

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020823\
 Data File : VN076589.D
 Acq On : 08 Feb 2023 18:58
 Operator : JC\MD
 Sample : 01462-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-1

Quant Time: Feb 09 00:53:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N020723W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 08 09:04:43 2023
 Response via : Initial Calibration

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

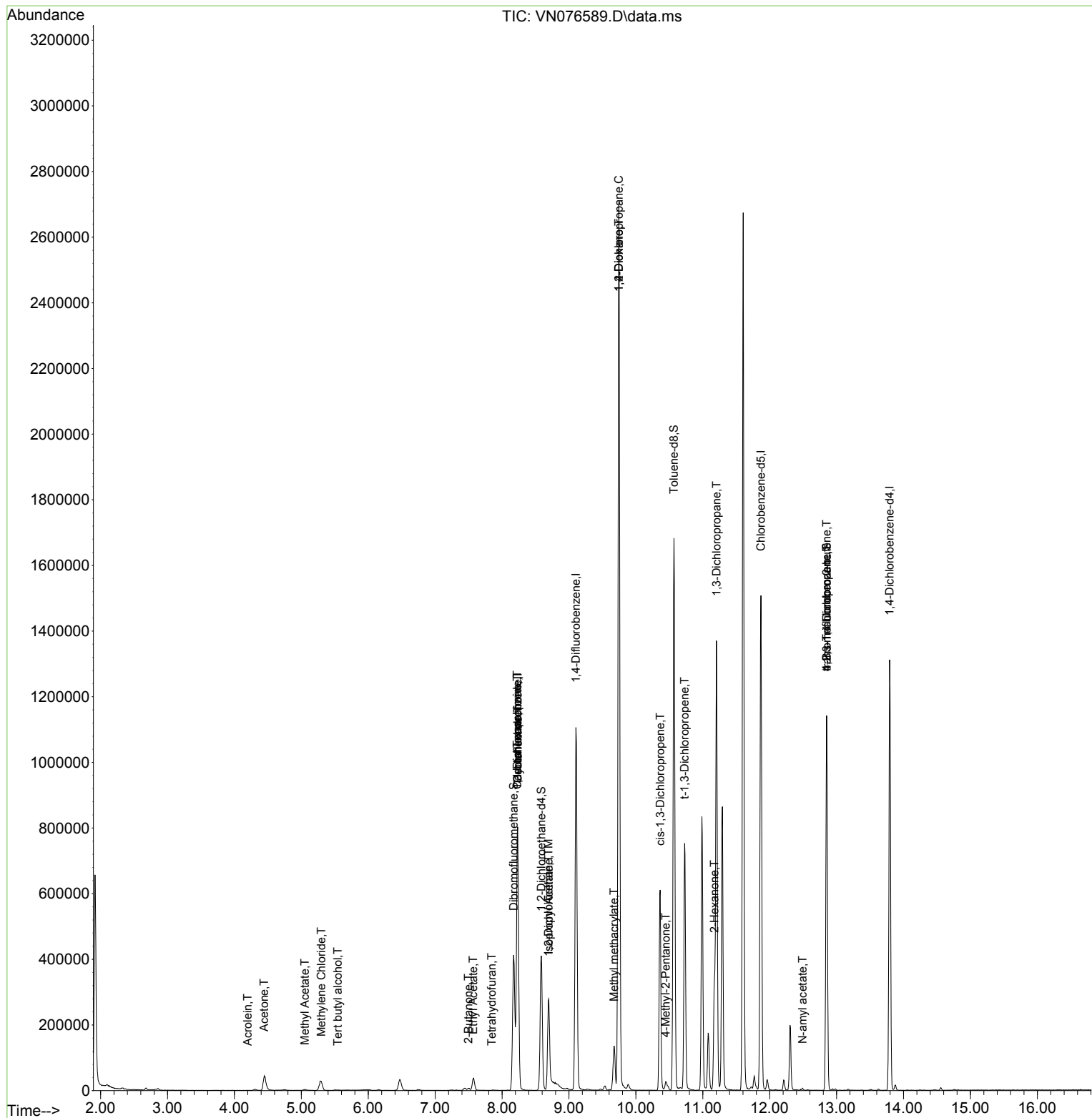
Internal Standards						
1) Pentafluorobenzene	8.233	168	606663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.104	114	1028229	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.869	117	935237	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.792	152	372596	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.586	65	345431	48.242	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.480%		
35) Dibromofluoromethane	8.175	113	305000	47.717	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.440%		
50) Toluene-d8	10.569	98	1220742	50.767	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.540%		
62) 4-Bromofluorobenzene	12.851	95	412754	48.724	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.440%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.545	59	339	0.363	ug/l #	72
13) Acrolein	4.198	56	262	0.210	ug/l #	82
16) Acetone	4.446	43	83531	35.384	ug/l	95
18) Methyl Acetate	5.051	43	6180	0.827	ug/l #	86
20) Methylene Chloride	5.298	84	26192	3.599	ug/l	91
25) 2-Butanone	7.498	43	10544	3.107	ug/l	97
29) Tetrahydrofuran	7.845	42	454	0.208	ug/l #	26
31) Cyclohexane	8.233	56	10428	0.921	ug/l #	1
36) 1,1-Dichloropropene	8.228	75	47287	5.182	ug/l #	49
37) Ethyl Acetate	7.569	43	53956	7.892	ug/l	97
38) Carbon Tetrachloride	8.228	117	60173	6.133	ug/l #	16
42) 1,2-Dichloroethane	8.692	62	2306	0.256	ug/l #	71
43) Isopropyl Acetate	8.698	43	324741	28.543	ug/l #	85
45) 1,2-Dichloropropane	9.745	63	3770	0.567	ug/l #	42
48) Methyl methacrylate	9.675	41	7454	1.332	ug/l #	32
49) 1,4-Dioxane	9.745	88	579	4.837	ug/l #	1
51) 4-Methyl-2-Pentanone	10.445	43	24975	3.653	ug/l #	76
53) t-1,3-Dichloropropene	10.727	75	2439	0.262	ug/l	90
54) cis-1,3-Dichloropropene	10.363	75	127420	11.999	ug/l #	59
57) 1,3-Dichloropropane	11.204	76	15295	1.351	ug/l #	42
59) 2-Hexanone	11.174	43	270937	55.580	ug/l #	18
74) N-amyl acetate	12.492	43	2144	0.252	ug/l #	42
76) 1,2,3-Trichloropropane	12.851	75	200152	28.792	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.851	75	200152	88.409	ug/l #	10

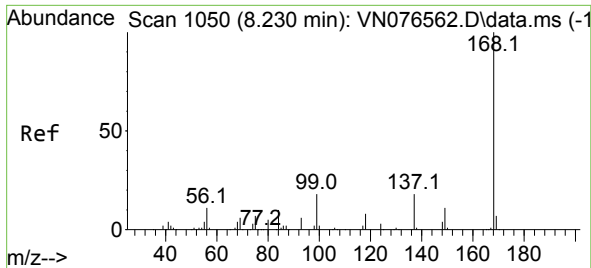
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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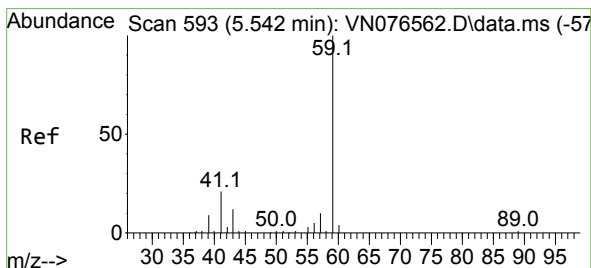
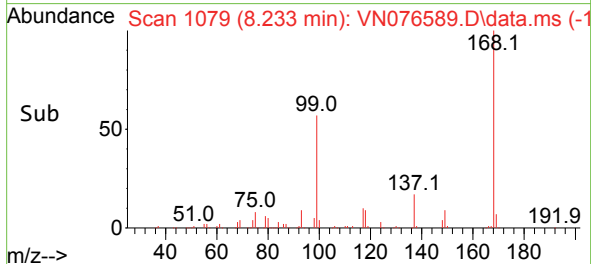
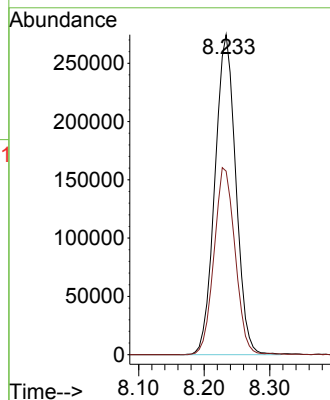
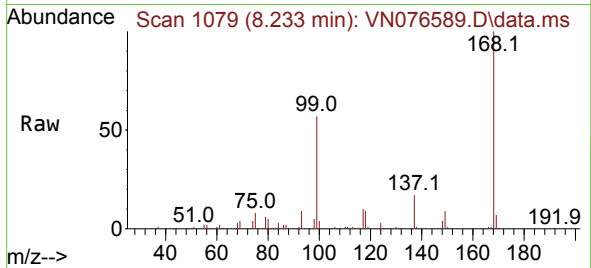




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.233 min Scan# 1050
Delta R.T. 0.003 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

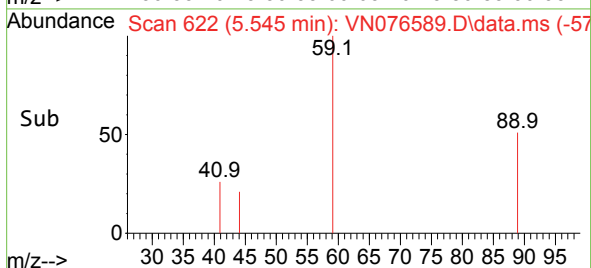
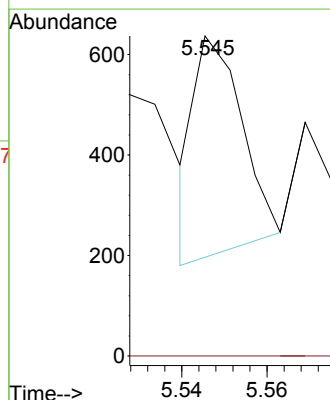
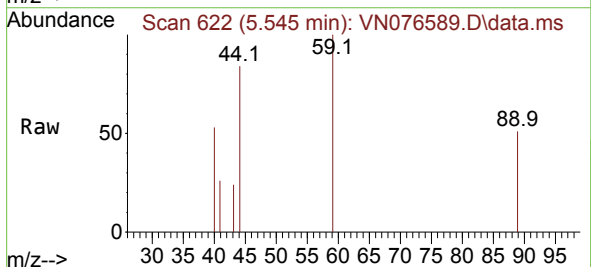
Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

