

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077211.D
 Acq On : 27 Mar 2023 19:27
 Operator : JC\MD
 Sample : PB151668ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#02

Quant Time: Mar 28 07:42:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032523W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 27 02:47:06 2023
 Response via : Initial Calibration

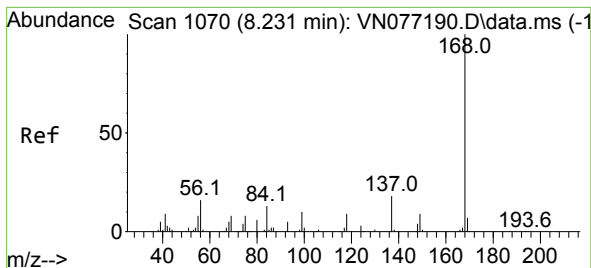
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	449336	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	804732	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	732801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	277533	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	339546	48.330	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.660%		
35) Dibromofluoromethane	8.178	113	256341	46.944	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.880%		
50) Toluene-d8	10.572	98	1004033	49.071	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.140%		
62) 4-Bromofluorobenzene	12.854	95	311884	46.445	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.900%		
Target Compounds						Qvalue
6) Chloroethane	3.196	64	4484	0.696	ug/l #	42
11) Tert butyl alcohol	5.525	59	216	0.226	ug/l #	72
16) Acetone	4.443	43	63887	24.457	ug/l #	87
18) Methyl Acetate	5.048	43	6658	0.637	ug/l #	56
20) Methylene Chloride	5.290	84	17091	2.938	ug/l #	82
25) 2-Butanone	7.513	43	6163	1.509	ug/l #	84
29) Tetrahydrofuran	7.860	42	1570	0.580	ug/l #	57
31) Cyclohexane	8.230	56	11910	1.220	ug/l #	51
36) 1,1-Dichloropropene	8.230	75	40635	5.347	ug/l #	46
37) Ethyl Acetate	7.566	43	96652	11.410	ug/l #	91
38) Carbon Tetrachloride	8.225	117	47937	6.221	ug/l #	18
41) Methacrylonitrile	7.866	41	1210	0.261	ug/l #	23
42) 1,2-Dichloroethane	8.689	62	3436	0.391	ug/l	75
43) Isopropyl Acetate	8.695	43	497978	36.438	ug/l #	75
45) 1,2-Dichloropropane	9.736	63	5034	0.813	ug/l #	43
48) Methyl methacrylate	9.748	41	398625	60.571	ug/l #	28
49) 1,4-Dioxane	9.672	88	155	1.382	ug/l #	1
51) 4-Methyl-2-Pentanone	10.360	43	340067	39.548	ug/l #	38
54) cis-1,3-Dichloropropene	10.360	75	140868	15.754	ug/l #	68
56) Ethyl methacrylate	10.989	69	4528	0.550	ug/l #	1
57) 1,3-Dichloropropane	11.207	76	18283	1.839	ug/l #	42
59) 2-Hexanone	11.171	43	392200	63.466	ug/l #	17
71) Bromoform	12.848	173	3280	0.821	ug/l #	1
74) N-amyl acetate	12.489	43	4239	0.445	ug/l #	38
76) 1,2,3-Trichloropropane	12.854	75	172345	30.612	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	172345	88.228	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.389	180	474	4.474	ug/l #	24
95) Naphthalene	15.648	128	1726	6.018	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.836	180	190	4.688	ug/l #	25

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

Quant Time: Mar 28 07:42:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032523W.M
Quant Title : SW846 8260
QLast Update : Mon Mar 27 02:47:06 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

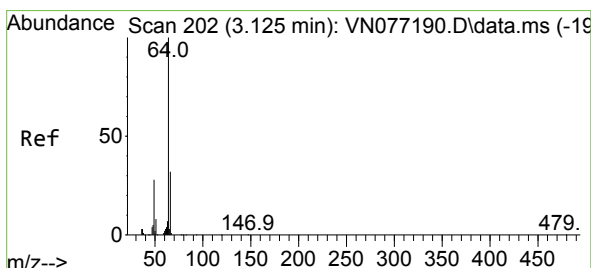
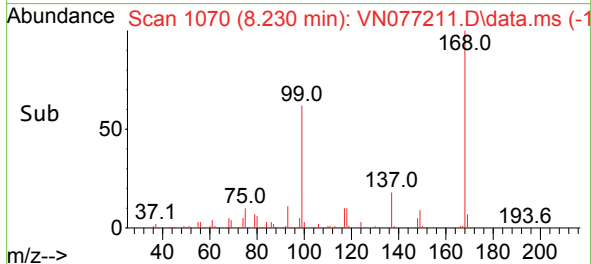
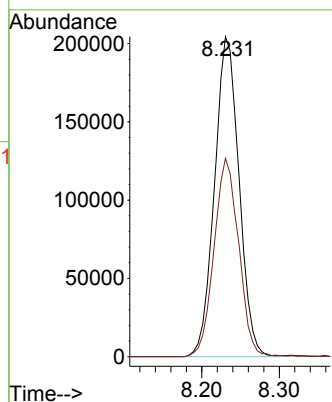
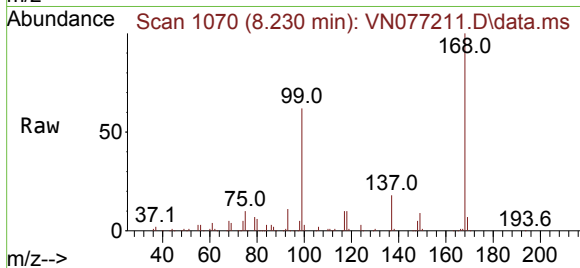
PB151668ZHE#02

Tgt Ion:168 Resp: 449336

Ion Ratio Lower Upper

168 100

99 62.0 48.6 73.0



#6

Chloroethane

Concen: 0.696 ug/l

RT: 3.196 min Scan# 214

Delta R.T. 0.071 min

Lab File: VN077211.D

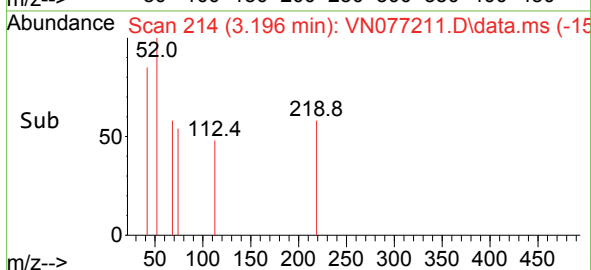
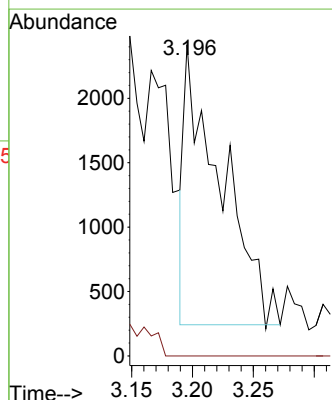
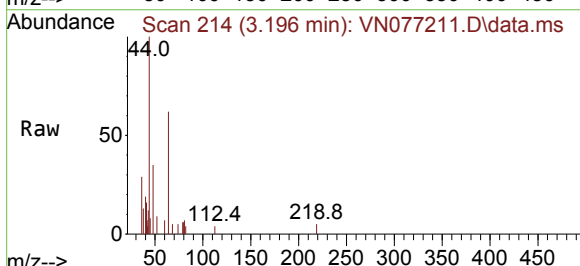
Acq: 27 Mar 2023 19:27

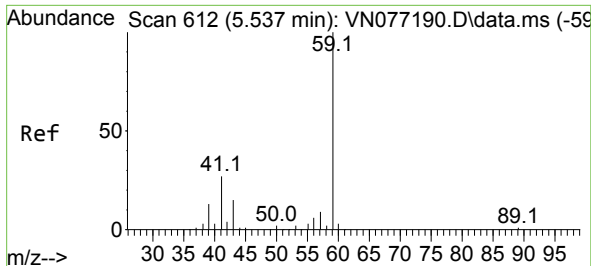
Tgt Ion: 64 Resp: 4484

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.4#

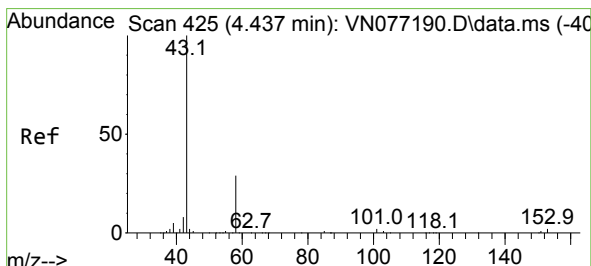
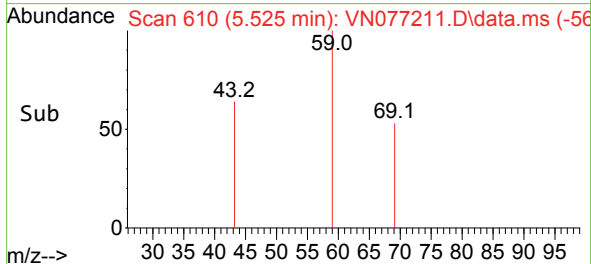
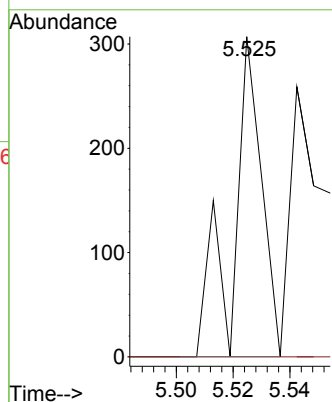
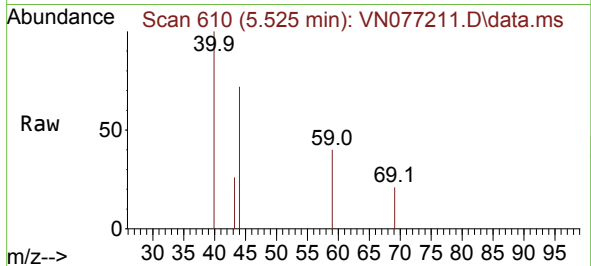




#11
Tert butyl alcohol
Concen: 0.226 ug/l
RT: 5.525 min Scan# 611
Delta R.T. -0.012 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

