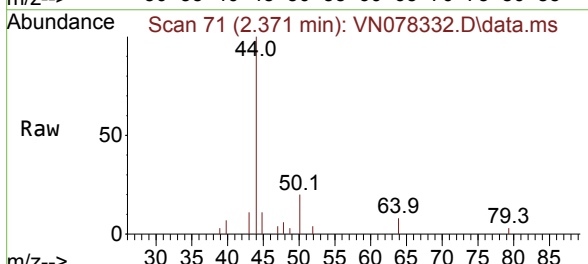
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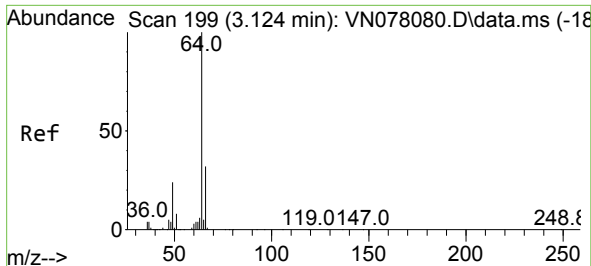
Tgt Ion:168 Resp: 442734
 Ion Ratio Lower Upper
 168 100
 99 65.0 53.0 79.6



#3
 Chloromethane
 Concen: Below Cal
 RT: 2.371 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VN078332.D
 Acq: 21 Jun 2023 19:11

Tgt Ion: 50 Resp: 1273
 Ion Ratio Lower Upper
 50 100
 52 17.4 26.5 39.7#

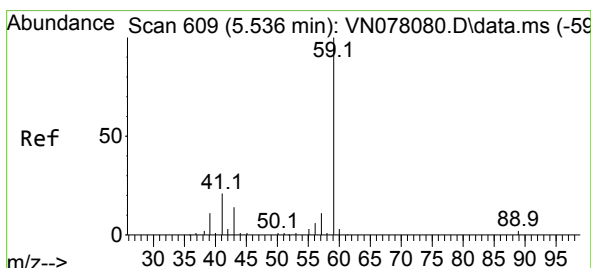
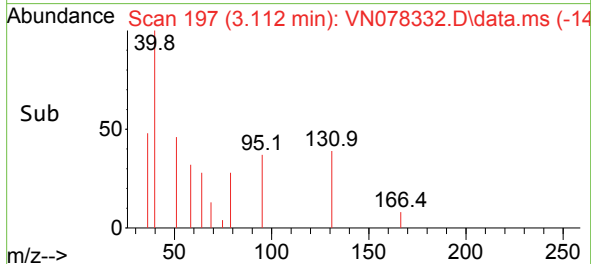
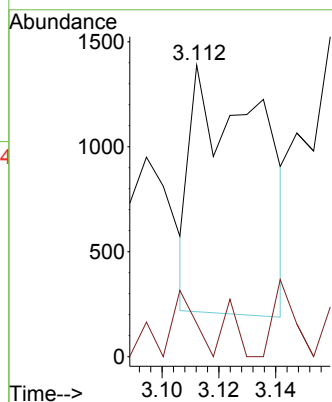
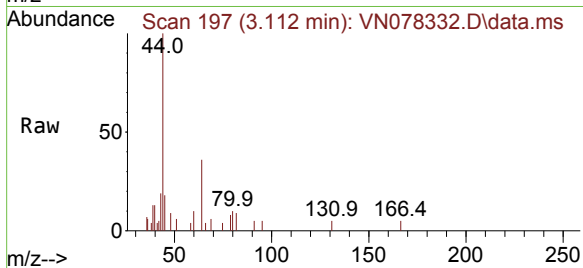




#6
Chloroethane
Concen: 0.439 ug/l
RT: 3.112 min Scan# 19
Delta R.T. -0.012 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

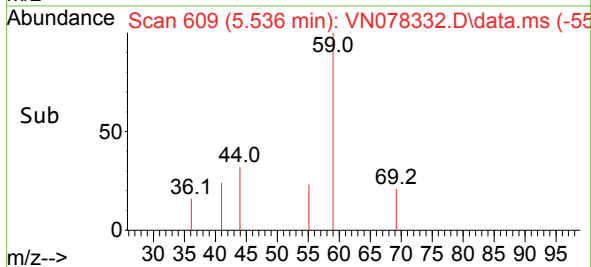
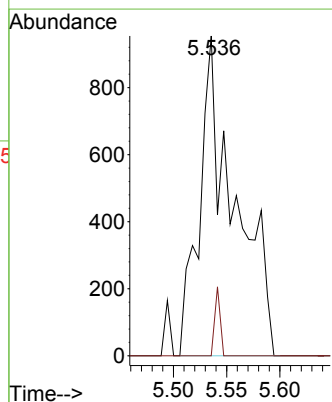
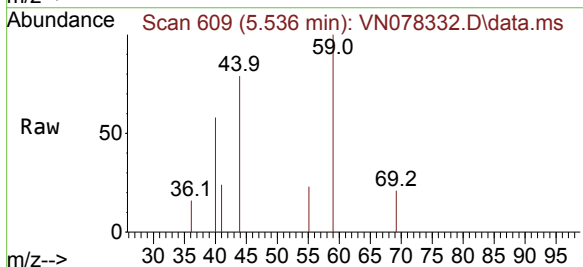
Instrument :
MSVOA_N
ClientSampleId :
WC-17

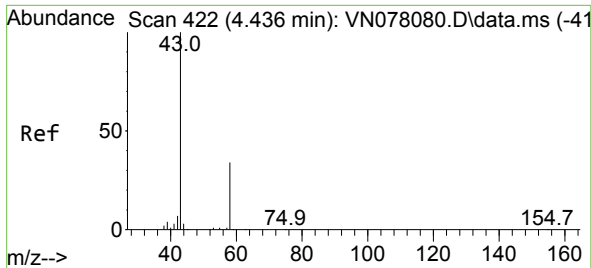
Tgt Ion: 64 Resp: 1959
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 2.684 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion: 59 Resp: 2188
Ion Ratio Lower Upper
59 100
57 3.3 8.2 12.4#

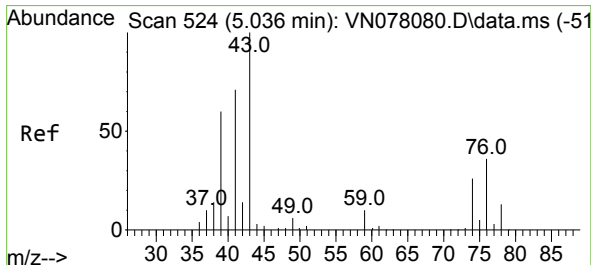
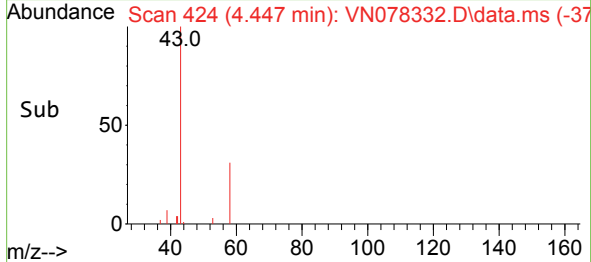
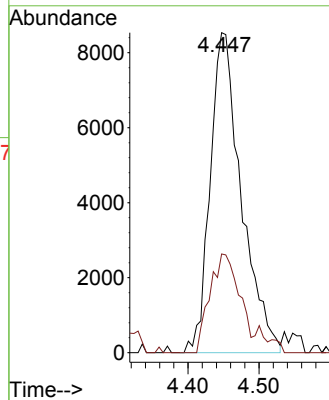
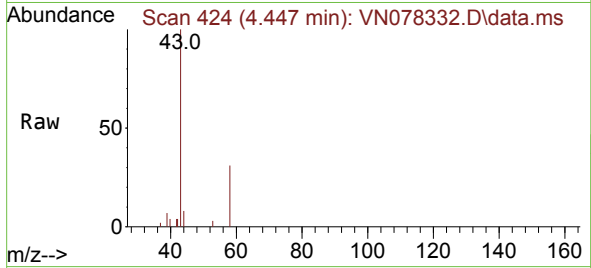




