

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077217.D
 Acq On : 27 Mar 2023 21:53
 Operator : JC\MD
 Sample : 02081-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

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

Quant Time: Mar 28 07:45:49 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)

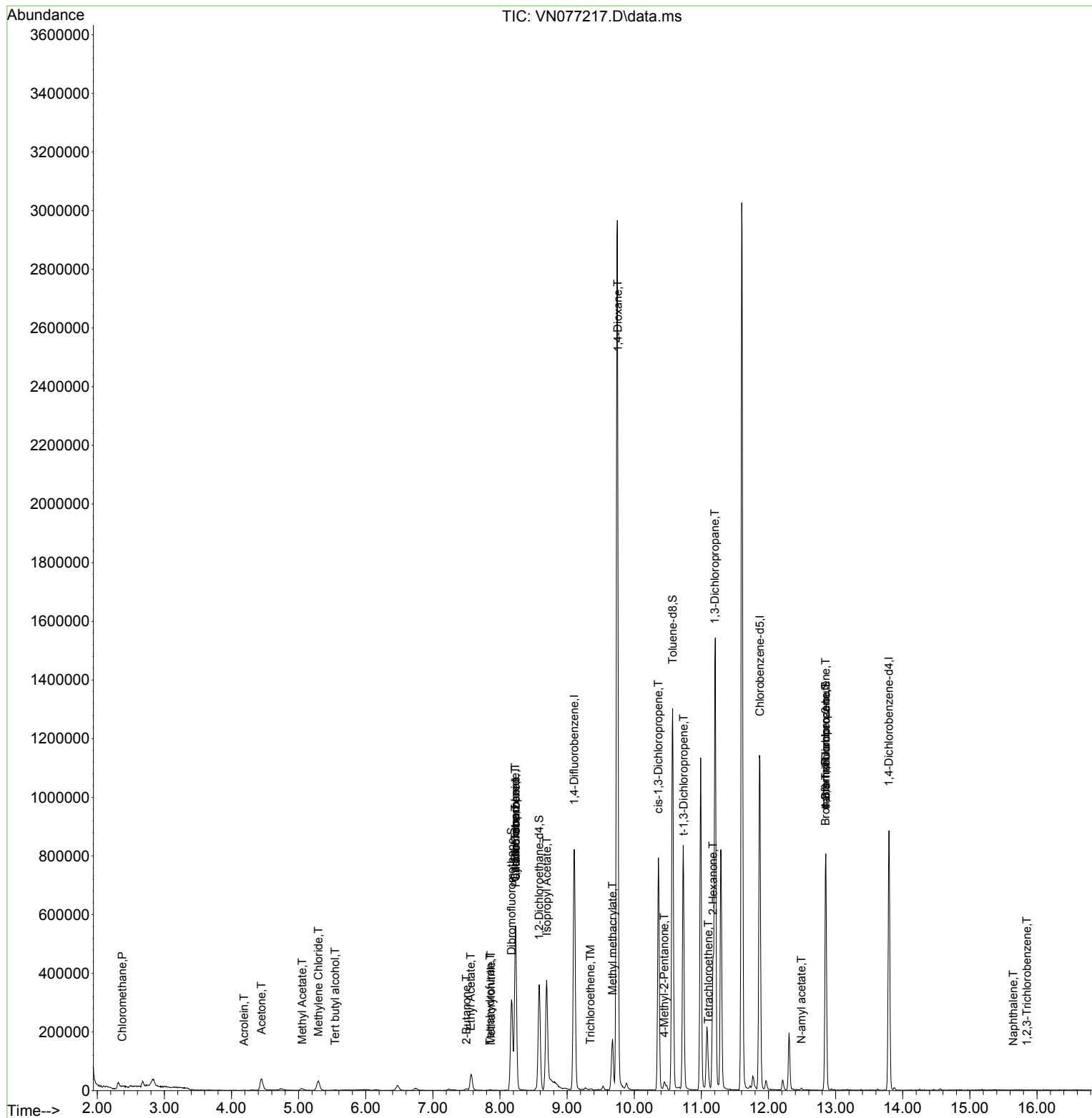
Internal Standards						
1) Pentafluorobenzene	8.236	168	394155	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	695043	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	628881	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	225843	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	289574	46.987	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.980%		
35) Dibromofluoromethane	8.172	113	218977	46.431	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.860%		
50) Toluene-d8	10.572	98	872506	49.373	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.740%		
62) 4-Bromofluorobenzene	12.854	95	263012	45.349	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.700%		
Target Compounds						Qvalue
3) Chloromethane	2.372	50	1485	0.257	ug/l	91
11) Tert butyl alcohol	5.542	59	784	0.933	ug/l #	72
13) Acrolein	4.190	56	445	0.378	ug/l #	49
16) Acetone	4.448	43	76147	33.231	ug/l	94
18) Methyl Acetate	5.054	43	13994	1.526	ug/l #	80
20) Methylene Chloride	5.295	84	24187	4.740	ug/l #	70
25) 2-Butanone	7.501	43	8534	2.382	ug/l	93
29) Tetrahydrofuran	7.854	42	1161	0.489	ug/l #	58
31) Cyclohexane	8.230	56	10810	1.263	ug/l #	53
36) 1,1-Dichloropropene	8.230	75	35981	5.482	ug/l #	48
37) Ethyl Acetate	7.566	43	83766	11.449	ug/l #	91
38) Carbon Tetrachloride	8.230	117	41258	6.199	ug/l #	18
41) Methacrylonitrile	7.866	41	1187	0.297	ug/l #	15
43) Isopropyl Acetate	8.695	43	478999	40.581	ug/l #	72
44) Trichloroethene	9.348	130	1777	0.386	ug/l	70
48) Methyl methacrylate	9.677	41	11378	2.002	ug/l #	32
49) 1,4-Dioxane	9.754	88	233	2.405	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	29823	4.016	ug/l #	66
53) t-1,3-Dichloropropene	10.736	75	1928	0.273	ug/l #	43
54) cis-1,3-Dichloropropene	10.360	75	126463	16.375	ug/l #	68
57) 1,3-Dichloropropane	11.201	76	15331	1.786	ug/l #	43
59) 2-Hexanone	11.171	43	393012	73.634	ug/l #	17
64) Tetrachloroethene	11.107	164	6998	1.794	ug/l #	77
71) Bromoform	12.848	173	1815	0.529	ug/l #	1
74) N-amyl acetate	12.489	43	4157	0.537	ug/l #	36
76) 1,2,3-Trichloropropane	12.854	75	147062	32.100	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	147062	92.516	ug/l #	15
95) Naphthalene	15.648	128	147	5.926	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.848	180	104	4.675	ug/l #	12

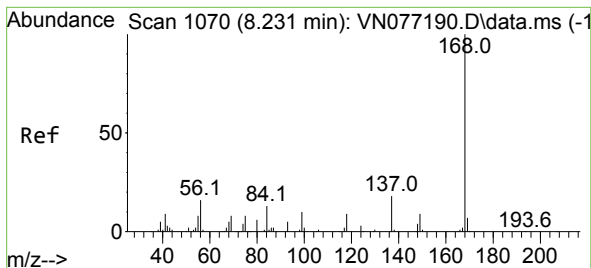
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN077217.D

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Instrument :

MSVOA_N

ClientSampleId :

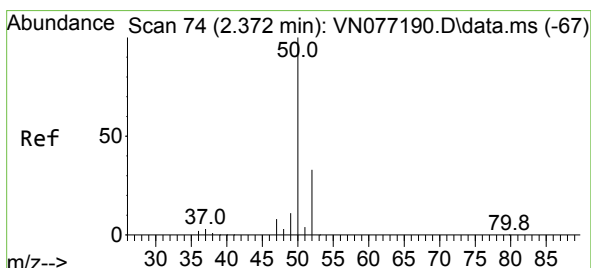
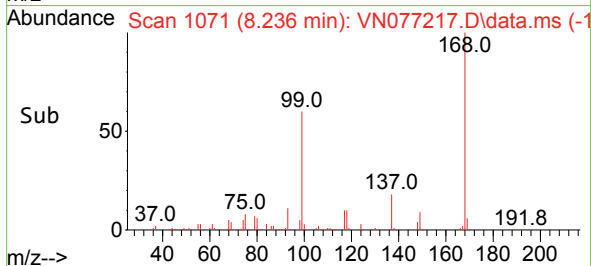
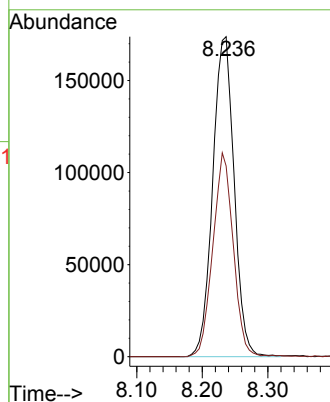
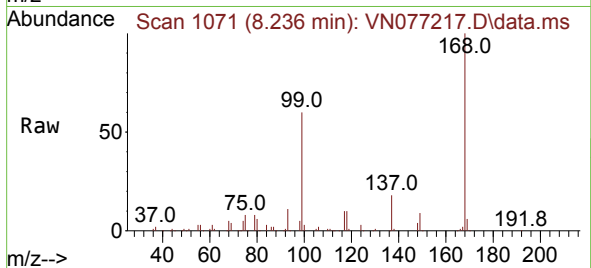
152140-TCLP-A-032223

Tgt Ion:168 Resp: 394155

Ion Ratio Lower Upper

168 100

99 59.6 48.6 73.0



#3

Chloromethane

Concen: 0.257 ug/l

RT: 2.372 min Scan# 74

Delta R.T. 0.000 min

Lab File: VN077217.D

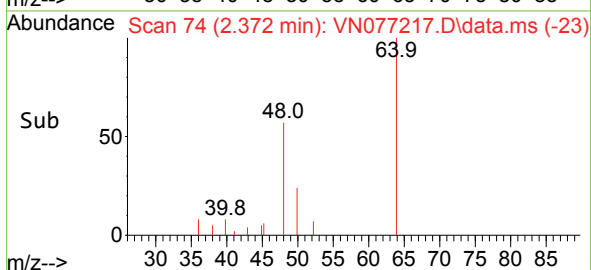
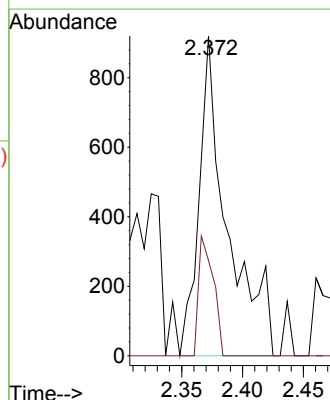
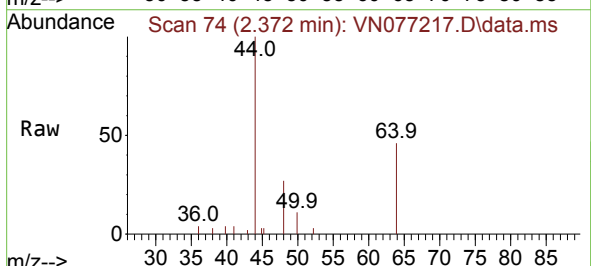
Acq: 27 Mar 2023 21:53

