

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078337.D
 Acq On : 21 Jun 2023 21:11
 Operator : JC\MD
 Sample : 03337-20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-11

Quant Time: Jun 22 04:56:32 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)

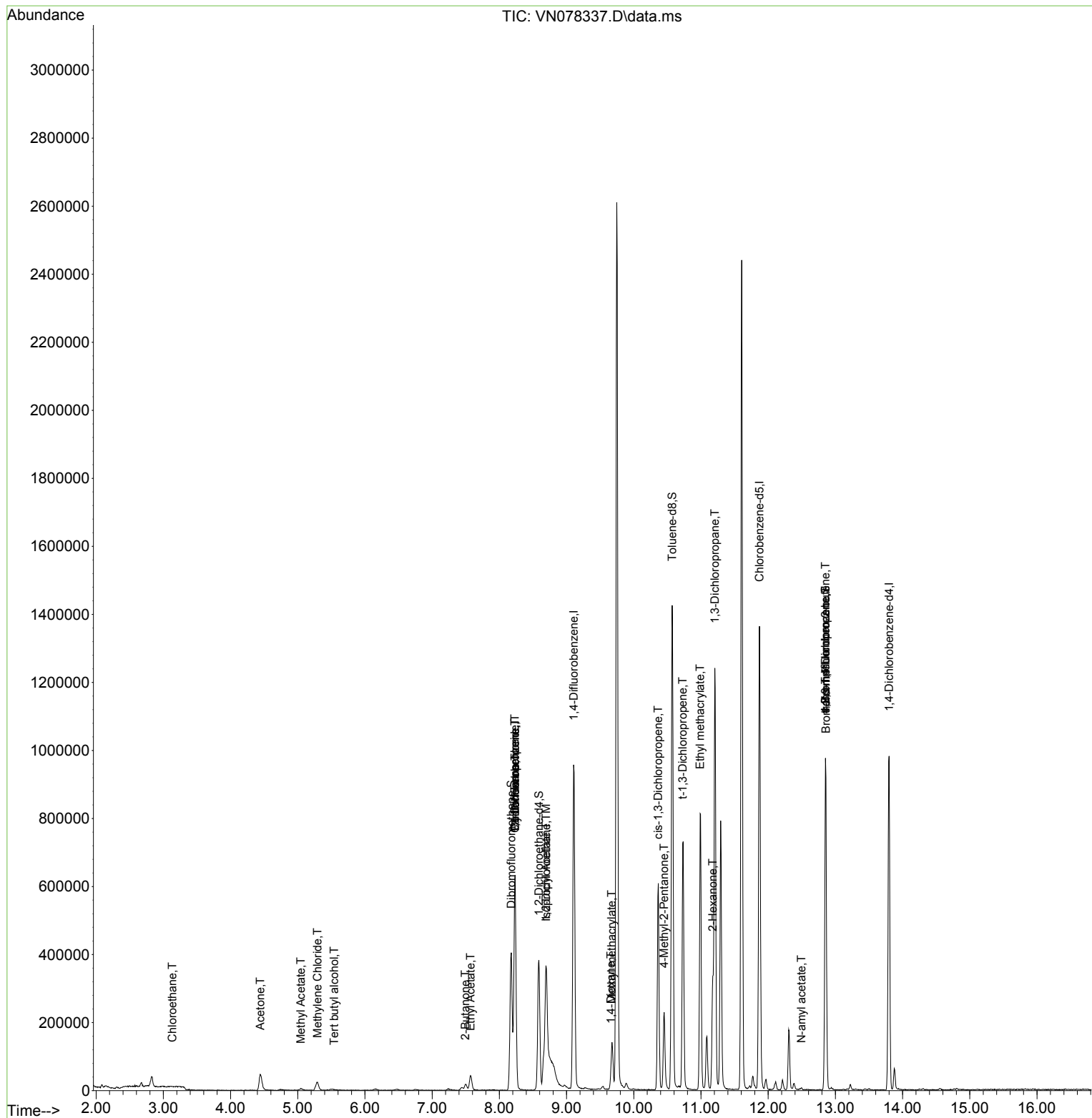
Internal Standards						
1) Pentafluorobenzene	8.236	168	442146	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	852152	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	806564	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	272823	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	323646	54.900	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.800%			
35) Dibromofluoromethane	8.177	113	294165	54.596	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.200%			
50) Toluene-d8	10.571	98	1026142	49.402	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.800%			
62) 4-Bromofluorobenzene	12.853	95	342409	53.026	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.060%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	971	Below Cal	#	50
6) Chloroethane	3.136	64	1013	0.227	ug/l #	43
11) Tert butyl alcohol	5.542	59	1195	1.468	ug/l #	72
16) Acetone	4.442	43	88622	52.228	ug/l	95
18) Methyl Acetate	5.047	43	9070	1.161	ug/l #	73
20) Methylene Chloride	5.295	84	19467	3.472	ug/l #	91
25) 2-Butanone	7.494	43	26073	9.992	ug/l #	70
31) Cyclohexane	8.236	56	11465	1.516	ug/l #	34
36) 1,1-Dichloropropene	8.230	75	38021	4.920	ug/l #	48
37) Ethyl Acetate	7.571	43	67585	11.194	ug/l	96
38) Carbon Tetrachloride	8.230	117	49939	6.120	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	3087	0.390	ug/l #	73
43) Isopropyl Acetate	8.694	43	534862	46.323	ug/l #	70
48) Methyl methacrylate	9.671	41	8743	1.804	ug/l #	33
49) 1,4-Dioxane	9.659	88	97	0.952	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	152793	25.129	ug/l	91
53) t-1,3-Dichloropropene	10.729	75	1858	0.227	ug/l #	89
54) cis-1,3-Dichloropropene	10.365	75	110078	12.174	ug/l #	71
56) Ethyl methacrylate	10.988	69	3433	0.428	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	13851	1.489	ug/l #	42
59) 2-Hexanone	11.176	43	247315	58.417	ug/l #	19
71) Bromoform	12.859	173	3252	0.793	ug/l #	1
74) N-amyl acetate	12.494	43	2046	0.241	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	13.006	83	62	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	179248	27.792	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	179248	85.386	ug/l #	15

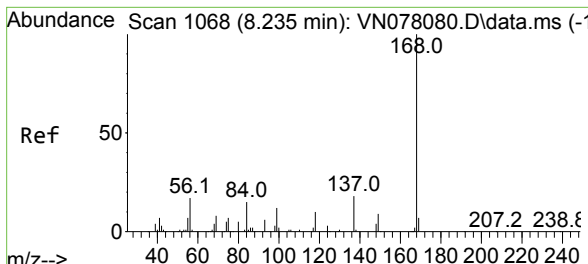
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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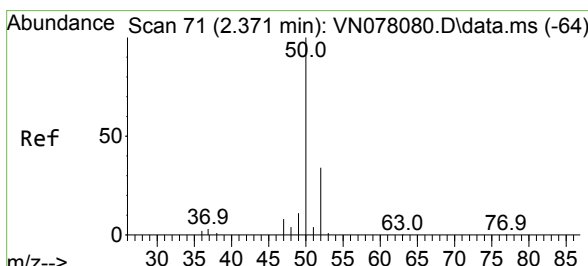
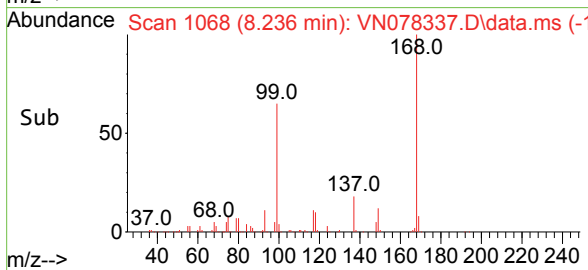
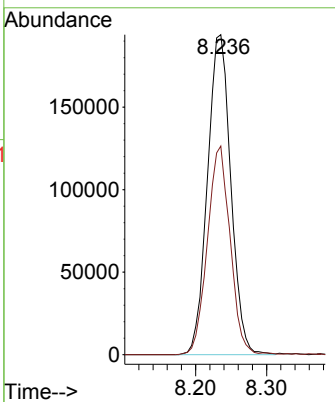
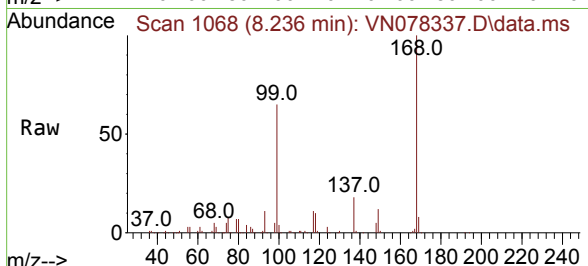




#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.236 min Scan# 10
 Delta R.T. 0.001 min
 Lab File: VN078337.D
 Acq: 21 Jun 2023 21:11

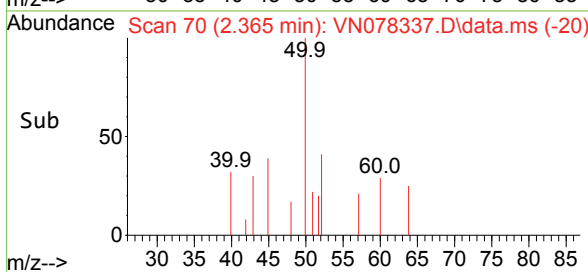
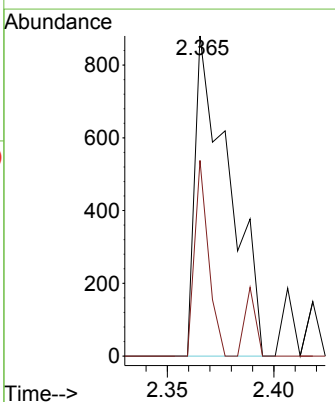
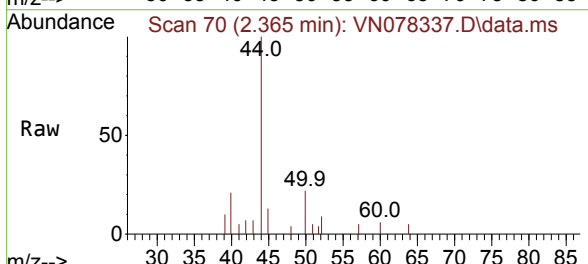
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-11