#16
Acetone
Concen: 15.305 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

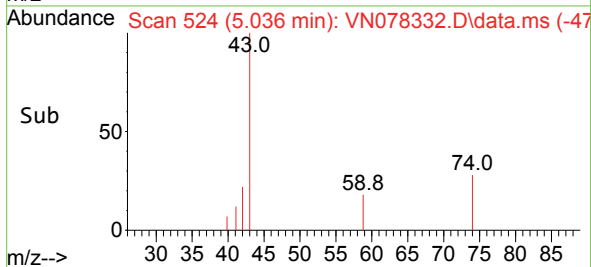
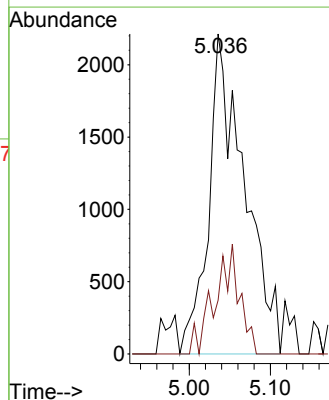
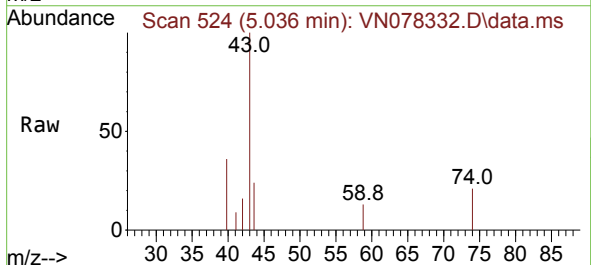
Instrument :
MSVOA_N
ClientSampleId :
WC-17

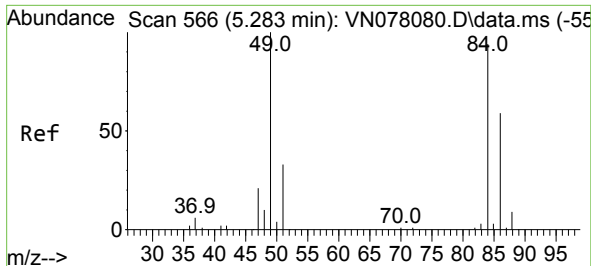
Tgt Ion: 43 Resp: 26004
Ion Ratio Lower Upper
43 100
58 30.9 28.0 42.0



#18
Methyl Acetate
Concen: 0.862 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion: 43 Resp: 6743
Ion Ratio Lower Upper
43 100
74 23.6 26.2 39.4#

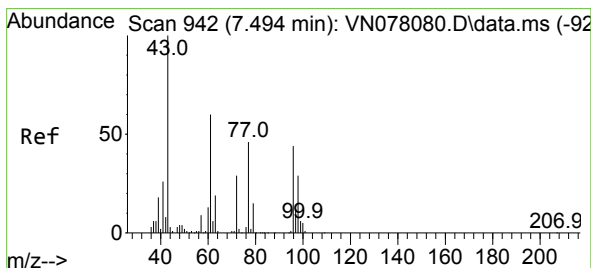
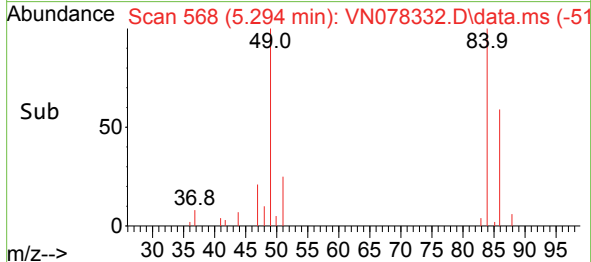
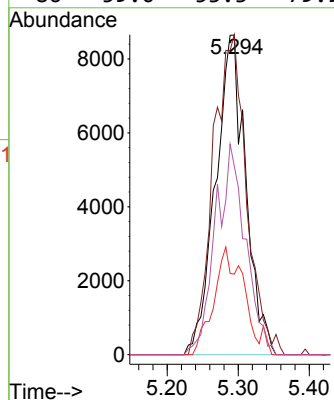
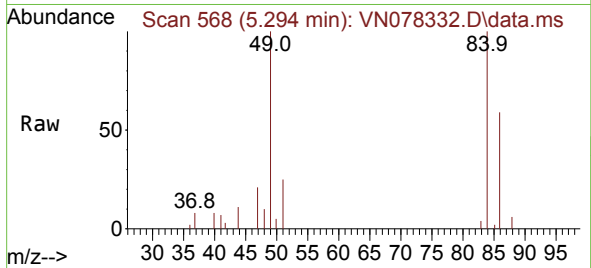




#20
Methylene Chloride
Concen: 4.549 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

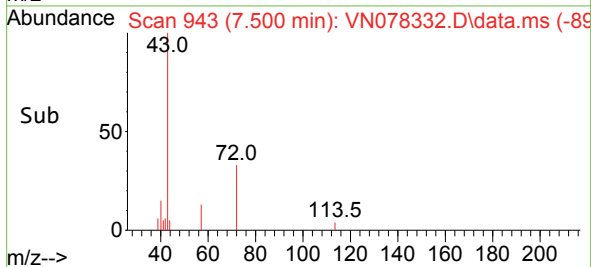
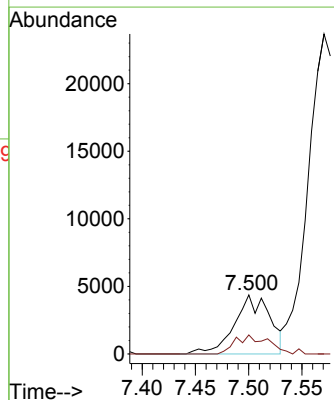
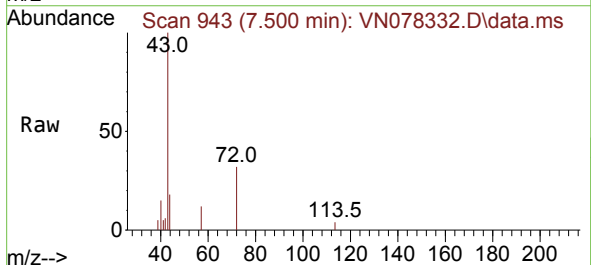
Instrument :
MSVOA_N
ClientSampleId :
WC-17

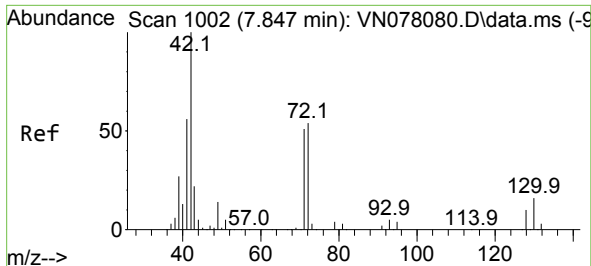
Tgt Ion: 84	Resp: 25540
Ion Ratio	Lower Upper
84 100	
49 100.1	79.7 119.5
51 25.2	25.2 37.8#
86 59.0	53.3 79.9



#25
2-Butanone
Concen: 3.857 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion: 43	Resp: 10078
Ion Ratio	Lower Upper
43 100	
72 32.3	30.2 45.2





#29

Tetrahydrofuran

Concen: 0.333 ug/l

RT: 7.841 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN078332.D

Acq: 21 Jun 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

WC-17

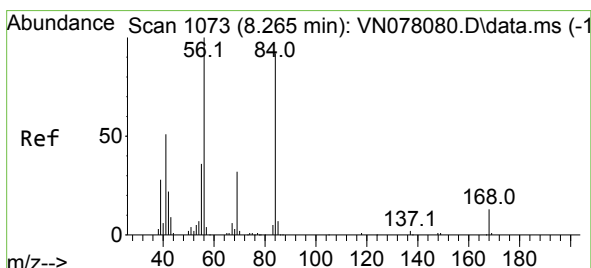
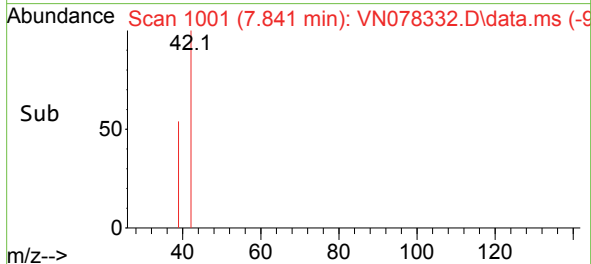
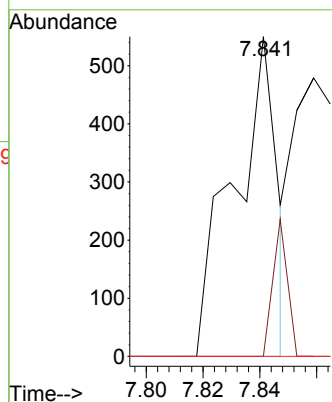
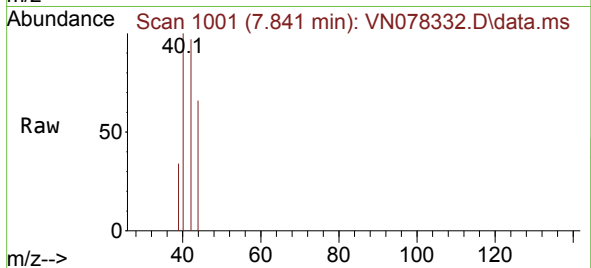
Tgt Ion: 42 Resp: 582