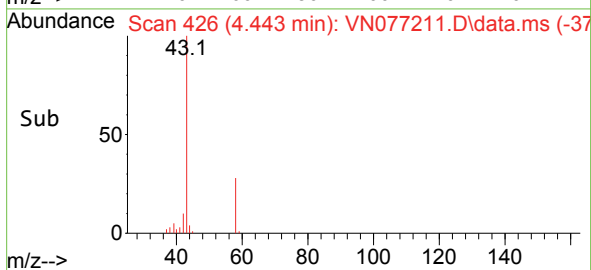
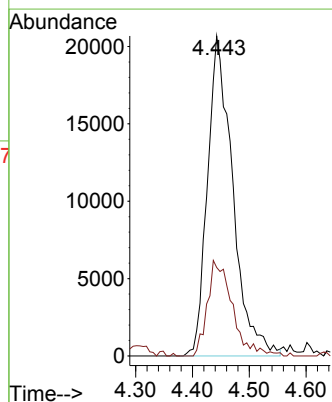
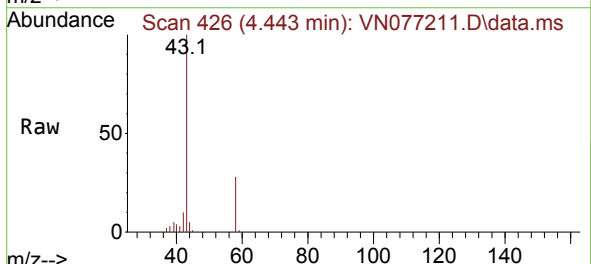
Instrument :
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PB151668ZHE#02

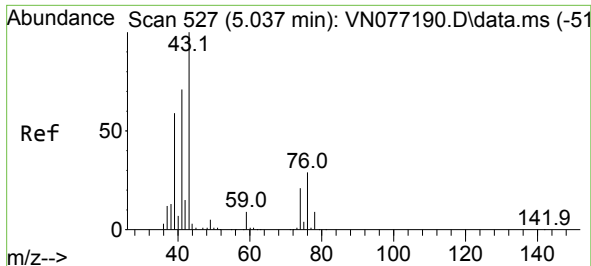
Tgt Ion: 59 Resp: 216
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 24.457 ug/l
RT: 4.443 min Scan# 426
Delta R.T. 0.006 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 43 Resp: 63887
Ion Ratio Lower Upper
43 100
58 27.7 28.2 42.2#

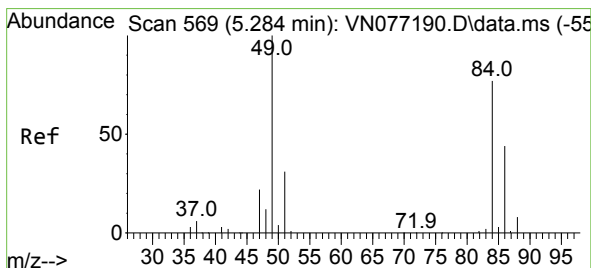
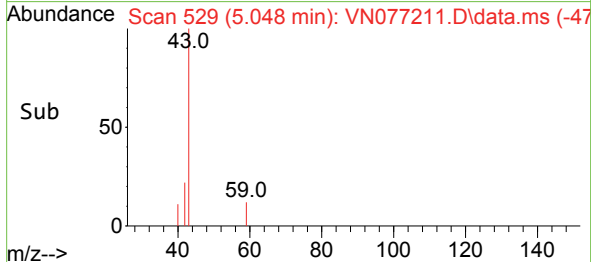
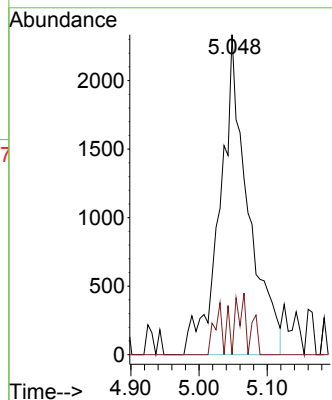
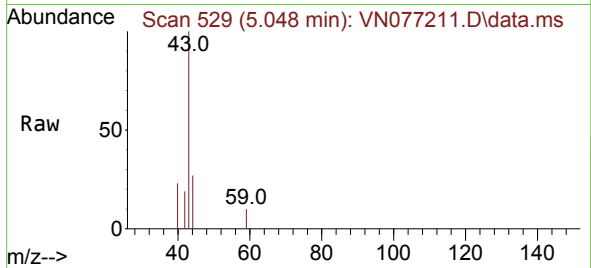




#18
Methyl Acetate
Concen: 0.637 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

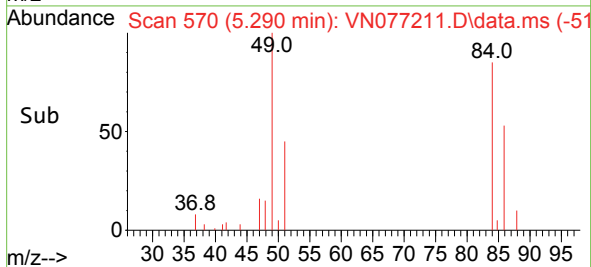
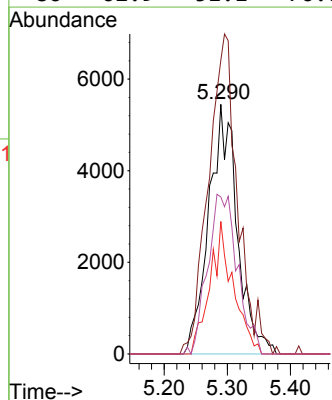
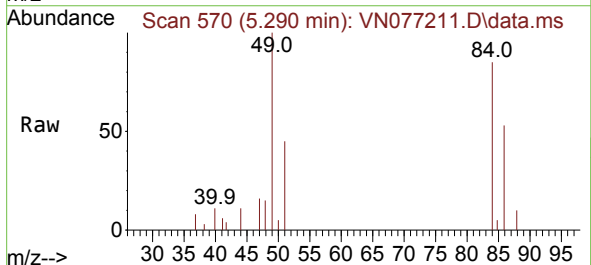
Instrument :
MSVOA_N
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PB151668ZHE#02

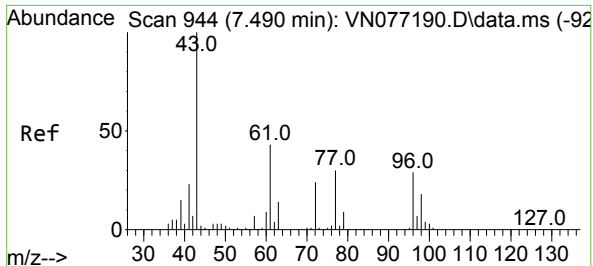
Tgt Ion: 43 Resp: 6658
Ion Ratio Lower Upper
43 100
74 7.6 25.9 38.9#



#20
Methylene Chloride
Concen: 2.938 ug/l
RT: 5.290 min Scan# 570
Delta R.T. 0.006 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 84 Resp: 17091
Ion Ratio Lower Upper
84 100
49 117.7 76.6 114.8#
51 53.1 25.4 38.2#
86 62.9 51.1 76.7

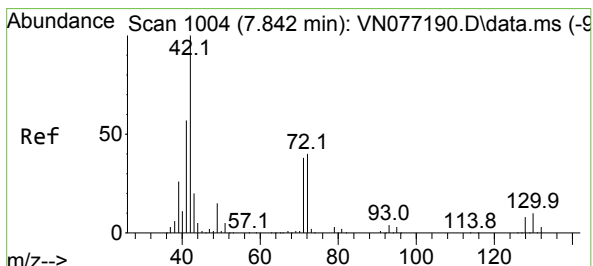
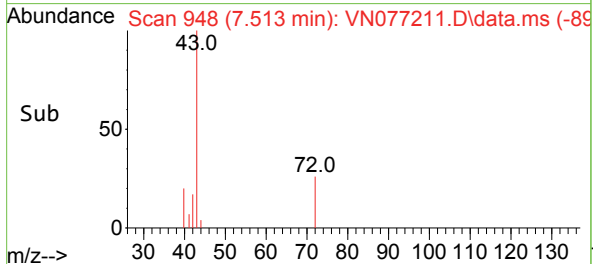
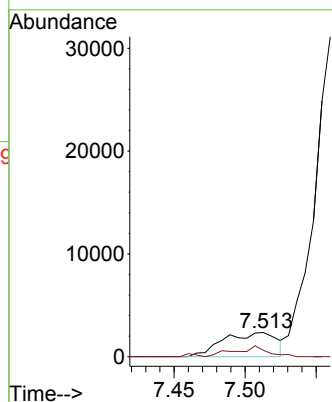
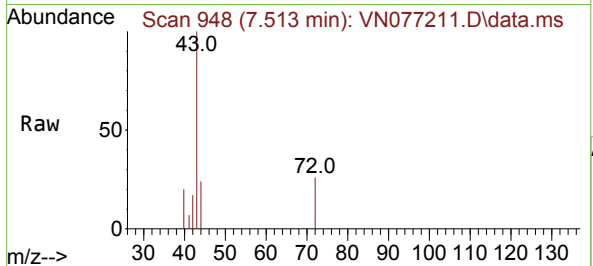




#25
2-Butanone
Concen: 1.509 ug/l
RT: 7.513 min Scan# 94
Delta R.T. 0.023 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

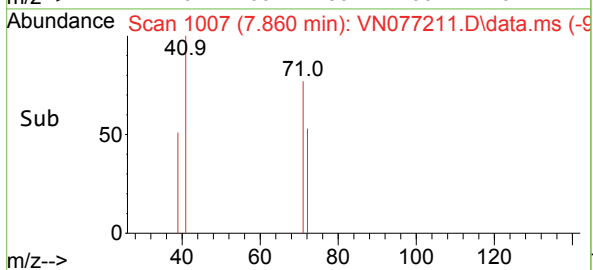
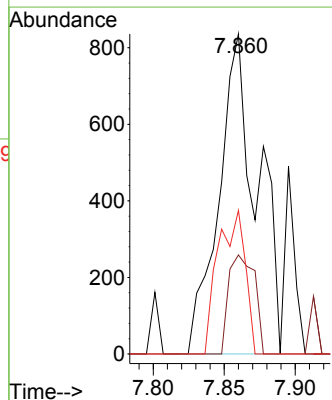
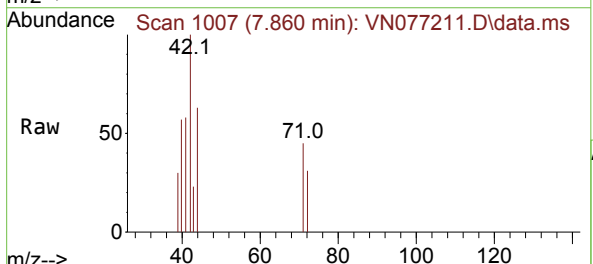
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#02

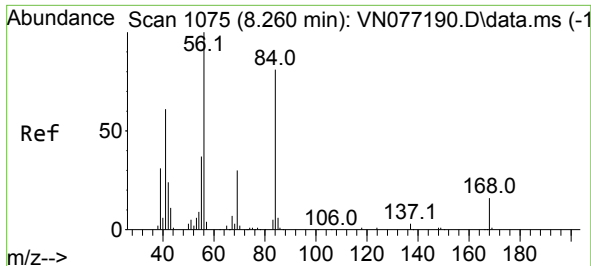
Tgt Ion: 43 Resp: 6163
Ion Ratio Lower Upper
43 100
72 26.4 28.8 43.2#



