

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103122\
 Data File : VN075084.D
 Acq On : 31 Oct 2022 14:10
 Operator : JC\MD
 Sample : N5316-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-GRAB-3-PILE-2

Quant Time: Nov 01 06:16:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

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

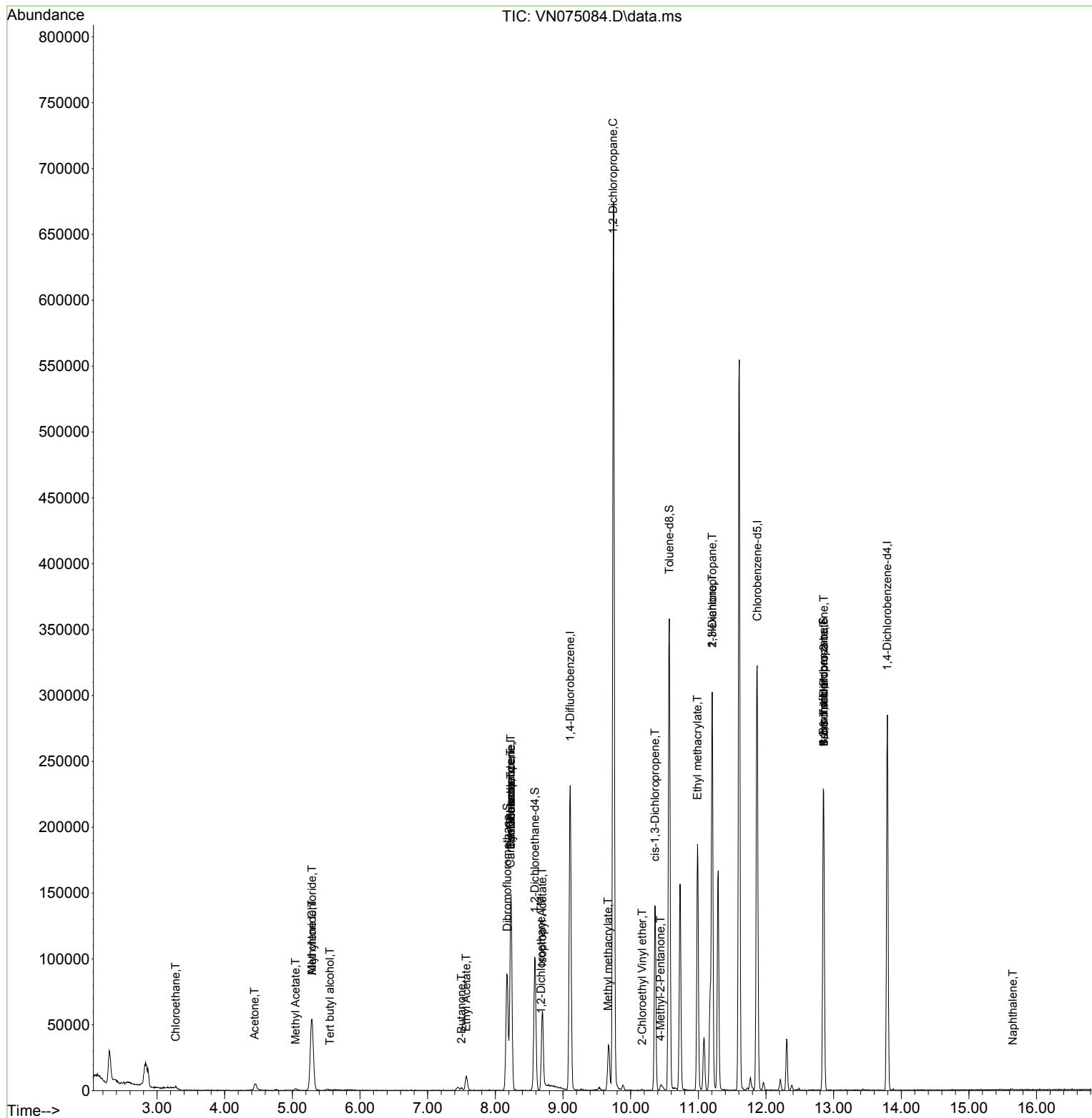
Internal Standards						
1) Pentafluorobenzene	8.230	168	102472	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	201589	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	186797	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	72417	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	83538	60.505	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.000%			
35) Dibromofluoromethane	8.177	113	64521	54.520	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.040%			
50) Toluene-d8	10.571	98	249120	54.258	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.520%			
62) 4-Bromofluorobenzene	12.847	95	80262	49.764	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.520%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.942	94	62	Below Cal	#	5
6) Chloroethane	3.277	64	884	0.610	ug/l #	45
11) Tert butyl alcohol	5.553	59	219	0.680	ug/l #	72
14) Allyl chloride	5.289	41	1020	0.643	ug/l #	19
16) Acetone	4.442	43	10062	17.211	ug/l	97
18) Methyl Acetate	5.047	43	2573	1.347	ug/l	91
20) Methylene Chloride	5.289	84	44605	34.220	ug/l	92
25) 2-Butanone	7.500	43	3038	3.304	ug/l	99
31) Cyclohexane	8.230	56	2421	1.179	ug/l #	34
36) 1,1-Dichloropropene	8.230	75	9319	5.086	ug/l #	50
37) Ethyl Acetate	7.571	43	15517	7.723	ug/l	97
38) Carbon Tetrachloride	8.224	117	11728	5.819	ug/l #	15
42) 1,2-Dichloroethane	8.677	62	498	0.244	ug/l #	75
43) Isopropyl Acetate	8.694	43	68853	22.092	ug/l #	89
45) 1,2-Dichloropropane	9.741	63	932	0.698	ug/l #	42
48) Methyl methacrylate	9.665	41	1863	1.303	ug/l #	38
51) 4-Methyl-2-Pentanone	10.441	43	2939	1.461	ug/l	97
54) cis-1,3-Dichloropropene	10.359	75	26558	11.778	ug/l #	68
56) Ethyl methacrylate	10.988	69	548	0.242	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	3150	1.272	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.171	63	225	0.257	ug/l #	44
59) 2-Hexanone	11.206	43	34977	22.914	ug/l #	56
71) Bromoform	12.853	173	708	0.639	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	45381	29.514	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	45381	75.762	ug/l #	10
95) Naphthalene	15.647	128	844	0.205	ug/l #	77

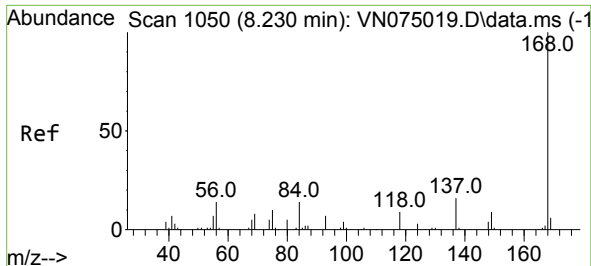
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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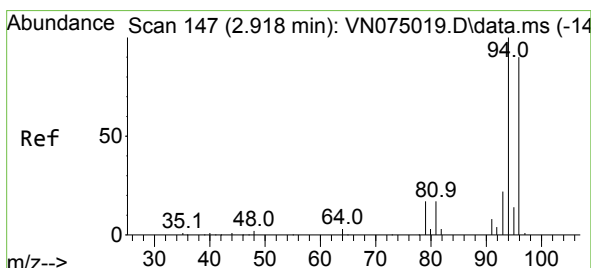
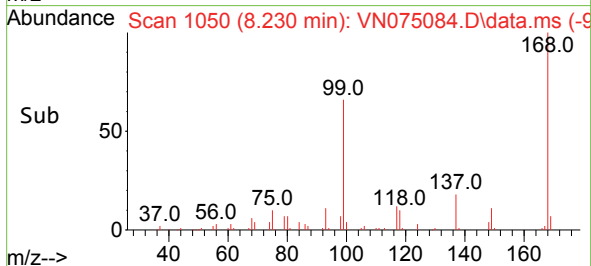
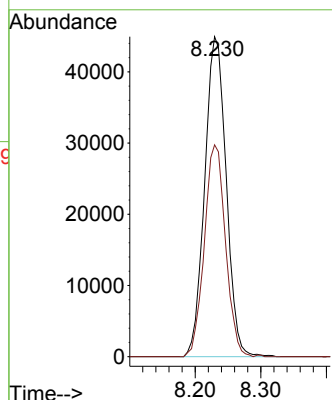
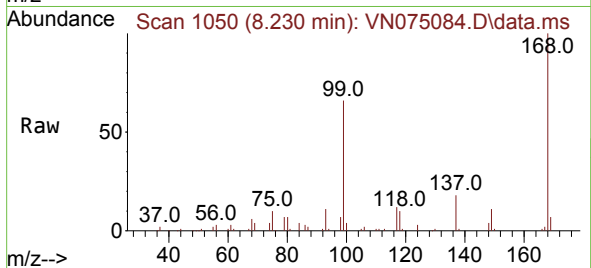




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

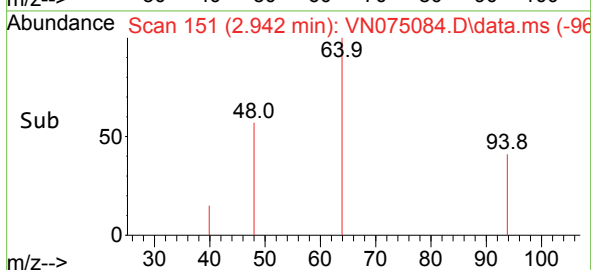
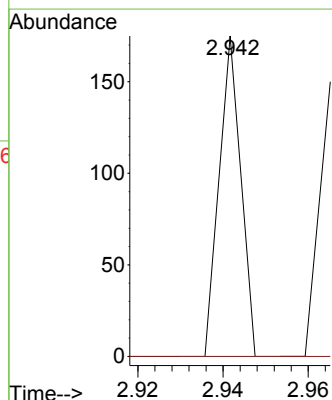
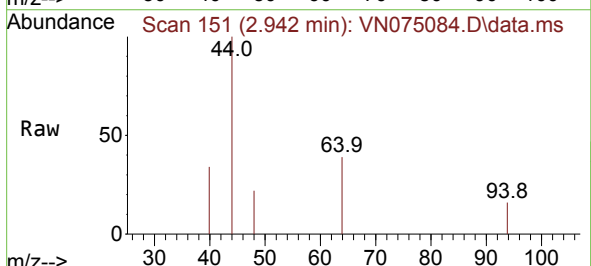
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-GRAB-3-PILE-2

