

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122322\
 Data File : VN075965.D
 Acq On : 23 Dec 2022 14:45
 Operator : JC\MD
 Sample : N6196-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-3049

Quant Time: Dec 26 04:33:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

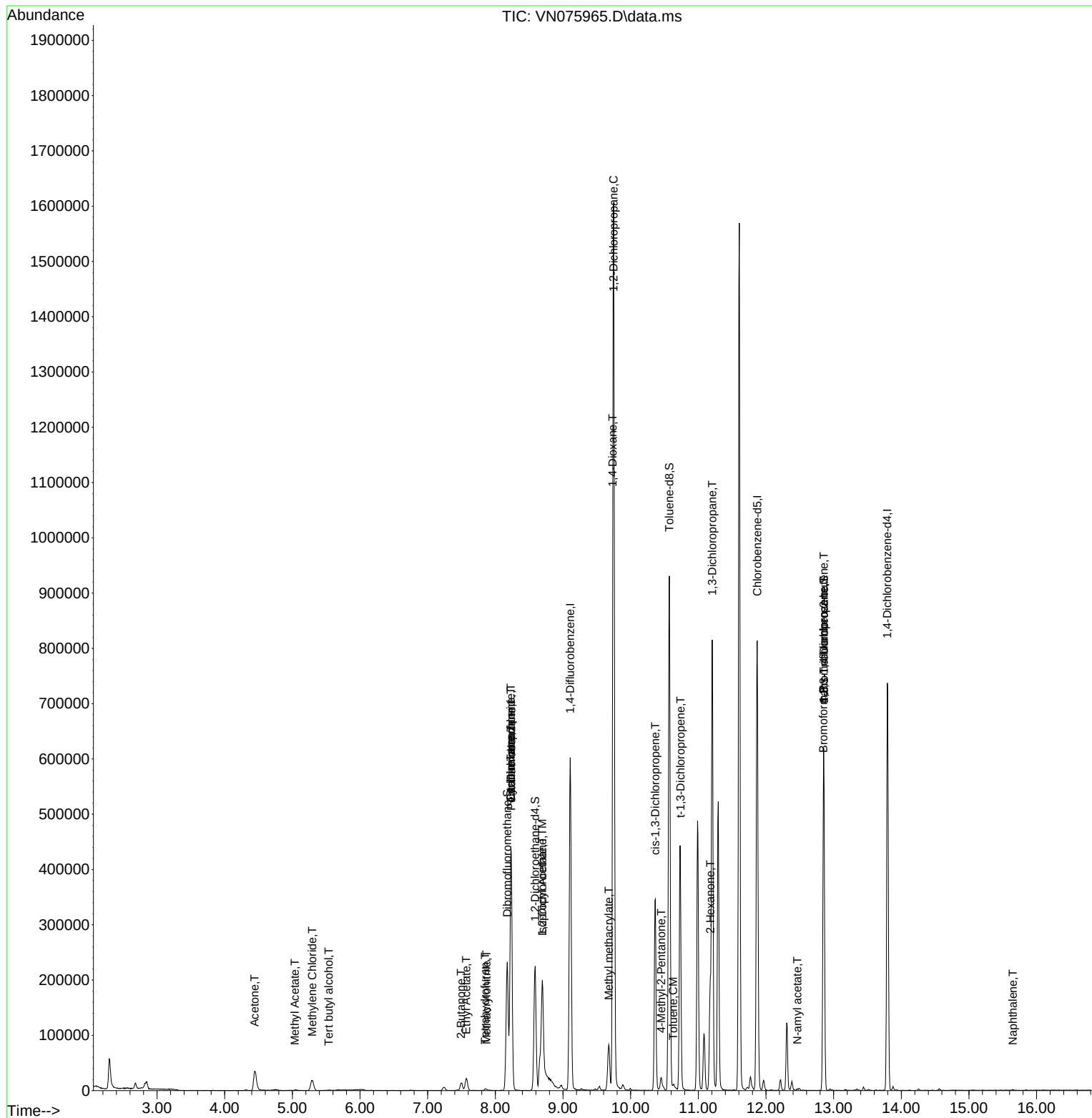
Internal Standards						
1) Pentafluorobenzene	8.236	168	339786	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	545686	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	495289	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	207350	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	184172	49.823	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.640%		
35) Dibromofluoromethane	8.177	113	161926	47.916	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.840%		
50) Toluene-d8	10.571	98	643078	50.896	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.800%		
62) 4-Bromofluorobenzene	12.853	95	206739	49.402	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.800%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.536	59	1523	2.912	ug/l #	72
16) Acetone	4.442	43	67540	53.003	ug/l	95
18) Methyl Acetate	5.036	43	2108	0.560	ug/l #	51
20) Methylene Chloride	5.295	84	16012	4.110	ug/l	94
25) 2-Butanone	7.494	43	22093	12.382	ug/l	94
29) Tetrahydrofuran	7.847	42	2656	2.375	ug/l #	85
31) Cyclohexane	8.230	56	6450	1.218	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	23577	5.252	ug/l #	49
37) Ethyl Acetate	7.571	43	33433	9.272	ug/l	100
38) Carbon Tetrachloride	8.230	117	33235	6.615	ug/l #	16
41) Methacrylonitrile	7.871	41	1051	0.561	ug/l #	41
42) 1,2-Dichloroethane	8.694	62	1150	0.250	ug/l #	72
43) Isopropyl Acetate	8.694	43	289586	48.685	ug/l #	73
45) 1,2-Dichloropropane	9.747	63	2096	0.622	ug/l #	43
48) Methyl methacrylate	9.677	41	5177	1.932	ug/l #	37
49) 1,4-Dioxane	9.736	88	76	1.154	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	20022	5.566	ug/l #	82
52) Toluene	10.630	92	3784	0.419	ug/l	97
53) t-1,3-Dichloropropene	10.735	75	1303	0.272	ug/l #	62
54) cis-1,3-Dichloropropene	10.365	75	67818	12.871	ug/l #	61
57) 1,3-Dichloropropane	11.206	76	8633	1.486	ug/l #	42
59) 2-Hexanone	11.177	43	153655	58.573	ug/l #	20
71) Bromoform	12.847	173	1277	0.466	ug/l #	1
74) N-amyl acetate	12.465	43	3065	0.697	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	104880	25.093	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	104880	90.322	ug/l #	12
95) Naphthalene	15.647	128	1514	2.306	ug/l #	75

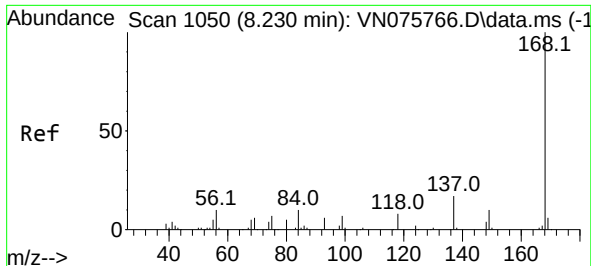
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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QLast Update : Wed Dec 14 13:03:41 2022
Response via : Initial Calibration

