

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077222.D
 Acq On : 27 Mar 2023 23:54
 Operator : JC\MD
 Sample : 02081-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

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

Quant Time: Mar 28 07:48:15 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)

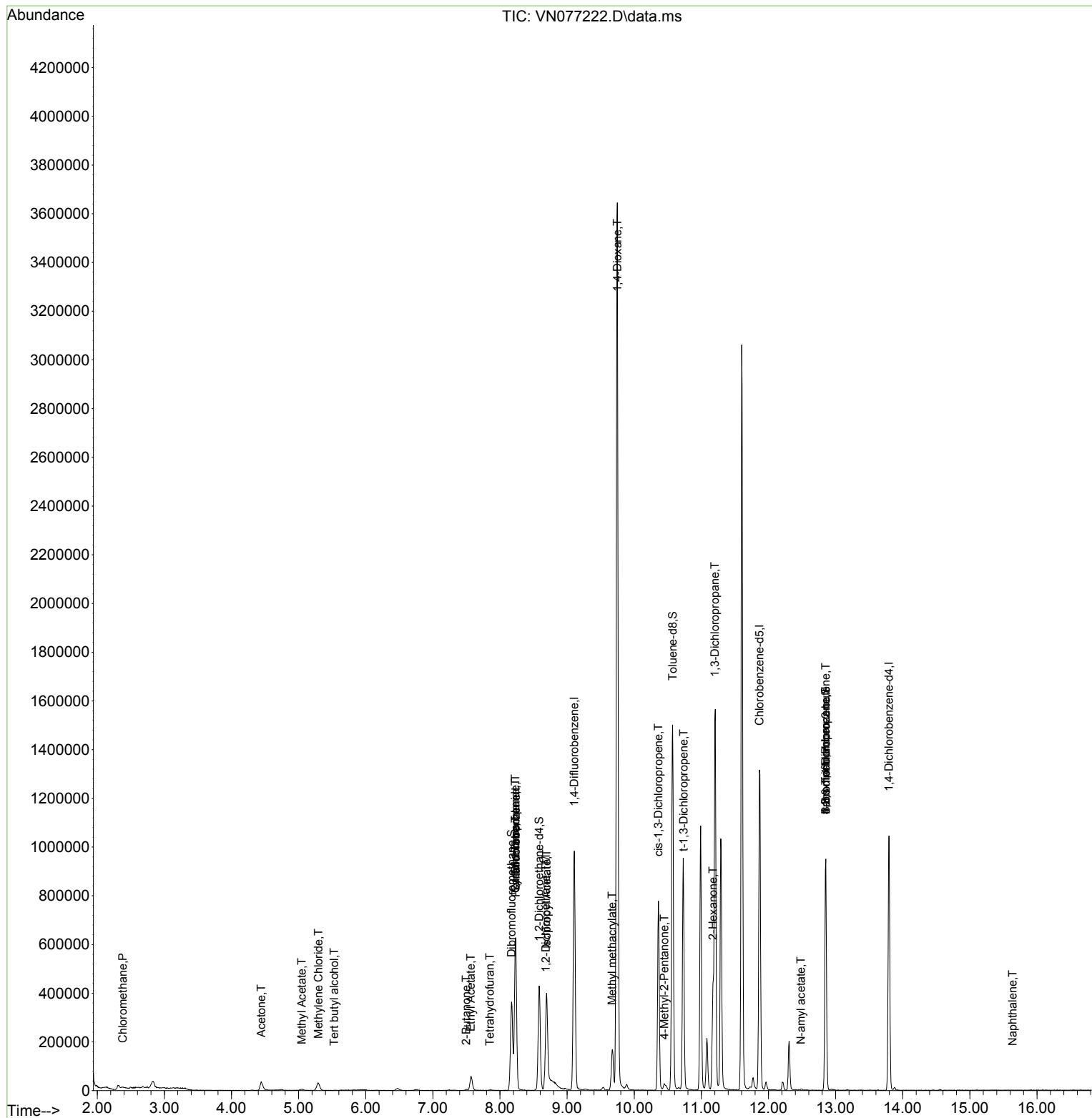
Internal Standards						
1) Pentafluorobenzene	8.236	168	442520	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	813406	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	735962	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	268188	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	344833	49.839	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.680%		
35) Dibromofluoromethane	8.172	113	259387	46.996	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.000%		
50) Toluene-d8	10.572	98	1011740	48.921	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.840%		
62) 4-Bromofluorobenzene	12.854	95	307666	45.329	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.660%		
Target Compounds						Qvalue
3) Chloromethane	2.378	50	1634	0.252	ug/l #	40
11) Tert butyl alcohol	5.531	59	413	0.438	ug/l #	72
16) Acetone	4.442	43	63992	24.874	ug/l	92
18) Methyl Acetate	5.048	43	7194	0.699	ug/l	98
20) Methylene Chloride	5.295	84	23732	4.143	ug/l #	76
25) 2-Butanone	7.495	43	6393	1.589	ug/l #	63
29) Tetrahydrofuran	7.848	42	2163	0.812	ug/l #	51
31) Cyclohexane	8.230	56	12766	1.328	ug/l #	49
36) 1,1-Dichloropropene	8.230	75	41364	5.385	ug/l #	48
37) Ethyl Acetate	7.566	43	89121	10.409	ug/l #	91
38) Carbon Tetrachloride	8.230	117	50194	6.445	ug/l #	19
42) 1,2-Dichloroethane	8.683	62	2458	0.277	ug/l #	71
43) Isopropyl Acetate	8.695	43	559128	40.477	ug/l #	69
48) Methyl methacrylate	9.672	41	11951	1.797	ug/l #	31
49) 1,4-Dioxane	9.748	88	569	5.018	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	29595	3.405	ug/l #	65
53) t-1,3-Dichloropropene	10.736	75	2384	0.289	ug/l #	43
54) cis-1,3-Dichloropropene	10.360	75	125224	13.855	ug/l #	69
57) 1,3-Dichloropropane	11.201	76	16017	1.594	ug/l #	43
59) 2-Hexanone	11.171	43	345566	55.323	ug/l #	17
71) Bromoform	12.854	173	3334	0.831	ug/l #	1
74) N-amyl acetate	12.483	43	4271	0.465	ug/l #	33
76) 1,2,3-Trichloropropane	12.854	75	169489	31.154	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	169489	89.789	ug/l #	15
95) Naphthalene	15.636	128	394	5.940	ug/l #	69

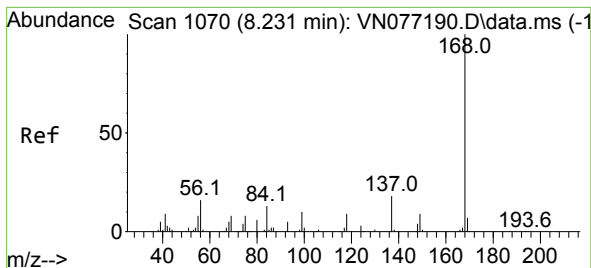
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
Data File : VN077222.D
Acq On : 27 Mar 2023 23:54
Operator : JC\MD
Sample : 02081-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 28 Sample Multiplier: 1

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

Quant Time: Mar 28 07:48:15 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN077222.D

Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

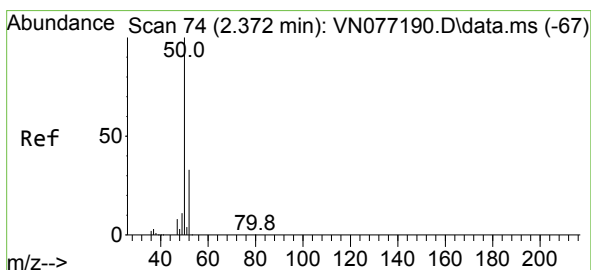
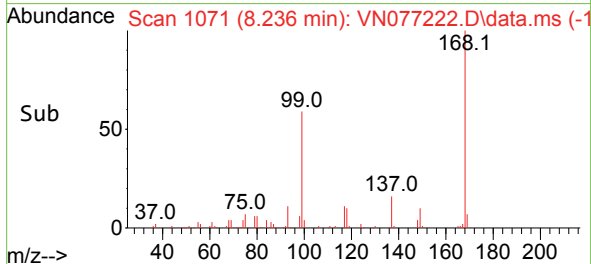
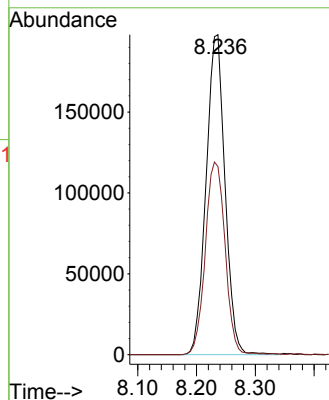
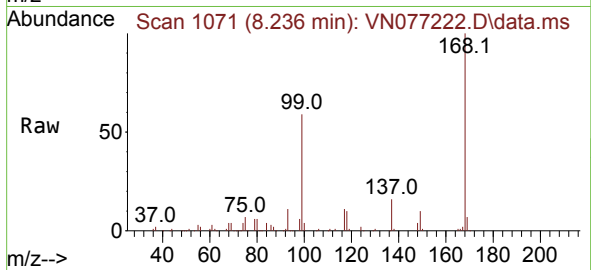
152140-TCLP-F-032223

Tgt Ion:168 Resp: 442520

Ion Ratio Lower Upper

168 100

99 58.8 48.6 73.0



#3

Chloromethane

Concen: 0.252 ug/l

RT: 2.378 min Scan# 75

Delta R.T. 0.006 min

Lab File: VN077222.D

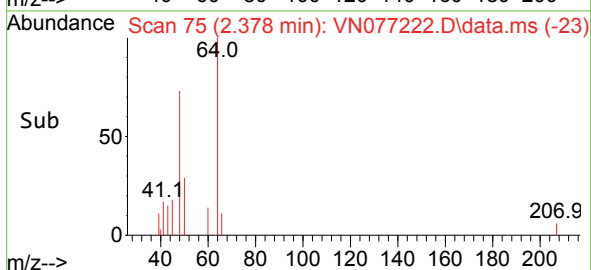
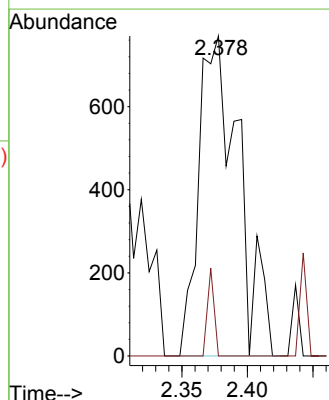
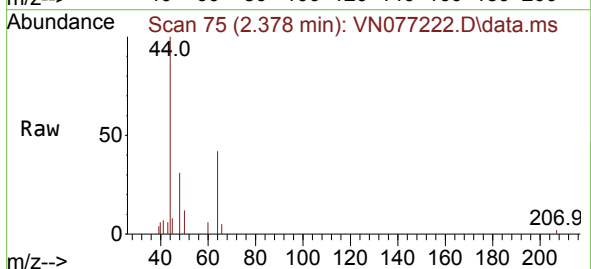
Acq: 27 Mar 2023 23:54