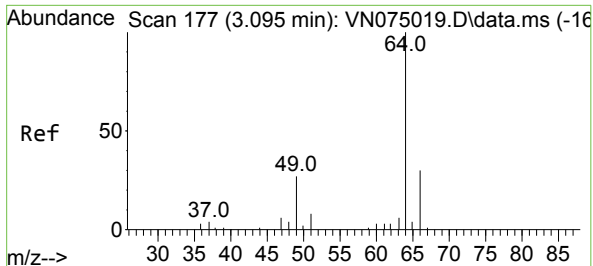
Tgt Ion:168 Resp: 102472
Ion Ratio Lower Upper
168 100
99 66.2 51.6 77.4



#5
Bromomethane
Concen: Below Cal
RT: 2.942 min Scan# 151
Delta R.T. 0.024 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 94 Resp: 62
Ion Ratio Lower Upper
94 100
96 0.0 71.8 107.6#

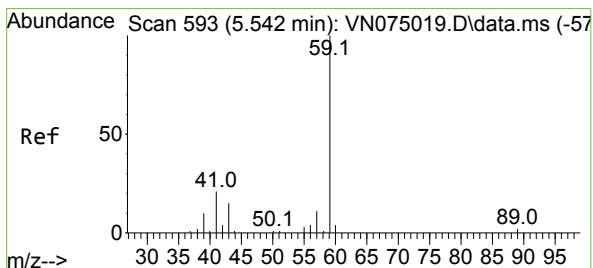
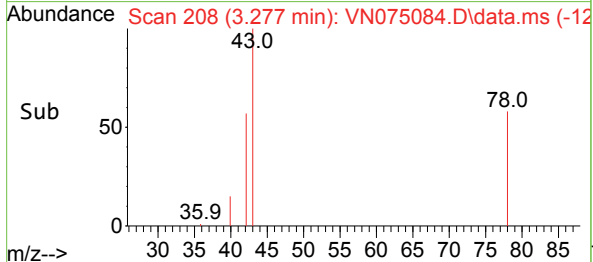
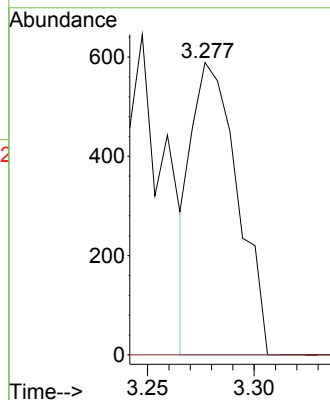
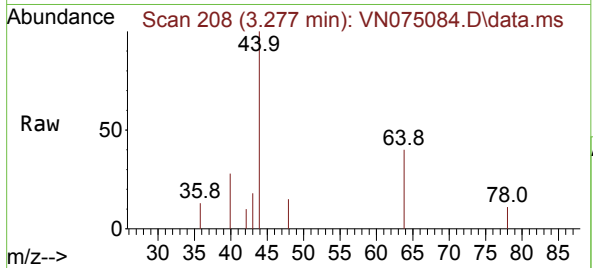




#6
Chloroethane
Concen: 0.610 ug/l
RT: 3.277 min Scan# 20
Delta R.T. 0.182 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

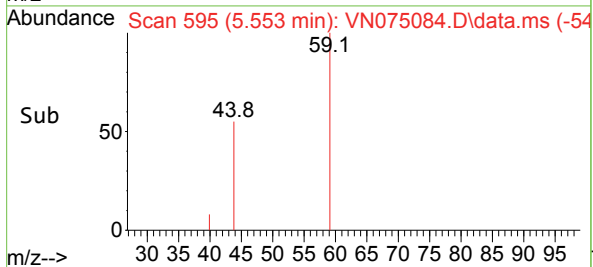
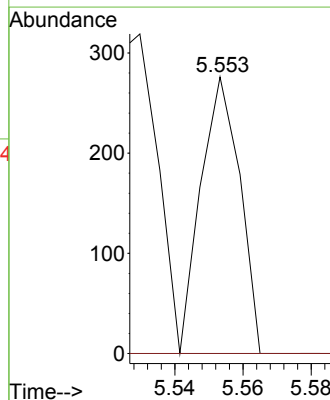
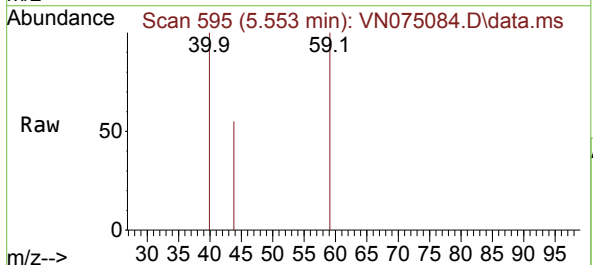
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-GRAB-3-PILE-2

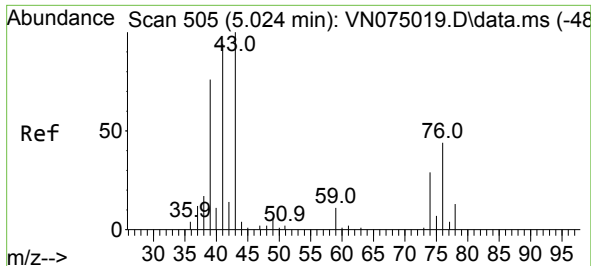
Tgt Ion: 64 Resp: 884
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#



#11
Tert butyl alcohol
Concen: 0.680 ug/l
RT: 5.553 min Scan# 595
Delta R.T. 0.011 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 59 Resp: 219
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

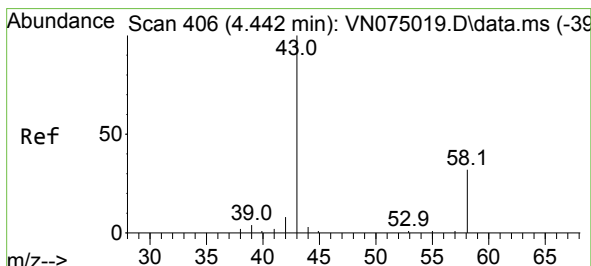
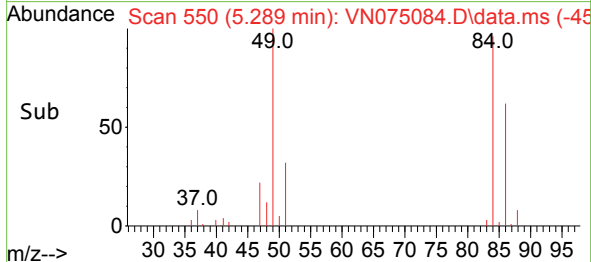
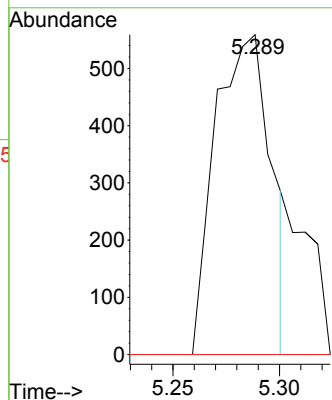
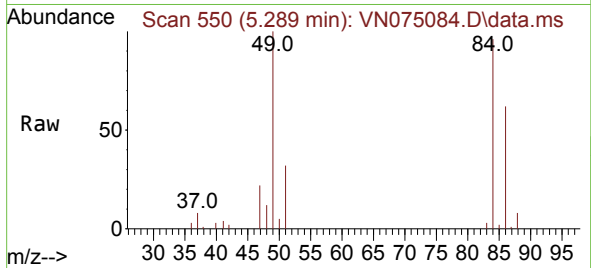




#14
 Allyl chloride
 Concen: 0.643 ug/l
 RT: 5.289 min Scan# 51
 Delta R.T. 0.265 min
 Lab File: VN075084.D
 Acq: 31 Oct 2022 14:10

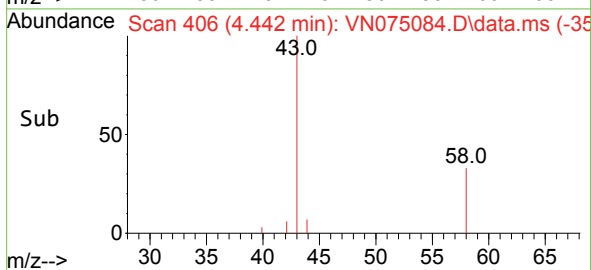
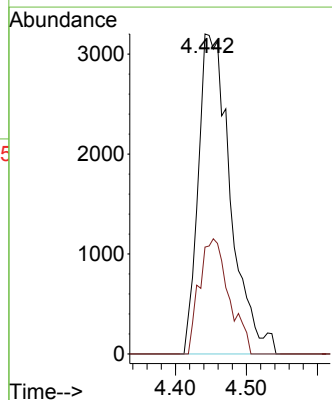
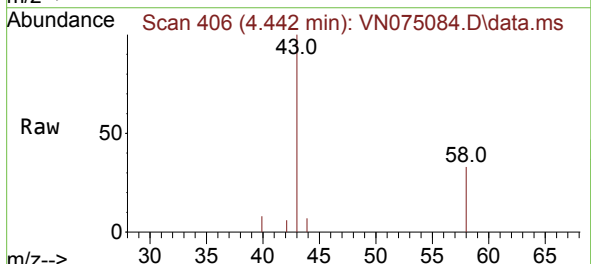
Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-GRAB-3-PILE-2

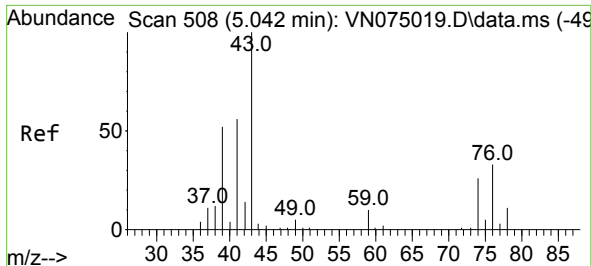
Tgt Ion: 41 Resp: 1020
 Ion Ratio Lower Upper
 41 100
 39 0.0 61.0 91.4#
 76 0.0 33.4 50.0#



#16
 Acetone
 Concen: 17.211 ug/l
 RT: 4.442 min Scan# 406
 Delta R.T. -0.000 min
 Lab File: VN075084.D
 Acq: 31 Oct 2022 14:10

