

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077219.D
 Acq On : 27 Mar 2023 22:41
 Operator : JC\MD
 Sample : 02081-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

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

Quant Time: Mar 28 07:46:51 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)

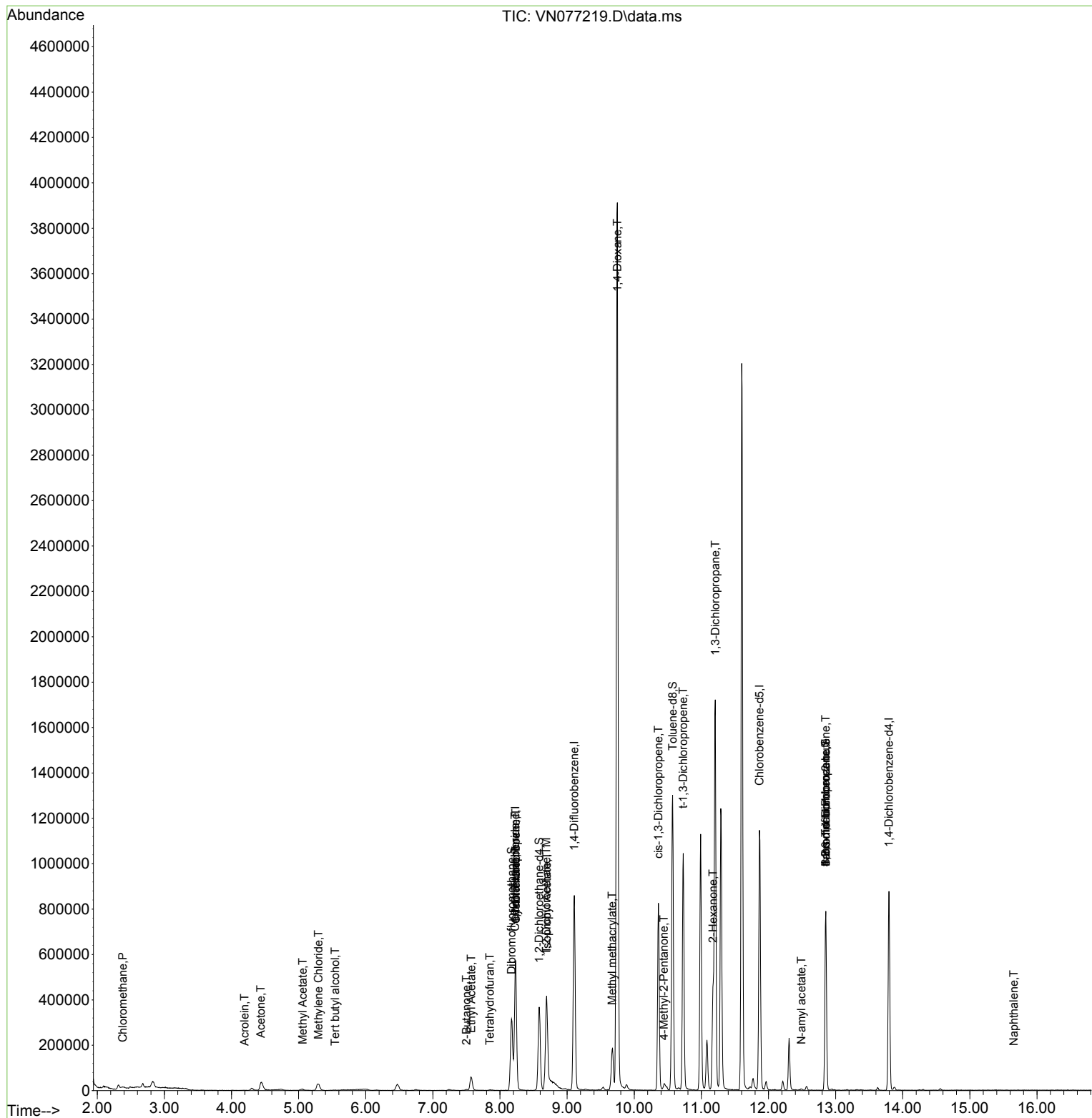
Internal Standards						
1) Pentafluorobenzene	8.231	168	395022	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	706558	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	633057	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	225205	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	298911	48.396	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.800%		
35) Dibromofluoromethane	8.172	113	224463	46.818	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.640%		
50) Toluene-d8	10.572	98	878375	48.895	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.780%		
62) 4-Bromofluorobenzene	12.854	95	253645	43.021	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	86.040%		
Target Compounds						Qvalue
3) Chloromethane	2.378	50	1289	0.223	ug/l #	78
11) Tert butyl alcohol	5.543	59	282	0.335	ug/l #	72
13) Acrolein	4.196	56	287	0.243	ug/l	93
16) Acetone	4.437	43	72608	31.617	ug/l	91
18) Methyl Acetate	5.060	43	12625	1.374	ug/l #	70
20) Methylene Chloride	5.296	84	22468	4.394	ug/l #	86
25) 2-Butanone	7.501	43	7015	1.954	ug/l #	72
29) Tetrahydrofuran	7.848	42	882	0.371	ug/l	89
31) Cyclohexane	8.237	56	11041	1.287	ug/l #	54
36) 1,1-Dichloropropene	8.237	75	35481	5.317	ug/l #	49
37) Ethyl Acetate	7.572	43	94471	12.702	ug/l #	92
38) Carbon Tetrachloride	8.225	117	42233	6.242	ug/l #	15
42) 1,2-Dichloroethane	8.689	62	2907	0.377	ug/l #	71
43) Isopropyl Acetate	8.695	43	524091	43.678	ug/l #	72
48) Methyl methacrylate	9.672	41	14725	2.548	ug/l #	3
49) 1,4-Dioxane	9.748	88	533	5.411	ug/l #	1
51) 4-Methyl-2-Pentanone	10.442	43	19479	2.580	ug/l #	82
53) t-1,3-Dichloropropene	10.730	75	2570	0.358	ug/l #	72
54) cis-1,3-Dichloropropene	10.360	75	136328	17.364	ug/l #	73
57) 1,3-Dichloropropane	11.207	76	17169	1.967	ug/l #	42
59) 2-Hexanone	11.172	43	360712	66.480	ug/l #	17
71) Bromoform	12.854	173	2364	0.685	ug/l #	1
74) N-amyl acetate	12.489	43	2674	0.346	ug/l #	33
76) 1,2,3-Trichloropropane	12.854	75	144723	31.679	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	144723	91.302	ug/l #	15
95) Naphthalene	15.654	128	397	5.944	ug/l #	69

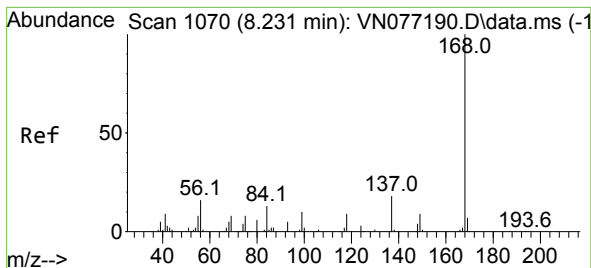
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

Instrument :

MSVOA_N

ClientSampleId :

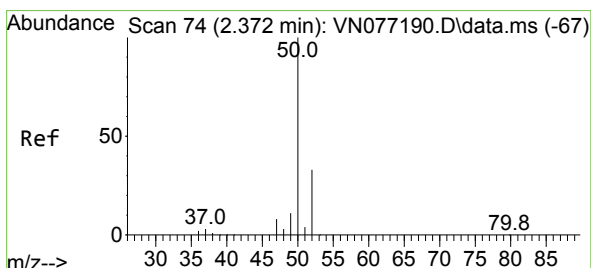
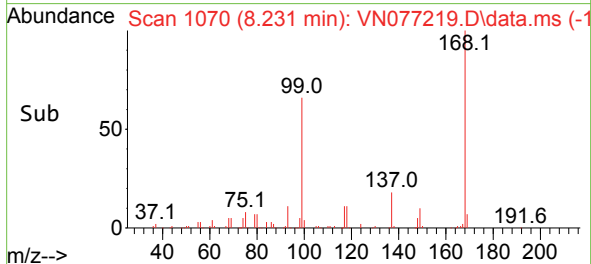
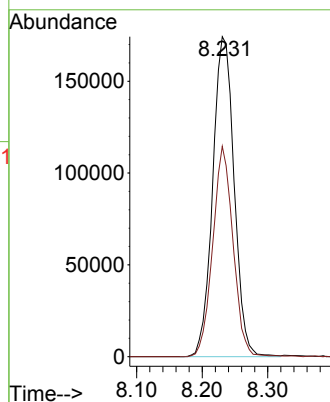
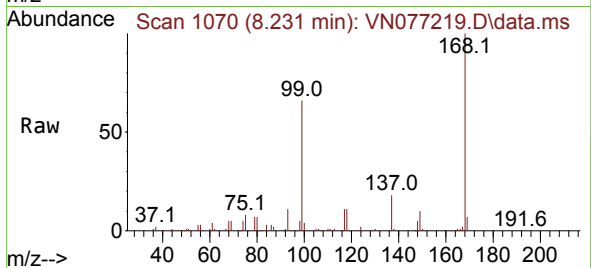
152140-TCLP-C-032223

Tgt Ion:168 Resp: 395022

Ion Ratio Lower Upper

168 100

99 65.7 48.6 73.0



#3

Chloromethane

Concen: 0.223 ug/l

RT: 2.378 min Scan# 75

Delta R.T. 0.006 min

Lab File: VN077219.D

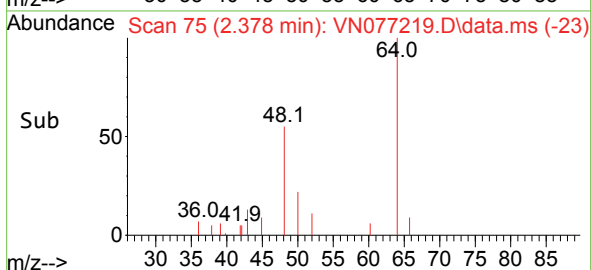
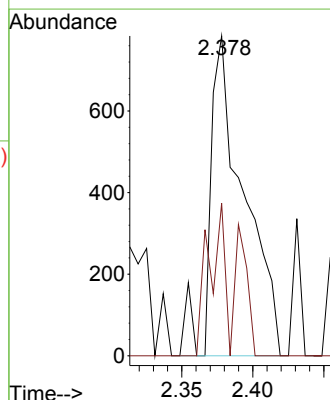
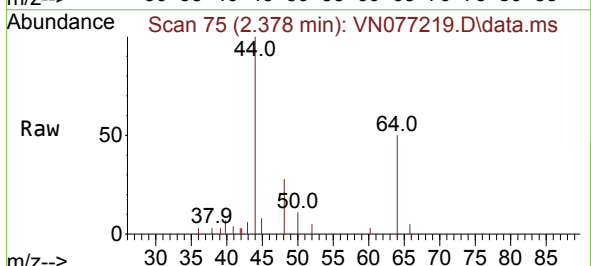
Acq: 27 Mar 2023 22:41