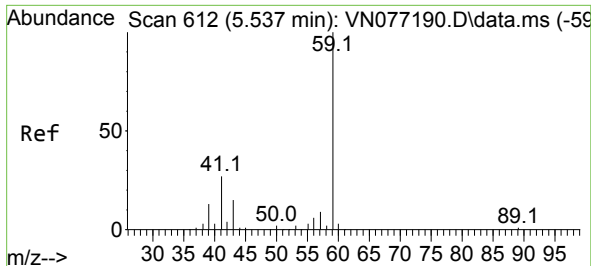
Tgt Ion: 50 Resp: 1485

Ion Ratio Lower Upper

50 100

52 29.8 27.9 41.9

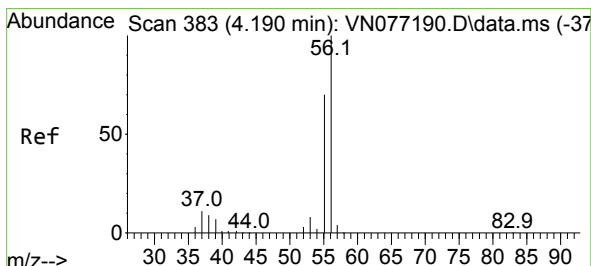
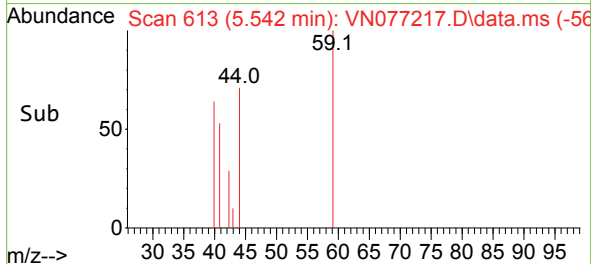
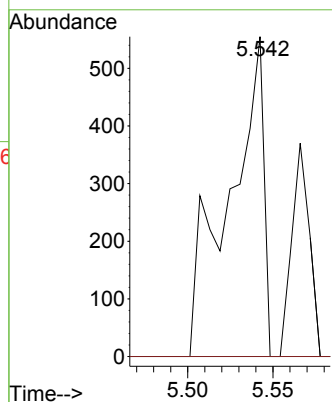
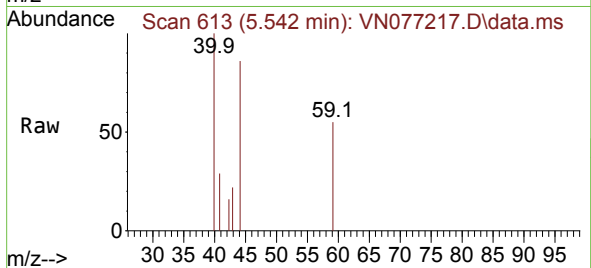




#11
Tert butyl alcohol
Concen: 0.933 ug/l
RT: 5.542 min Scan# 612
Delta R.T. 0.005 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

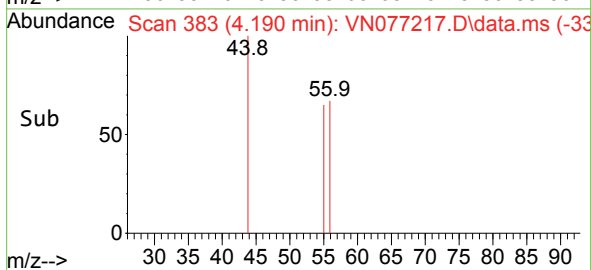
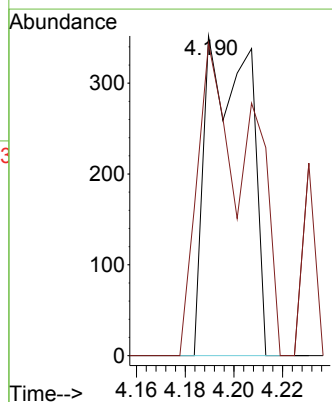
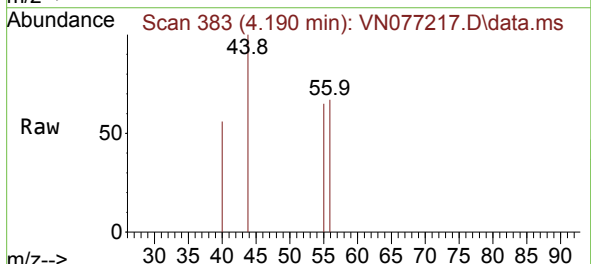
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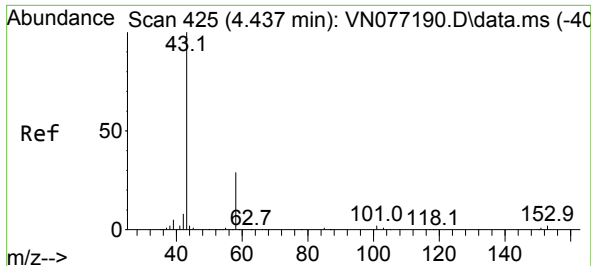
Tgt Ion: 59 Resp: 784
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.378 ug/l
RT: 4.190 min Scan# 383
Delta R.T. -0.000 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 56 Resp: 445
Ion Ratio Lower Upper
56 100
55 113.0 56.7 85.1#

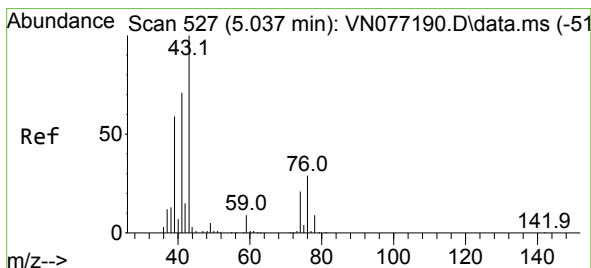
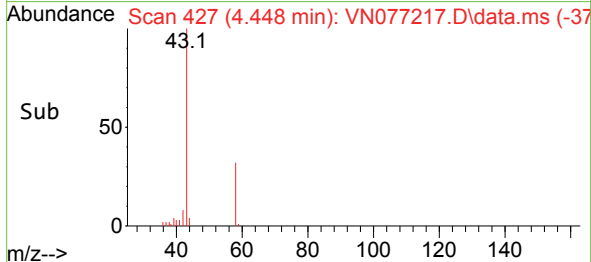
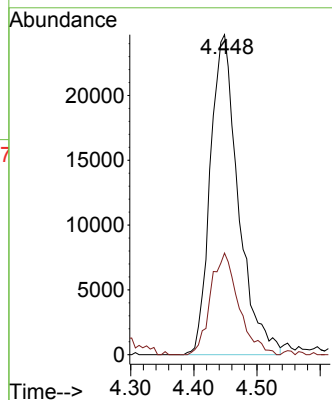
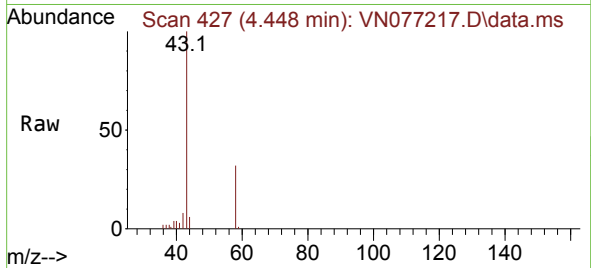




#16
Acetone
Concen: 33.231 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

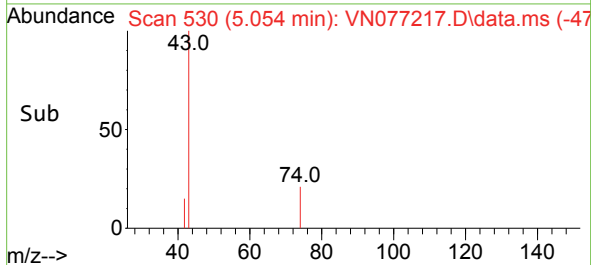
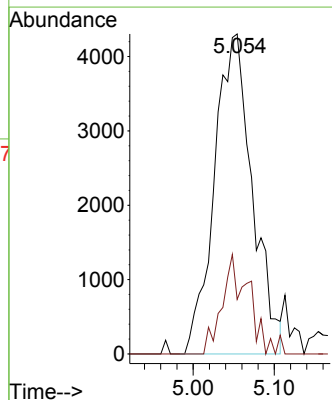
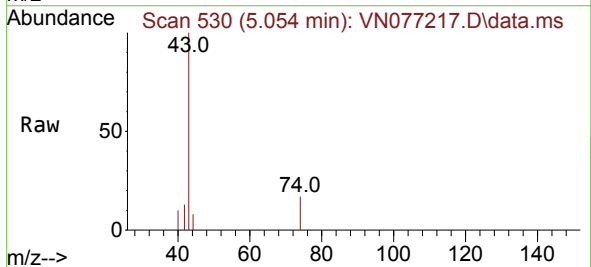
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

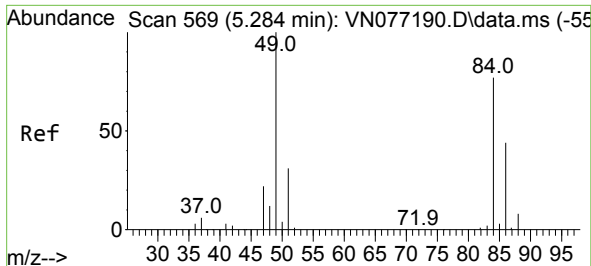
Tgt Ion: 43 Resp: 76147
Ion Ratio Lower Upper
43 100
58 31.8 28.2 42.2



#18
Methyl Acetate
Concen: 1.526 ug/l
RT: 5.054 min Scan# 530
Delta R.T. 0.017 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

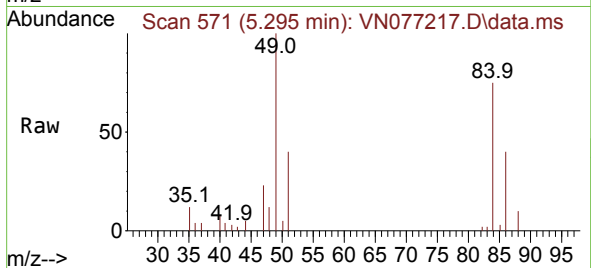
Tgt Ion: 43 Resp: 13994
Ion Ratio Lower Upper
43 100
74 21.4 25.9 38.9#



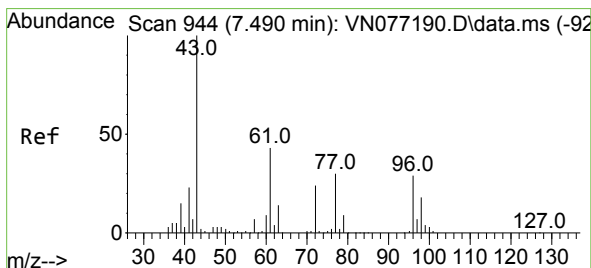
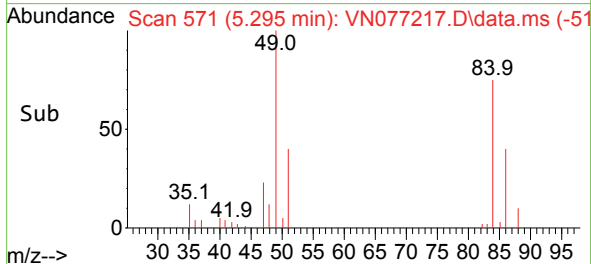
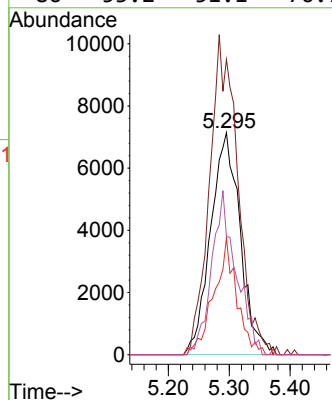