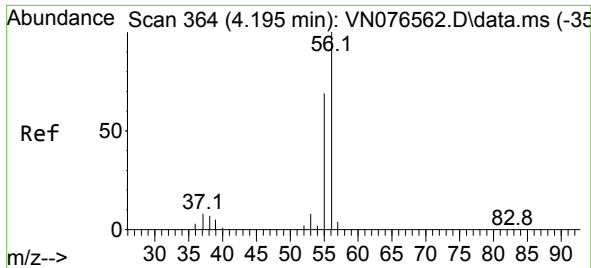
Tgt Ion:168 Resp: 606663
Ion Ratio Lower Upper
168 100
99 57.4 47.8 71.8



#11
Tert butyl alcohol
Concen: 0.363 ug/l
RT: 5.545 min Scan# 622
Delta R.T. 0.003 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 59 Resp: 339
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

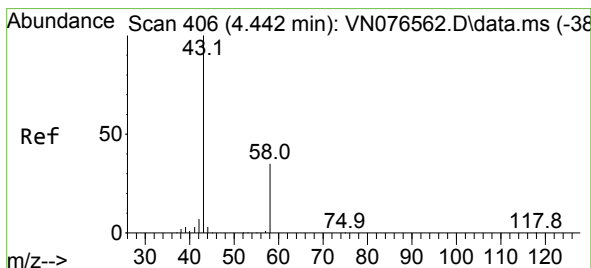
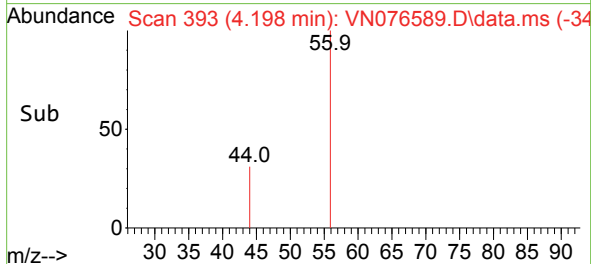
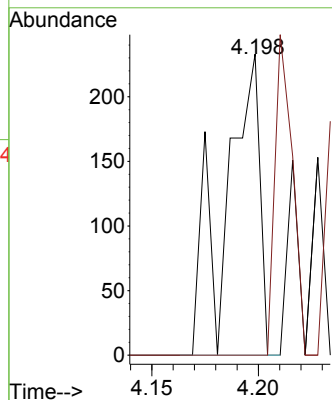
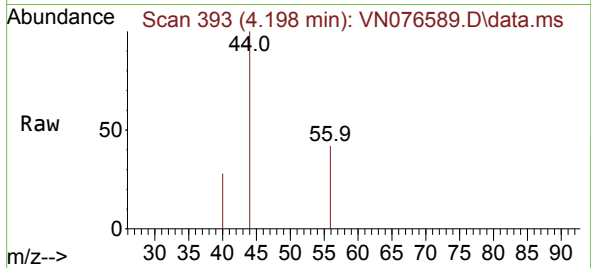




#13
Acrolein
Concen: 0.210 ug/l
RT: 4.198 min Scan# 364
Delta R.T. 0.003 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

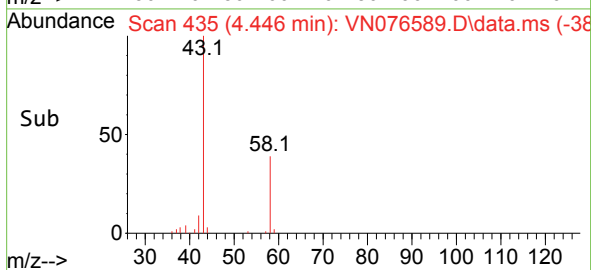
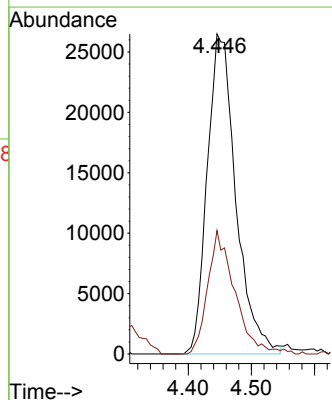
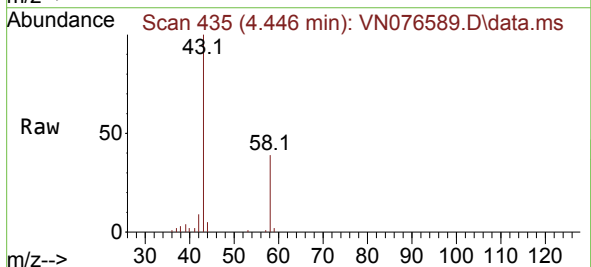
Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

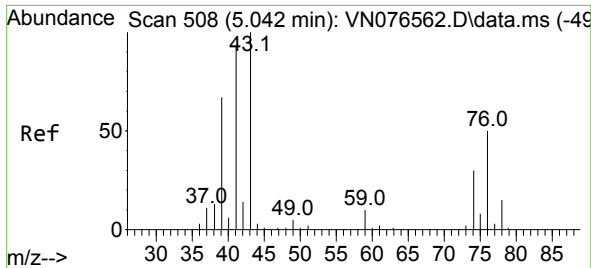
Tgt Ion: 56 Resp: 262
Ion Ratio Lower Upper
56 100
55 54.2 54.7 82.1#



#16
Acetone
Concen: 35.384 ug/l
RT: 4.446 min Scan# 435
Delta R.T. 0.003 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 43 Resp: 83531
Ion Ratio Lower Upper
43 100
58 38.6 28.4 42.6

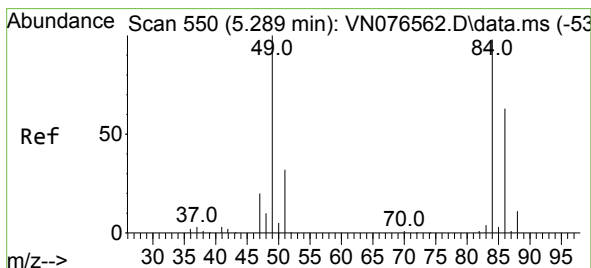
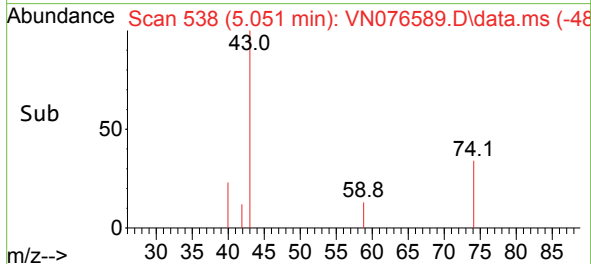
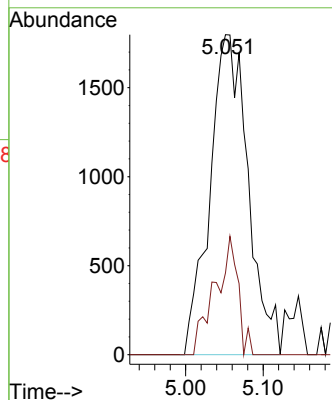
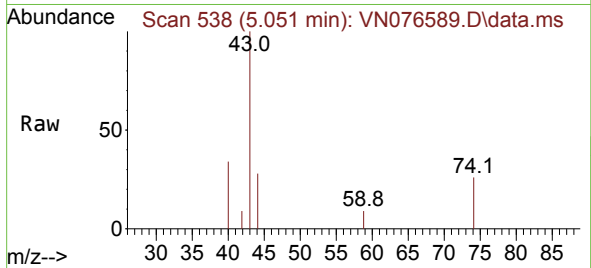




#18
Methyl Acetate
Concen: 0.827 ug/l
RT: 5.051 min Scan# 51
Delta R.T. 0.009 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

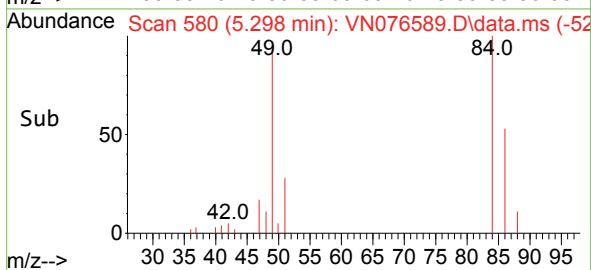
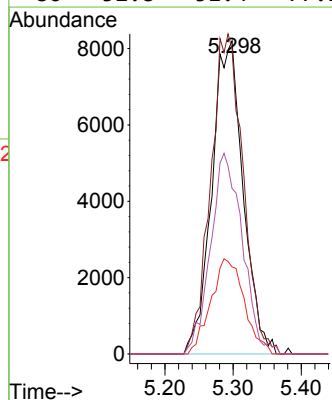
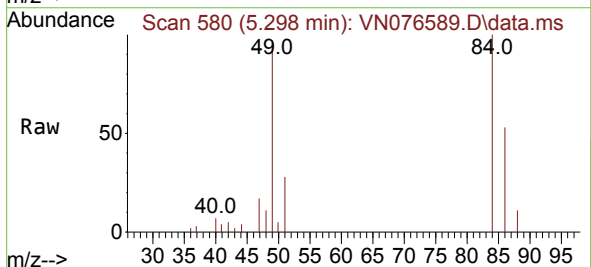
Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

