

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062223\
 Data File : VN078358.D
 Acq On : 22 Jun 2023 18:28
 Operator : JC\MD
 Sample : 03361-16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-SB-23-GRAB-5

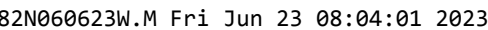
Quant Time: Jun 23 08:03:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

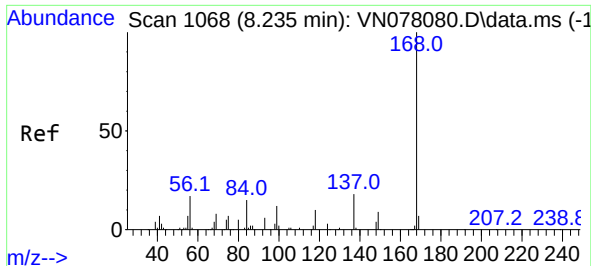
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	467755	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	873905	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	813702	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	263717	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	326452	52.345	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.680%			
35) Dibromofluoromethane	8.177	113	304900	55.180	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.360%			
50) Toluene-d8	10.571	98	1039660	48.806	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.620%			
62) 4-Bromofluorobenzene	12.853	95	335216	50.620	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.240%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	870	Below Cal	#	83
16) Acetone	4.447	43	65561	36.522	ug/l	98
18) Methyl Acetate	5.053	43	4825	0.584	ug/l #	66
20) Methylene Chloride	5.300	84	24114	4.065	ug/l	93
25) 2-Butanone	7.506	43	18122	6.565	ug/l #	81
29) Tetrahydrofuran	7.859	42	461	0.250	ug/l #	34
31) Cyclohexane	8.230	56	10406	1.301	ug/l #	45
36) 1,1-Dichloropropene	8.230	75	38387	4.843	ug/l #	49
37) Ethyl Acetate	7.571	43	51777	8.362	ug/l	98
38) Carbon Tetrachloride	8.230	117	50196	5.998	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	2023	0.249	ug/l #	73
43) Isopropyl Acetate	8.694	43	279540	23.607	ug/l #	82
45) 1,2-Dichloropropane	9.747	63	3084	0.524	ug/l #	45
48) Methyl methacrylate	9.677	41	6108	1.229	ug/l #	32
49) 1,4-Dioxane	9.753	88	282	2.700	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	143935	23.083	ug/l	88
54) cis-1,3-Dichloropropene	10.359	75	99127	10.690	ug/l #	70
57) 1,3-Dichloropropane	11.212	76	10092	1.058	ug/l #	44
59) 2-Hexanone	11.176	43	351362	80.927	ug/l #	19
71) Bromoform	12.853	173	3025	0.731	ug/l #	1
74) N-amyl acetate	12.482	43	3074	0.374	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.935	83	134	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	180722	28.988	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	180722	89.060	ug/l #	15

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

Quant Time: Jun 23 08:03:57 2023
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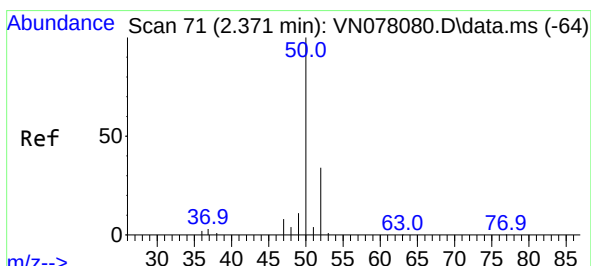
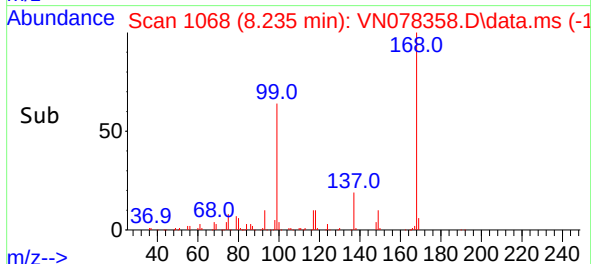
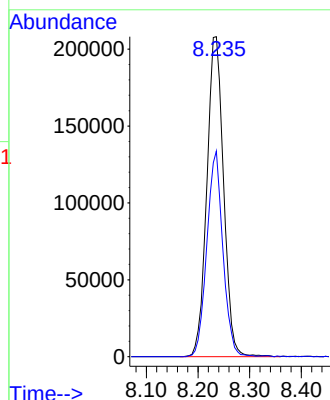
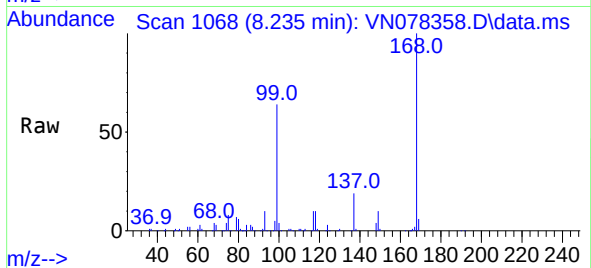




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

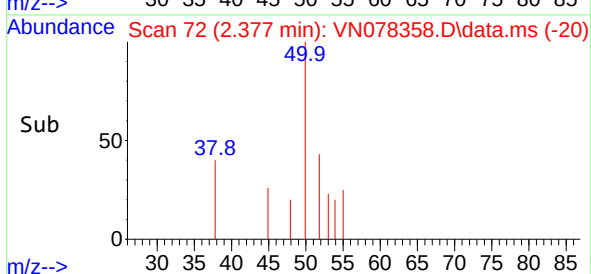
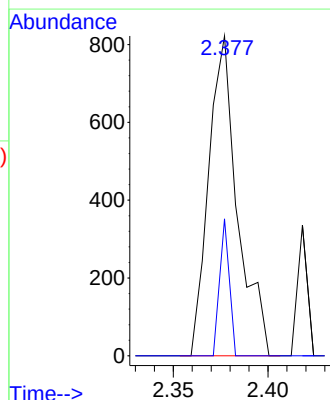
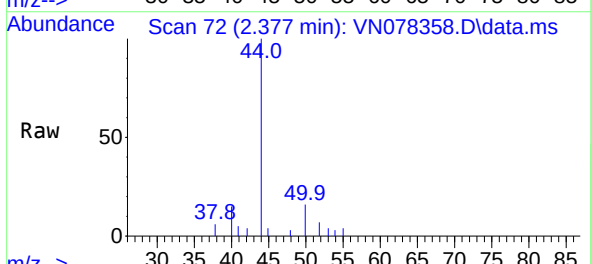
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

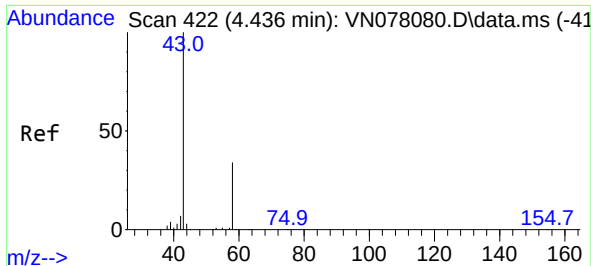
Tgt Ion:168 Resp: 467755
Ion Ratio Lower Upper
168 100
99 64.2 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion: 50 Resp: 870
Ion Ratio Lower Upper
50 100
52 42.8 26.5 39.7#

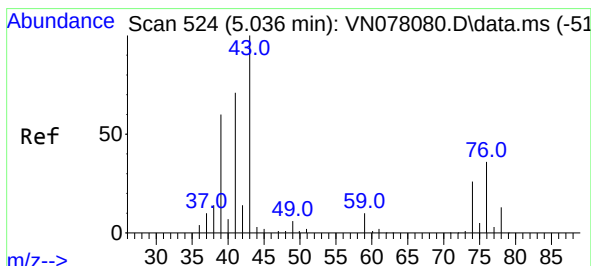
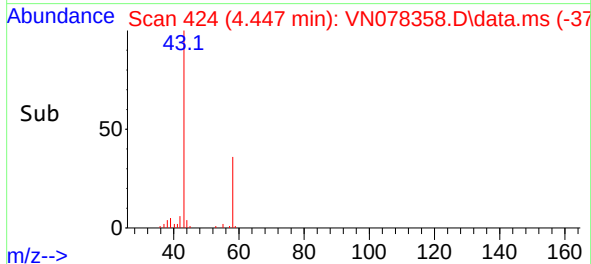
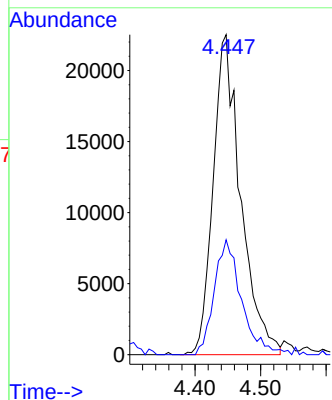
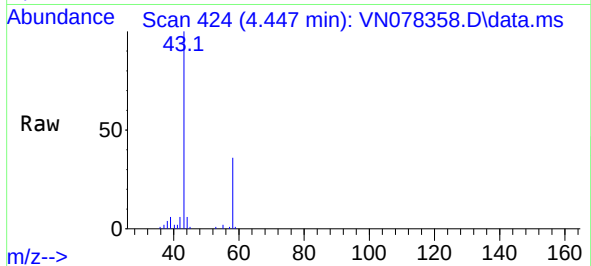