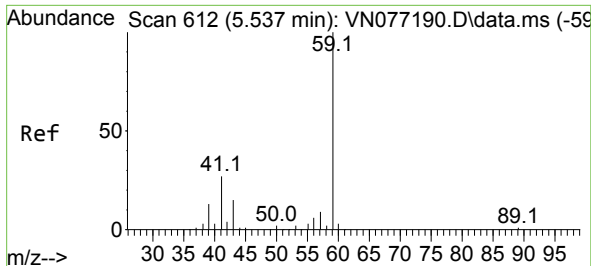
Tgt Ion: 50 Resp: 1289

Ion Ratio Lower Upper

50 100

52 47.7 27.9 41.9#

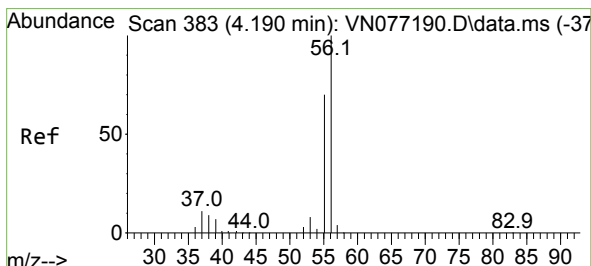
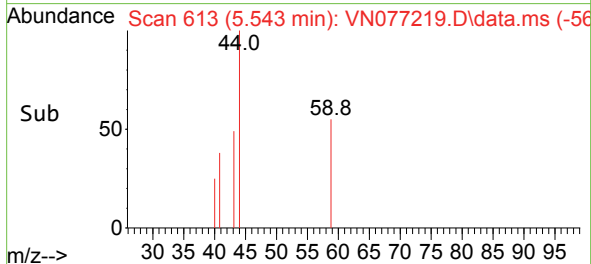
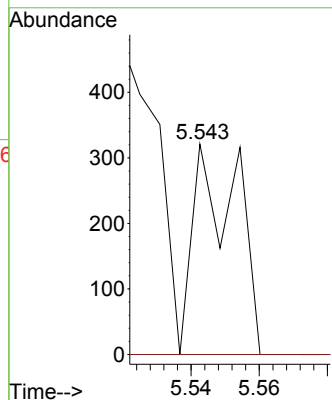
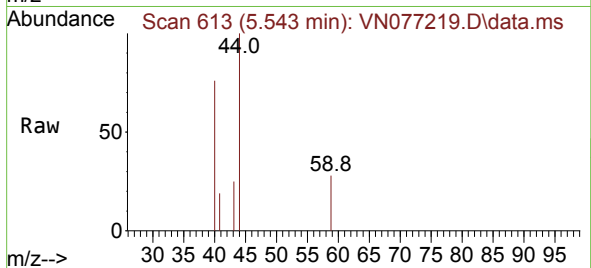




#11
Tert butyl alcohol
Concen: 0.335 ug/l
RT: 5.543 min Scan# 612
Delta R.T. 0.006 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

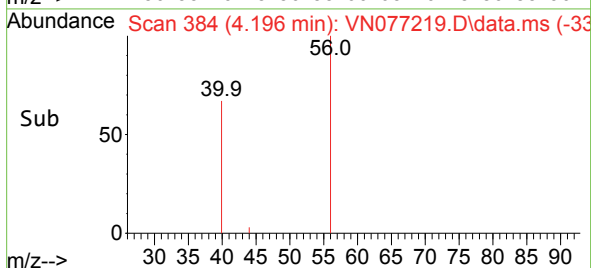
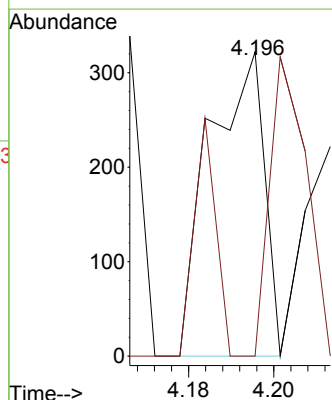
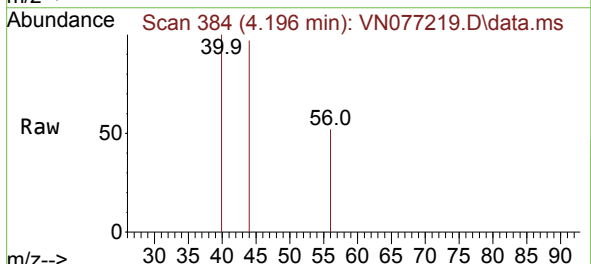
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-C-032223

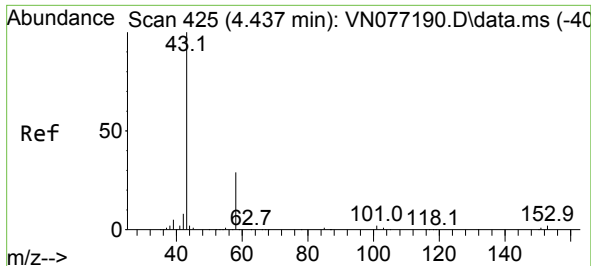
Tgt Ion: 59 Resp: 282
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.243 ug/l
RT: 4.196 min Scan# 384
Delta R.T. 0.006 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion: 56 Resp: 287
Ion Ratio Lower Upper
56 100
55 65.5 56.7 85.1

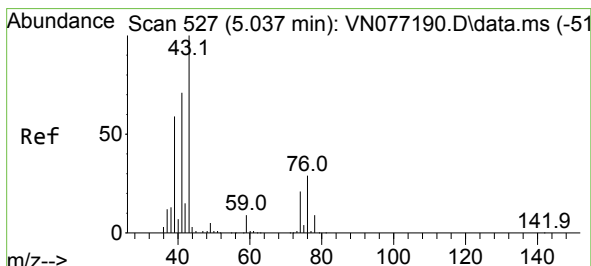
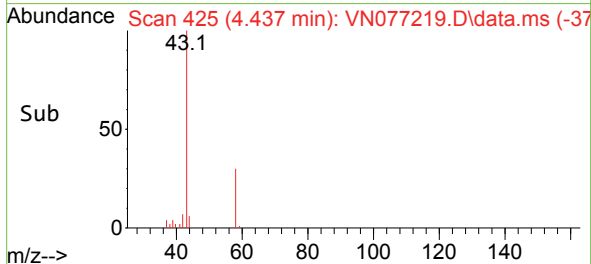
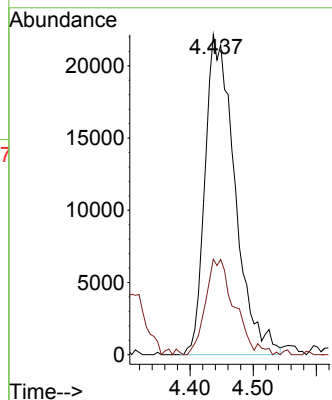
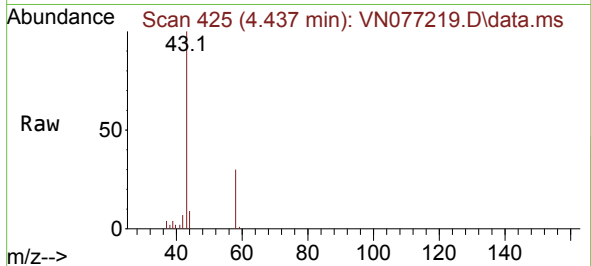




#16
Acetone
Concen: 31.617 ug/l
RT: 4.437 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

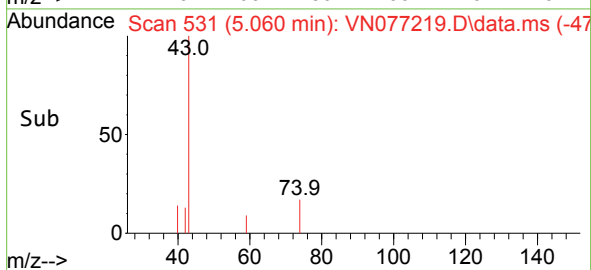
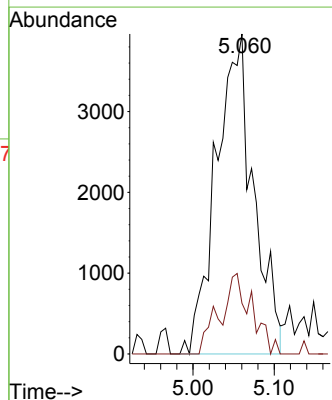
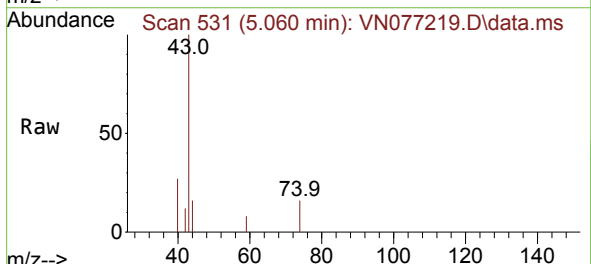
Instrument :
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ClientSampleId :
152140-TCLP-C-032223

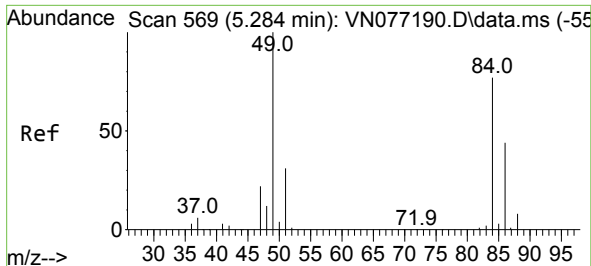
Tgt Ion: 43 Resp: 72608
Ion Ratio Lower Upper
43 100
58 29.9 28.2 42.2



#18
Methyl Acetate
Concen: 1.374 ug/l
RT: 5.060 min Scan# 531
Delta R.T. 0.023 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion: 43 Resp: 12625
Ion Ratio Lower Upper
43 100
74 15.8 25.9 38.9#