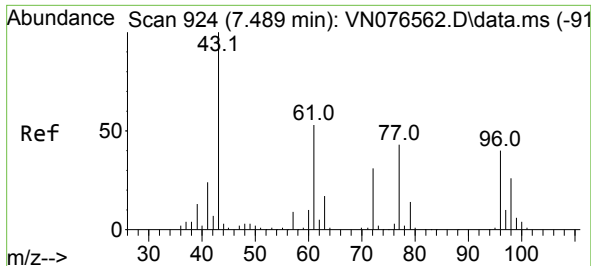
Tgt Ion: 43 Resp: 6180
Ion Ratio Lower Upper
43 100
74 22.4 23.9 35.9#



#20
Methylene Chloride
Concen: 3.599 ug/l
RT: 5.298 min Scan# 580
Delta R.T. 0.009 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 84 Resp: 26192
Ion Ratio Lower Upper
84 100
49 97.4 82.0 123.0
51 27.8 26.0 39.0
86 52.8 51.4 77.2





#25

2-Butanone

Concen: 3.107 ug/l

RT: 7.498 min Scan# 91

Delta R.T. 0.009 min

Lab File: VN076589.D

Acq: 08 Feb 2023 18:58

Instrument :

MSVOA_N

ClientSampleId :

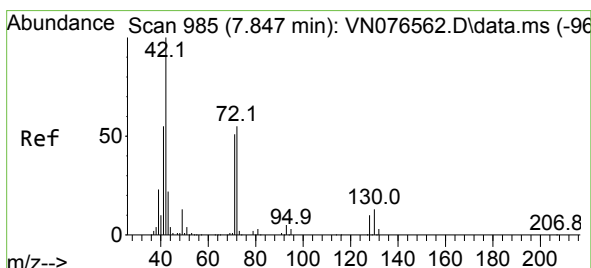
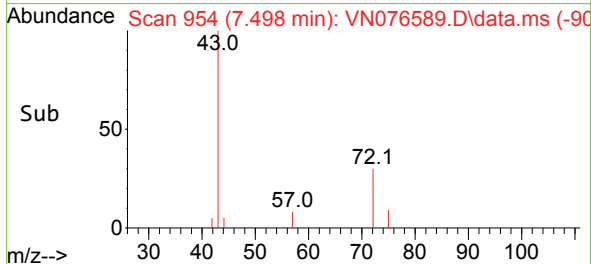
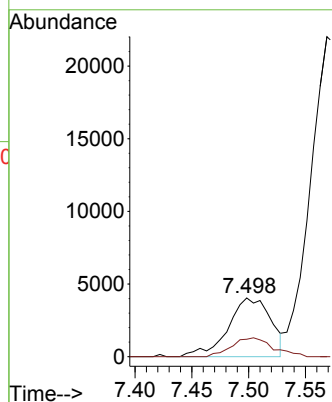
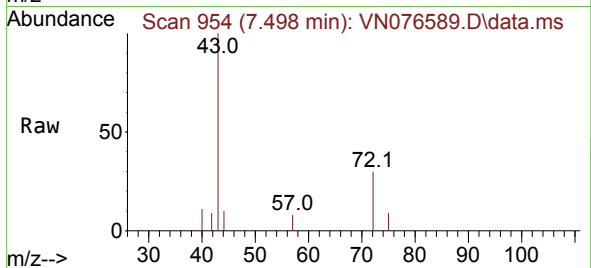
TCLP-1

Tgt Ion: 43 Resp: 10544

Ion Ratio Lower Upper

43 100

72 29.6 25.1 37.7



#29

Tetrahydrofuran

Concen: 0.208 ug/l

RT: 7.845 min Scan# 1013

Delta R.T. -0.002 min

Lab File: VN076589.D

Acq: 08 Feb 2023 18:58

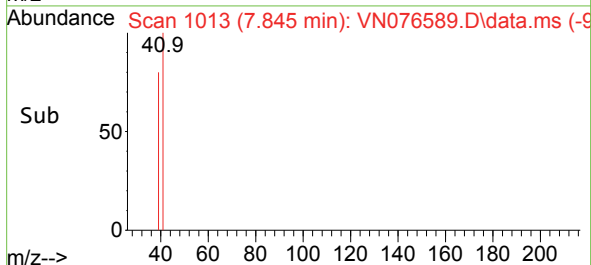
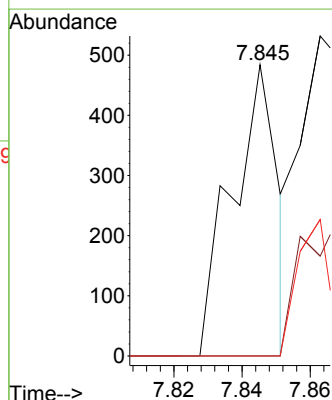
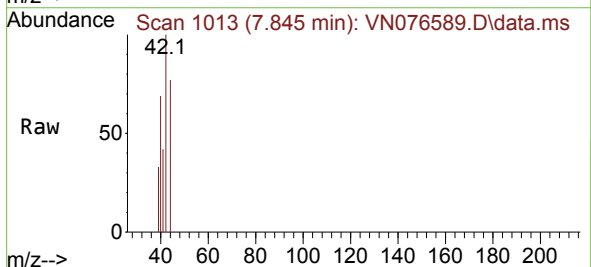
Tgt Ion: 42 Resp: 454

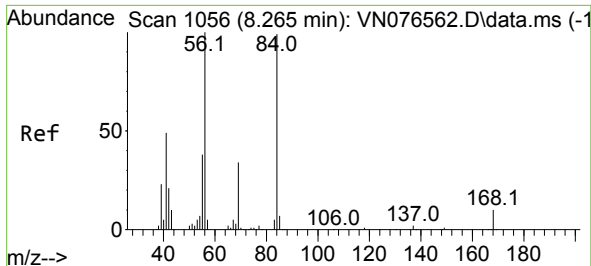
Ion Ratio Lower Upper

42 100

72 0.0 42.9 64.3#

71 0.0 39.9 59.9#

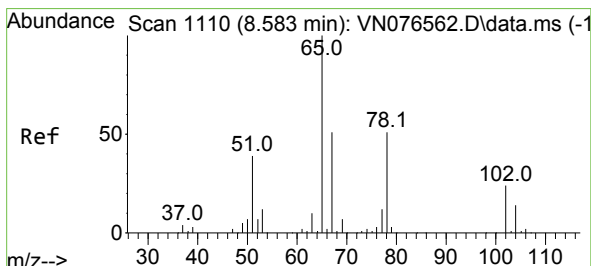
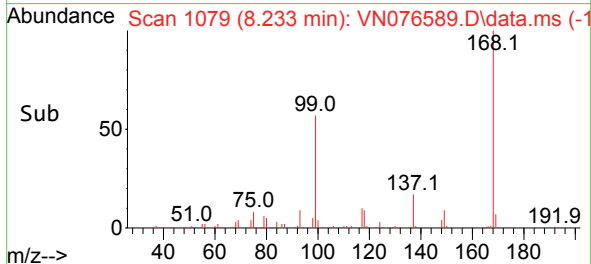
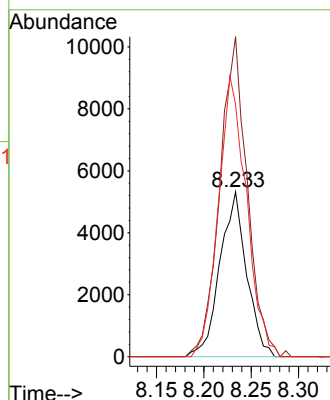
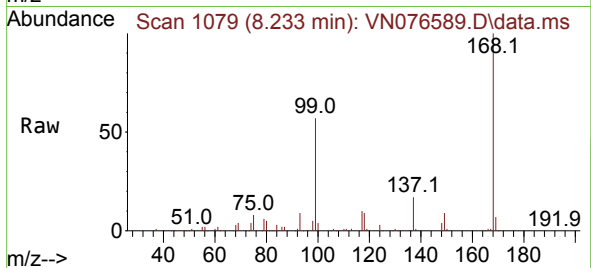




#31
Cyclohexane
Concen: 0.921 ug/l
RT: 8.233 min Scan# 1109
Delta R.T. -0.032 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

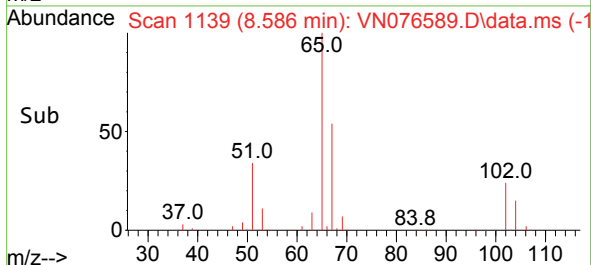
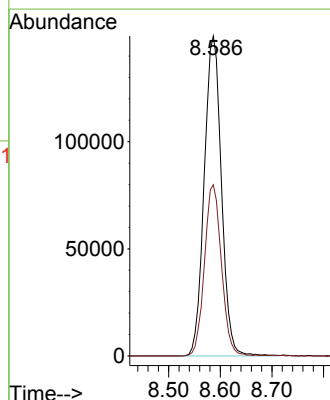
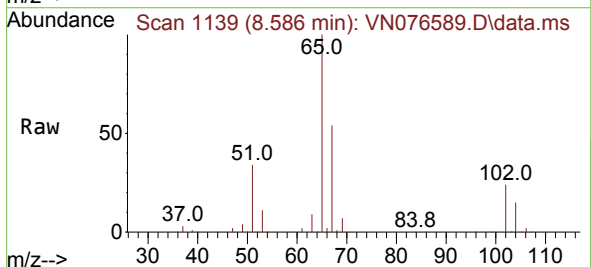
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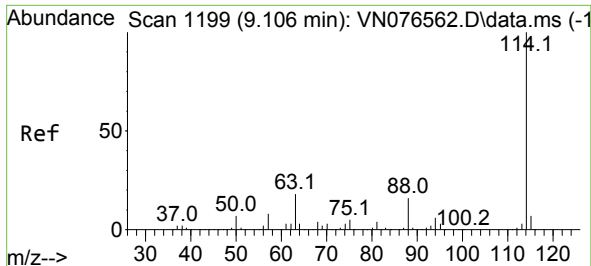
Tgt Ion: 56 Resp: 10428
Ion Ratio Lower Upper
56 100
69 194.1 27.0 40.4#
84 153.1 79.5 119.3#