Tgt Ion: 43 Resp: 10062
 Ion Ratio Lower Upper
 43 100
 58 33.4 25.5 38.3

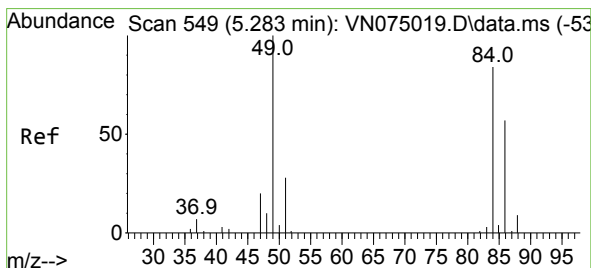
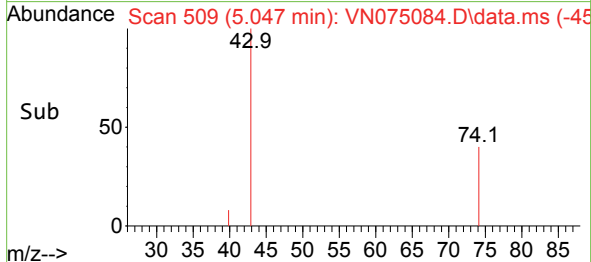
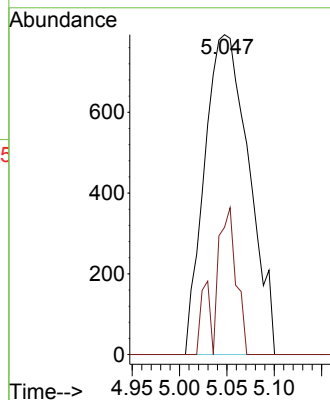
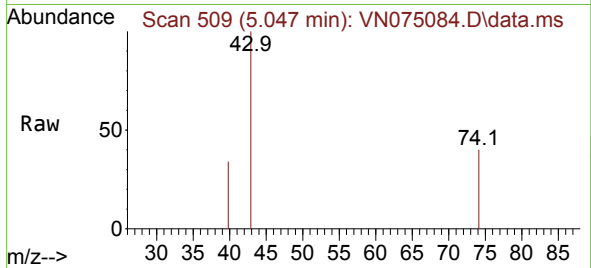




#18
Methyl Acetate
Concen: 1.347 ug/l
RT: 5.047 min Scan# 508
Delta R.T. 0.005 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

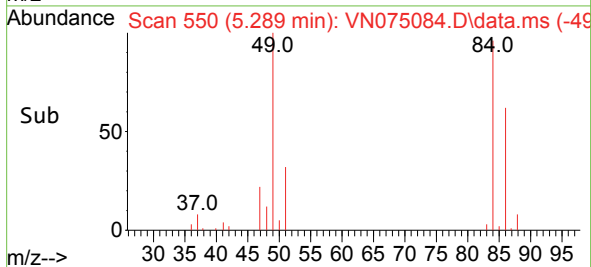
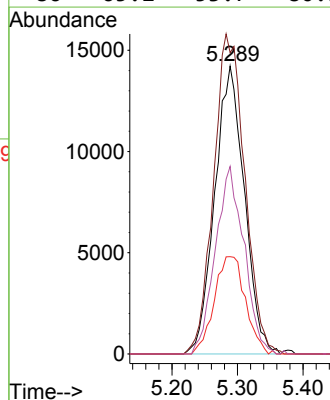
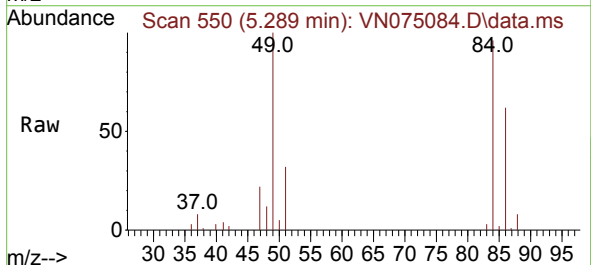
Instrument :
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TCLP-VOC-GRAB-3-PILE-2

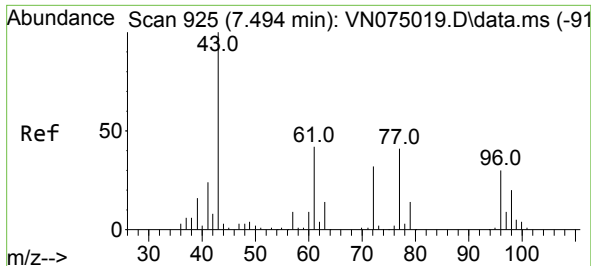
Tgt Ion: 43 Resp: 2573
Ion Ratio Lower Upper
43 100
74 22.5 22.0 33.0



#20
Methylene Chloride
Concen: 34.220 ug/l
RT: 5.289 min Scan# 550
Delta R.T. 0.006 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 84 Resp: 44605
Ion Ratio Lower Upper
84 100
49 104.7 94.9 142.3
51 33.8 26.8 40.2
86 65.2 53.7 80.5

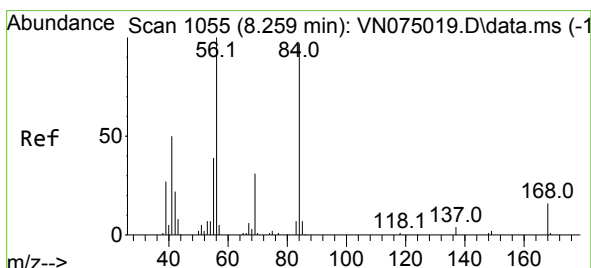
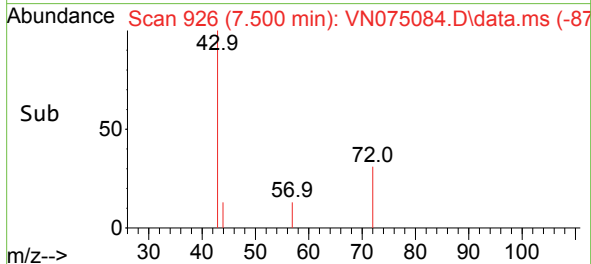
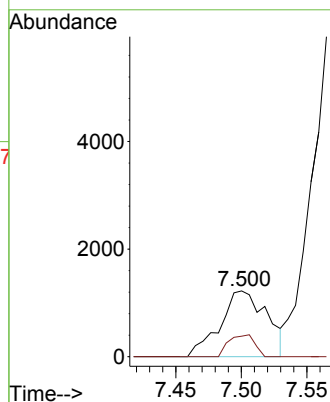
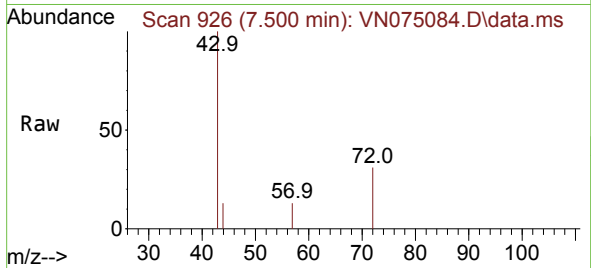




#25
2-Butanone
Concen: 3.304 ug/l
RT: 7.500 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

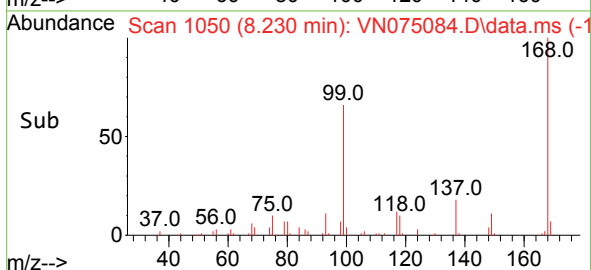
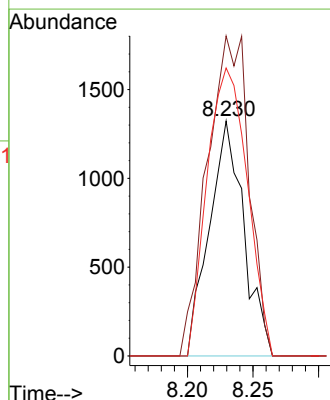
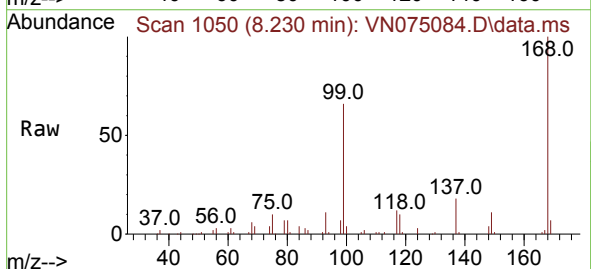
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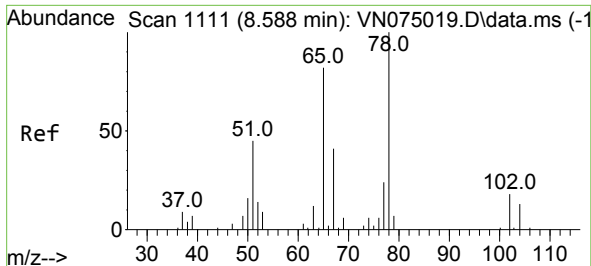
Tgt Ion: 43 Resp: 3038
Ion Ratio Lower Upper
43 100
72 31.2 25.5 38.3



#31
Cyclohexane
Concen: 1.179 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 56 Resp: 2421
Ion Ratio Lower Upper
56 100
69 136.2 25.2 37.8#
84 122.6 77.8 116.8#