#20
Methylene Chloride
Concen: 4.740 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

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

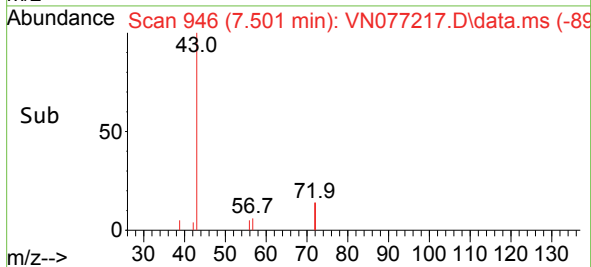
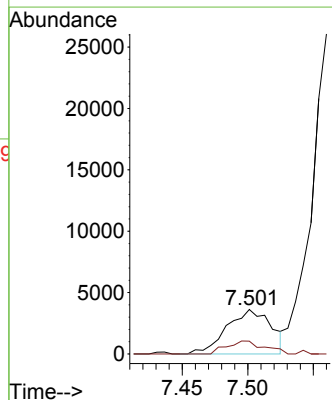
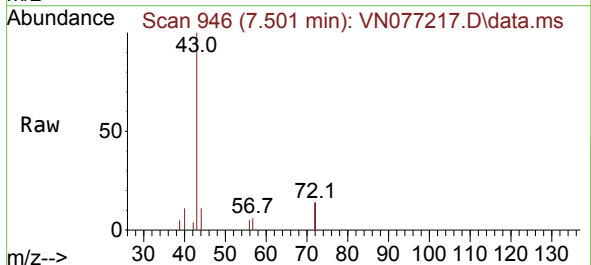


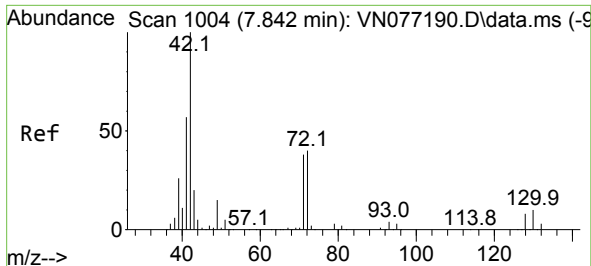
Tgt Ion: 84	Resp: 24187
Ion Ratio	Lower Upper
84 100	
49 132.9	76.6 114.8#
51 52.6	25.4 38.2#
86 53.2	51.1 76.7



#25
2-Butanone
Concen: 2.382 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.011 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 43	Resp: 8534
Ion Ratio	Lower Upper
43 100	
72 31.9	28.8 43.2





#29

Tetrahydrofuran

Concen: 0.489 ug/l

RT: 7.854 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN077217.D

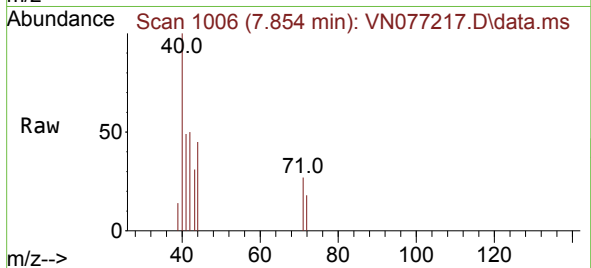
Acq: 27 Mar 2023 21:53

Instrument :

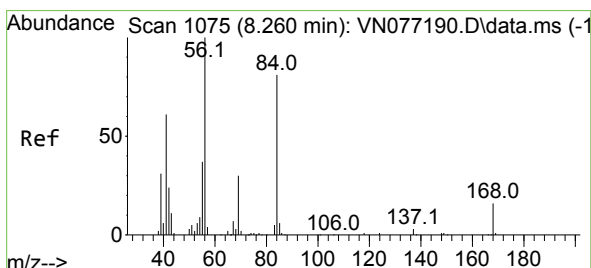
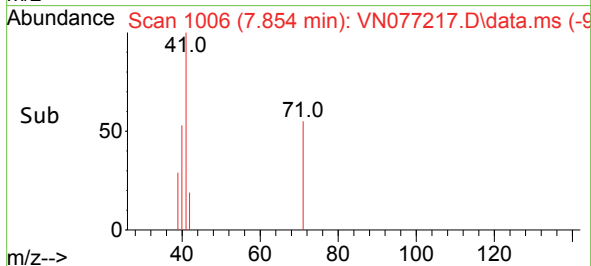
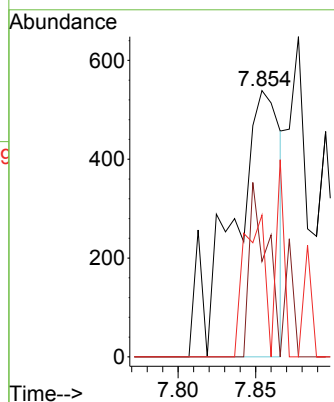
MSVOA_N

ClientSampleId :

152140-TCLP-A-032223



Tgt Ion:	42	Resp:	1161
Ion	Ratio	Lower	Upper
42	100		
72	31.4	48.6	73.0#
71	23.3	45.1	67.7#



#31

Cyclohexane

Concen: 1.263 ug/l

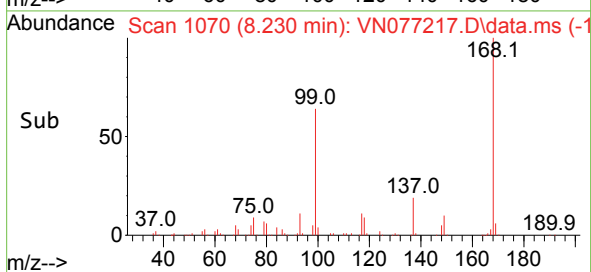
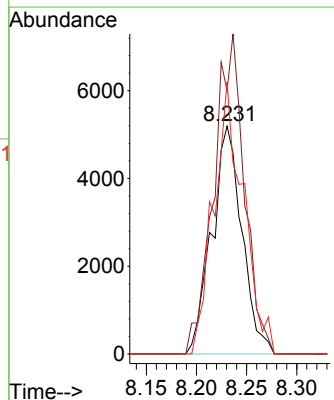
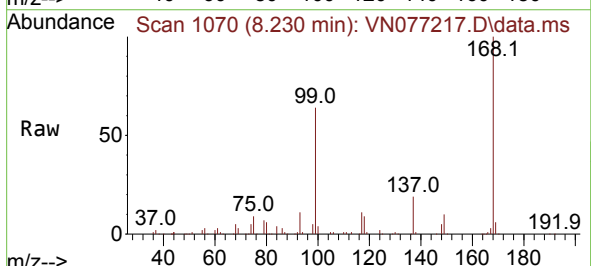
RT: 8.230 min Scan# 1070

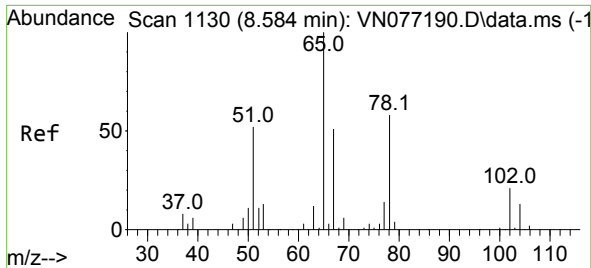
Delta R.T. -0.030 min

Lab File: VN077217.D

Acq: 27 Mar 2023 21:53

Tgt Ion:	56	Resp:	10810
Ion	Ratio	Lower	Upper
56	100		
69	115.6	27.0	40.6#
84	119.4	82.9	124.3

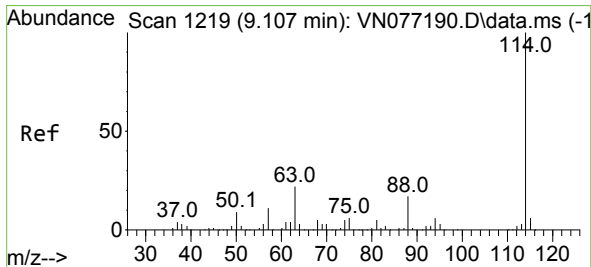
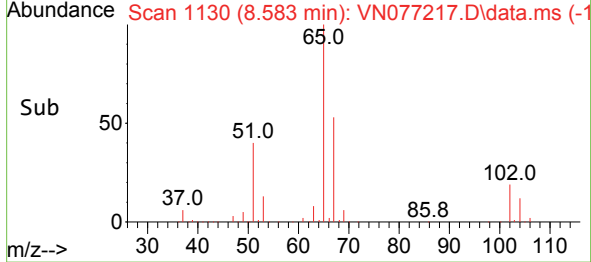
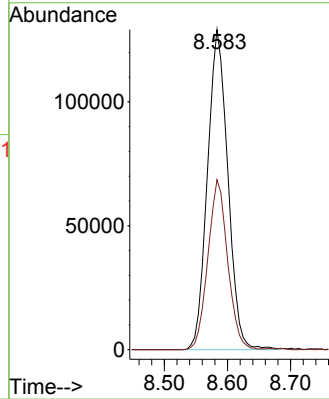
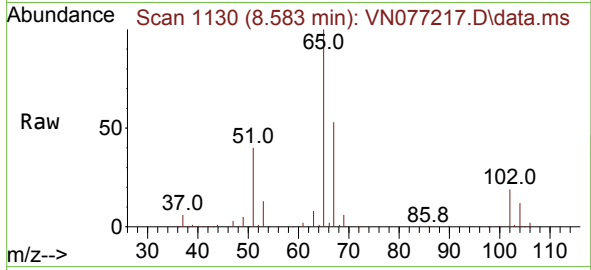




#33
1,2-Dichloroethane-d4
Concen: 46.987 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.001 min
Lab File: VN077217.D
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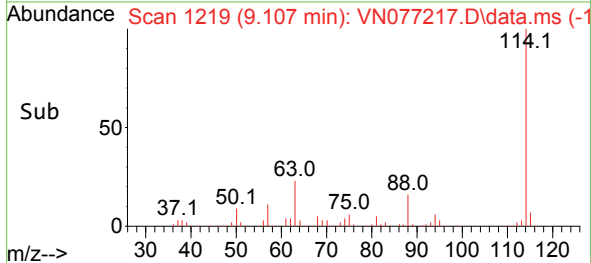
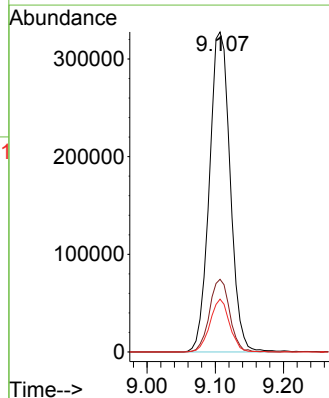
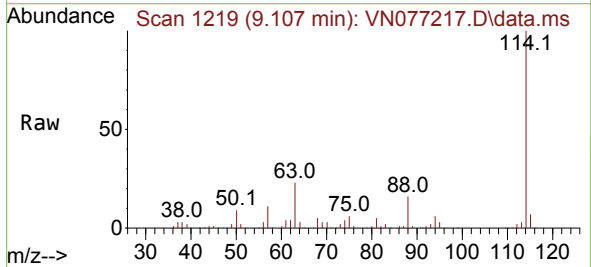
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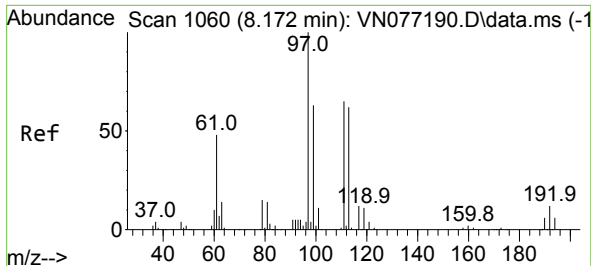
Tgt Ion: 65 Resp: 289574
Ion Ratio Lower Upper
65 100
67 51.5 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 114 Resp: 695043
Ion Ratio Lower Upper
114 100
63 22.7 0.0 36.6
88 16.5 0.0 28.6

