

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077221.D
 Acq On : 27 Mar 2023 23:30
 Operator : JC\MD
 Sample : 02081-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 152140-TCLP-E-032223

Quant Time: Mar 28 07:47:44 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)

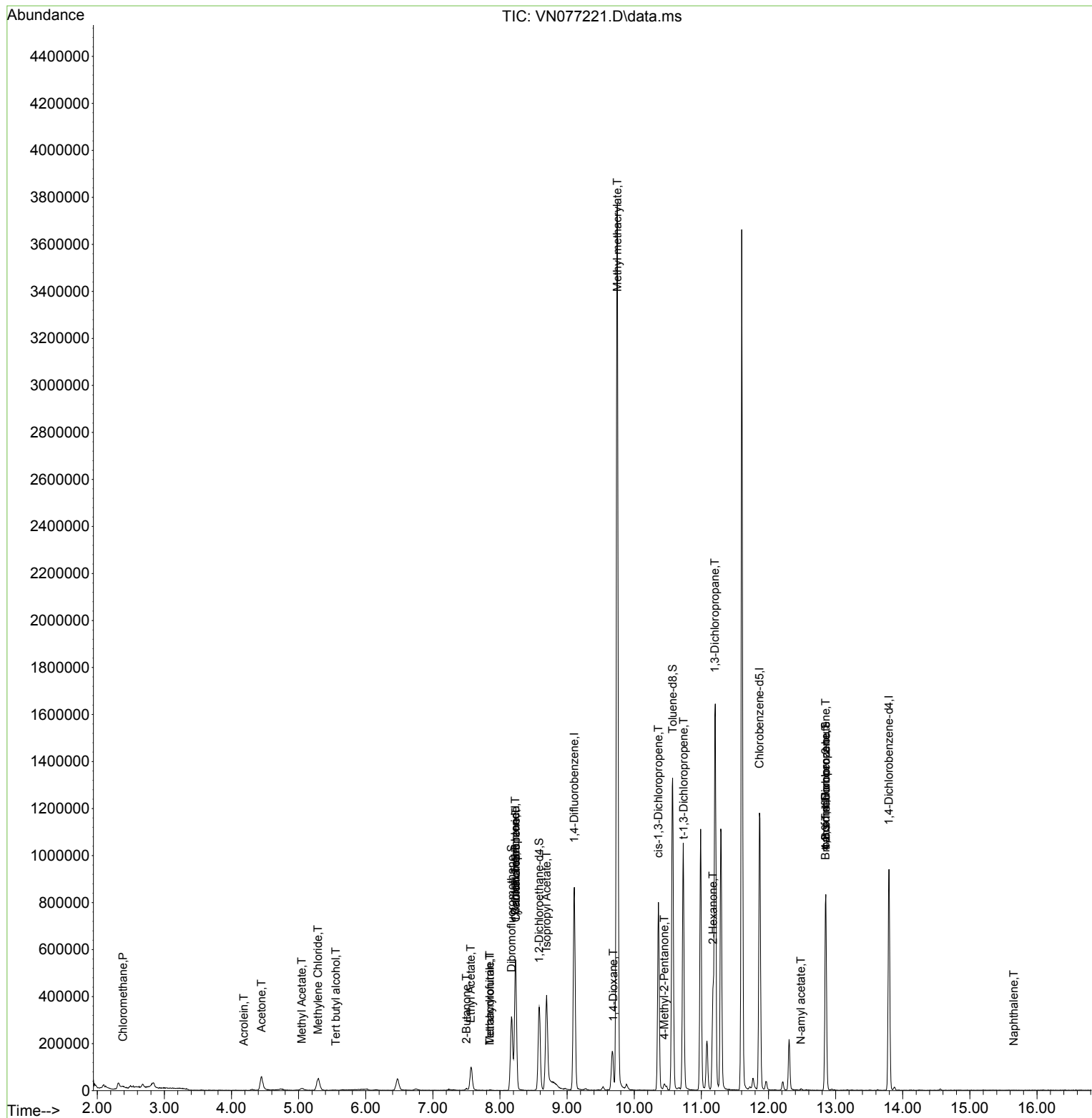
Internal Standards						
1) Pentafluorobenzene	8.231	168	384314	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	703586	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	660035	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	243136	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	299177	49.789	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.580%		
35) Dibromofluoromethane	8.172	113	221137	46.319	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.640%		
50) Toluene-d8	10.572	98	900115	50.317	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.640%		
62) 4-Bromofluorobenzene	12.854	95	273298	46.550	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.100%		
Target Compounds						Qvalue
3) Chloromethane	2.384	50	1480	0.263	ug/l #	80
11) Tert butyl alcohol	5.554	59	675	0.824	ug/l #	72
13) Acrolein	4.184	56	302	0.263	ug/l #	14
16) Acetone	4.449	43	107964	48.322	ug/l	99
18) Methyl Acetate	5.048	43	19274	2.156	ug/l #	80
20) Methylene Chloride	5.290	84	41187	8.278	ug/l #	87
25) 2-Butanone	7.501	43	10306	2.950	ug/l #	78
29) Tetrahydrofuran	7.848	42	977	0.422	ug/l #	81
31) Cyclohexane	8.236	56	10532	1.262	ug/l #	56
36) 1,1-Dichloropropene	8.236	75	35180	5.295	ug/l #	47
37) Ethyl Acetate	7.566	43	154310	20.835	ug/l #	90
38) Carbon Tetrachloride	8.231	117	42433	6.298	ug/l #	18
41) Methacrylonitrile	7.848	41	1141	0.282	ug/l #	18
43) Isopropyl Acetate	8.695	43	497364	41.625	ug/l #	73
48) Methyl methacrylate	9.748	41	366564	63.706	ug/l #	28
49) 1,4-Dioxane	9.689	88	95	0.968	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	16726	2.225	ug/l	90
53) t-1,3-Dichloropropene	10.736	75	2566	0.359	ug/l #	46
54) cis-1,3-Dichloropropene	10.360	75	127405	16.296	ug/l #	69
57) 1,3-Dichloropropane	11.201	76	16430	1.890	ug/l #	43
59) 2-Hexanone	11.172	43	347466	64.310	ug/l #	17
71) Bromoform	12.848	173	3111	0.864	ug/l #	1
74) N-amyl acetate	12.483	43	4502	0.540	ug/l #	36
76) 1,2,3-Trichloropropane	12.854	75	154091	31.242	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	154091	90.043	ug/l #	15
95) Naphthalene	15.654	128	211	5.930	ug/l #	69

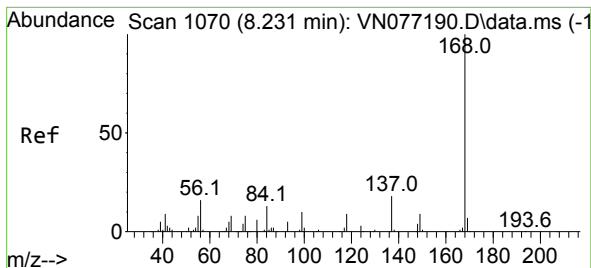
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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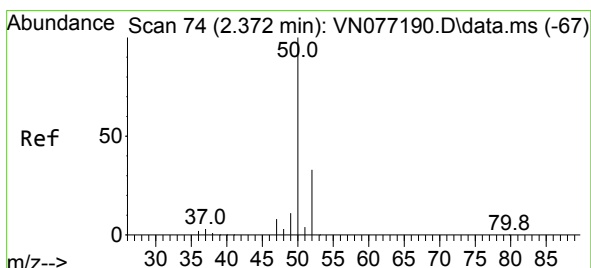
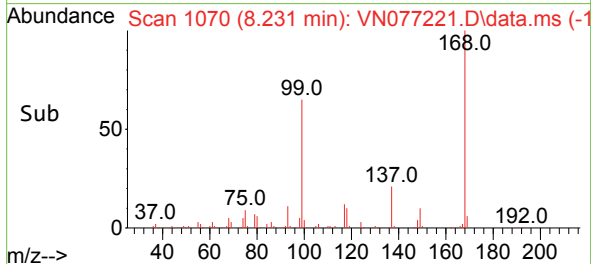
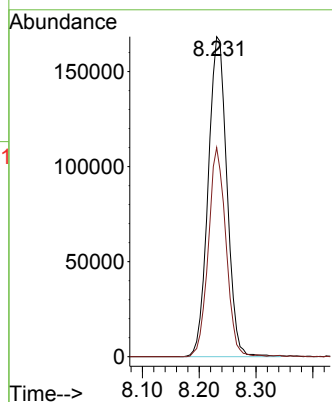
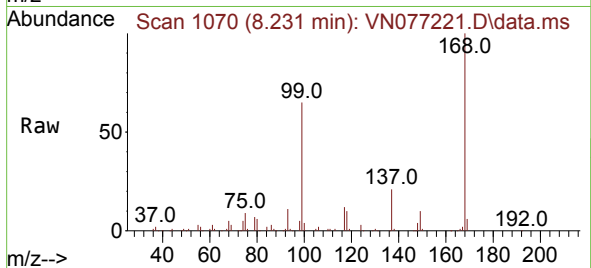




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

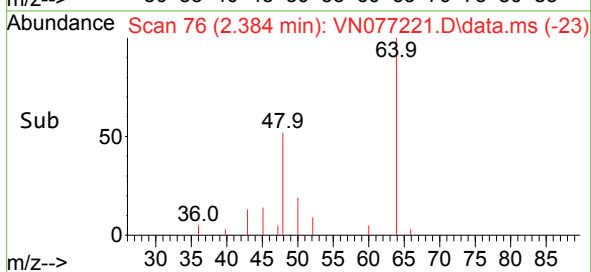
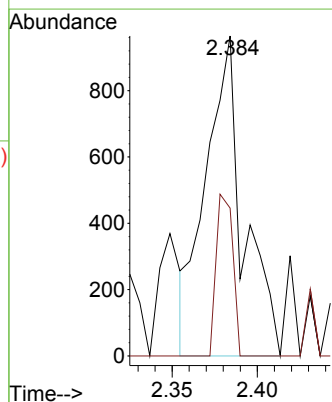
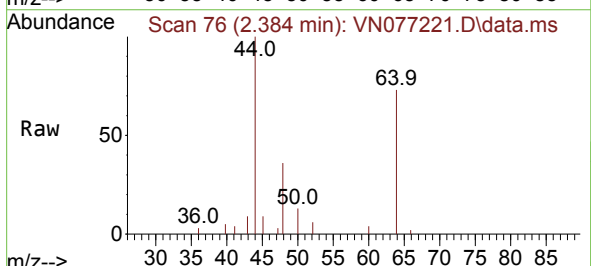
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