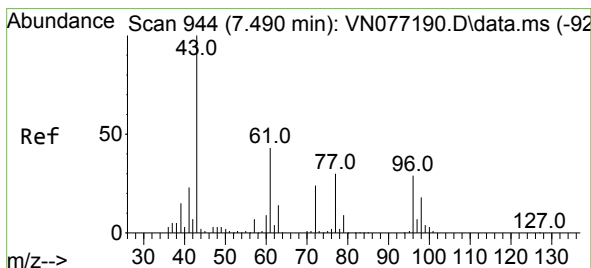
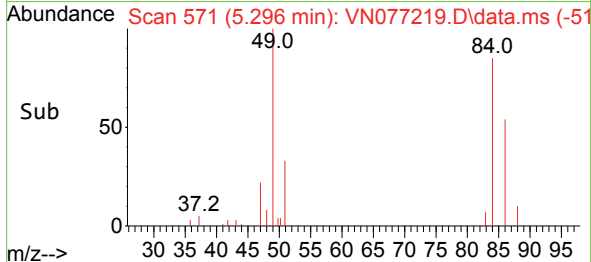
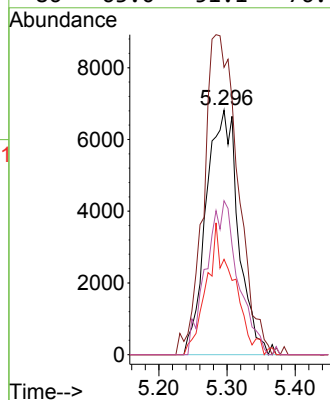
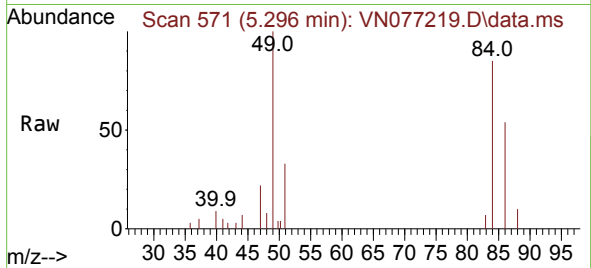




#20
Methylene Chloride
Concen: 4.394 ug/l
RT: 5.296 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

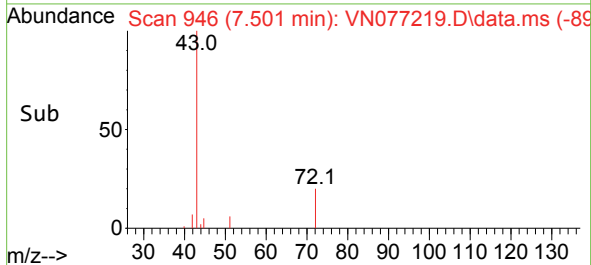
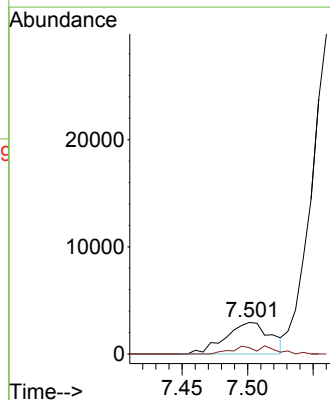
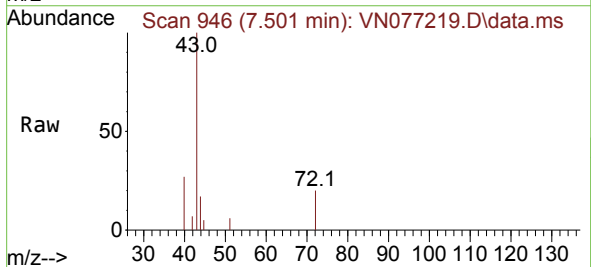
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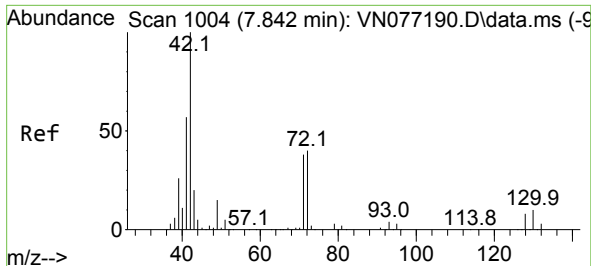
Tgt Ion:	84	Resp:	22468
Ion	Ratio	Lower	Upper
84	100		
49	117.6	76.6	114.8#
51	39.0	25.4	38.2#
86	63.0	51.1	76.7



#25
2-Butanone
Concen: 1.954 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.011 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion:	43	Resp:	7015
Ion	Ratio	Lower	Upper
43	100		
72	19.7	28.8	43.2#

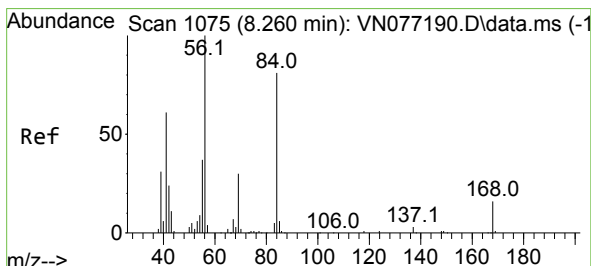
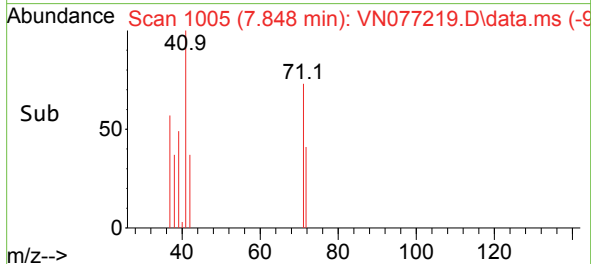
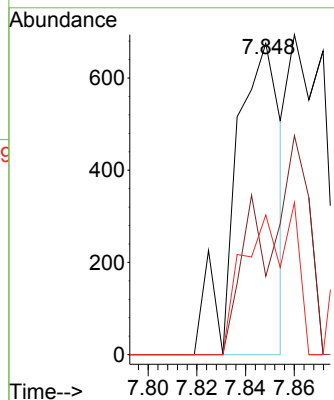
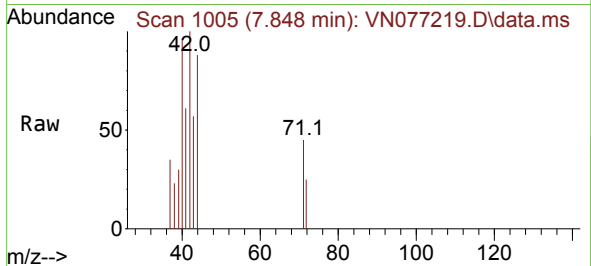




#29
Tetrahydrofuran
Concen: 0.371 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

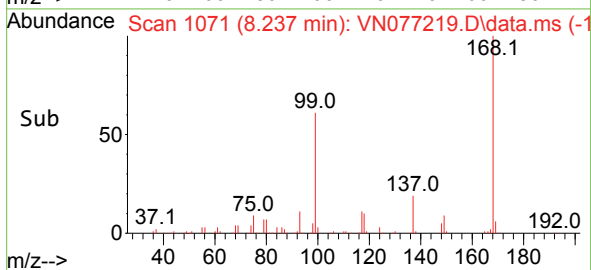
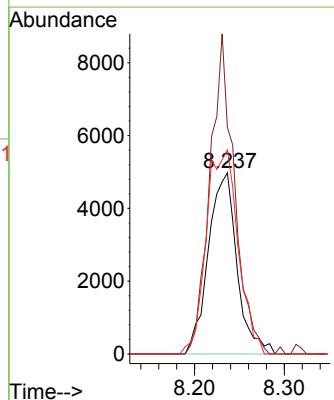
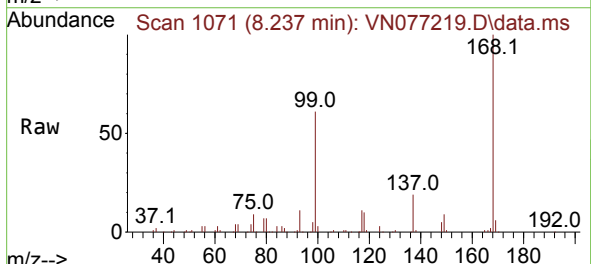
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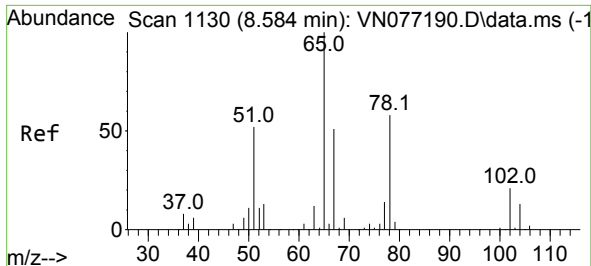
Tgt Ion: 42 Resp: 882
Ion Ratio Lower Upper
42 100
72 70.9 48.6 73.0
71 50.0 45.1 67.7



#31
Cyclohexane
Concen: 1.287 ug/l
RT: 8.237 min Scan# 1071
Delta R.T. -0.023 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion: 56 Resp: 11041
Ion Ratio Lower Upper
56 100
69 125.1 27.0 40.6#
84 112.6 82.9 124.3





#33

1,2-Dichloroethane-d4

Concen: 48.396 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

Instrument :

MSVOA_N

ClientSampleId :