Ion Ratio Lower Upper

42 100

72 14.3 49.8 74.6#

71 0.0 47.4 71.2#



#31

Cyclohexane

Concen: 1.439 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.030 min

Lab File: VN078332.D

Acq: 21 Jun 2023 19:11

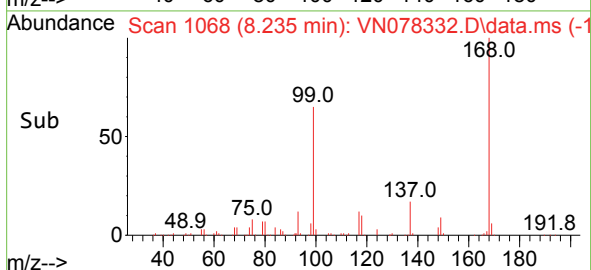
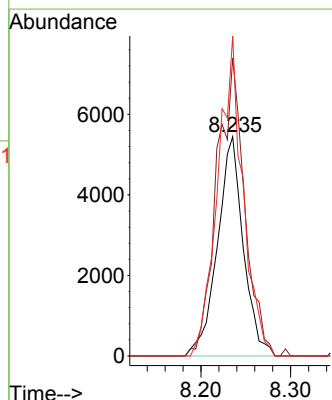
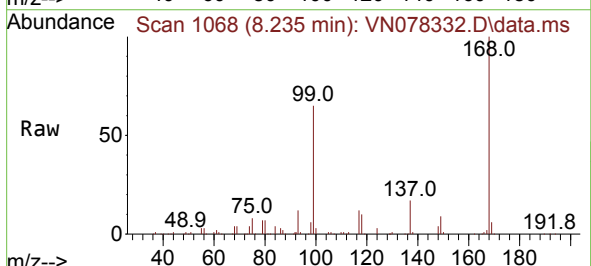
Tgt Ion: 56 Resp: 10898

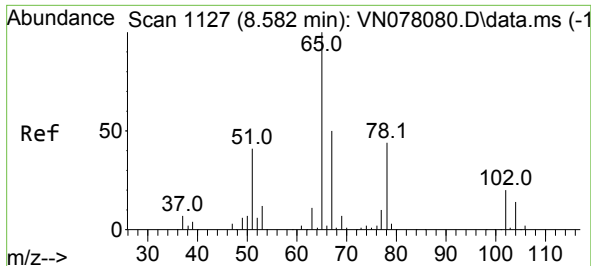
Ion Ratio Lower Upper

56 100

69 136.0 26.8 40.2#

84 146.0 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 54.241 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078332.D

Acq: 21 Jun 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

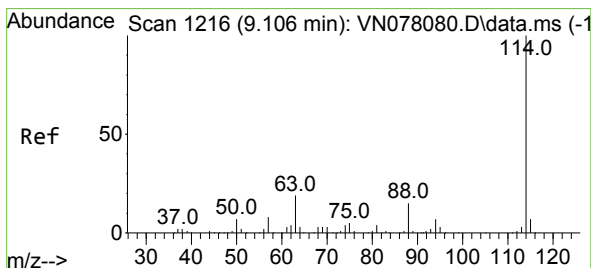
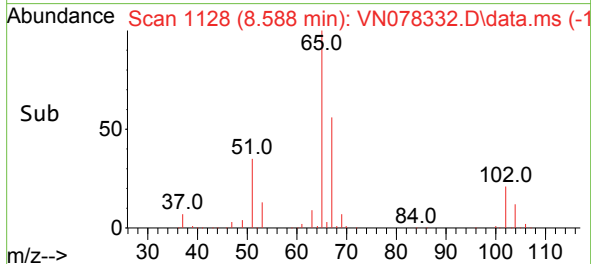
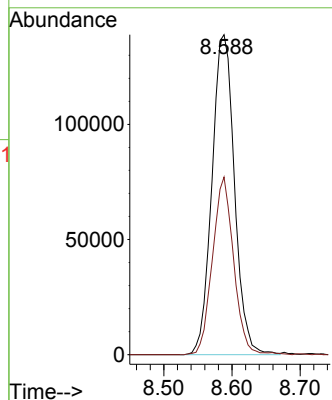
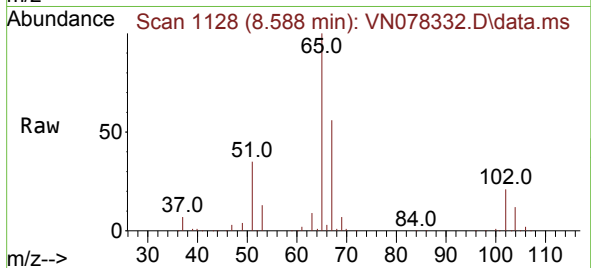
WC-17

Tgt Ion: 65 Resp: 320183

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078332.D

Acq: 21 Jun 2023 19:11

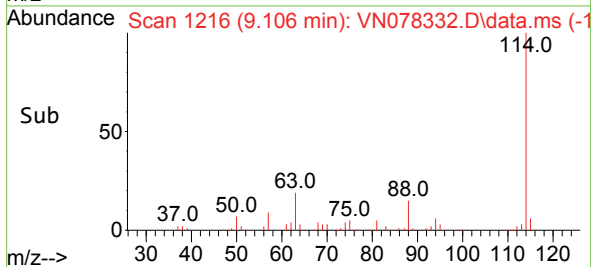
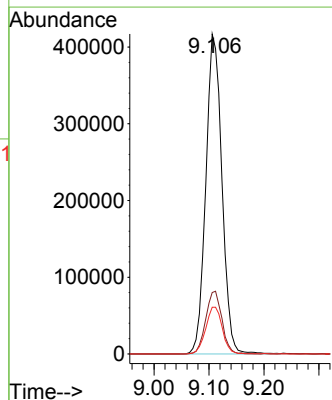
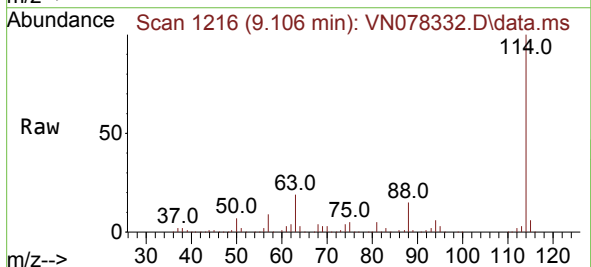
Tgt Ion: 114 Resp: 849001

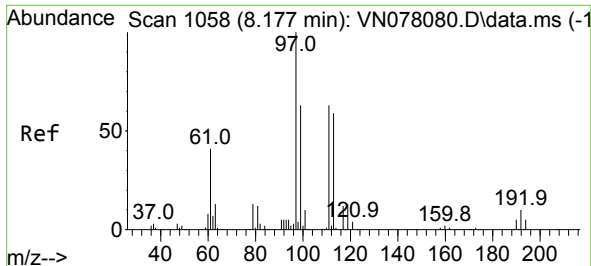
Ion Ratio Lower Upper

114 100

63 19.2 0.0 36.4

88 14.6 0.0 30.6

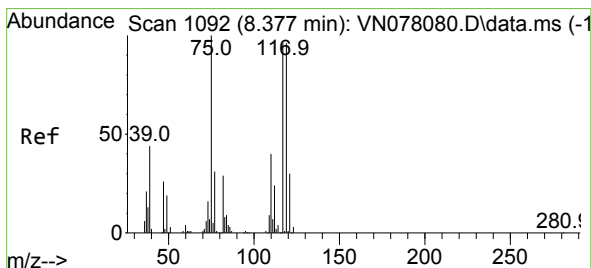
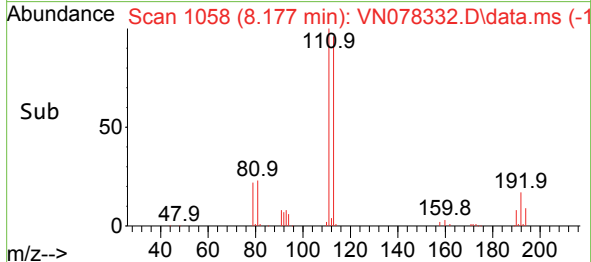
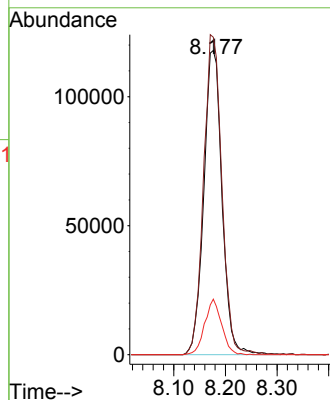
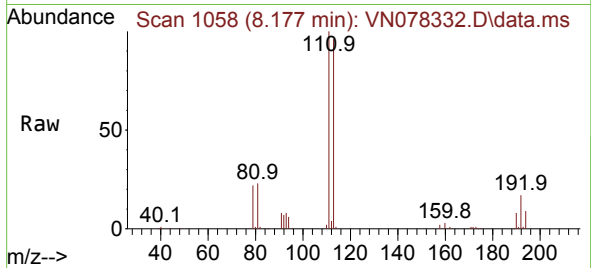