#16
Acetone
Concen: 36.522 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

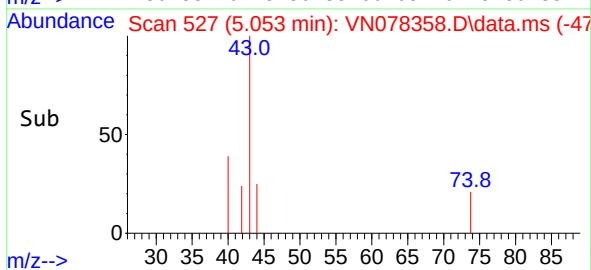
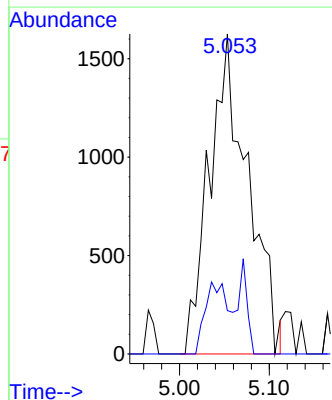
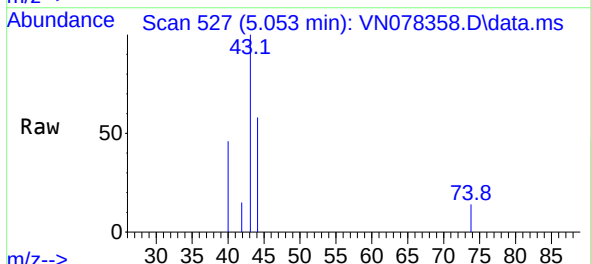
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

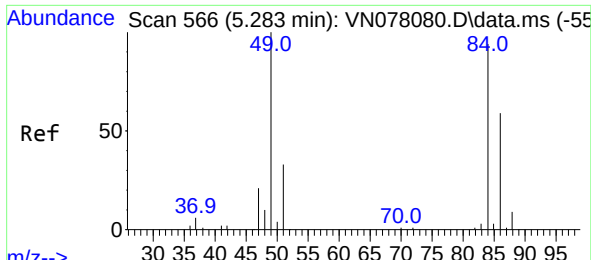
Tgt Ion: 43 Resp: 65561
Ion Ratio Lower Upper
43 100
58 35.9 28.0 42.0



#18
Methyl Acetate
Concen: 0.584 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.018 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion: 43 Resp: 4825
Ion Ratio Lower Upper
43 100
74 13.6 26.2 39.4#





#20

Methylene Chloride

Concen: 4.065 ug/l

RT: 5.300 min Scan# 5

Delta R.T. 0.018 min

Lab File: VN078358.D

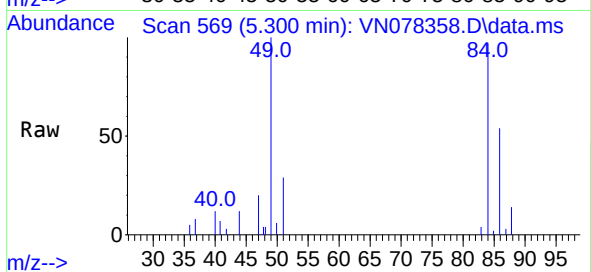
Acq: 22 Jun 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-SB-23-GRAB-5



Tgt Ion: 84 Resp: 24114

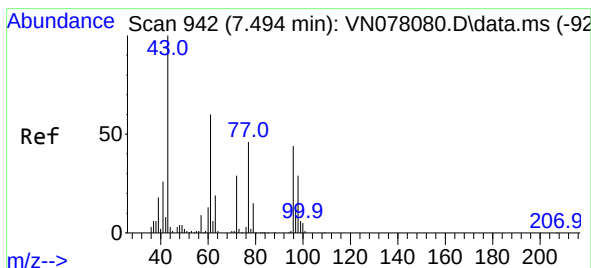
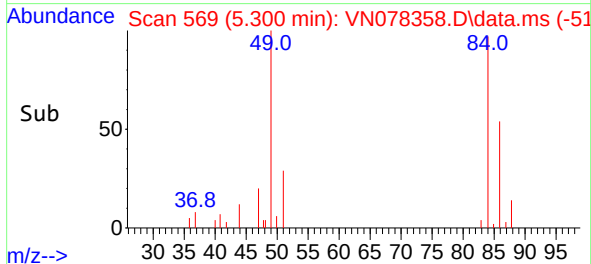
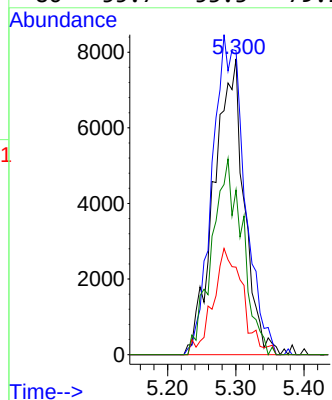
Ion Ratio Lower Upper

84 100

49 102.8 79.7 119.5

51 29.6 25.2 37.8

86 55.7 53.3 79.9



#25

2-Butanone

Concen: 6.565 ug/l

RT: 7.506 min Scan# 944

Delta R.T. 0.012 min

Lab File: VN078358.D

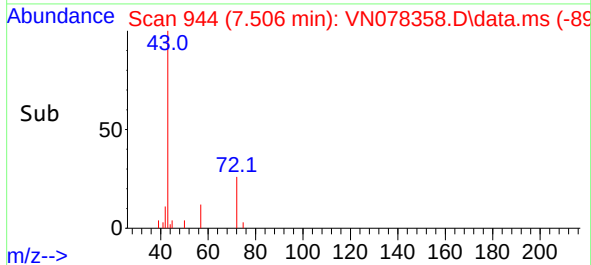
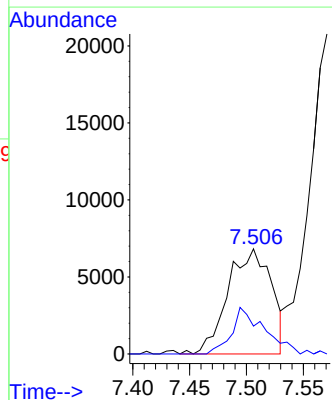
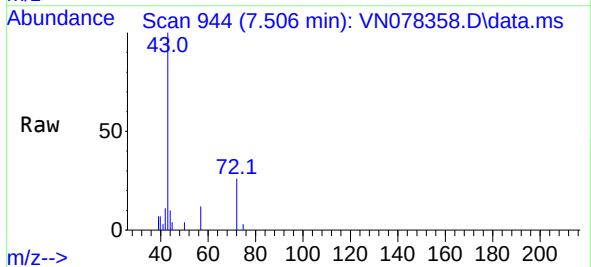
Acq: 22 Jun 2023 18:28

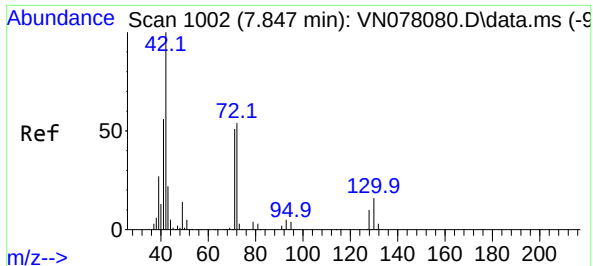
Tgt Ion: 43 Resp: 18122

Ion Ratio Lower Upper

43 100

72 26.4 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.250 ug/l

RT: 7.859 min Scan# 1067

Delta R.T. 0.012 min

Lab File: VN078358.D

Acq: 22 Jun 2023 18:28

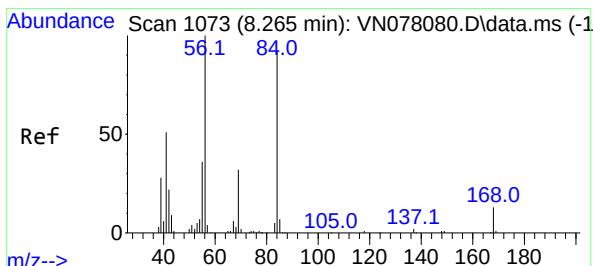
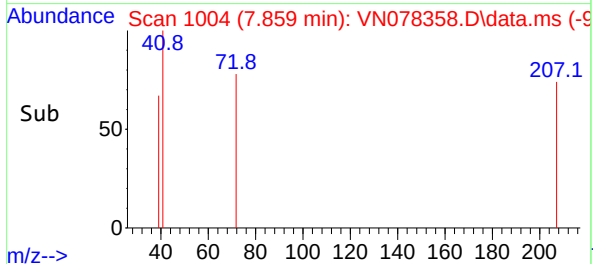
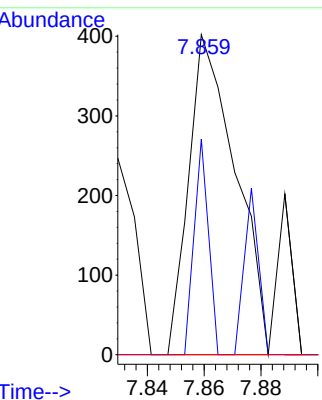
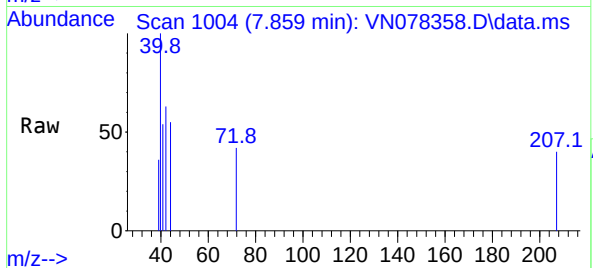
Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-SB-23-GRAB-5