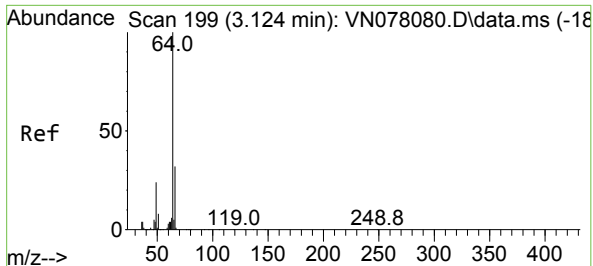
Tgt Ion:168 Resp: 442146
 Ion Ratio Lower Upper
 168 100
 99 65.2 53.0 79.6



#3
 Chloromethane
 Concen: Below Cal
 RT: 2.365 min Scan# 70
 Delta R.T. -0.006 min
 Lab File: VN078337.D
 Acq: 21 Jun 2023 21:11

Tgt Ion: 50 Resp: 971
 Ion Ratio Lower Upper
 50 100
 52 61.1 26.5 39.7#

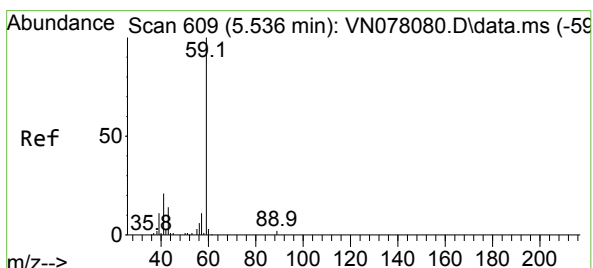
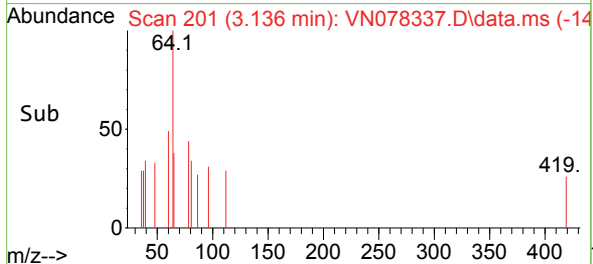
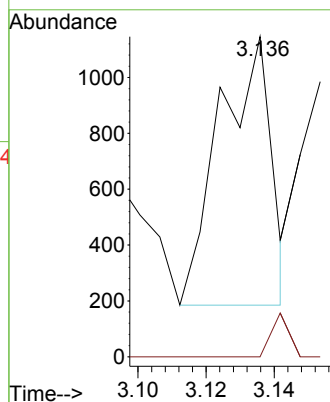
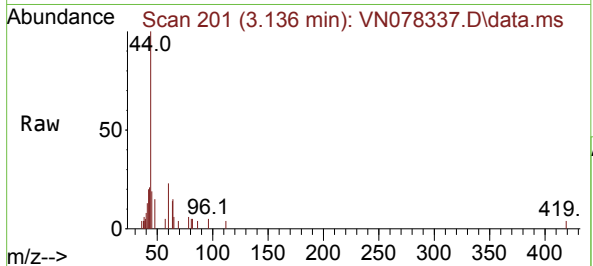




#6
Chloroethane
Concen: 0.227 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

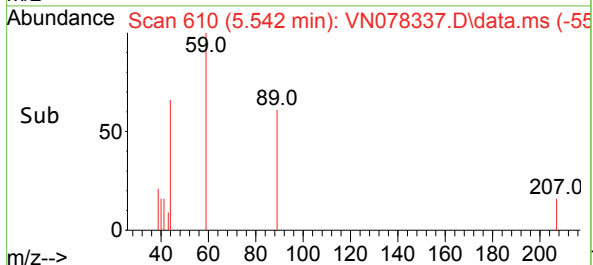
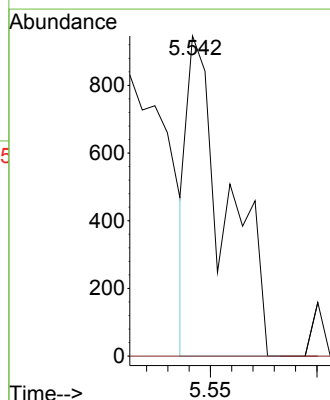
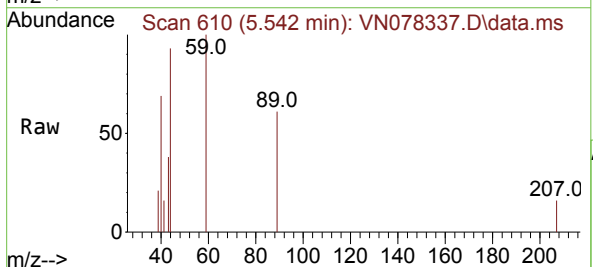
Instrument :
MSVOA_N
ClientSampleId :
WC-11

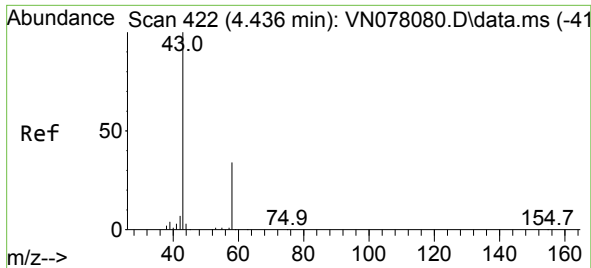
Tgt Ion: 64 Resp: 1013
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.468 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion: 59 Resp: 1195
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

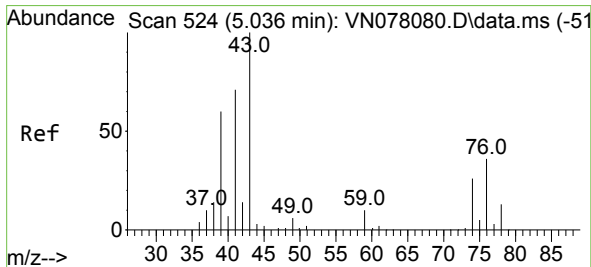
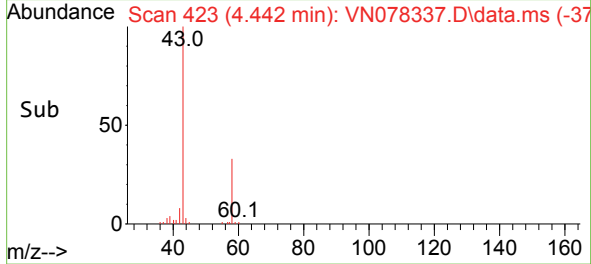
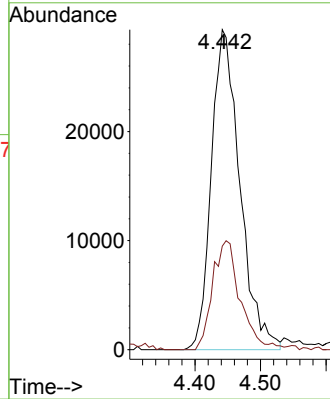
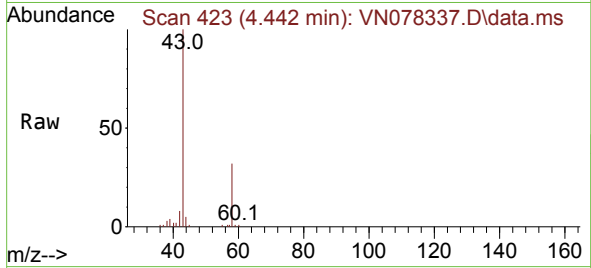




#16
Acetone
Concen: 52.228 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

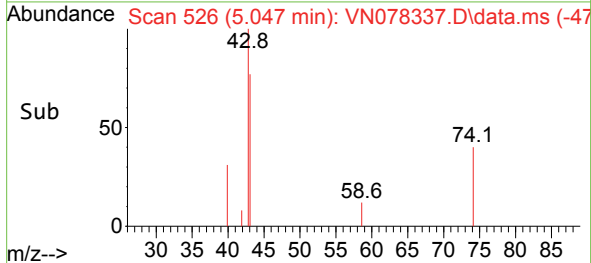
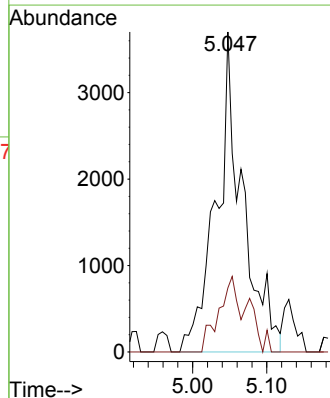
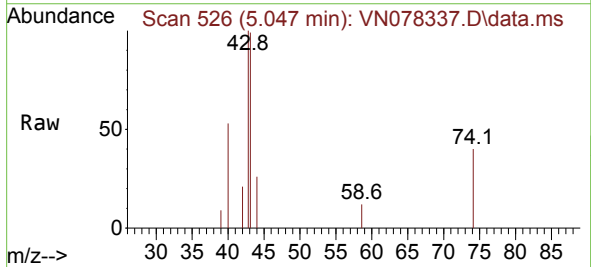
Instrument :
MSVOA_N
ClientSampleId :
WC-11

Tgt Ion: 43 Resp: 88622
Ion Ratio Lower Upper
43 100
58 32.4 28.0 42.0



#18
Methyl Acetate
Concen: 1.161 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion: 43 Resp: 9070
Ion Ratio Lower Upper
43 100
74 17.4 26.2 39.4#