#35
 Dibromofluoromethane
 Concen: 53.931 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. -0.000 min
 Lab File: VN078332.D
 Acq: 21 Jun 2023 19:11

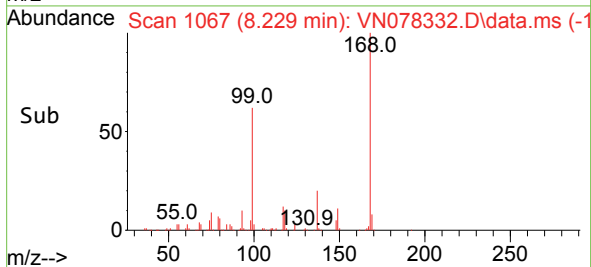
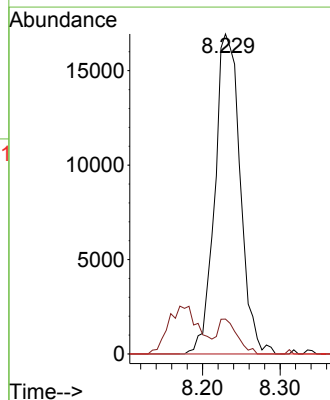
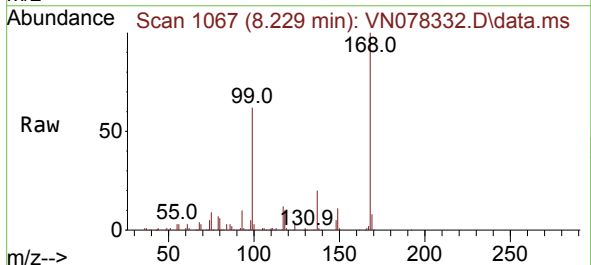
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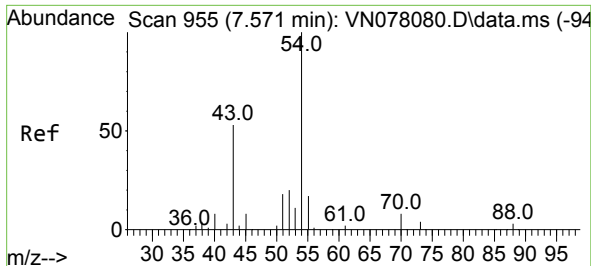
Tgt Ion:113 Resp: 289506
 Ion Ratio Lower Upper
 113 100
 111 105.2 82.6 123.8
 192 16.9 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 5.007 ug/l
 RT: 8.229 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN078332.D
 Acq: 21 Jun 2023 19:11

Tgt Ion: 75 Resp: 38553
 Ion Ratio Lower Upper
 75 100
 110 8.4 19.1 57.3#
 77 0.0 25.0 37.4#

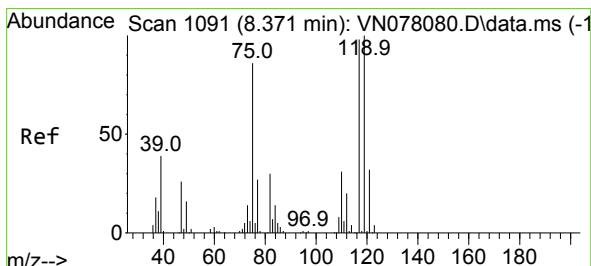
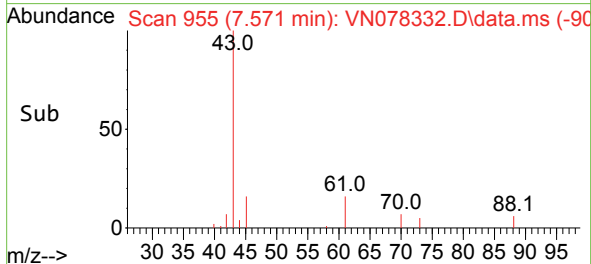
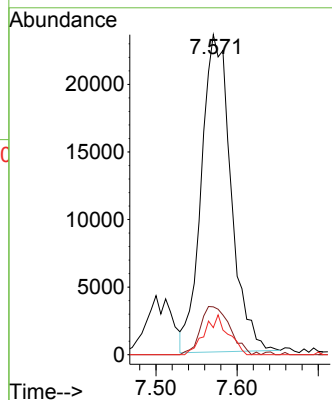
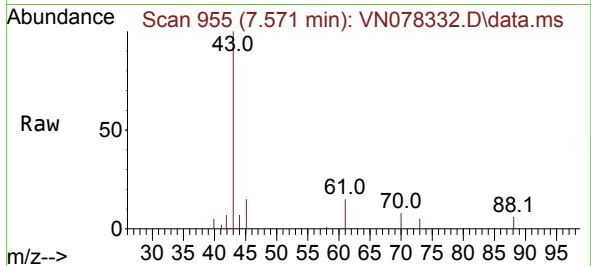




#37
Ethyl Acetate
Concen: 9.858 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

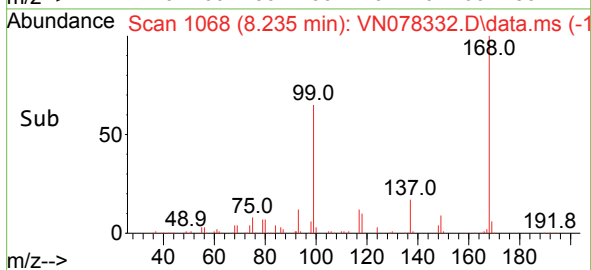
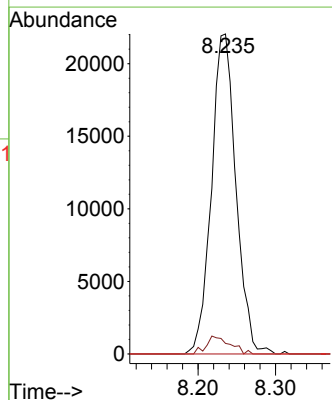
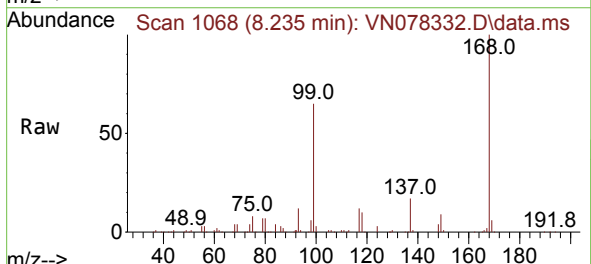
Instrument :
MSVOA_N
ClientSampleId :
WC-17

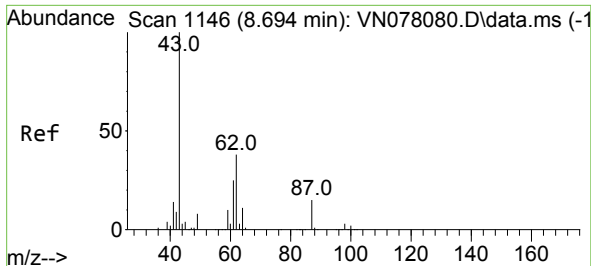
Tgt Ion:	43	Resp:	59295
Ion	Ratio	Lower	Upper
43	100		
61	15.2	13.2	19.8
70	10.0	11.3	16.9



#38
Carbon Tetrachloride
Concen: 5.955 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion:	117	Resp:	48417
Ion	Ratio	Lower	Upper
117	100		
119	3.3	77.3	115.9
121	0.0	23.3	34.9