#33

1,2-Dichloroethane-d4

Concen: 60.505 ug/l

RT: 8.582 min Scan# 1111

Delta R.T. -0.006 min

Lab File: VN075084.D

Acq: 31 Oct 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

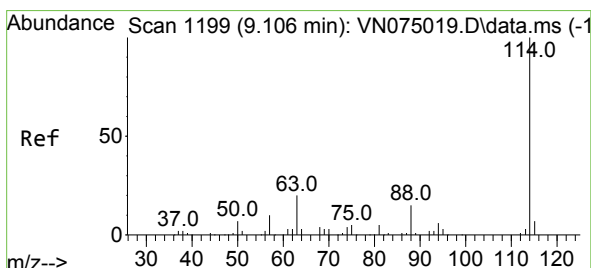
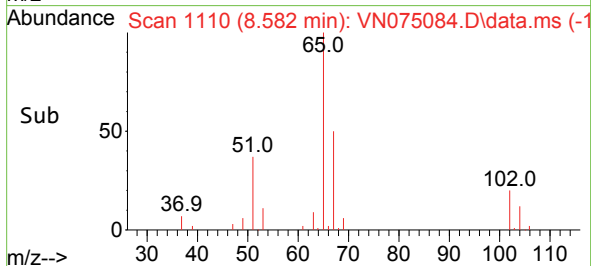
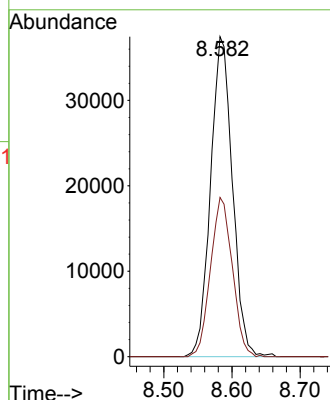
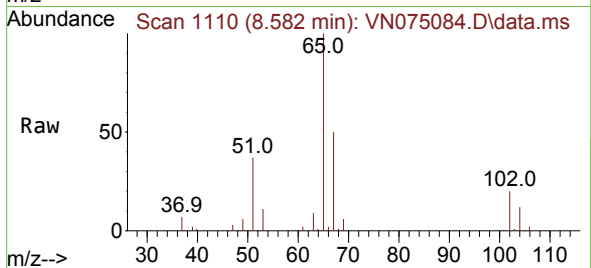
TCLP-VOC-GRAB-3-PILE-2

Tgt Ion: 65 Resp: 83538

Ion Ratio Lower Upper

65 100

67 49.7 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075084.D

Acq: 31 Oct 2022 14:10

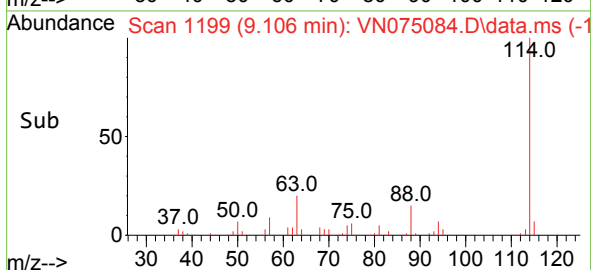
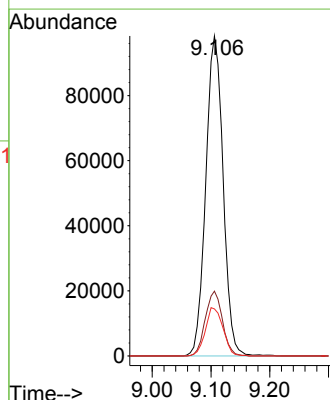
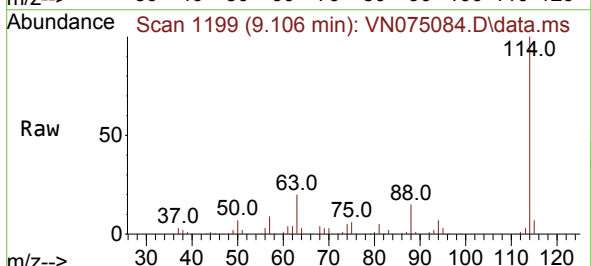
Tgt Ion: 114 Resp: 201589

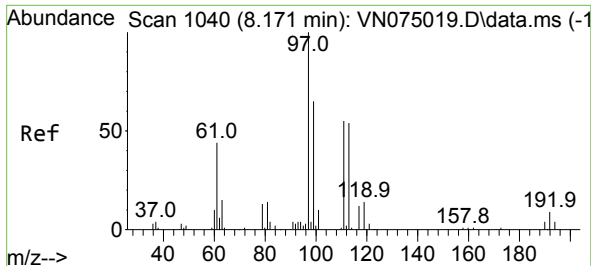
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

88 14.7 0.0 29.0

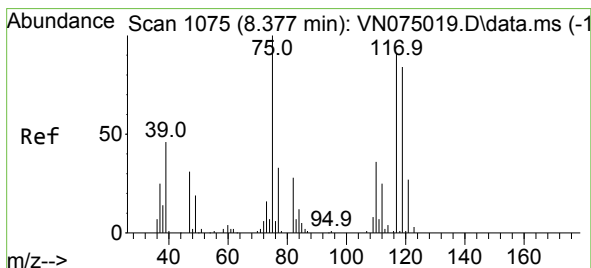
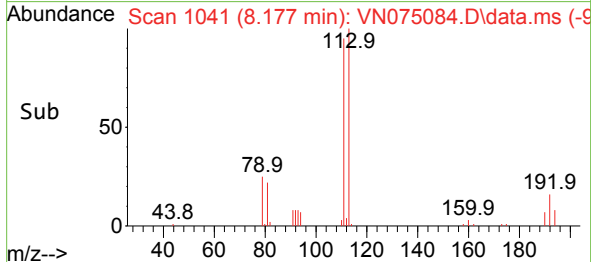
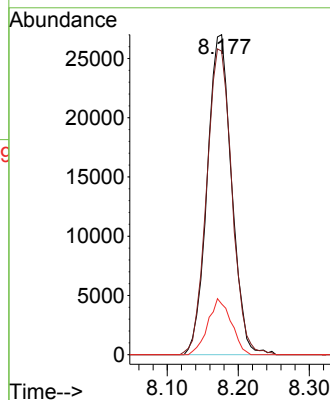
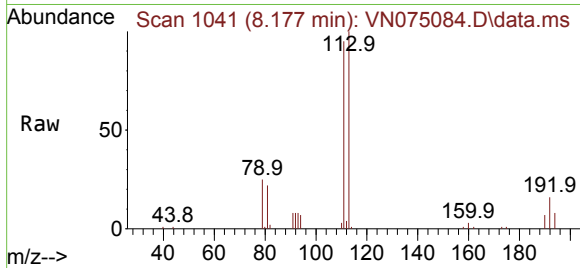




#35
Dibromofluoromethane
Concen: 54.520 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

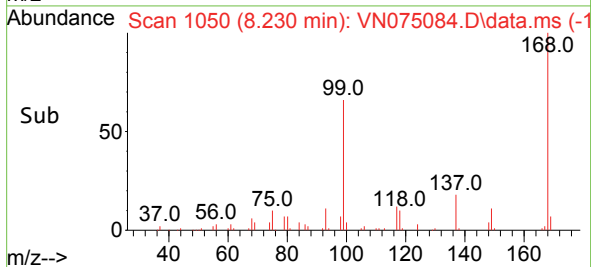
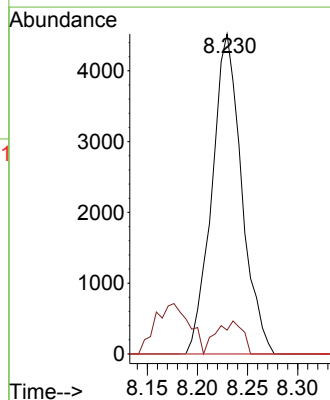
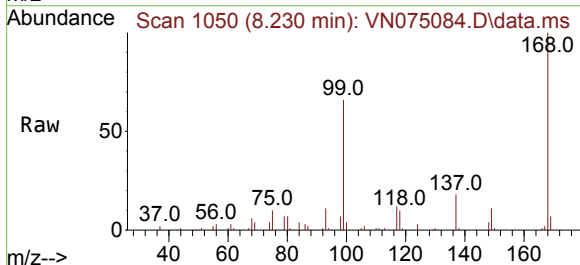
Instrument :
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TCLP-VOC-GRAB-3-PILE-2

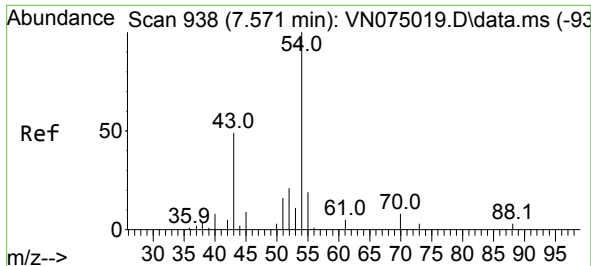
Tgt Ion:113 Resp: 64521
Ion Ratio Lower Upper
113 100
111 98.6 80.5 120.7
192 16.7 13.2 19.8



#36
1,1-Dichloropropene
Concen: 5.086 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 75 Resp: 9319
Ion Ratio Lower Upper
75 100
110 9.1 17.8 53.3#
77 0.0 24.6 37.0#

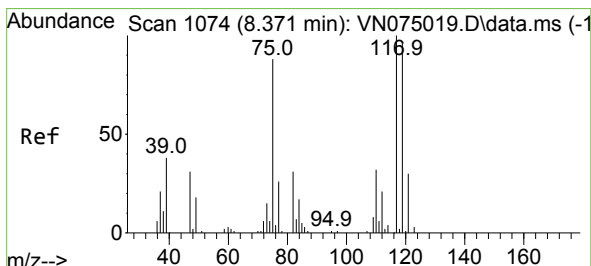
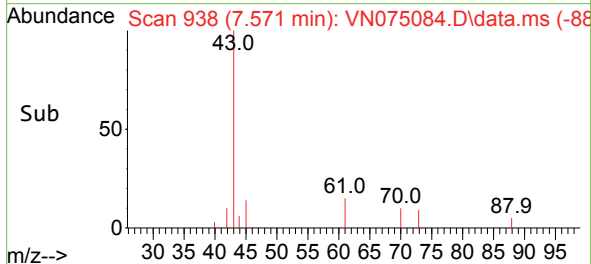
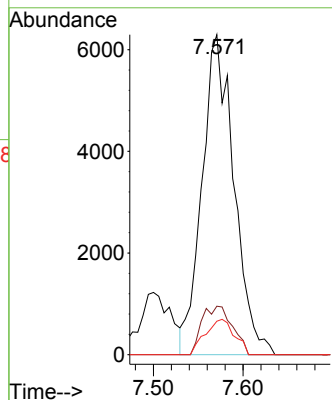
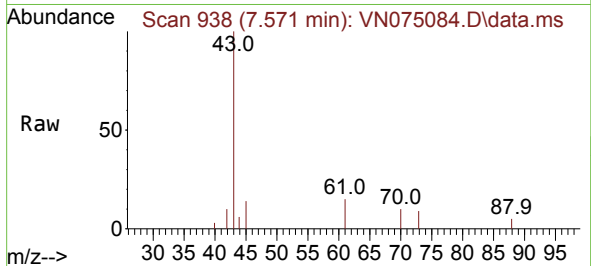




#37
Ethyl Acetate
Concen: 7.723 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