Tgt Ion:	42	Resp:	461
Ion	Ratio	Lower	Upper
42	100		
72	20.8	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.301 ug/l

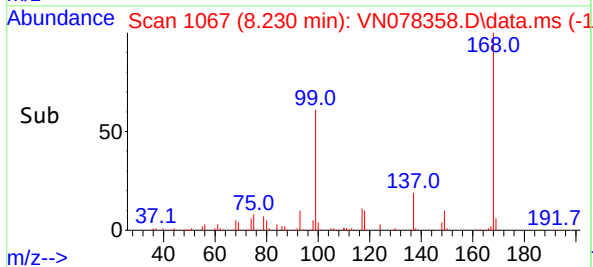
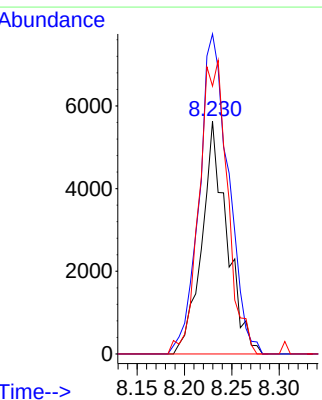
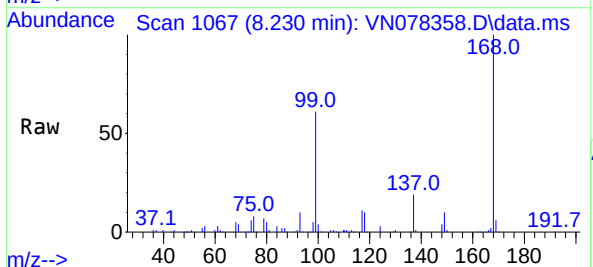
RT: 8.230 min Scan# 1067

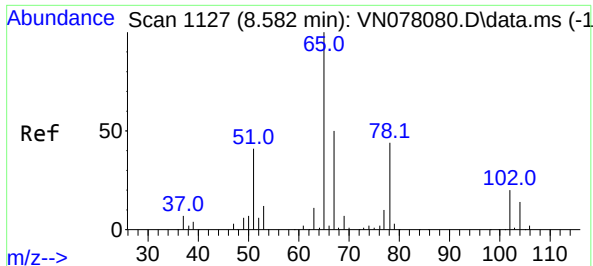
Delta R.T. -0.035 min

Lab File: VN078358.D

Acq: 22 Jun 2023 18:28

Tgt Ion:	56	Resp:	10406
Ion	Ratio	Lower	Upper
56	100		
69	137.4	26.8	40.2#
84	115.0	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 52.345 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078358.D

Acq: 22 Jun 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

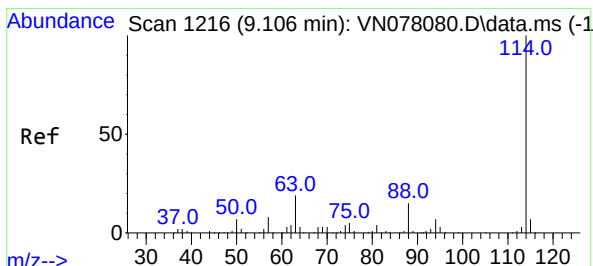
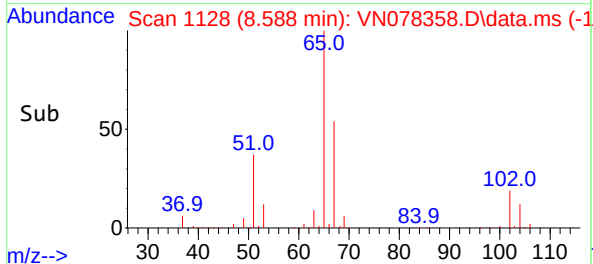
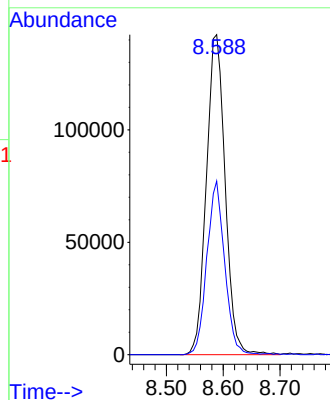
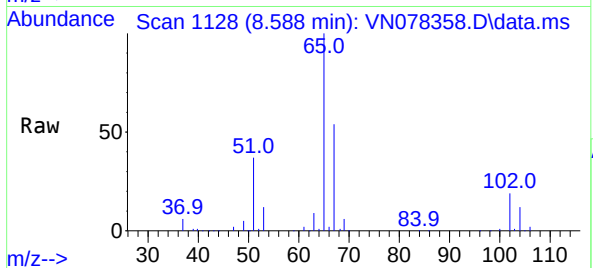
TCLP-VOC-SB-23-GRAB-5

Tgt Ion: 65 Resp: 326452

Ion Ratio Lower Upper

65 100

67 51.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078358.D

Acq: 22 Jun 2023 18:28

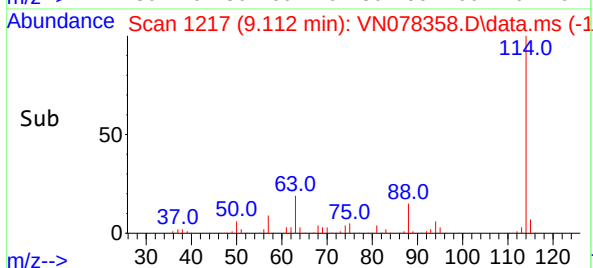
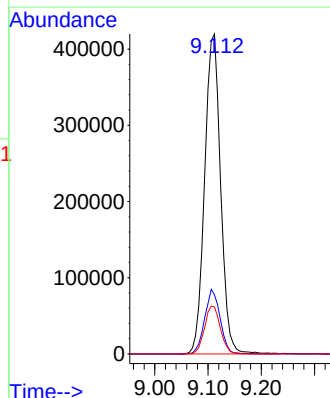
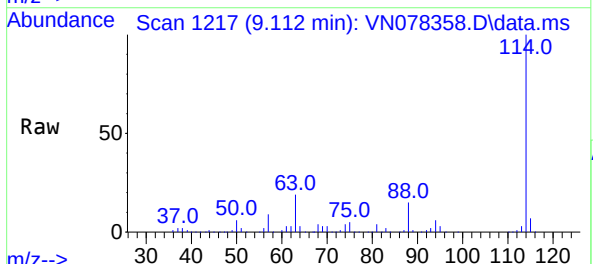
Tgt Ion: 114 Resp: 873905

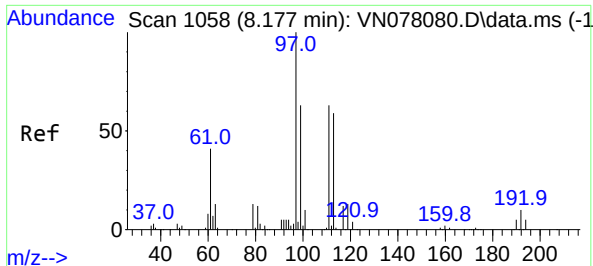
Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.4

88 14.7 0.0 30.6

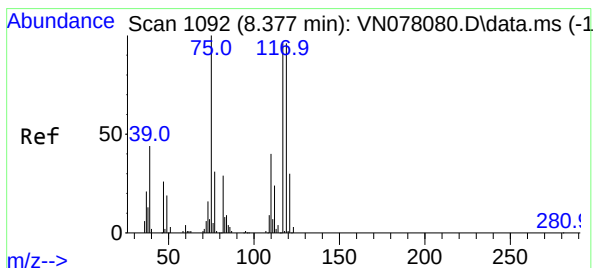
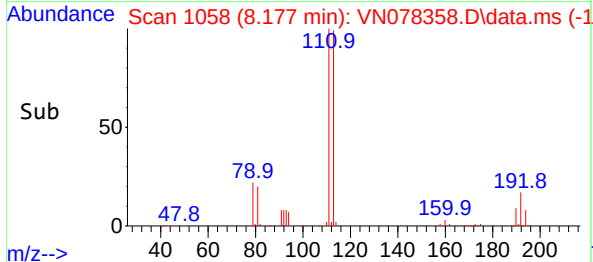
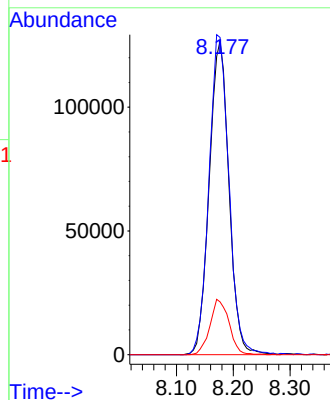
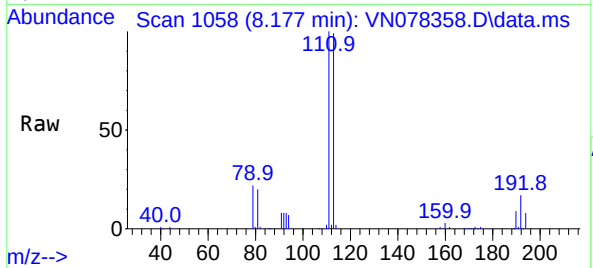