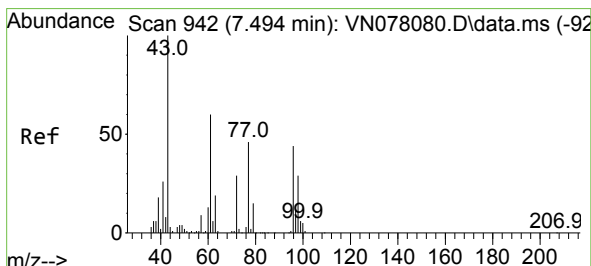
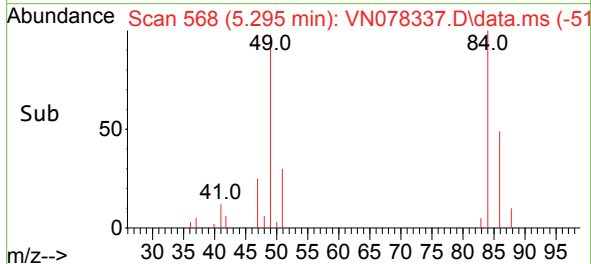
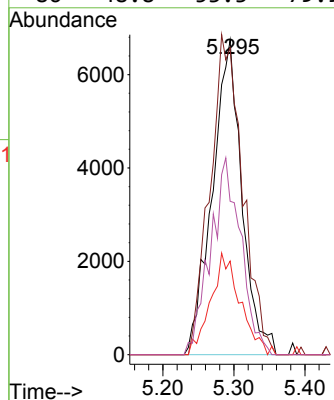
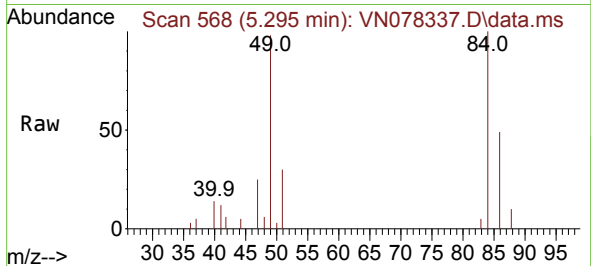




#20
Methylene Chloride
Concen: 3.472 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

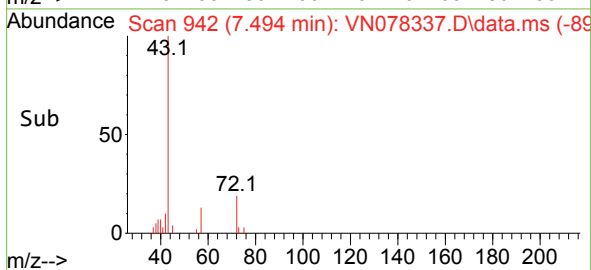
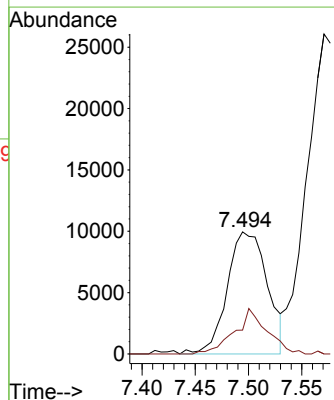
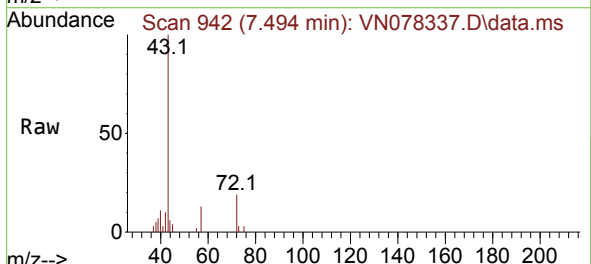
Instrument :
MSVOA_N
ClientSampleId :
WC-11

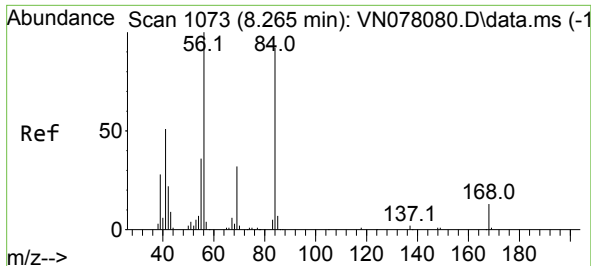
Tgt Ion:	84	Resp:	19467
Ion	Ratio	Lower	Upper
84	100		
49	97.5	79.7	119.5
51	29.8	25.2	37.8
86	48.8	53.3	79.9#



#25
2-Butanone
Concen: 9.992 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion:	43	Resp:	26073
Ion	Ratio	Lower	Upper
43	100		
72	19.5	30.2	45.2#

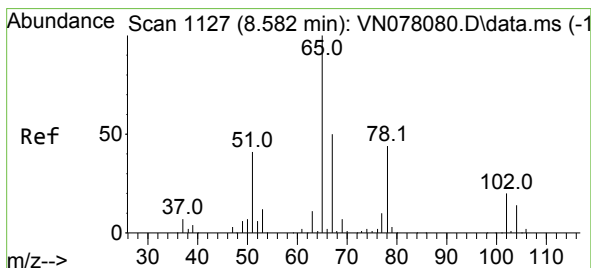
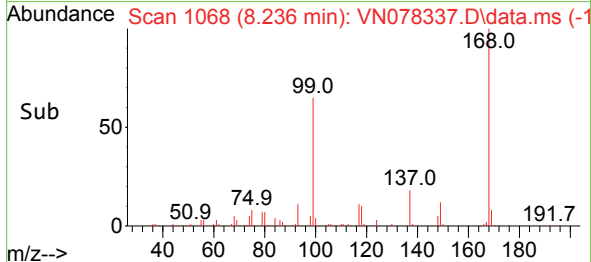
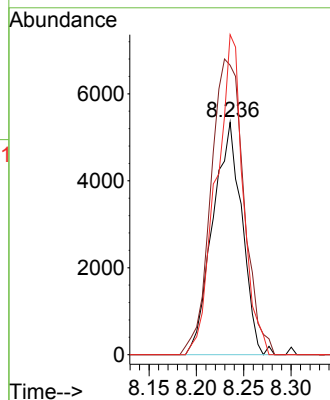
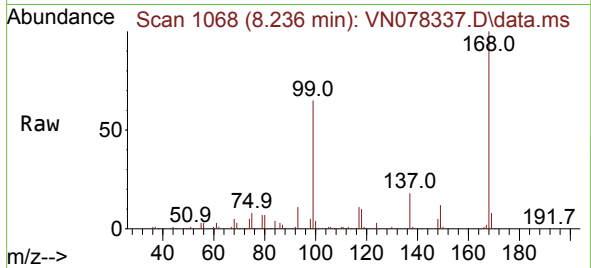




#31
Cyclohexane
Concen: 1.516 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

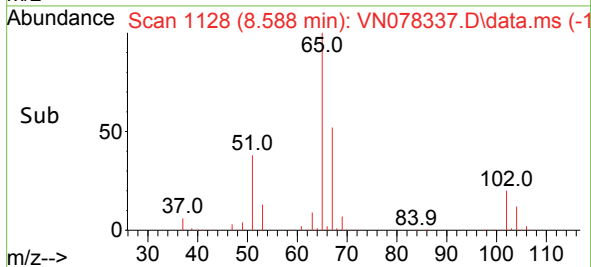
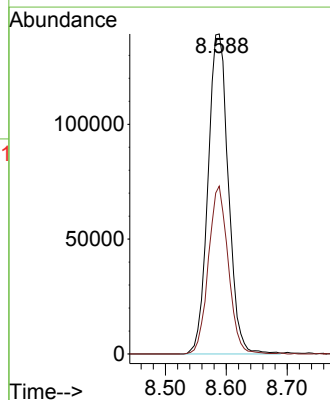
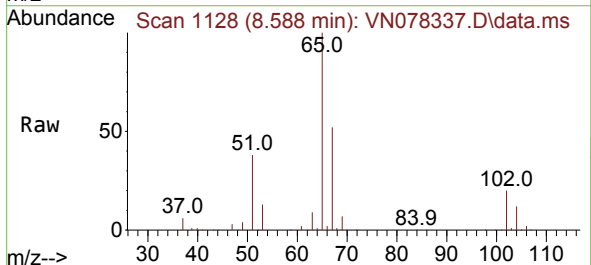
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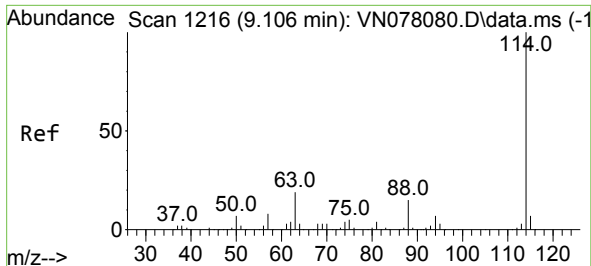
Tgt Ion: 56 Resp: 11465
Ion Ratio Lower Upper
56 100
69 124.5 26.8 40.2#
84 137.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 54.900 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion: 65 Resp: 323646
Ion Ratio Lower Upper
65 100
67 51.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

Instrument :

MSVOA_N

ClientSampleId :

WC-11

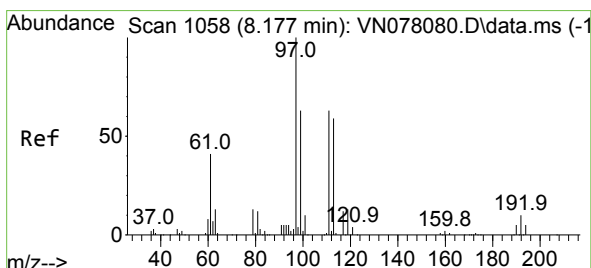
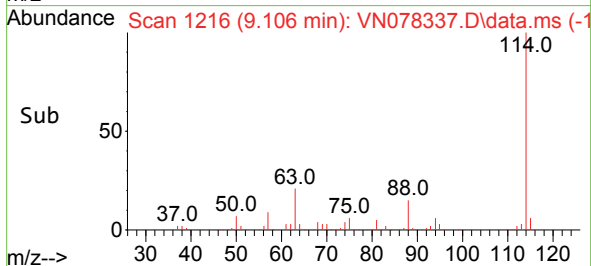
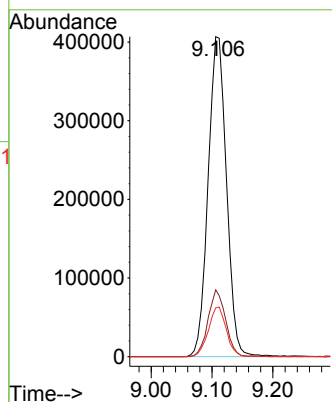
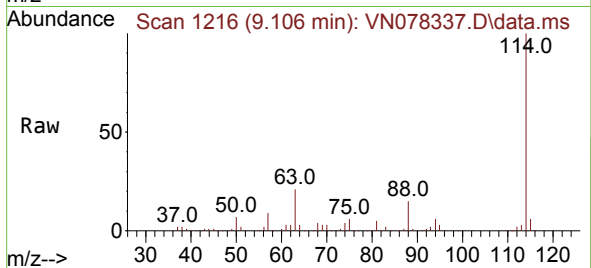
Tgt Ion:114 Resp: 852152