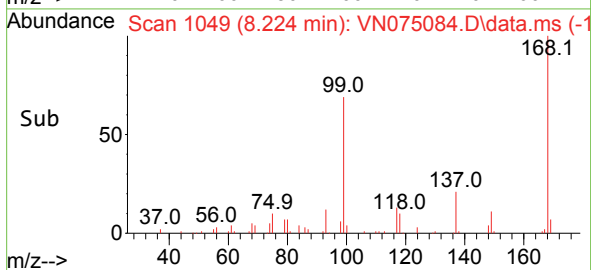
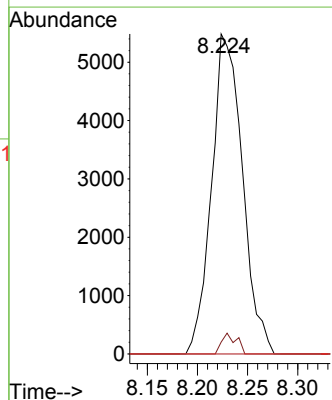
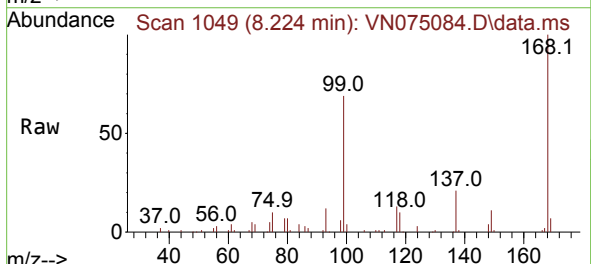
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-GRAB-3-PILE-2

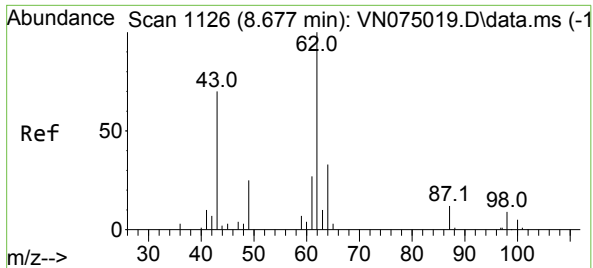
Tgt Ion:	43	Resp:	15517
Ion	Ratio	Lower	Upper
43	100		
61	14.5	12.2	18.4
70	10.1	9.4	14.2



#38
Carbon Tetrachloride
Concen: 5.819 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.147 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion:	117	Resp:	11728
Ion	Ratio	Lower	Upper
117	100		
119	3.7	76.7	115.1#
121	0.0	23.9	35.9#





#42

1,2-Dichloroethane

Concen: 0.244 ug/l

RT: 8.677 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN075084.D

Acq: 31 Oct 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

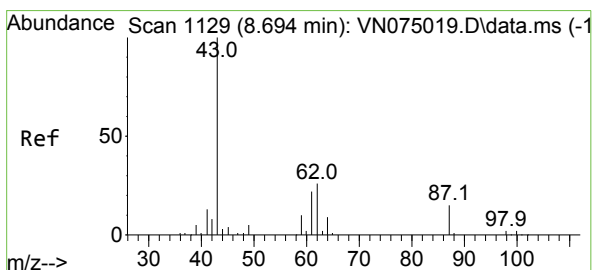
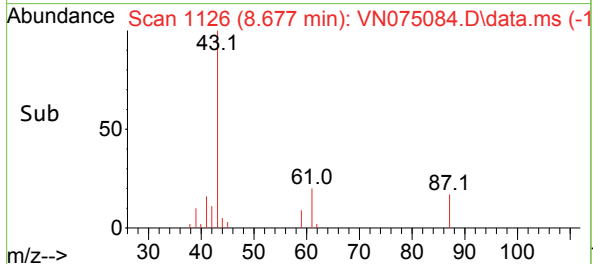
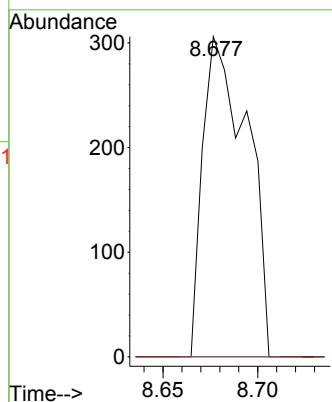
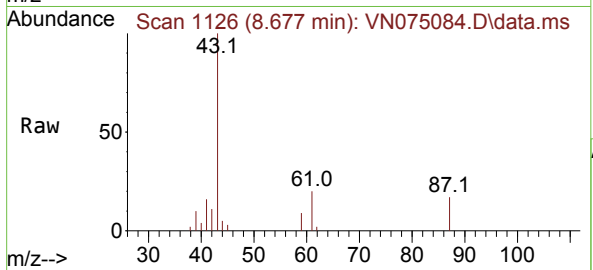
TCLP-VOC-GRAB-3-PILE-2

Tgt Ion: 62 Resp: 498

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 22.092 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN075084.D

Acq: 31 Oct 2022 14:10

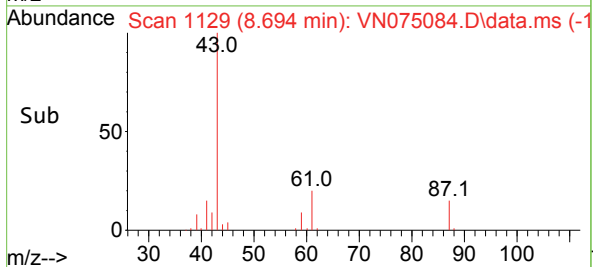
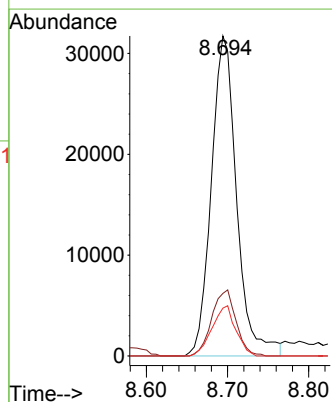
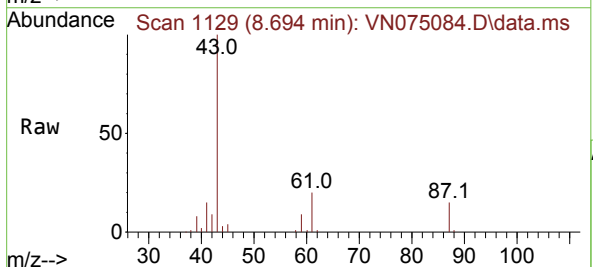
Tgt Ion: 43 Resp: 68853

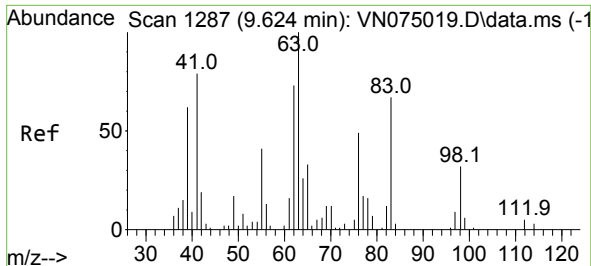
Ion Ratio Lower Upper

43 100

61 19.7 22.4 33.6#

87 14.7 12.5 18.7





#45

1,2-Dichloropropane

Concen: 0.698 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN075084.D

Acq: 31 Oct 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

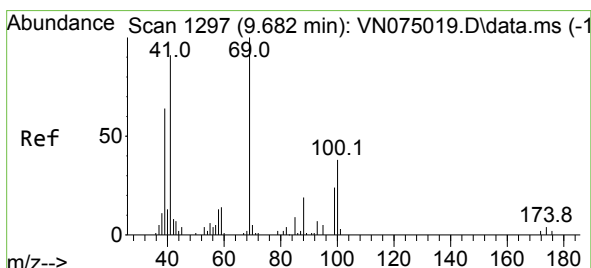
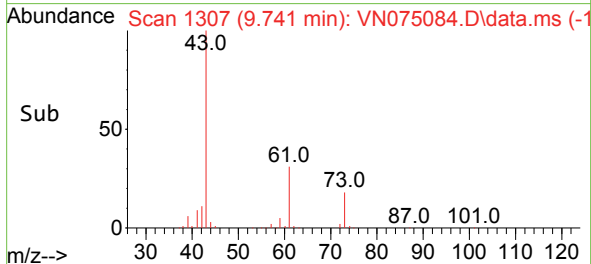
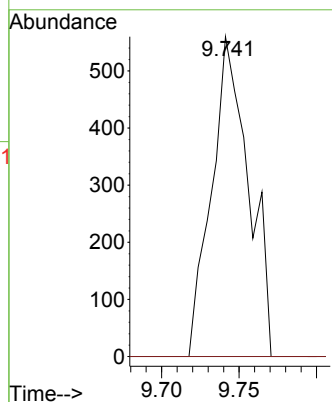
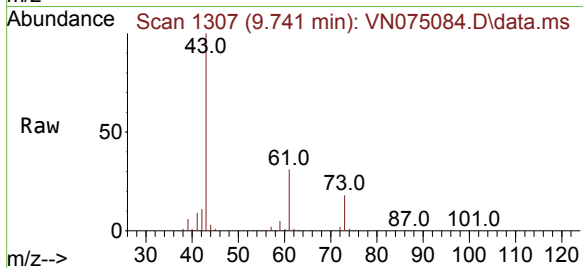
TCLP-VOC-GRAB-3-PILE-2

Tgt Ion: 63 Resp: 932

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.303 ug/l

RT: 9.665 min Scan# 1294

Delta R.T. -0.017 min

Lab File: VN075084.D

Acq: 31 Oct 2022 14:10

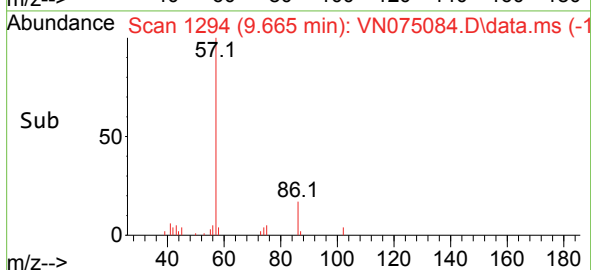
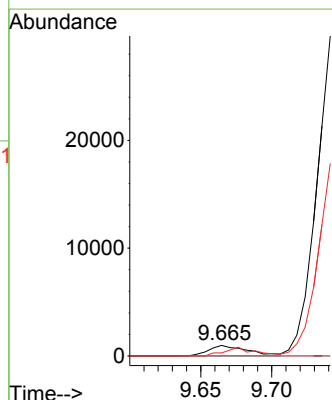
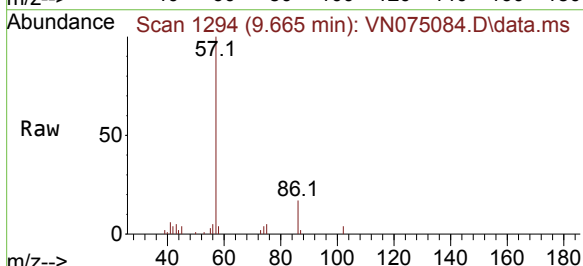
Tgt Ion: 41 Resp: 1863