#33
1,2-Dichloroethane-d4
Concen: 48.242 ug/l
RT: 8.586 min Scan# 1139
Delta R.T. 0.003 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 65 Resp: 345431
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.104 min Scan# 11

Delta R.T. -0.002 min

Lab File: VN076589.D

Acq: 08 Feb 2023 18:58

Instrument :

MSVOA_N

ClientSampleId :

TCLP-1

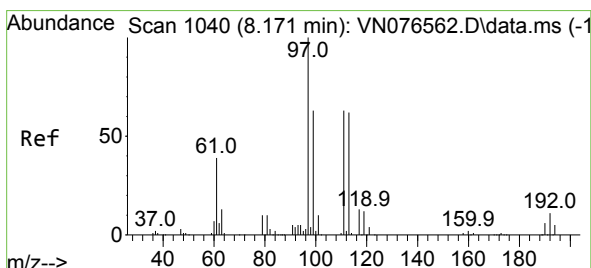
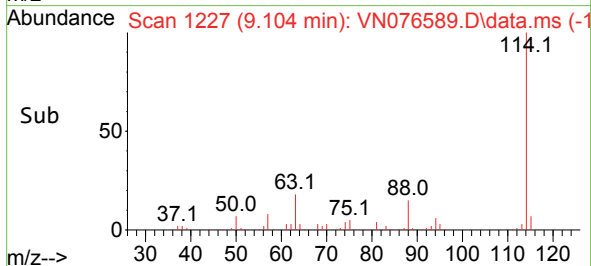
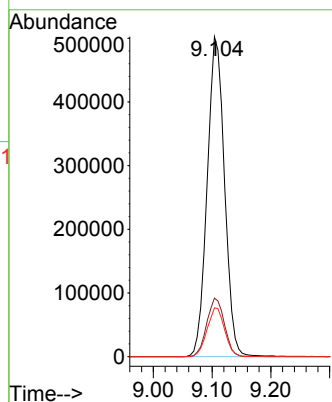
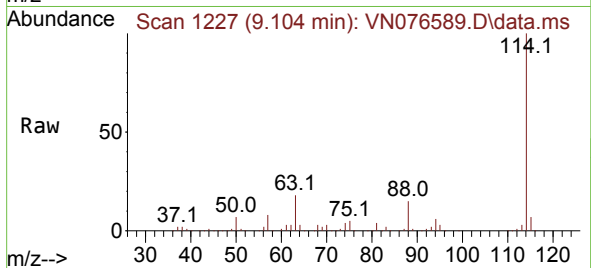
Tgt Ion:114 Resp: 1028229

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.6

88 15.2 0.0 32.0



#35

Dibromofluoromethane

Concen: 47.717 ug/l

RT: 8.175 min Scan# 1069

Delta R.T. 0.004 min

Lab File: VN076589.D

Acq: 08 Feb 2023 18:58

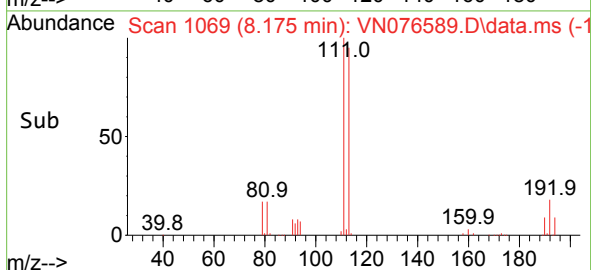
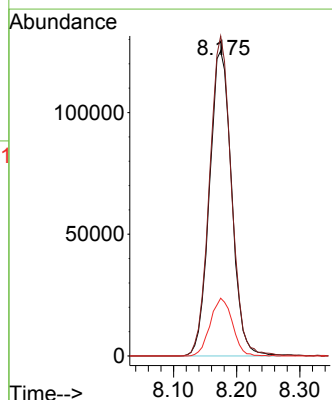
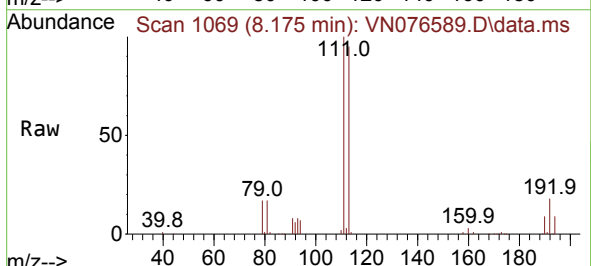
Tgt Ion:113 Resp: 305000

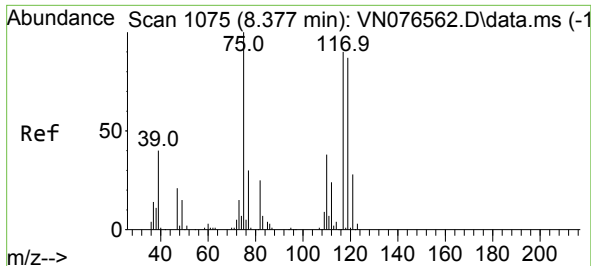
Ion Ratio Lower Upper

113 100

111 103.7 82.0 123.0

192 19.0 14.8 22.2





#36

1,1-Dichloropropene

Concen: 5.182 ug/l

RT: 8.228 min Scan# 1

Delta R.T. -0.149 min

Lab File: VN076589.D

Acq: 08 Feb 2023 18:58

Instrument :

MSVOA_N

ClientSampleId :

TCLP-1

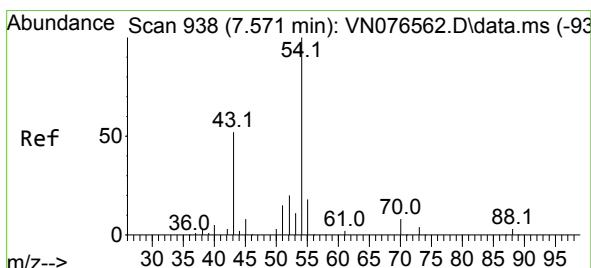
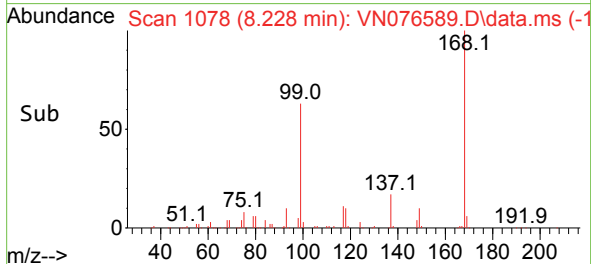
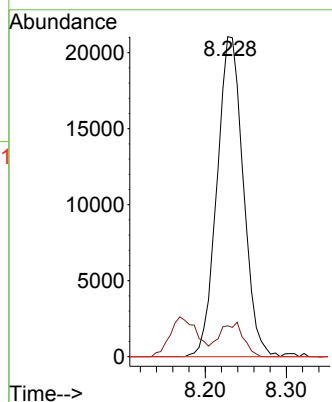
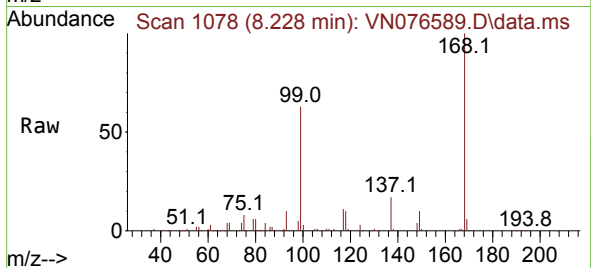
Tgt Ion: 75 Resp: 47287

Ion Ratio Lower Upper

75 100

110 9.8 18.6 55.6#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 7.892 ug/l

RT: 7.569 min Scan# 966

Delta R.T. -0.002 min

Lab File: VN076589.D

Acq: 08 Feb 2023 18:58

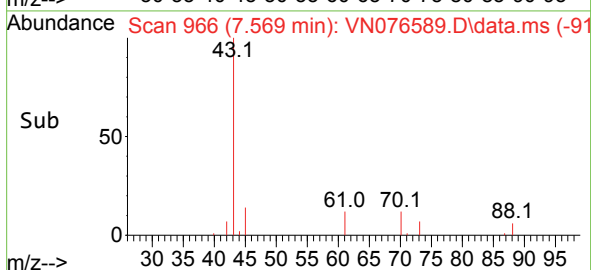
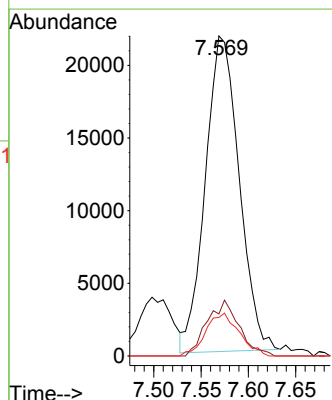
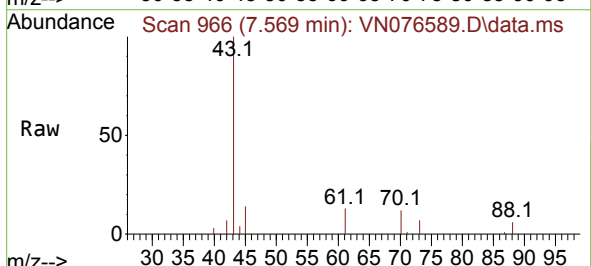
Tgt Ion: 43 Resp: 53956