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.596 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

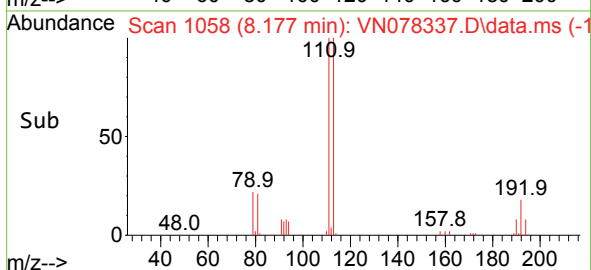
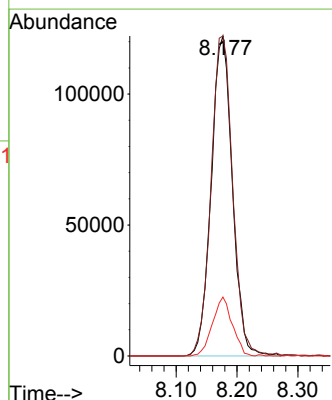
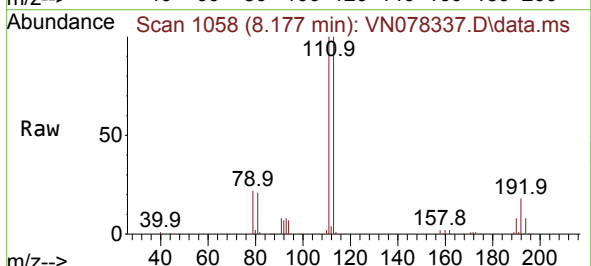
Tgt Ion:113 Resp: 294165

Ion Ratio Lower Upper

113 100

111 102.5 82.6 123.8

192 17.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.920 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

Instrument :

MSVOA_N

ClientSampleId :

WC-11

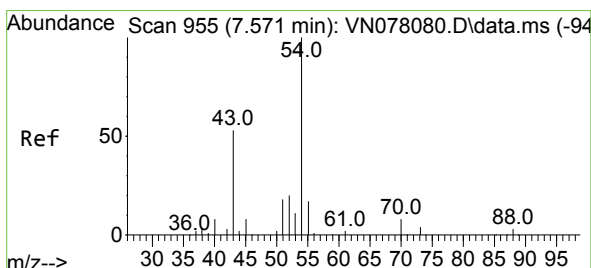
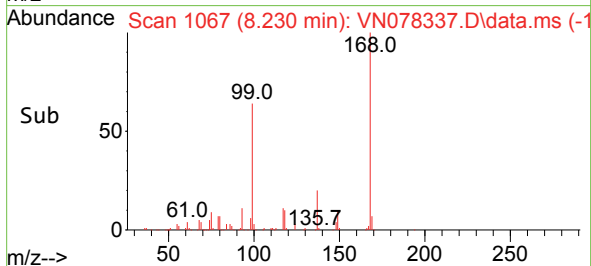
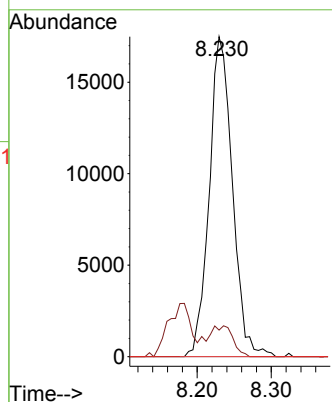
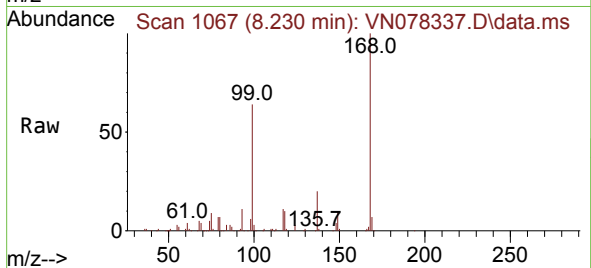
Tgt Ion: 75 Resp: 38021

Ion Ratio Lower Upper

75 100

110 9.0 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 11.194 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.000 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

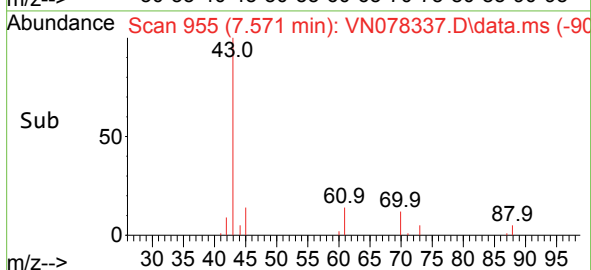
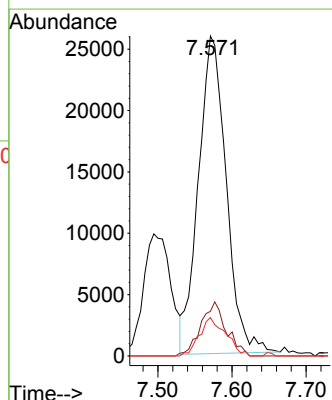
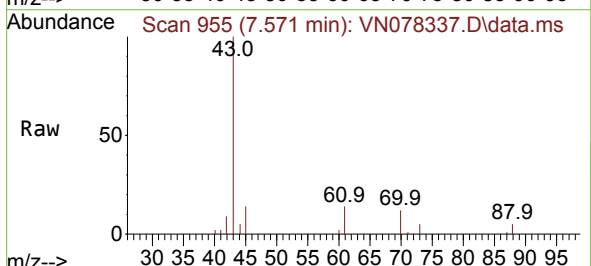
Tgt Ion: 43 Resp: 67585

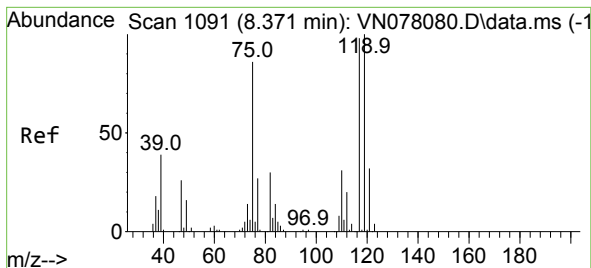
Ion Ratio Lower Upper

43 100

61 15.6 13.2 19.8

70 11.4 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.120 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

Instrument :

MSVOA_N

ClientSampleId :

WC-11

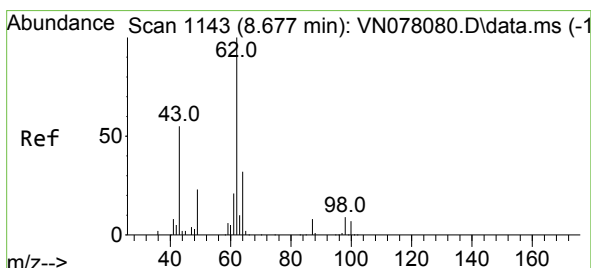
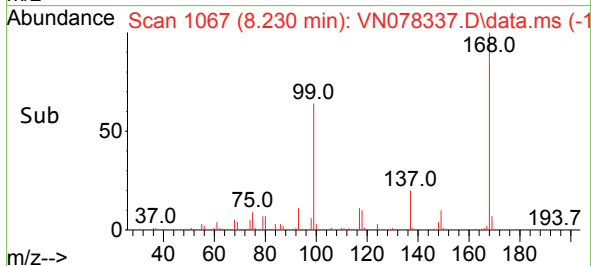
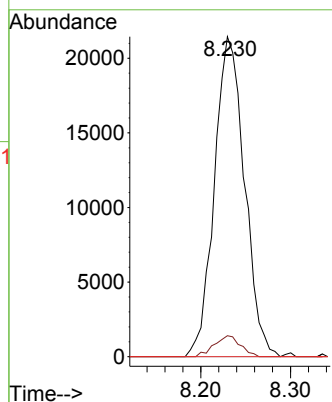
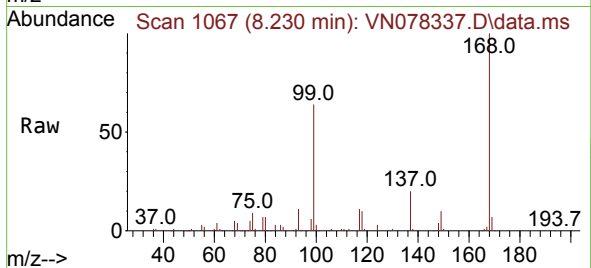
Tgt Ion:117 Resp: 49939

Ion Ratio Lower Upper

117 100

119 6.5 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.390 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN078337.D

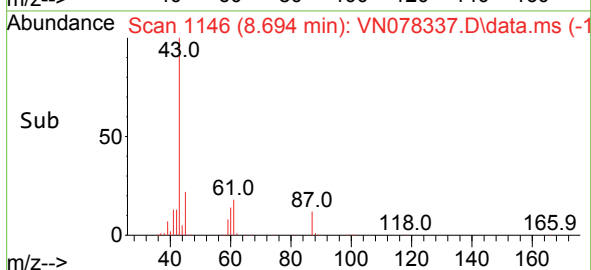
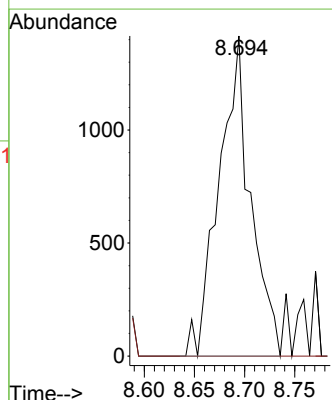
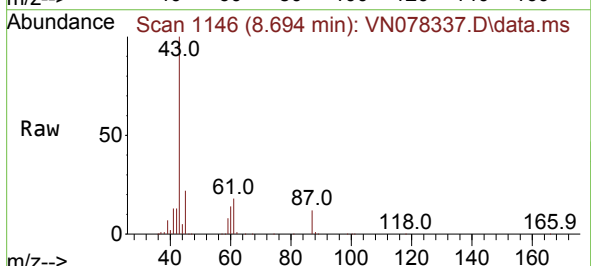
Acq: 21 Jun 2023 21:11