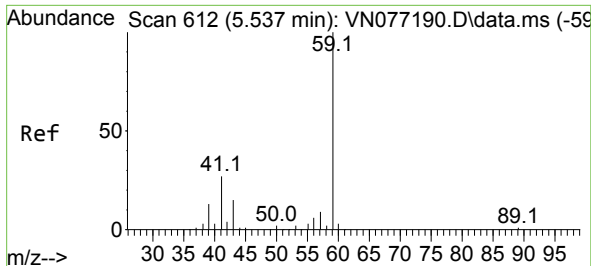
Tgt Ion: 50 Resp: 1634

Ion Ratio Lower Upper

50 100

52 0.0 27.9 41.9#





#11

Tert butyl alcohol

Concen: 0.438 ug/l

RT: 5.531 min Scan# 612

Delta R.T. -0.006 min

Lab File: VN077222.D

Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

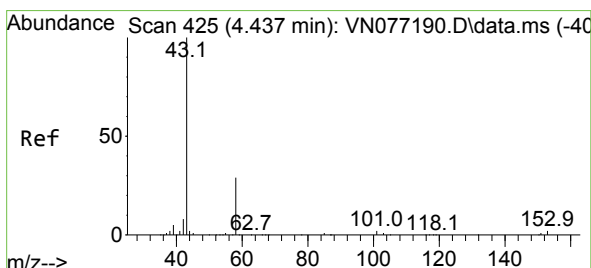
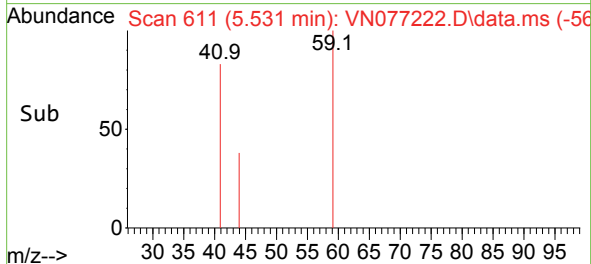
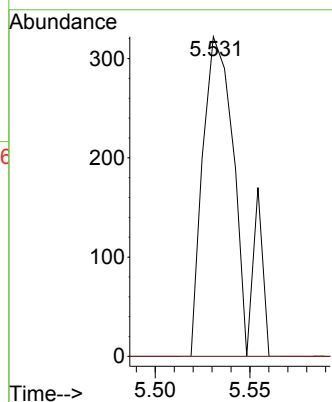
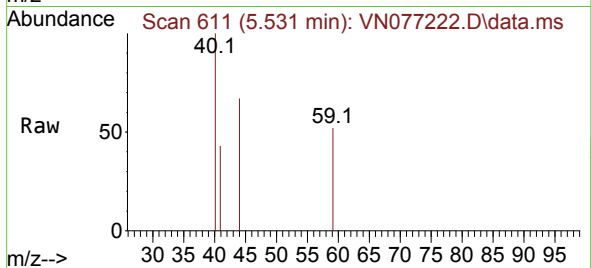
152140-TCLP-F-032223

Tgt Ion: 59 Resp: 413

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#16

Acetone

Concen: 24.874 ug/l

RT: 4.442 min Scan# 426

Delta R.T. 0.005 min

Lab File: VN077222.D

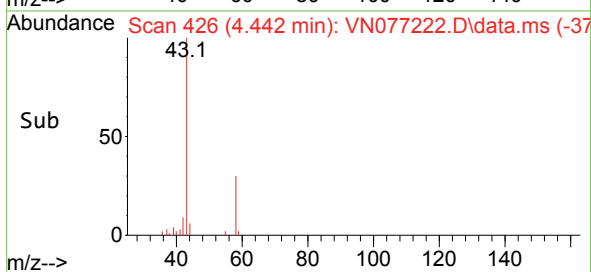
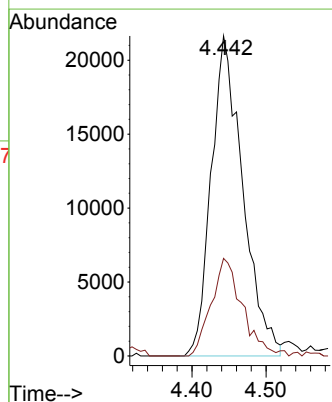
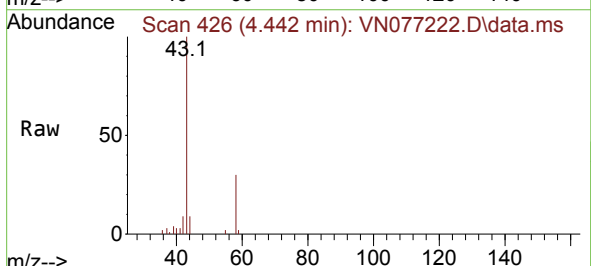
Acq: 27 Mar 2023 23:54

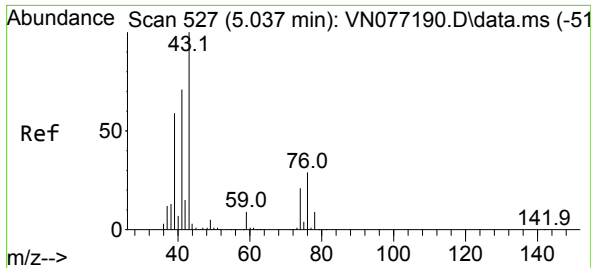
Tgt Ion: 43 Resp: 63992

Ion Ratio Lower Upper

43 100

58 30.5 28.2 42.2

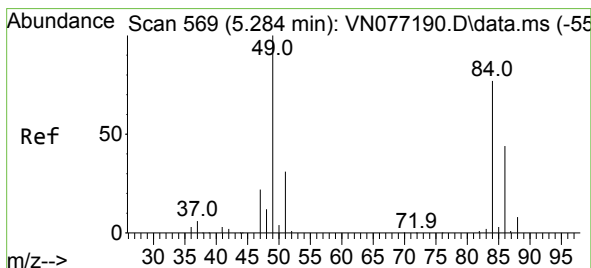
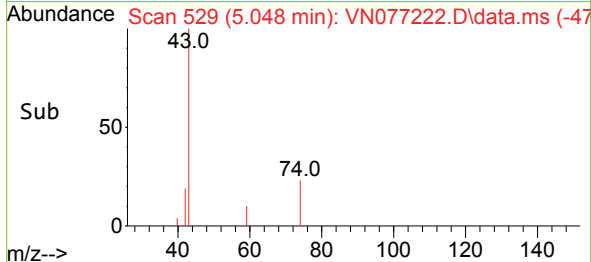
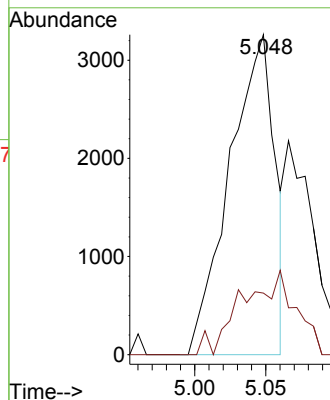
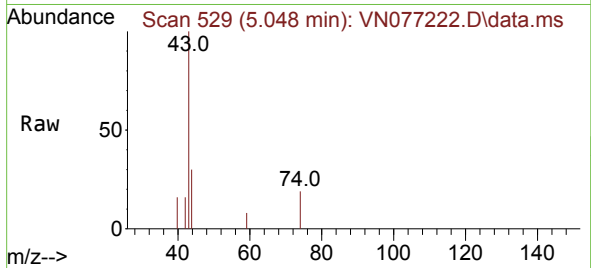




#18
Methyl Acetate
Concen: 0.699 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

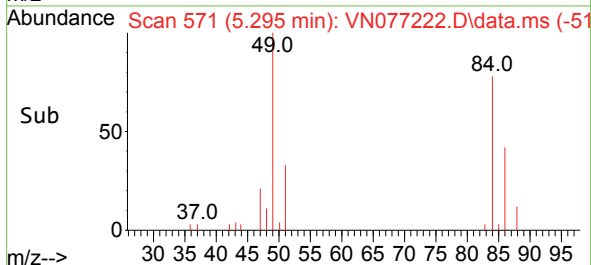
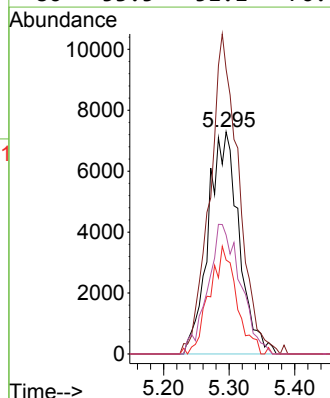
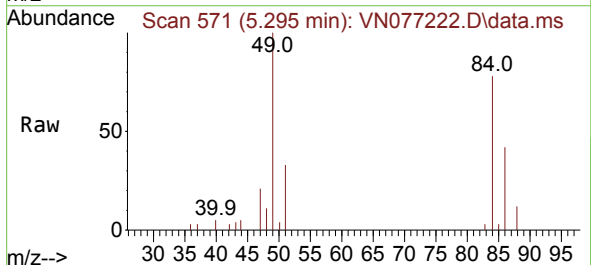
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-F-032223

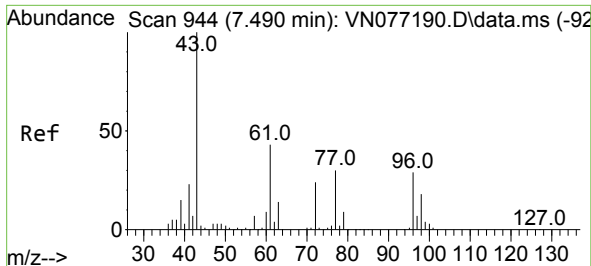
Tgt Ion: 43 Resp: 7194
Ion Ratio Lower Upper
43 100
74 31.0 25.9 38.9