#29
Tetrahydrofuran
Concen: 0.580 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.018 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 42 Resp: 1570
Ion Ratio Lower Upper
42 100
72 20.9 48.6 73.0#
71 31.8 45.1 67.7#

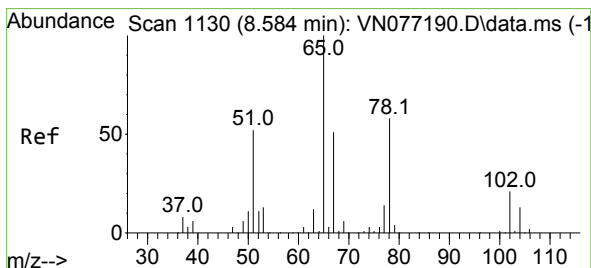
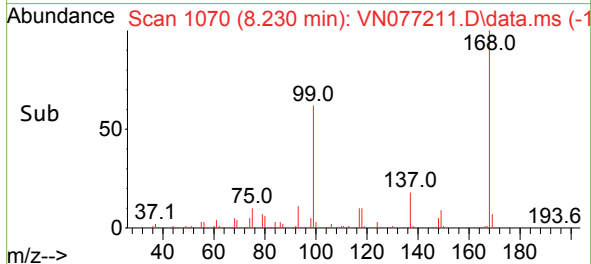
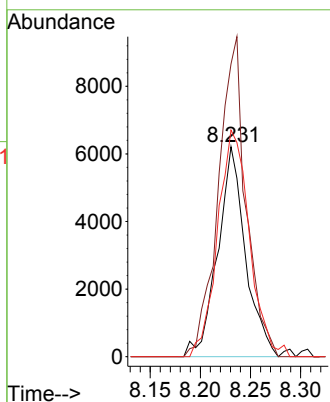
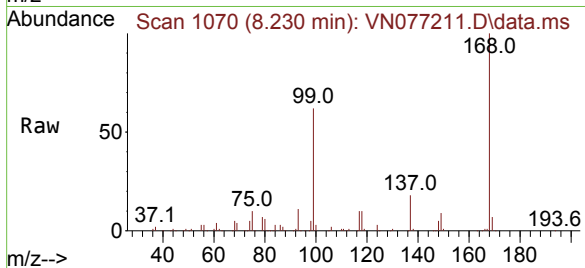




#31
Cyclohexane
Concen: 1.220 ug/l
RT: 8.230 min Scan# 1075
Delta R.T. -0.030 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

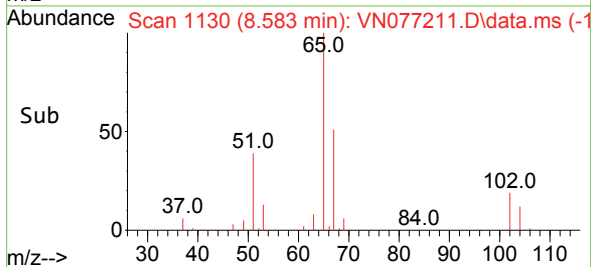
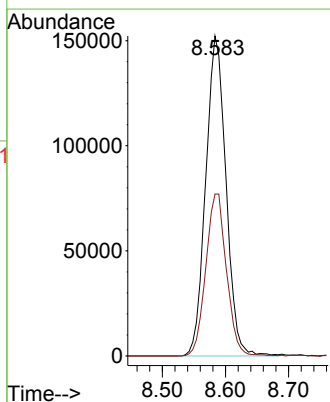
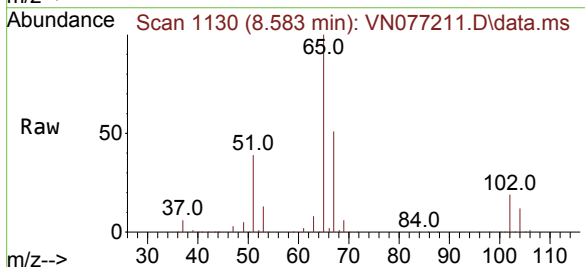
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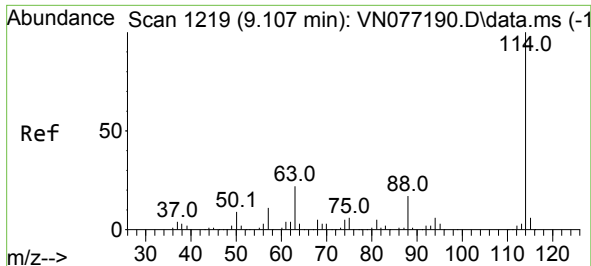
Tgt Ion: 56 Resp: 11910
Ion Ratio Lower Upper
56 100
69 139.4 27.0 40.6#
84 107.9 82.9 124.3



#33
1,2-Dichloroethane-d4
Concen: 48.330 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.001 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 65 Resp: 339546
Ion Ratio Lower Upper
65 100
67 51.7 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#02

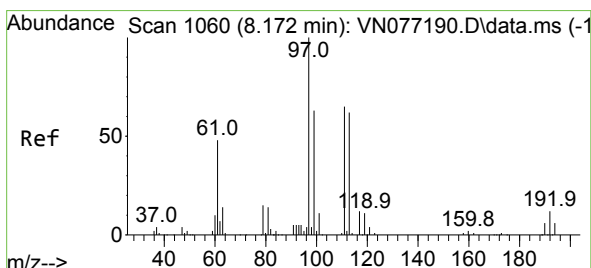
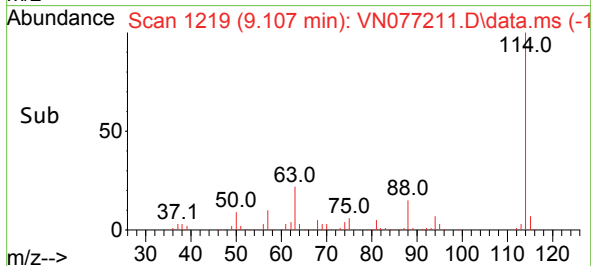
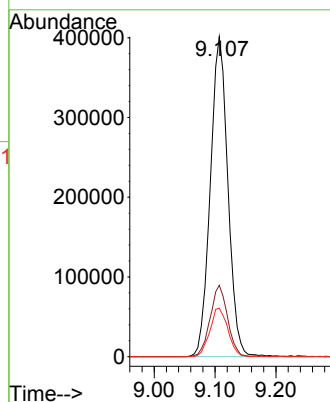
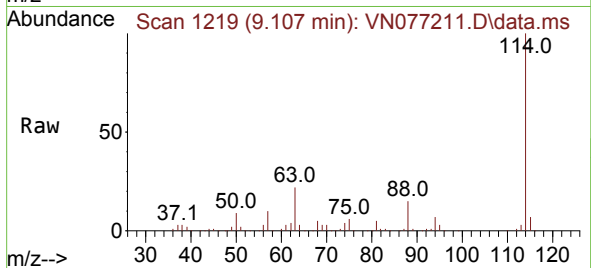
Tgt Ion:114 Resp: 804732

Ion Ratio Lower Upper

114 100

63 22.3 0.0 36.6

88 15.2 0.0 28.6



#35

Dibromofluoromethane

Concen: 46.944 ug/l

RT: 8.178 min Scan# 1061

Delta R.T. 0.006 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

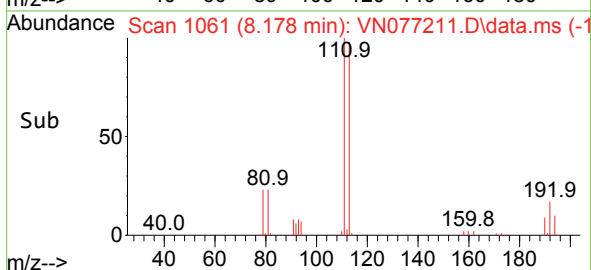
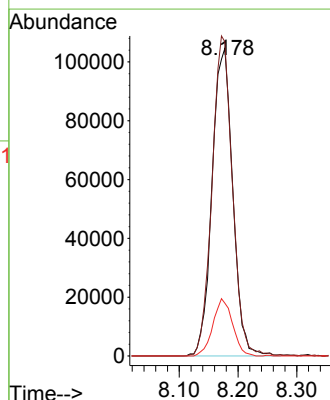
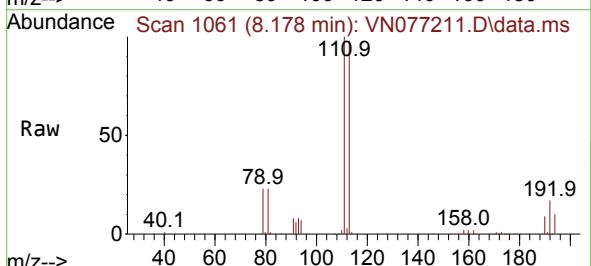
Tgt Ion:113 Resp: 256341

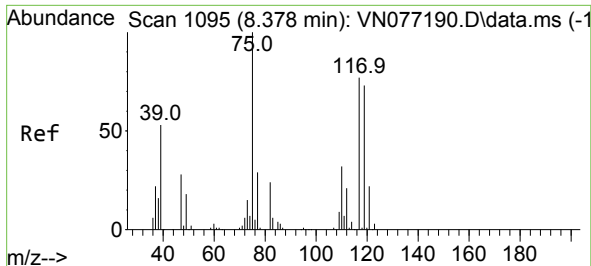
Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

192 17.7 13.9 20.9

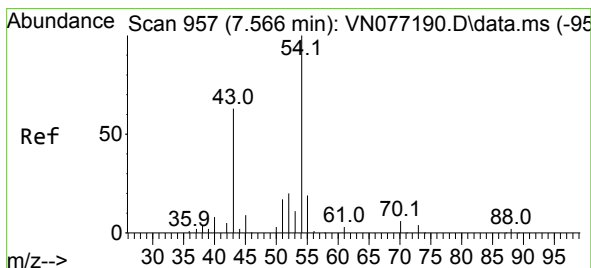
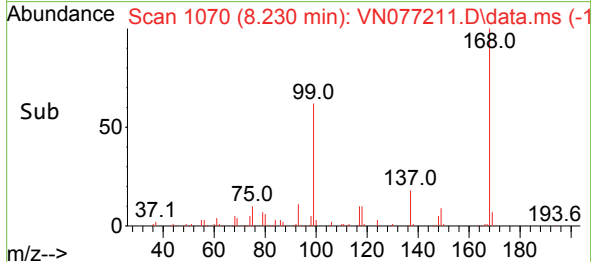
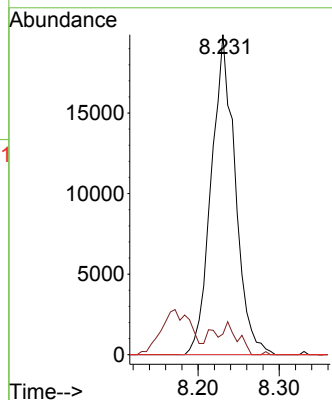
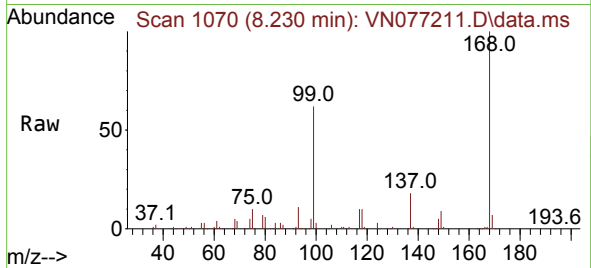