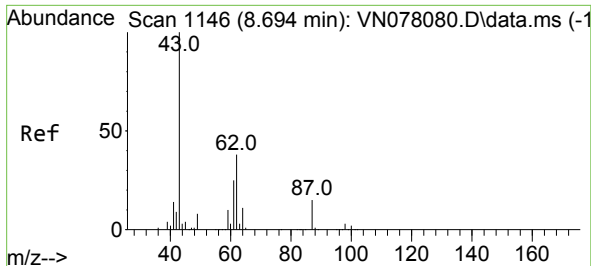
Tgt Ion: 62 Resp: 3087

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

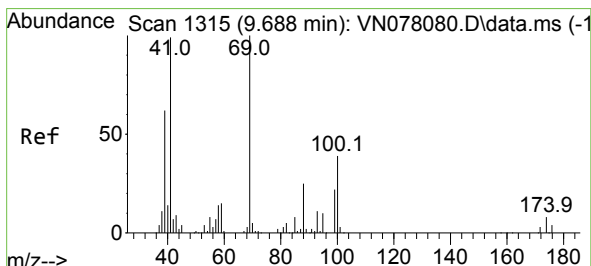
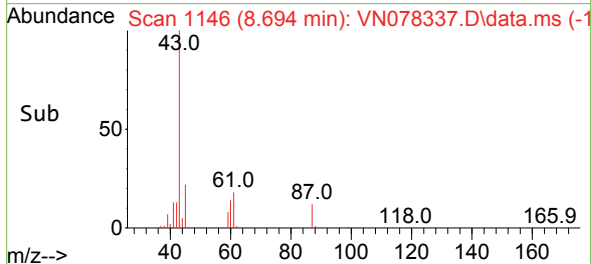
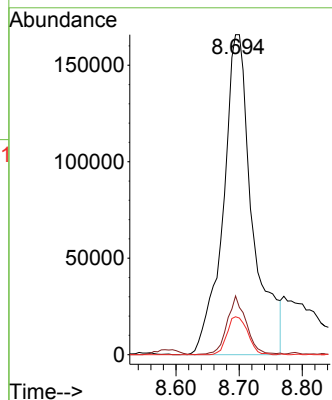
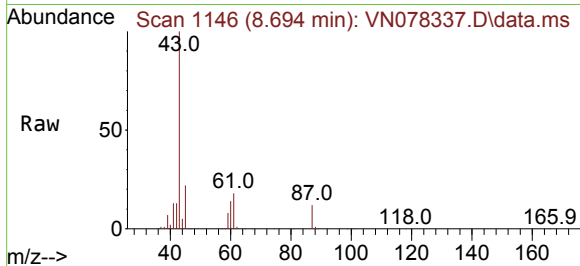




#43
Isopropyl Acetate
Concen: 46.323 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

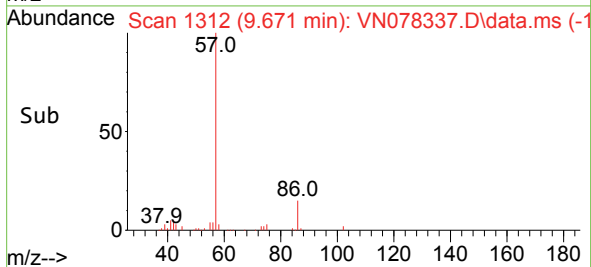
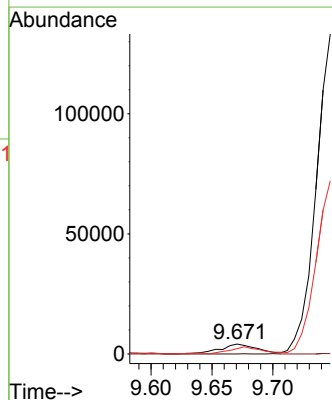
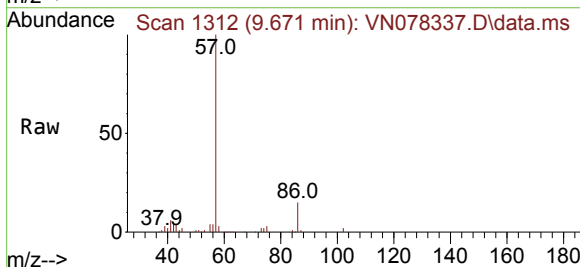
Instrument :
MSVOA_N
ClientSampleId :
WC-11

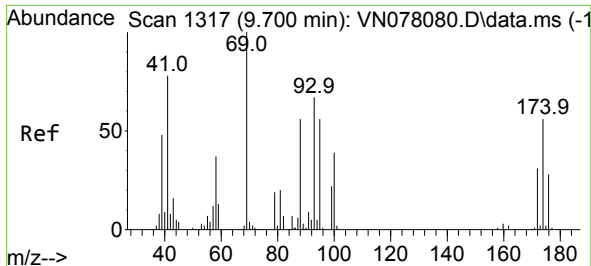
Tgt Ion: 43 Resp: 534862
Ion Ratio Lower Upper
43 100
61 12.1 24.7 37.1#
87 8.3 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.804 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion: 41 Resp: 8743
Ion Ratio Lower Upper
41 100
69 0.6 90.4 135.6#
39 65.1 54.6 81.8





#49

1,4-Dioxane

Concen: 0.952 ug/l

RT: 9.659 min Scan# 1317

Delta R.T. -0.041 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

Instrument :

MSVOA_N

ClientSampleId :

WC-11

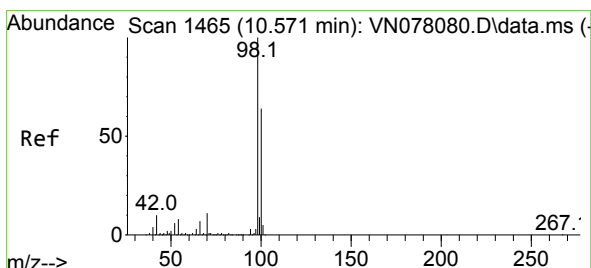
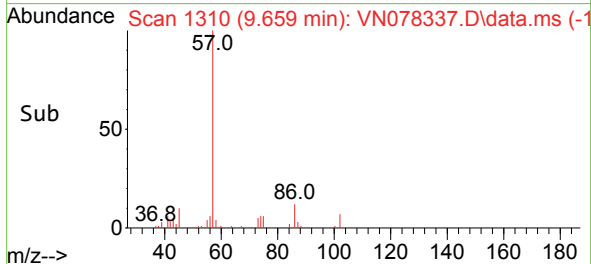
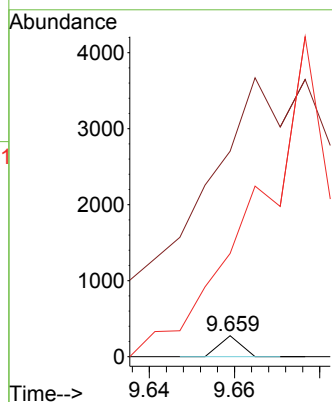
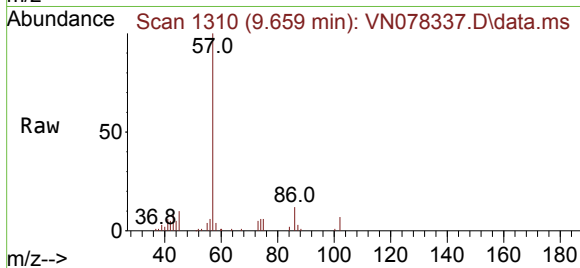
Tgt Ion: 88 Resp: 97

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 7051.5 47.0 70.4#



#50

Toluene-d8

Concen: 49.402 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078337.D

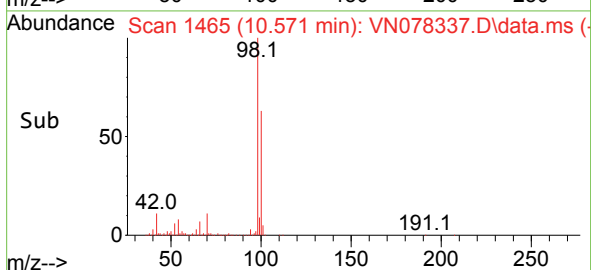
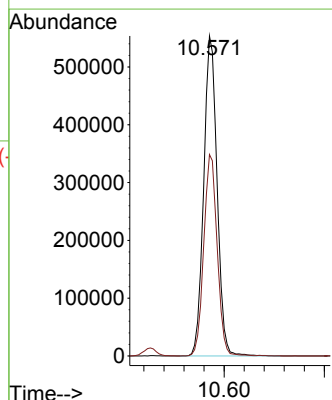
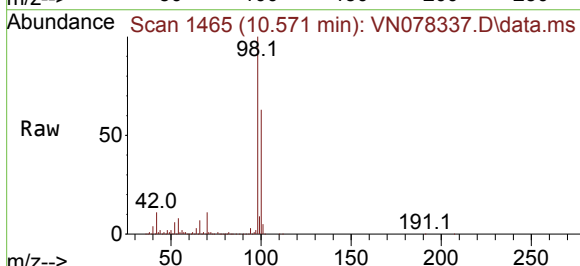
Acq: 21 Jun 2023 21:11