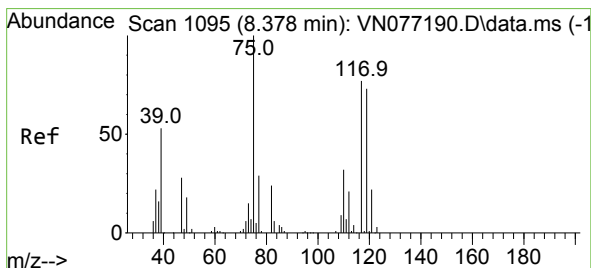
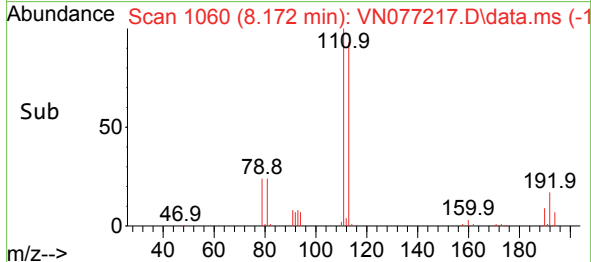
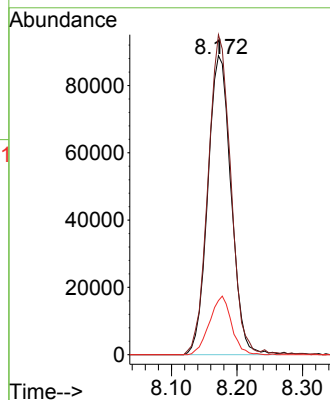
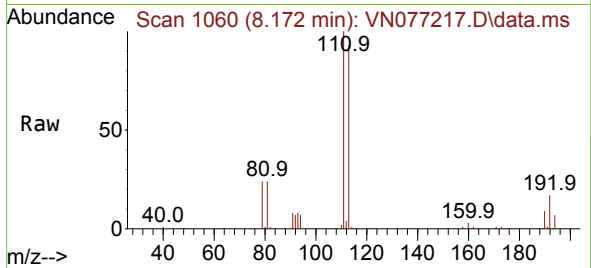




#35
Dibromofluoromethane
Concen: 46.431 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

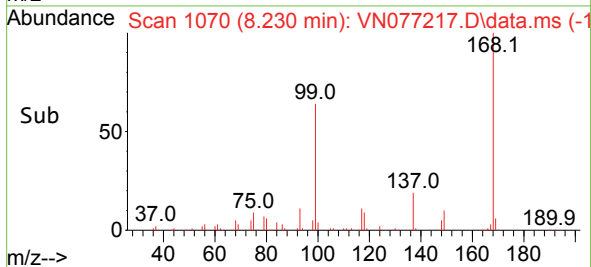
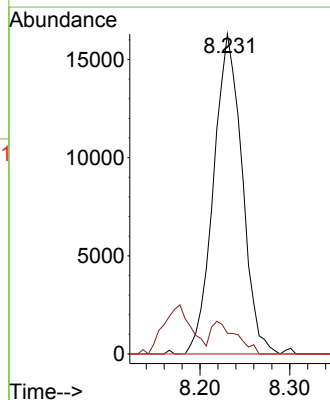
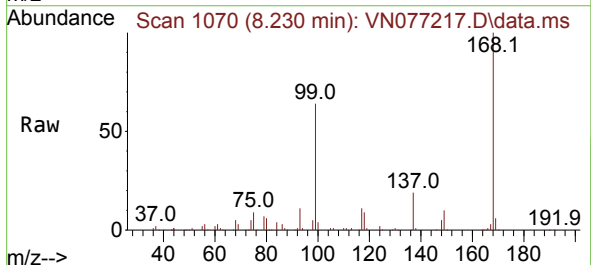
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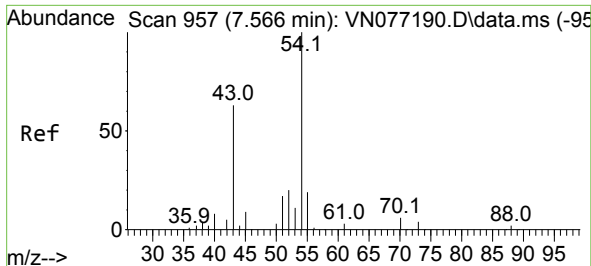
Tgt Ion:113 Resp: 218977
Ion Ratio Lower Upper
113 100
111 105.3 81.8 122.8
192 18.5 13.9 20.9



#36
1,1-Dichloropropene
Concen: 5.482 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.148 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 75 Resp: 35981
Ion Ratio Lower Upper
75 100
110 8.9 18.9 56.9#
77 0.0 24.9 37.3#

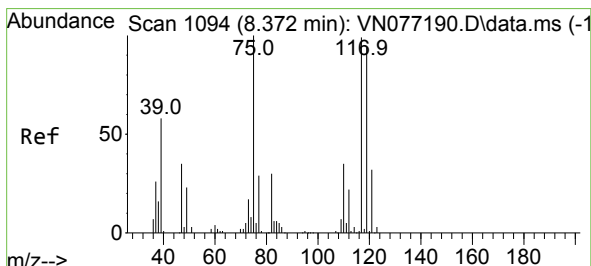
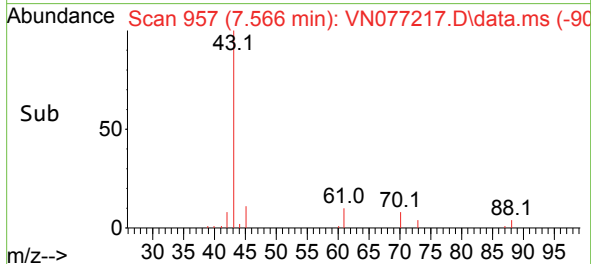
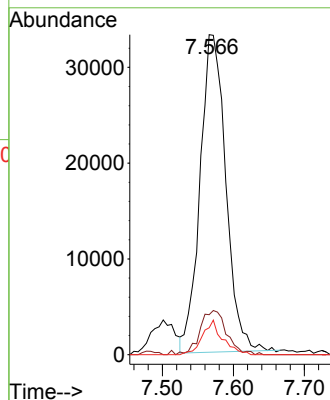
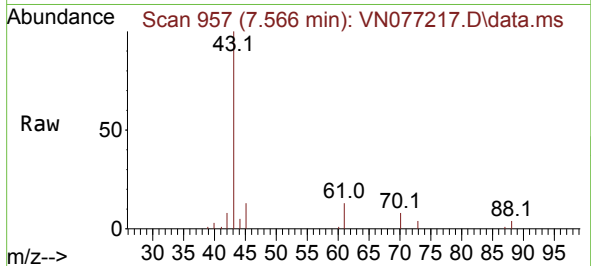




#37
Ethyl Acetate
Concen: 11.449 ug/l
RT: 7.566 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

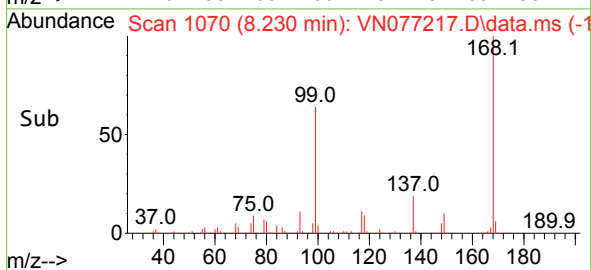
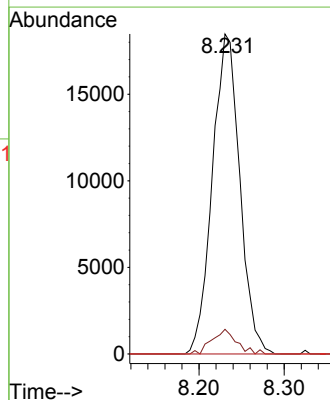
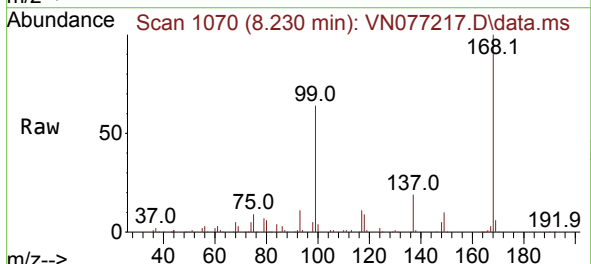
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

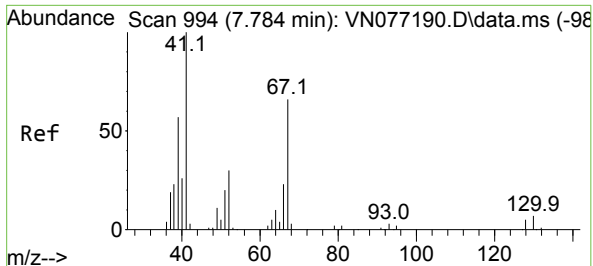
Tgt Ion: 43 Resp: 83766
Ion Ratio Lower Upper
43 100
61 14.4 13.5 20.3
70 8.5 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 6.199 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.142 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 117 Resp: 41258
Ion Ratio Lower Upper
117 100
119 7.7 76.9 115.3#
121 0.0 23.2 34.8#

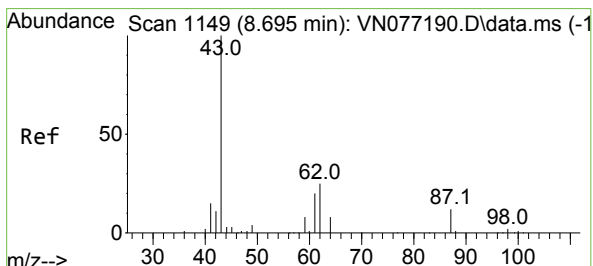
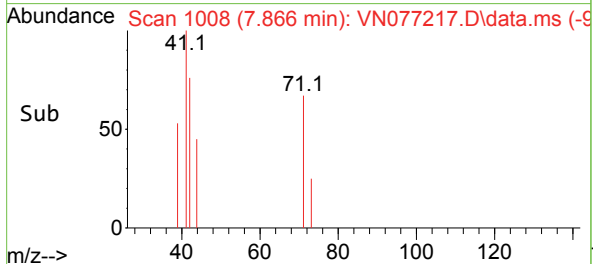
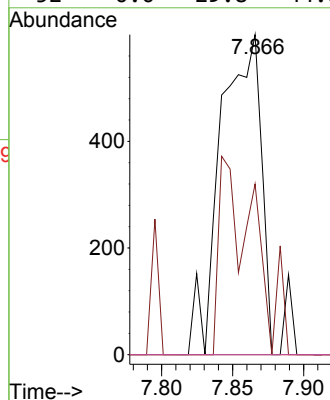
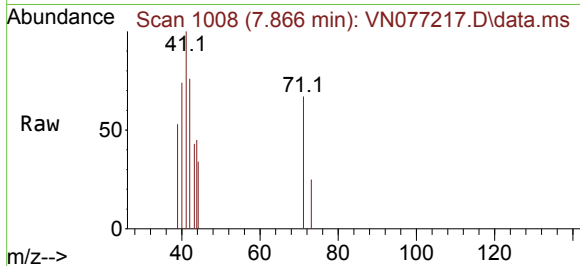