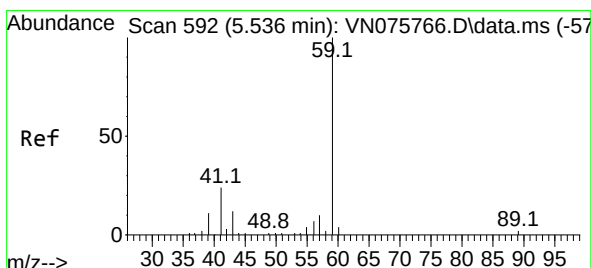
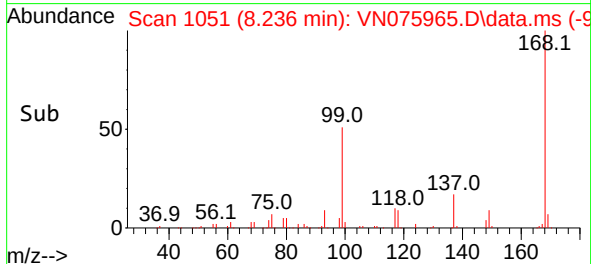
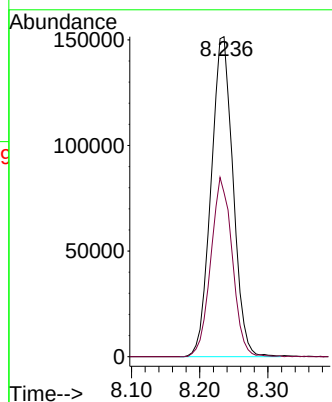
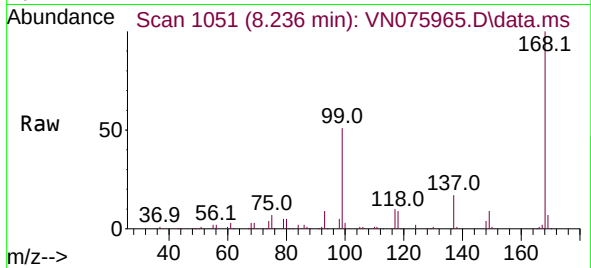




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. 0.006 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

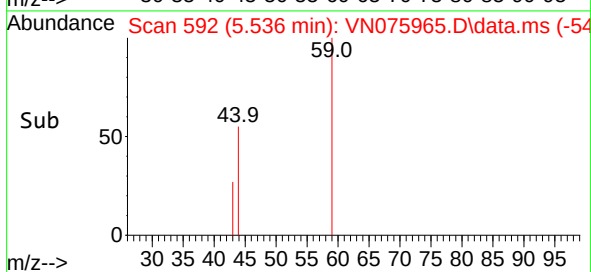
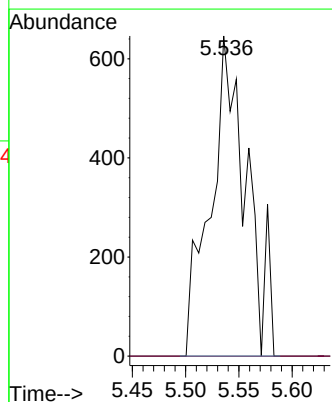
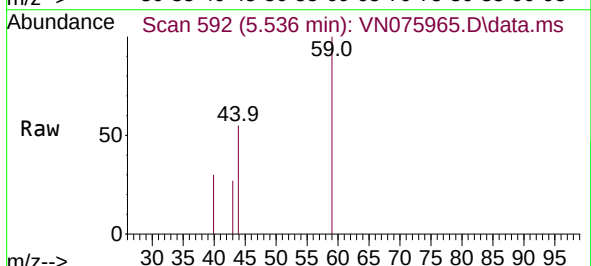
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3049

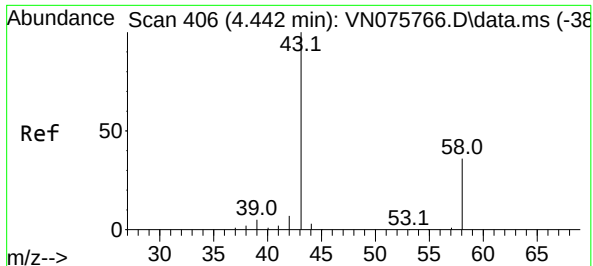
Tgt Ion:168 Resp: 339786
Ion Ratio Lower Upper
168 100
99 51.3 44.2 66.4



#11
Tert butyl alcohol
Concen: 2.912 ug/l
RT: 5.536 min Scan# 592
Delta R.T. 0.000 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 59 Resp: 1523
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

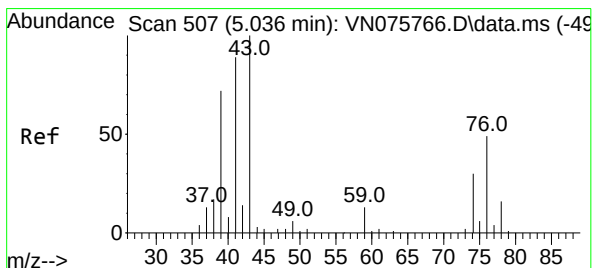
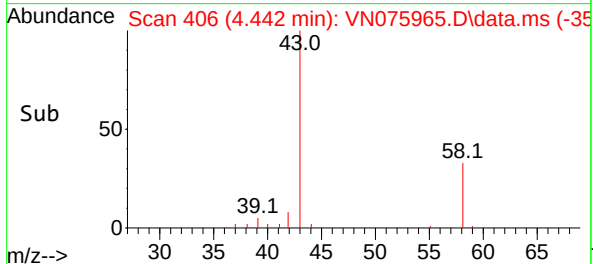
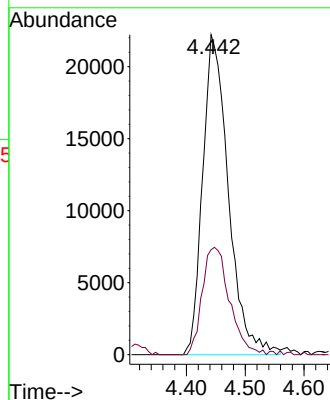
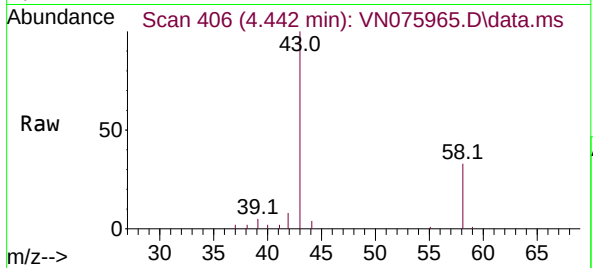




#16
Acetone
Concen: 53.003 ug/l
RT: 4.442 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

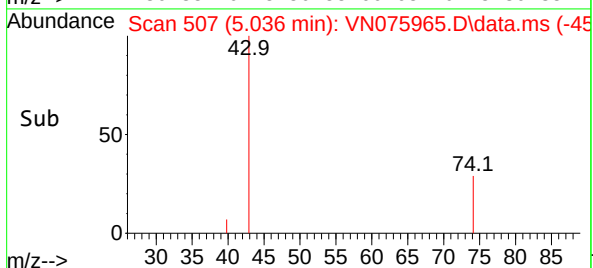
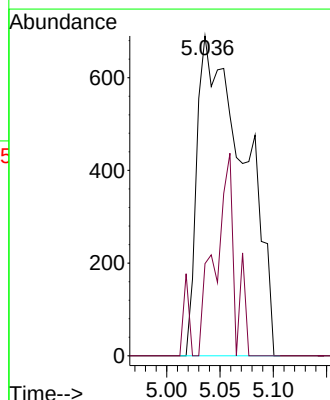
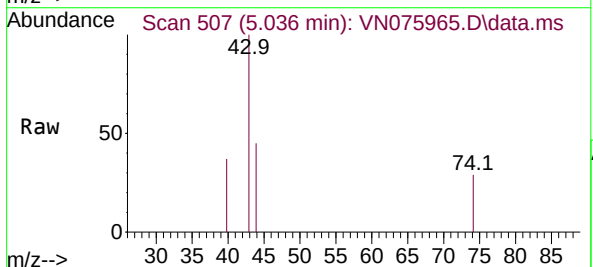
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3049

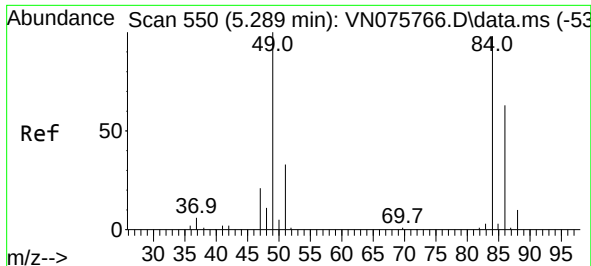
Tgt Ion: 43 Resp: 67540
Ion Ratio Lower Upper
43 100
58 32.8 28.6 43.0