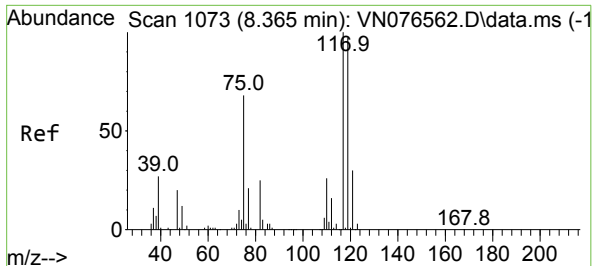
Ion Ratio Lower Upper

43 100

61 16.7 11.8 17.6

70 13.4 10.4 15.6

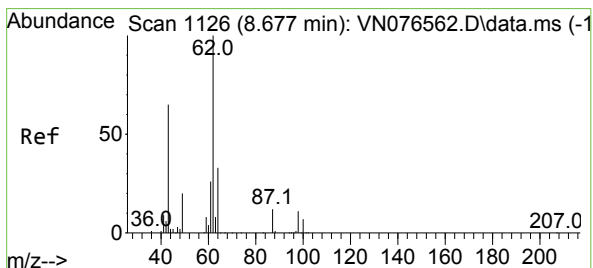
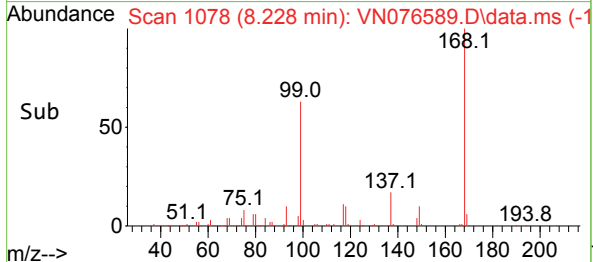
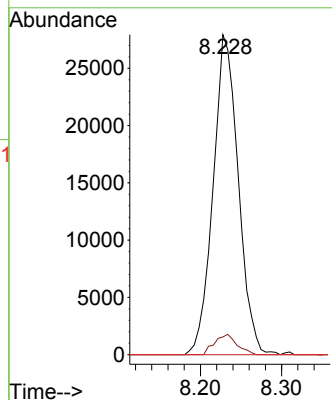
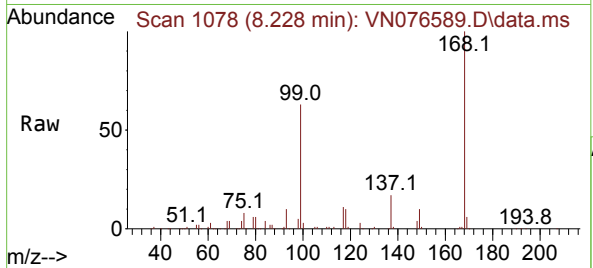




#38
Carbon Tetrachloride
Concen: 6.133 ug/l
RT: 8.228 min Scan# 1157
Delta R.T. -0.137 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

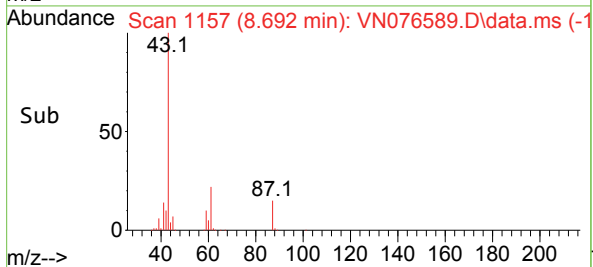
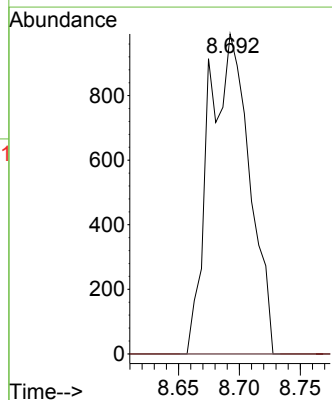
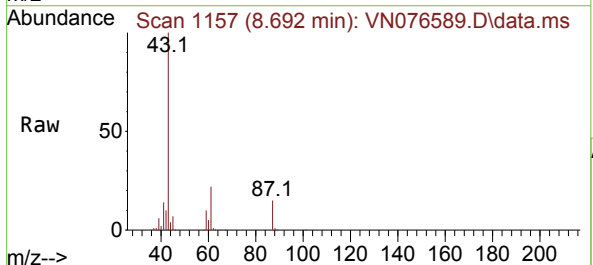
Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

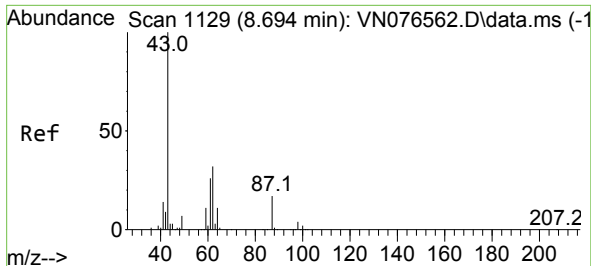
Tgt Ion:117 Resp: 60173
Ion Ratio Lower Upper
117 100
119 5.6 77.2 115.8#
121 0.0 23.9 35.9#



#42
1,2-Dichloroethane
Concen: 0.256 ug/l
RT: 8.692 min Scan# 1157
Delta R.T. 0.015 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 62 Resp: 2306
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.6





#43

Isopropyl Acetate

Concen: 28.543 ug/l

RT: 8.698 min Scan# 1158

Delta R.T. 0.004 min

Lab File: VN076589.D

Acq: 08 Feb 2023 18:58

Instrument :

MSVOA_N

ClientSampleId :

TCLP-1

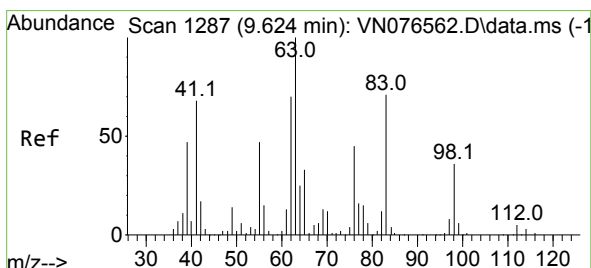
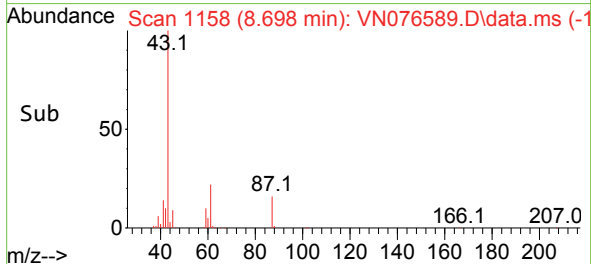
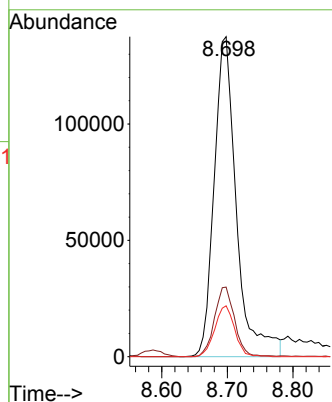
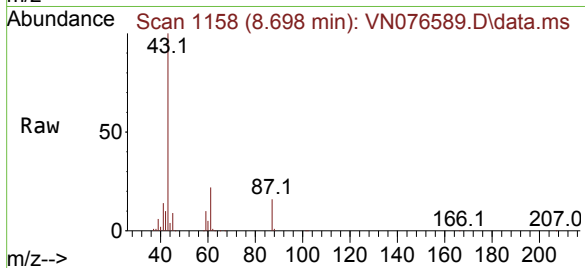
Tgt Ion: 43 Resp: 324741

Ion Ratio Lower Upper

43 100

61 19.6 24.5 36.7#

87 14.2 13.6 20.4



#45

1,2-Dichloropropane

Concen: 0.567 ug/l

RT: 9.745 min Scan# 1336

Delta R.T. 0.121 min

Lab File: VN076589.D

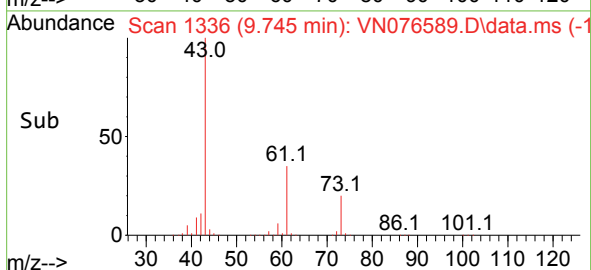
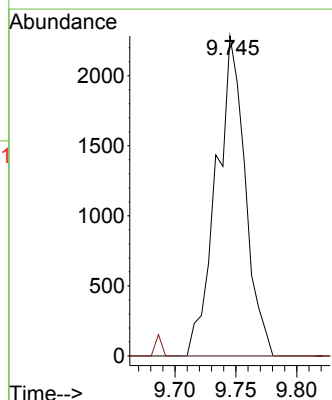
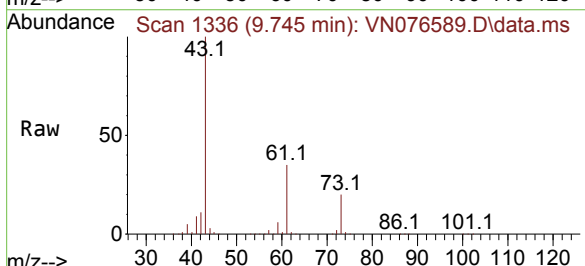
Acq: 08 Feb 2023 18:58

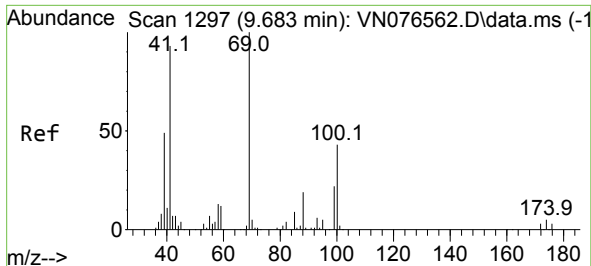
Tgt Ion: 63 Resp: 3770

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#

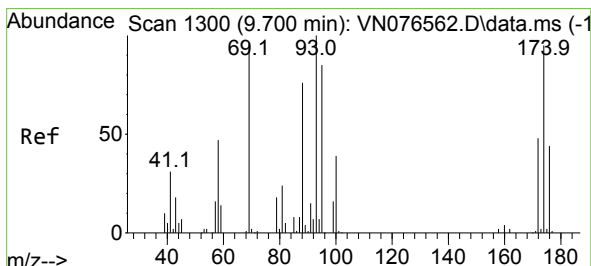
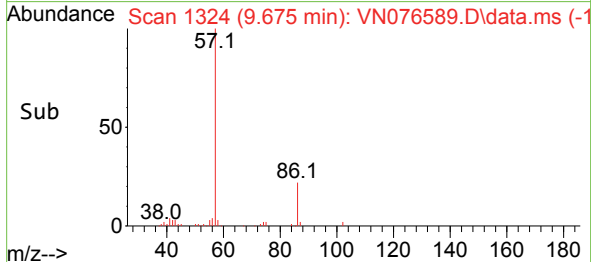
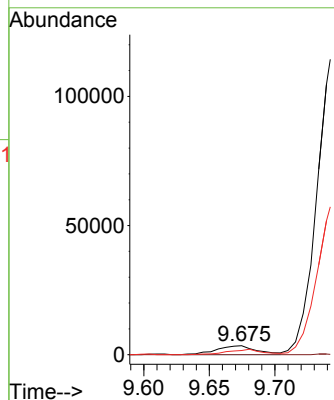
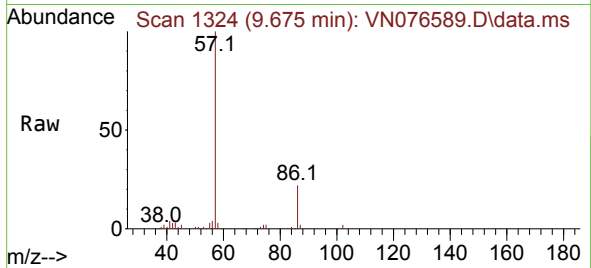