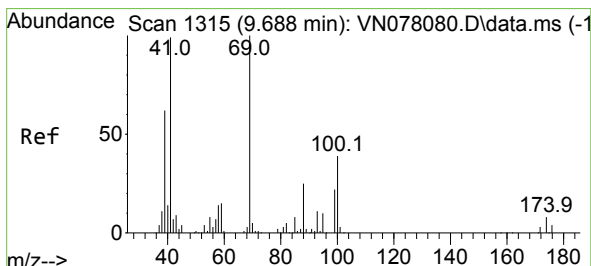
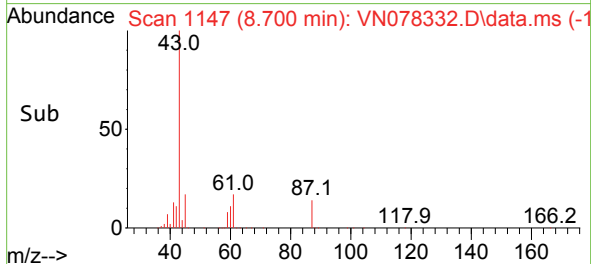
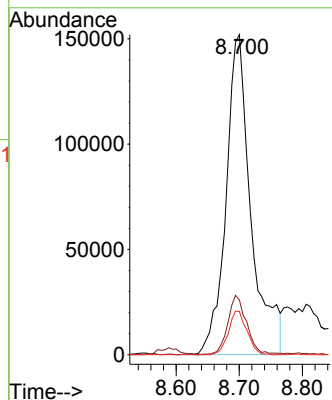
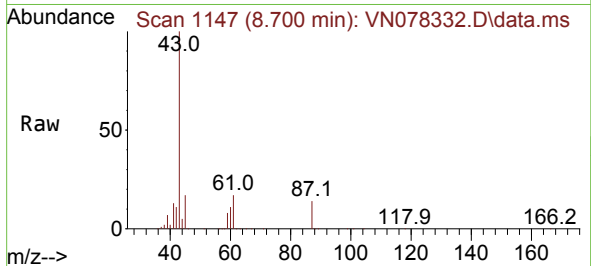




#43
Isopropyl Acetate
Concen: 36.467 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

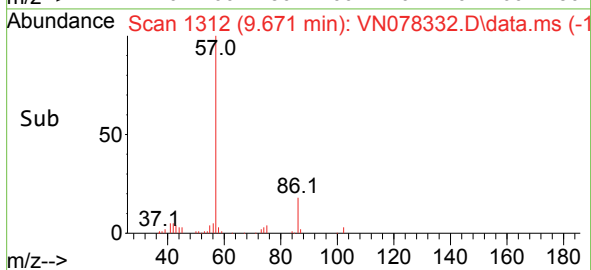
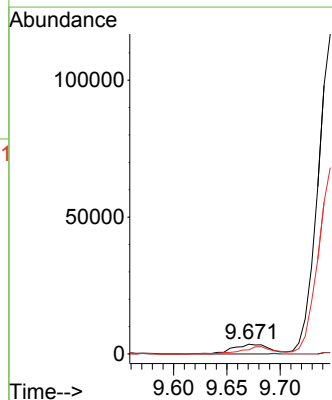
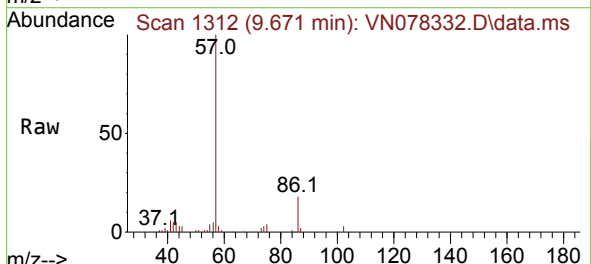
Instrument :
MSVOA_N
ClientSampleId :
WC-17

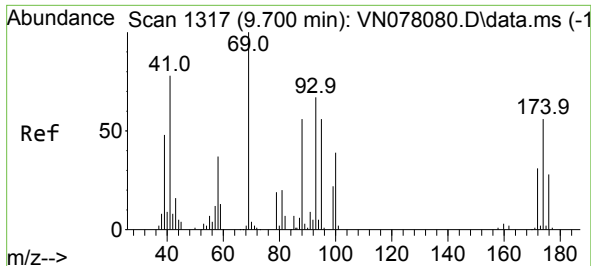
Tgt Ion: 43 Resp: 419505
Ion Ratio Lower Upper
43 100
61 14.1 24.7 37.1#
87 10.0 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.725 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion: 41 Resp: 8330
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#





#49

1,4-Dioxane

Concen: 6.445 ug/l

RT: 9.753 min Scan# 1317

Delta R.T. 0.053 min

Lab File: VN078332.D

Acq: 21 Jun 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

WC-17

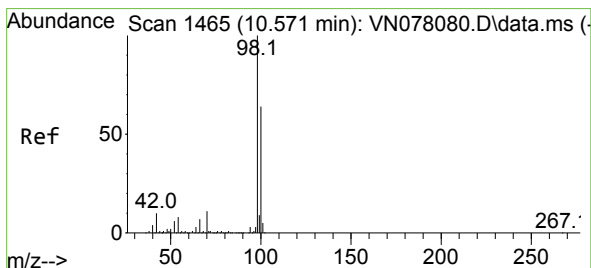
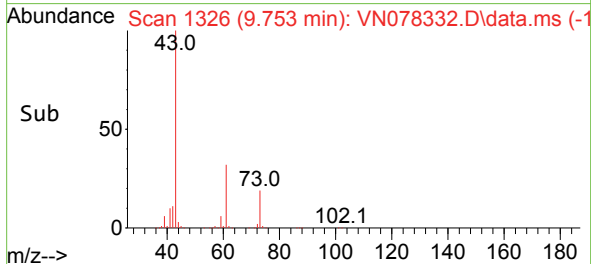
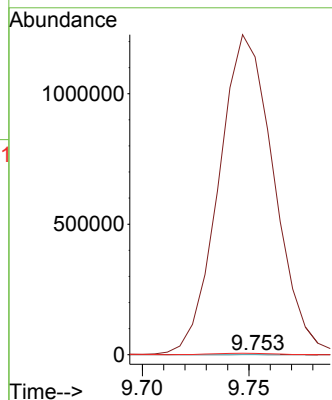
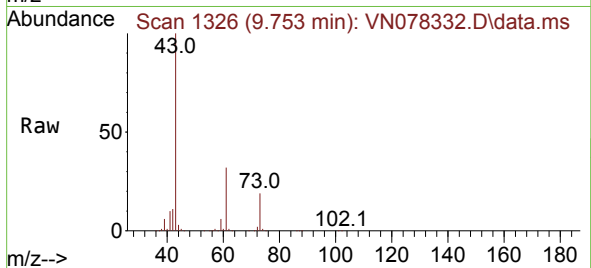
Tgt Ion: 88 Resp: 654

Ion Ratio Lower Upper

88 100

43 341254.4 17.0 25.6#

58 1665.0 47.0 70.4#



#50

Toluene-d8

Concen: 48.974 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078332.D

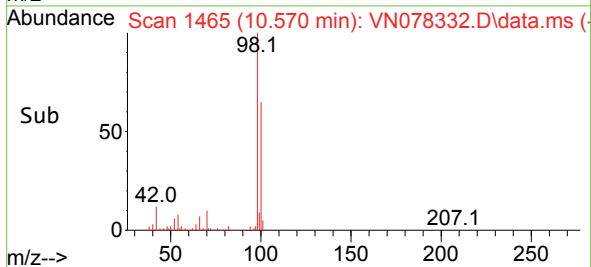
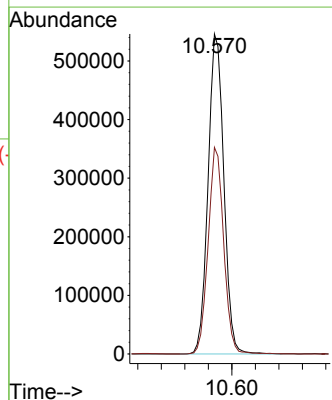
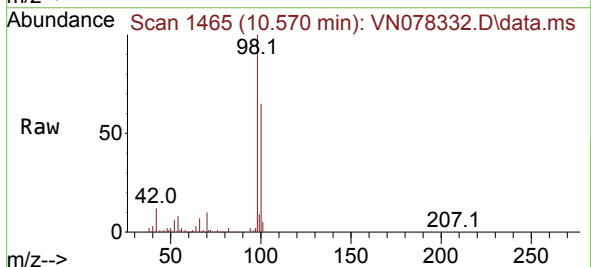
Acq: 21 Jun 2023 19:11