#35
Dibromofluoromethane
Concen: 55.180 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

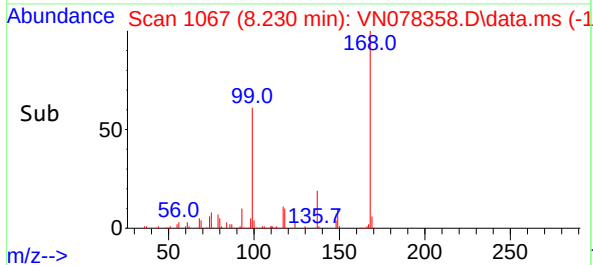
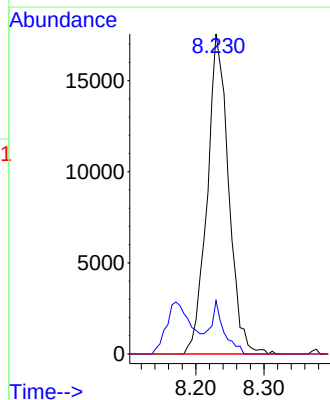
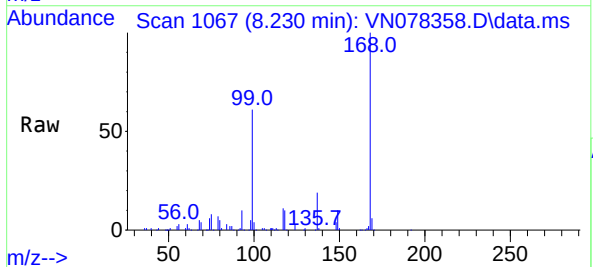
Instrument : MSVOA_N
ClientSampleId : TCLP-VOC-SB-23-GRAB-5

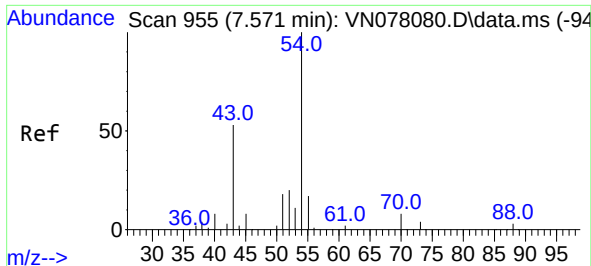
Tgt Ion:113 Resp: 304900
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 17.1 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.843 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion: 75 Resp: 38387
Ion Ratio Lower Upper
75 100
110 10.2 19.1 57.3#
77 0.0 25.0 37.4#

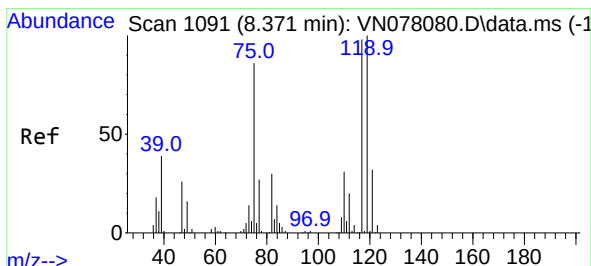
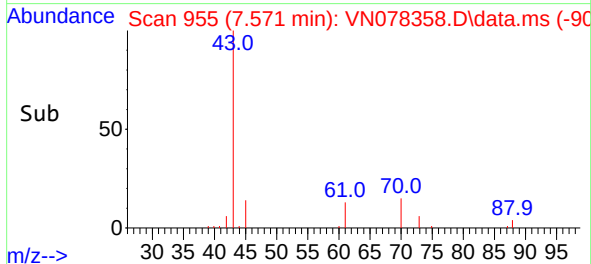
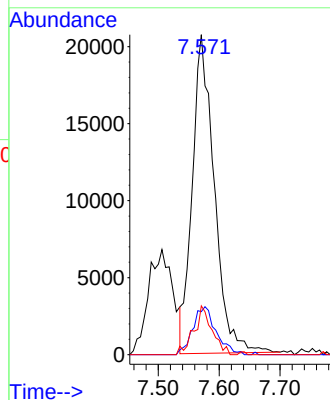
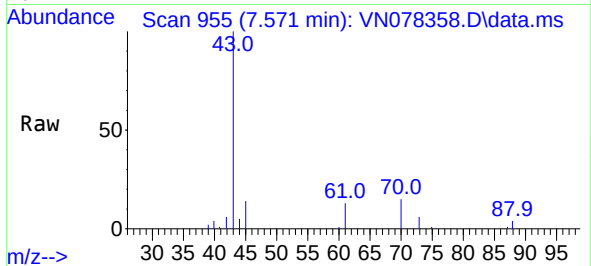




#37
Ethyl Acetate
Concen: 8.362 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

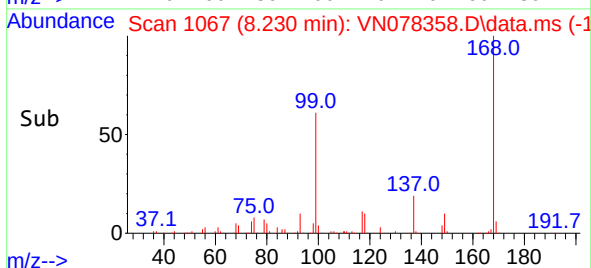
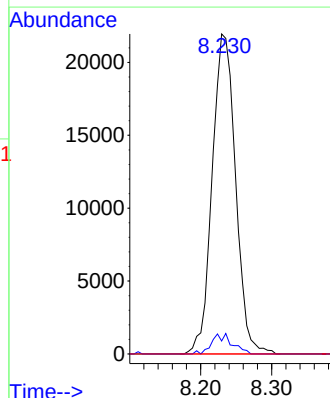
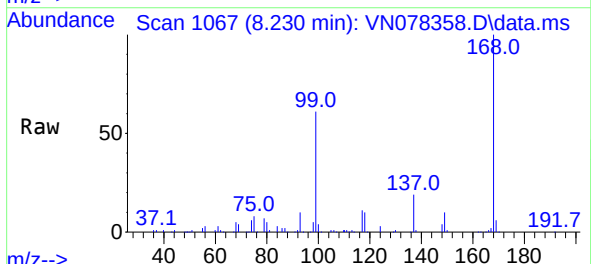
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

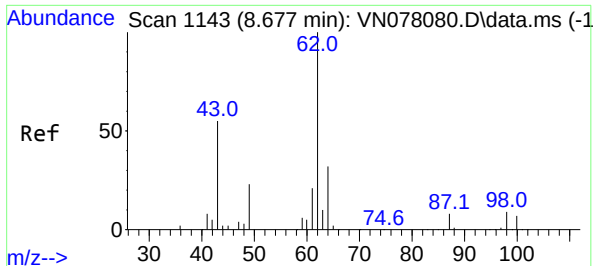
Tgt Ion:	43	Resp:	51777
Ion	Ratio	Lower	Upper
43	100		
61	16.0	13.2	19.8
70	12.6	11.3	16.9



#38
Carbon Tetrachloride
Concen: 5.998 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion:	117	Resp:	50196
Ion	Ratio	Lower	Upper
117	100		
119	4.1	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.249 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.012 min

Lab File: VN078358.D

Acq: 22 Jun 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

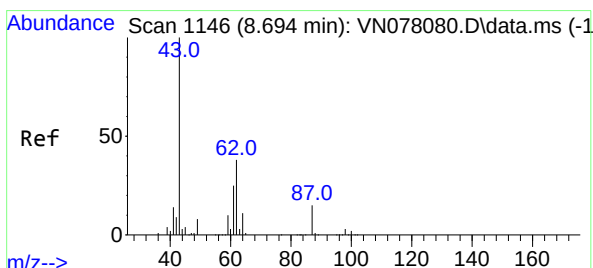
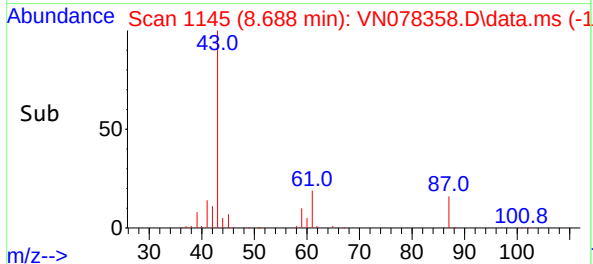
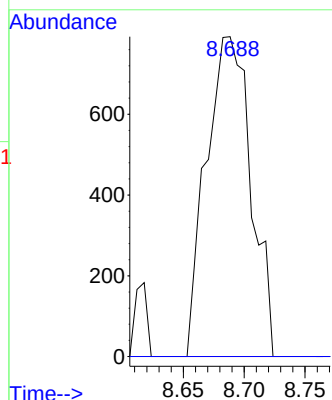
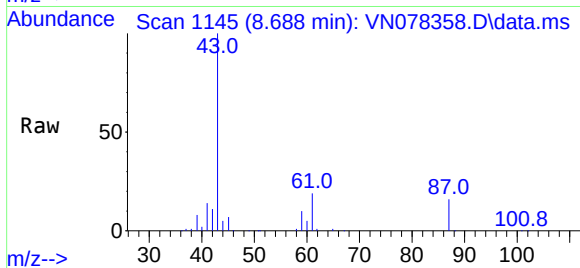
TCLP-VOC-SB-23-GRAB-5