#41
Methacrylonitrile
Concen: 0.297 ug/l
RT: 7.866 min Scan# 1008
Delta R.T. 0.082 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

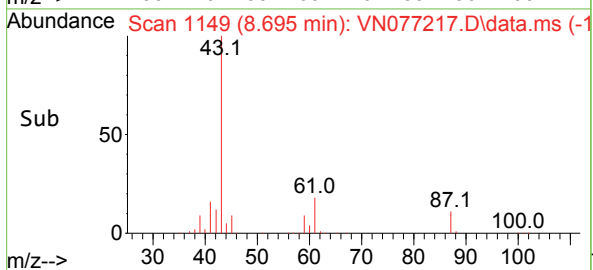
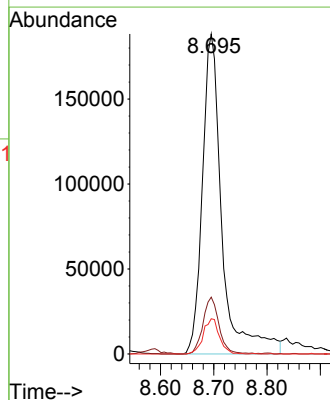
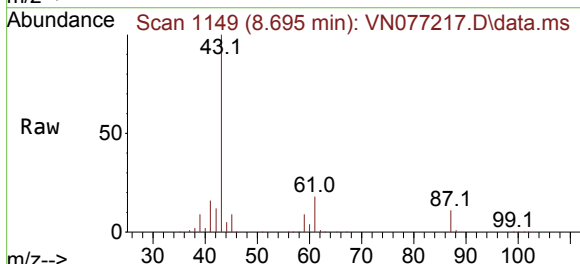
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

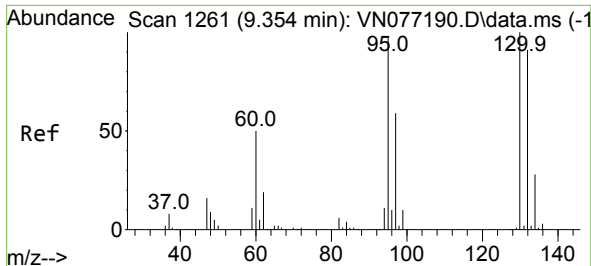
Tgt Ion: 41	Resp: 1187
Ion Ratio	Lower Upper
41 100	
39 0.0	43.4 65.0#
67 0.0	78.6 118.0#
52 0.0	29.8 44.8#



#43
Isopropyl Acetate
Concen: 40.581 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 43	Resp: 478999
Ion Ratio	Lower Upper
43 100	
61 14.6	26.2 39.2#
87 9.1	14.8 22.2#

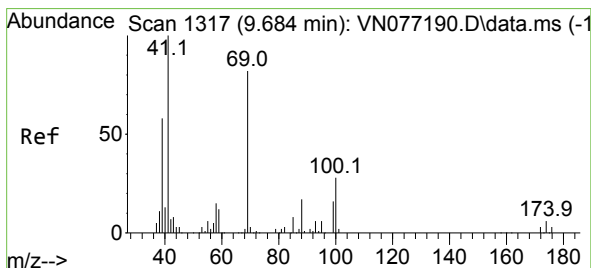
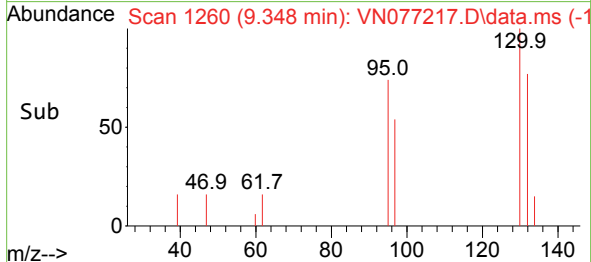
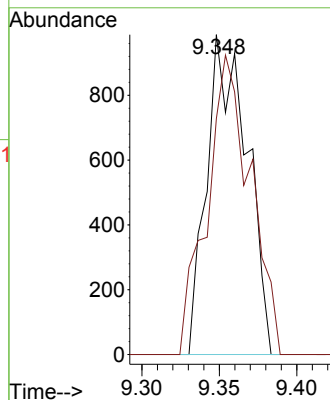
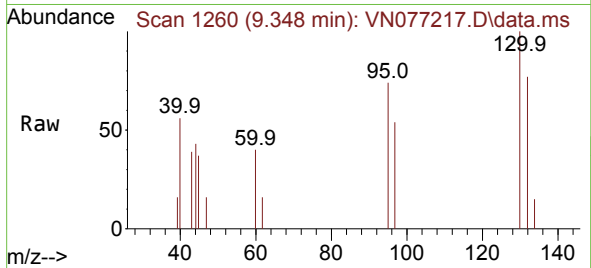




#44
Trichloroethene
Concen: 0.386 ug/l
RT: 9.348 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

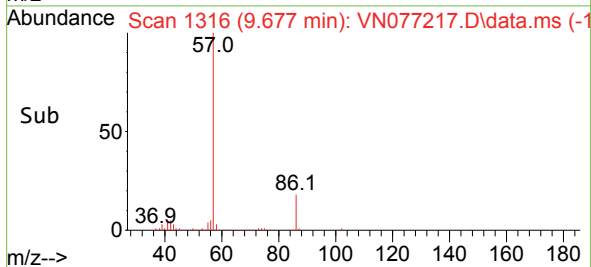
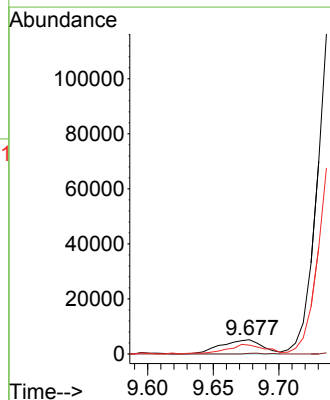
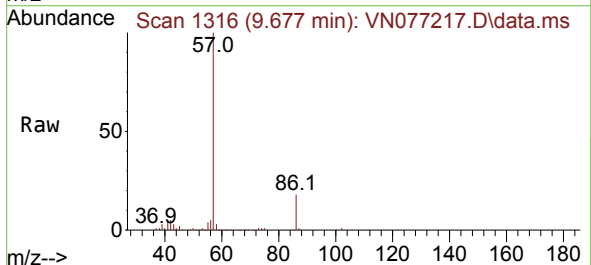
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

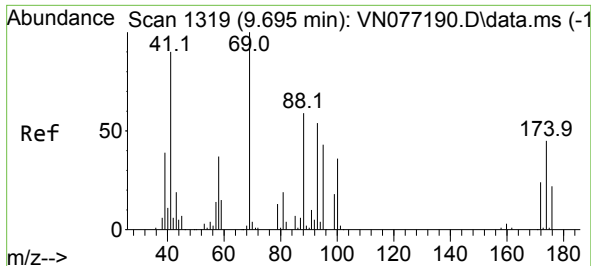
Tgt Ion:130 Resp: 1777
Ion Ratio Lower Upper
130 100
95 73.8 0.0 208.6



#48
Methyl methacrylate
Concen: 2.002 ug/l
RT: 9.677 min Scan# 1316
Delta R.T. -0.007 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 41 Resp: 11378
Ion Ratio Lower Upper
41 100
69 2.1 92.6 139.0#
39 61.4 51.4 77.0





#49

1,4-Dioxane

Concen: 2.405 ug/l

RT: 9.754 min Scan# 1329

Delta R.T. 0.059 min

Lab File: VN077217.D

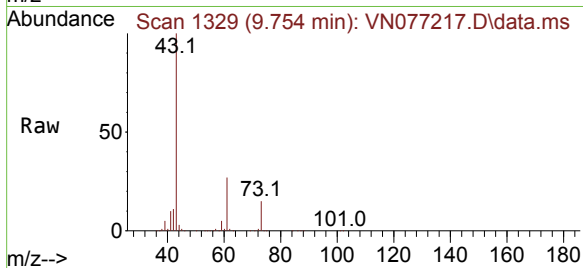
Acq: 27 Mar 2023 21:53

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-A-032223



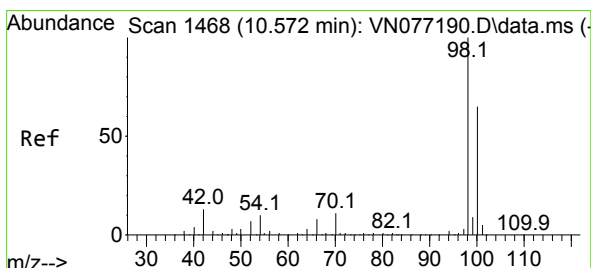
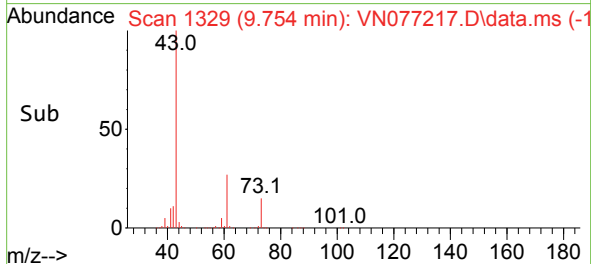
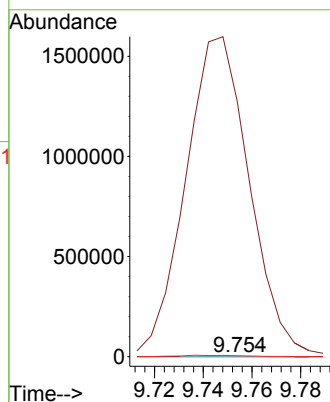
Tgt Ion: 88 Resp: 233

Ion Ratio Lower Upper

88 100

43 1258758.4 15.3 22.9#

58 5951.9 47.6 71.4#



#50

Toluene-d8

Concen: 49.373 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077217.D

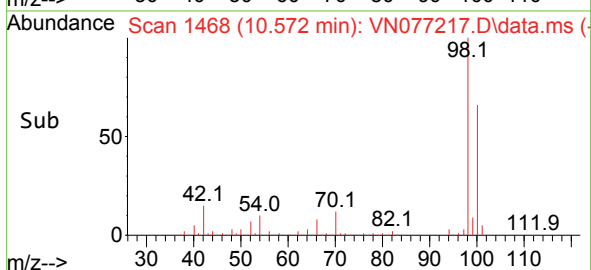
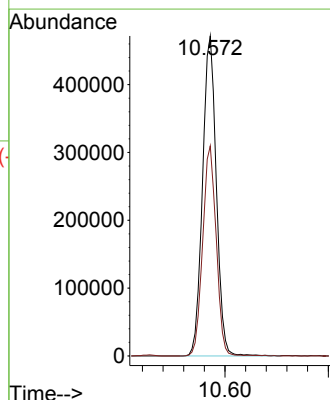
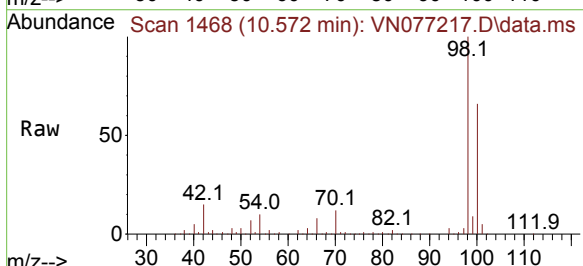
Acq: 27 Mar 2023 21:53