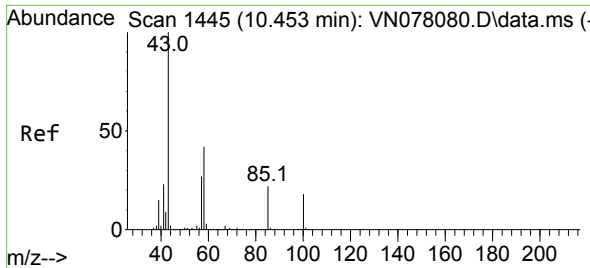
Tgt Ion: 98 Resp: 1013493

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0

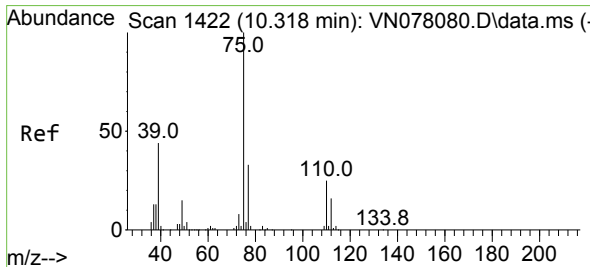
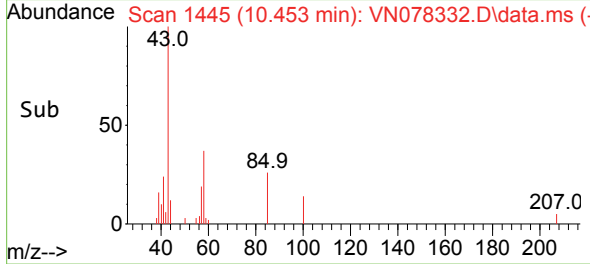
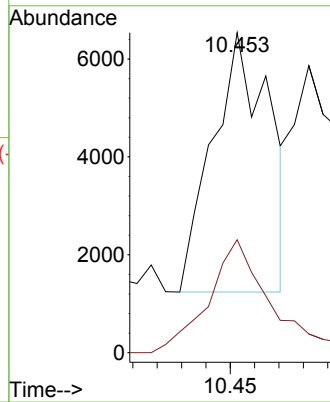
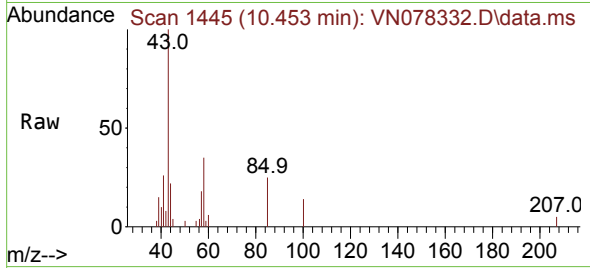




#51
4-Methyl-2-Pentanone
Concen: 1.417 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

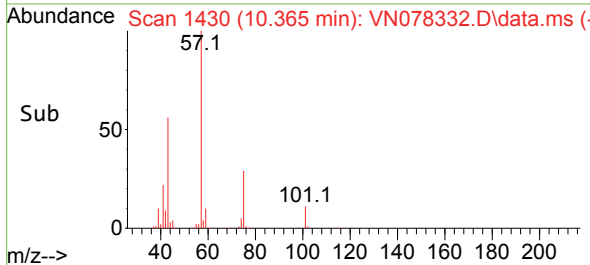
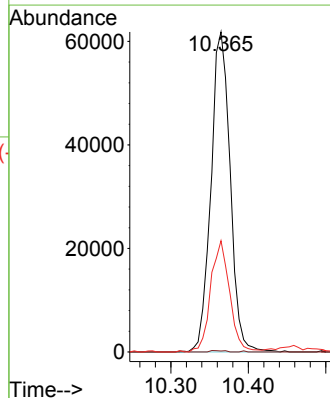
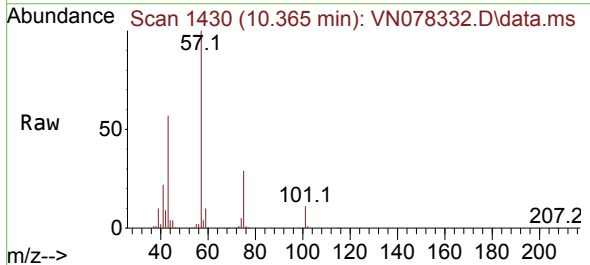
Instrument :
MSVOA_N
ClientSampleId :
WC-17

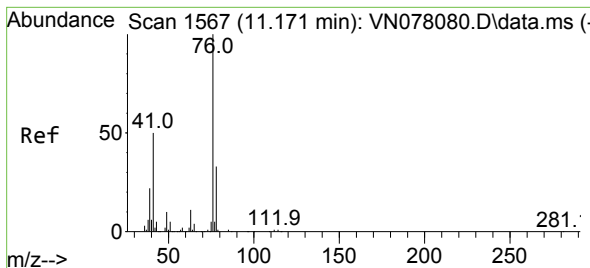
Tgt Ion: 43 Resp: 8581
Ion Ratio Lower Upper
43 100
58 46.7 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 11.830 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion: 75 Resp: 106575
Ion Ratio Lower Upper
75 100
77 0.3 26.1 39.1#
39 34.3 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.186 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078332.D

Acq: 21 Jun 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

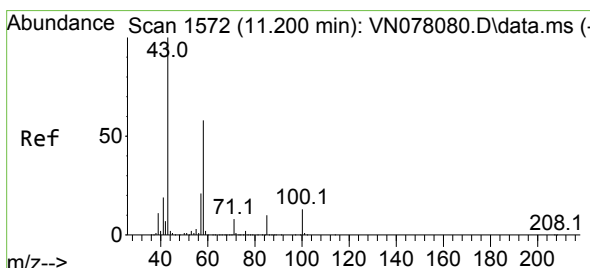
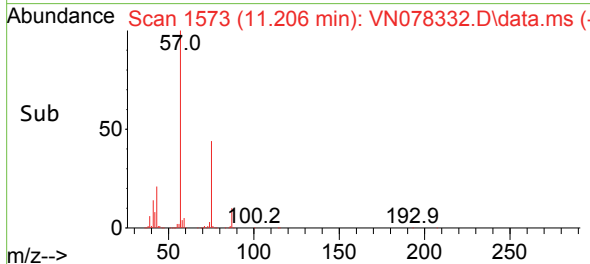
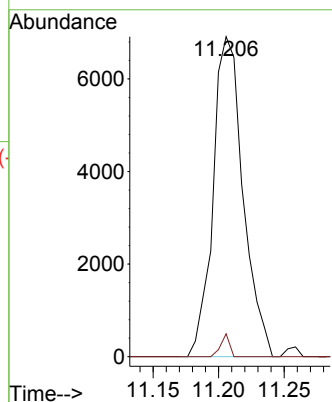
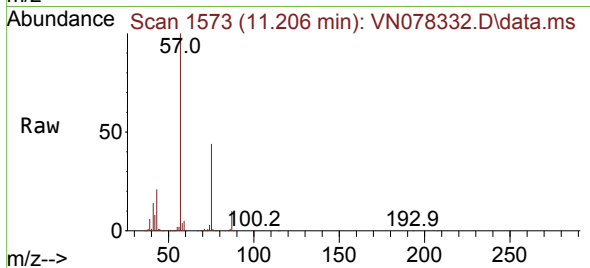
WC-17

Tgt Ion: 76 Resp: 10994

Ion Ratio Lower Upper

76 100

78 2.1 26.1 39.1#



#59

2-Hexanone

Concen: 57.637 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078332.D

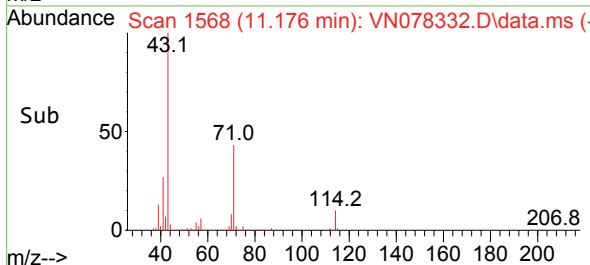
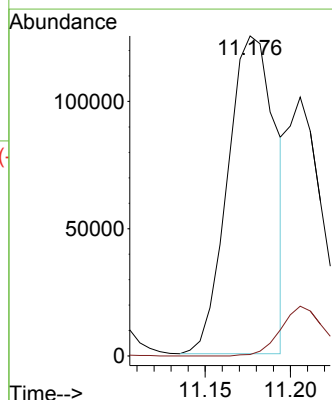
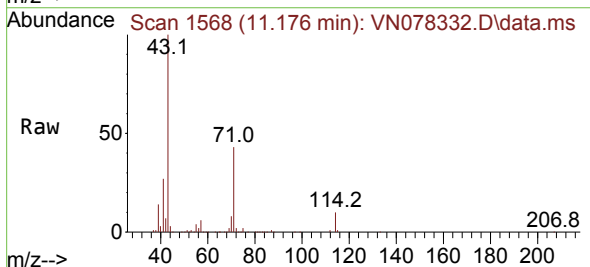
Acq: 21 Jun 2023 19:11