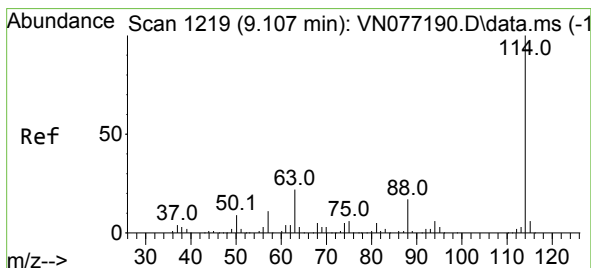
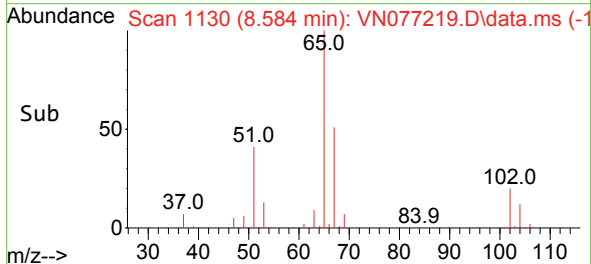
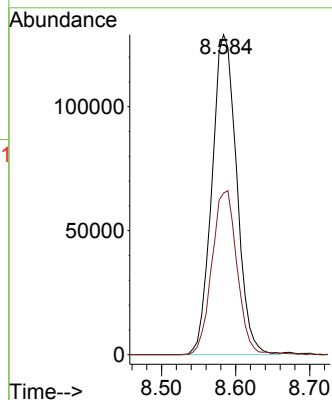
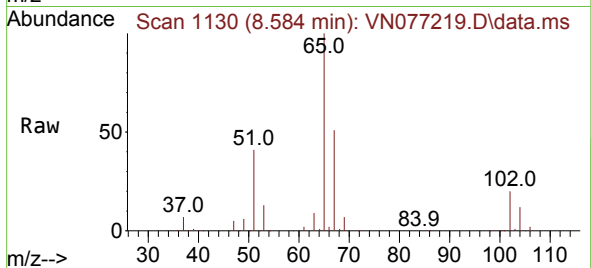
152140-TCLP-C-032223

Tgt Ion: 65 Resp: 298911

Ion Ratio Lower Upper

65 100

67 52.3 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: VN077219.D

Acq: 27 Mar 2023 22:41

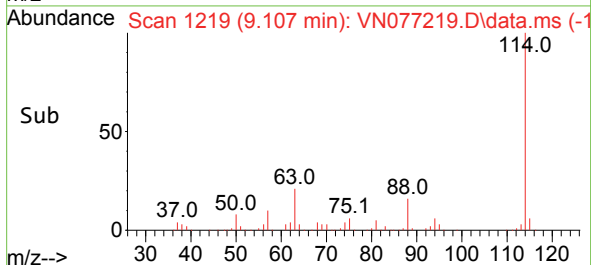
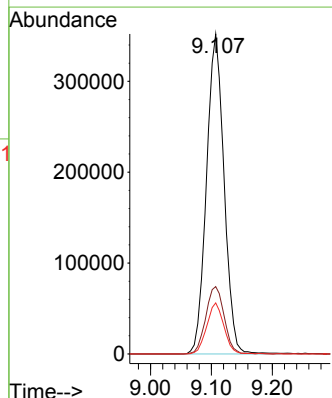
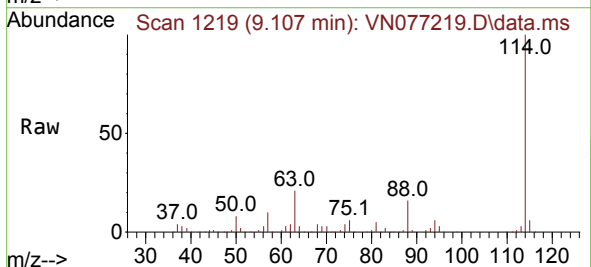
Tgt Ion: 114 Resp: 706558

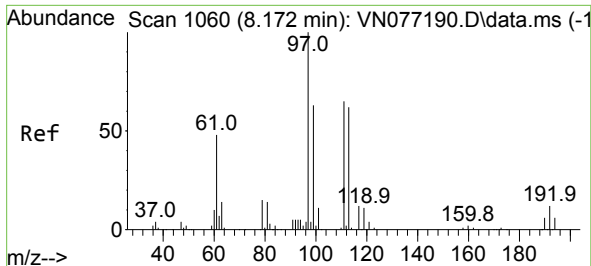
Ion Ratio Lower Upper

114 100

63 21.0 0.0 36.6

88 15.9 0.0 28.6





#35

Dibromofluoromethane

Concen: 46.818 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-C-032223

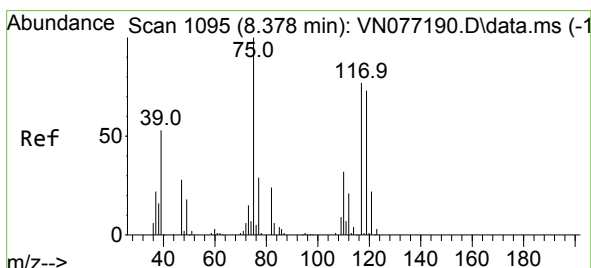
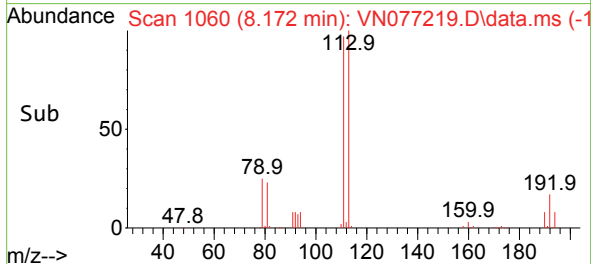
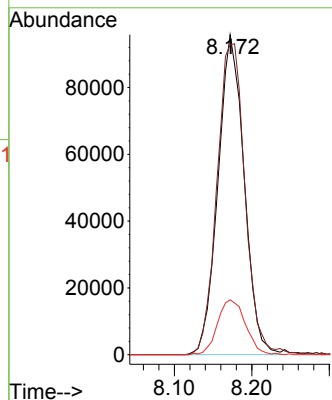
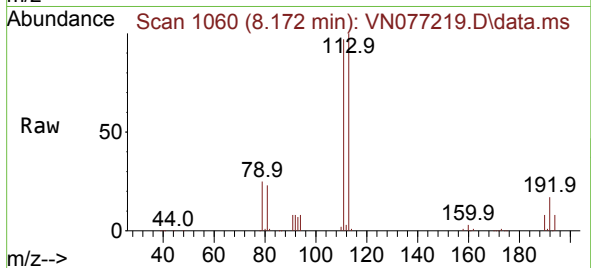
Tgt Ion:113 Resp: 224463

Ion Ratio Lower Upper

113 100

111 104.3 81.8 122.8

192 18.4 13.9 20.9



#36

1,1-Dichloropropene

Concen: 5.317 ug/l

RT: 8.237 min Scan# 1071

Delta R.T. -0.141 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

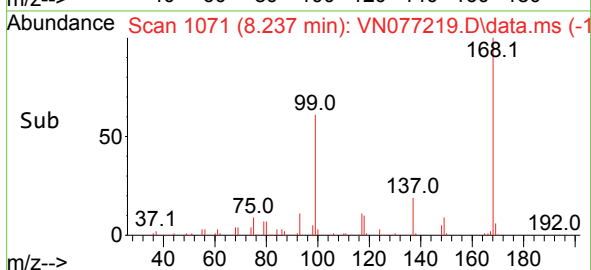
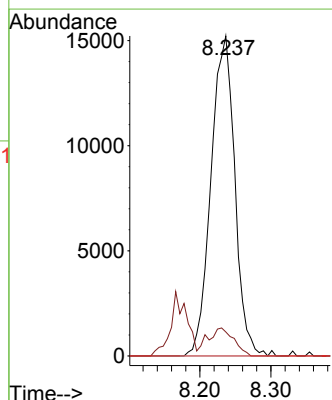
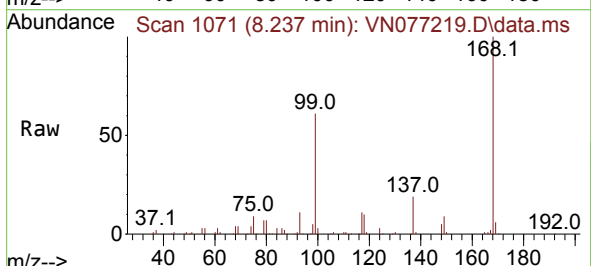
Tgt Ion: 75 Resp: 35481

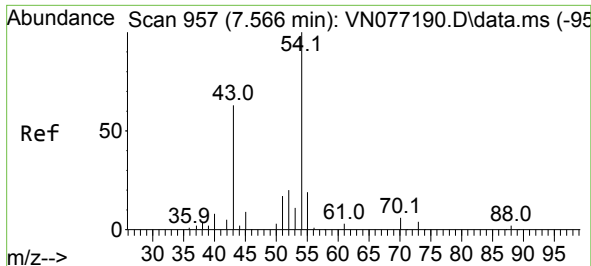
Ion Ratio Lower Upper

75 100

110 9.5 18.9 56.9#

77 0.0 24.9 37.3#

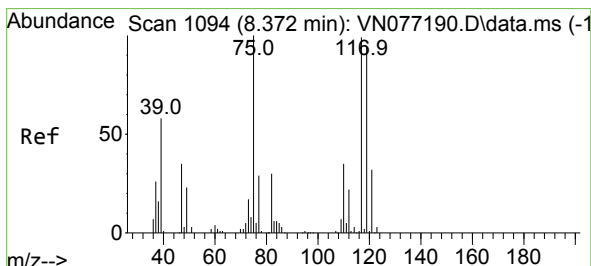
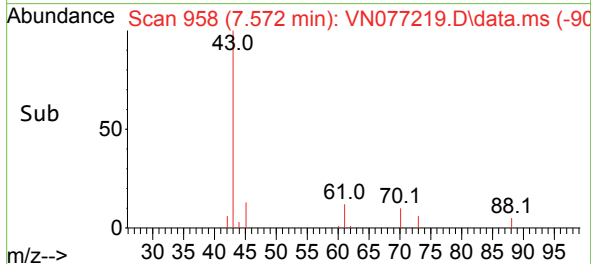
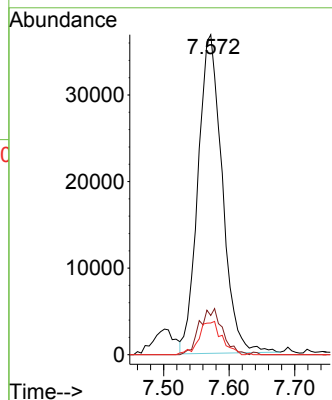
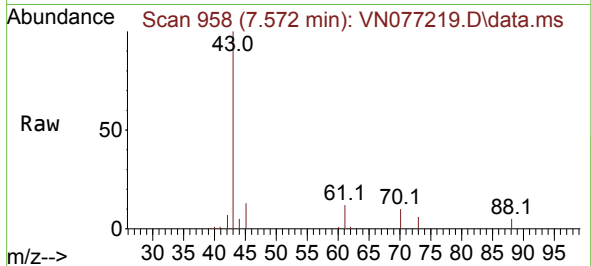




#37
Ethyl Acetate
Concen: 12.702 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