#18
Methyl Acetate
Concen: 0.560 ug/l
RT: 5.036 min Scan# 507
Delta R.T. 0.000 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 43 Resp: 2108
Ion Ratio Lower Upper
43 100
74 2.9 23.6 35.4#

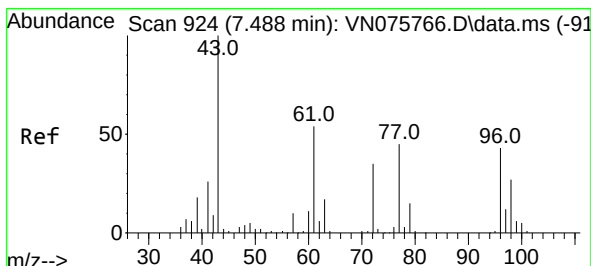
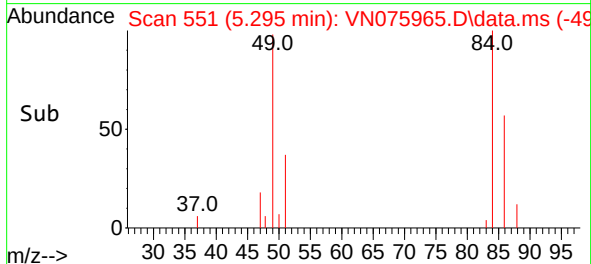
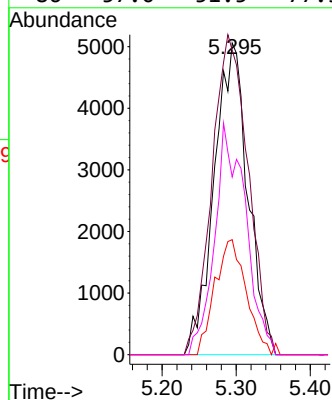
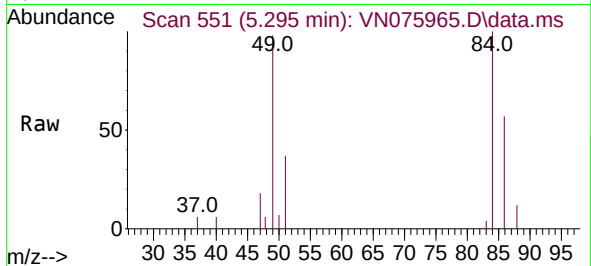




#20
Methylene Chloride
Concen: 4.110 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

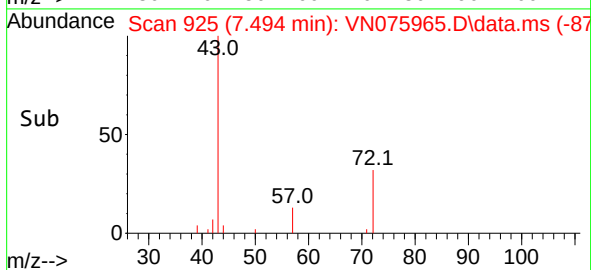
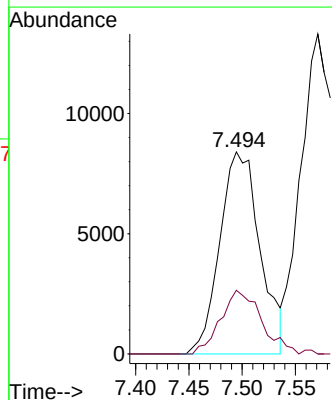
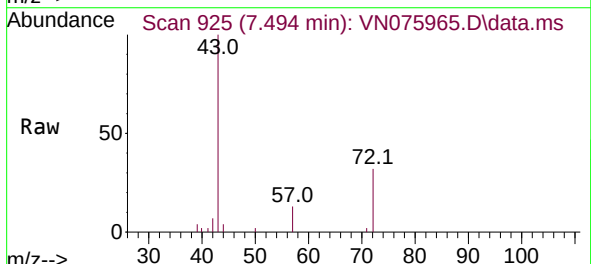
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3049

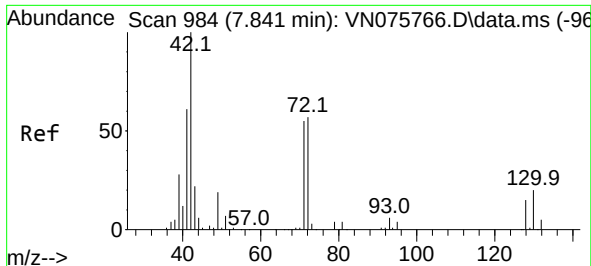
Tgt Ion: 84	Resp: 16012
Ion Ratio	Lower Upper
84 100	
49 97.7	81.8 122.6
51 36.9	26.7 40.1
86 57.0	51.5 77.3



#25
2-Butanone
Concen: 12.382 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 43	Resp: 22093
Ion Ratio	Lower Upper
43 100	
72 31.6	28.0 42.0





#29

Tetrahydrofuran

Concen: 2.375 ug/l

RT: 7.847 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-3049

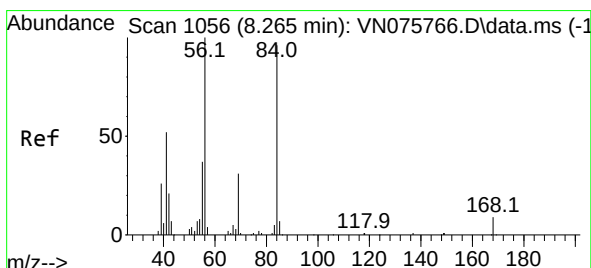
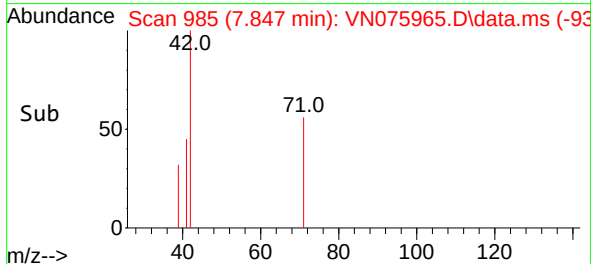
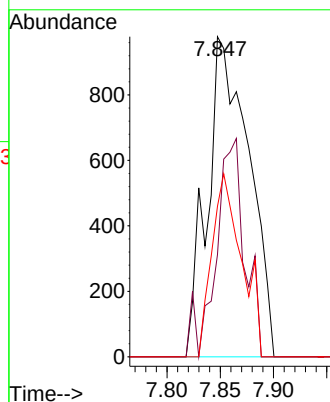
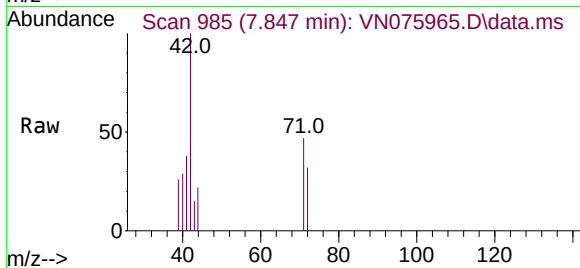
Tgt Ion: 42 Resp: 2656