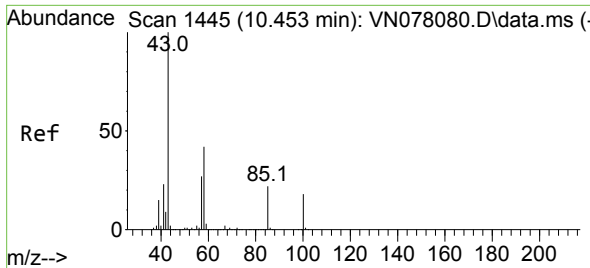
Tgt Ion: 98 Resp: 1026142

Ion Ratio Lower Upper

98 100

100 63.2 52.0 78.0

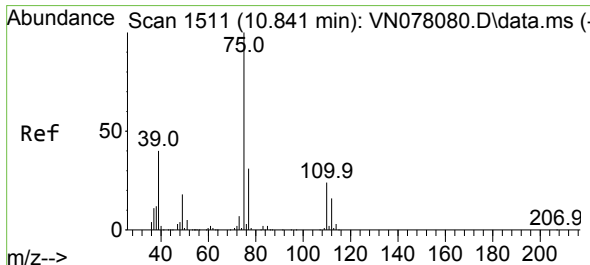
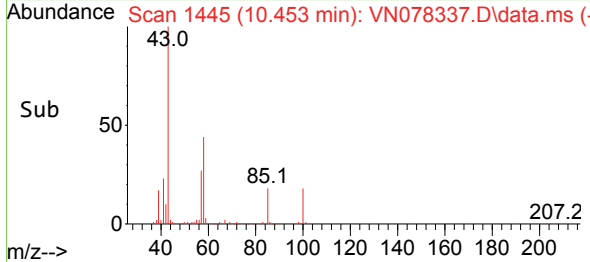
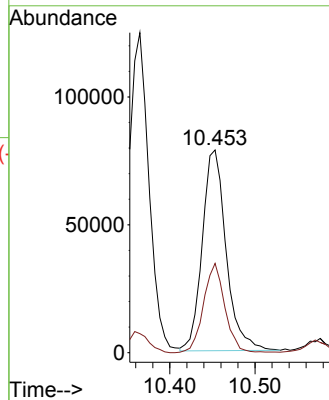
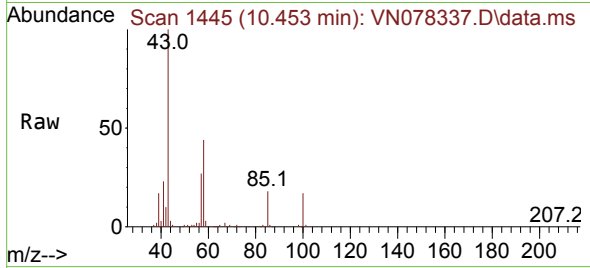




#51
4-Methyl-2-Pentanone
Concen: 25.129 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

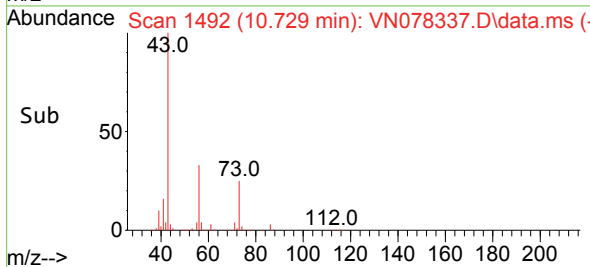
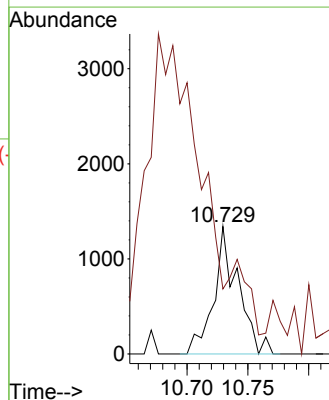
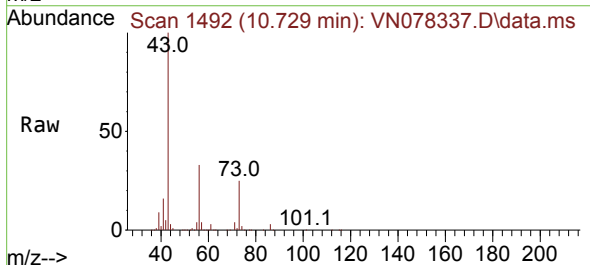
Instrument :
MSVOA_N
ClientSampleId :
WC-11

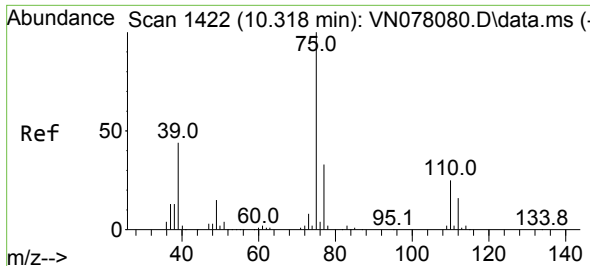
Tgt Ion: 43 Resp: 152793
Ion Ratio Lower Upper
43 100
58 39.9 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.227 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion: 75 Resp: 1858
Ion Ratio Lower Upper
75 100
77 25.4 25.4 38.0#

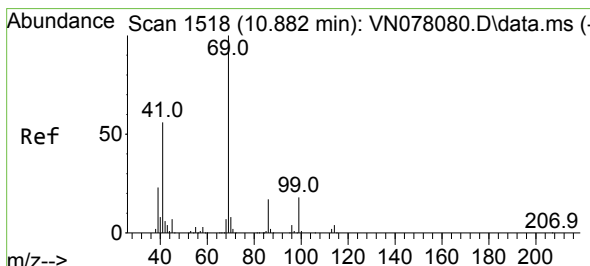
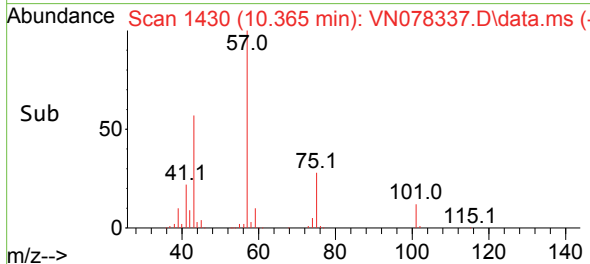
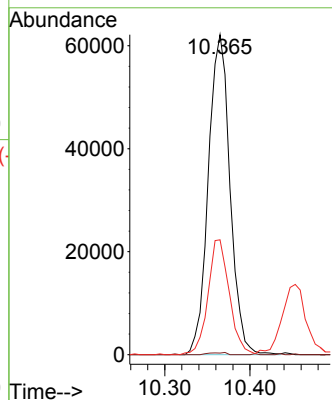
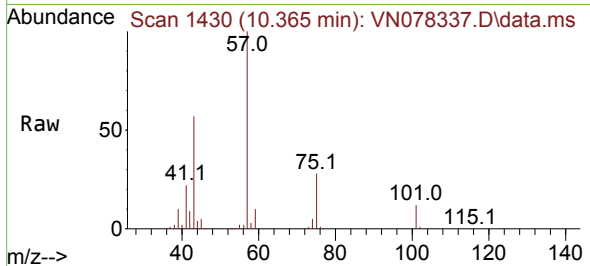




#54
cis-1,3-Dichloropropene
Concen: 12.174 ug/l
RT: 10.365 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

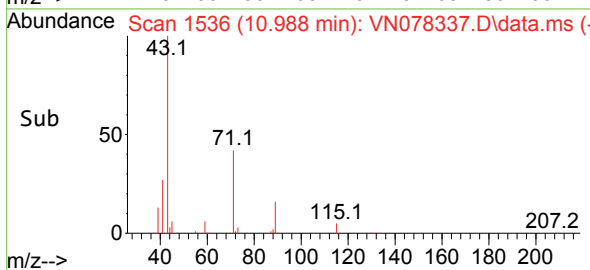
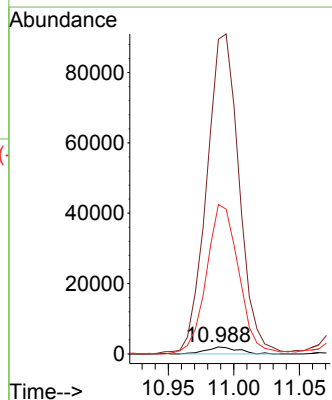
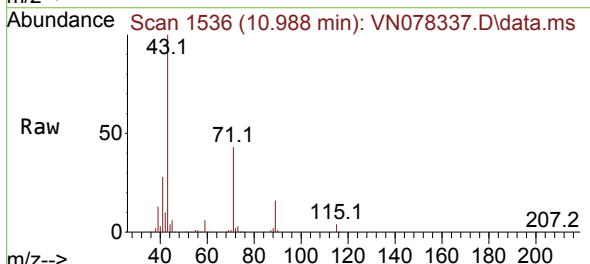
Instrument :
MSVOA_N
ClientSampleId :
WC-11

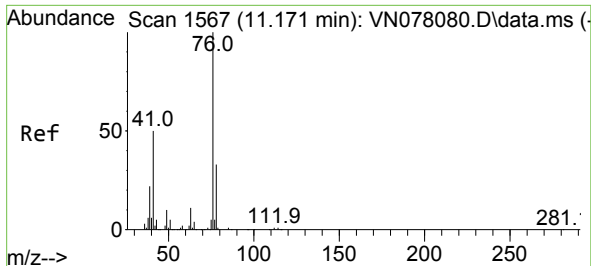
Tgt Ion: 75 Resp: 110078
Ion Ratio Lower Upper
75 100
77 0.5 26.1 39.1#
39 35.9 31.6 47.4



#56
Ethyl methacrylate
Concen: 0.428 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion: 69 Resp: 3433
Ion Ratio Lower Upper
69 100
41 4577.0 39.6 59.4#
39 2136.1 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.489 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

Instrument :

MSVOA_N

ClientSampleId :