#36
1,1-Dichloropropene
Concen: 5.347 ug/l
RT: 8.230 min Scan# 1095
Delta R.T. -0.148 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

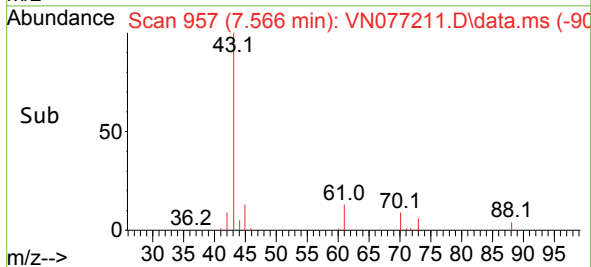
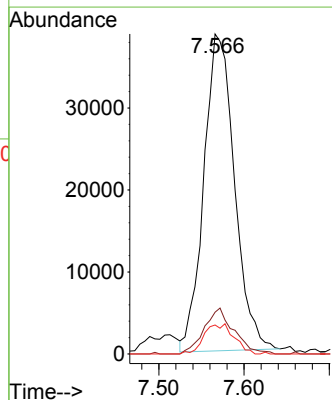
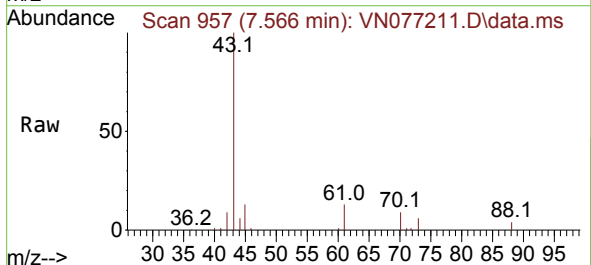
Instrument :
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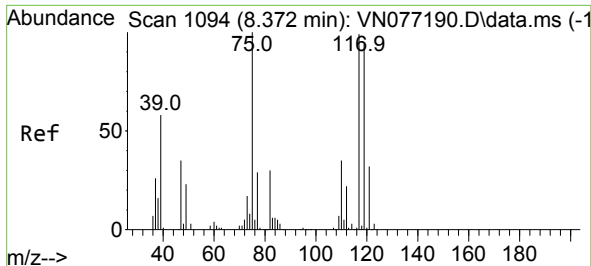
Tgt Ion: 75 Resp: 40635
Ion Ratio Lower Upper
75 100
110 6.3 18.9 56.9#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 11.410 ug/l
RT: 7.566 min Scan# 957
Delta R.T. -0.000 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

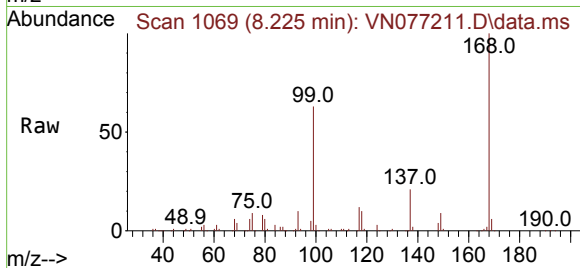
Tgt Ion: 43 Resp: 96652
Ion Ratio Lower Upper
43 100
61 14.0 13.5 20.3
70 9.2 11.0 16.6#



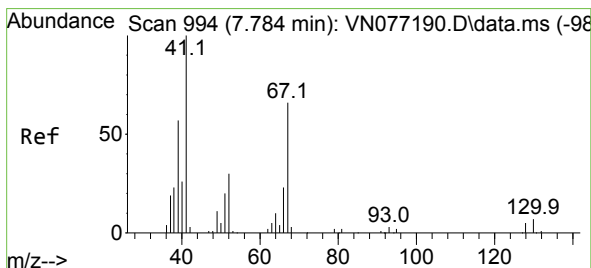
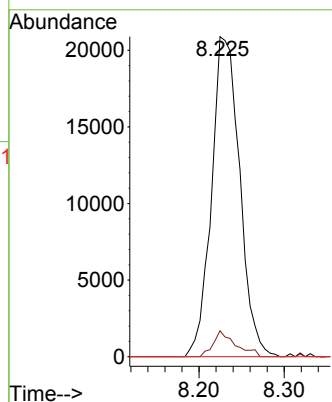
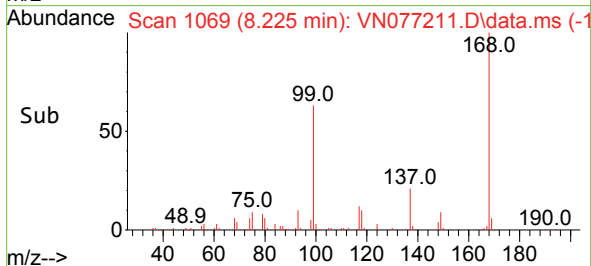


#38
Carbon Tetrachloride
Concen: 6.221 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.147 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#02

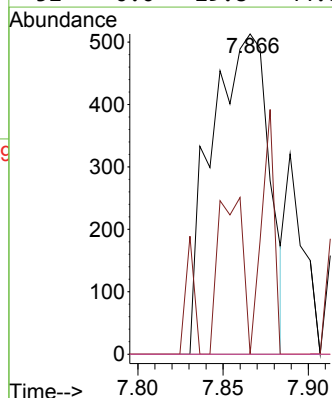
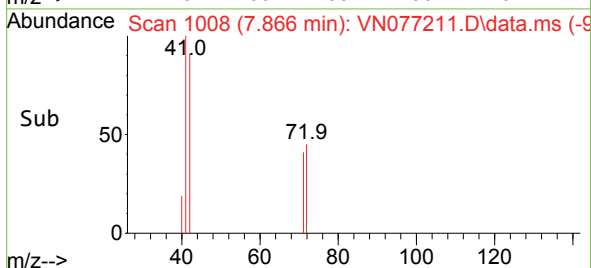
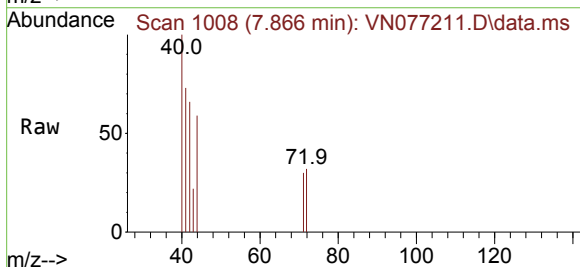


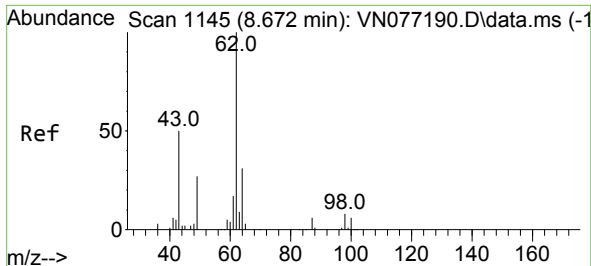
Tgt Ion:117 Resp: 47937
Ion Ratio Lower Upper
117 100
119 8.1 76.9 115.3#
121 0.0 23.2 34.8#



#41
Methacrylonitrile
Concen: 0.261 ug/l
RT: 7.866 min Scan# 1008
Delta R.T. 0.082 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 41 Resp: 1210
Ion Ratio Lower Upper
41 100
39 21.0 43.4 65.0#
67 0.0 78.6 118.0#
52 0.0 29.8 44.8#





#42

1,2-Dichloroethane

Concen: 0.391 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.017 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

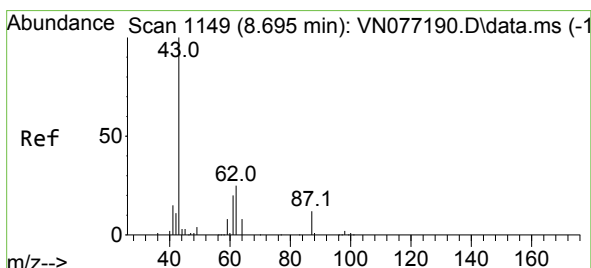
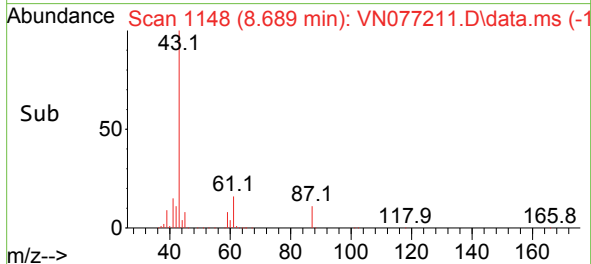
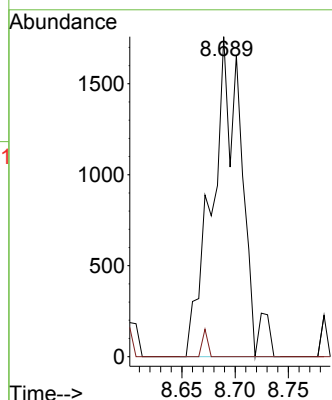
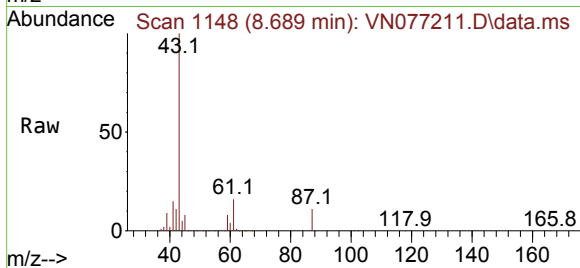
PB151668ZHE#02