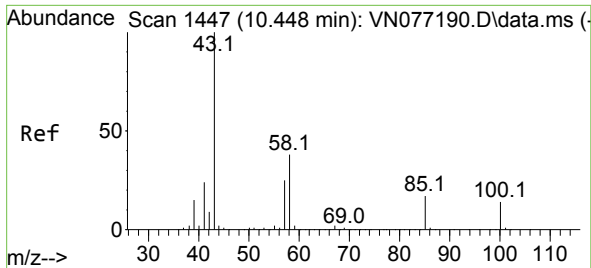
Tgt Ion: 98 Resp: 872506

Ion Ratio Lower Upper

98 100

100 64.2 52.8 79.2

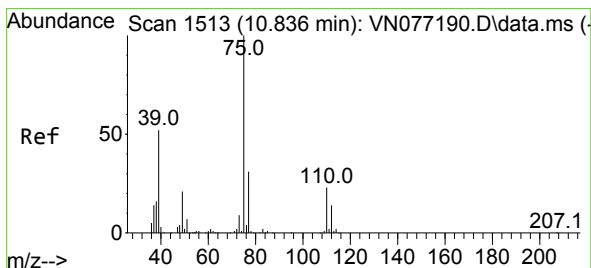
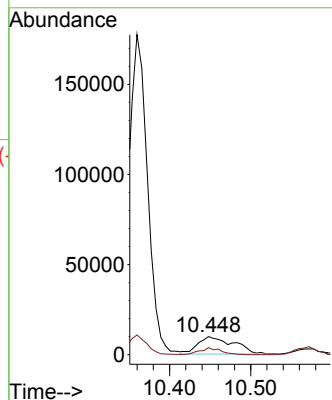
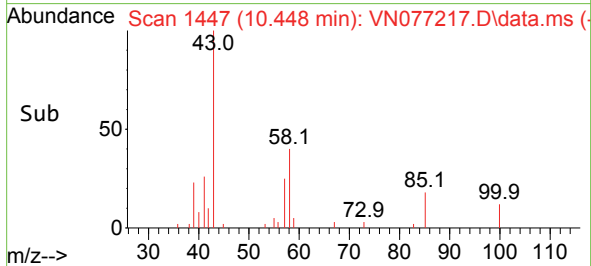
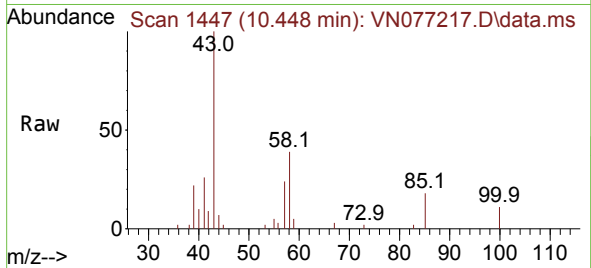




#51
4-Methyl-2-Pentanone
Concen: 4.016 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

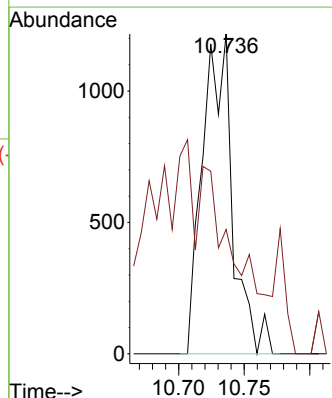
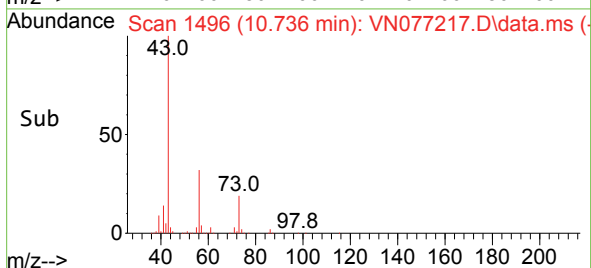
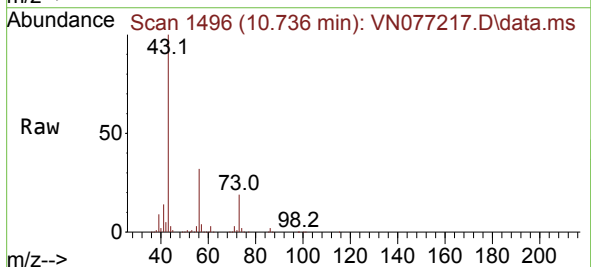
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

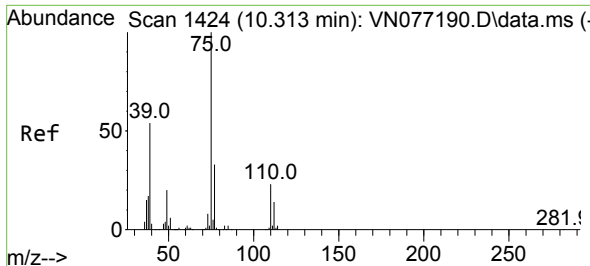
Tgt Ion: 43 Resp: 29823
Ion Ratio Lower Upper
43 100
58 23.7 37.4 56.0#



#53
t-1,3-Dichloropropene
Concen: 0.273 ug/l
RT: 10.736 min Scan# 1496
Delta R.T. -0.100 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 75 Resp: 1928
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#

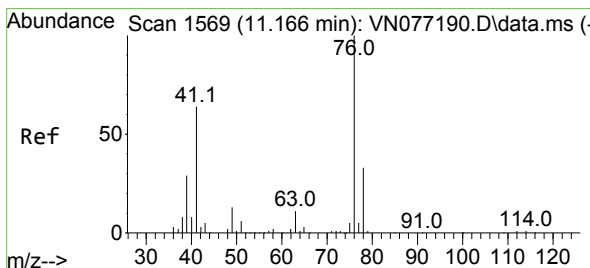
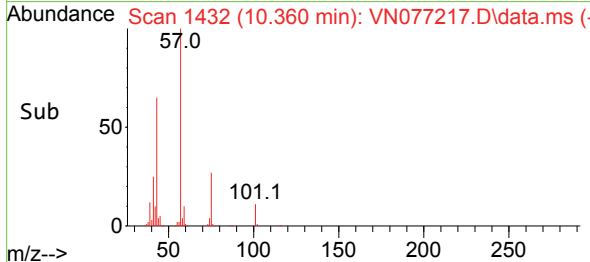
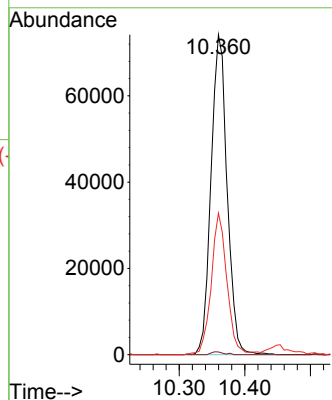
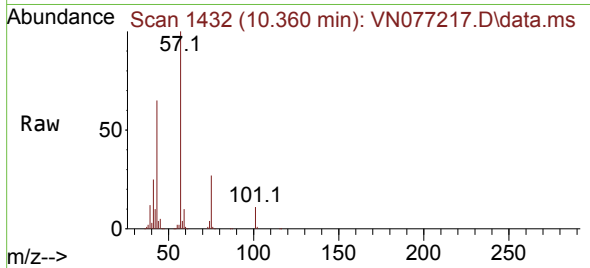




#54
 cis-1,3-Dichloropropene
 Concen: 16.375 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN077217.D
 Acq: 27 Mar 2023 21:53

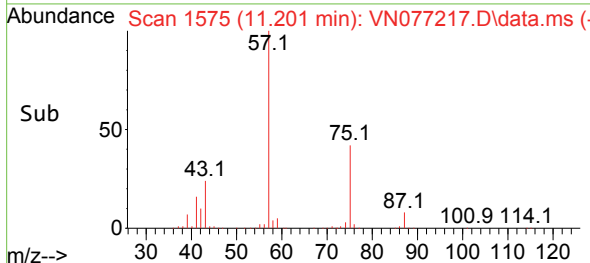
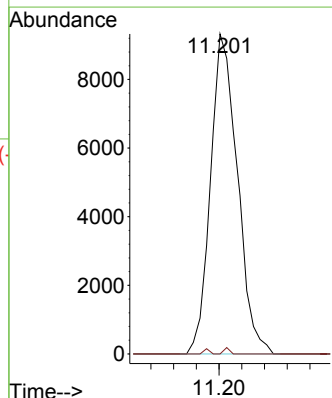
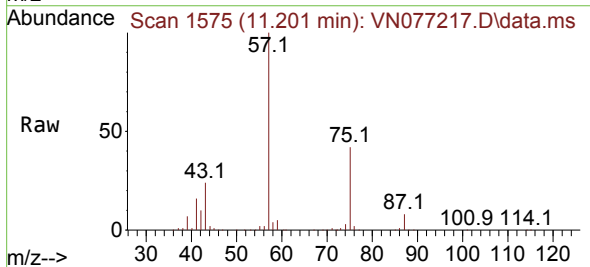
Instrument :
 MSVOA_N
 ClientSampleId :
 152140-TCLP-A-032223

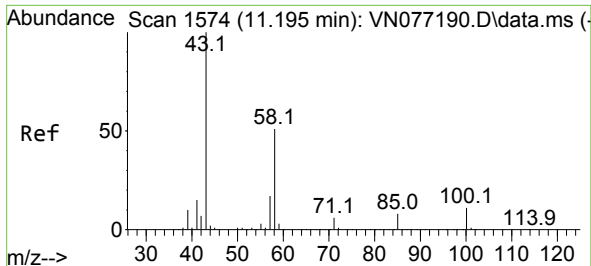
Tgt Ion: 75 Resp: 126463
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.7 38.5#
 39 44.2 29.7 44.5



#57
 1,3-Dichloropropane
 Concen: 1.786 ug/l
 RT: 11.201 min Scan# 1575
 Delta R.T. 0.035 min
 Lab File: VN077217.D
 Acq: 27 Mar 2023 21:53

Tgt Ion: 76 Resp: 15331
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.1 39.1#