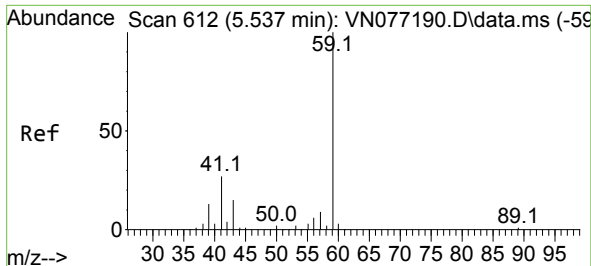
Tgt Ion:168 Resp: 384314
Ion Ratio Lower Upper
168 100
99 65.4 48.6 73.0



#3
Chloromethane
Concen: 0.263 ug/l
RT: 2.384 min Scan# 76
Delta R.T. 0.012 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 50 Resp: 1480
Ion Ratio Lower Upper
50 100
52 46.2 27.9 41.9#

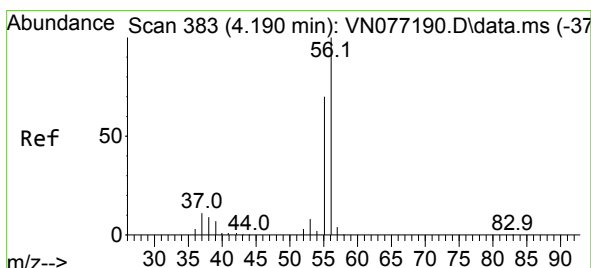
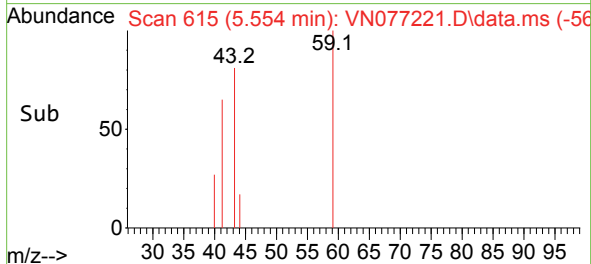
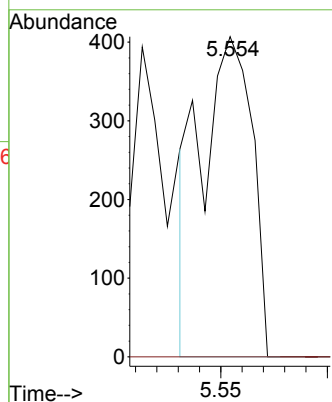
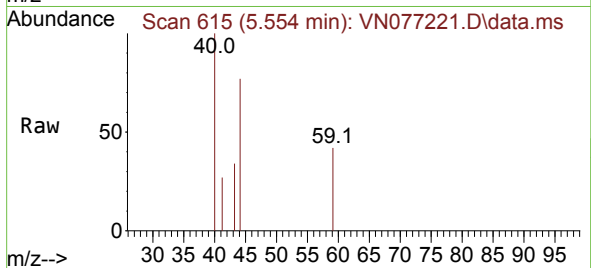




#11
Tert butyl alcohol
Concen: 0.824 ug/l
RT: 5.554 min Scan# 612
Delta R.T. 0.017 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

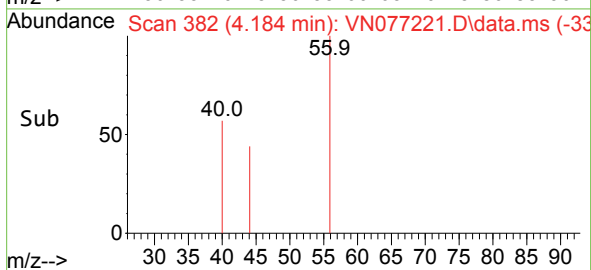
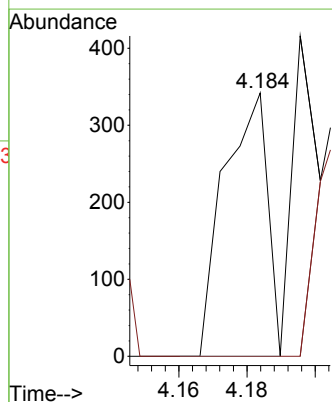
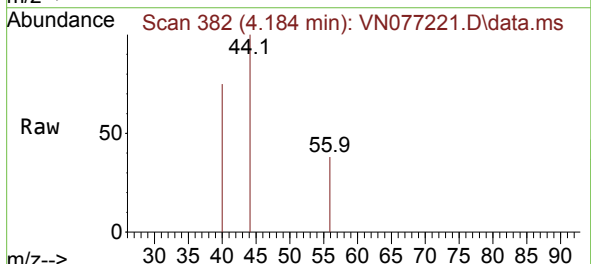
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

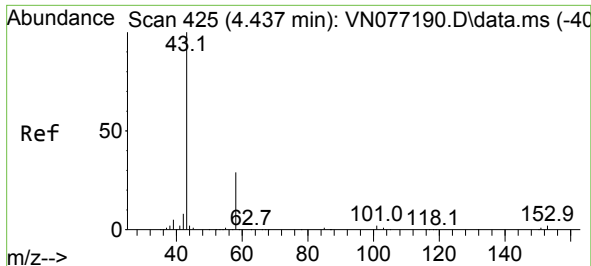
Tgt Ion: 59 Resp: 675
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.263 ug/l
RT: 4.184 min Scan# 382
Delta R.T. -0.006 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 56 Resp: 302
Ion Ratio Lower Upper
56 100
55 0.0 56.7 85.1#

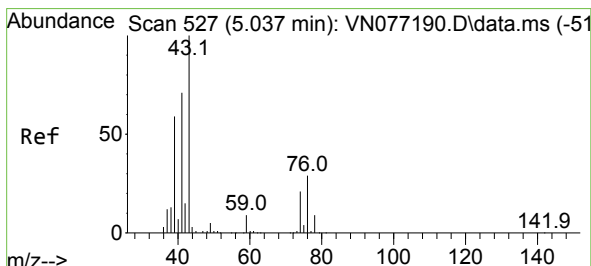
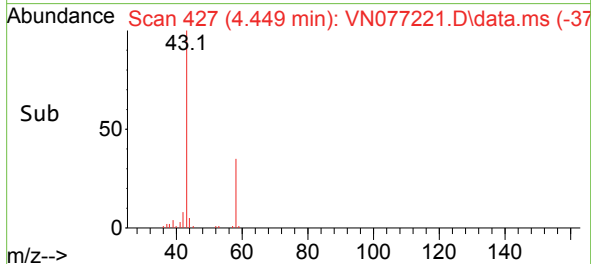
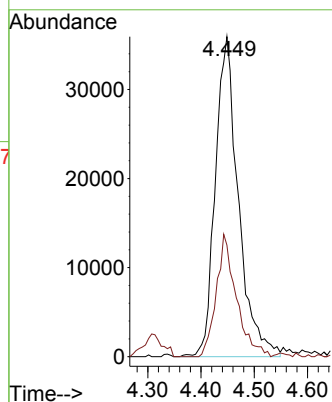
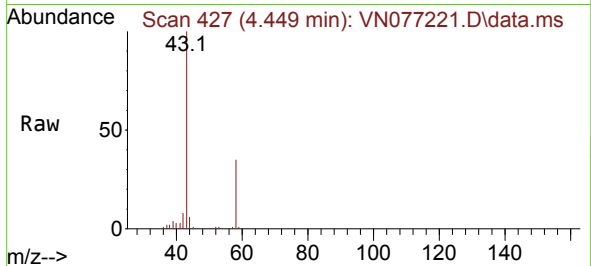




#16
Acetone
Concen: 48.322 ug/l
RT: 4.449 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

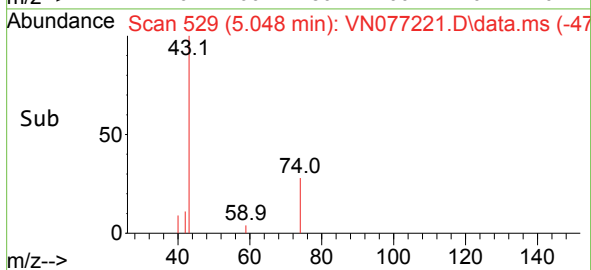
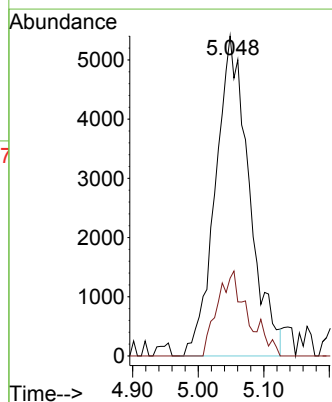
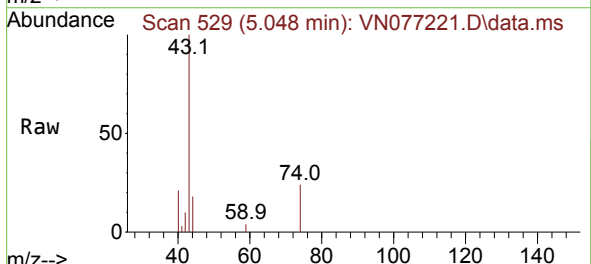
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

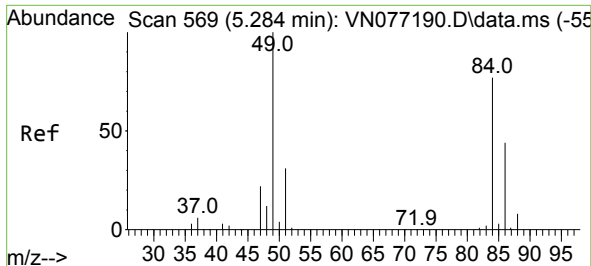
Tgt Ion: 43 Resp: 107964
Ion Ratio Lower Upper
43 100
58 34.9 28.2 42.2



#18
Methyl Acetate
Concen: 2.156 ug/l
RT: 5.048 min Scan# 529
Delta R.T. 0.011 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 43 Resp: 19274
Ion Ratio Lower Upper
43 100
74 21.3 25.9 38.9#