#20
Methylene Chloride
Concen: 4.143 ug/l
RT: 5.295 min Scan# 571
Delta R.T. 0.011 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

Tgt Ion: 84 Resp: 23732
Ion Ratio Lower Upper
84 100
49 128.2 76.6 114.8#
51 42.3 25.4 38.2#
86 53.5 51.1 76.7

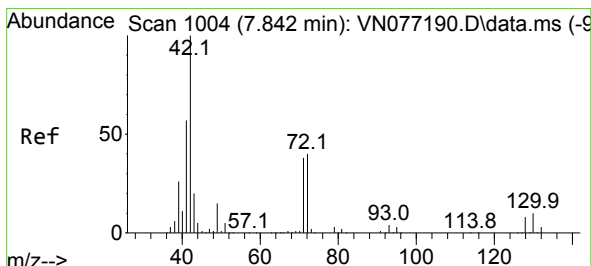
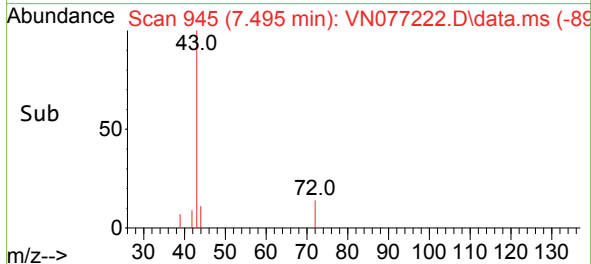
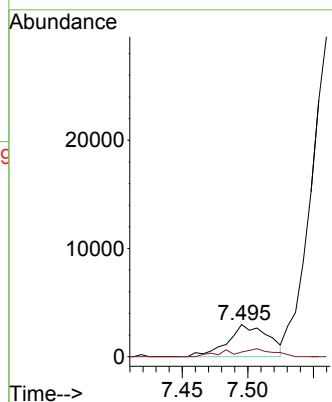
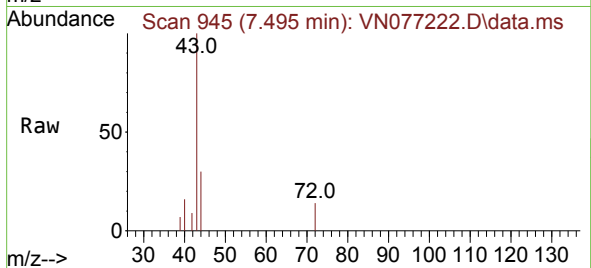




#25
2-Butanone
Concen: 1.589 ug/l
RT: 7.495 min Scan# 944
Delta R.T. 0.005 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

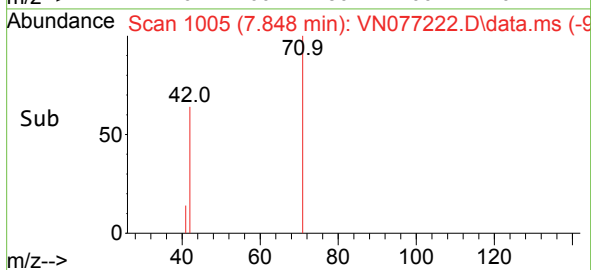
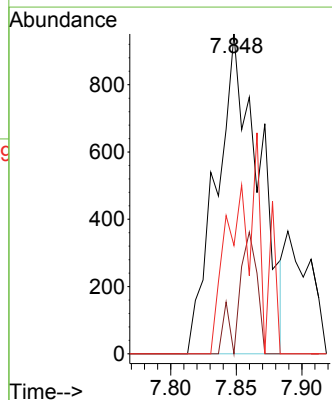
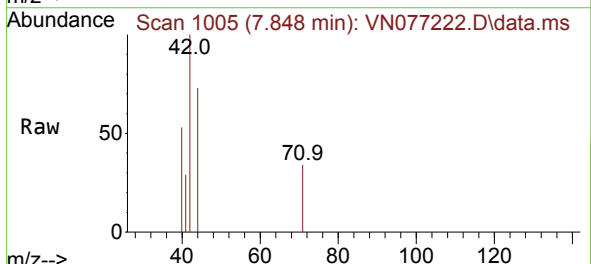
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-F-032223

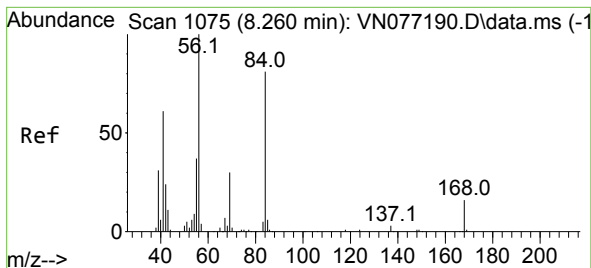
Tgt Ion: 43 Resp: 6393
Ion Ratio Lower Upper
43 100
72 14.4 28.8 43.2#



#29
Tetrahydrofuran
Concen: 0.812 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

Tgt Ion: 42 Resp: 2163
Ion Ratio Lower Upper
42 100
72 16.6 48.6 73.0#
71 27.4 45.1 67.7#





#31

Cyclohexane

Concen: 1.328 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.030 min

Lab File: VN077222.D

Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-F-032223

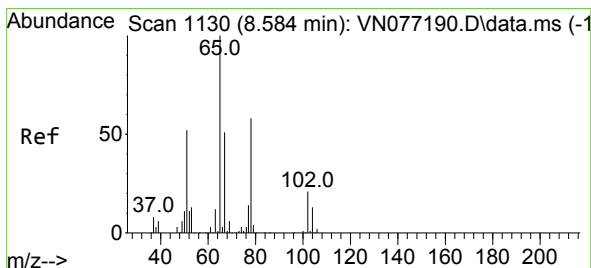
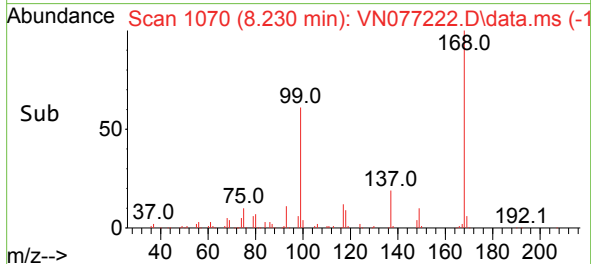
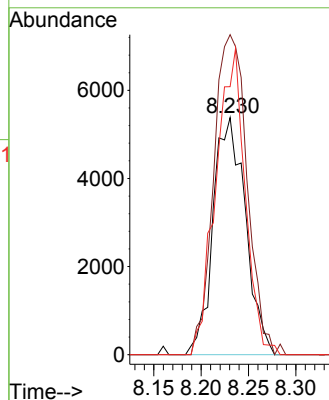
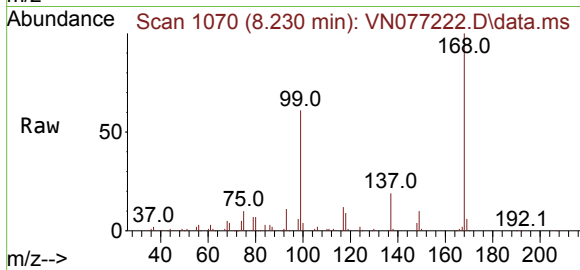
Tgt Ion: 56 Resp: 12766

Ion Ratio Lower Upper

56 100

69 134.9 27.0 40.6#

84 113.0 82.9 124.3



#33

1,2-Dichloroethane-d4

Concen: 49.839 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN077222.D

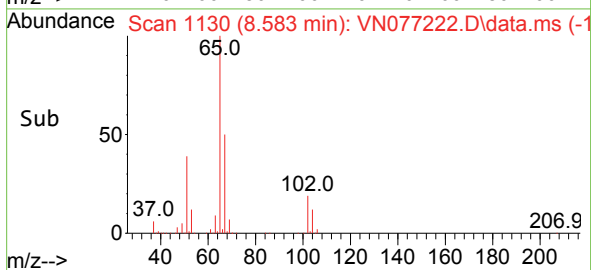
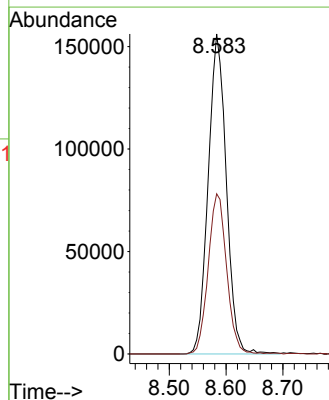
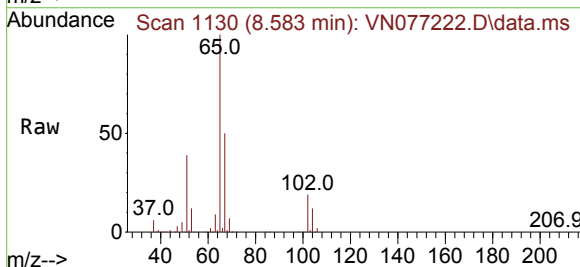
Acq: 27 Mar 2023 23:54