Tgt Ion: 62 Resp: 3436

Ion Ratio Lower Upper

62 100

98 1.5 0.0 21.8



#43

Isopropyl Acetate

Concen: 36.438 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

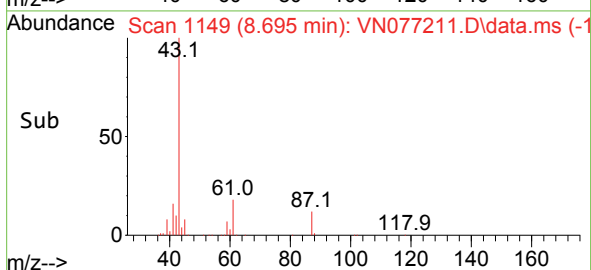
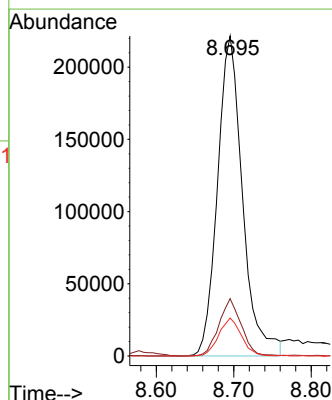
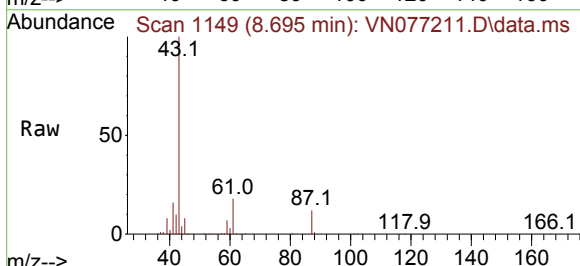
Tgt Ion: 43 Resp: 497978

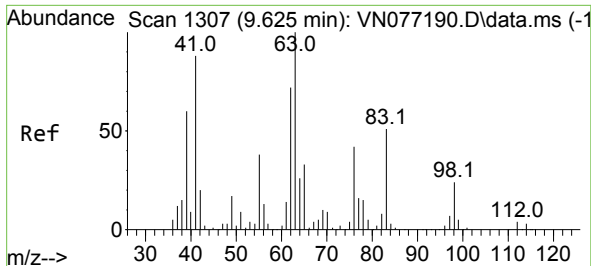
Ion Ratio Lower Upper

43 100

61 16.1 26.2 39.2#

87 10.7 14.8 22.2#





#45

1,2-Dichloropropane

Concen: 0.813 ug/l

RT: 9.736 min Scan# 1326

Delta R.T. 0.111 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

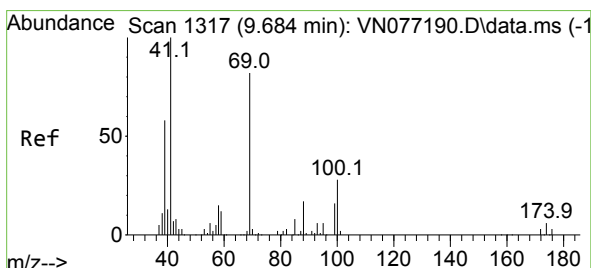
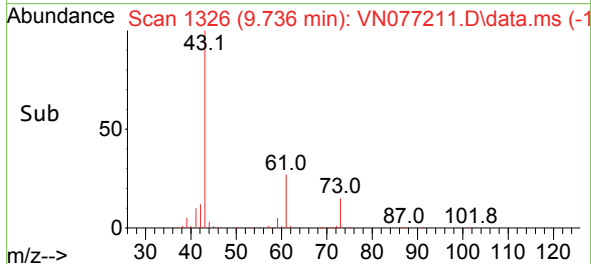
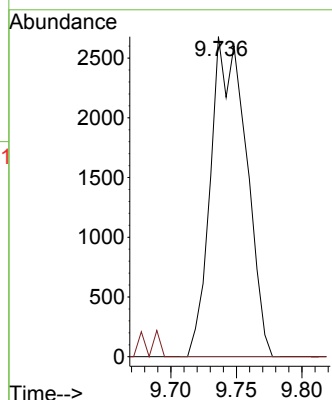
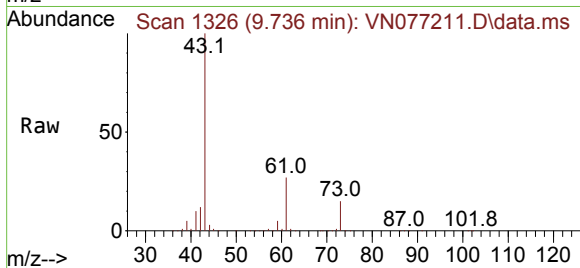
PB151668ZHE#02

Tgt Ion: 63 Resp: 5034

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



#48

Methyl methacrylate

Concen: 60.571 ug/l

RT: 9.748 min Scan# 1328

Delta R.T. 0.064 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

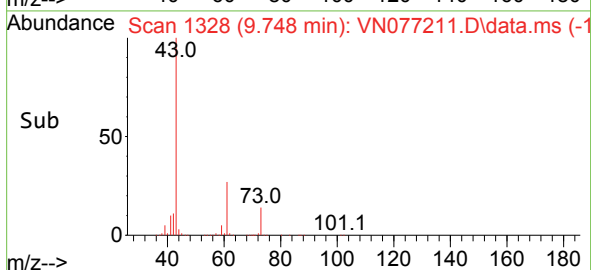
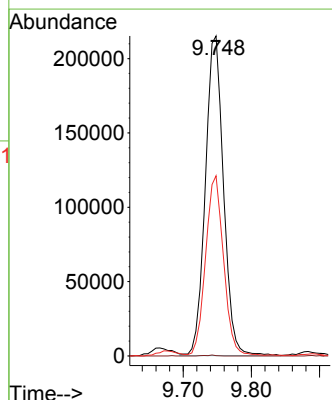
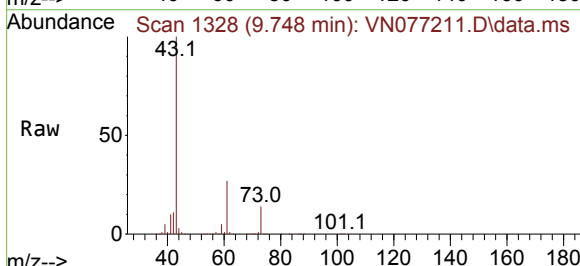
Tgt Ion: 41 Resp: 398625

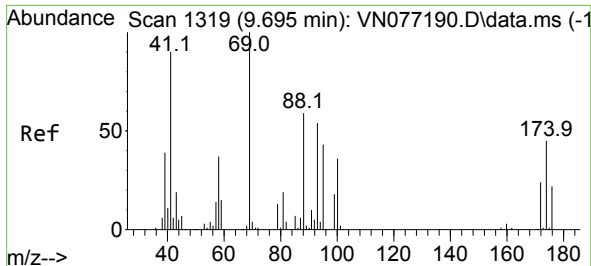
Ion Ratio Lower Upper

41 100

69 0.2 92.6 139.0#

39 55.5 51.4 77.0





#49

1,4-Dioxane

Concen: 1.382 ug/l

RT: 9.672 min Scan# 11

Delta R.T. -0.023 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#02

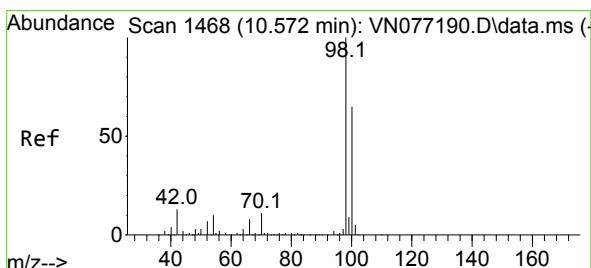
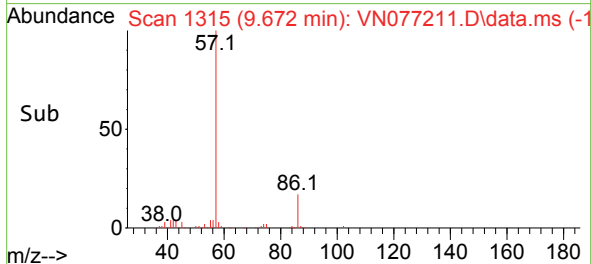
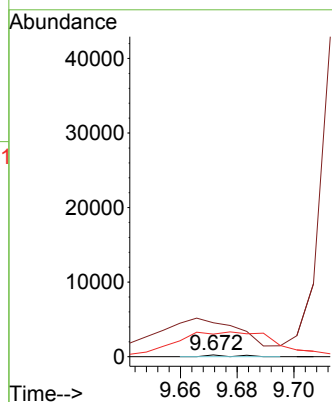
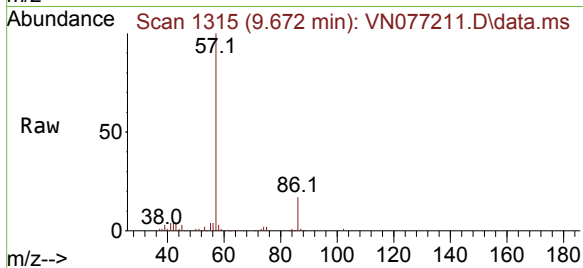
Tgt Ion: 88 Resp: 155

Ion Ratio Lower Upper

88 100

43 0.0 15.3 22.9#

58 5434.2 47.6 71.4#



#50

Toluene-d8

Concen: 49.071 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077211.D

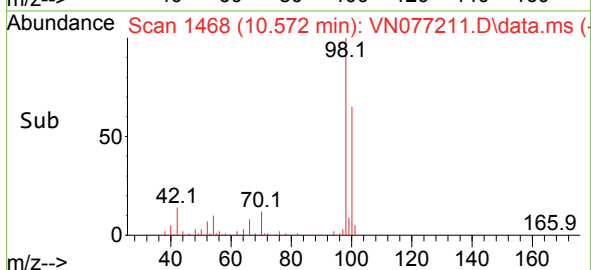
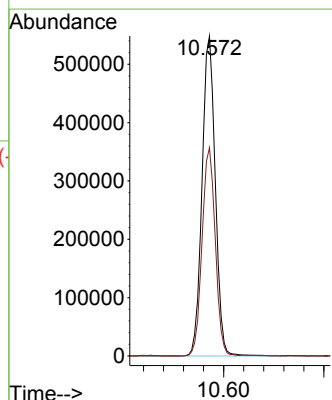
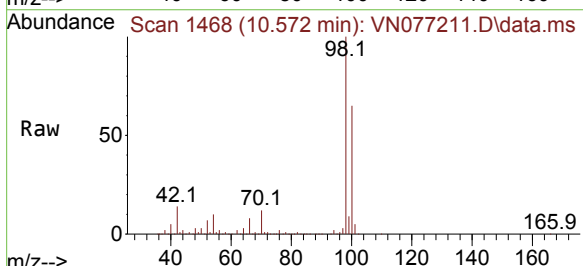
Acq: 27 Mar 2023 19:27