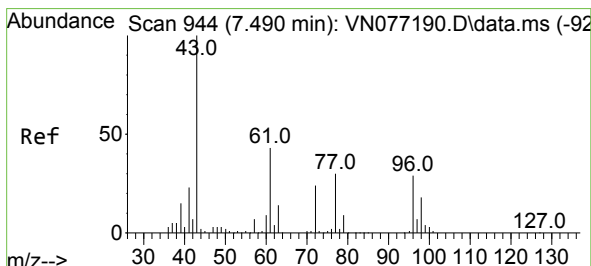
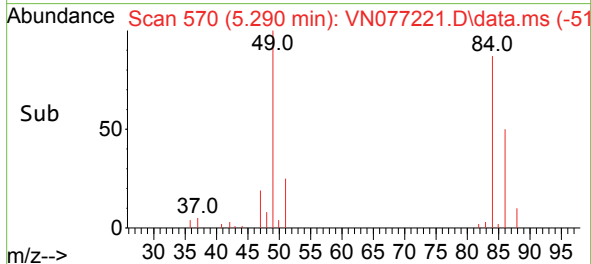
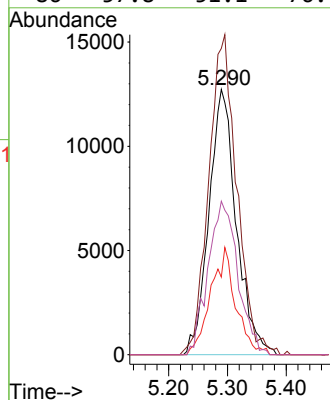
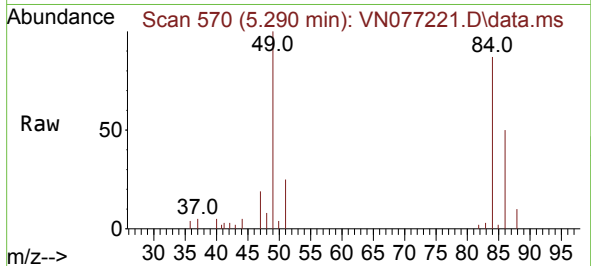




#20
Methylene Chloride
Concen: 8.278 ug/l
RT: 5.290 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

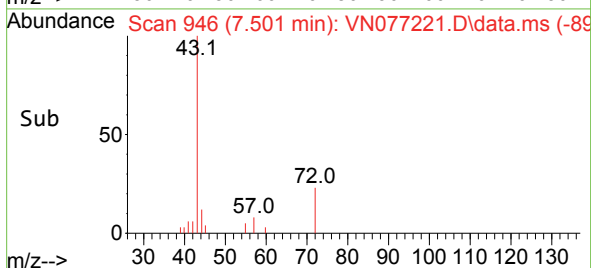
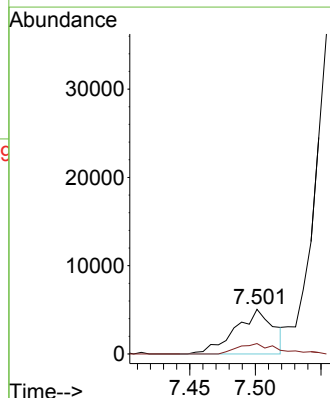
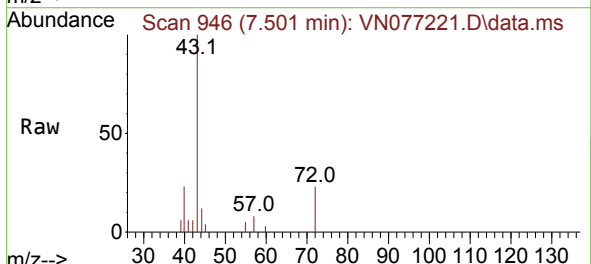
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

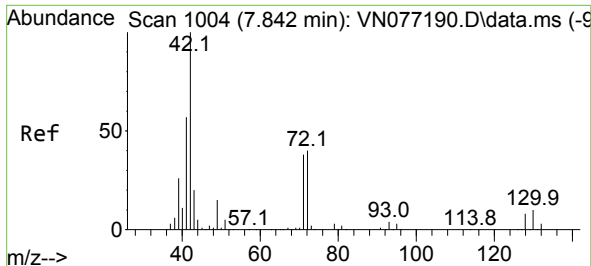
Tgt Ion: 84 Resp: 41187
Ion Ratio Lower Upper
84 100
49 115.5 76.6 114.8#
51 29.3 25.4 38.2
86 57.8 51.1 76.7



#25
2-Butanone
Concen: 2.950 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.011 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 43 Resp: 10306
Ion Ratio Lower Upper
43 100
72 23.2 28.8 43.2#





#29

Tetrahydrofuran

Concen: 0.422 ug/l

RT: 7.848 min Scan# 1005

Delta R.T. 0.006 min

Lab File: VN077221.D

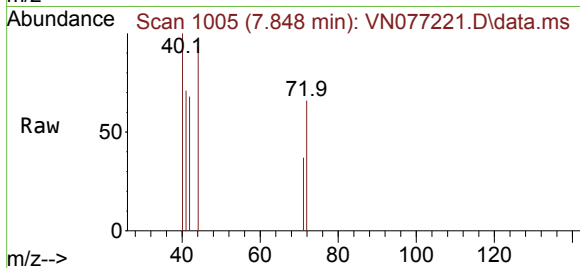
Acq: 27 Mar 2023 23:30

Instrument :

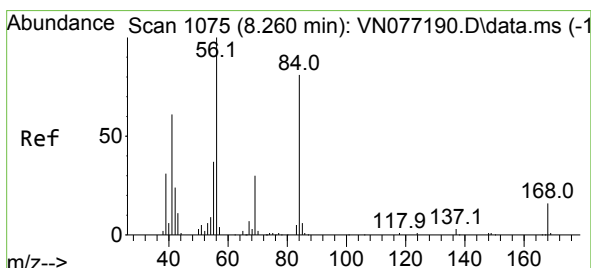
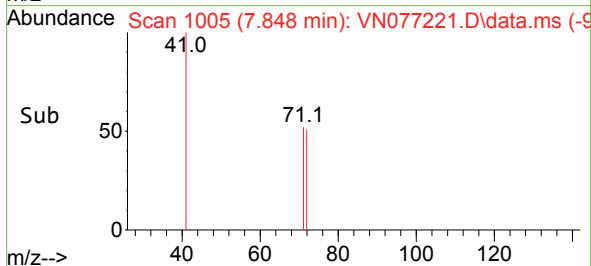
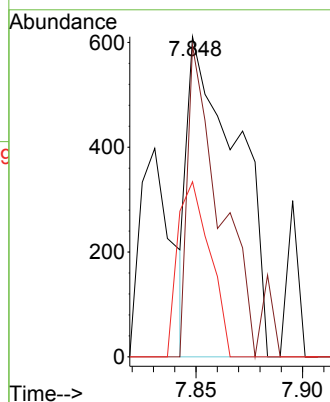
MSVOA_N

ClientSampleId :

152140-TCLP-E-032223



Tgt Ion:	42	Resp:	977
Ion	Ratio	Lower	Upper
42	100		
72	69.7	48.6	73.0
71	36.0	45.1	67.7#



#31

Cyclohexane

Concen: 1.262 ug/l

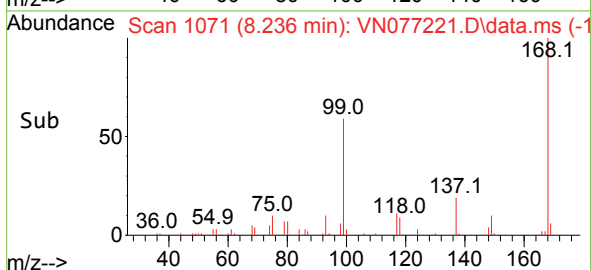
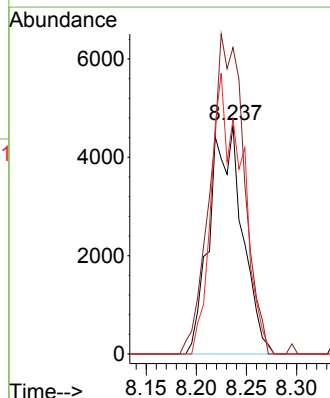
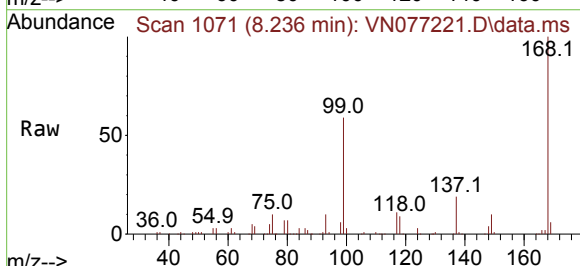
RT: 8.236 min Scan# 1071

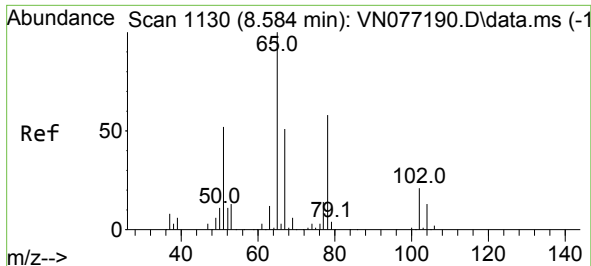
Delta R.T. -0.024 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

Tgt Ion:	56	Resp:	10532
Ion	Ratio	Lower	Upper
56	100		
69	134.0	27.0	40.6#
84	102.6	82.9	124.3





#33

1,2-Dichloroethane-d4

Concen: 49.789 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

Instrument :

MSVOA_N

ClientSampleId :

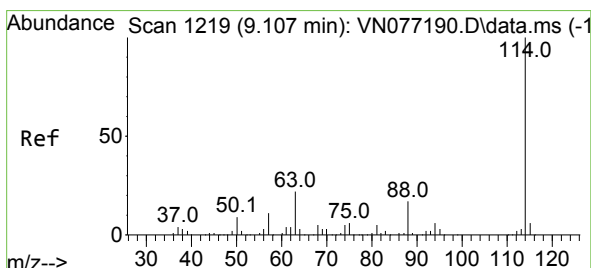
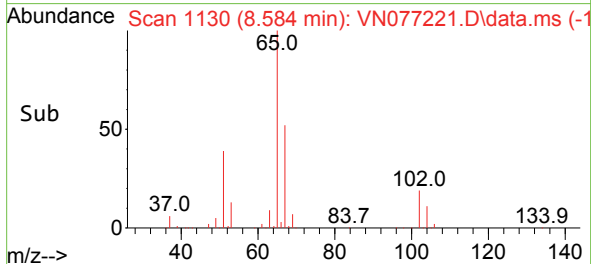
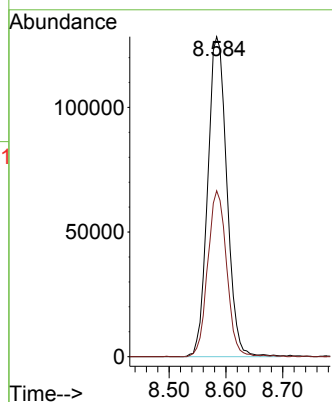
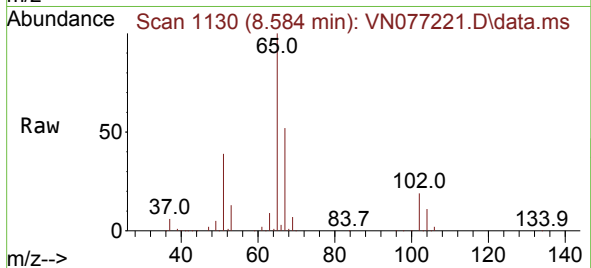
152140-TCLP-E-032223