Ion Ratio Lower Upper

42 100

72 44.4 44.5 66.7#

71 40.9 41.0 61.6#



#31

Cyclohexane

Concen: 1.218 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

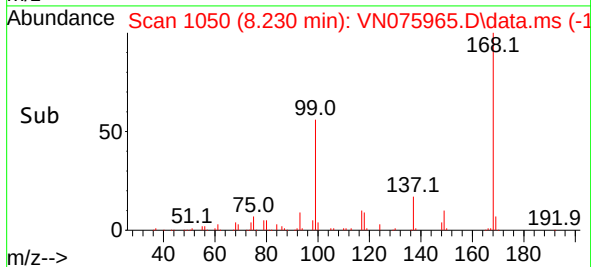
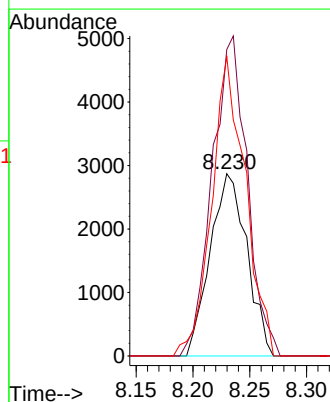
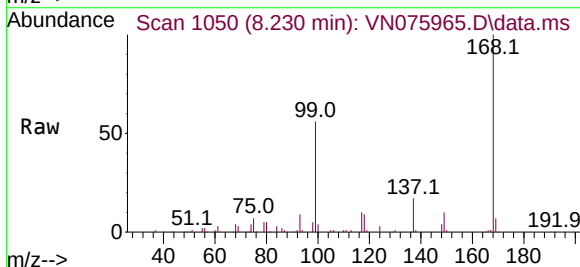
Tgt Ion: 56 Resp: 6450

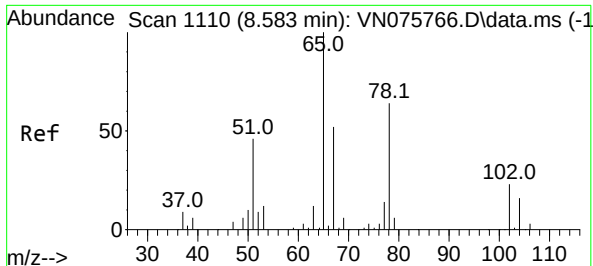
Ion Ratio Lower Upper

56 100

69 168.2 24.7 37.1#

84 164.4 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 49.823 ug/l

RT: 8.589 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

Instrument :

MSVOA_N

ClientSampleId :

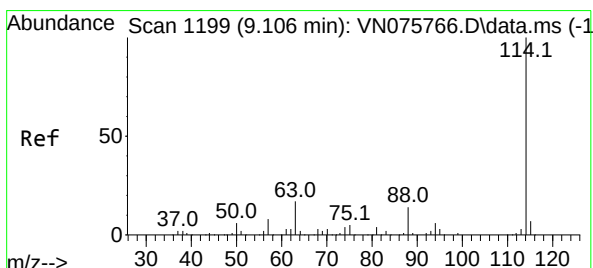
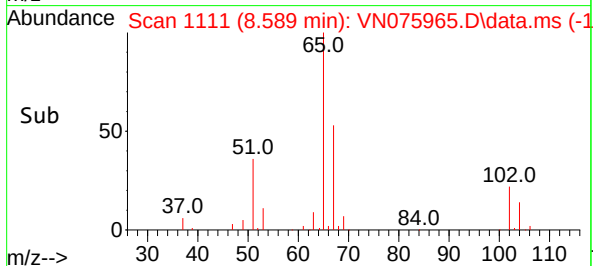
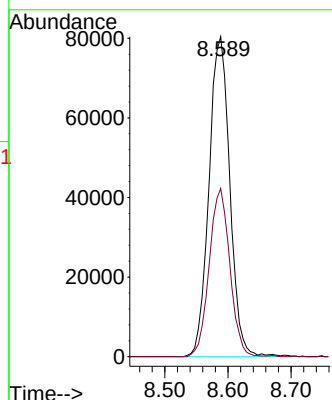
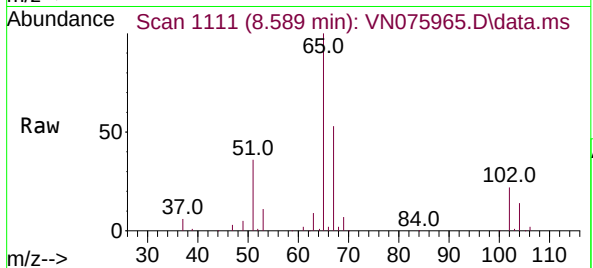
TCLP-VOC-3049

Tgt Ion: 65 Resp: 184172

Ion Ratio Lower Upper

65 100

67 52.0 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

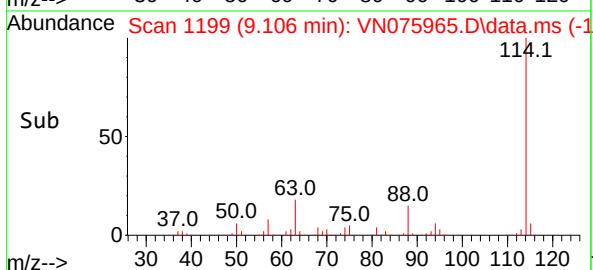
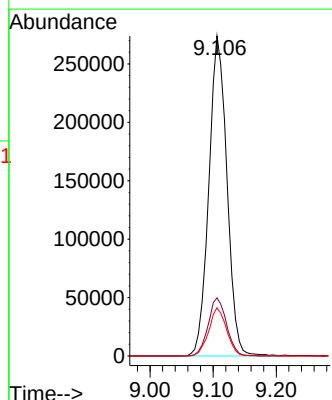
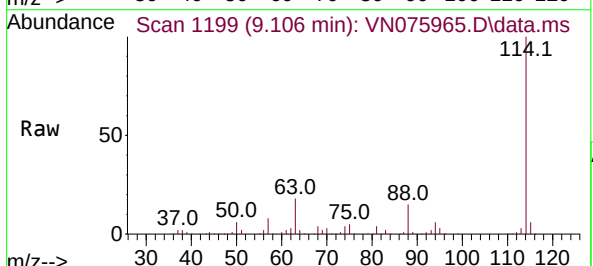
Tgt Ion: 114 Resp: 545686

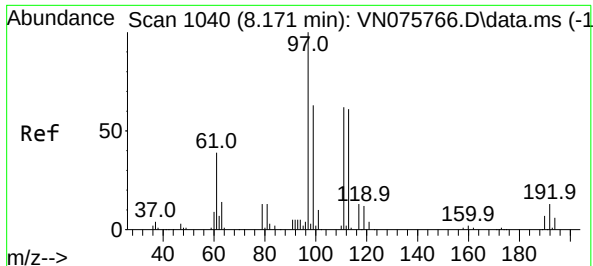
Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.4

88 15.1 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.916 ug/l

RT: 8.177 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-3049

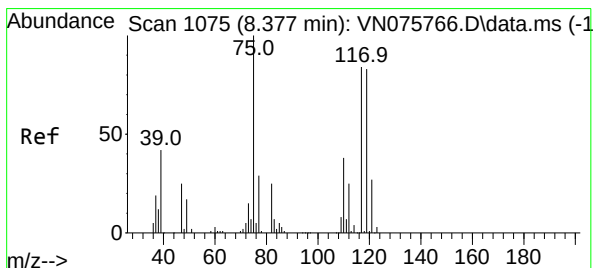
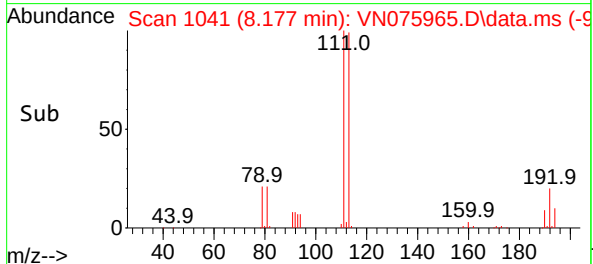
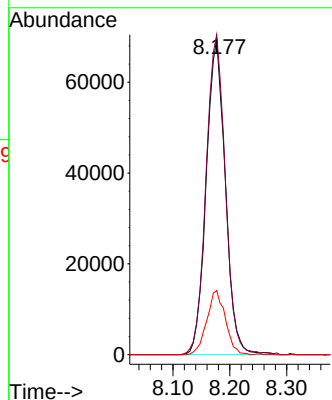
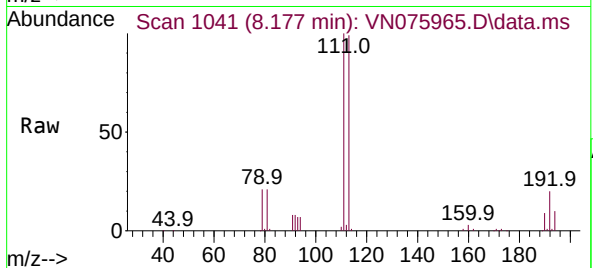
Tgt Ion:113 Resp: 161926