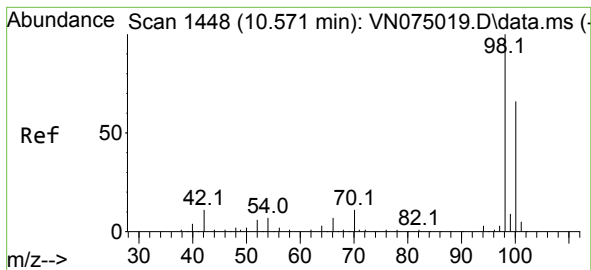
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 64.7 56.2 84.2

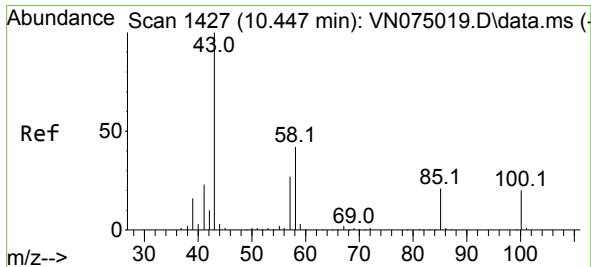
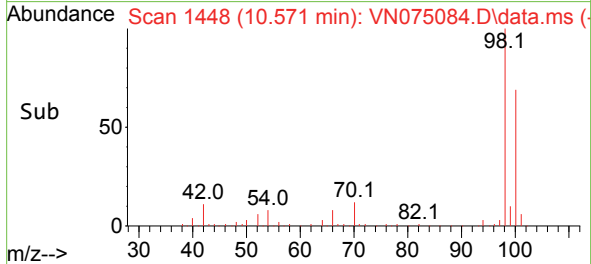
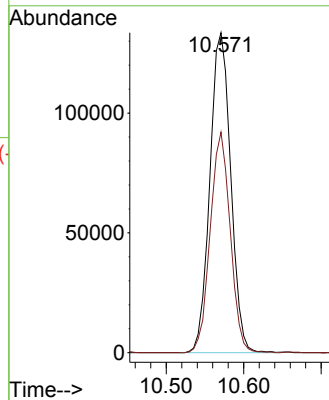
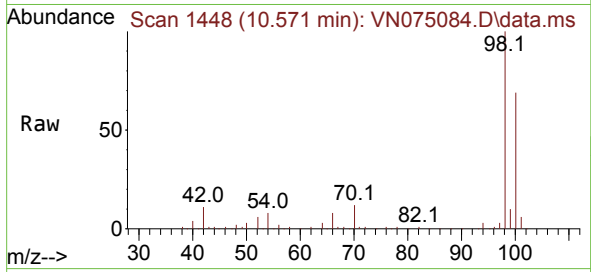




#50
Toluene-d8
Concen: 54.258 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

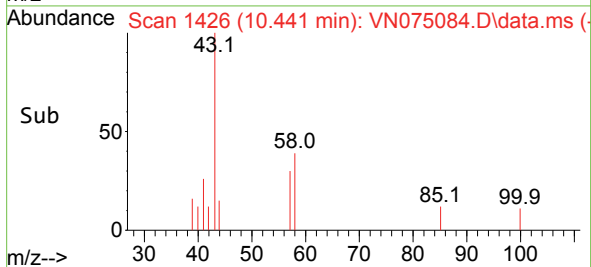
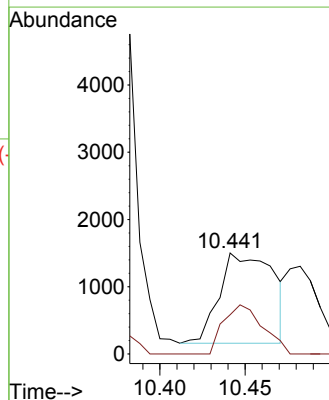
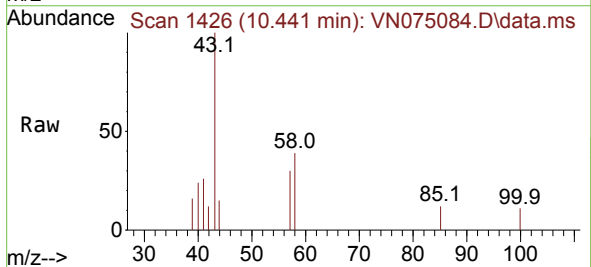
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-GRAB-3-PILE-2

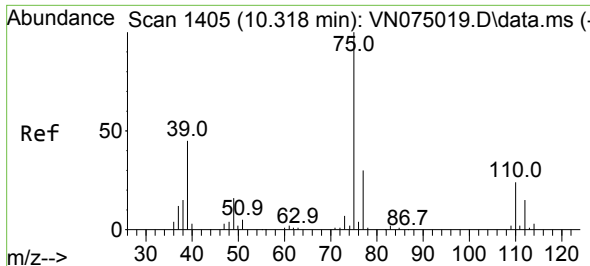
Tgt Ion: 98 Resp: 249120
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 1.461 ug/l
RT: 10.441 min Scan# 1426
Delta R.T. -0.006 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 43 Resp: 2939
Ion Ratio Lower Upper
43 100
58 40.1 33.6 50.4

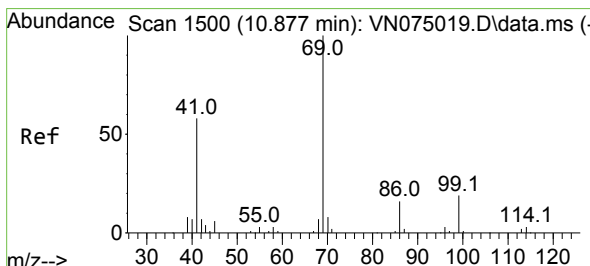
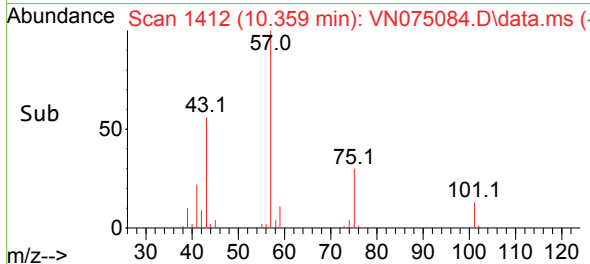
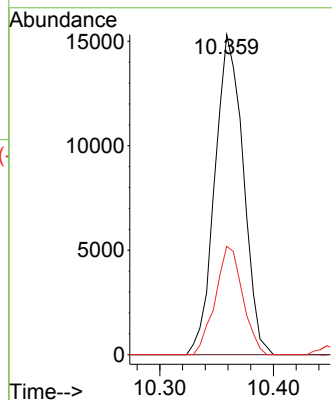
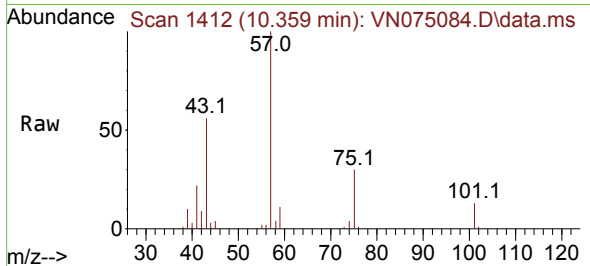




#54
 cis-1,3-Dichloropropene
 Concen: 11.778 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.041 min
 Lab File: VN075084.D
 Acq: 31 Oct 2022 14:10

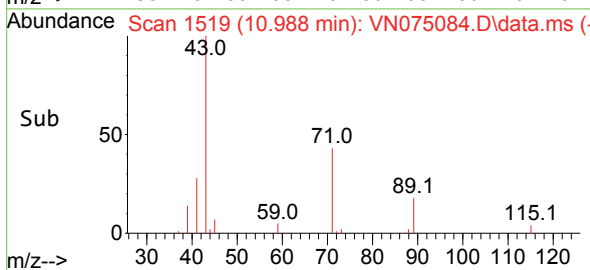
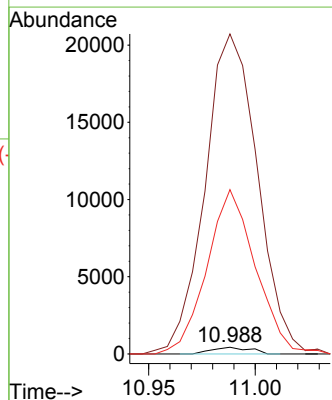
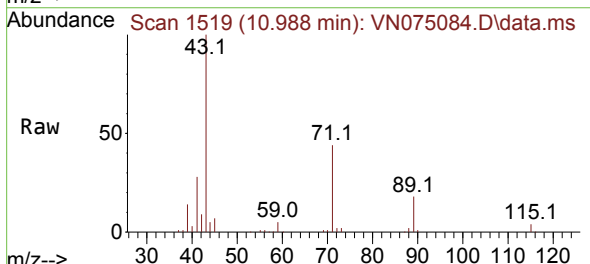
Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-GRAB-3-PILE-2

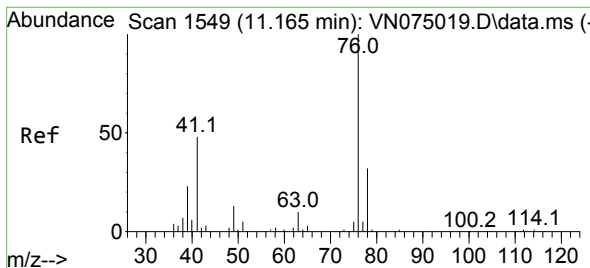
Tgt Ion: 75 Resp: 26558
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.7 35.5#
 39 33.8 35.8 53.6#



#56
 Ethyl methacrylate
 Concen: 0.242 ug/l
 RT: 10.988 min Scan# 1519
 Delta R.T. 0.111 min
 Lab File: VN075084.D
 Acq: 31 Oct 2022 14:10

Tgt Ion: 69 Resp: 548
 Ion Ratio Lower Upper
 69 100
 41 6502.2 45.6 68.4#
 39 3086.1 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 1.272 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN075084.D