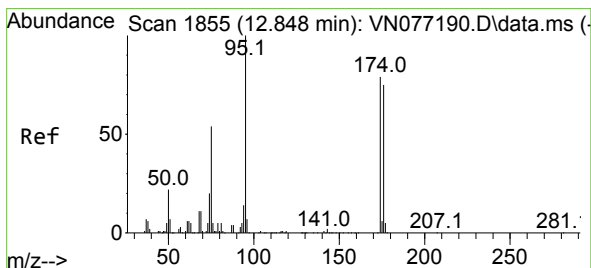
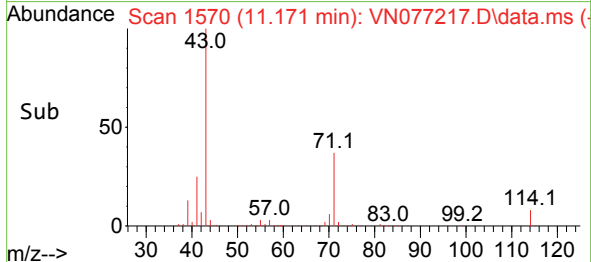
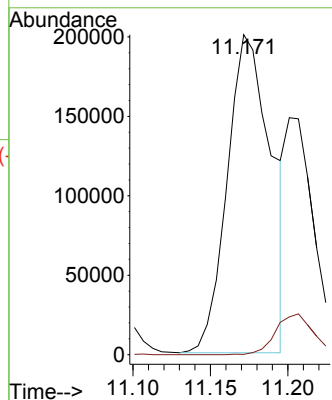
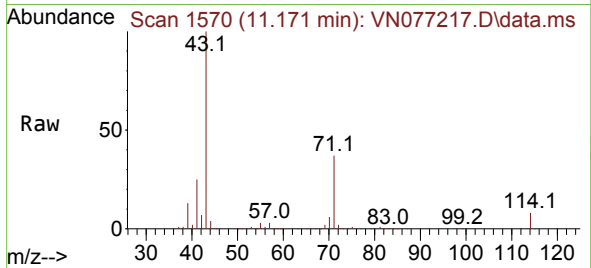




#59
2-Hexanone
Concen: 73.634 ug/l
RT: 11.171 min Scan# 11170
Delta R.T. -0.024 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

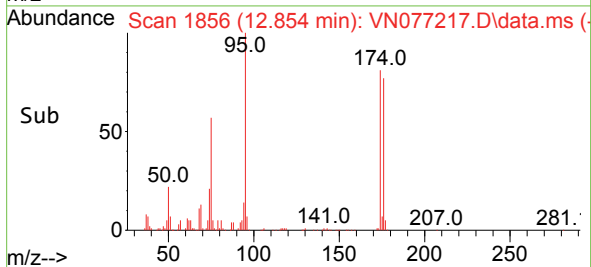
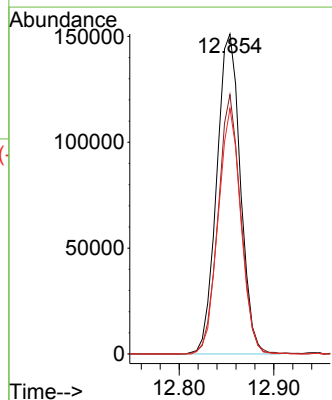
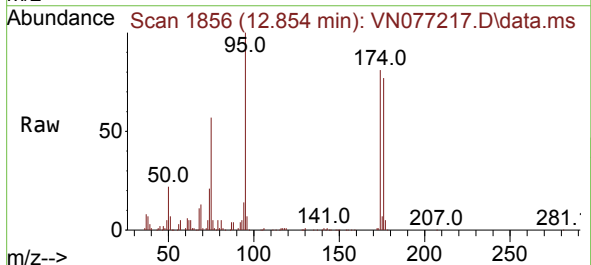
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

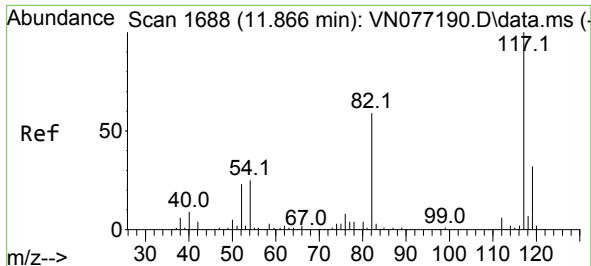
Tgt Ion: 43 Resp: 393012
Ion Ratio Lower Upper
43 100
58 0.0 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 45.349 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion: 95 Resp: 263012
Ion Ratio Lower Upper
95 100
174 77.5 0.0 162.4
176 73.7 0.0 157.4

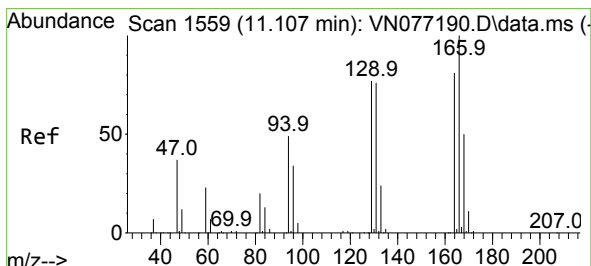
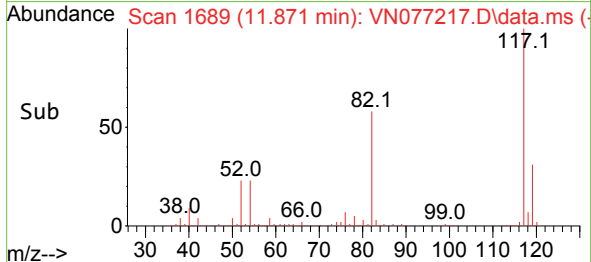
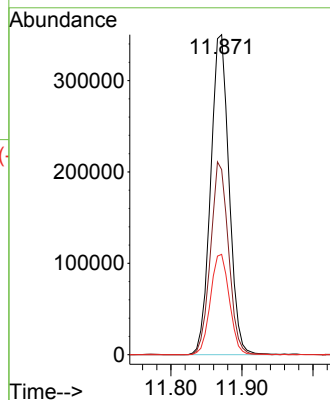
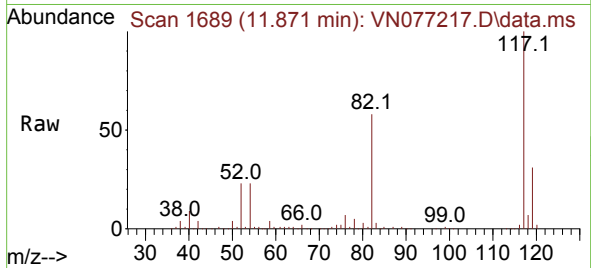




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.005 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

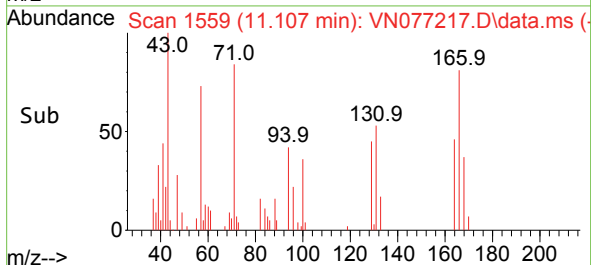
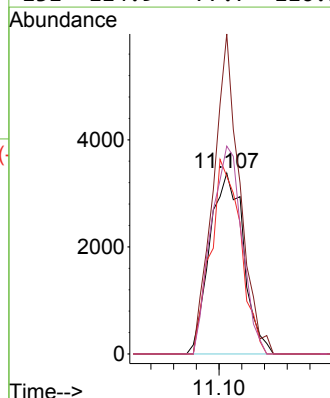
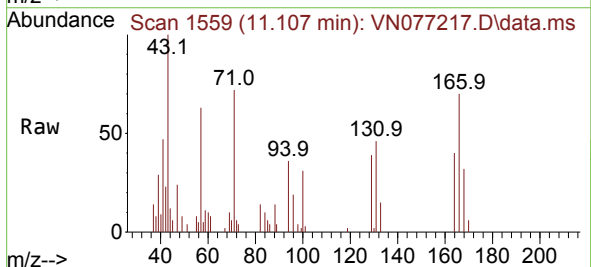
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

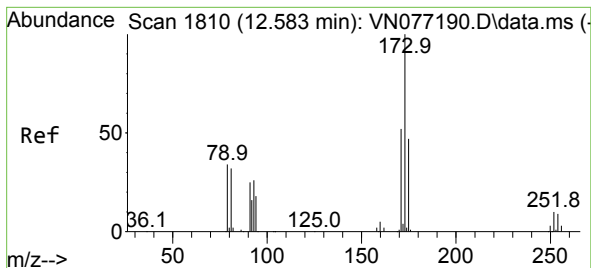
Tgt Ion:117 Resp: 628881
Ion Ratio Lower Upper
117 100
82 57.8 43.5 65.3
119 31.4 25.5 38.3



#64
Tetrachloroethene
Concen: 1.794 ug/l
RT: 11.107 min Scan# 1559
Delta R.T. -0.000 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion:164 Resp: 6998
Ion Ratio Lower Upper
164 100
166 176.9 102.7 154.1#
129 98.3 81.5 122.3
131 114.9 77.7 116.5





#71

Bromoform

Concen: 0.529 ug/l

RT: 12.848 min Scan# 1810

Delta R.T. 0.265 min

Lab File: VN077217.D

Acq: 27 Mar 2023 21:53

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-A-032223

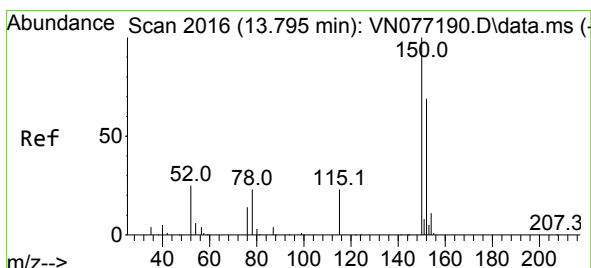
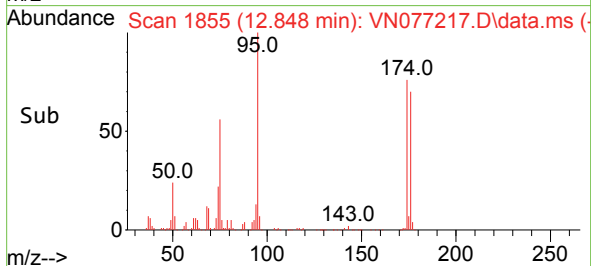
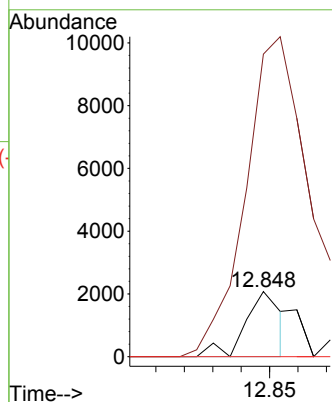
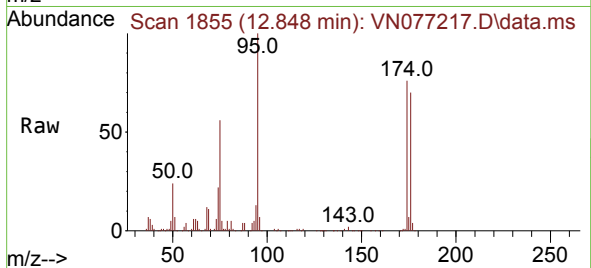
Tgt Ion:173 Resp: 1815