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.2

192 19.8 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.252 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

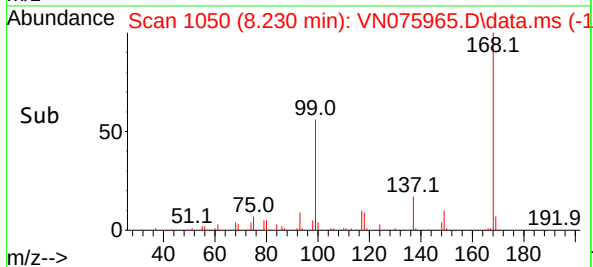
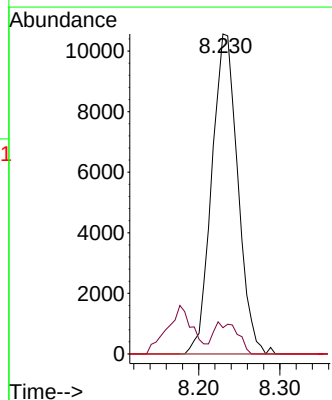
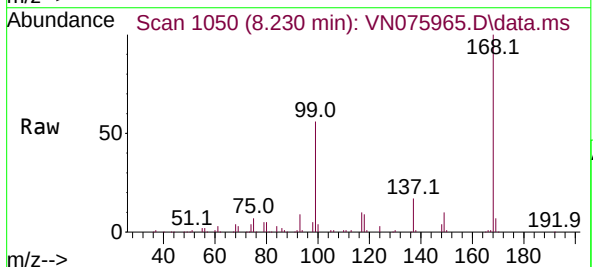
Tgt Ion: 75 Resp: 23577

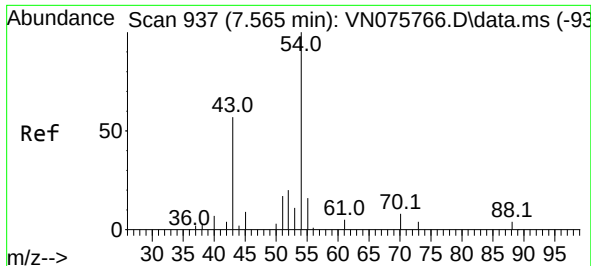
Ion Ratio Lower Upper

75 100

110 9.4 18.8 56.4#

77 0.0 24.1 36.1#

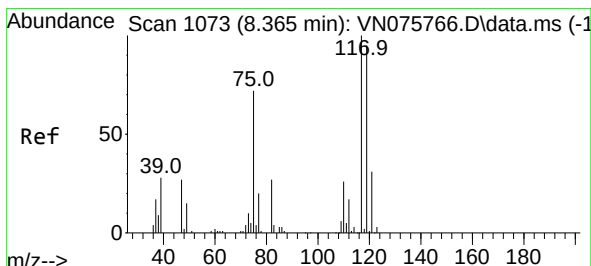
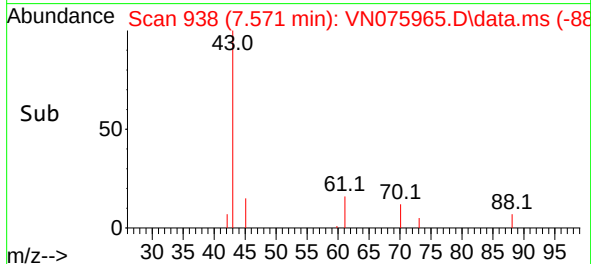
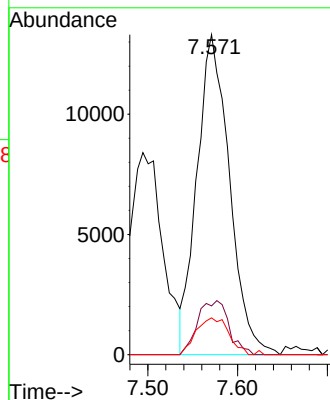
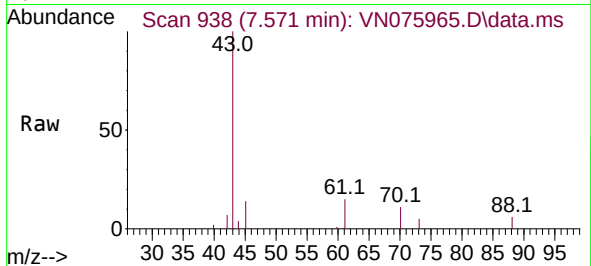




#37
Ethyl Acetate
Concen: 9.272 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

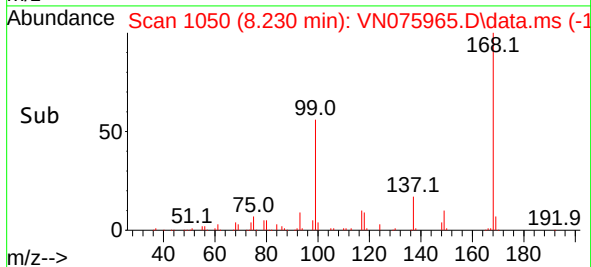
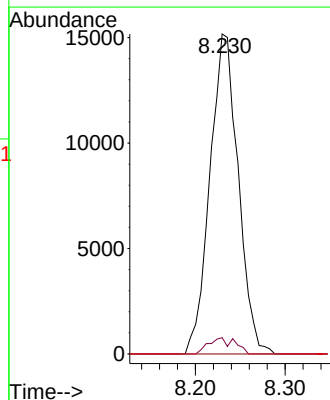
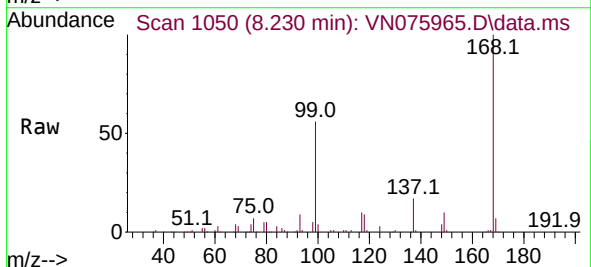
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3049

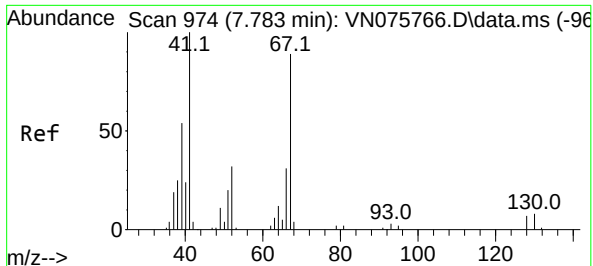
Tgt Ion: 43 Resp: 33433
Ion Ratio Lower Upper
43 100
61 16.3 13.0 19.4
70 11.5 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.615 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 117 Resp: 33235
Ion Ratio Lower Upper
117 100
119 5.1 76.1 114.1#
121 0.0 24.5 36.7#