Tgt Ion: 65 Resp: 299177

Ion Ratio Lower Upper

65 100

67 51.4 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

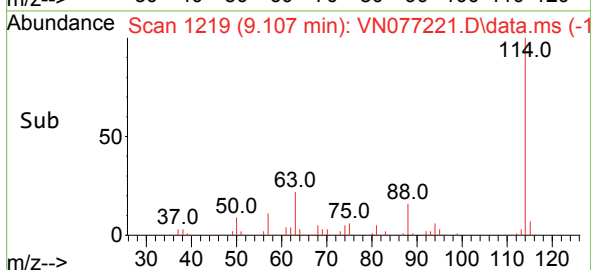
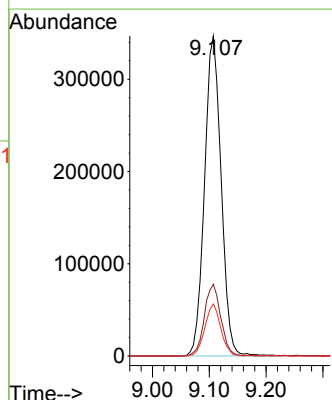
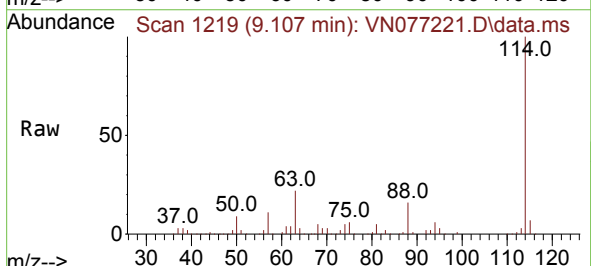
Tgt Ion: 114 Resp: 703586

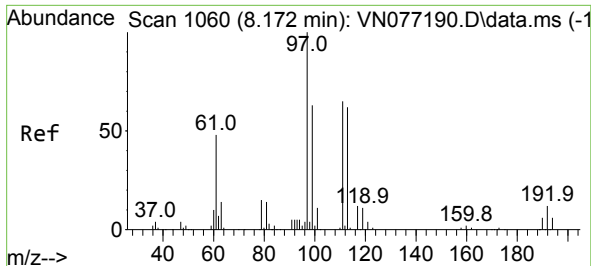
Ion Ratio Lower Upper

114 100

63 22.4 0.0 36.6

88 16.2 0.0 28.6





#35

Dibromofluoromethane

Concen: 46.319 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-E-032223

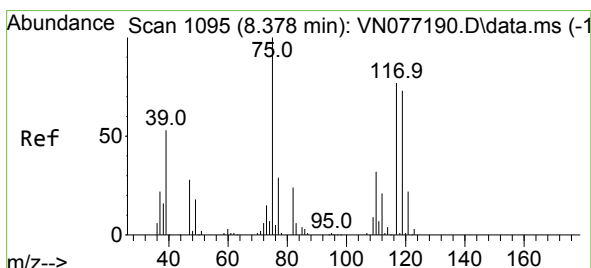
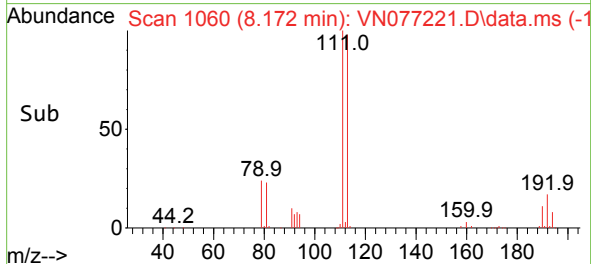
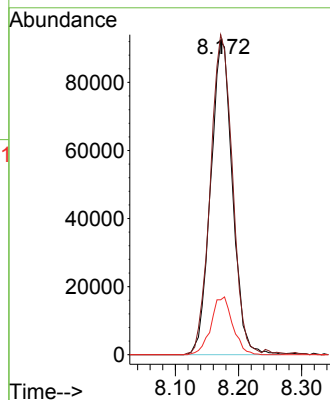
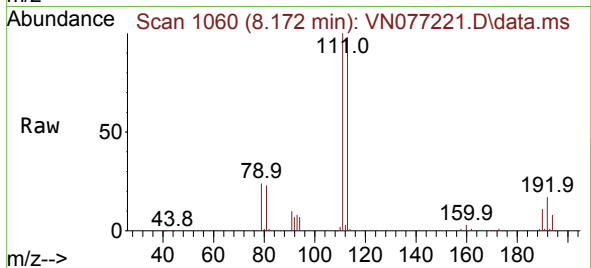
Tgt Ion:113 Resp: 221137

Ion Ratio Lower Upper

113 100

111 103.4 81.8 122.8

192 18.3 13.9 20.9



#36

1,1-Dichloropropene

Concen: 5.295 ug/l

RT: 8.236 min Scan# 1071

Delta R.T. -0.142 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

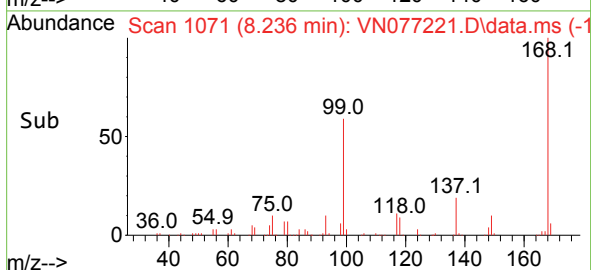
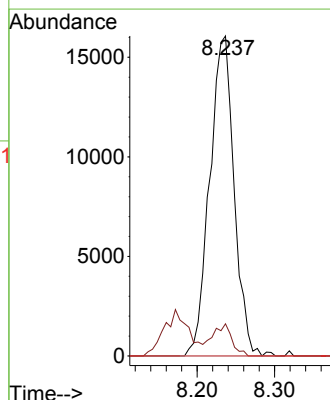
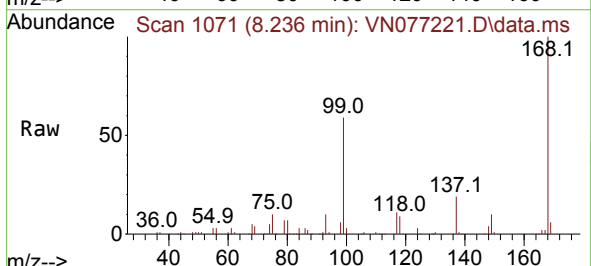
Tgt Ion: 75 Resp: 35180

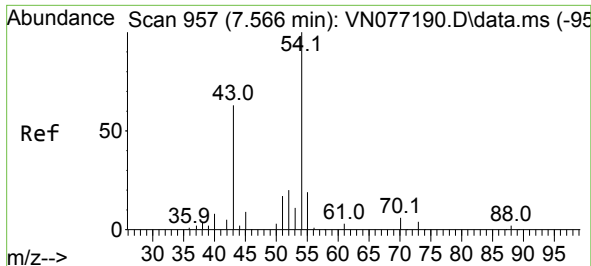
Ion Ratio Lower Upper

75 100

110 8.0 18.9 56.9#

77 0.0 24.9 37.3#

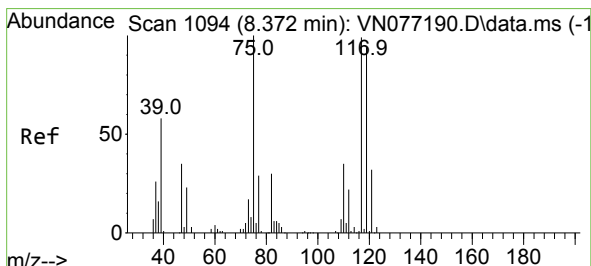
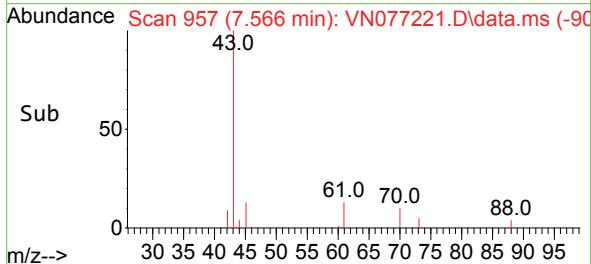
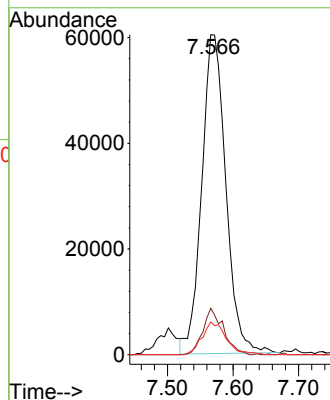
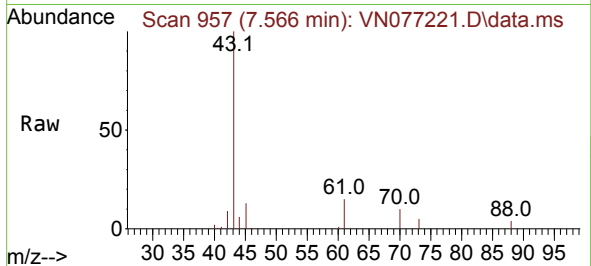




#37
Ethyl Acetate
Concen: 20.835 ug/l
RT: 7.566 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