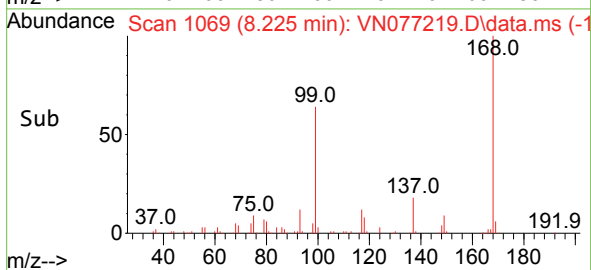
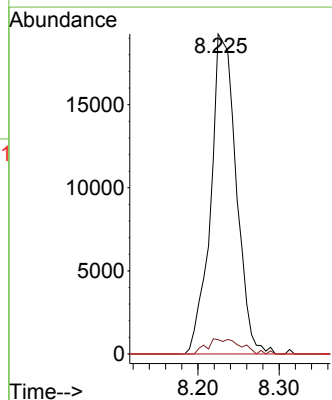
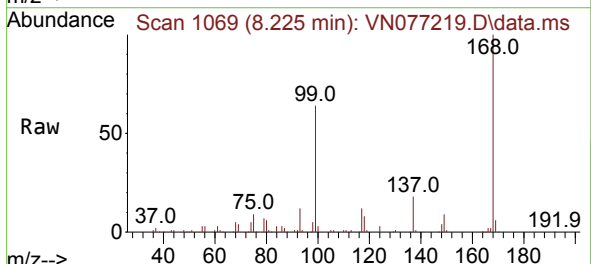
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-C-032223

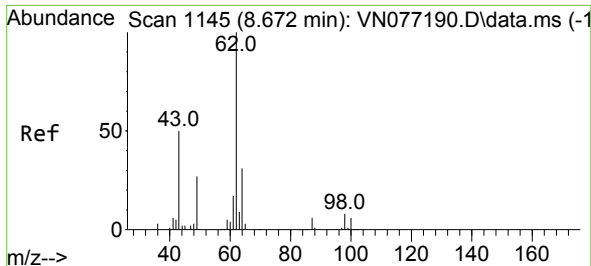
Tgt Ion: 43 Resp: 94471
Ion Ratio Lower Upper
43 100
61 13.8 13.5 20.3
70 9.9 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 6.242 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.147 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion: 117 Resp: 42233
Ion Ratio Lower Upper
117 100
119 4.5 76.9 115.3#
121 0.0 23.2 34.8#





#42

1,2-Dichloroethane

Concen: 0.377 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.017 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

Instrument :

MSVOA_N

ClientSampleId :

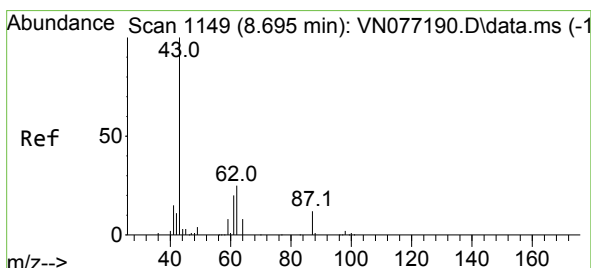
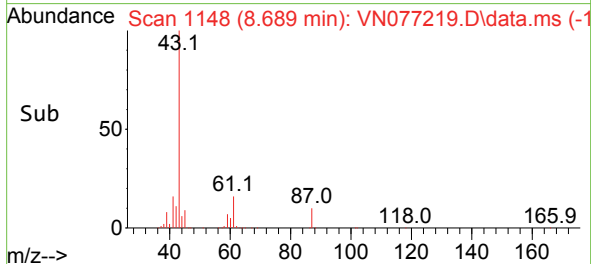
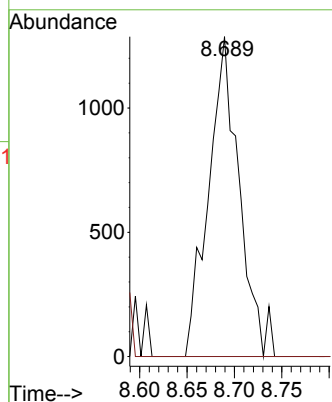
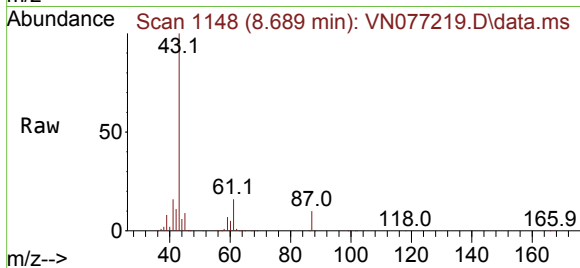
152140-TCLP-C-032223

Tgt Ion: 62 Resp: 2907

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.8



#43

Isopropyl Acetate

Concen: 43.678 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

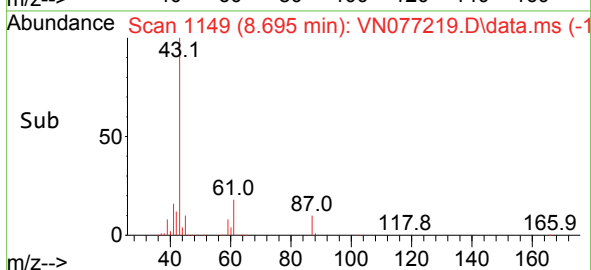
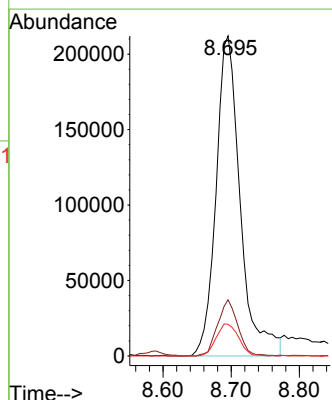
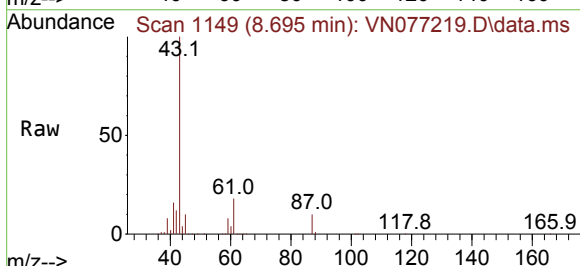
Tgt Ion: 43 Resp: 524091

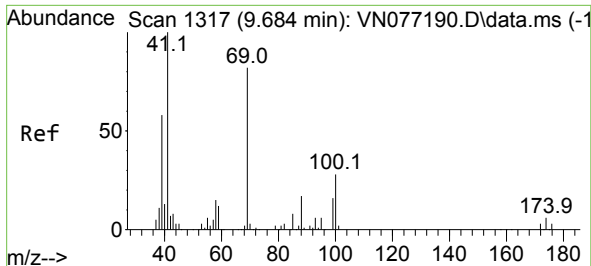
Ion Ratio Lower Upper

43 100

61 14.7 26.2 39.2#

87 9.3 14.8 22.2#

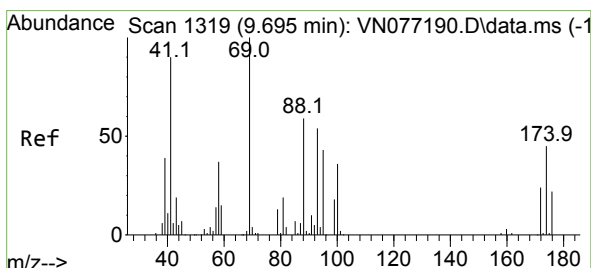
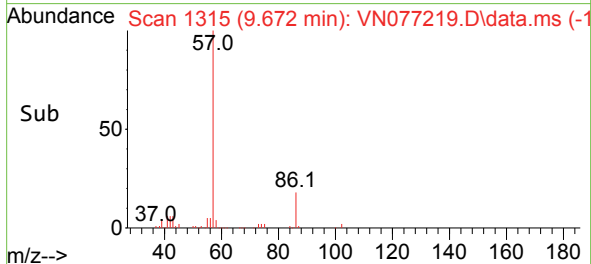
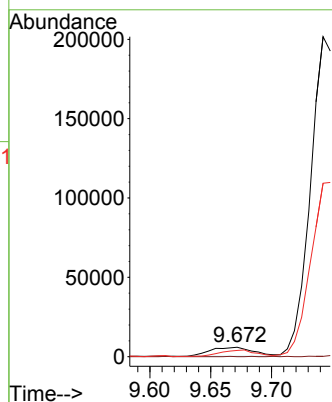
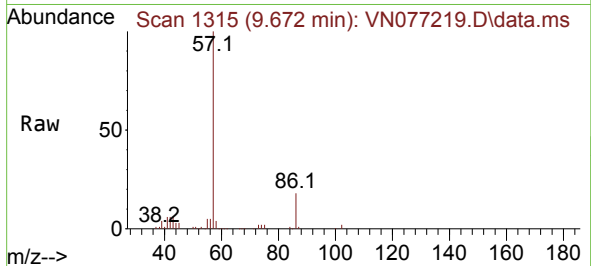




#48
Methyl methacrylate
Concen: 2.548 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.012 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

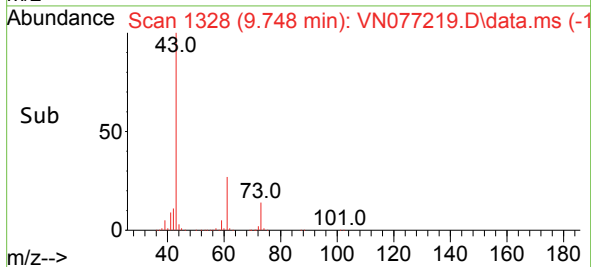
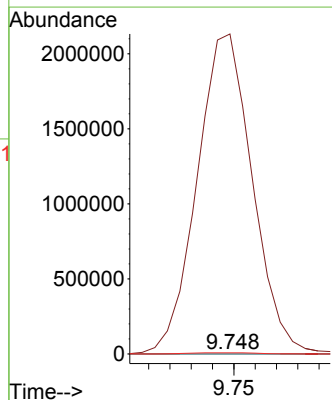
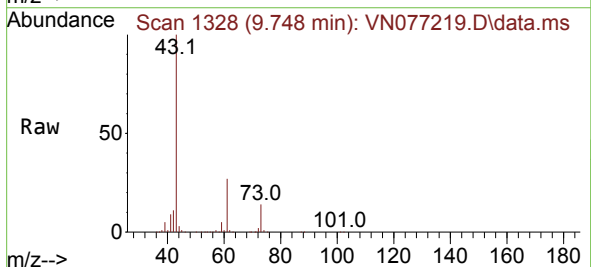
Instrument : MSVOA_N
ClientSampleId : 152140-TCLP-C-032223