Tgt Ion: 62 Resp: 2023

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 23.607 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078358.D

Acq: 22 Jun 2023 18:28

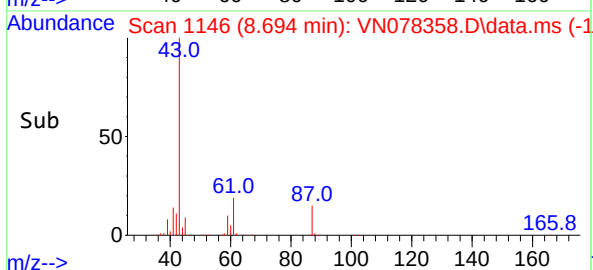
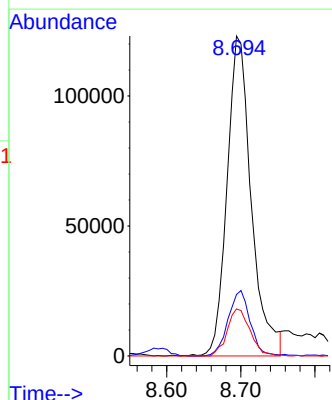
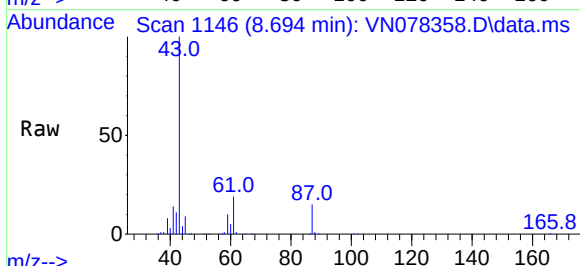
Tgt Ion: 43 Resp: 279540

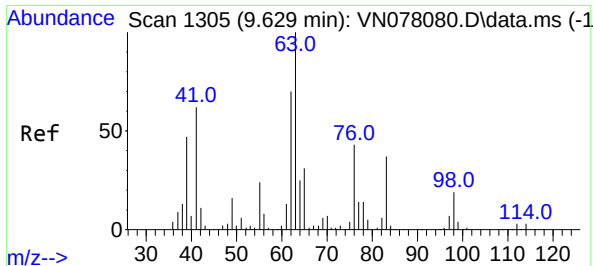
Ion Ratio Lower Upper

43 100

61 18.7 24.7 37.1#

87 13.9 14.6 21.8#

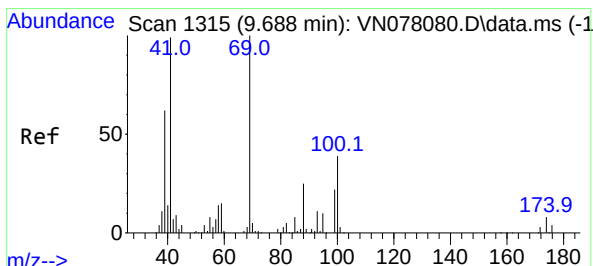
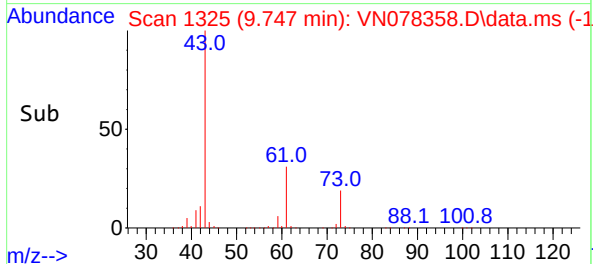
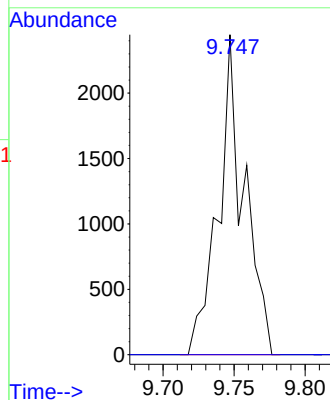
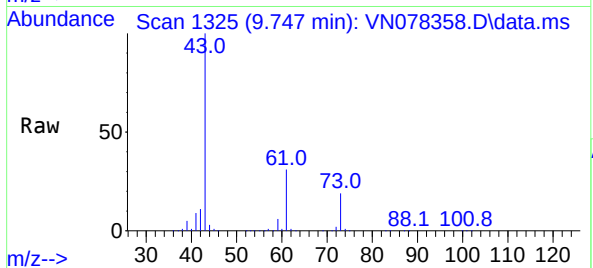




#45
1,2-Dichloropropane
Concen: 0.524 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

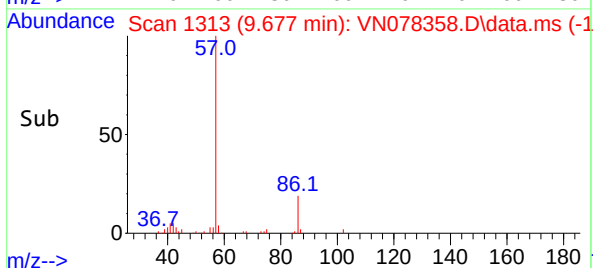
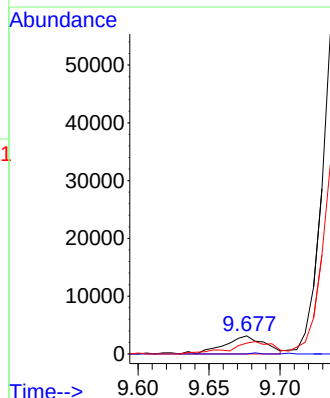
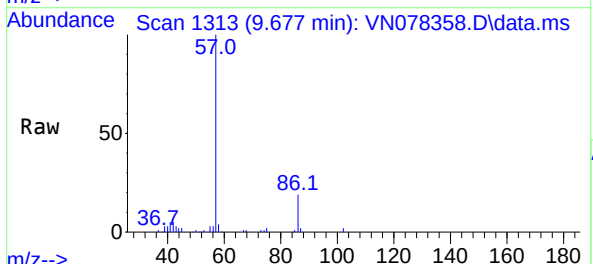
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

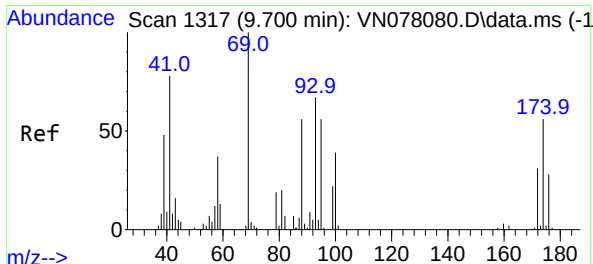
Tgt Ion: 63 Resp: 3084
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.229 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion: 41 Resp: 6108
Ion Ratio Lower Upper
41 100
69 1.1 90.4 135.6#
39 74.8 54.6 81.8

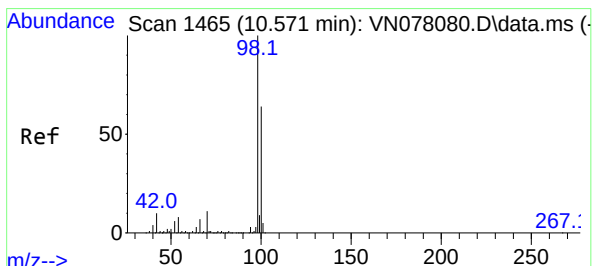
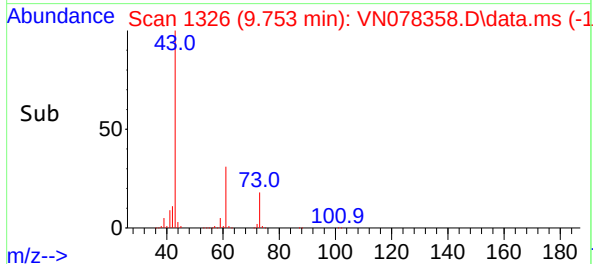
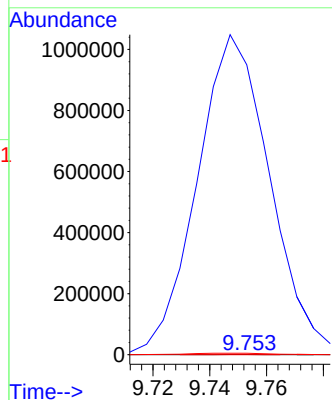
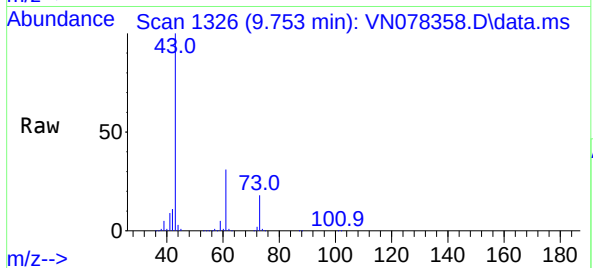