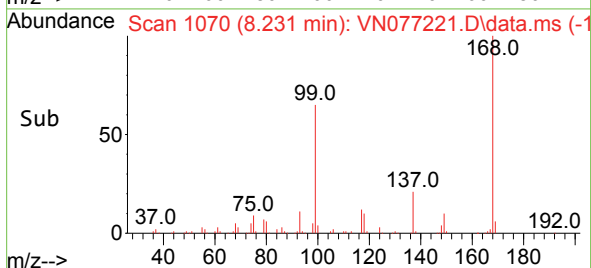
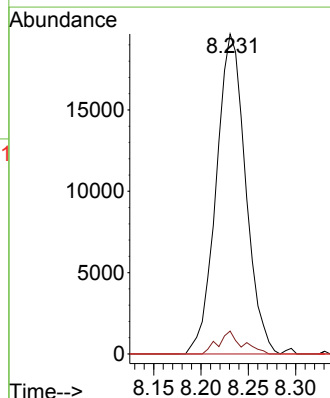
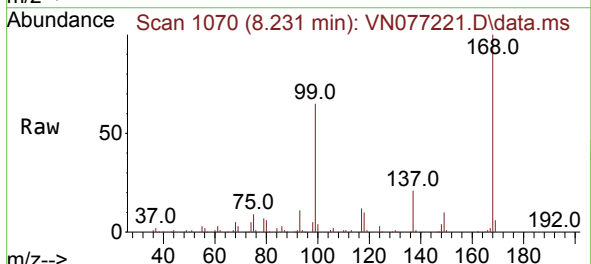
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

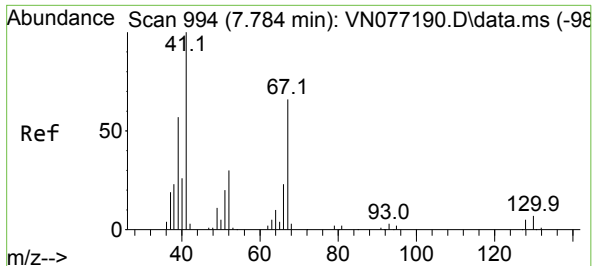
Tgt Ion: 43 Resp: 154310
Ion Ratio Lower Upper
43 100
61 12.4 13.5 20.3#
70 10.2 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 6.298 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.141 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 117 Resp: 42433
Ion Ratio Lower Upper
117 100
119 7.2 76.9 115.3#
121 0.0 23.2 34.8#

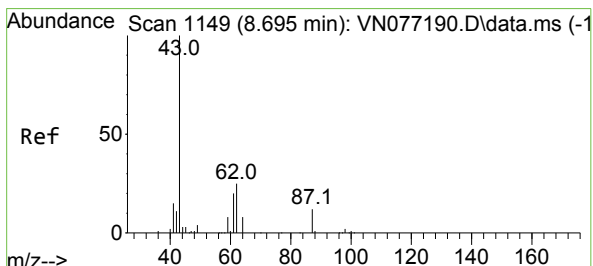
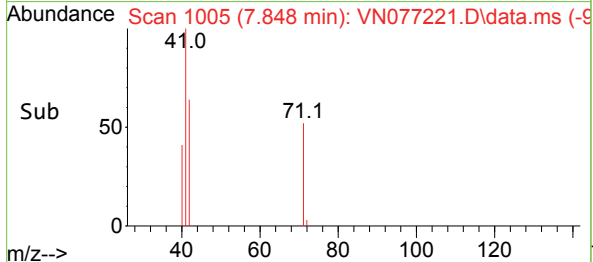
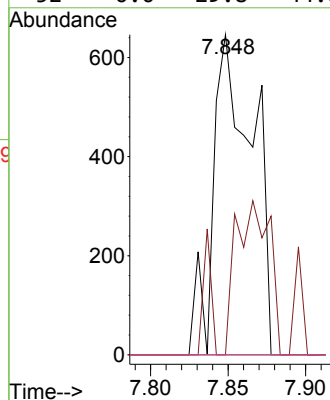
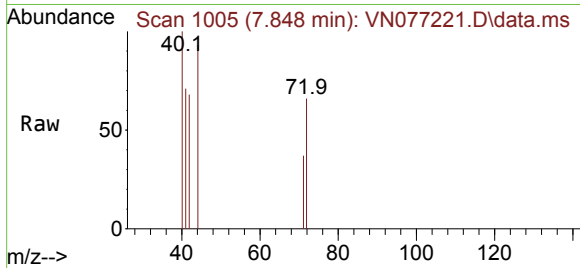




#41
Methacrylonitrile
Concen: 0.282 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.064 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

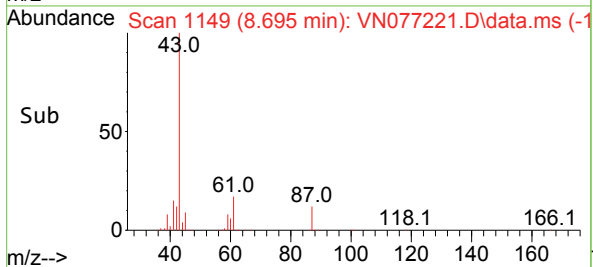
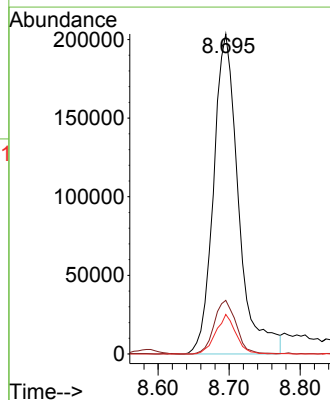
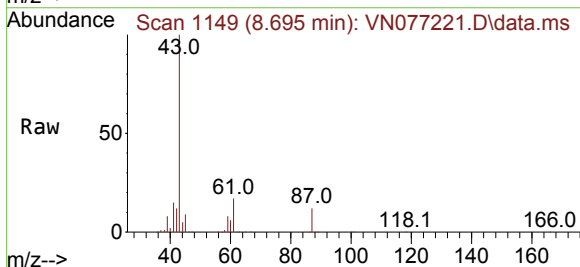
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

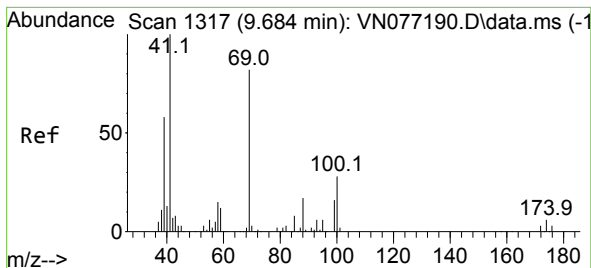
Tgt Ion: 41 Resp: 1141
Ion Ratio Lower Upper
41 100
39 7.9 43.4 65.0#
67 0.0 78.6 118.0#
52 0.0 29.8 44.8#



#43
Isopropyl Acetate
Concen: 41.625 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 43 Resp: 497364
Ion Ratio Lower Upper
43 100
61 14.8 26.2 39.2#
87 9.9 14.8 22.2#





#48

Methyl methacrylate

Concen: 63.706 ug/l

RT: 9.748 min Scan# 1317

Delta R.T. 0.064 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-E-032223

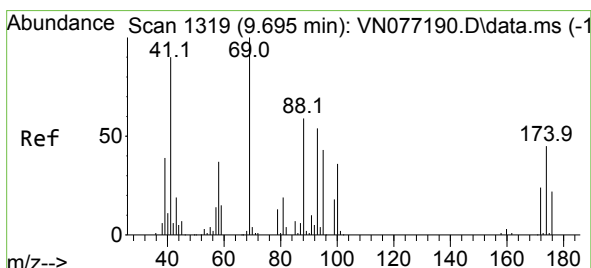
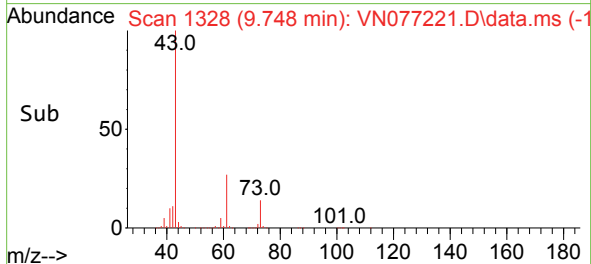
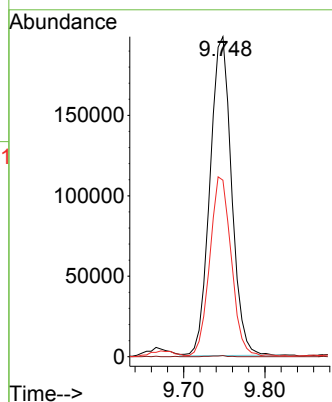
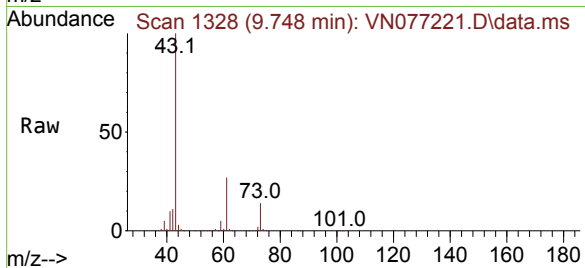
Tgt Ion: 41 Resp: 366564

Ion Ratio Lower Upper

41 100

69 0.2 92.6 139.0#

39 56.5 51.4 77.0



#49

1,4-Dioxane

Concen: 0.968 ug/l

RT: 9.689 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

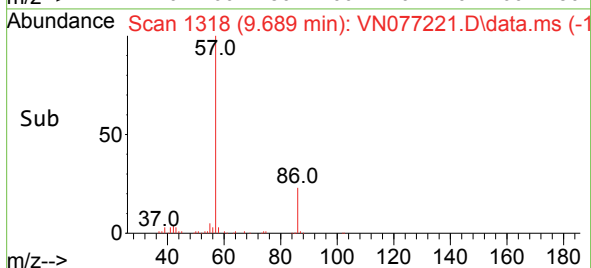
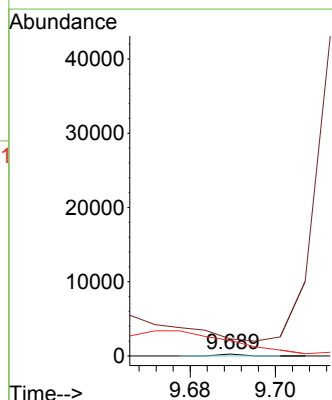
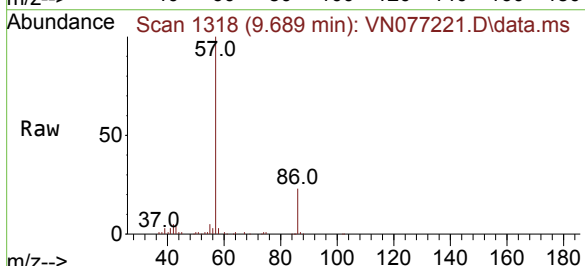
Tgt Ion: 88 Resp: 95