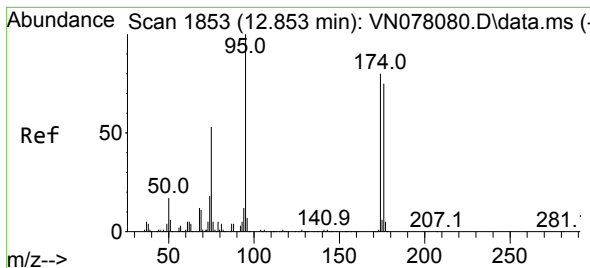
Tgt Ion: 43 Resp: 243113

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

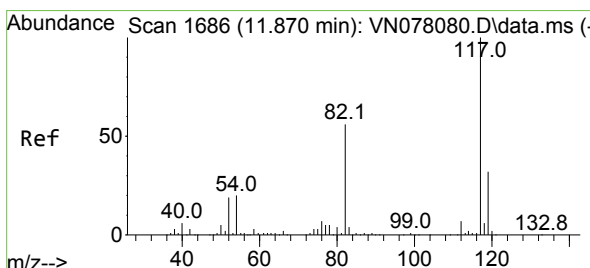
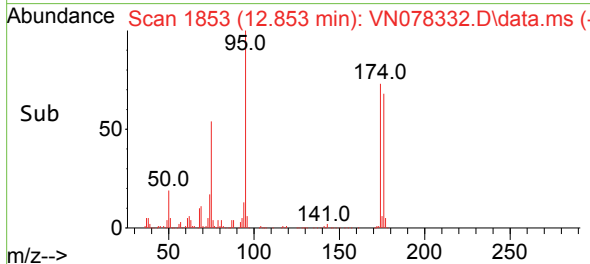
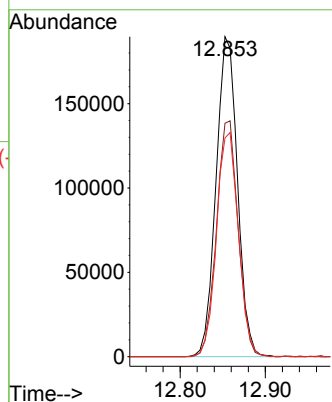
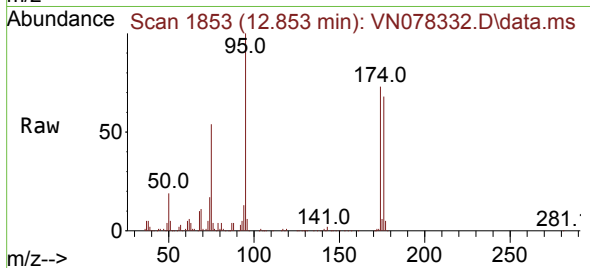




#62
4-Bromofluorobenzene
Concen: 51.420 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

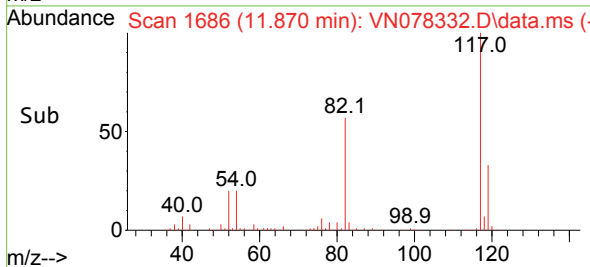
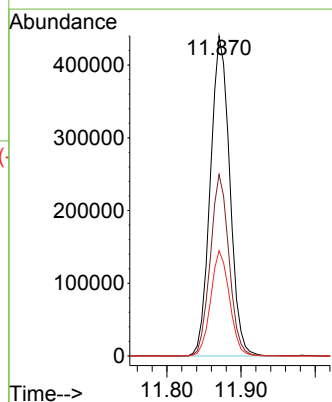
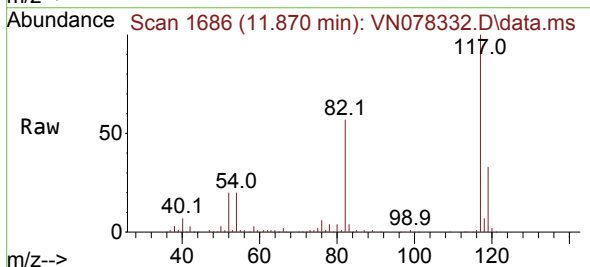
Instrument :
MSVOA_N
ClientSampleId :
WC-17

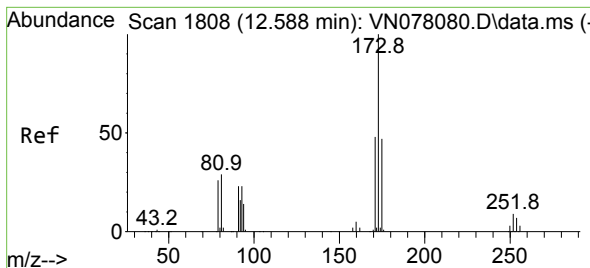
Tgt Ion: 95 Resp: 330810
Ion Ratio Lower Upper
95 100
174 74.7 0.0 143.8
176 71.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion: 117 Resp: 798895
Ion Ratio Lower Upper
117 100
82 56.7 44.0 66.0
119 32.9 25.6 38.4





#71

Bromoform

Concen: 0.741 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.259 min

Lab File: VN078332.D

Acq: 21 Jun 2023 19:11

Instrument :

MSVOA_N

ClientSampleId :

WC-17

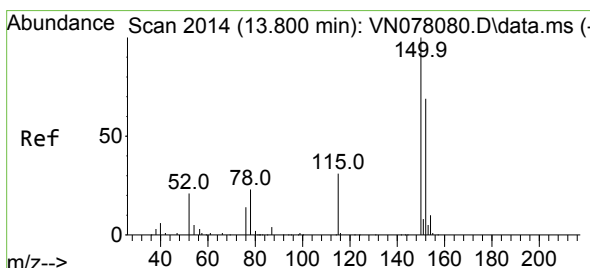
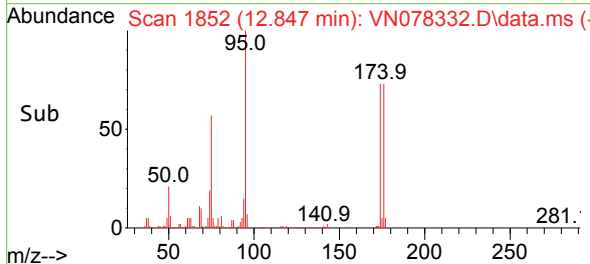
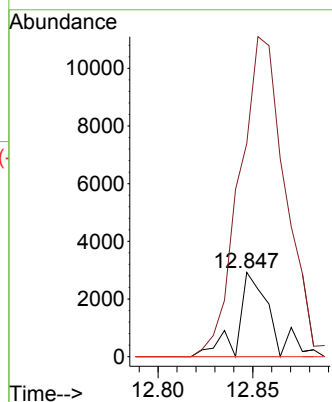
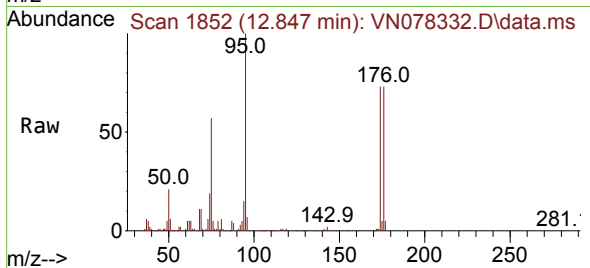
Tgt Ion:173 Resp: 3010