#49
1,4-Dioxane
Concen: 2.700 ug/l
RT: 9.753 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

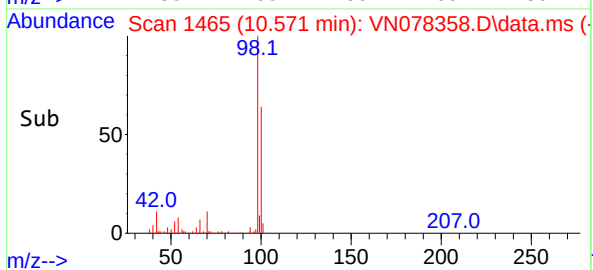
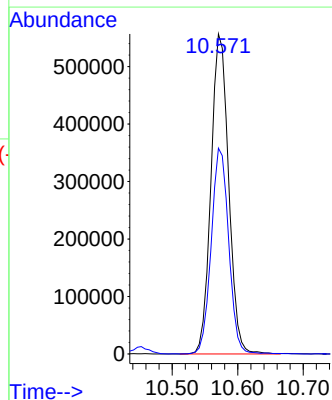
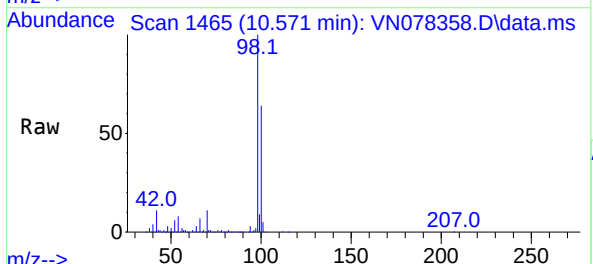
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

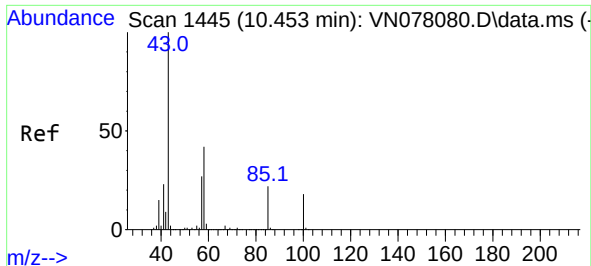
Tgt Ion: 88 Resp: 282
Ion Ratio Lower Upper
88 100
43 671087.6 17.0 25.6#
58 3545.0 47.0 70.4#



#50
Toluene-d8
Concen: 48.806 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion: 98 Resp: 1039660
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0

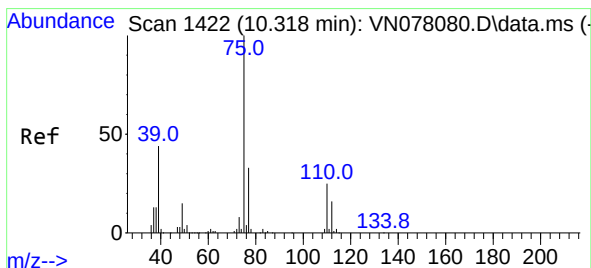
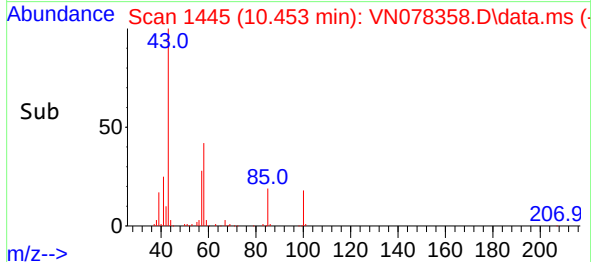
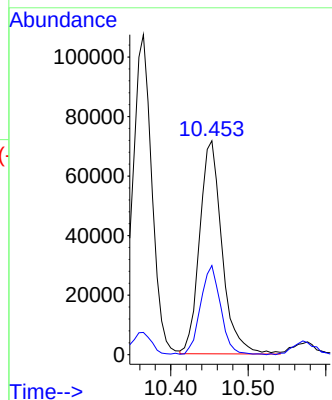
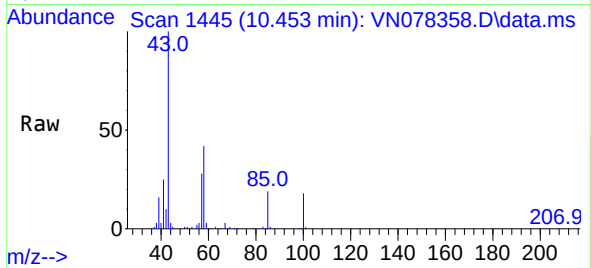




#51
4-Methyl-2-Pentanone
Concen: 23.083 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

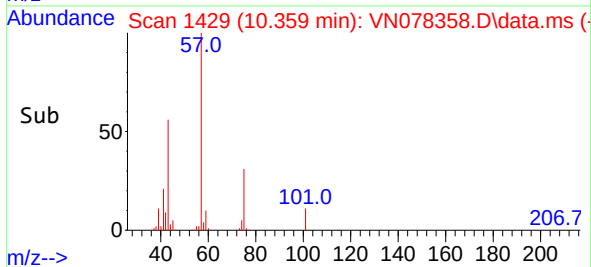
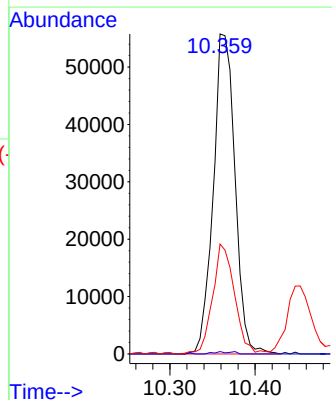
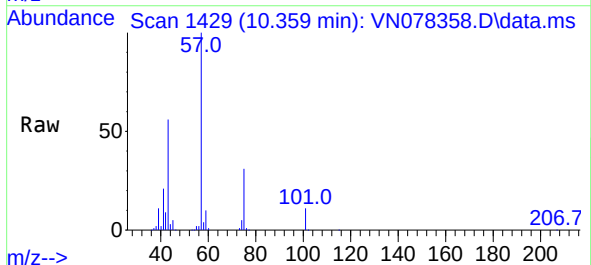
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

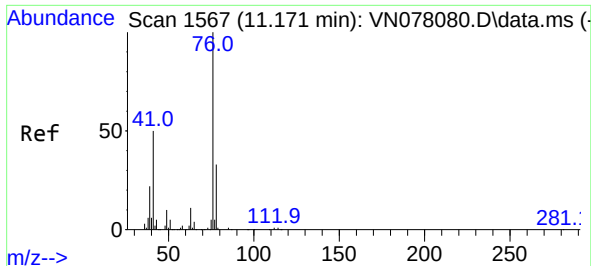
Tgt Ion: 43 Resp: 143935
Ion Ratio Lower Upper
43 100
58 37.5 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 10.690 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion: 75 Resp: 99127
Ion Ratio Lower Upper
75 100
77 0.8 26.1 39.1#
39 34.3 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.058 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.041 min

Lab File: VN078358.D

Acq: 22 Jun 2023 18:28

Instrument :

MSVOA_N

ClientSampleId :

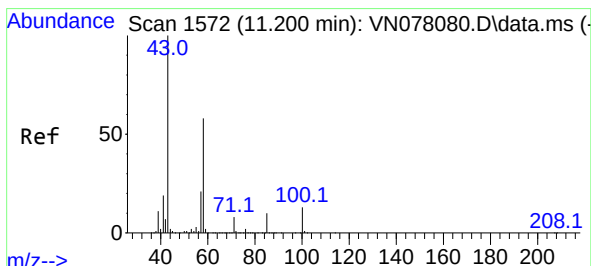
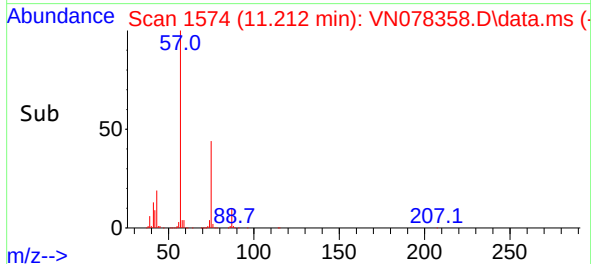
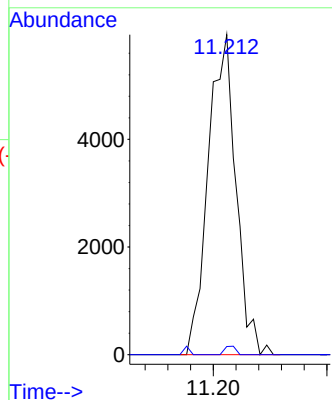
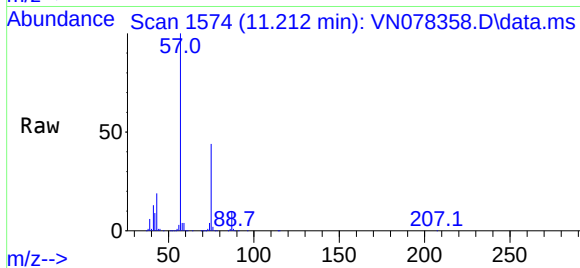
TCLP-VOC-SB-23-GRAB-5