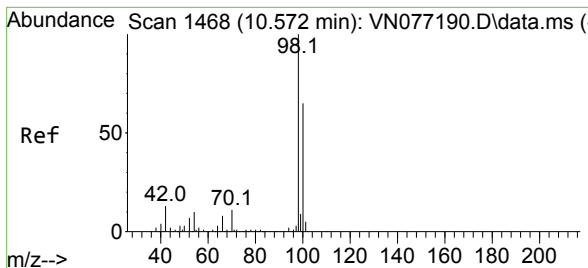
Tgt Ion: 41 Resp: 14725
Ion Ratio Lower Upper
41 100
69 0.4 92.6 139.0#
39 0.0 51.4 77.0#



#49
1,4-Dioxane
Concen: 5.411 ug/l
RT: 9.748 min Scan# 1328
Delta R.T. 0.053 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion: 88 Resp: 533
Ion Ratio Lower Upper
88 100
43 726661.9 15.3 22.9#
58 3305.8 47.6 71.4#





#50

Toluene-d8

Concen: 48.895 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

Instrument :

MSVOA_N

ClientSampleId :

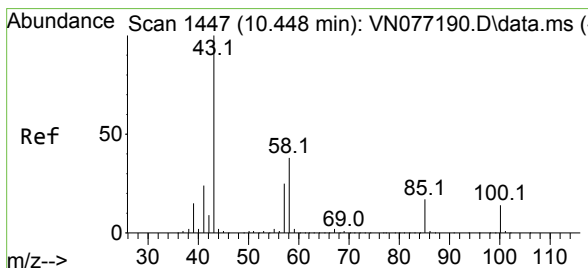
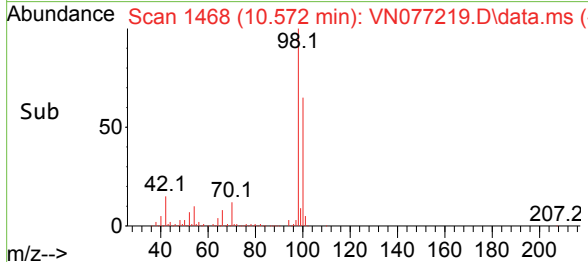
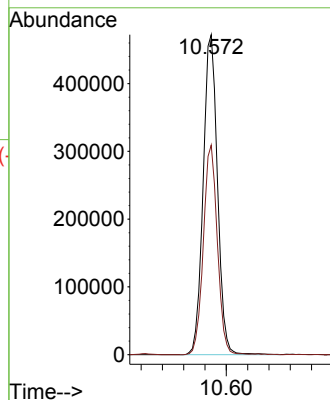
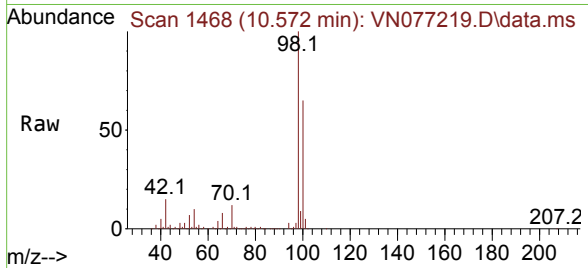
152140-TCLP-C-032223

Tgt Ion: 98 Resp: 878375

Ion Ratio Lower Upper

98 100

100 64.0 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 2.580 ug/l

RT: 10.442 min Scan# 1446

Delta R.T. -0.006 min

Lab File: VN077219.D

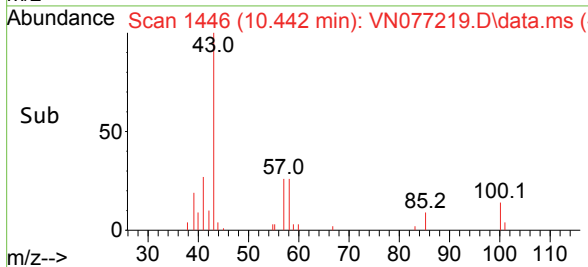
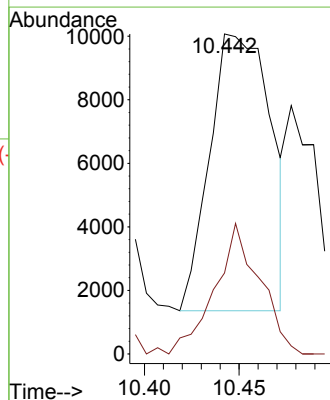
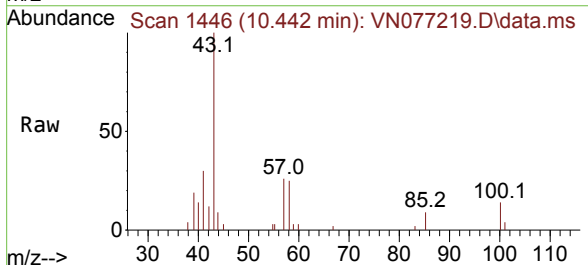
Acq: 27 Mar 2023 22:41

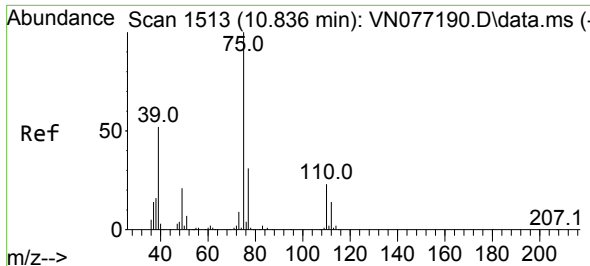
Tgt Ion: 43 Resp: 19479

Ion Ratio Lower Upper

43 100

58 34.7 37.4 56.0#

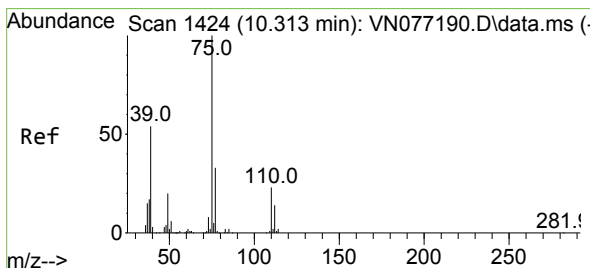
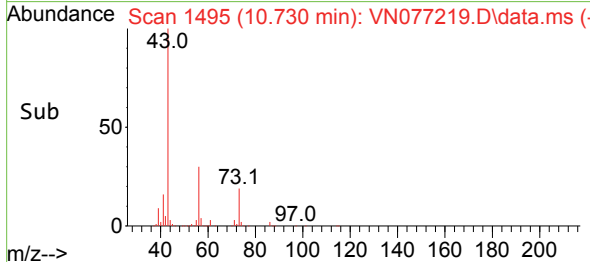
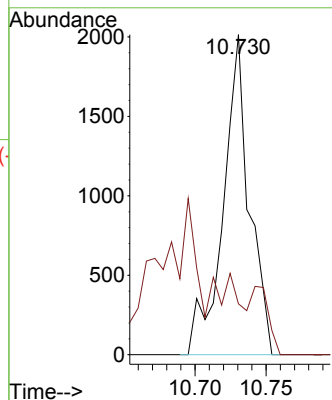
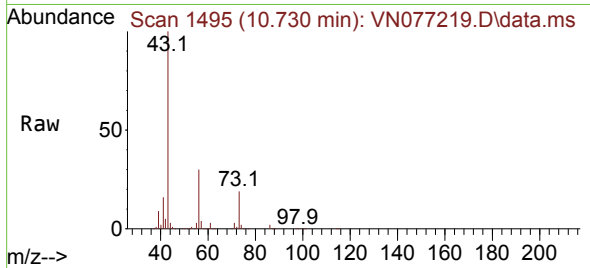




#53
t-1,3-Dichloropropene
Concen: 0.358 ug/l
RT: 10.730 min Scan# 1495
Delta R.T. -0.106 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

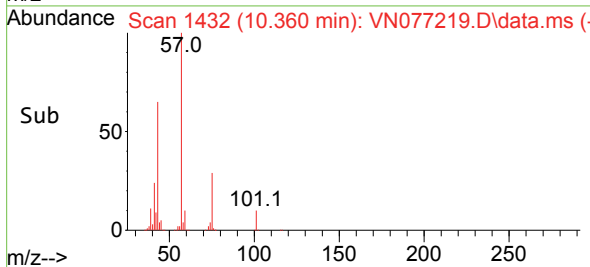
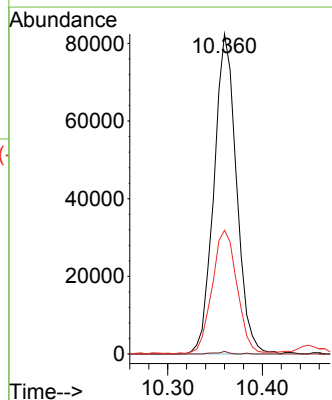
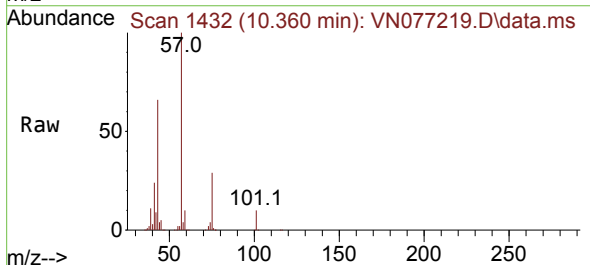
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-C-032223

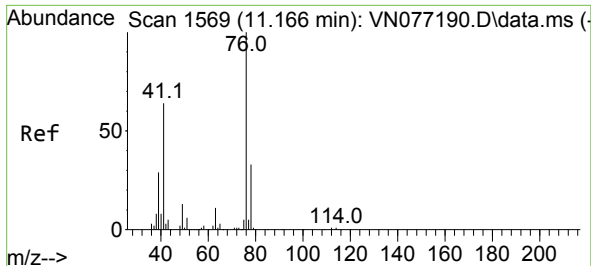
Tgt Ion: 75 Resp: 2570
Ion Ratio Lower Upper
75 100
77 15.9 25.0 37.6#



#54
cis-1,3-Dichloropropene
Concen: 17.364 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion: 75 Resp: 136328
Ion Ratio Lower Upper
75 100
77 0.8 25.7 38.5#
39 38.3 29.7 44.5