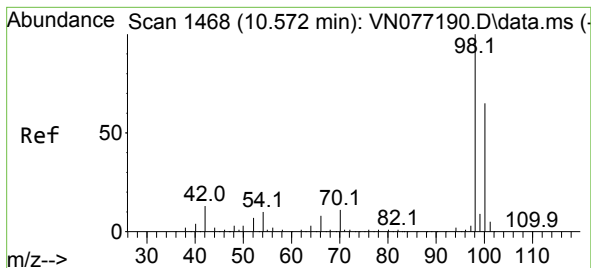
Ion Ratio Lower Upper

88 100

43 0.0 15.3 22.9#

58 7954.7 47.6 71.4#





#50

Toluene-d8

Concen: 50.317 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

Instrument :

MSVOA_N

ClientSampleId :

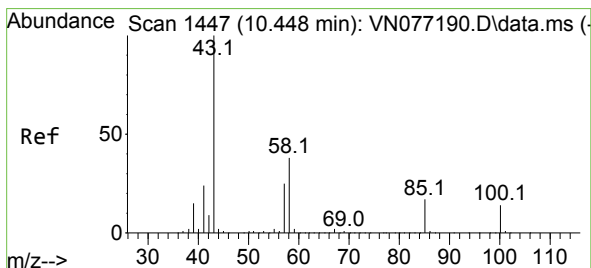
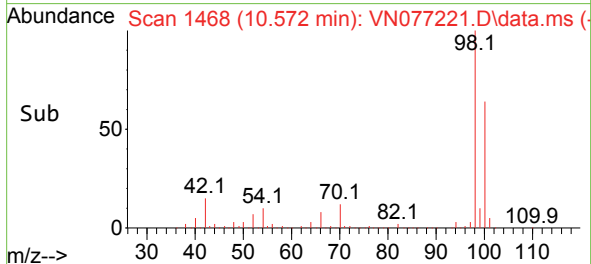
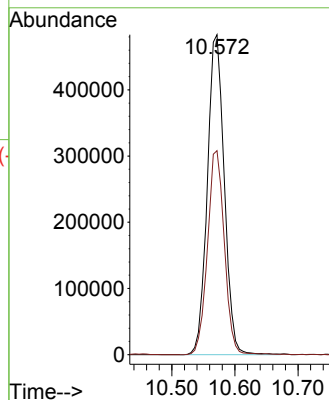
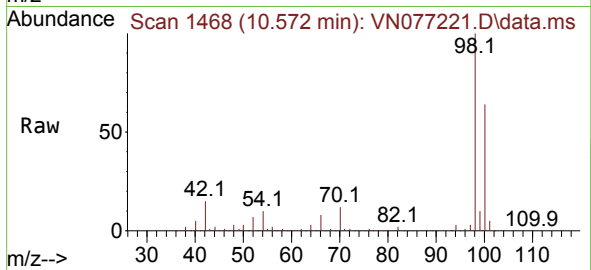
152140-TCLP-E-032223

Tgt Ion: 98 Resp: 900115

Ion Ratio Lower Upper

98 100

100 63.5 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 2.225 ug/l

RT: 10.448 min Scan# 1447

Delta R.T. 0.000 min

Lab File: VN077221.D

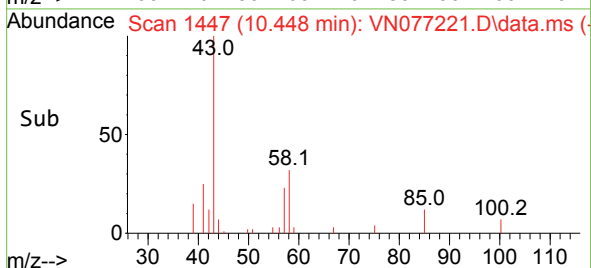
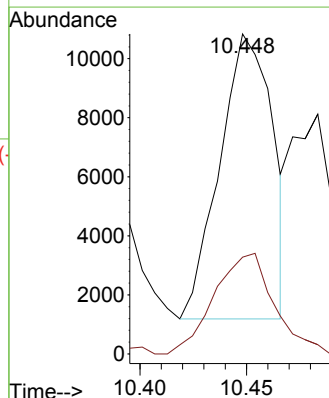
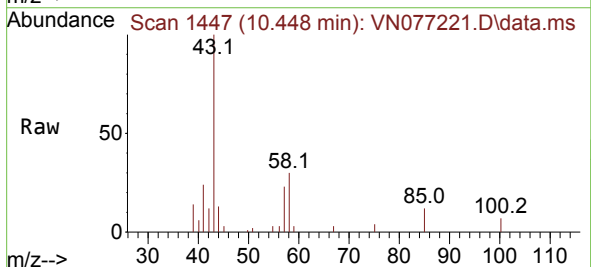
Acq: 27 Mar 2023 23:30

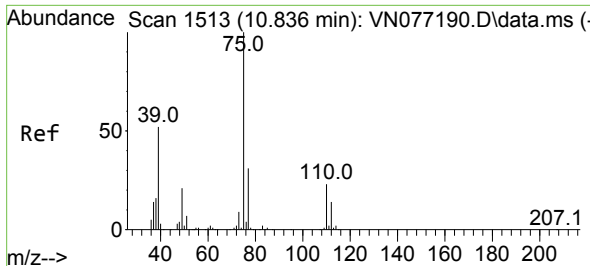
Tgt Ion: 43 Resp: 16726

Ion Ratio Lower Upper

43 100

58 39.8 37.4 56.0

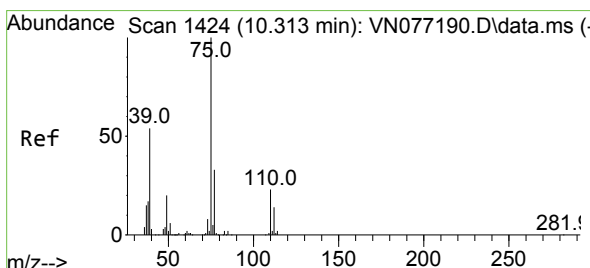
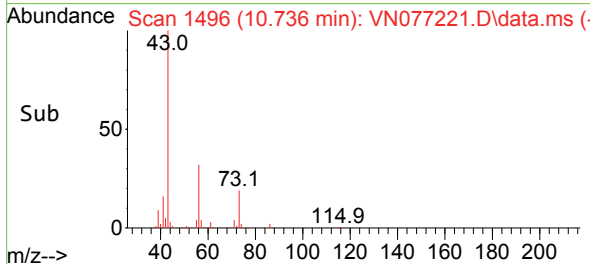
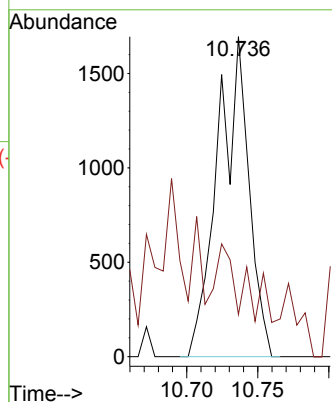
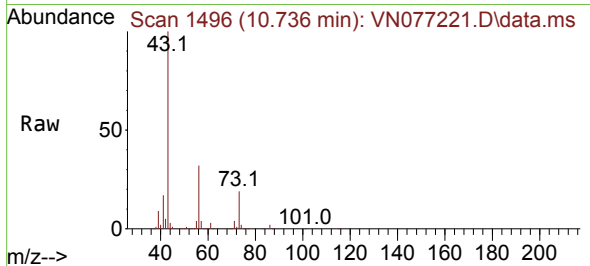




#53
t-1,3-Dichloropropene
Concen: 0.359 ug/l
RT: 10.736 min Scan# 1496
Delta R.T. -0.100 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

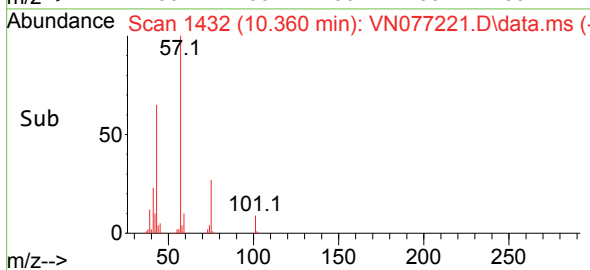
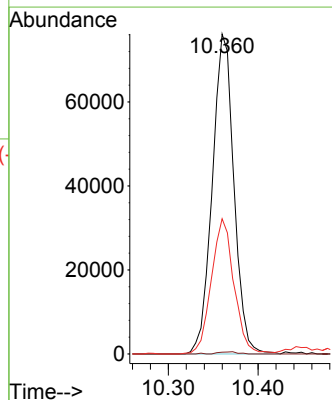
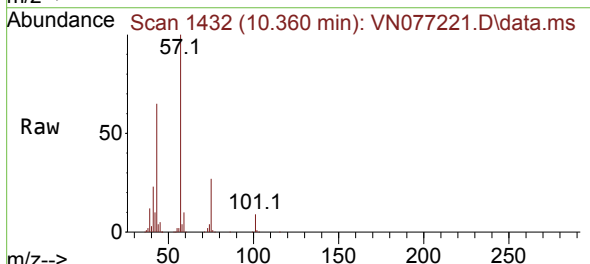
Instrument : MSVOA_N
ClientSampleId : 152140-TCLP-E-032223

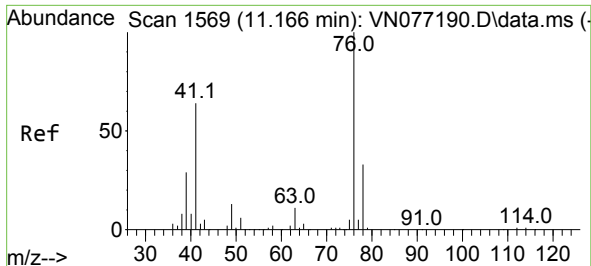
Tgt Ion: 75 Resp: 2566
Ion Ratio Lower Upper
75 100
77 1.4 25.0 37.6#



#54
cis-1,3-Dichloropropene
Concen: 16.296 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 75 Resp: 127405
Ion Ratio Lower Upper
75 100
77 0.5 25.7 38.5#
39 42.2 29.7 44.5