Ion Ratio Lower Upper

173 100

175 709.3 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: VN077217.D

Acq: 27 Mar 2023 21:53

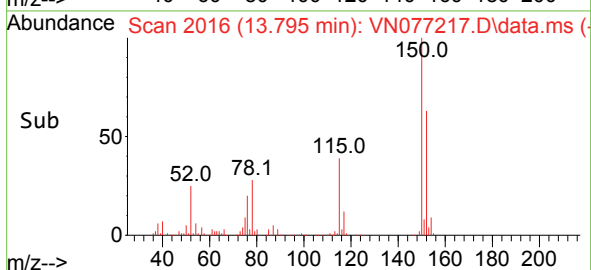
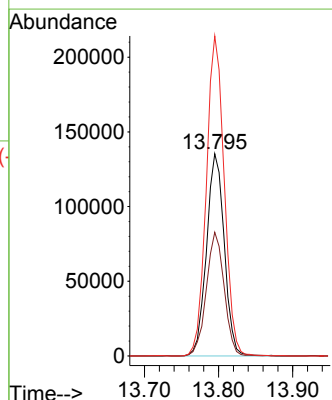
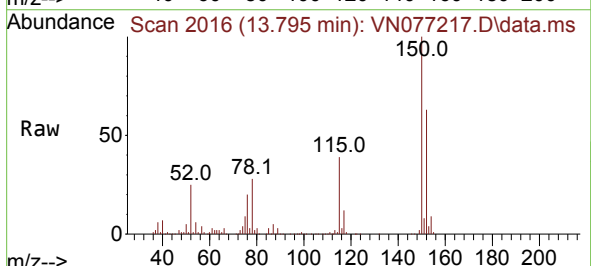
Tgt Ion:152 Resp: 225843

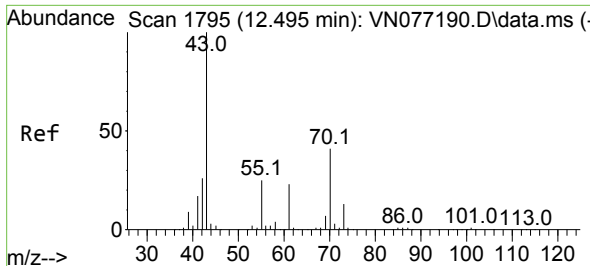
Ion Ratio Lower Upper

152 100

115 61.5 30.3 90.9

150 159.1 0.0 353.6

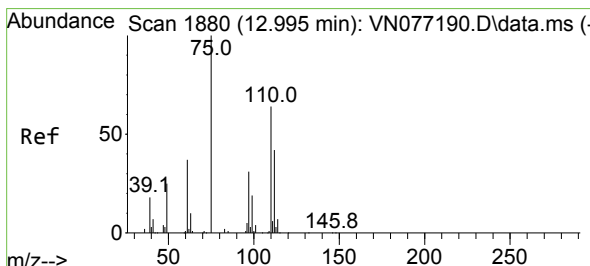
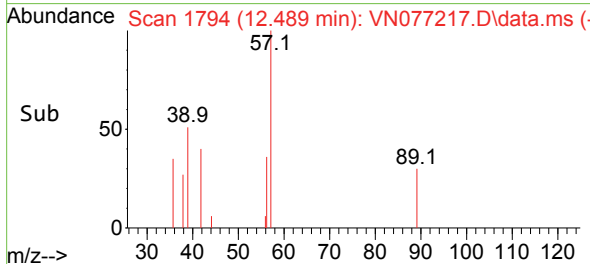
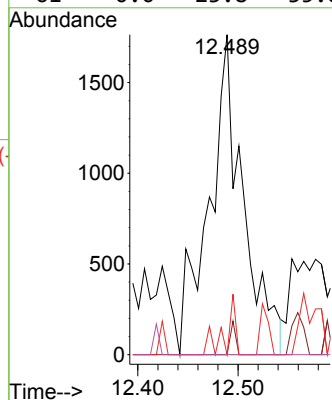
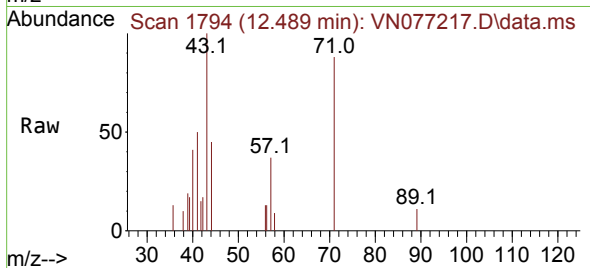




#74
N-amy1 acetate
Concen: 0.537 ug/l
RT: 12.489 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

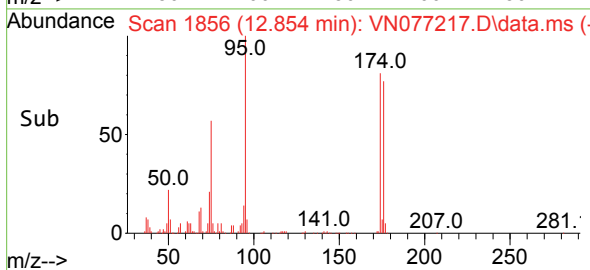
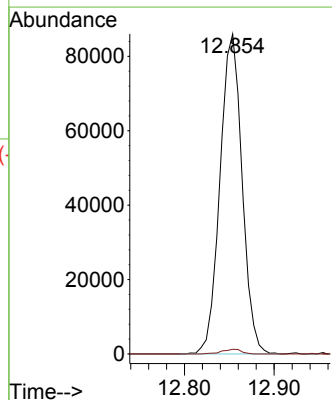
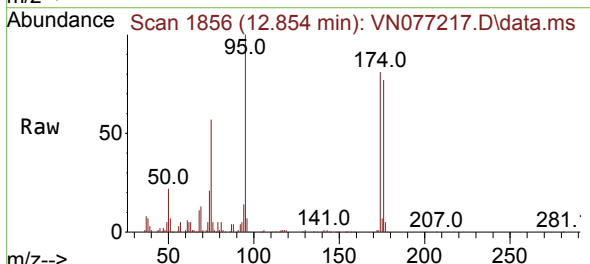
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

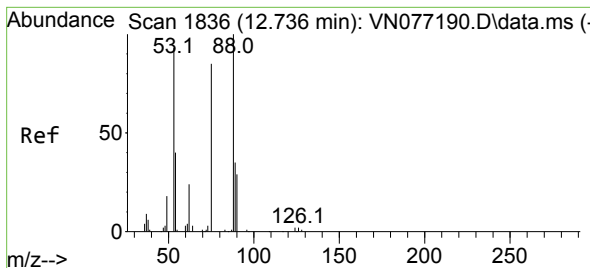
Tgt Ion:	43	Resp:	4157
Ion	Ratio	Lower	Upper
43	100		
70	1.6	46.8	70.2#
55	4.1	23.4	35.2#
61	0.0	23.8	35.8#



#76
1,2,3-Trichloropropane
Concen: 32.100 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

Tgt Ion:	75	Resp:	147062
Ion	Ratio	Lower	Upper
75	100		
77	1.3	93.8	281.4#

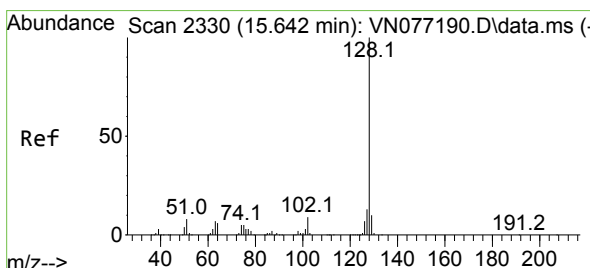
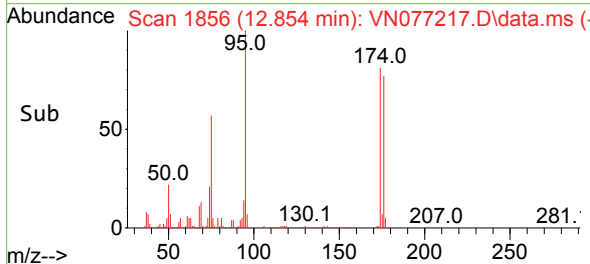
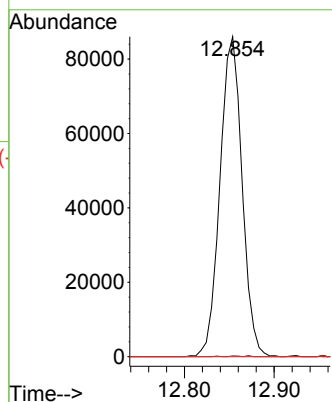
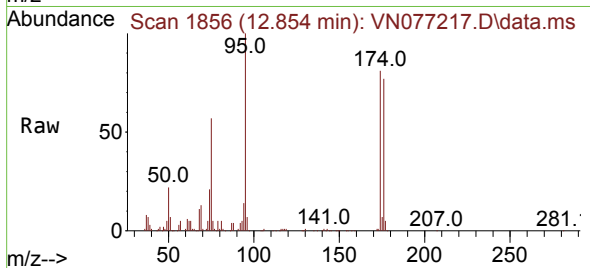




#81
trans-1,4-Dichloro-2-butene
Concen: 92.516 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

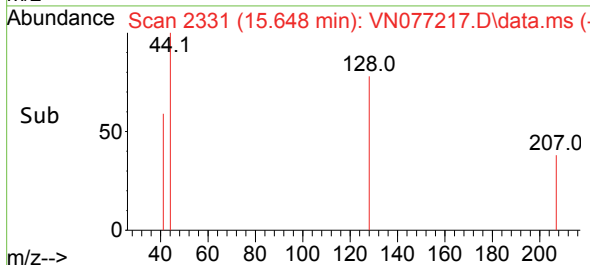
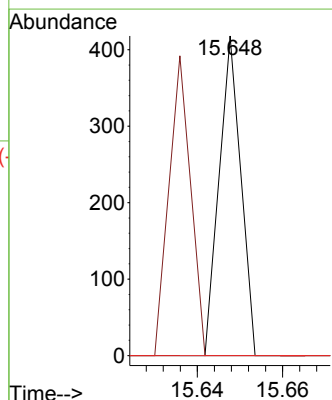
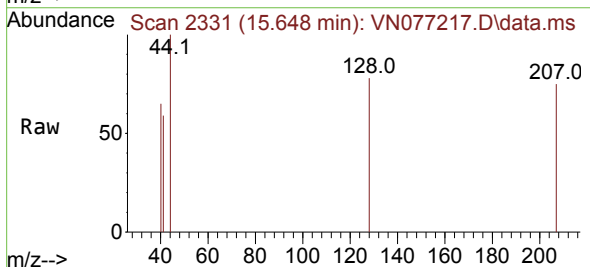
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-A-032223

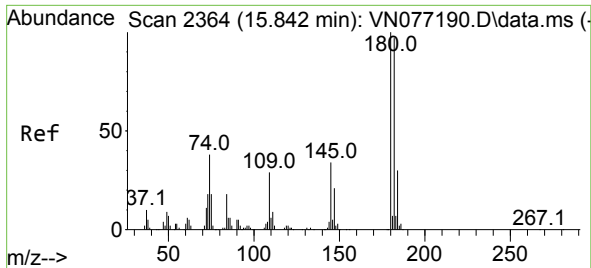
Tgt Ion: 75 Resp: 147062
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.0#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 5.926 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077217.D
Acq: 27 Mar 2023 21:53

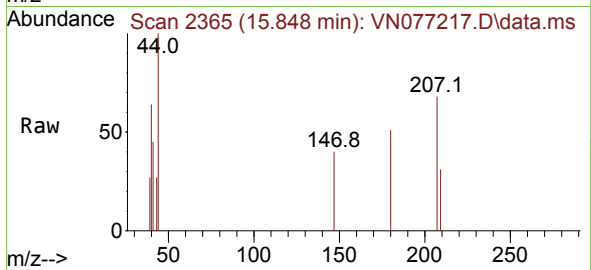
Tgt Ion:128 Resp: 147
Ion Ratio Lower Upper
128 100
127 93.9 10.2 15.4#
129 0.0 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 4.675 ug/l
 RT: 15.848 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN077217.D
 Acq: 27 Mar 2023 21:53

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



Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.7	143.1#
145	0.0	17.0	51.0#