#48
Methyl methacrylate
Concen: 1.332 ug/l
RT: 9.675 min Scan# 11
Delta R.T. -0.008 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

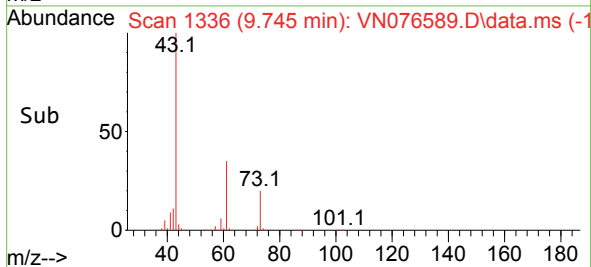
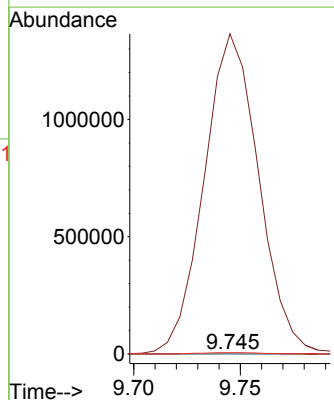
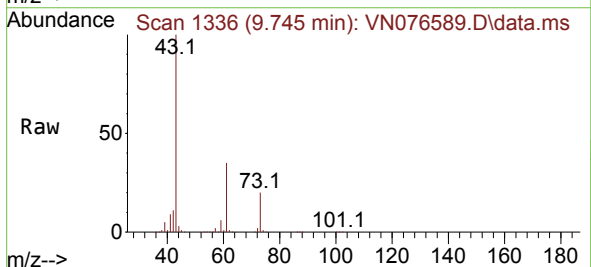
Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

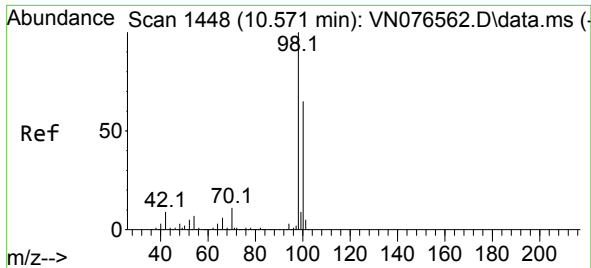
Tgt Ion: 41 Resp: 7454
Ion Ratio Lower Upper
41 100
69 0.0 83.0 124.4#
39 51.6 43.8 65.8



#49
1,4-Dioxane
Concen: 4.837 ug/l
RT: 9.745 min Scan# 1336
Delta R.T. 0.045 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 88 Resp: 579
Ion Ratio Lower Upper
88 100
43 423521.2 16.7 25.1#
58 2086.5 51.7 77.5#

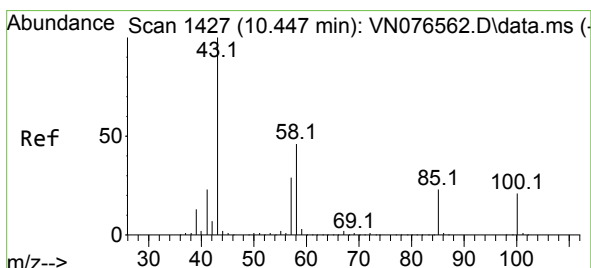
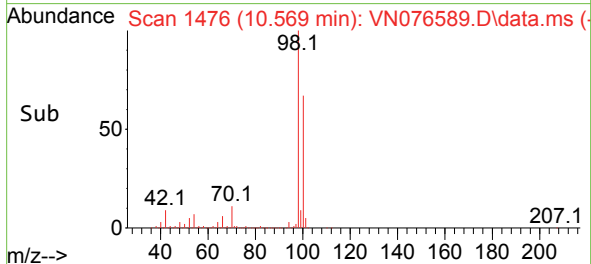
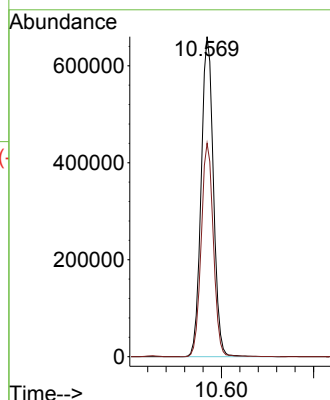
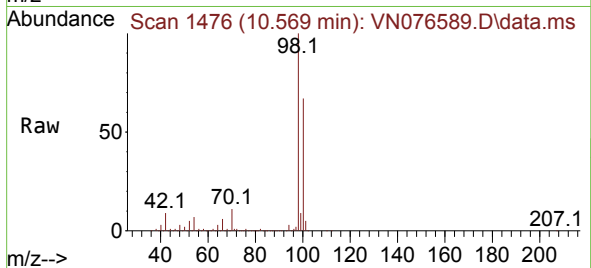




#50
Toluene-d8
Concen: 50.767 ug/l
RT: 10.569 min Scan# 1448
Delta R.T. -0.002 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

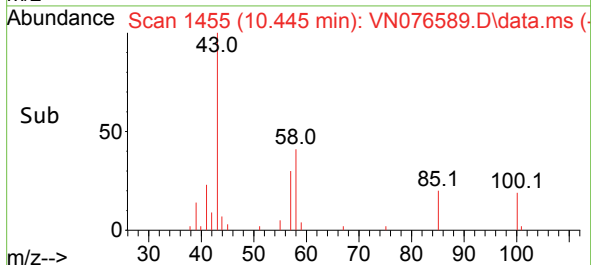
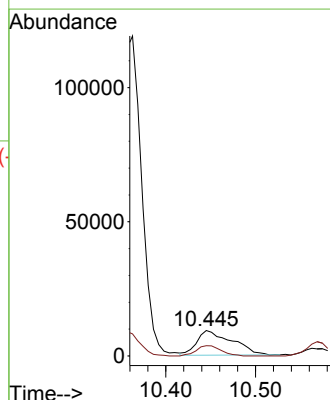
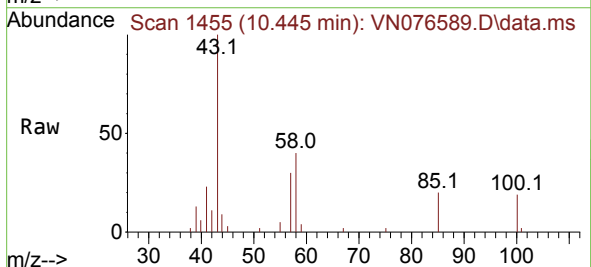
Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

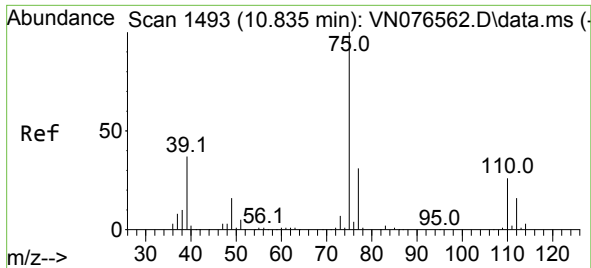
Tgt Ion: 98 Resp: 1220742
Ion Ratio Lower Upper
98 100
100 66.4 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 3.653 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. -0.002 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 43 Resp: 24975
Ion Ratio Lower Upper
43 100
58 29.5 36.4 54.6#

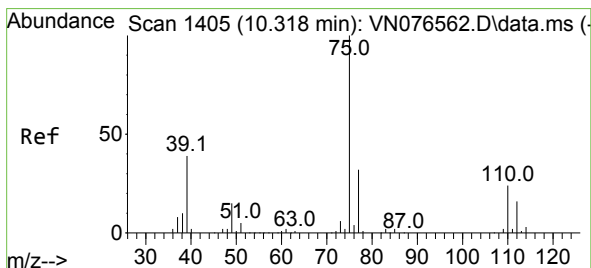
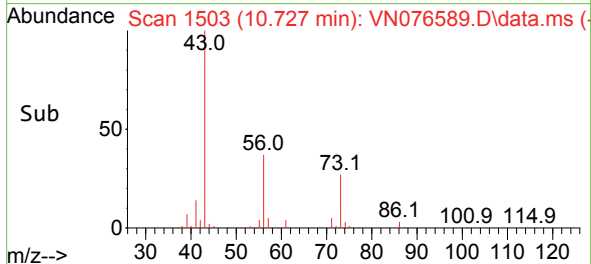
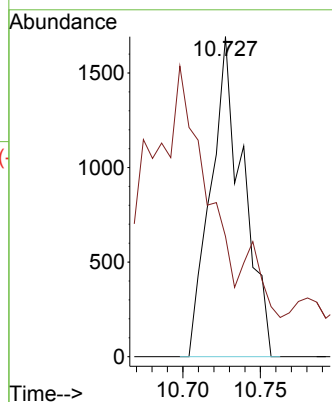
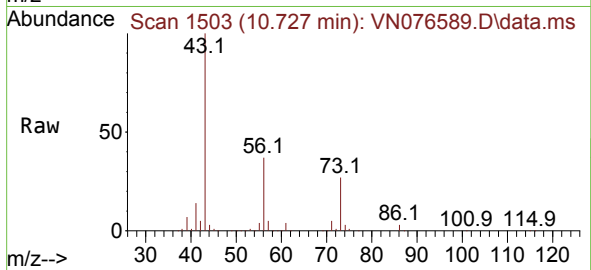