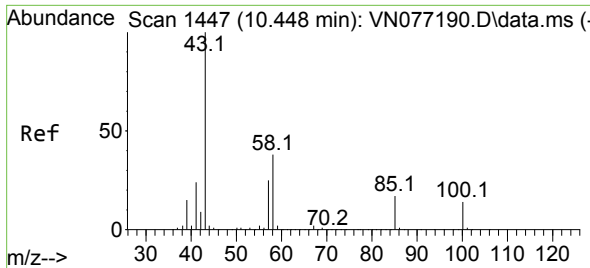
Tgt Ion: 98 Resp: 1004033

Ion Ratio Lower Upper

98 100

100 65.0 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 39.548 ug/l

RT: 10.360 min Scan# 14

Delta R.T. -0.088 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

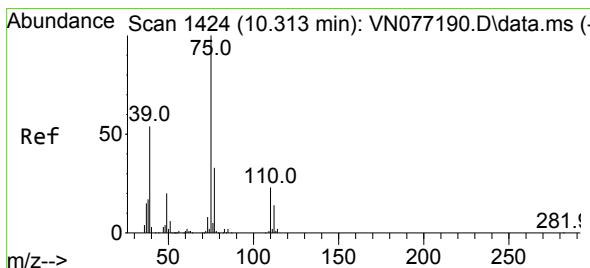
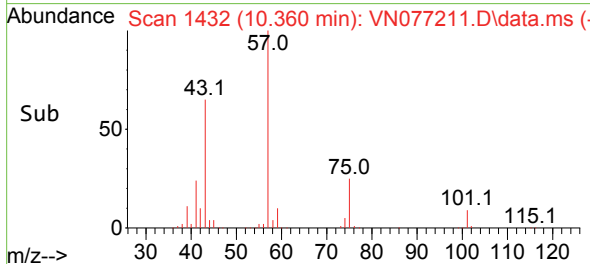
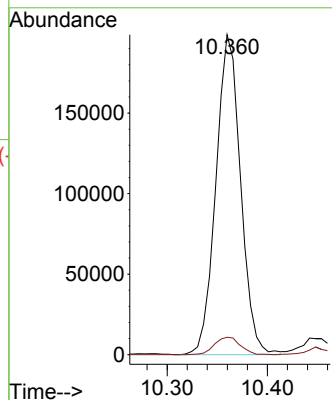
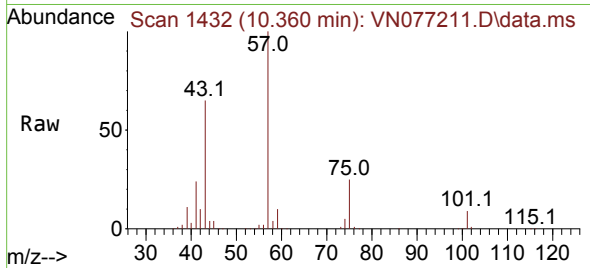
PB151668ZHE#02

Tgt Ion: 43 Resp: 340067

Ion Ratio Lower Upper

43 100

58 5.7 37.4 56.0#



#54

cis-1,3-Dichloropropene

Concen: 15.754 ug/l

RT: 10.360 min Scan# 1432

Delta R.T. 0.047 min

Lab File: VN077211.D

Acq: 27 Mar 2023 19:27

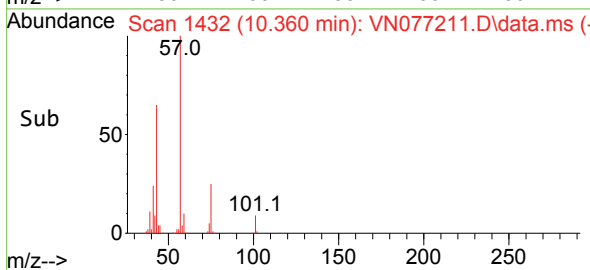
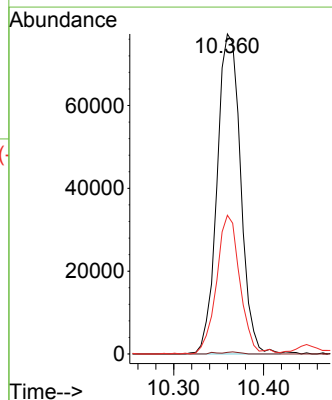
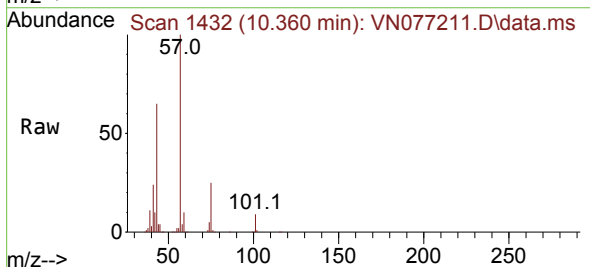
Tgt Ion: 75 Resp: 140868

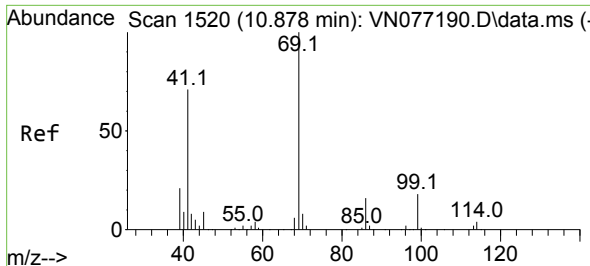
Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 43.3 29.7 44.5

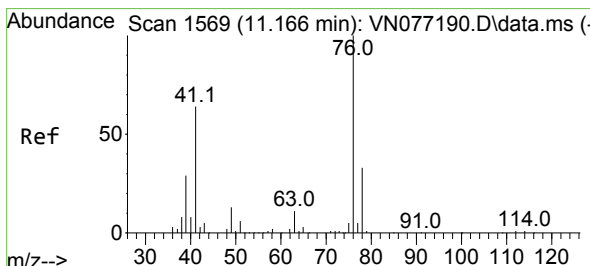
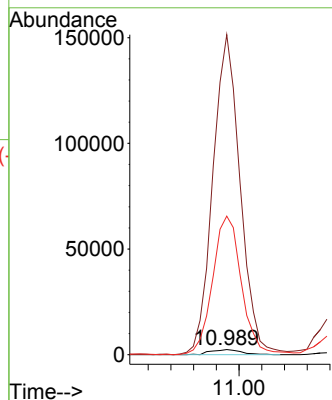
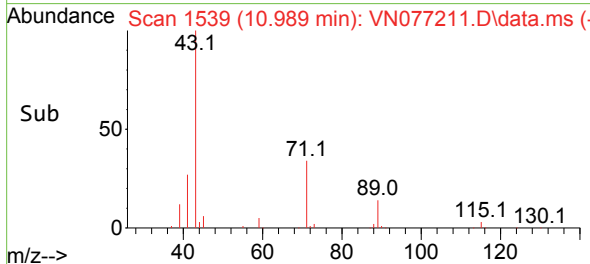
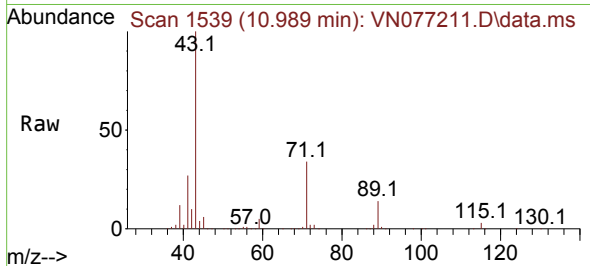




#56
Ethyl methacrylate
Concen: 0.550 ug/l
RT: 10.989 min Scan# 1539
Delta R.T. 0.111 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

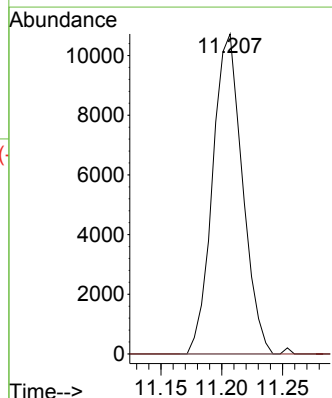
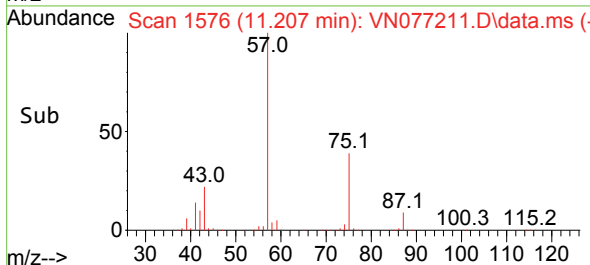
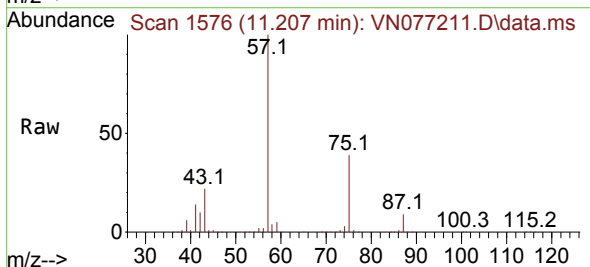
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#02

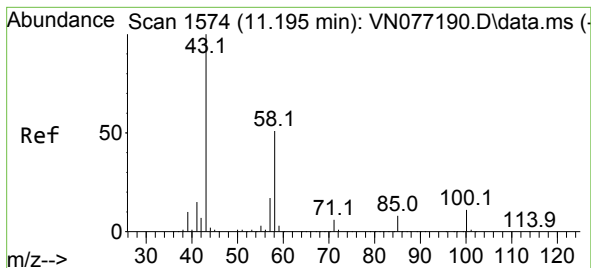
Tgt Ion: 69 Resp: 4528
Ion Ratio Lower Upper
69 100
41 5601.6 38.0 57.0#
39 2561.4 22.4 33.6#



#57
1,3-Dichloropropane
Concen: 1.839 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 76 Resp: 18283
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

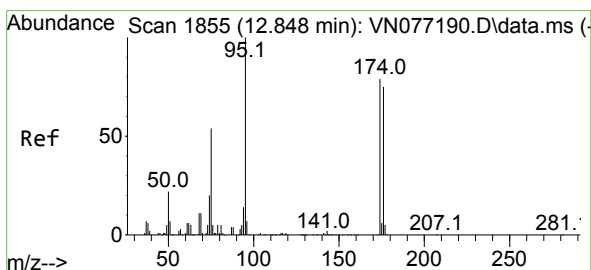
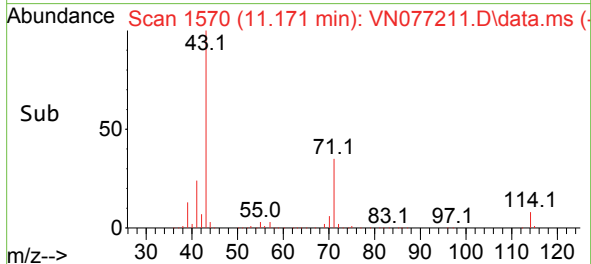
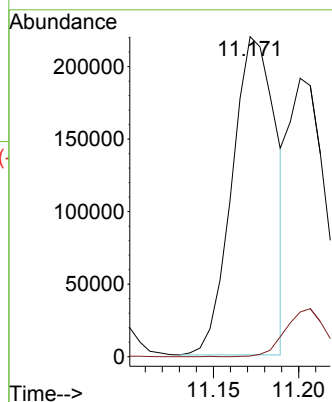
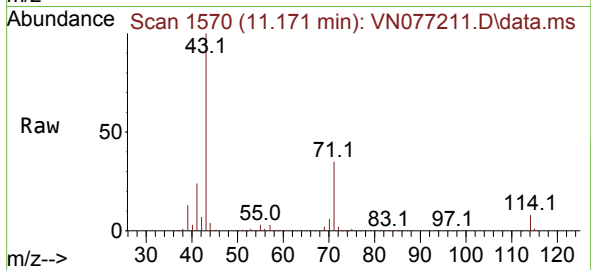