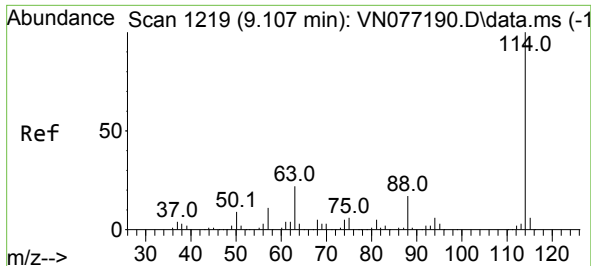
Tgt Ion: 65 Resp: 344833

Ion Ratio Lower Upper

65 100

67 51.0 0.0 107.2

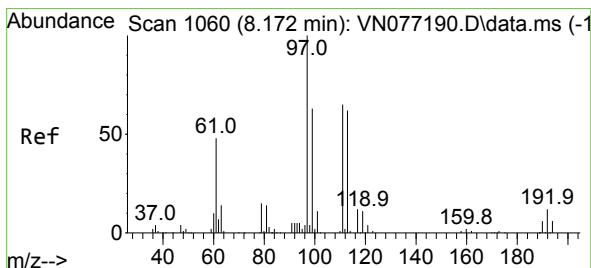
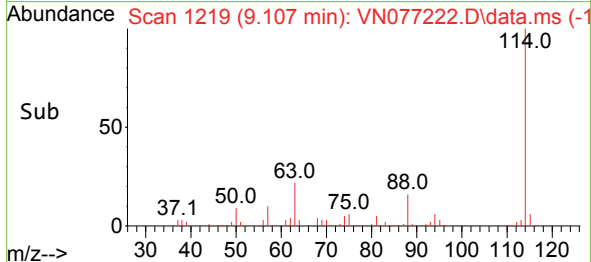
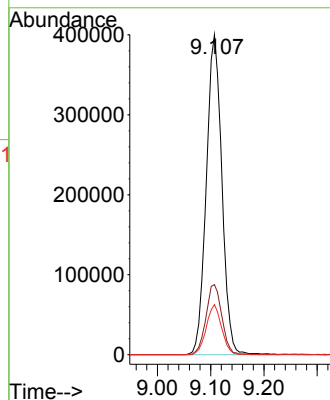
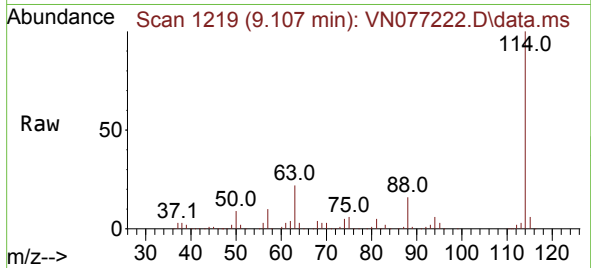




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

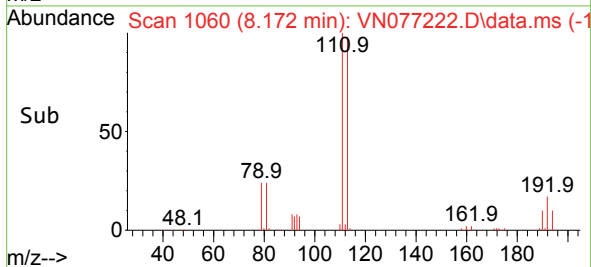
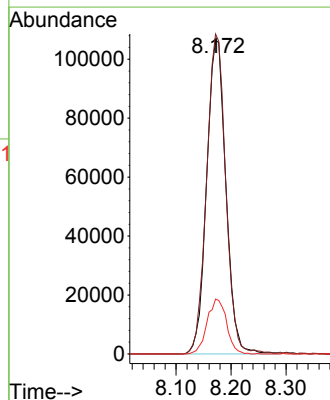
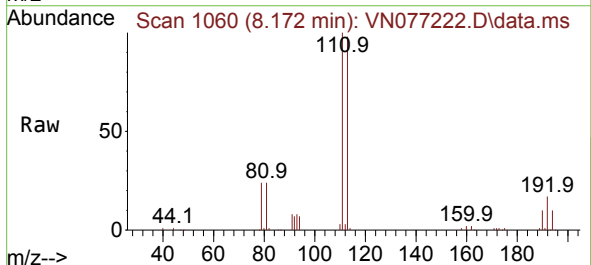
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-F-032223

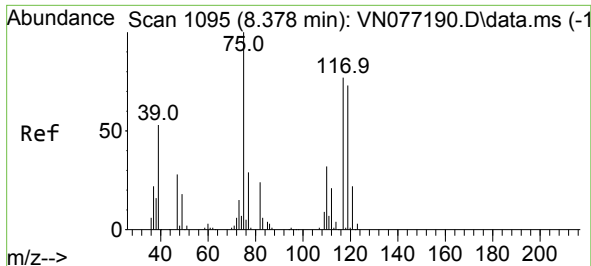
Tgt Ion:114 Resp: 813406
Ion Ratio Lower Upper
114 100
63 21.9 0.0 36.6
88 15.7 0.0 28.6



#35
Dibromofluoromethane
Concen: 46.996 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

Tgt Ion:113 Resp: 259387
Ion Ratio Lower Upper
113 100
111 101.5 81.8 122.8
192 17.6 13.9 20.9

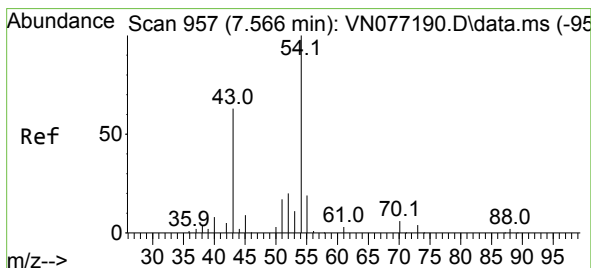
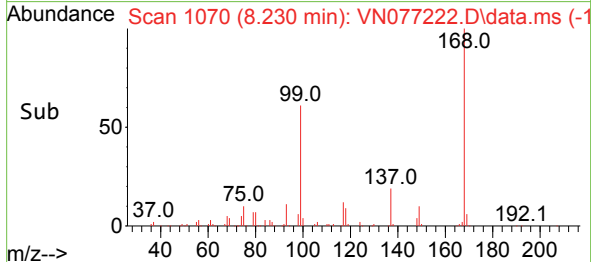
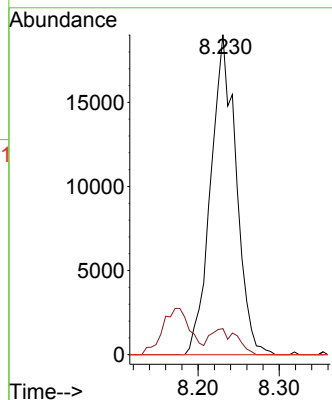
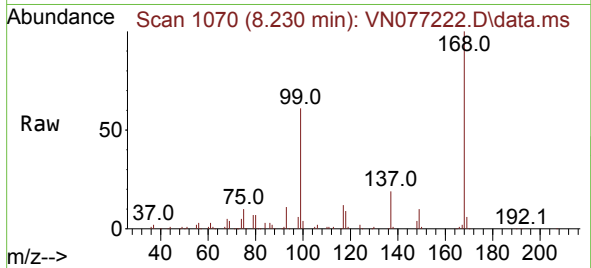




#36
1,1-Dichloropropene
Concen: 5.385 ug/l
RT: 8.230 min Scan# 1095
Delta R.T. -0.148 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

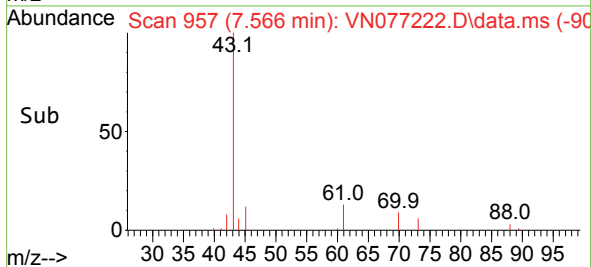
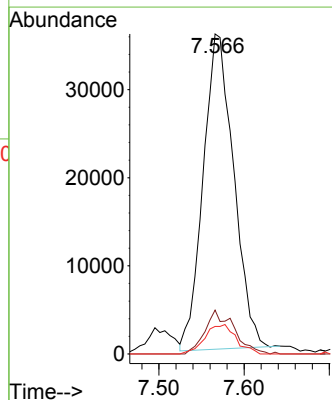
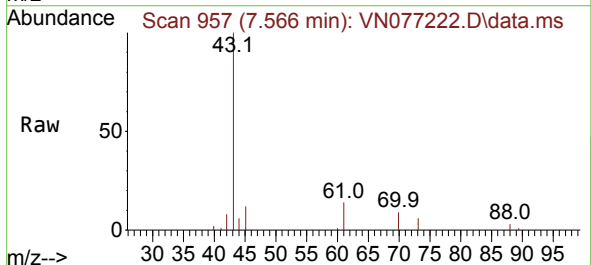
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-F-032223

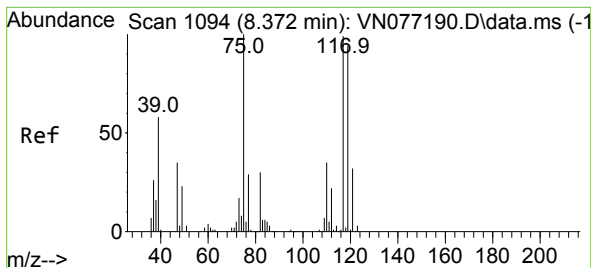
Tgt Ion: 75 Resp: 41364
Ion Ratio Lower Upper
75 100
110 8.5 18.9 56.9#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 10.409 ug/l
RT: 7.566 min Scan# 957
Delta R.T. -0.000 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

Tgt Ion: 43 Resp: 89121
Ion Ratio Lower Upper
43 100
61 13.3 13.5 20.3#
70 9.5 11.0 16.6#





#38

Carbon Tetrachloride

Concen: 6.445 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.142 min

Lab File: VN077222.D

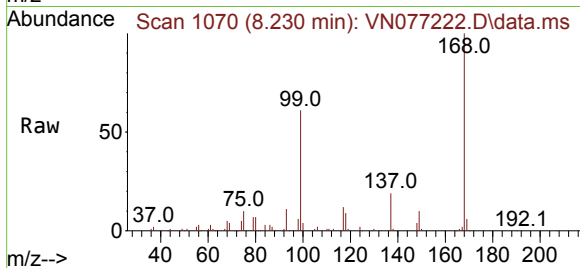
Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-F-032223