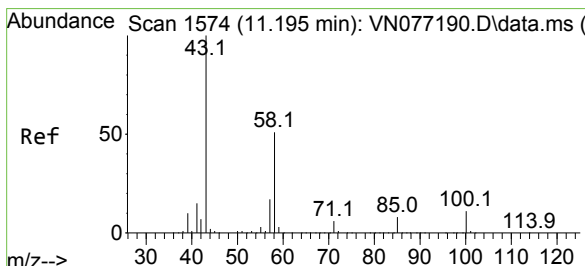
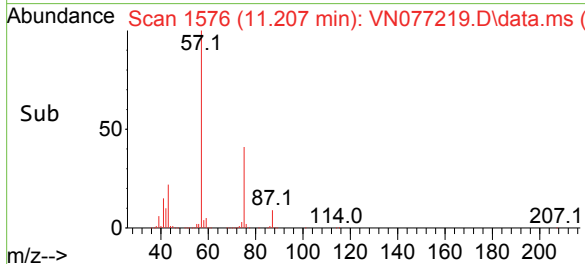
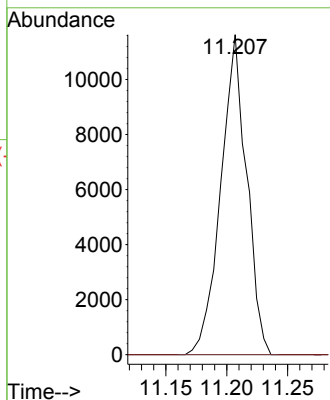
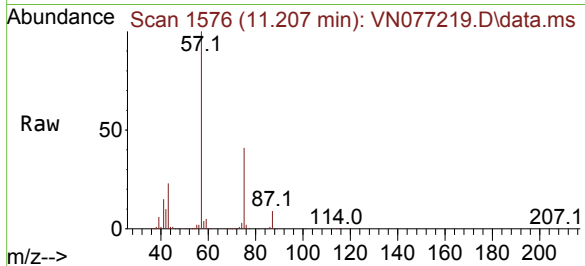




#57
1,3-Dichloropropane
Concen: 1.967 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

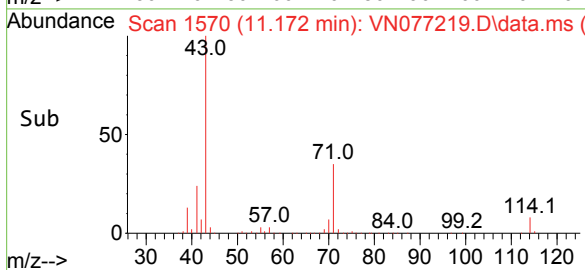
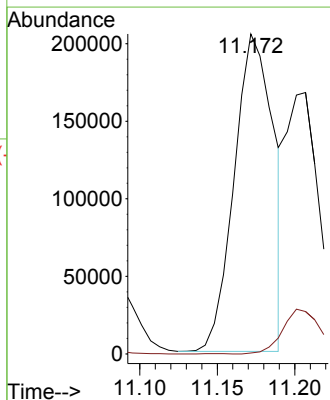
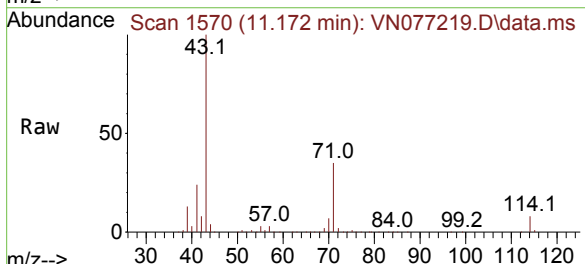
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-C-032223

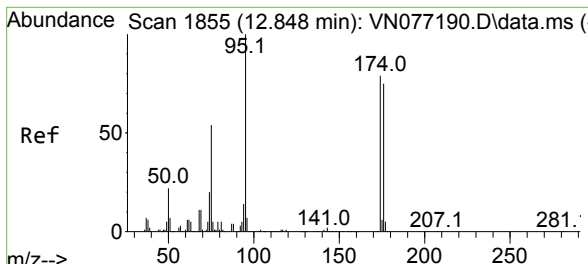
Tgt Ion: 76 Resp: 17169
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 66.480 ug/l
RT: 11.172 min Scan# 1570
Delta R.T. -0.023 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion: 43 Resp: 360712
Ion Ratio Lower Upper
43 100
58 0.0 32.6 98.0#

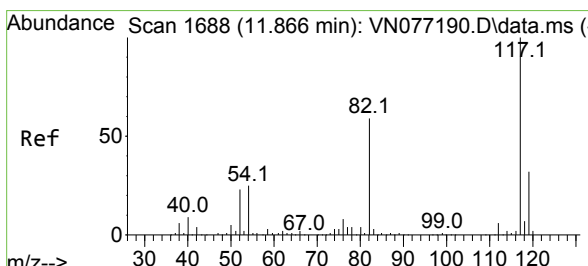
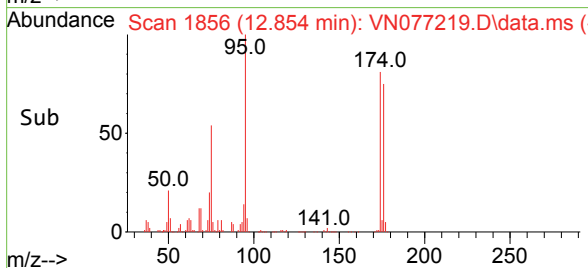
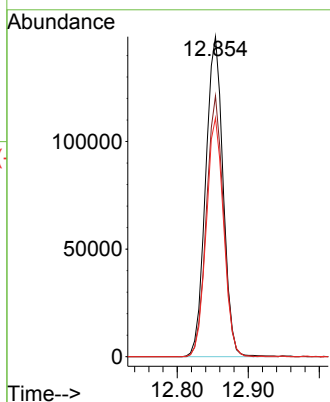
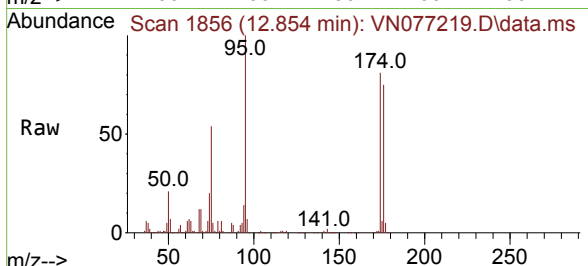




#62
4-Bromofluorobenzene
Concen: 43.021 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

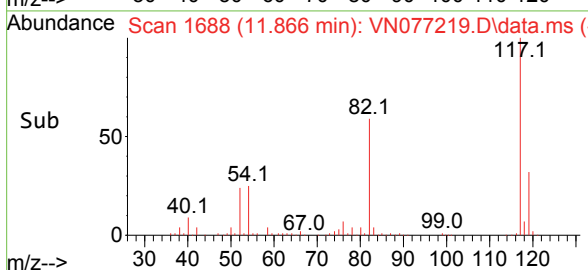
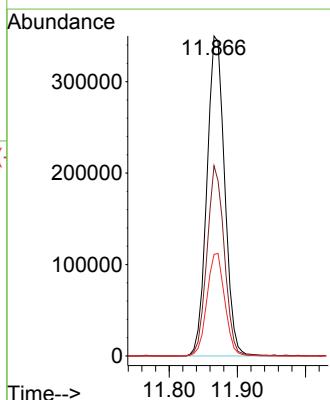
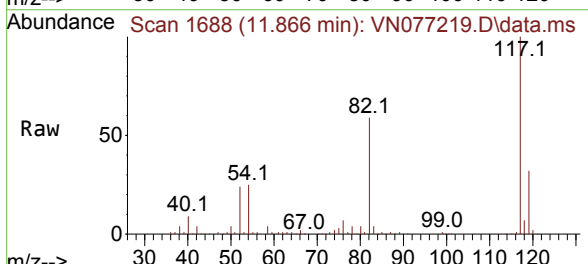
Instrument : MSVOA_N
ClientSampleId : 152140-TCLP-C-032223

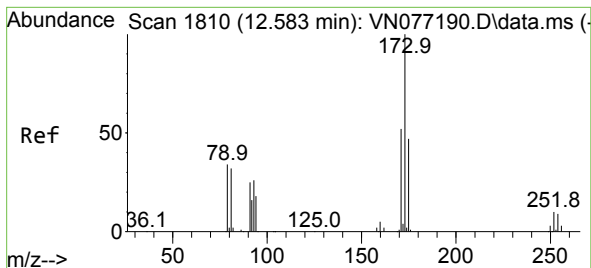
Tgt Ion:	95	Resp:	253645
Ion	Ratio	Lower	Upper
95	100		
174	80.1	0.0	162.4
176	74.4	0.0	157.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion:	117	Resp:	633057
Ion	Ratio	Lower	Upper
117	100		
82	59.4	43.5	65.3
119	31.7	25.5	38.3





#71

Bromoform

Concen: 0.685 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.271 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

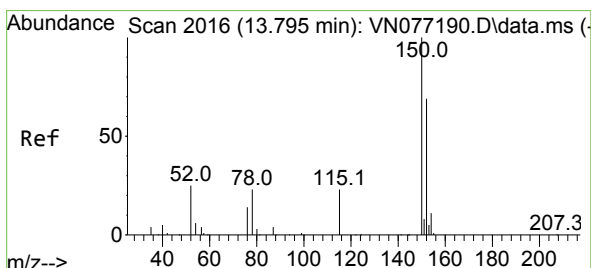
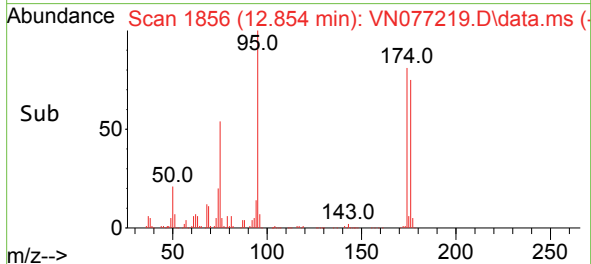
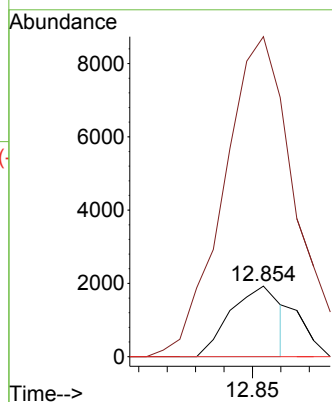
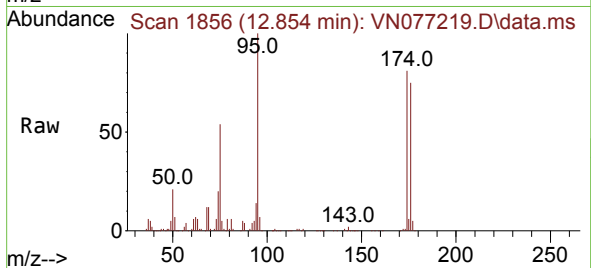
Instrument :