Ion Ratio Lower Upper

173 100

175 526.4 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.006 min

Lab File: VN078332.D

Acq: 21 Jun 2023 19:11

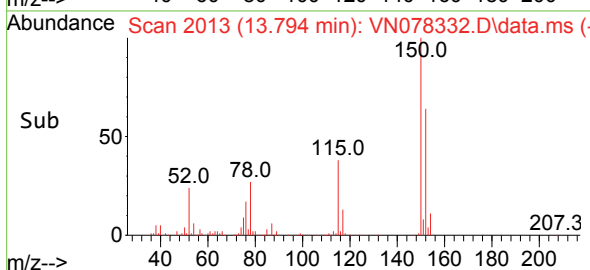
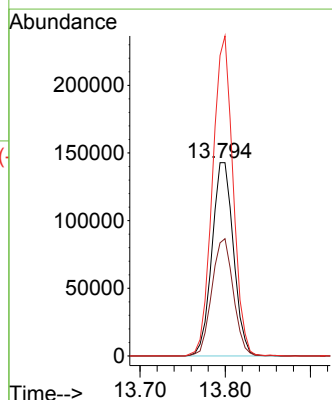
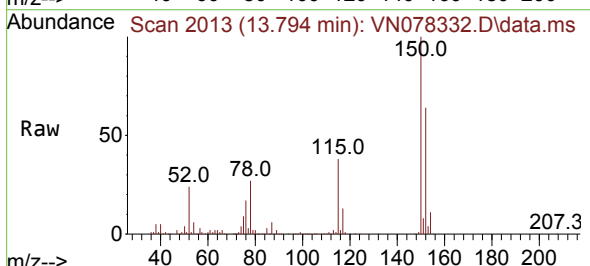
Tgt Ion:152 Resp: 250540

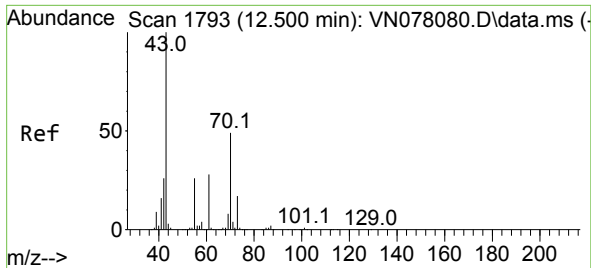
Ion Ratio Lower Upper

152 100

115 60.7 32.3 96.8

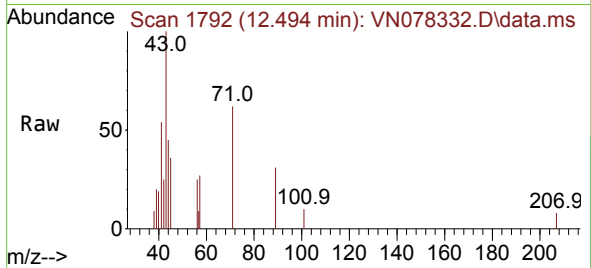
150 157.7 0.0 355.8



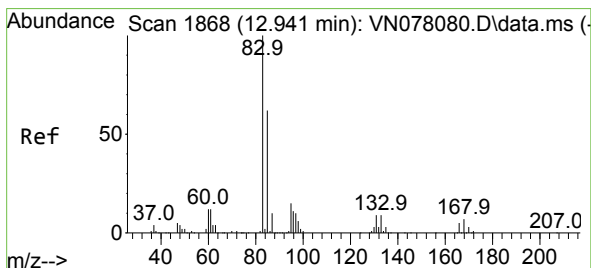
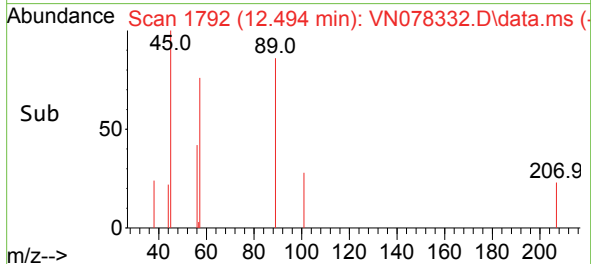
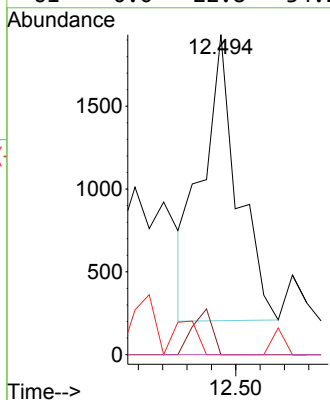


#74
N-amy1 acetate
Concen: 0.223 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Instrument :
MSVOA_N
ClientSampleId :
WC-17

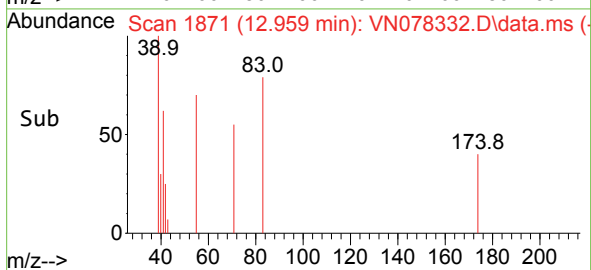
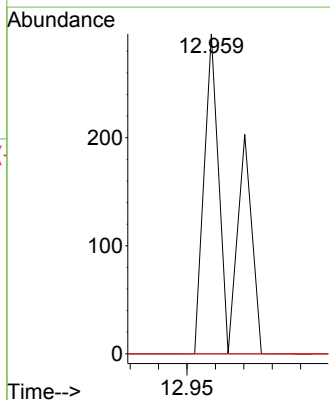
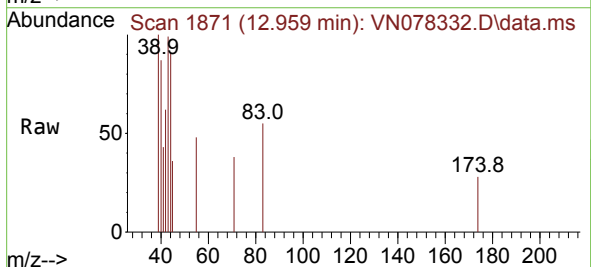


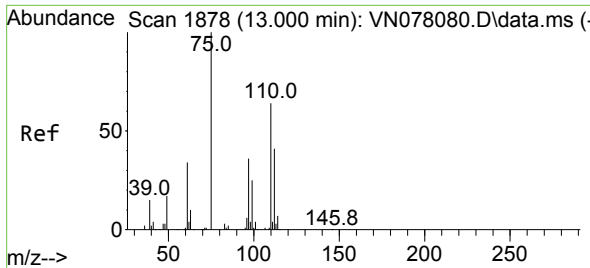
Tgt Ion:	43	Resp:	1742
Ion	Ratio	Lower	Upper
43	100		
70	9.0	43.4	65.2#
55	0.0	21.4	32.0#
61	0.0	22.8	34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.959 min Scan# 1871
Delta R.T. 0.018 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion:	83	Resp:	176
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	0.0	31.9	95.7#

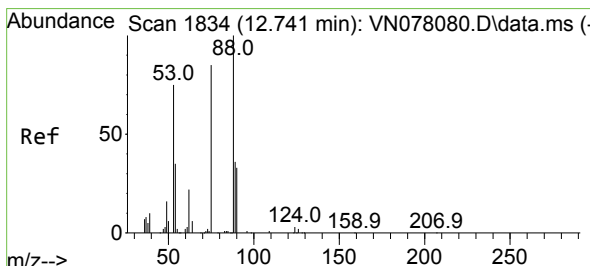
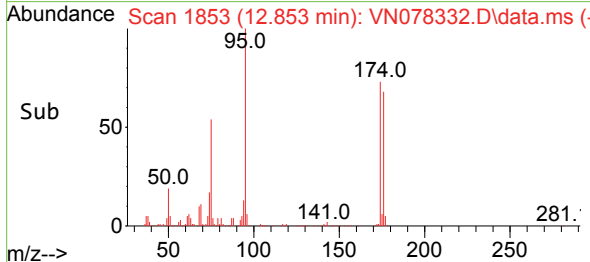
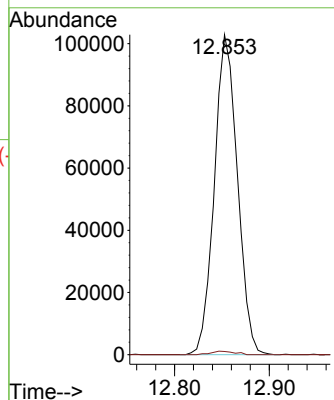
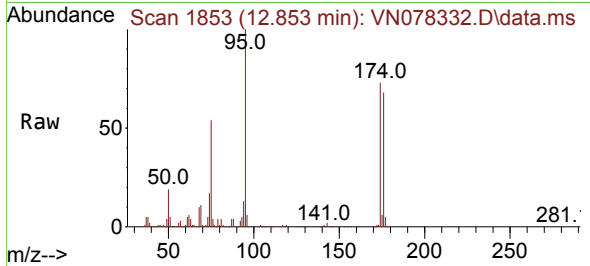




#76
1,2,3-Trichloropropane
Concen: 29.401 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Instrument :
MSVOA_N
ClientSampleId :
WC-17

Tgt Ion: 75 Resp: 174141
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 90.331 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078332.D
Acq: 21 Jun 2023 19:11

Tgt Ion: 75 Resp: 174141
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#