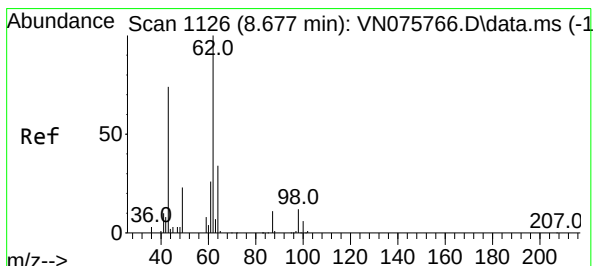
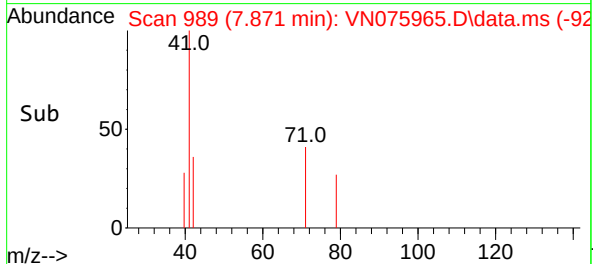
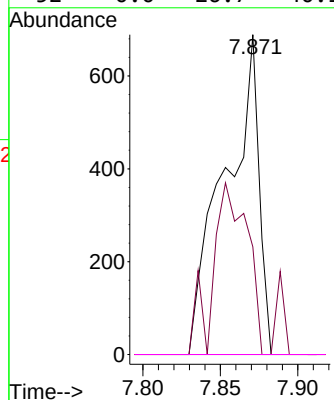
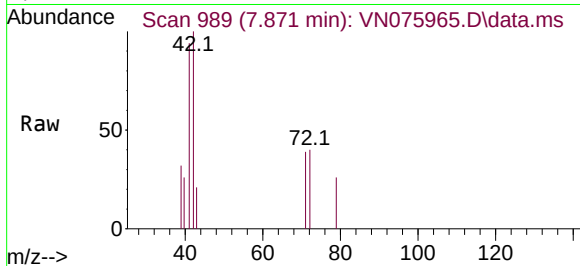




#41
Methacrylonitrile
Concen: 0.561 ug/l
RT: 7.871 min Scan# 91
Delta R.T. 0.088 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

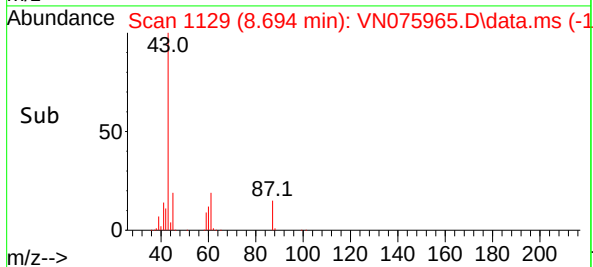
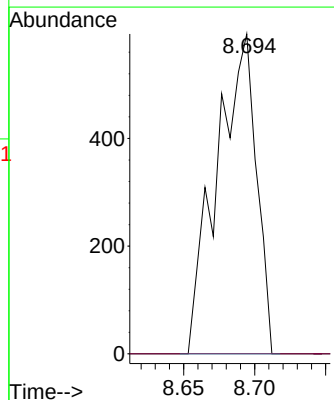
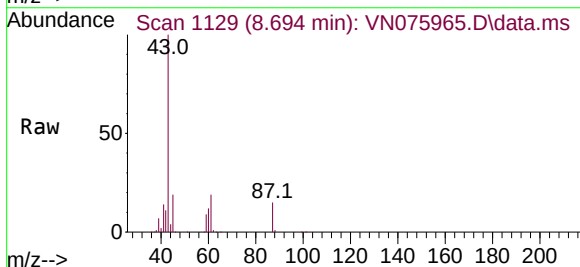
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ClientSampleId :
TCLP-VOC-3049

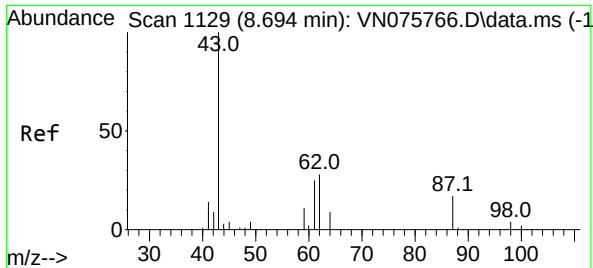
Tgt Ion: 41 Resp: 1051
Ion Ratio Lower Upper
41 100
39 54.8 43.1 64.7
67 0.0 70.7 106.1#
52 0.0 26.7 40.1#



#42
1,2-Dichloroethane
Concen: 0.250 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.018 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 62 Resp: 1150
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.8

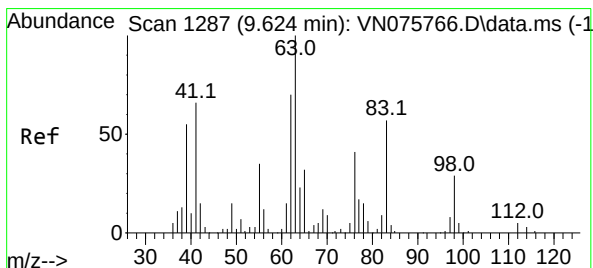
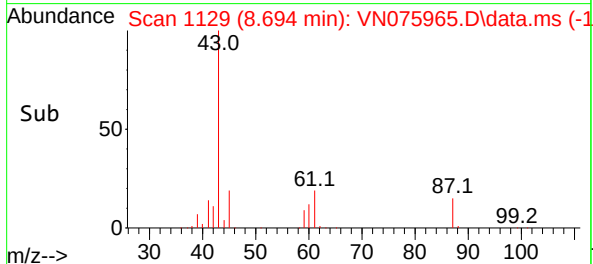
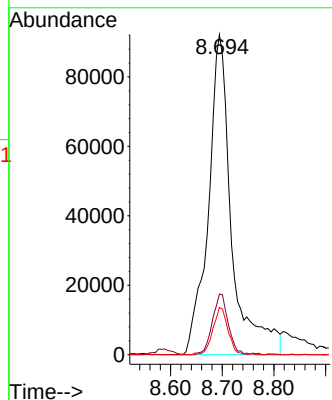
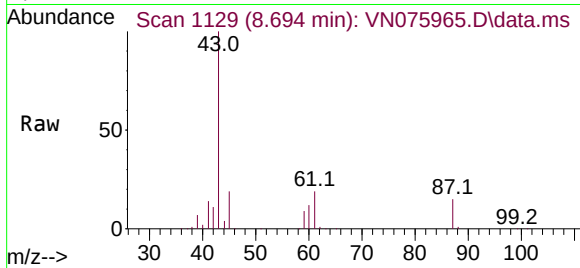




#43
Isopropyl Acetate
Concen: 48.685 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

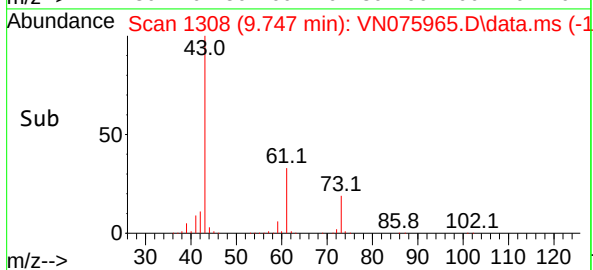
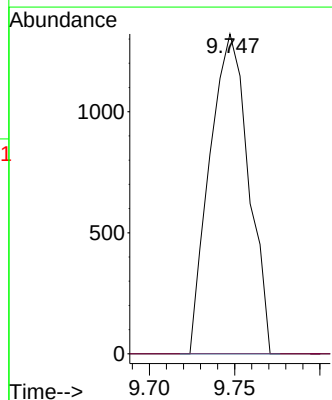
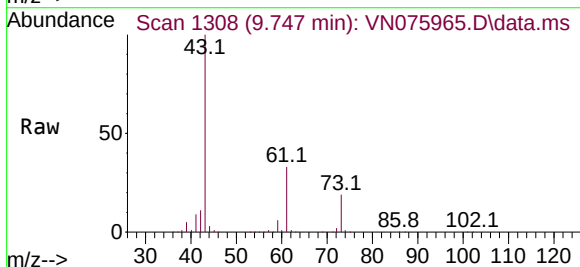
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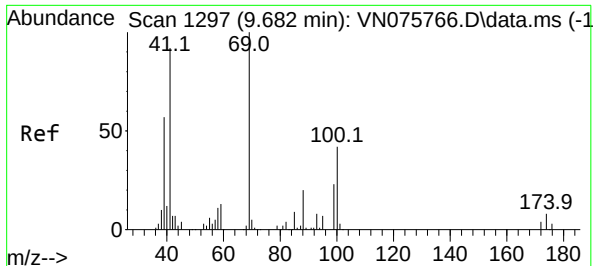
Tgt Ion: 43 Resp: 289586
Ion Ratio Lower Upper
43 100
61 12.9 24.2 36.4#
87 9.4 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.622 ug/l
RT: 9.747 min Scan# 1308
Delta R.T. 0.124 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 63 Resp: 2096
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#