#57

1,3-Dichloropropane

Concen: 1.890 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

Instrument :

MSVOA_N

ClientSampleId :

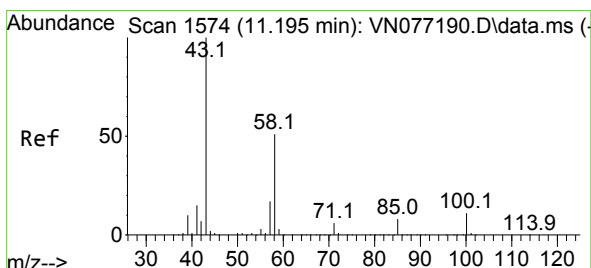
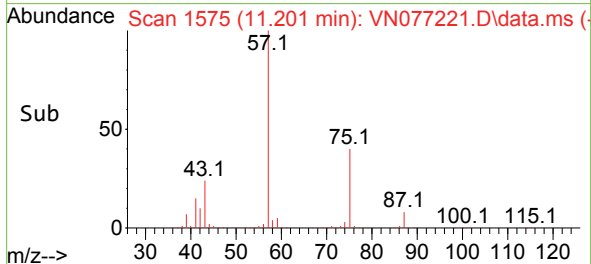
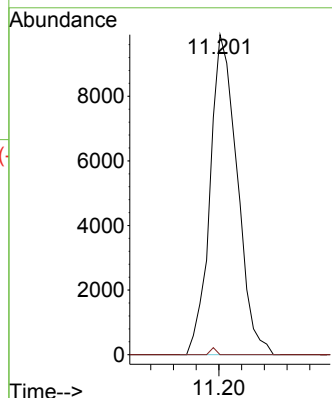
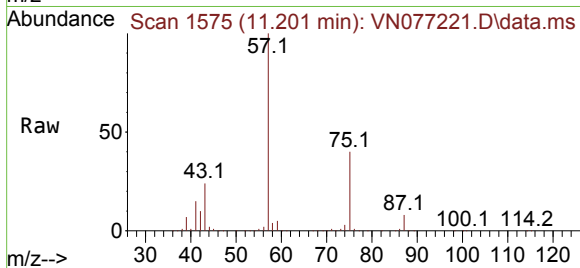
152140-TCLP-E-032223

Tgt Ion: 76 Resp: 16430

Ion Ratio Lower Upper

76 100

78 0.5 26.1 39.1#



#59

2-Hexanone

Concen: 64.310 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077221.D

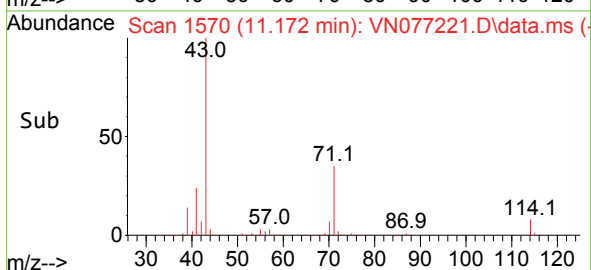
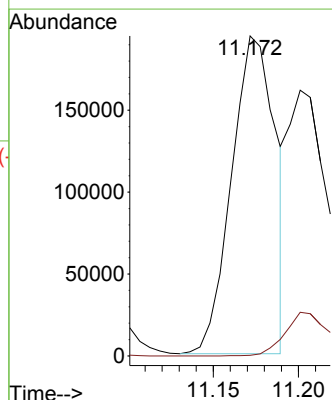
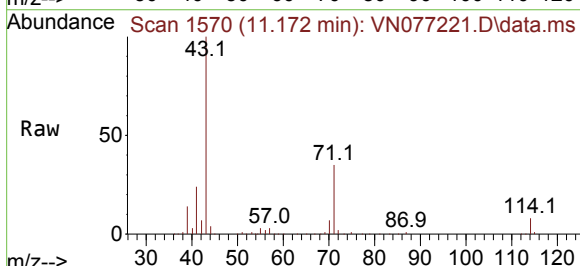
Acq: 27 Mar 2023 23:30

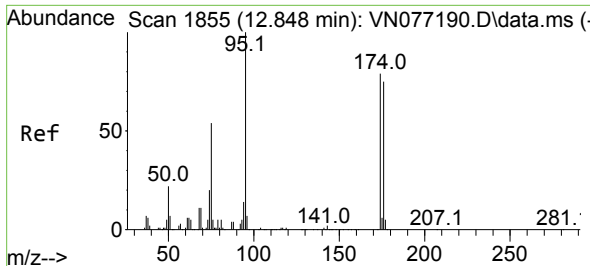
Tgt Ion: 43 Resp: 347466

Ion Ratio Lower Upper

43 100

58 0.0 32.6 98.0#

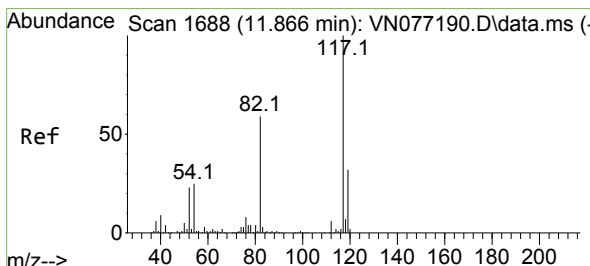
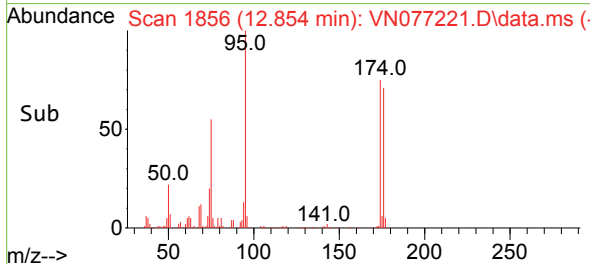
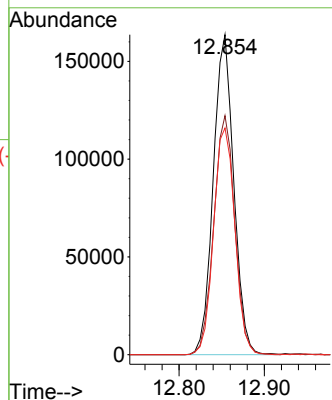
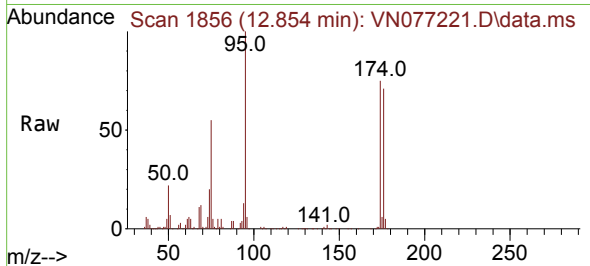




#62
4-Bromofluorobenzene
Concen: 46.550 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

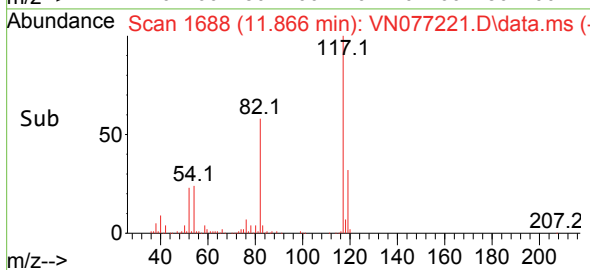
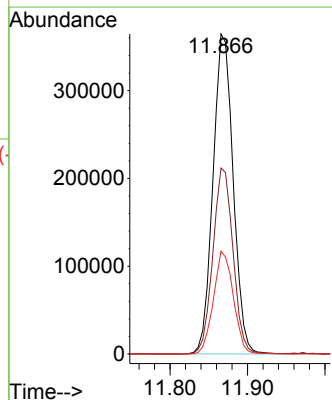
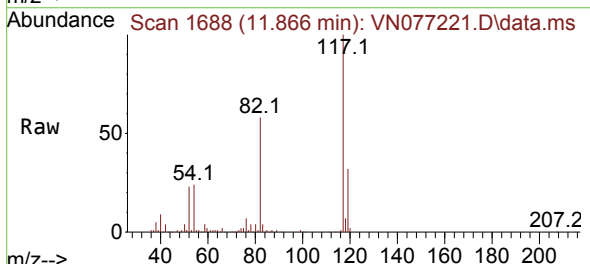
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

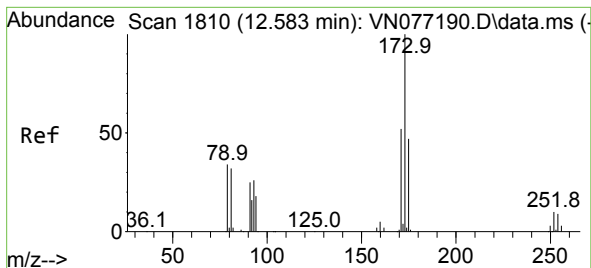
Tgt Ion: 95 Resp: 273298
Ion Ratio Lower Upper
95 100
174 76.7 0.0 162.4
176 73.6 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 117 Resp: 660035
Ion Ratio Lower Upper
117 100
82 58.1 43.5 65.3
119 32.1 25.5 38.3





#71

Bromoform

Concen: 0.864 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. 0.265 min

Lab File: VN077221.D

Acq: 27 Mar 2023 23:30

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-E-032223

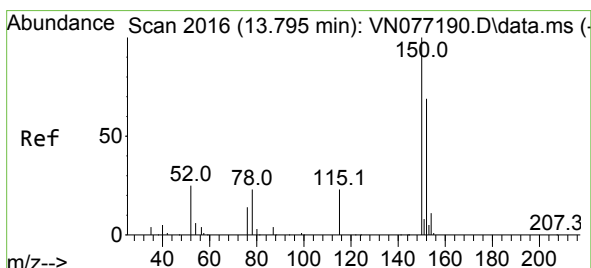
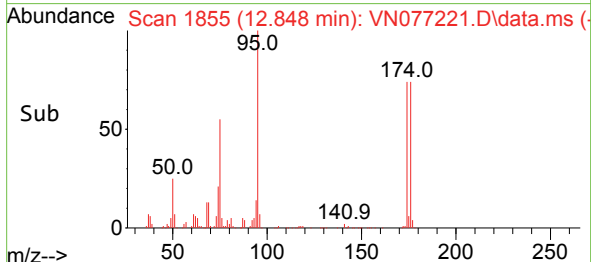
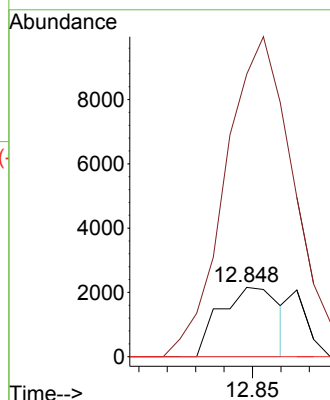
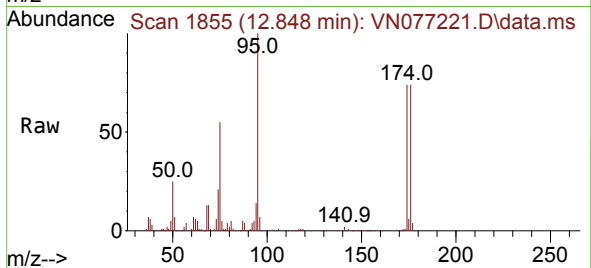
Tgt Ion:173 Resp: 3111