#53
 t-1,3-Dichloropropene
 Concen: 0.262 ug/l
 RT: 10.727 min Scan# 11
 Delta R.T. -0.108 min
 Lab File: VN076589.D
 Acq: 08 Feb 2023 18:58

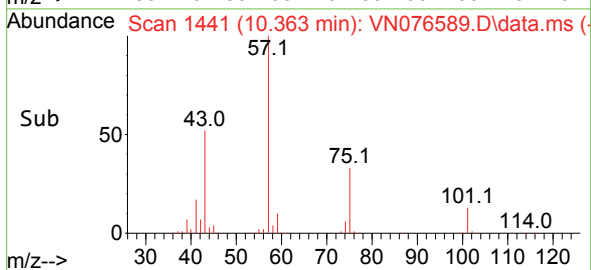
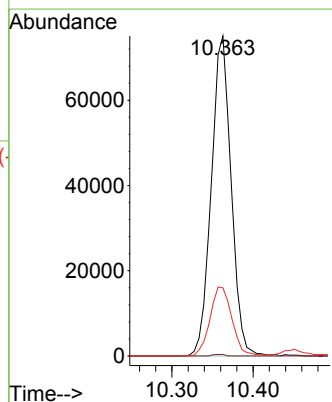
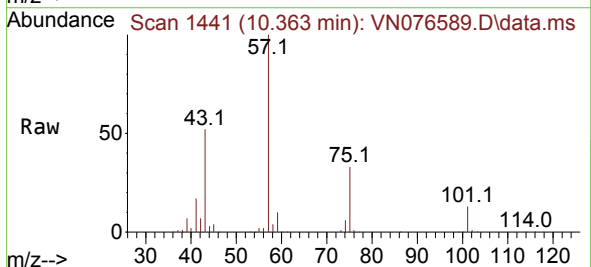
Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-1

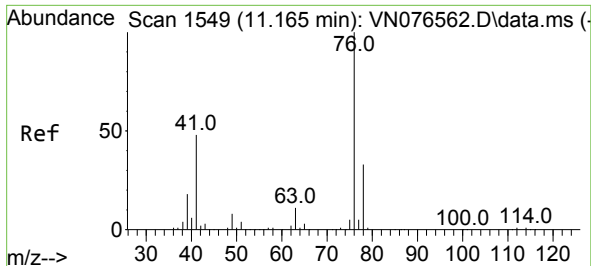
Tgt Ion: 75 Resp: 2439
 Ion Ratio Lower Upper
 75 100
 77 25.4 24.5 36.7



#54
 cis-1,3-Dichloropropene
 Concen: 11.999 ug/l
 RT: 10.363 min Scan# 1441
 Delta R.T. 0.045 min
 Lab File: VN076589.D
 Acq: 08 Feb 2023 18:58

Tgt Ion: 75 Resp: 127420
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.4 38.0#
 39 21.3 31.1 46.7#





#57

1,3-Dichloropropane

Concen: 1.351 ug/l

RT: 11.204 min Scan# 1584

Delta R.T. 0.039 min

Lab File: VN076589.D

Acq: 08 Feb 2023 18:58

Instrument :

MSVOA_N

ClientSampleId :

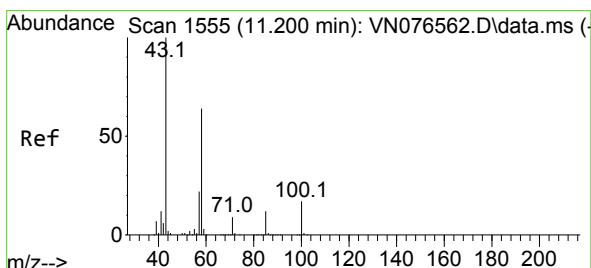
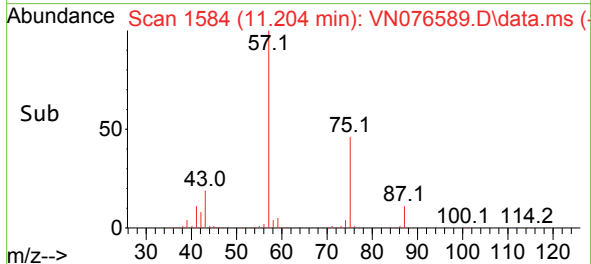
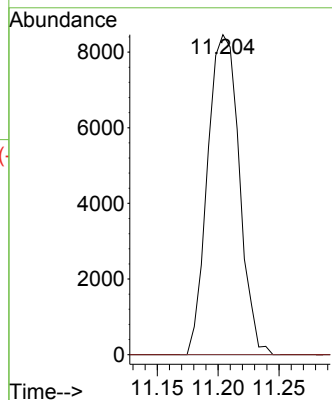
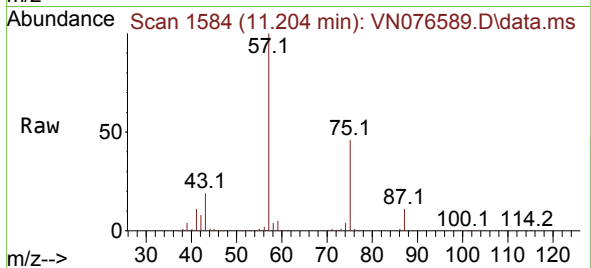
TCLP-1

Tgt Ion: 76 Resp: 15295

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 55.580 ug/l

RT: 11.174 min Scan# 1579

Delta R.T. -0.026 min

Lab File: VN076589.D

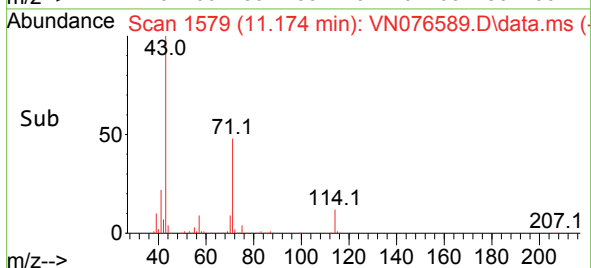
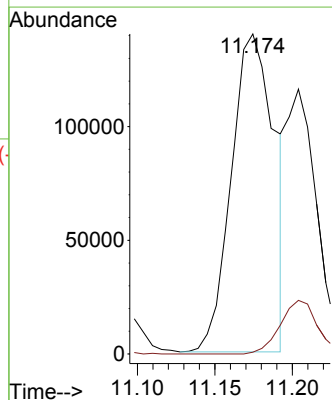
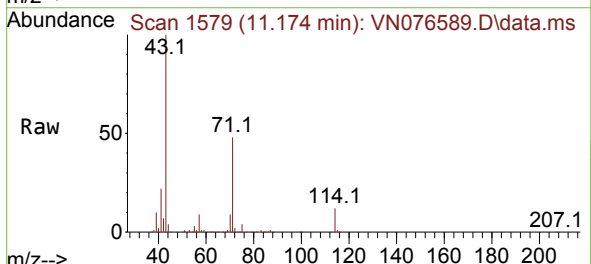
Acq: 08 Feb 2023 18:58

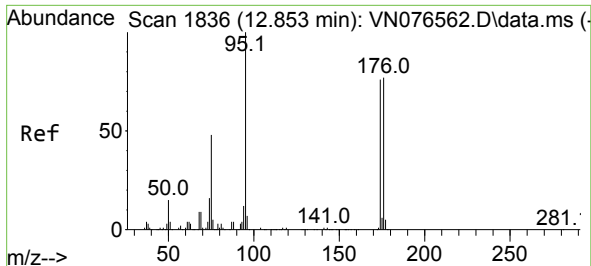
Tgt Ion: 43 Resp: 270937

Ion Ratio Lower Upper

43 100

58 0.0 31.8 95.4#

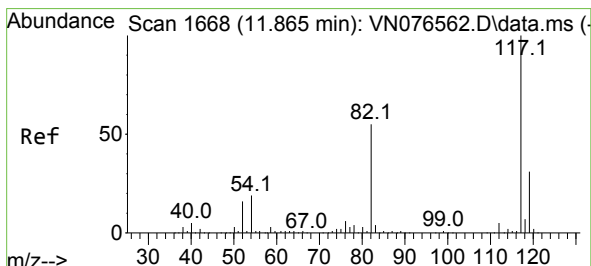
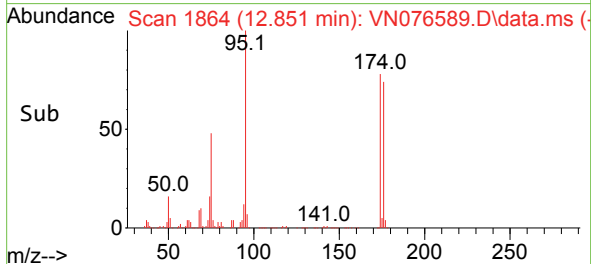
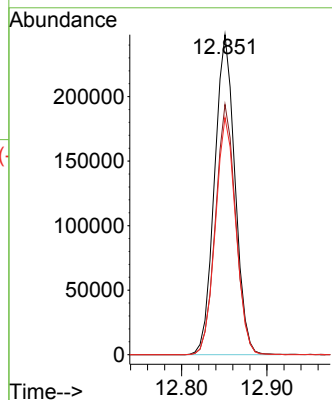
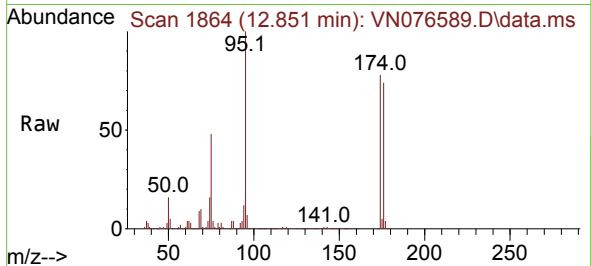