Acq: 31 Oct 2022 14:10

Instrument :

MSVOA_N

ClientSampleId :

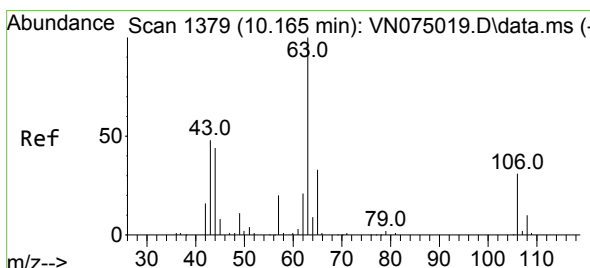
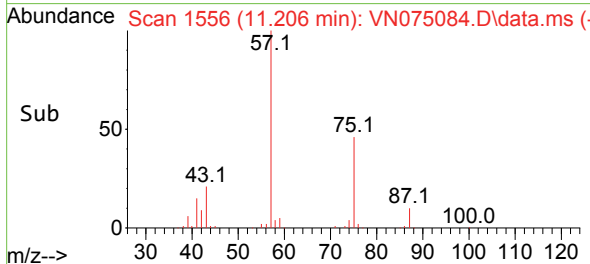
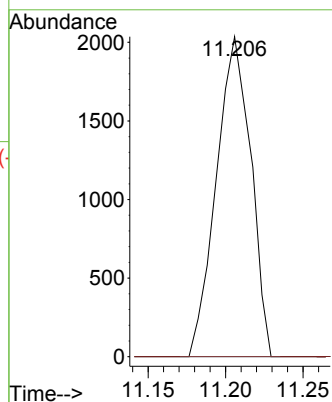
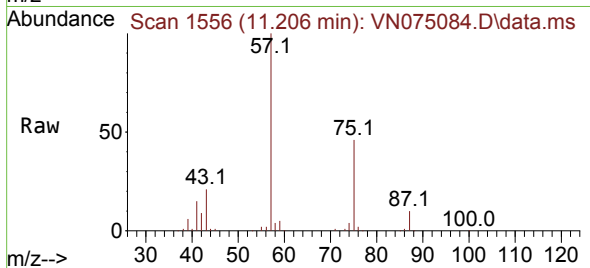
TCLP-VOC-GRAB-3-PILE-2

Tgt Ion: 76 Resp: 3150

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#58

2-Chloroethyl Vinyl ether

Concen: 0.257 ug/l

RT: 10.171 min Scan# 1380

Delta R.T. 0.006 min

Lab File: VN075084.D

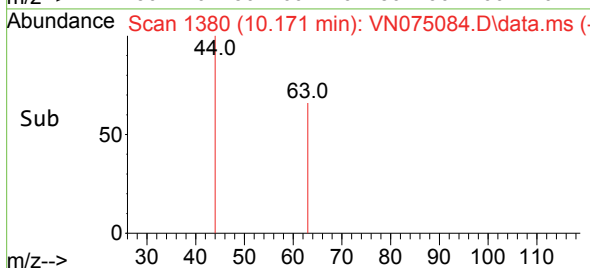
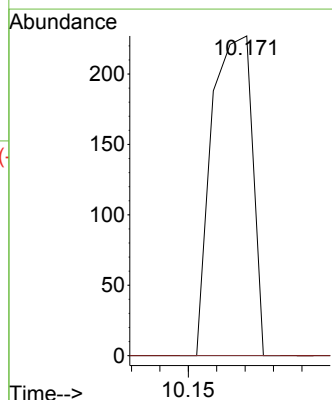
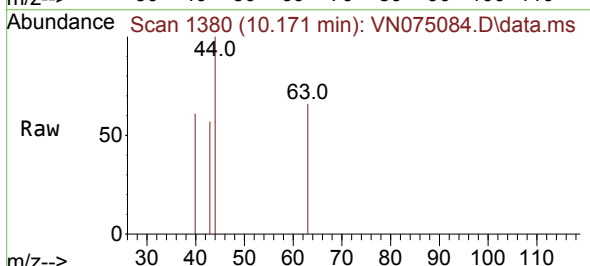
Acq: 31 Oct 2022 14:10

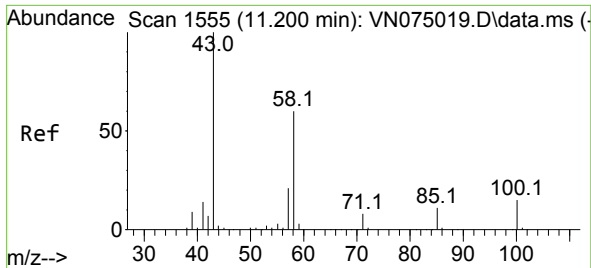
Tgt Ion: 63 Resp: 225

Ion Ratio Lower Upper

63 100

106 0.0 24.8 37.2#

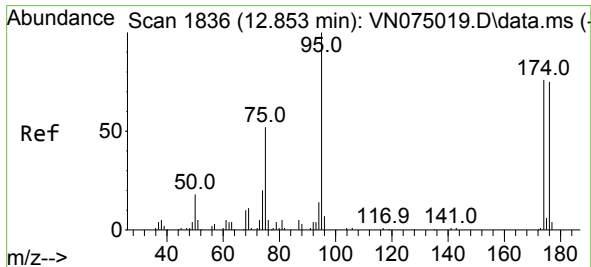
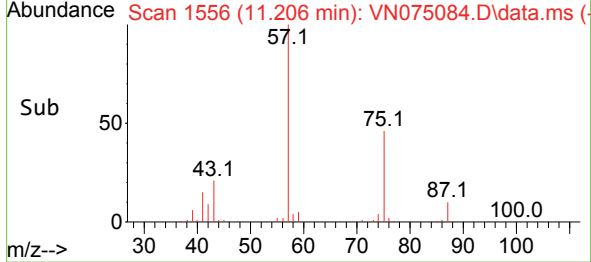
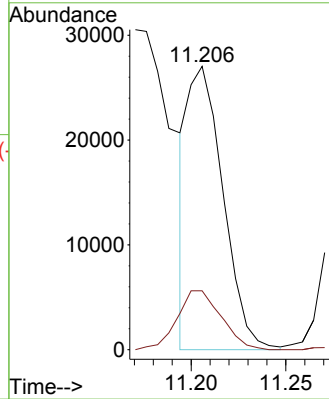
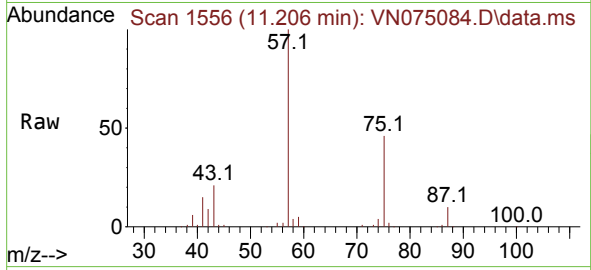




#59
2-Hexanone
Concen: 22.914 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

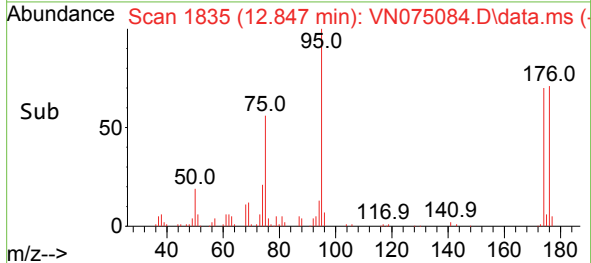
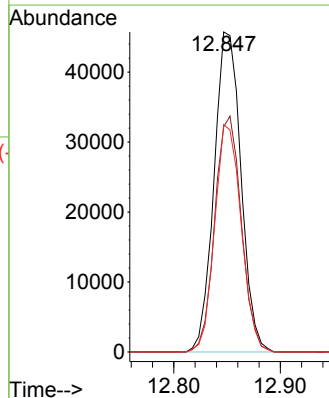
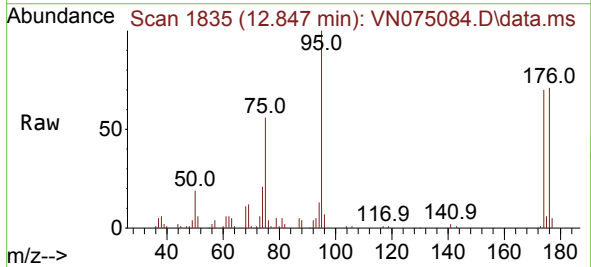
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-GRAB-3-PILE-2

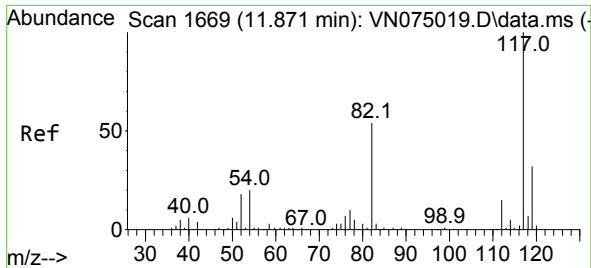
Tgt Ion: 43 Resp: 34977
Ion Ratio Lower Upper
43 100
58 26.1 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 49.764 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.006 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 95 Resp: 80262
Ion Ratio Lower Upper
95 100
174 72.3 0.0 147.4
176 70.0 0.0 142.2

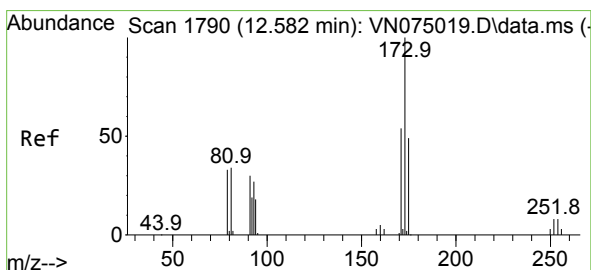
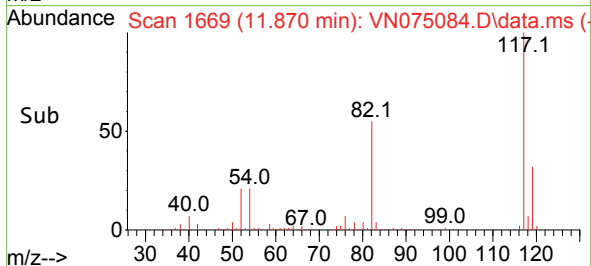
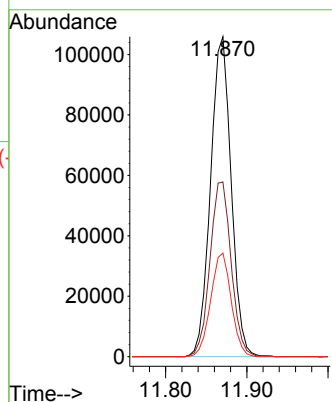
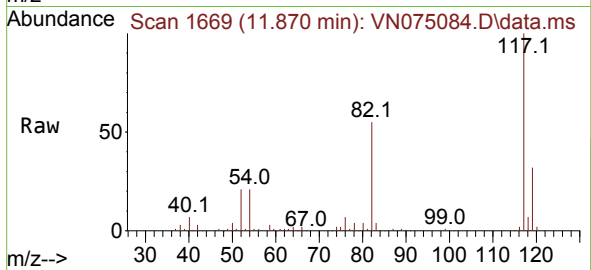