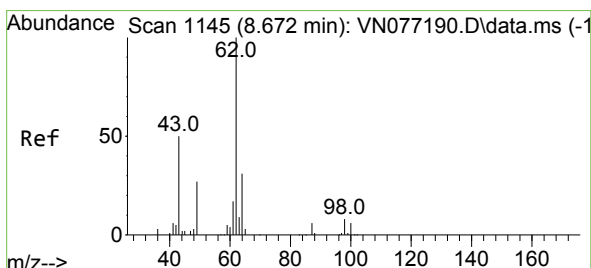
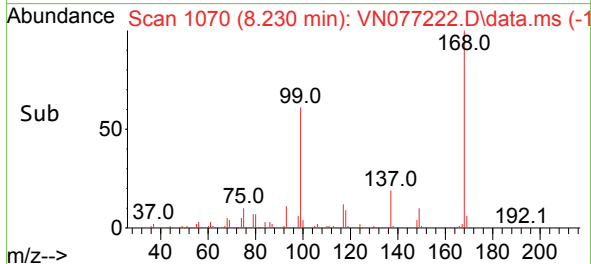
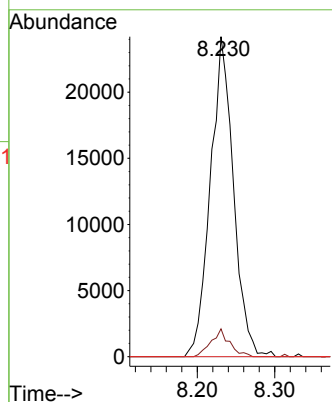
Tgt Ion:117 Resp: 50194

Ion Ratio Lower Upper

117 100

119 8.7 76.9 115.3#

121 0.0 23.2 34.8#



#42

1,2-Dichloroethane

Concen: 0.277 ug/l

RT: 8.683 min Scan# 1147

Delta R.T. 0.011 min

Lab File: VN077222.D

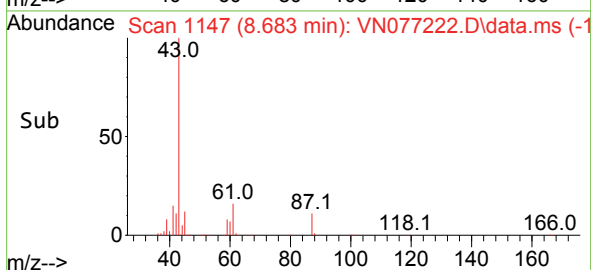
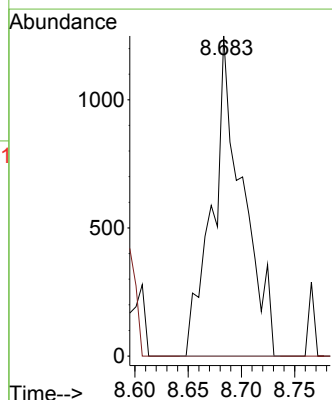
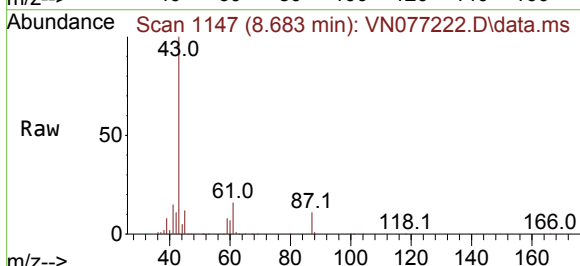
Acq: 27 Mar 2023 23:54

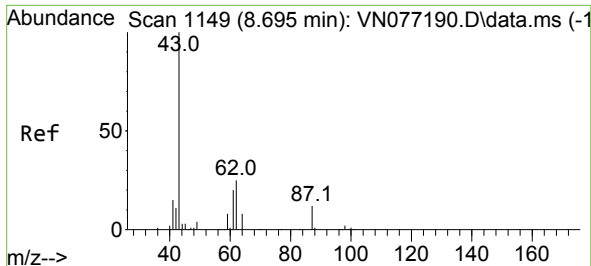
Tgt Ion: 62 Resp: 2458

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.8

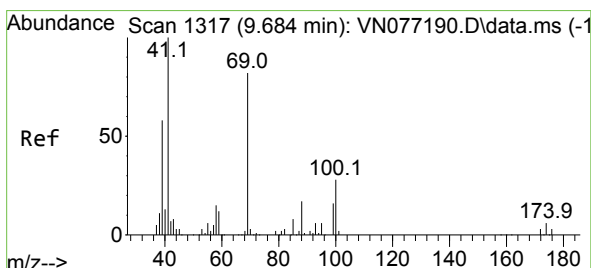
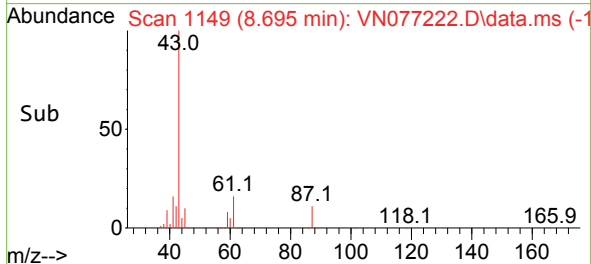
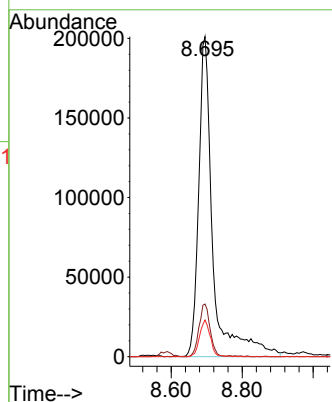
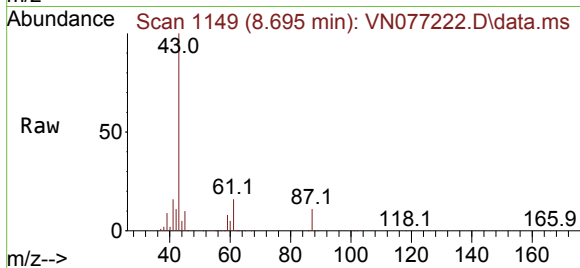




#43
Isopropyl Acetate
Concen: 40.477 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

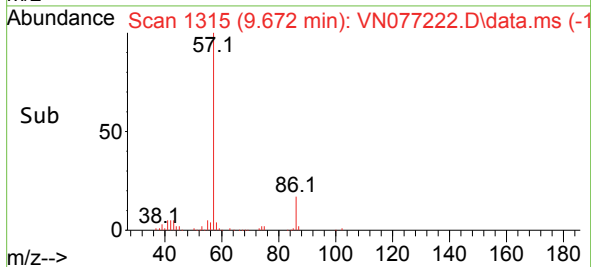
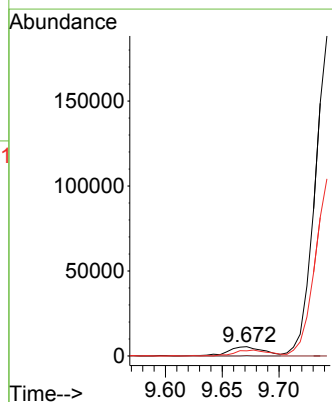
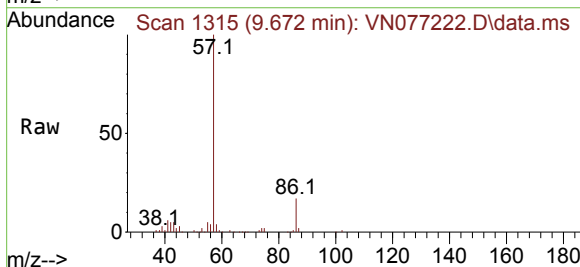
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-F-032223

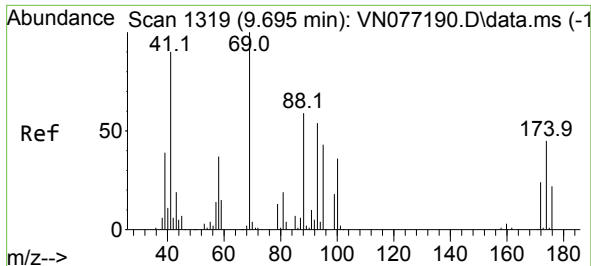
Tgt Ion: 43 Resp: 559128
Ion Ratio Lower Upper
43 100
61 12.9 26.2 39.2#
87 8.5 14.8 22.2#



#48
Methyl methacrylate
Concen: 1.797 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.012 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

Tgt Ion: 41 Resp: 11951
Ion Ratio Lower Upper
41 100
69 0.6 92.6 139.0#
39 63.1 51.4 77.0





#49

1,4-Dioxane

Concen: 5.018 ug/l

RT: 9.748 min Scan# 1319

Delta R.T. 0.053 min

Lab File: VN077222.D

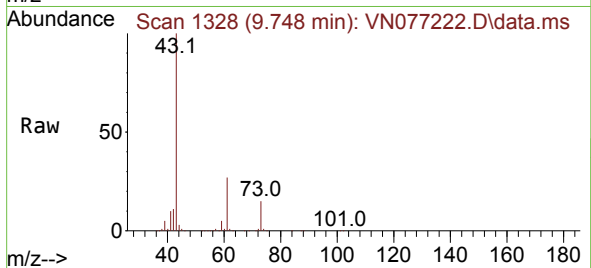
Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-F-032223



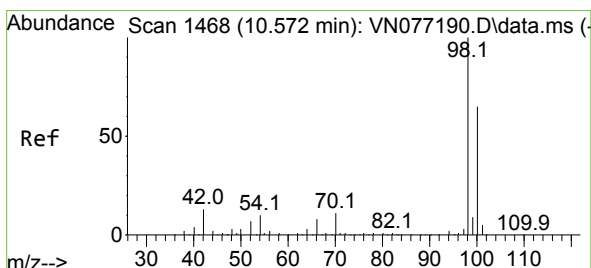
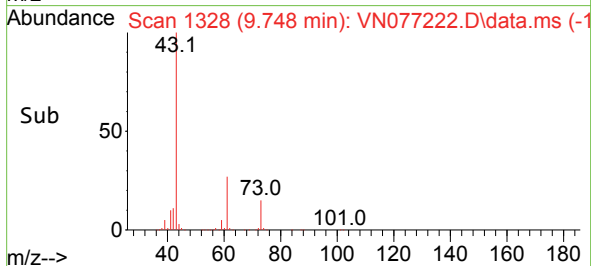
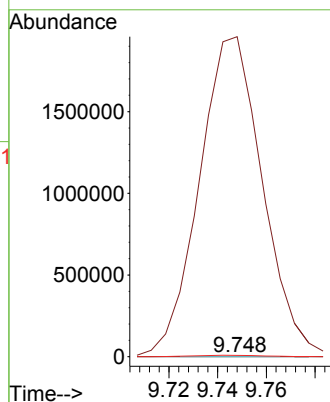
Tgt Ion: 88 Resp: 569