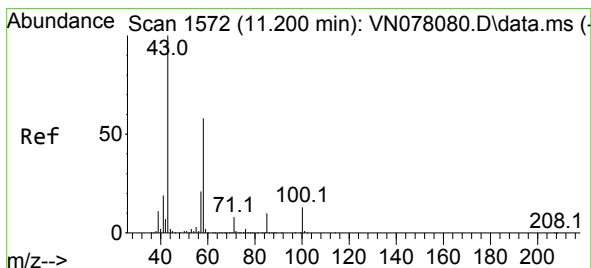
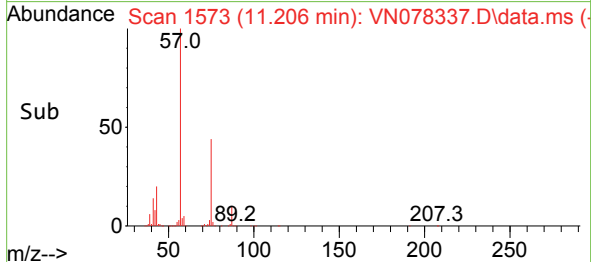
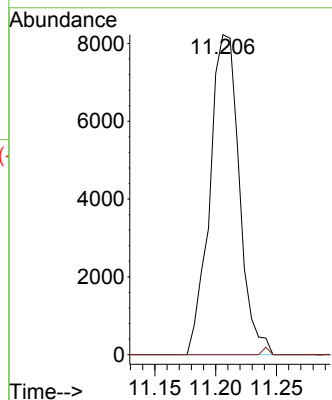
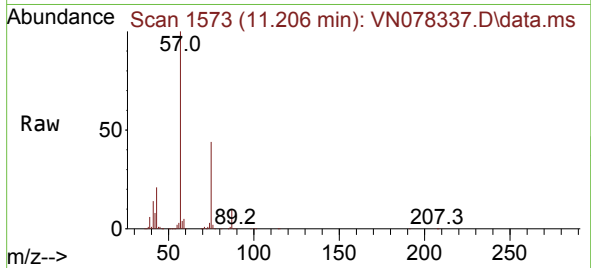
WC-11

Tgt Ion: 76 Resp: 13851

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 58.417 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078337.D

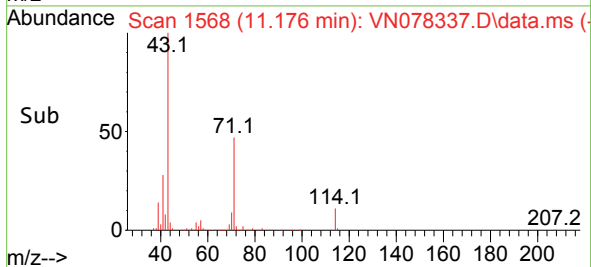
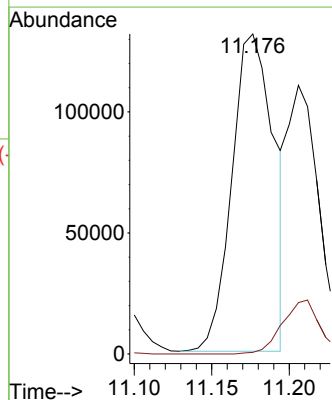
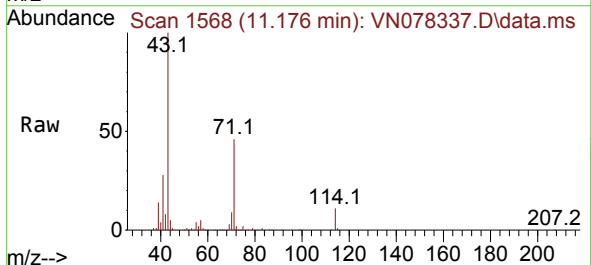
Acq: 21 Jun 2023 21:11

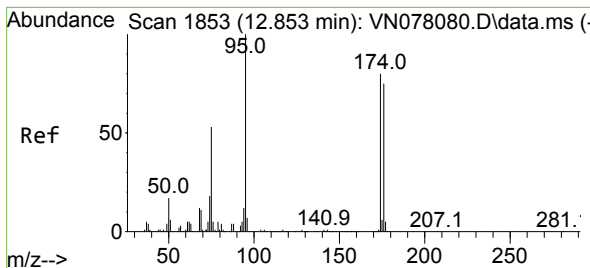
Tgt Ion: 43 Resp: 247315

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

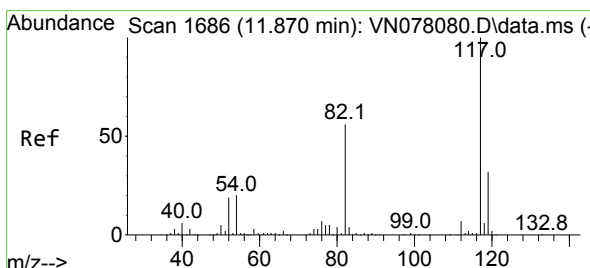
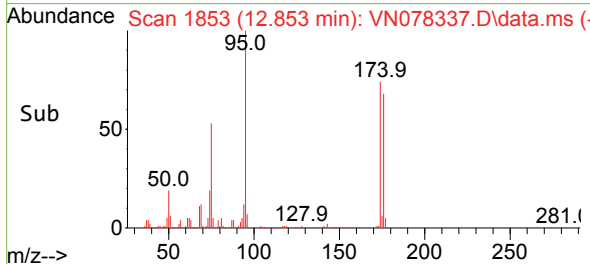
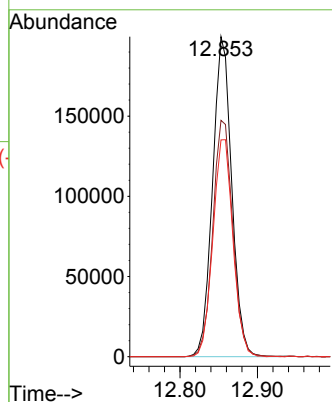
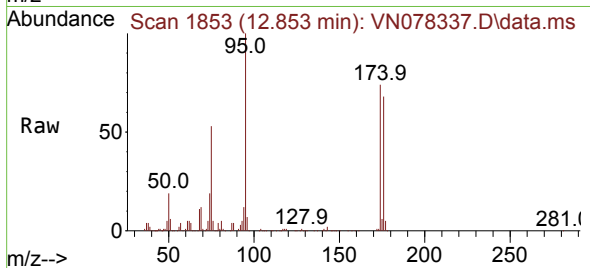




#62
4-Bromofluorobenzene
Concen: 53.026 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

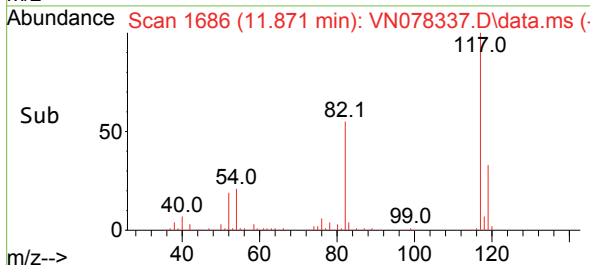
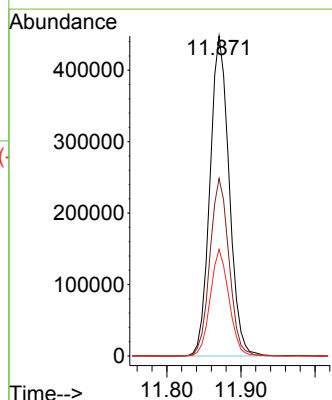
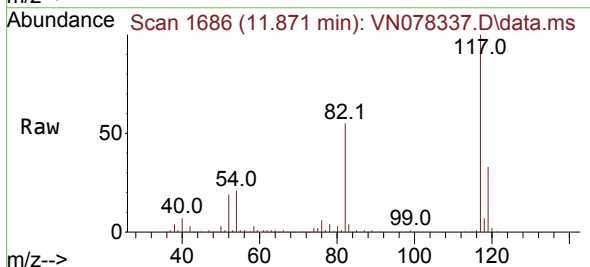
Instrument :
MSVOA_N
ClientSampleId :
WC-11

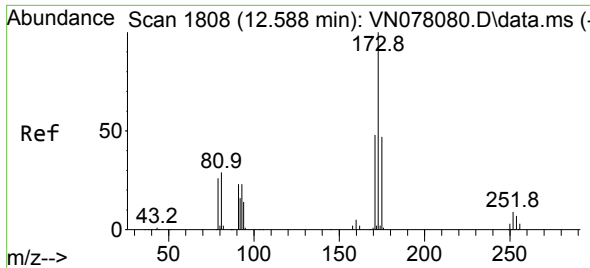
Tgt Ion: 95 Resp: 342409
Ion Ratio Lower Upper
95 100
174 77.1 0.0 143.8
176 71.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion: 117 Resp: 806564
Ion Ratio Lower Upper
117 100
82 55.4 44.0 66.0
119 33.3 25.6 38.4

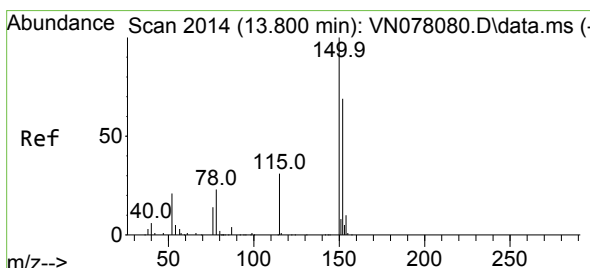
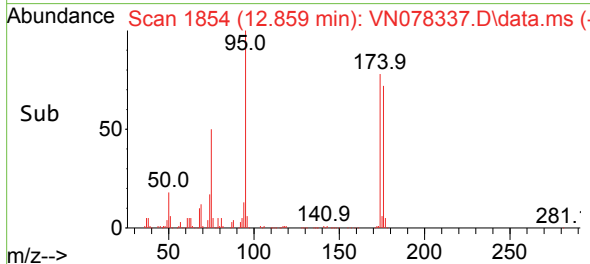
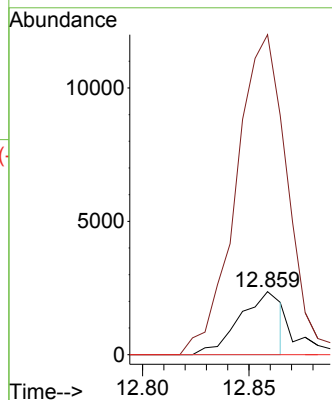
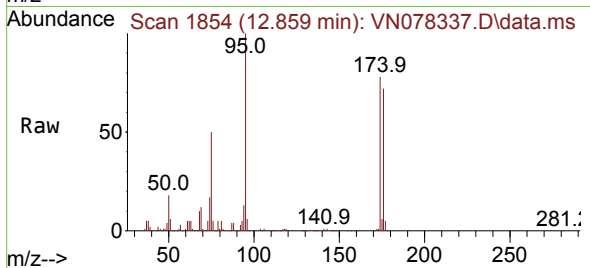