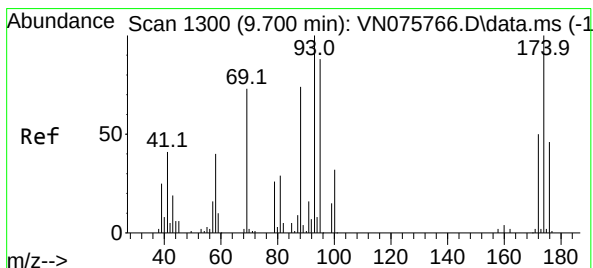
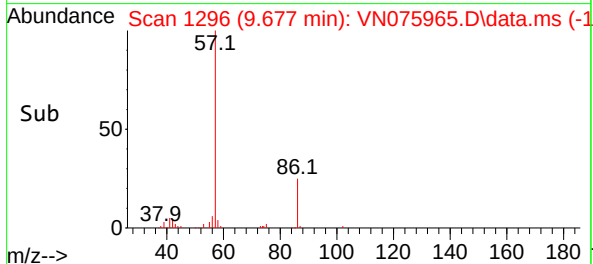
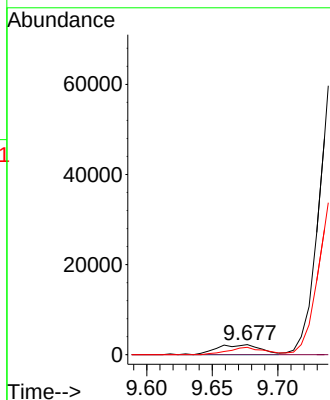
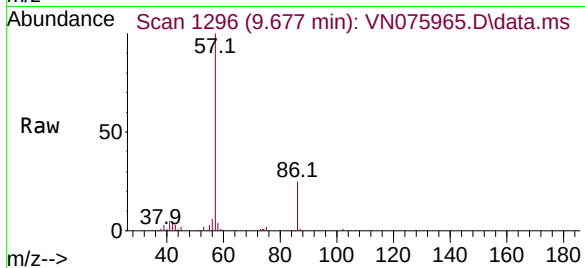




#48
Methyl methacrylate
Concen: 1.932 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

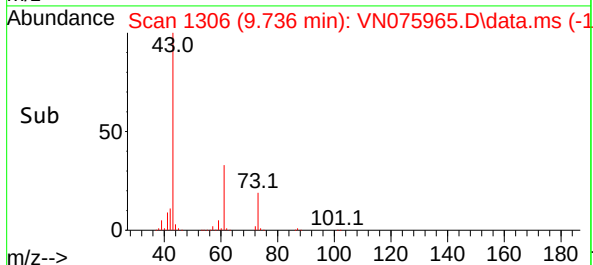
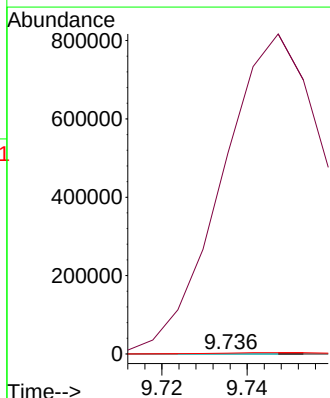
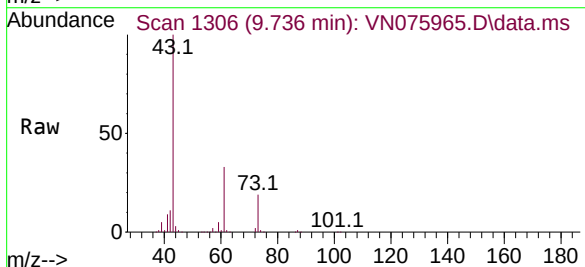
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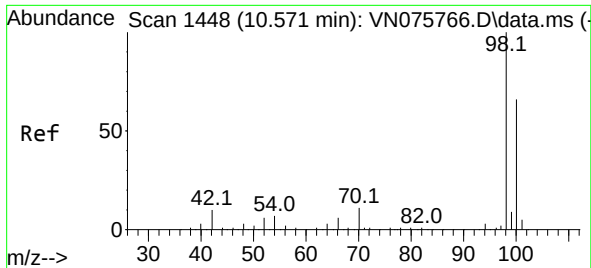
Tgt Ion: 41 Resp: 5177
Ion Ratio Lower Upper
41 100
69 0.0 81.9 122.9#
39 61.6 51.6 77.4



#49
1,4-Dioxane
Concen: 1.154 ug/l
RT: 9.736 min Scan# 1306
Delta R.T. 0.035 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 88 Resp: 76
Ion Ratio Lower Upper
88 100
43 0.0 17.1 25.7#
58 0.0 47.8 71.8#

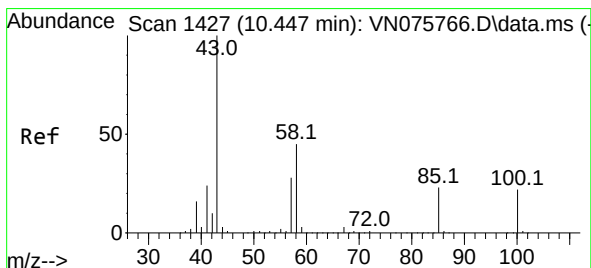
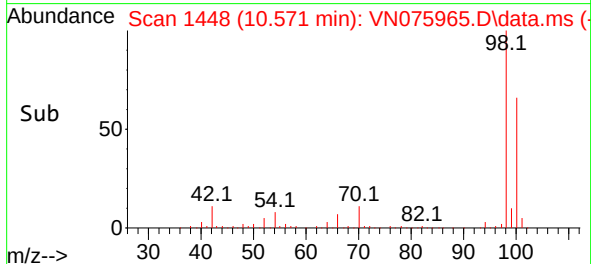
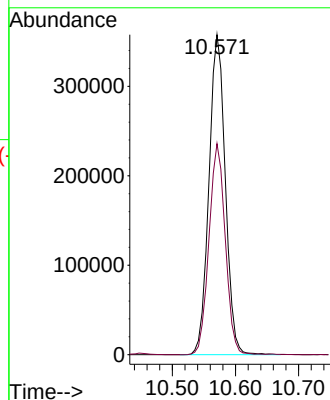
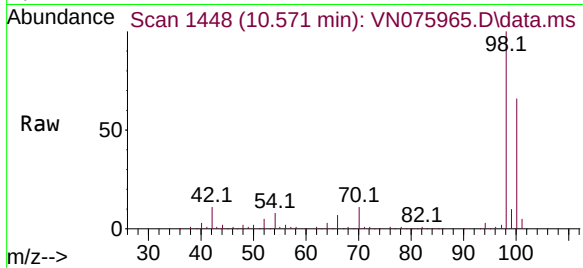




#50
Toluene-d8
Concen: 50.896 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