#59
2-Hexanone
Concen: 63.466 ug/l
RT: 11.171 min Scan# 11171
Delta R.T. -0.024 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

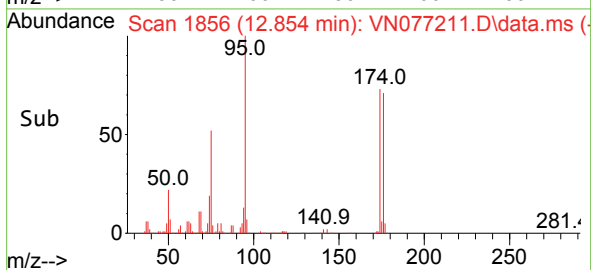
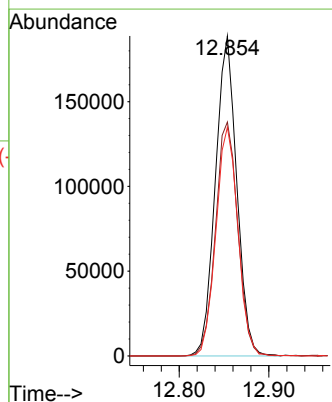
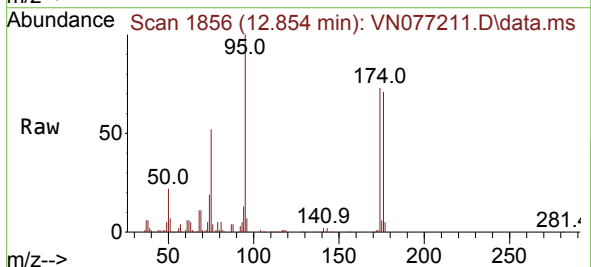
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#02

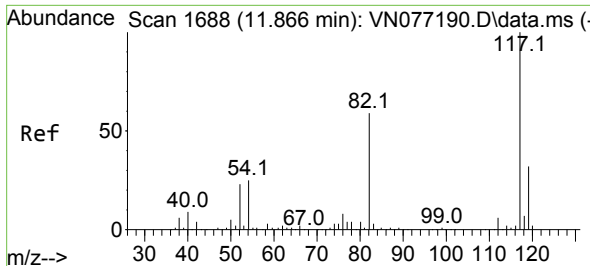
Tgt Ion: 43 Resp: 392200
Ion Ratio Lower Upper
43 100
58 0.0 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 46.445 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 95 Resp: 311884
Ion Ratio Lower Upper
95 100
174 76.5 0.0 162.4
176 73.6 0.0 157.4

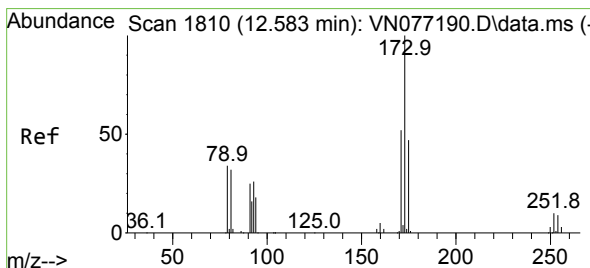
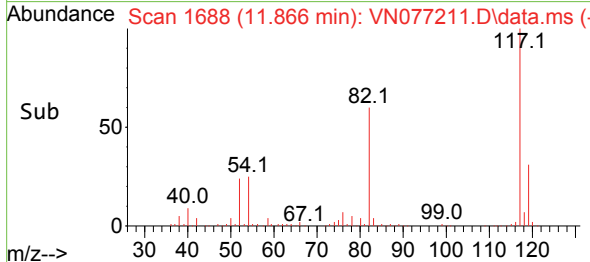
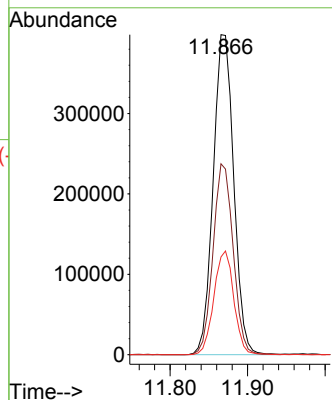
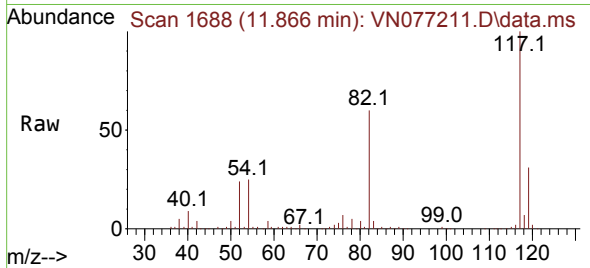




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

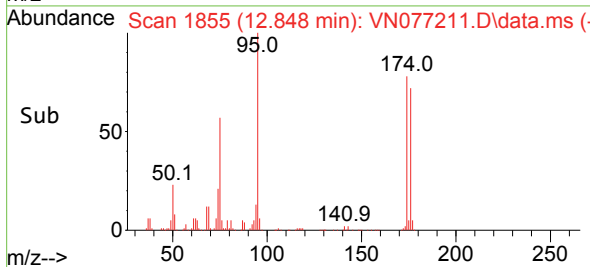
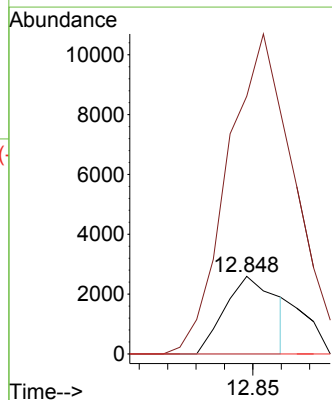
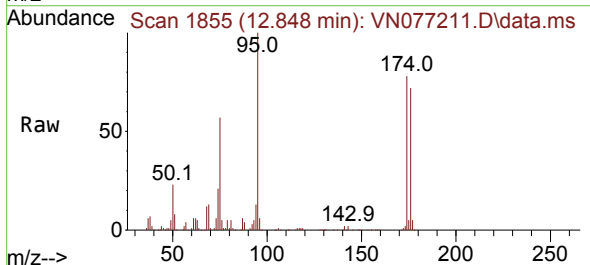
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#02

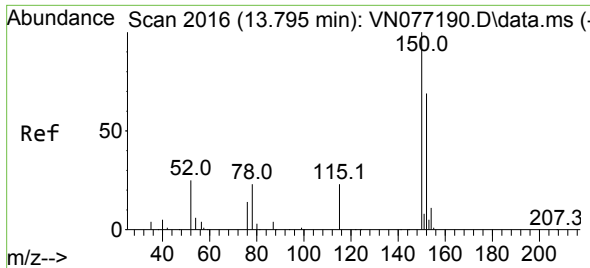
Tgt Ion:117 Resp: 732801
Ion Ratio Lower Upper
117 100
82 59.7 43.5 65.3
119 30.5 25.5 38.3



#71
Bromoform
Concen: 0.821 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.265 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion:173 Resp: 3280
Ion Ratio Lower Upper
173 100
175 423.4 24.9 74.6#
254 0.0 0.0 0.0

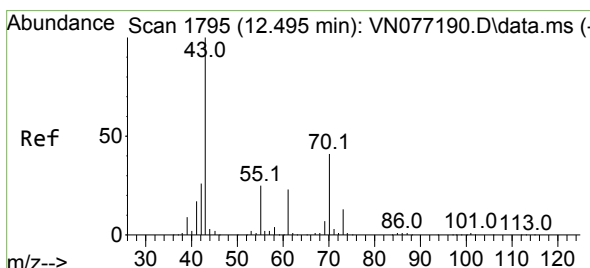
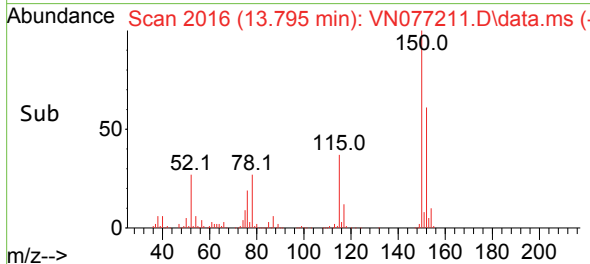
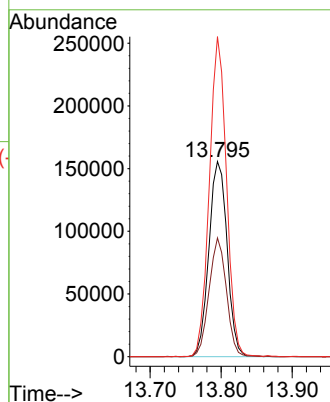
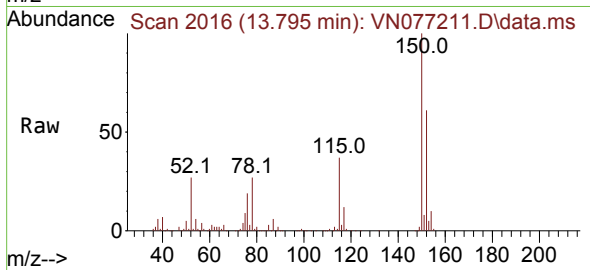




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

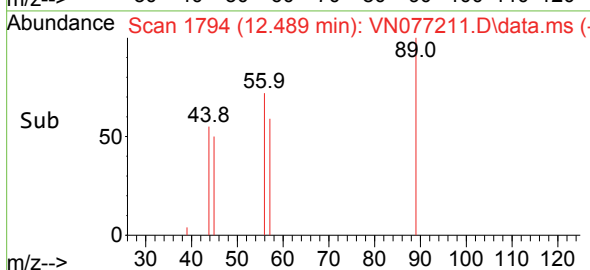
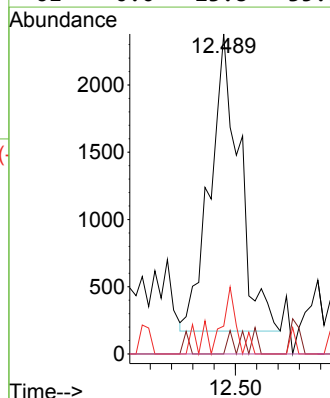
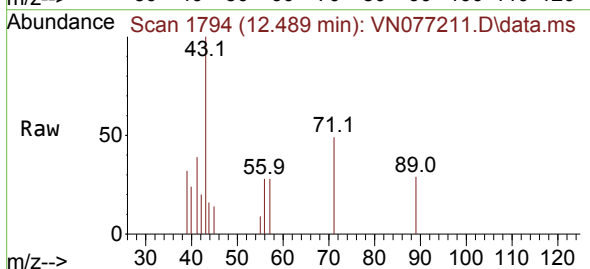
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#02