MSVOA_N

ClientSampleId :

152140-TCLP-C-032223

Tgt Ion:	173	Resp:	2364
Ion Ratio	Lower	Upper	
173	100		
175	522.8	24.9	74.6#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

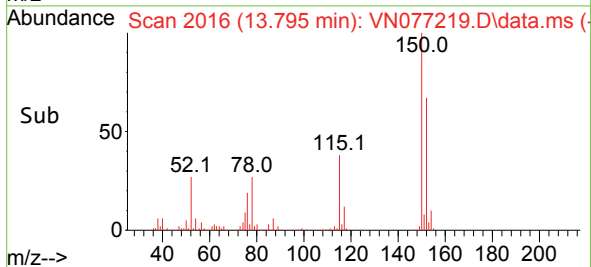
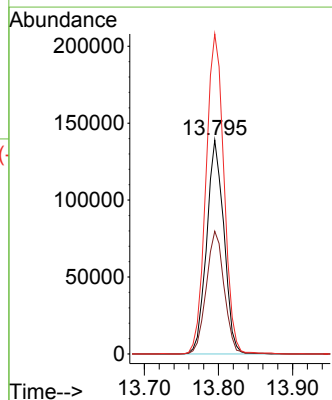
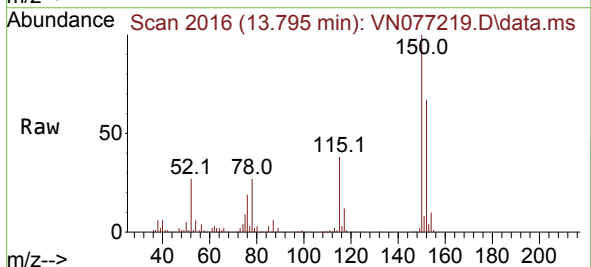
RT: 13.795 min Scan# 2016

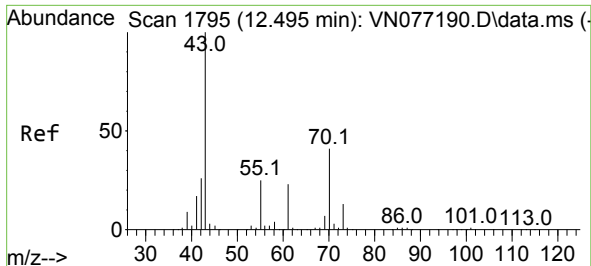
Delta R.T. -0.000 min

Lab File: VN077219.D

Acq: 27 Mar 2023 22:41

Tgt Ion:	152	Resp:	225205
Ion Ratio	Lower	Upper	
152	100		
115	59.5	30.3	90.9
150	156.2	0.0	353.6

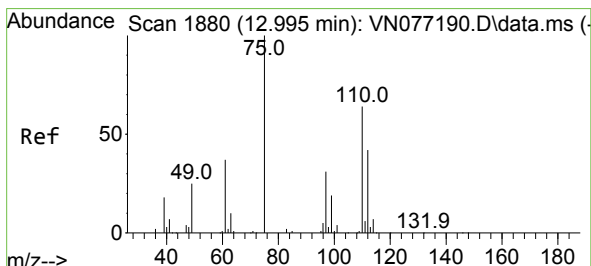
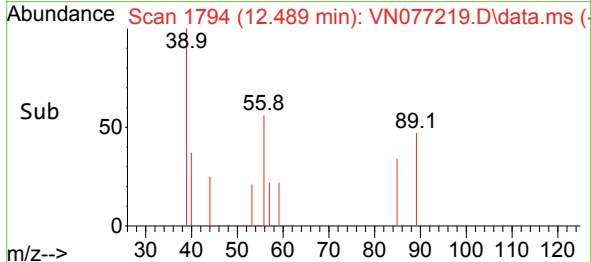
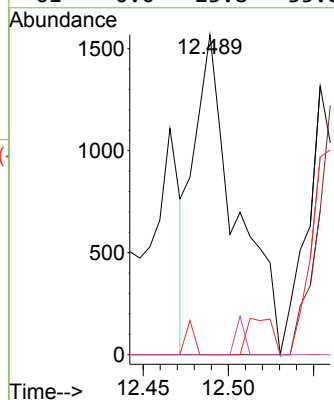
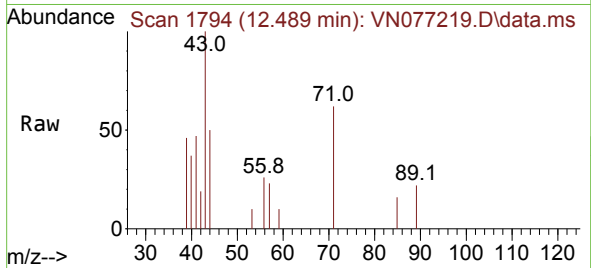




#74
N-amy1 acetate
Concen: 0.346 ug/l
RT: 12.489 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

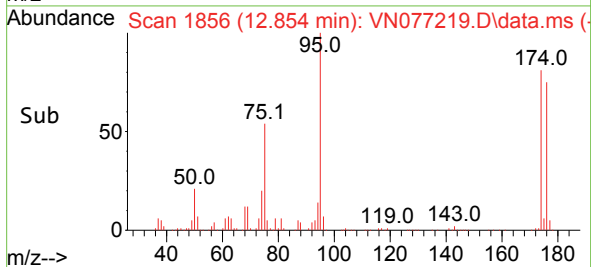
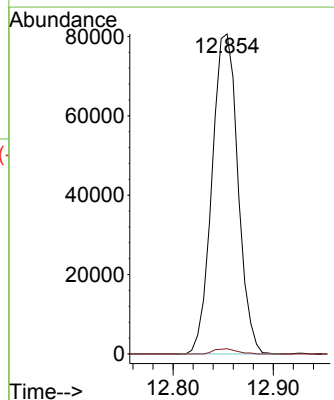
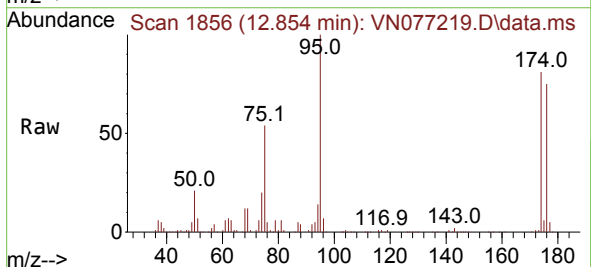
Instrument :
MSVOA_N
ClientSampleId :
152140-TCLP-C-032223

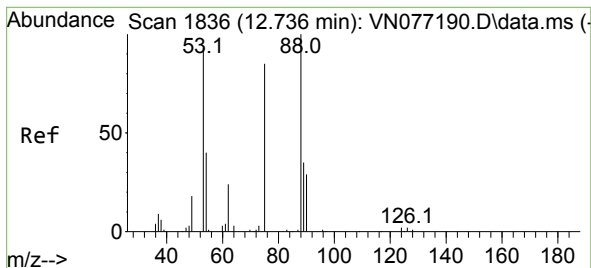
Tgt Ion: 43 Resp: 2674
Ion Ratio Lower Upper
43 100
70 0.0 46.8 70.2#
55 0.0 23.4 35.2#
61 0.0 23.8 35.8#



#76
1,2,3-Trichloropropane
Concen: 31.679 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion: 75 Resp: 144723
Ion Ratio Lower Upper
75 100
77 1.4 93.8 281.4#

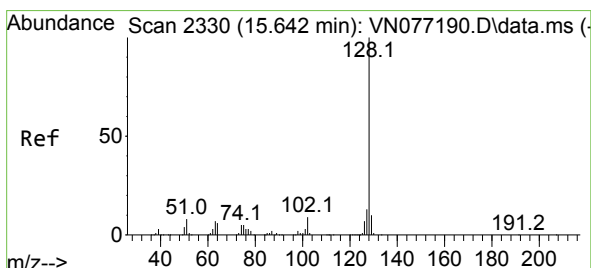
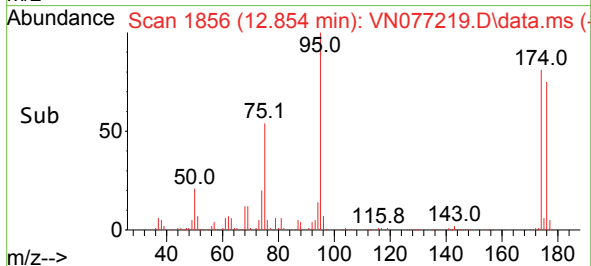
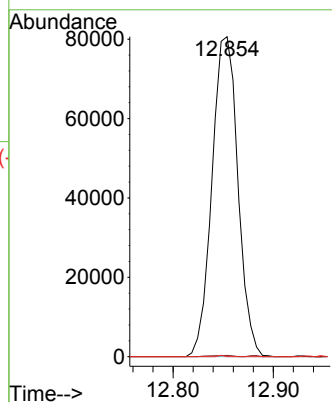
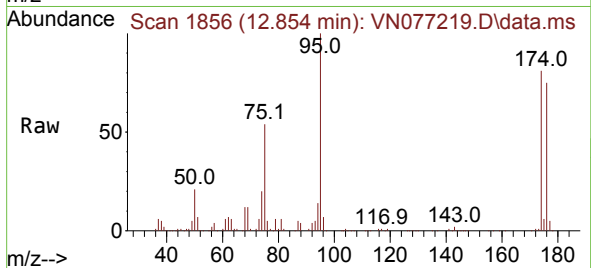




#81
trans-1,4-Dichloro-2-butene
Concen: 91.302 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

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

Tgt Ion: 75 Resp: 144723
Ion Ratio Lower Upper
75 100
53 0.3 67.4 101.0#
89 0.1 39.5 59.3#



#95
Naphthalene
Concen: 5.944 ug/l
RT: 15.654 min Scan# 2332
Delta R.T. 0.012 min
Lab File: VN077219.D
Acq: 27 Mar 2023 22:41

Tgt Ion:128 Resp: 397
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.9 13.3#