#62
4-Bromofluorobenzene
Concen: 48.724 ug/l
RT: 12.851 min Scan# 1836
Delta R.T. -0.002 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

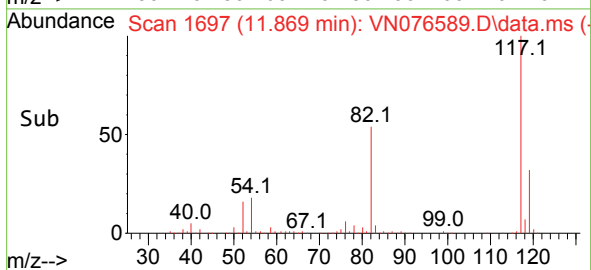
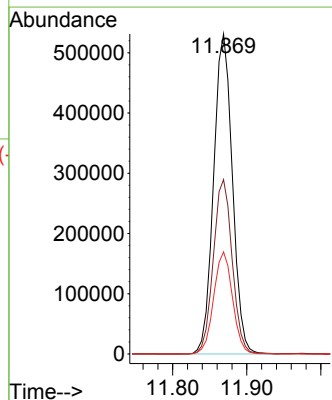
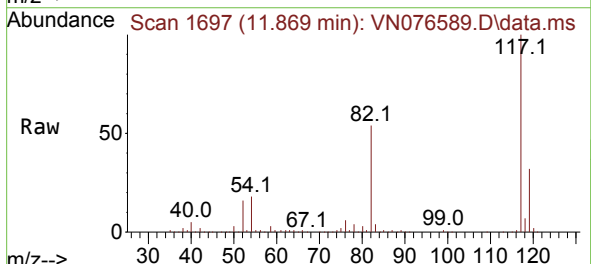
Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

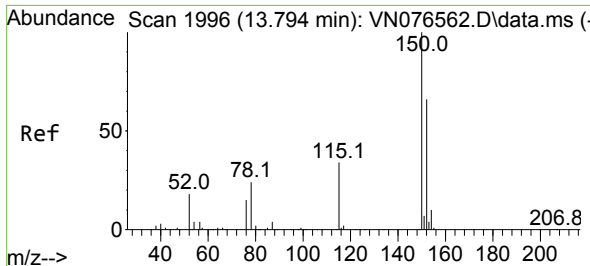
Tgt Ion: 95 Resp: 412754
Ion Ratio Lower Upper
95 100
174 77.2 0.0 154.0
176 74.1 0.0 152.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.869 min Scan# 1697
Delta R.T. 0.004 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 117 Resp: 935237
Ion Ratio Lower Upper
117 100
82 54.5 44.2 66.4
119 31.9 25.1 37.7

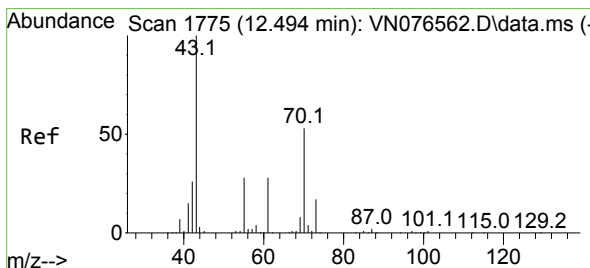
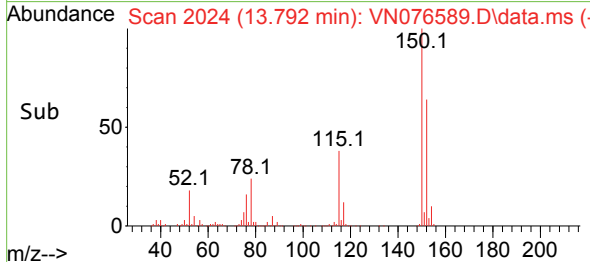
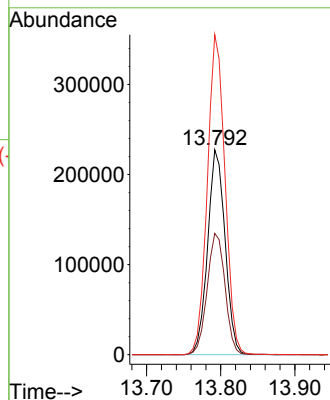
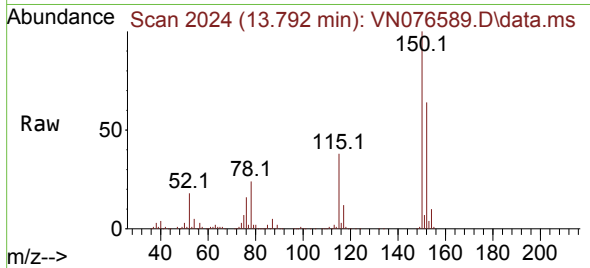




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.792 min Scan# 20
Delta R.T. -0.002 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

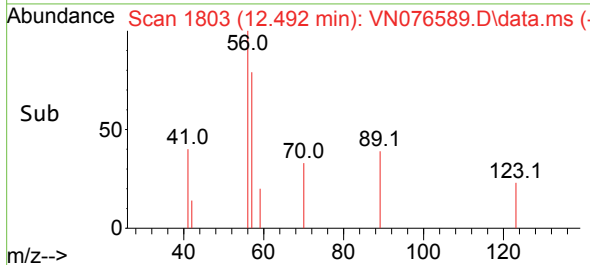
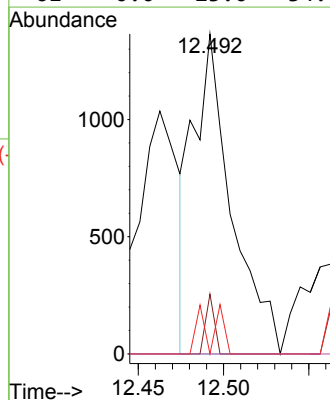
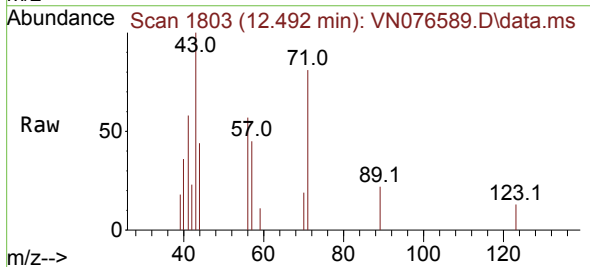
Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

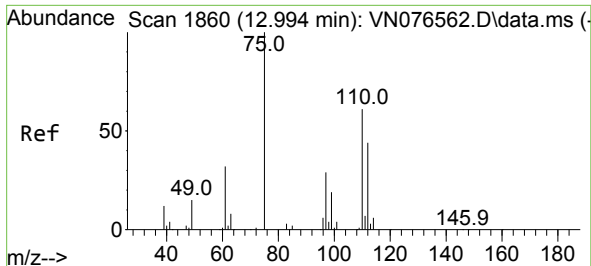
Tgt Ion:152 Resp: 372596
Ion Ratio Lower Upper
152 100
115 60.6 30.8 92.3
150 157.6 0.0 348.8



#74
N-ethyl acetate
Concen: 0.252 ug/l
RT: 12.492 min Scan# 1803
Delta R.T. -0.002 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 43 Resp: 2144
Ion Ratio Lower Upper
43 100
70 4.2 43.1 64.7#
55 6.9 22.4 33.6#
61 0.0 23.0 34.4#

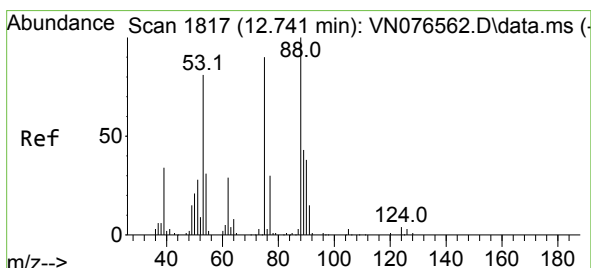
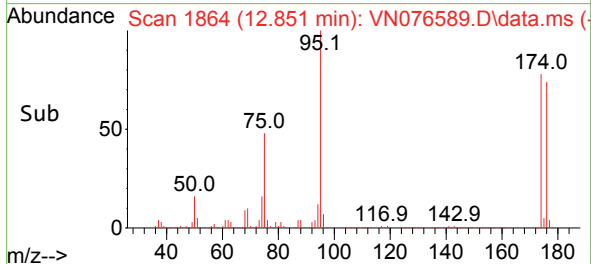
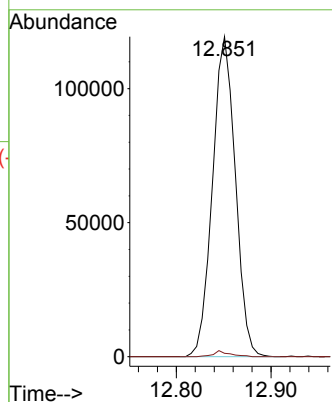
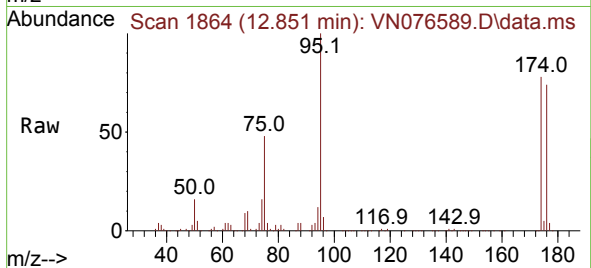




#76
1,2,3-Trichloropropane
Concen: 28.792 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. -0.143 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Instrument :
MSVOA_N
ClientSampleId :
TCLP-1

Tgt Ion: 75 Resp: 200152
Ion Ratio Lower Upper
75 100
77 1.3 87.5 262.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.409 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. 0.110 min
Lab File: VN076589.D
Acq: 08 Feb 2023 18:58

Tgt Ion: 75 Resp: 200152
Ion Ratio Lower Upper
75 100
53 0.0 77.1 115.7#
89 0.0 41.5 62.3#