Ion Ratio Lower Upper

88 100

43 627207.4 15.3 22.9#

58 2900.9 47.6 71.4#



#50

Toluene-d8

Concen: 48.921 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077222.D

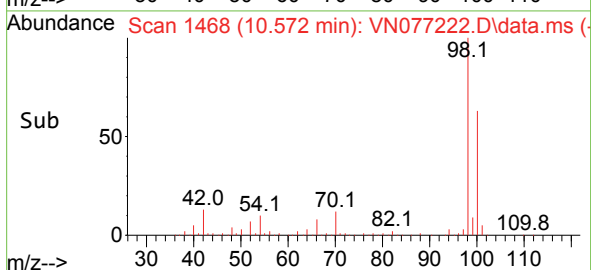
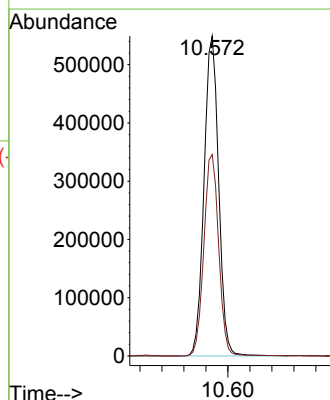
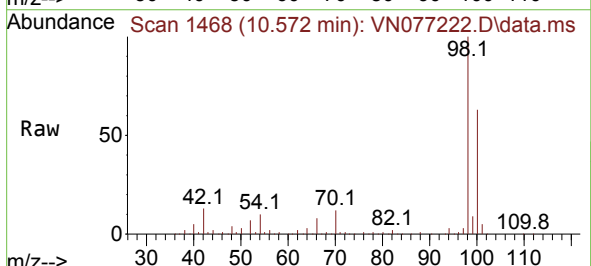
Acq: 27 Mar 2023 23:54

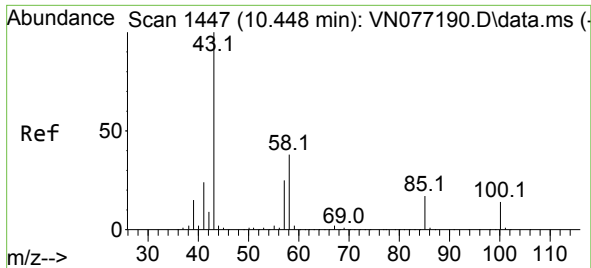
Tgt Ion: 98 Resp: 1011740

Ion Ratio Lower Upper

98 100

100 64.0 52.8 79.2

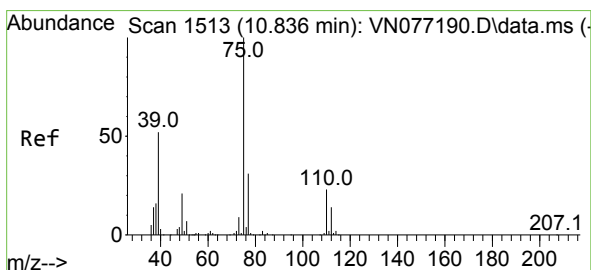
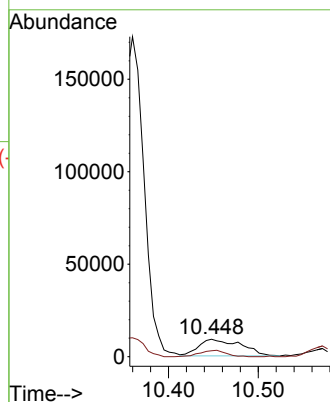
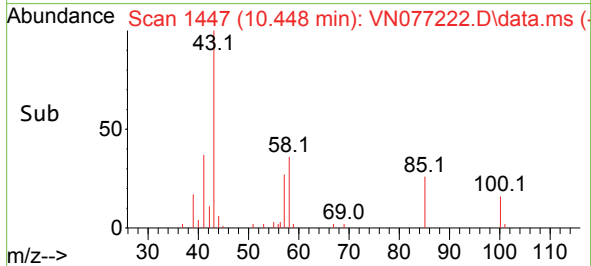
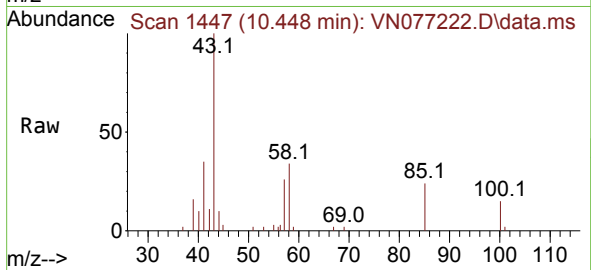




#51
4-Methyl-2-Pentanone
Concen: 3.405 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

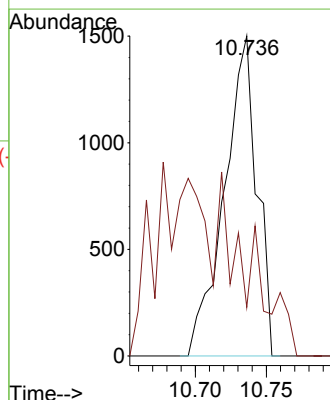
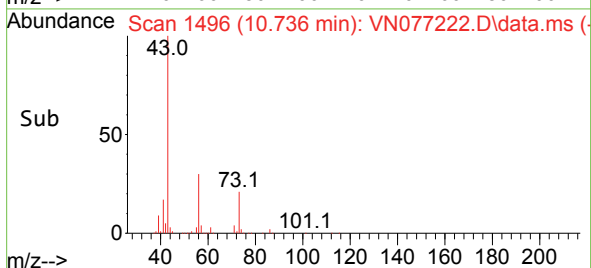
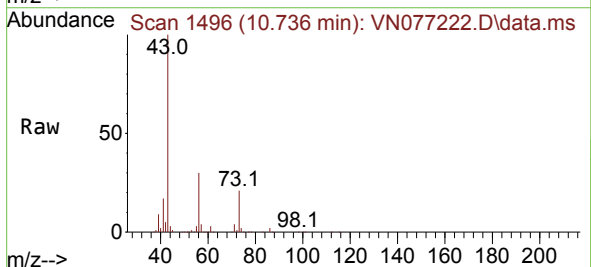
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-F-032223

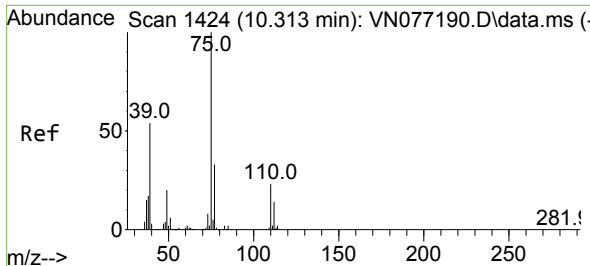
Tgt Ion: 43 Resp: 29595
Ion Ratio Lower Upper
43 100
58 23.3 37.4 56.0#



#53
t-1,3-Dichloropropene
Concen: 0.289 ug/l
RT: 10.736 min Scan# 1496
Delta R.T. -0.100 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

Tgt Ion: 75 Resp: 2384
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#

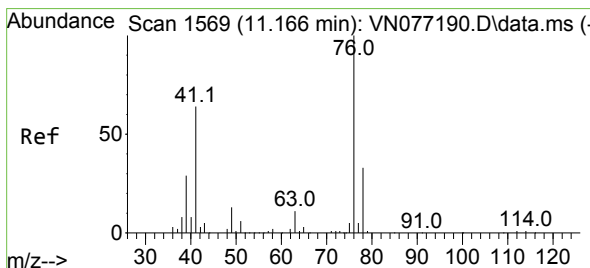
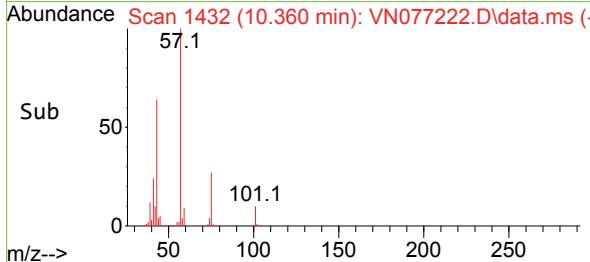
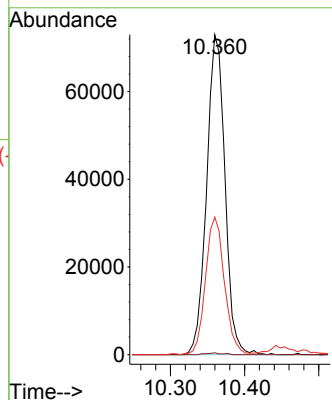
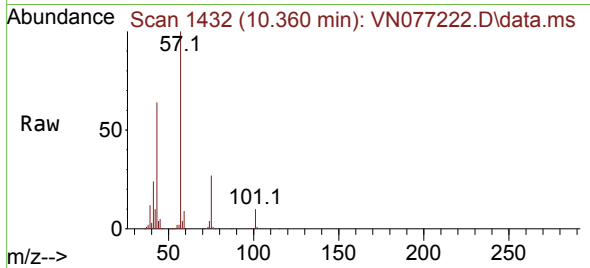




#54
 cis-1,3-Dichloropropene
 Concen: 13.855 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN077222.D
 Acq: 27 Mar 2023 23:54

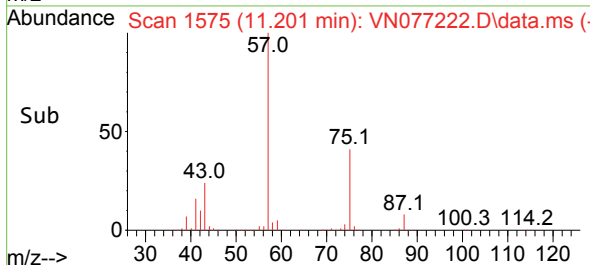
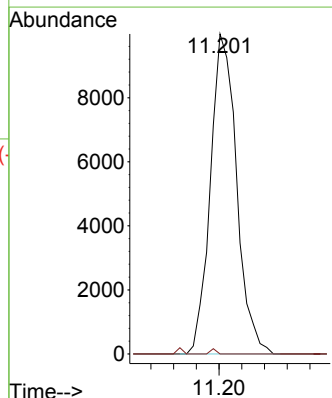
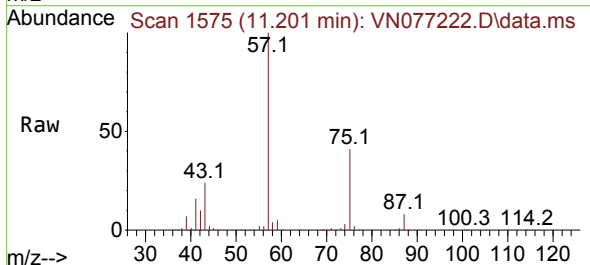
Instrument :
 MSVOA_N
 ClientSampleId :
 152140-TCLP-F-032223