#71
Bromoform
Concen: 0.793 ug/l
RT: 12.859 min Scan# 1808
Delta R.T. 0.271 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

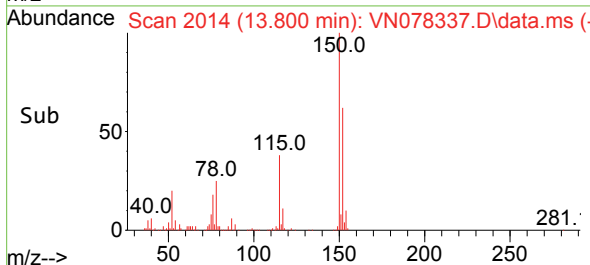
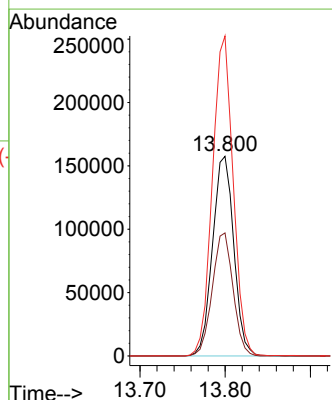
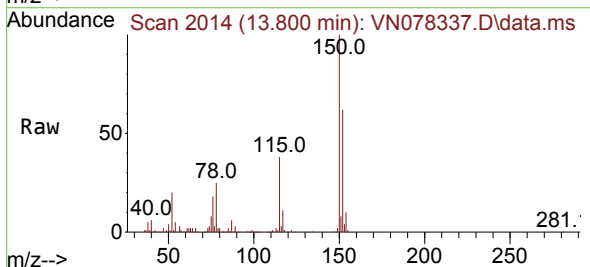
Instrument :
MSVOA_N
ClientSampleId :
WC-11

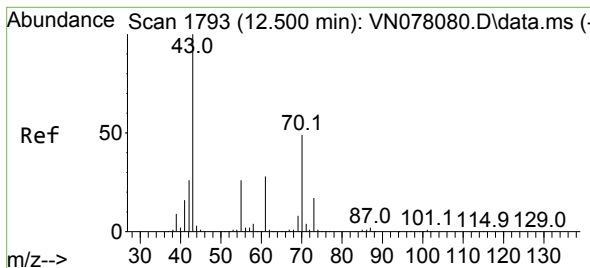
Tgt Ion:173 Resp: 3252
Ion Ratio Lower Upper
173 100
175 533.7 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion:152 Resp: 272823
Ion Ratio Lower Upper
152 100
115 60.3 32.3 96.8
150 156.4 0.0 355.8





#74

N-amy1 acetate

Concen: 0.241 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

Instrument :

MSVOA_N

ClientSampleId :

WC-11

Tgt Ion: 43 Resp: 2046

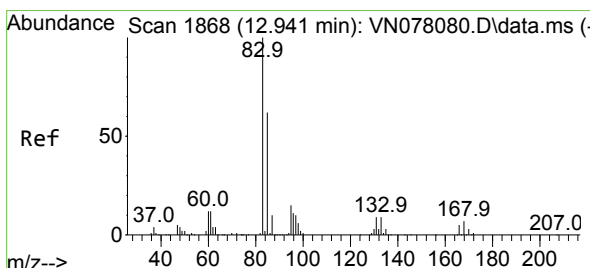
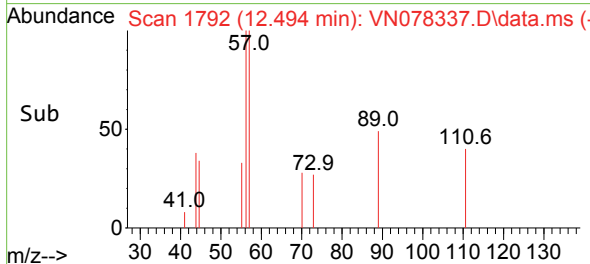
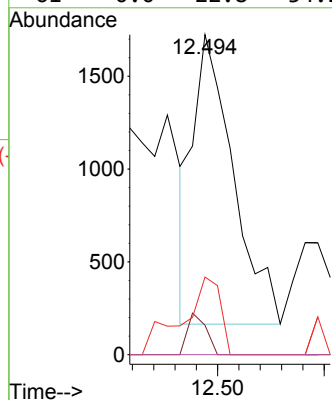
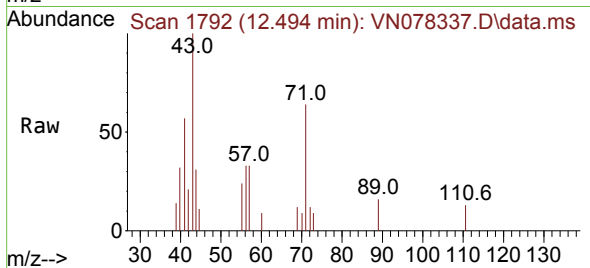
Ion Ratio Lower Upper

43 100

70 6.6 43.4 65.2#

55 25.5 21.4 32.0

61 0.0 22.8 34.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 13.006 min Scan# 1879

Delta R.T. 0.065 min

Lab File: VN078337.D

Acq: 21 Jun 2023 21:11

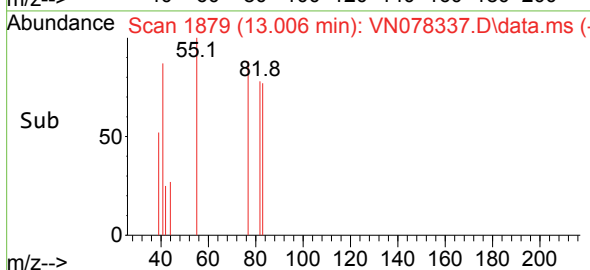
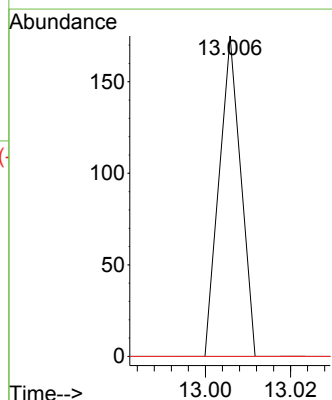
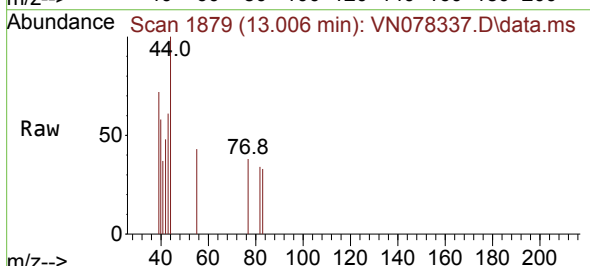
Tgt Ion: 83 Resp: 62

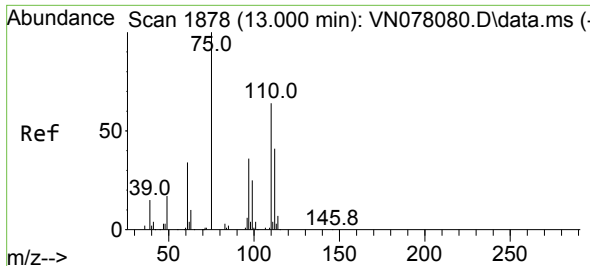
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#

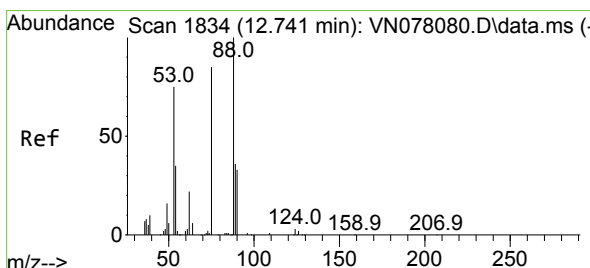
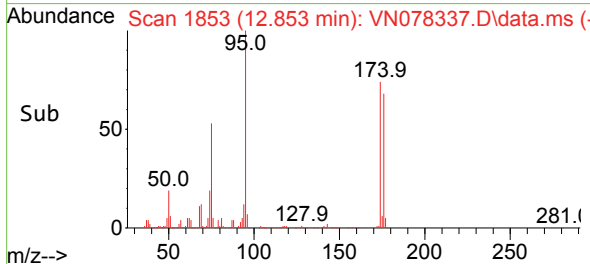
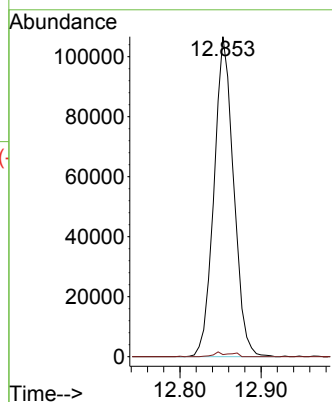
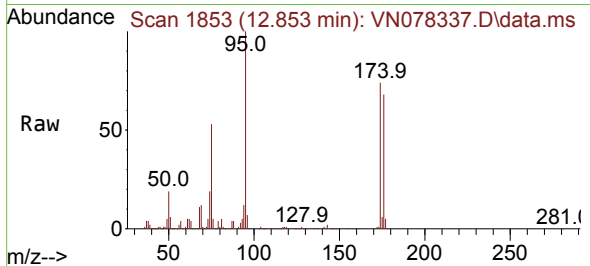




#76
1,2,3-Trichloropropane
Concen: 27.792 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Instrument :
MSVOA_N
ClientSampleId :
WC-11

Tgt Ion: 75 Resp: 179248
Ion Ratio Lower Upper
75 100
77 0.8 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 85.386 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078337.D
Acq: 21 Jun 2023 21:11

Tgt Ion: 75 Resp: 179248
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#