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

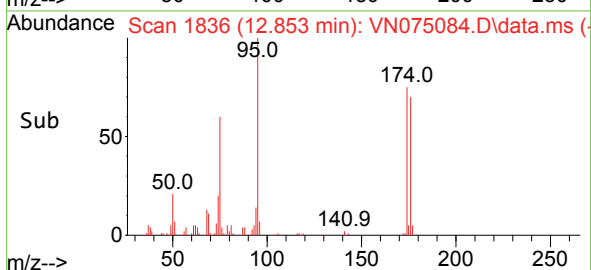
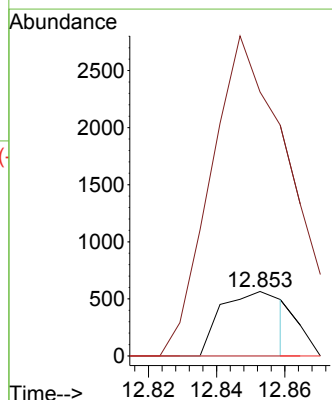
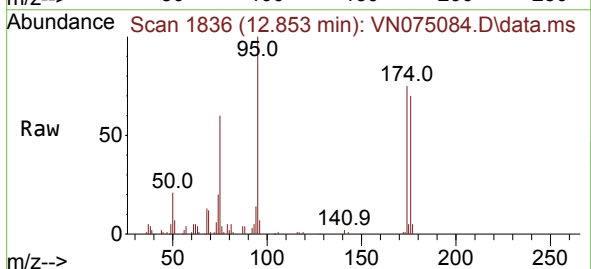
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-GRAB-3-PILE-2

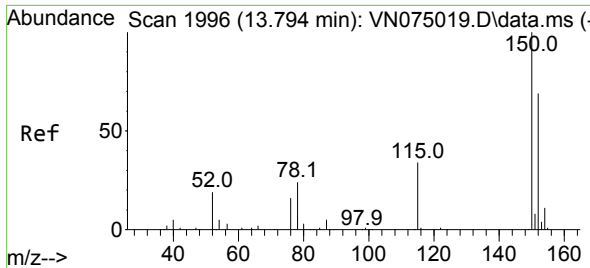
Tgt Ion:117 Resp: 186797
Ion Ratio Lower Upper
117 100
82 54.6 43.1 64.7
119 32.4 25.5 38.3



#71
Bromoform
Concen: 0.639 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion:173 Resp: 708
Ion Ratio Lower Upper
173 100
175 526.8 24.6 74.0#
254 0.0 0.0 0.0

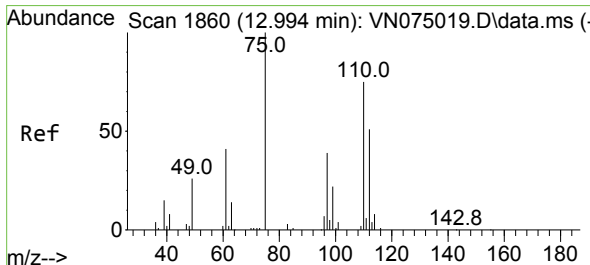
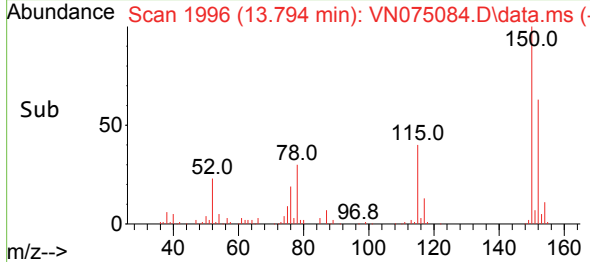
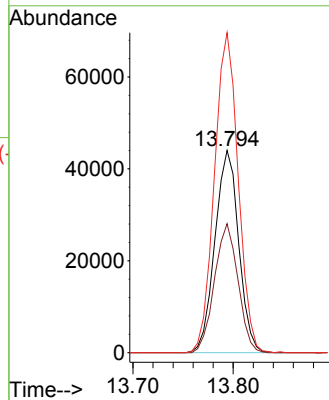
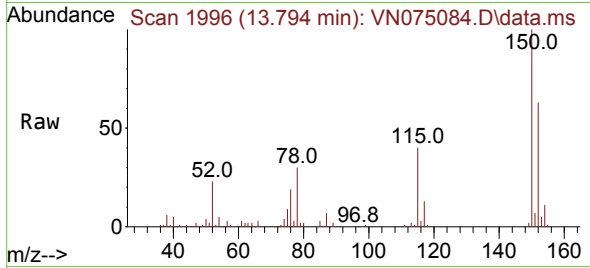




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

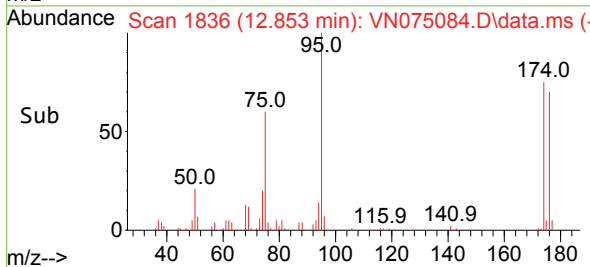
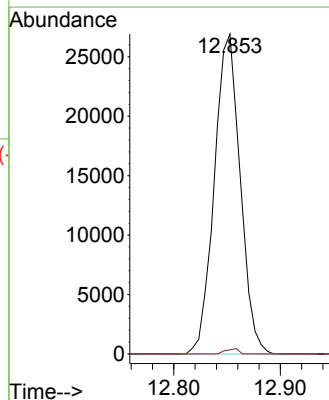
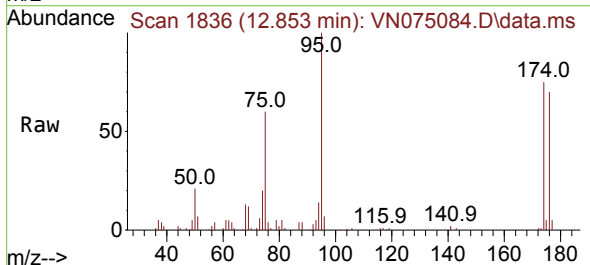
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-GRAB-3-PILE-2

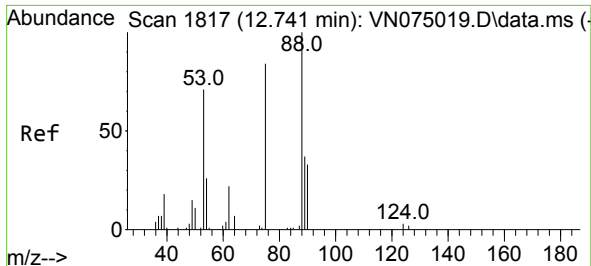
Tgt Ion:152 Resp: 72417
Ion Ratio Lower Upper
152 100
115 63.0 30.2 90.6
150 157.9 0.0 348.4



#76
1,2,3-Trichloropropane
Concen: 29.514 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 75 Resp: 45381
Ion Ratio Lower Upper
75 100
77 0.8 75.6 226.8#

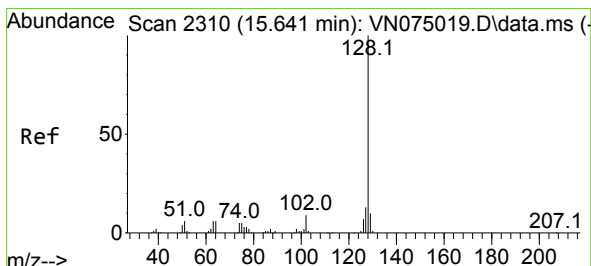
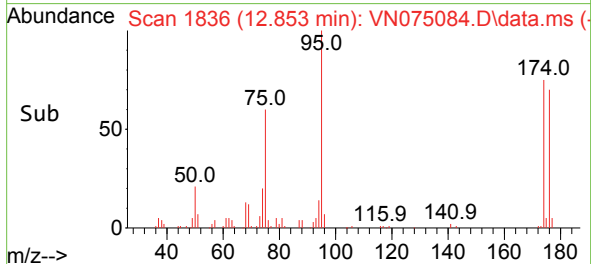
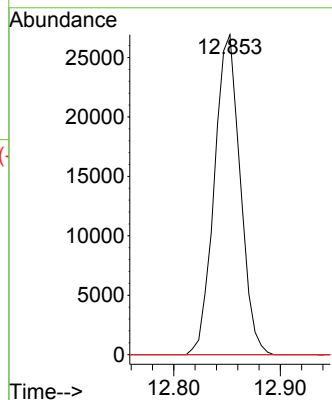
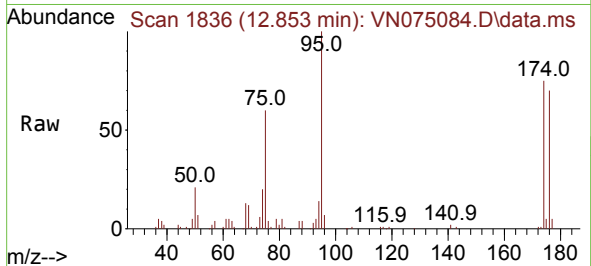




#81
trans-1,4-Dichloro-2-butene
Concen: 75.762 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-GRAB-3-PILE-2

Tgt Ion: 75 Resp: 45381
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#



#95
Naphthalene
Concen: 0.205 ug/l
RT: 15.647 min Scan# 2311
Delta R.T. 0.006 min
Lab File: VN075084.D
Acq: 31 Oct 2022 14:10

Tgt Ion: 128 Resp: 844
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 6.9 8.6 12.8#