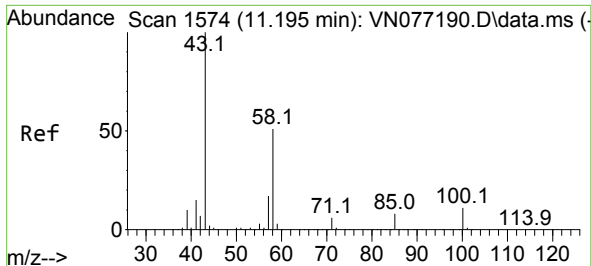
Tgt Ion: 75 Resp: 125224
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 43.0 29.7 44.5



#57
 1,3-Dichloropropane
 Concen: 1.594 ug/l
 RT: 11.201 min Scan# 1575
 Delta R.T. 0.035 min
 Lab File: VN077222.D
 Acq: 27 Mar 2023 23:54

Tgt Ion: 76 Resp: 16017
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.1 39.1#

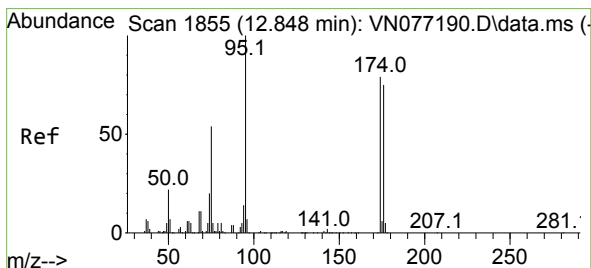
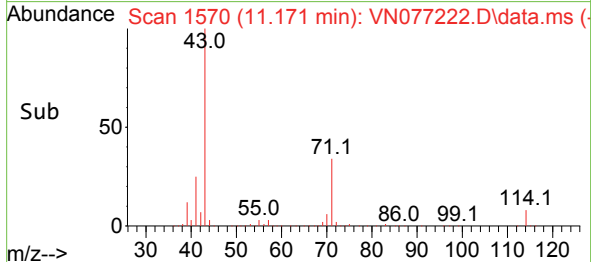
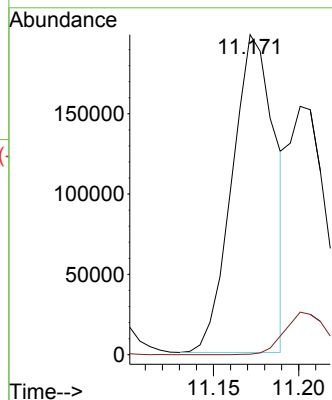
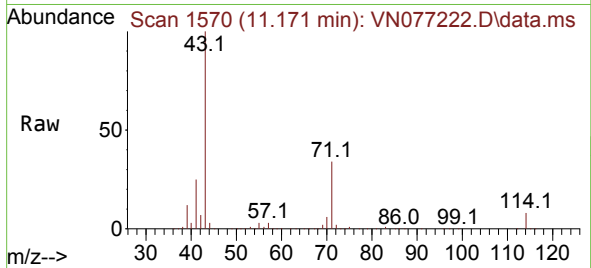




#59
2-Hexanone
Concen: 55.323 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

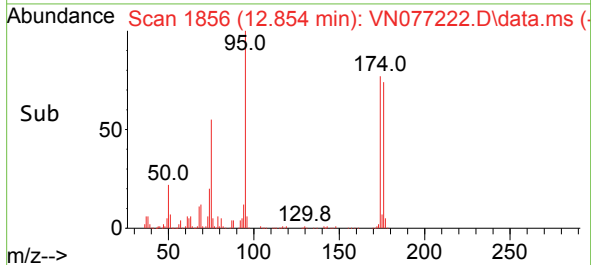
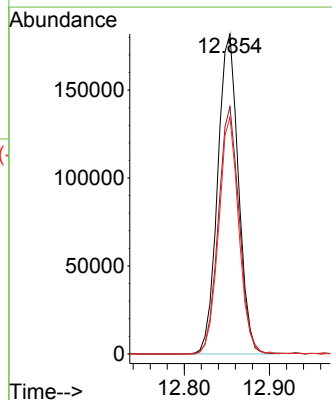
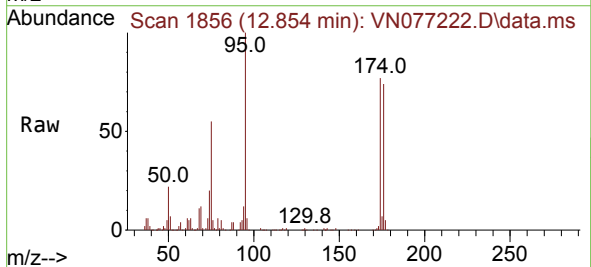
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-F-032223

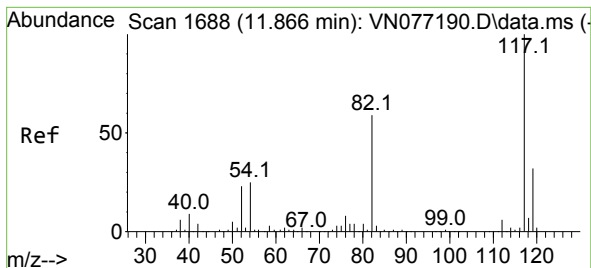
Tgt Ion: 43 Resp: 345566
Ion Ratio Lower Upper
43 100
58 0.0 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 45.329 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077222.D
Acq: 27 Mar 2023 23:54

Tgt Ion: 95 Resp: 307666
Ion Ratio Lower Upper
95 100
174 77.3 0.0 162.4
176 71.6 0.0 157.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.866 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077222.D

Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-F-032223

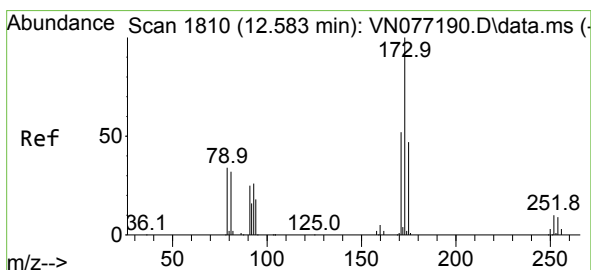
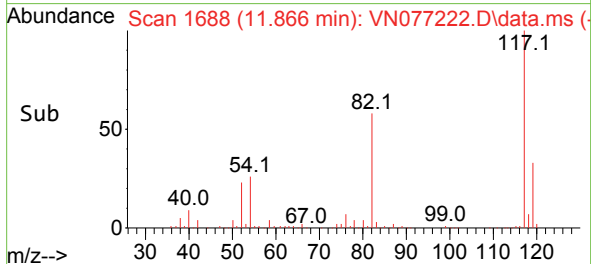
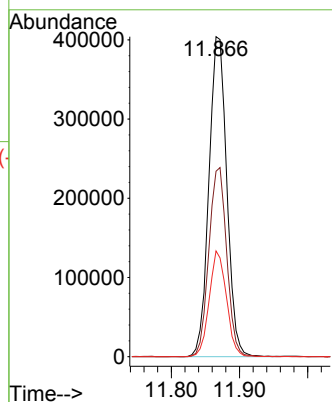
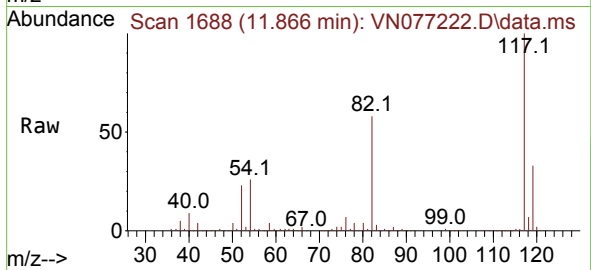
Tgt Ion:117 Resp: 735962

Ion Ratio Lower Upper

117 100

82 58.0 43.5 65.3

119 33.1 25.5 38.3



#71

Bromoform

Concen: 0.831 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.271 min

Lab File: VN077222.D

Acq: 27 Mar 2023 23:54

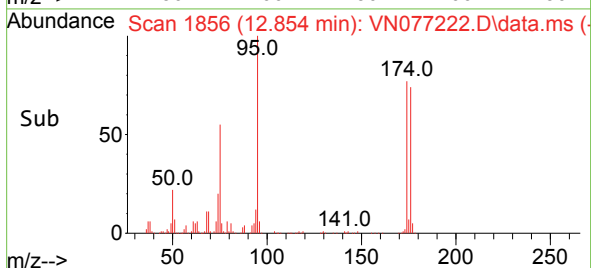
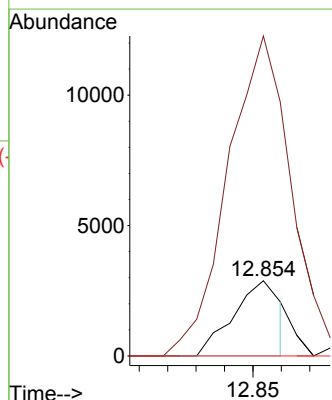
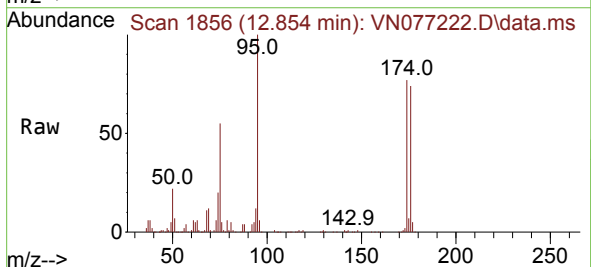
Tgt Ion:173 Resp: 3334