Ion Ratio Lower Upper

173 100

175 437.4 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: VN077221.D

Acq: 27 Mar 2023 23:30

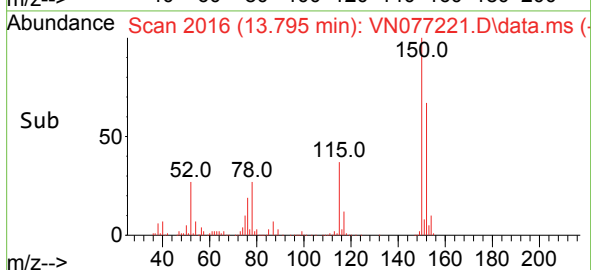
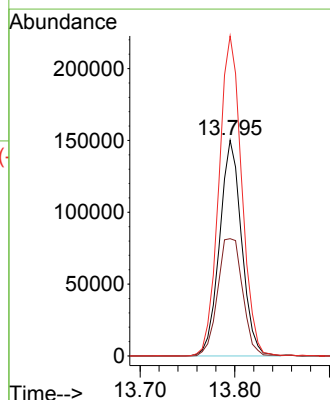
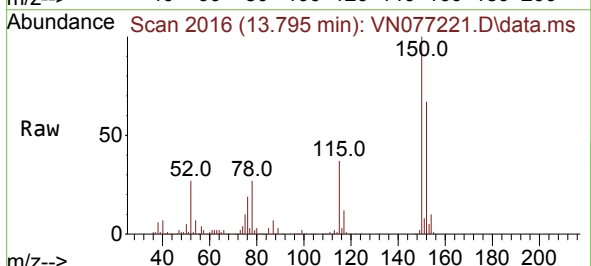
Tgt Ion:152 Resp: 243136

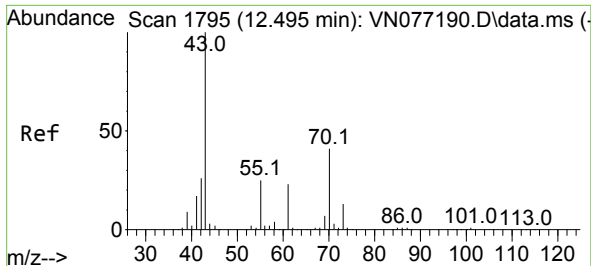
Ion Ratio Lower Upper

152 100

115 61.6 30.3 90.9

150 153.7 0.0 353.6

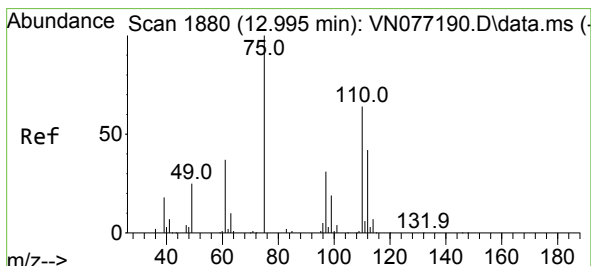
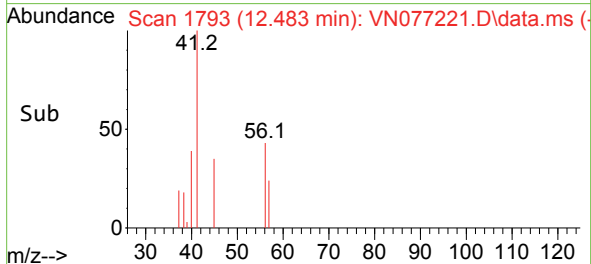
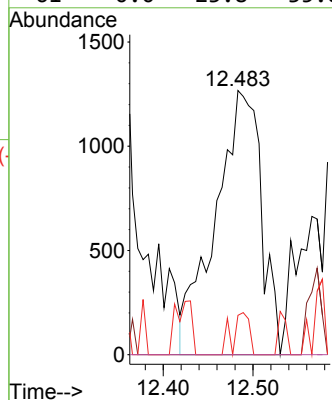
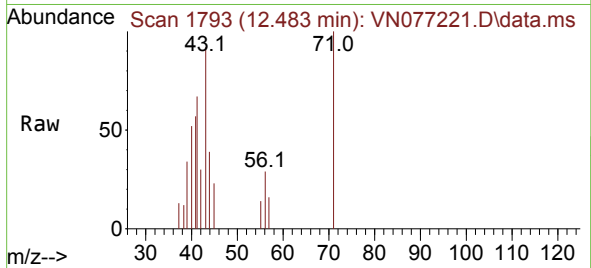




#74
N-amy1 acetate
Concen: 0.540 ug/l
RT: 12.483 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

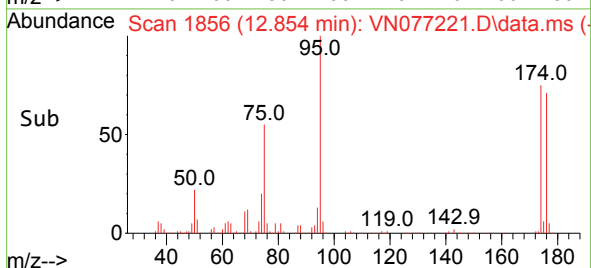
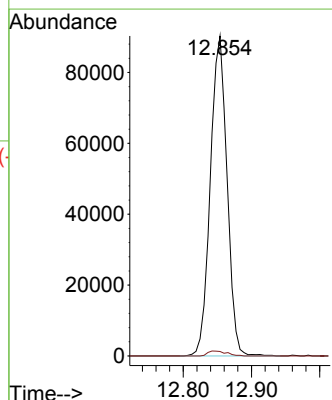
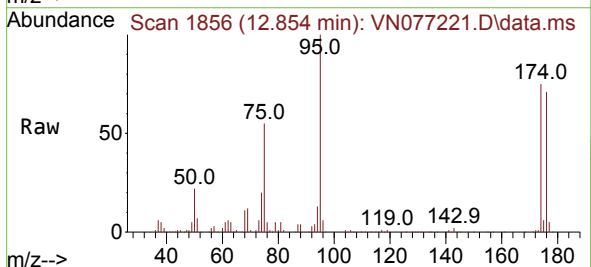
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

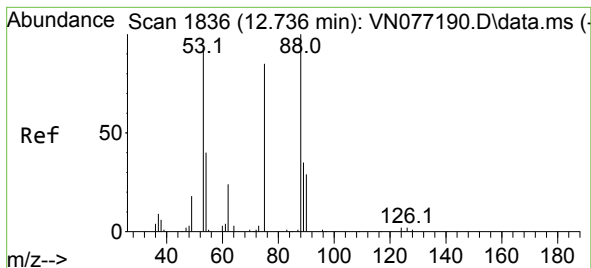
Tgt Ion: 43 Resp: 4502
Ion Ratio Lower Upper
43 100
70 0.0 46.8 70.2#
55 5.8 23.4 35.2#
61 0.0 23.8 35.8#



#76
1,2,3-Trichloropropane
Concen: 31.242 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion: 75 Resp: 154091
Ion Ratio Lower Upper
75 100
77 1.8 93.8 281.4#

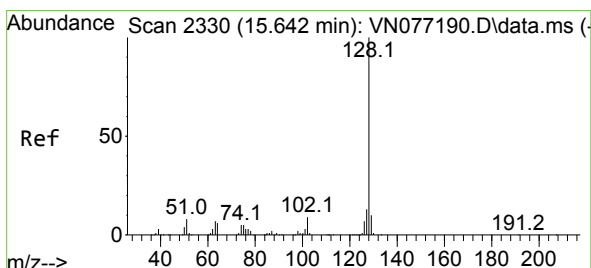
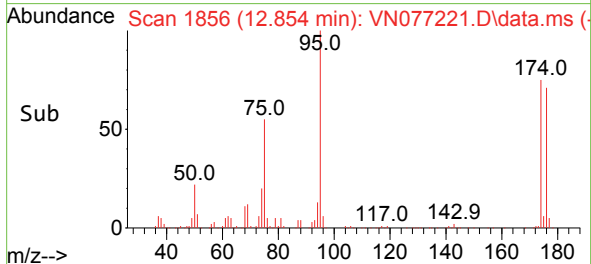
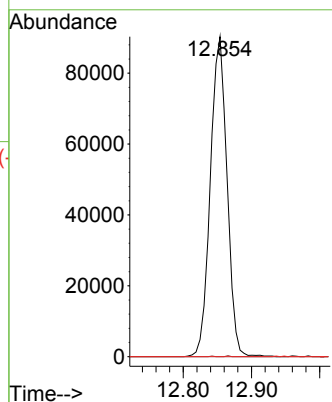
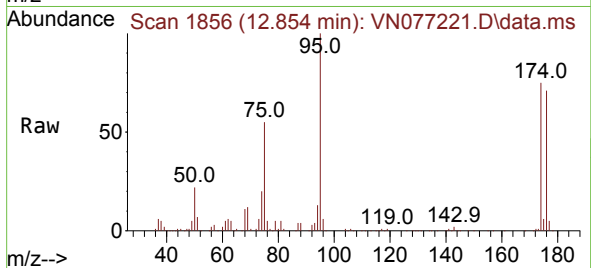




#81
trans-1,4-Dichloro-2-butene
Concen: 90.043 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-E-032223

Tgt Ion: 75 Resp: 154091
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.0#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 5.930 ug/l
RT: 15.654 min Scan# 2332
Delta R.T. 0.012 min
Lab File: VN077221.D
Acq: 27 Mar 2023 23:30

Tgt Ion:128 Resp: 211
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.9 13.3#