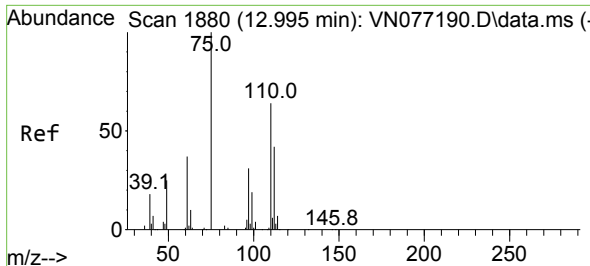
Tgt Ion:152 Resp: 277533
Ion Ratio Lower Upper
152 100
115 58.0 30.3 90.9
150 153.9 0.0 353.6



#74
N-ethyl acetate
Concen: 0.445 ug/l
RT: 12.489 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 43 Resp: 4239
Ion Ratio Lower Upper
43 100
70 0.0 46.8 70.2#
55 10.5 23.4 35.2#
61 0.0 23.8 35.8#

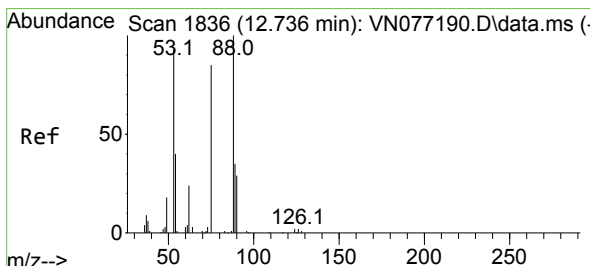
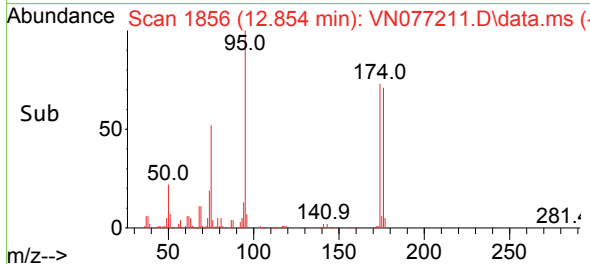
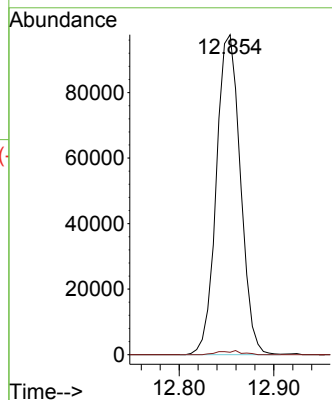
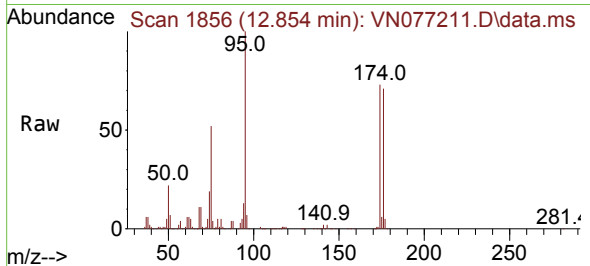




#76
1,2,3-Trichloropropane
Concen: 30.612 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

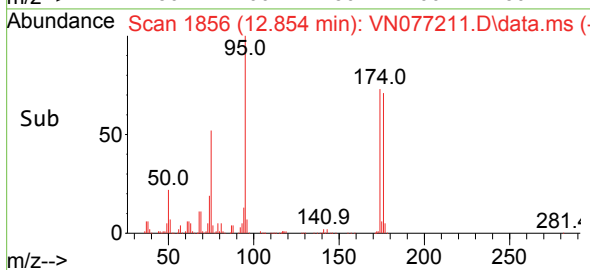
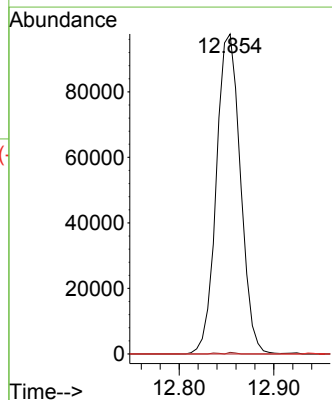
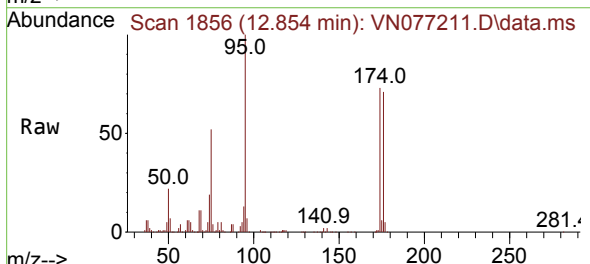
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#02

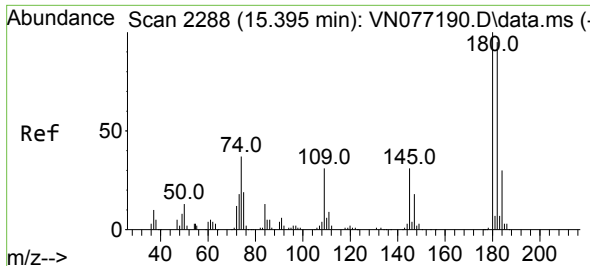
Tgt Ion: 75 Resp: 172345
Ion Ratio Lower Upper
75 100
77 1.2 93.8 281.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.228 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion: 75 Resp: 172345
Ion Ratio Lower Upper
75 100
53 0.3 67.4 101.0#
89 0.0 39.5 59.3#

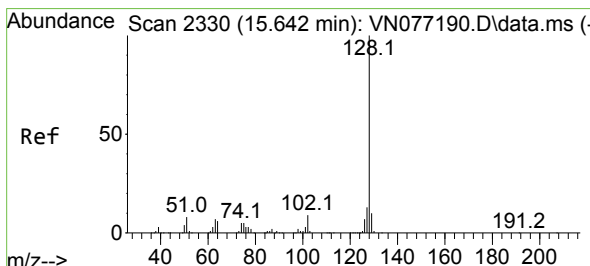
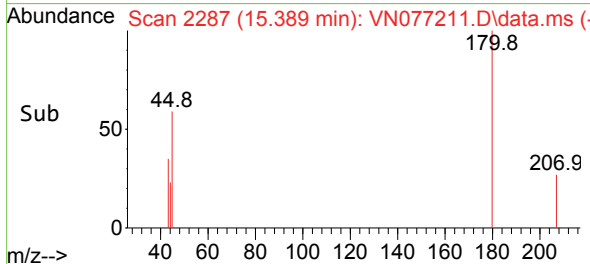
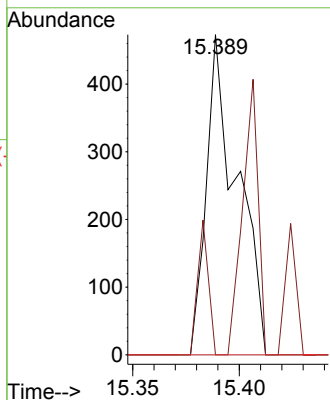
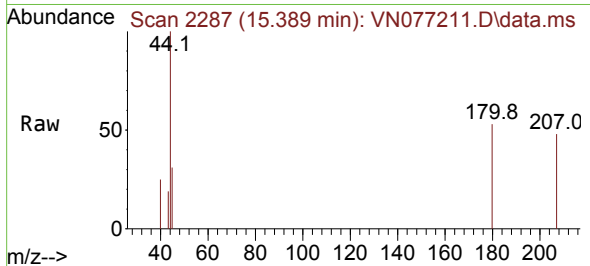




#93
1,2,4-Trichlorobenzene
Concen: 4.474 ug/l
RT: 15.389 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

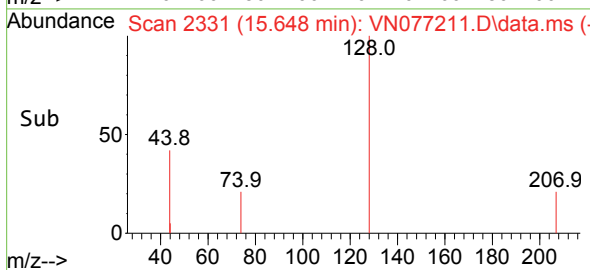
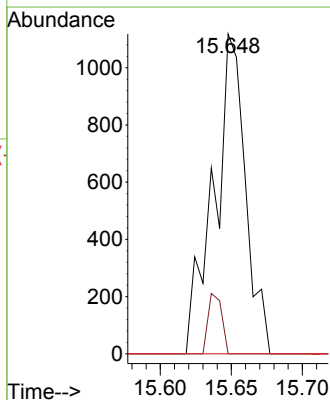
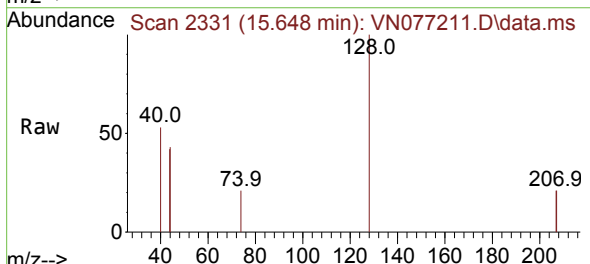
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#02

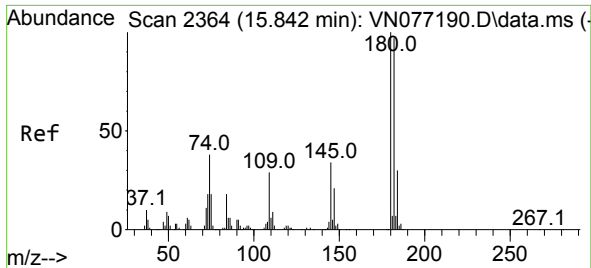
Tgt Ion:180 Resp: 474
Ion Ratio Lower Upper
180 100
182 14.8 47.4 142.2#
145 0.0 15.8 47.3#



#95
Naphthalene
Concen: 6.018 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077211.D
Acq: 27 Mar 2023 19:27

Tgt Ion:128 Resp: 1726
Ion Ratio Lower Upper
128 100
127 8.1 10.2 15.4#
129 0.0 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 4.688 ug/l
 RT: 15.836 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN077211.D
 Acq: 27 Mar 2023 19:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#02

Tgt Ion:180 Resp: 190
 Ion Ratio Lower Upper
 180 100
 182 173.7 47.7 143.1#
 145 0.0 17.0 51.0#