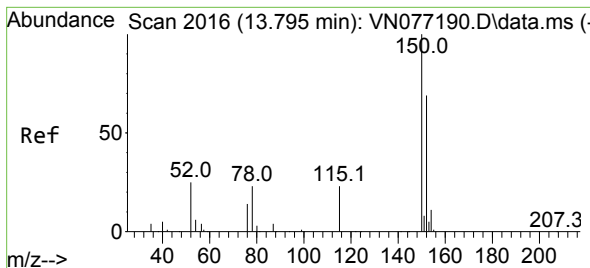
Ion Ratio Lower Upper

173 100

175 482.6 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: VN077222.D

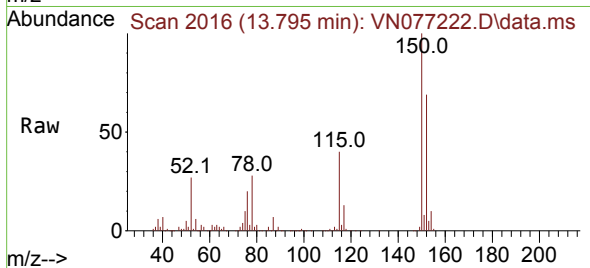
Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-F-032223



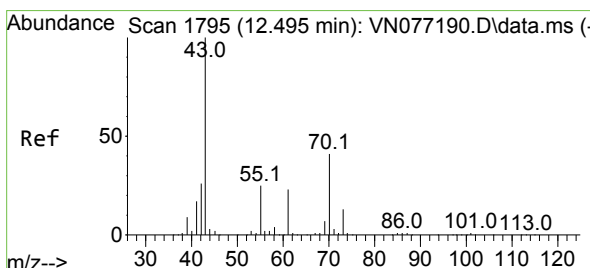
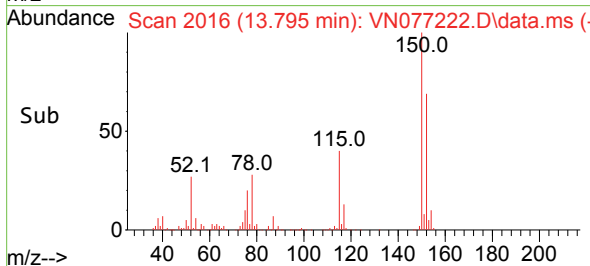
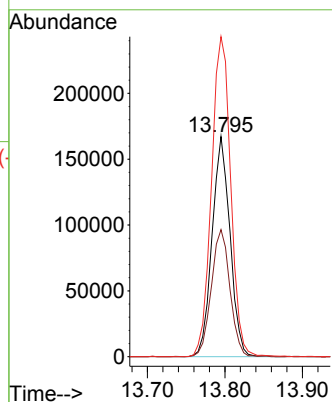
Tgt Ion:152 Resp: 268188

Ion Ratio Lower Upper

152 100

115 60.1 30.3 90.9

150 155.8 0.0 353.6



#74

N-ethyl acetate

Concen: 0.465 ug/l

RT: 12.483 min Scan# 1793

Delta R.T. -0.012 min

Lab File: VN077222.D

Acq: 27 Mar 2023 23:54

Tgt Ion: 43 Resp: 4271

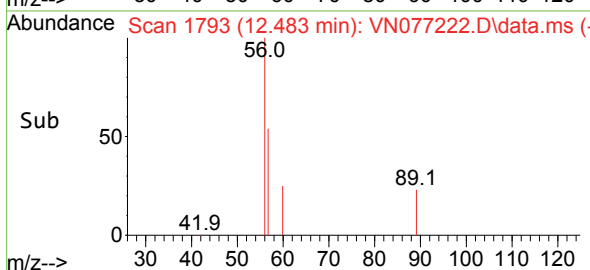
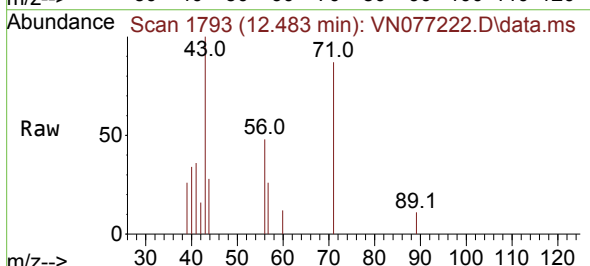
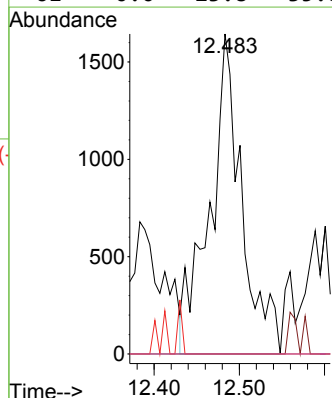
Ion Ratio Lower Upper

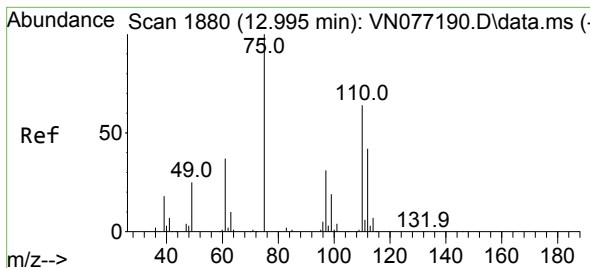
43 100

70 0.0 46.8 70.2#

55 0.0 23.4 35.2#

61 0.0 23.8 35.8#





#76

1,2,3-Trichloropropane

Concen: 31.154 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077222.D

Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

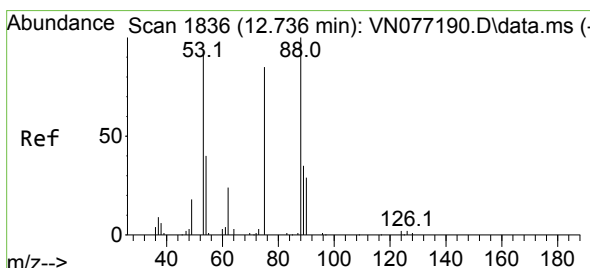
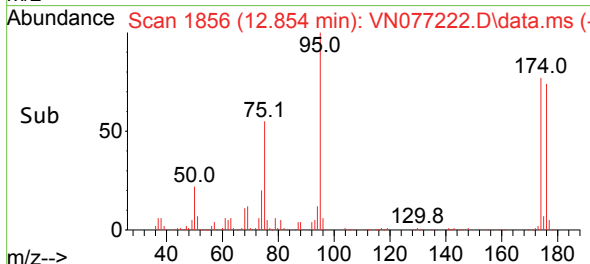
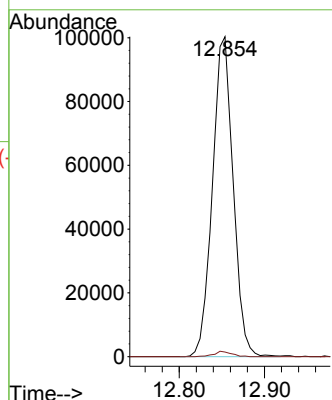
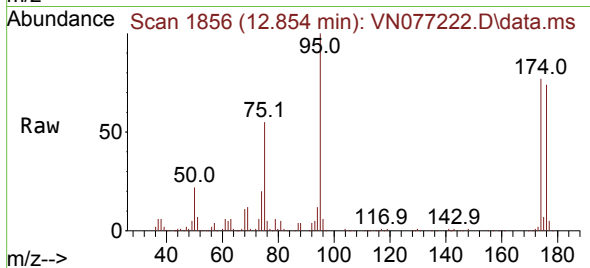
152140-TCLP-F-032223

Tgt Ion: 75 Resp: 169489

Ion Ratio Lower Upper

75 100

77 1.5 93.8 281.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 89.789 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.118 min

Lab File: VN077222.D

Acq: 27 Mar 2023 23:54

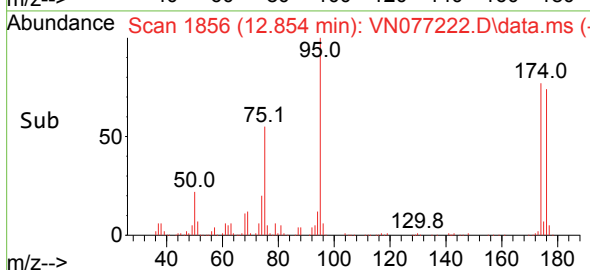
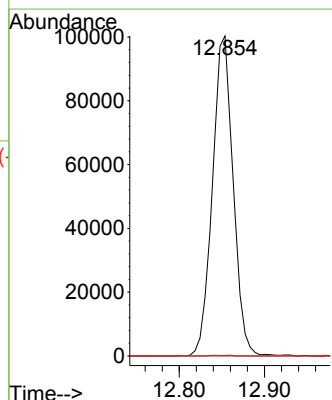
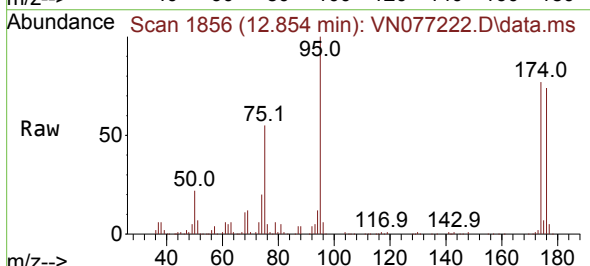
Tgt Ion: 75 Resp: 169489

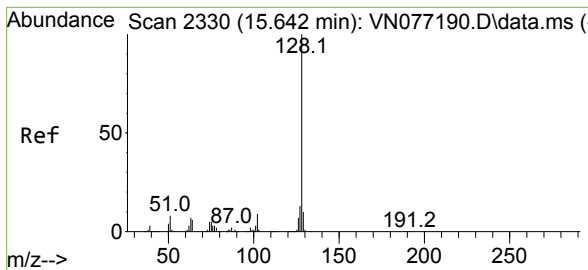
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.0#

89 0.0 39.5 59.3#





#95

Naphthalene

Concen: 5.940 ug/l

RT: 15.636 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN077222.D

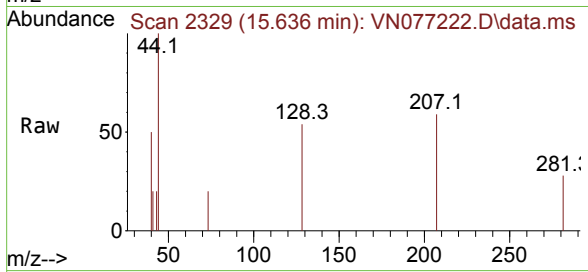
Acq: 27 Mar 2023 23:54

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-F-032223



Tgt Ion:128 Resp: 394

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.9 13.3#