Tgt Ion: 76 Resp: 10092

Ion Ratio Lower Upper

76 100

78 1.1 26.1 39.1#



#59

2-Hexanone

Concen: 80.927 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078358.D

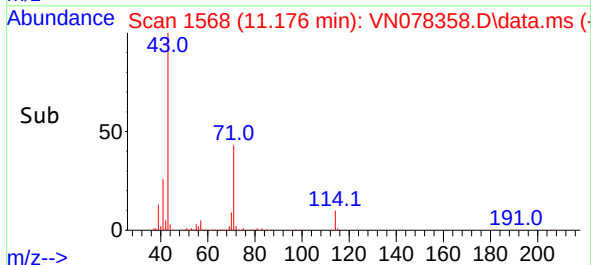
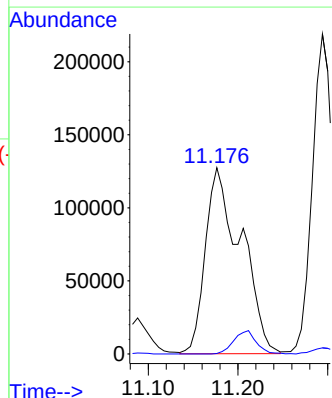
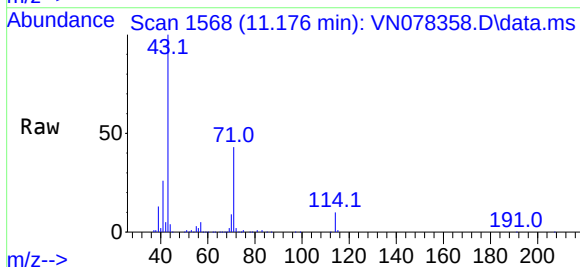
Acq: 22 Jun 2023 18:28

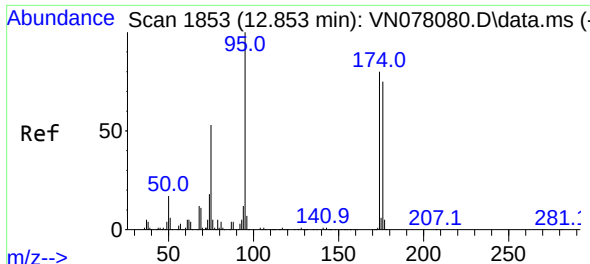
Tgt Ion: 43 Resp: 351362

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#



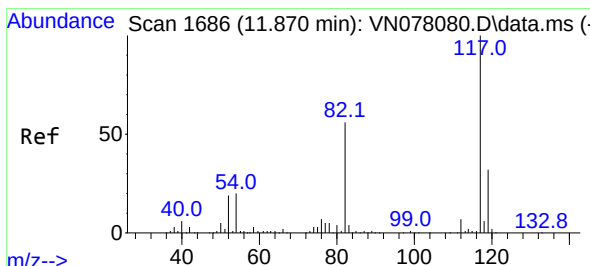
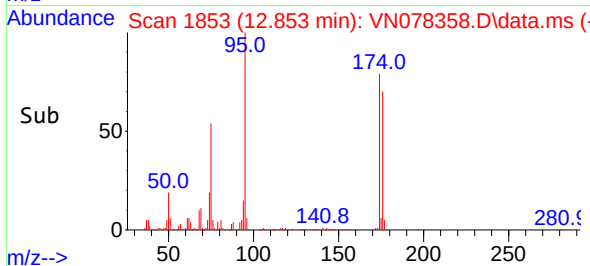
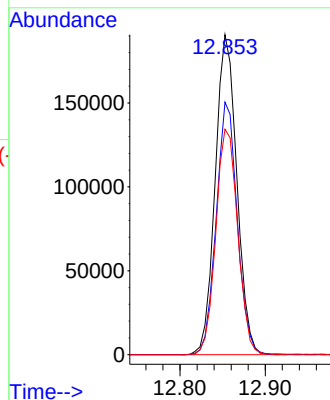
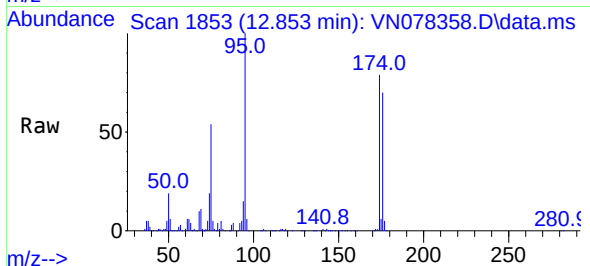


#62
4-Bromofluorobenzene
Concen: 50.620 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

Tgt Ion: 95 Resp: 335216

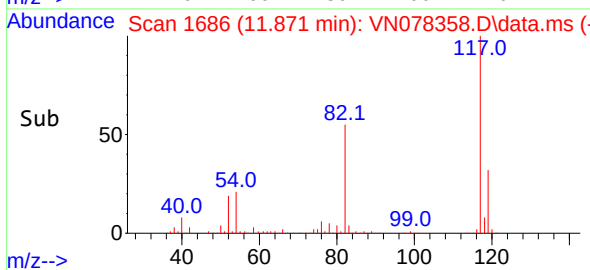
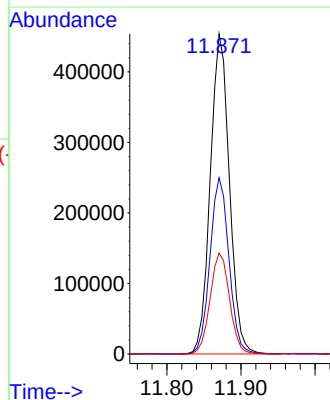
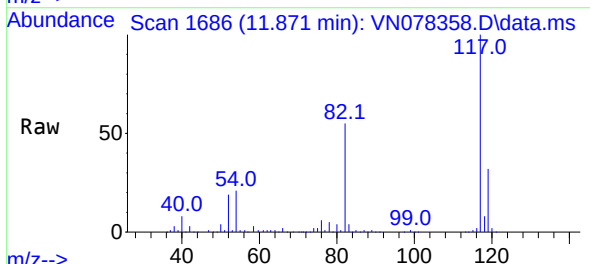
Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	143.8
176	71.4	0.0	135.8

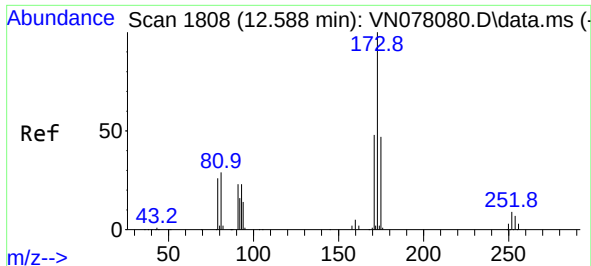


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion: 117 Resp: 813702

Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.0	66.0
119	31.5	25.6	38.4

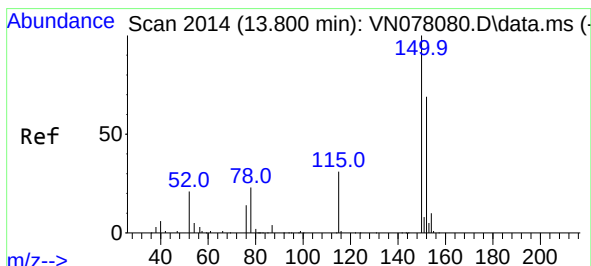
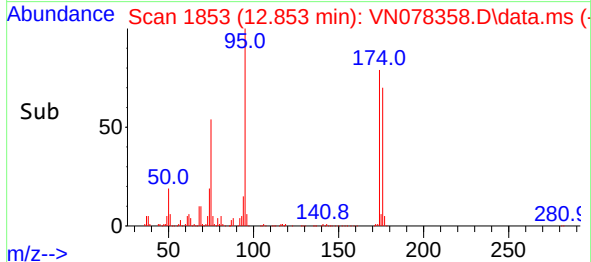
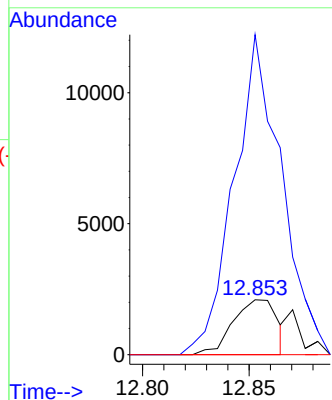
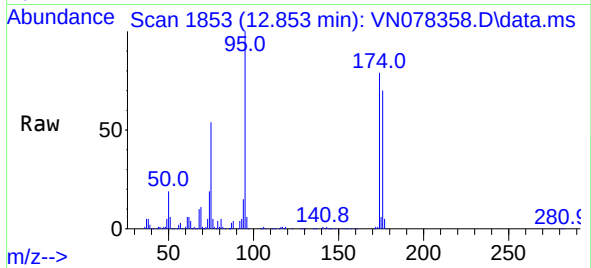




#71
Bromoform
Concen: 0.731 ug/l
RT: 12.853 min Scan# 1808
Delta R.T. 0.265 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

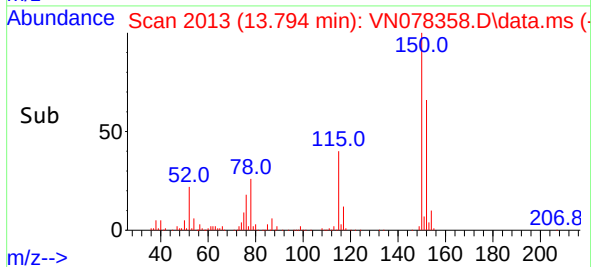
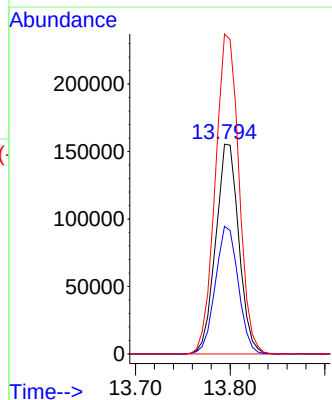
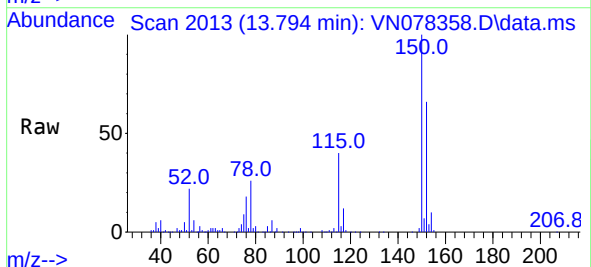
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

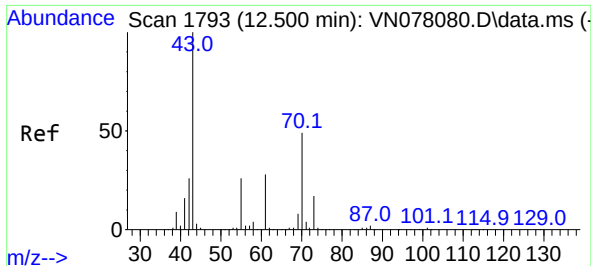
Tgt Ion:173 Resp: 3025
Ion Ratio Lower Upper
173 100
175 547.0 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion:152 Resp: 263717
Ion Ratio Lower Upper
152 100
115 60.4 32.3 96.8
150 155.9 0.0 355.8

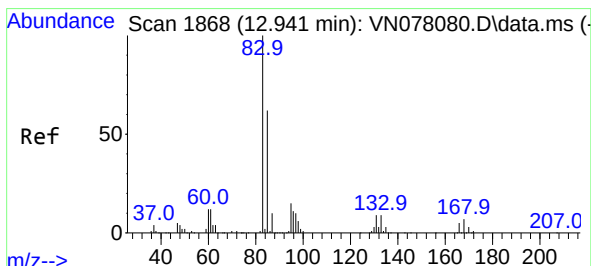
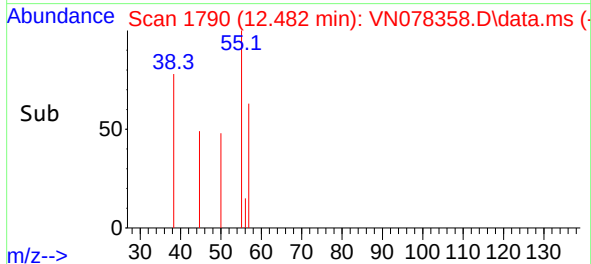
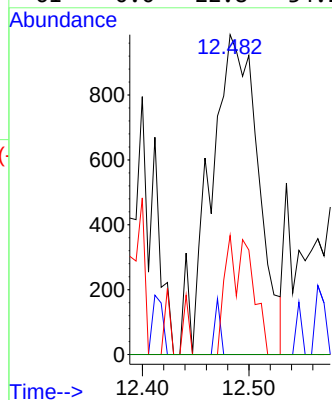
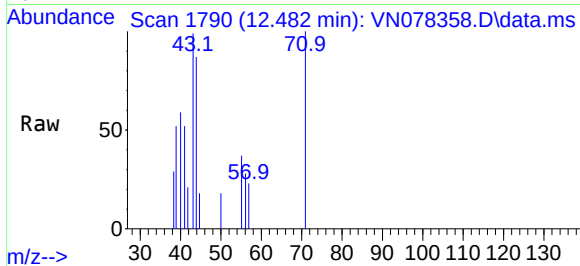




#74
N-amy1 acetate
Concen: 0.374 ug/l
RT: 12.482 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

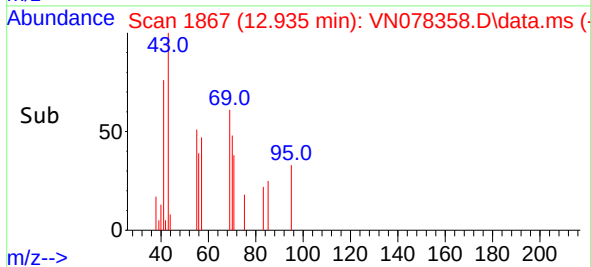
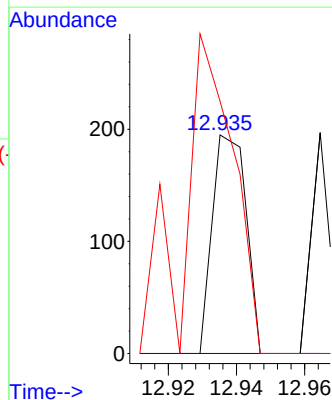
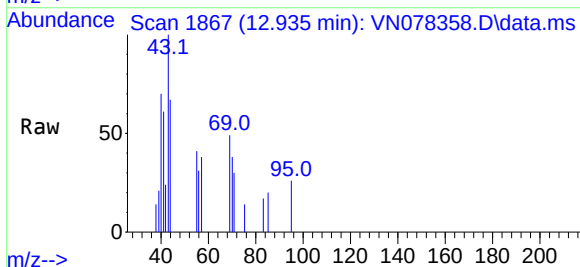
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

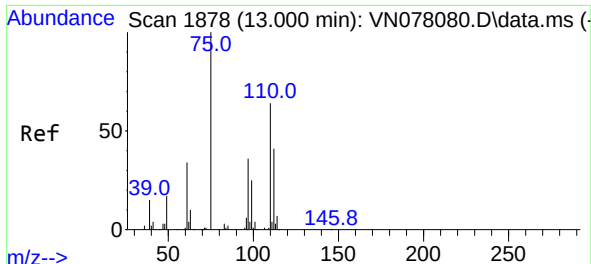
Tgt Ion:	43	Resp:	3074
Ion	Ratio	Lower	Upper
43	100		
70	2.0	43.4	65.2#
55	8.9	21.4	32.0#
61	0.0	22.8	34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion:	83	Resp:	134
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	216.4	31.9	95.7#

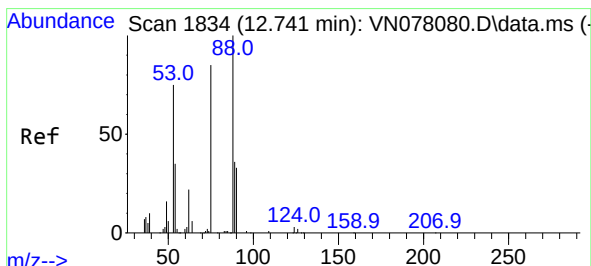
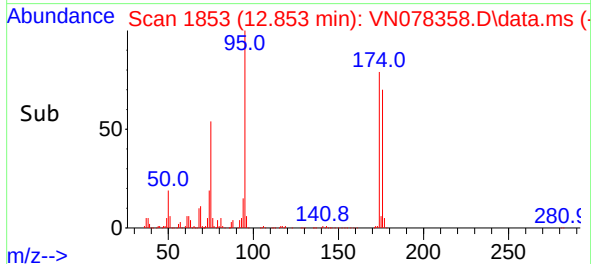
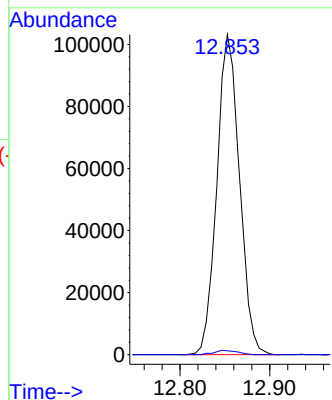
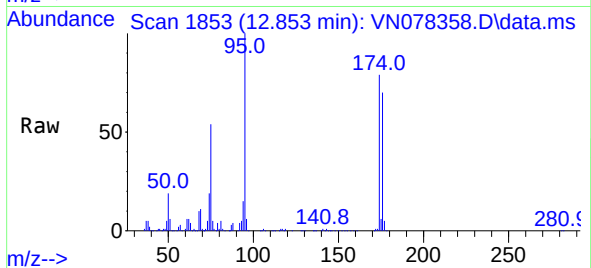




#76
1,2,3-Trichloropropane
Concen: 28.988 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-SB-23-GRAB-5

Tgt Ion: 75 Resp: 180722
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.060 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078358.D
Acq: 22 Jun 2023 18:28

Tgt Ion: 75 Resp: 180722
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