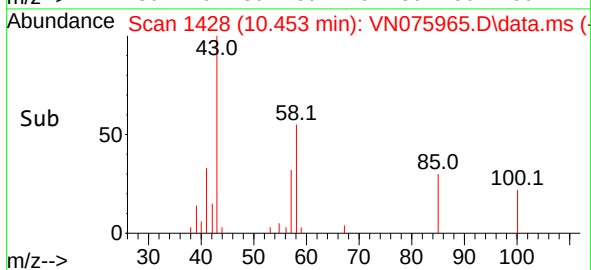
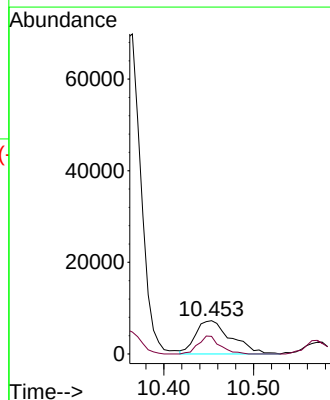
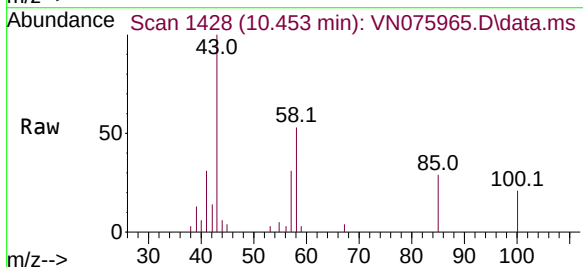
Instrument :
MSVOA_N
ClientSampleId :
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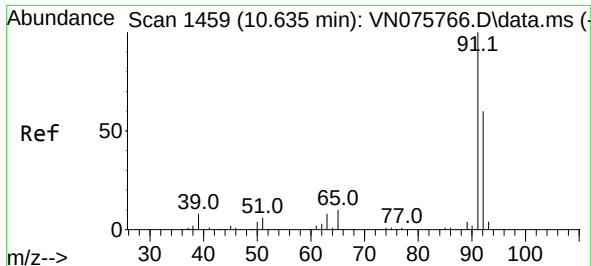
Tgt Ion: 98 Resp: 643078
Ion Ratio Lower Upper
98 100
100 65.6 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 5.566 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 43 Resp: 20022
Ion Ratio Lower Upper
43 100
58 32.7 35.5 53.3#

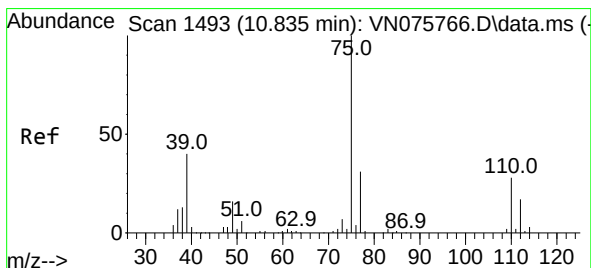
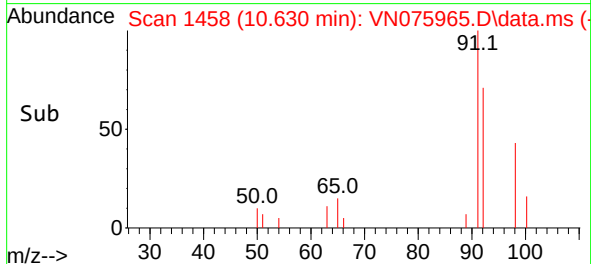
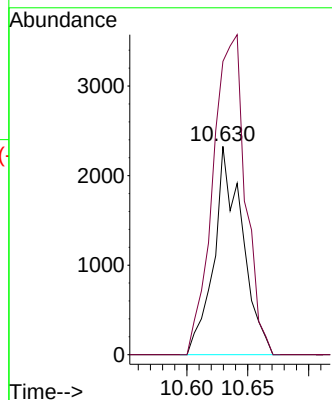
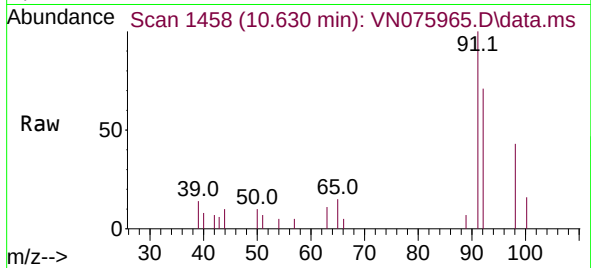




#52
Toluene
Concen: 0.419 ug/l
RT: 10.630 min Scan# 1459
Delta R.T. -0.006 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

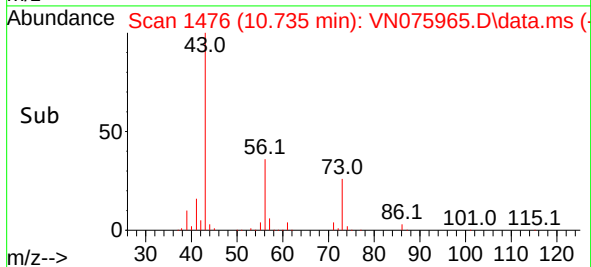
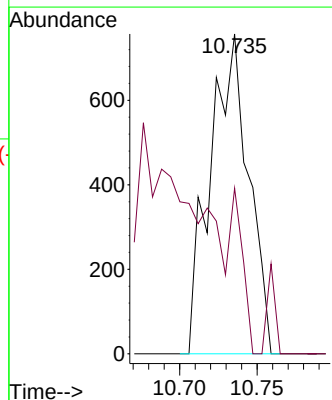
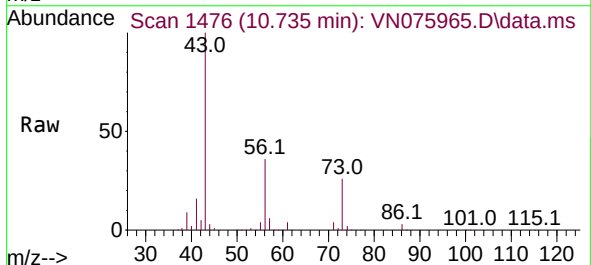
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3049

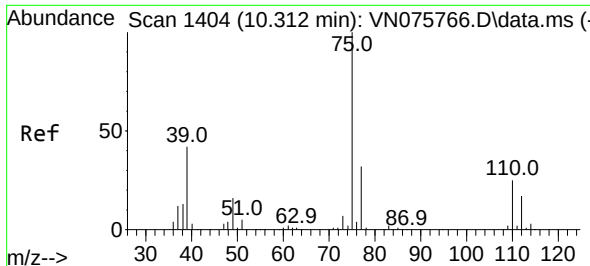
Tgt Ion: 92 Resp: 3784
Ion Ratio Lower Upper
92 100
91 175.6 137.3 205.9



#53
t-1,3-Dichloropropene
Concen: 0.272 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 75 Resp: 1303
Ion Ratio Lower Upper
75 100
77 51.8 24.9 37.3#

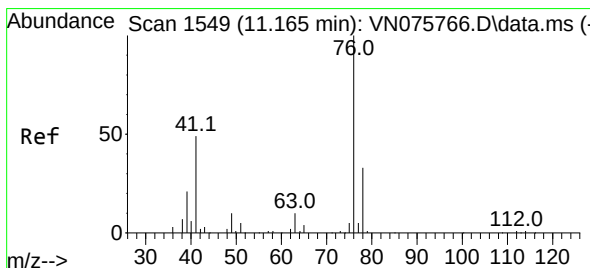
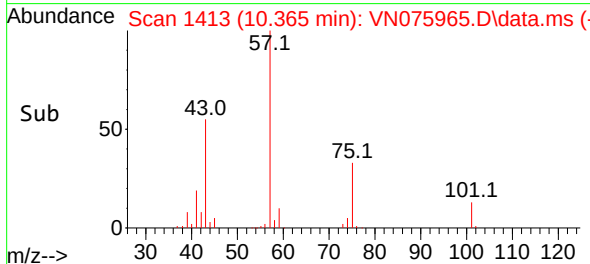
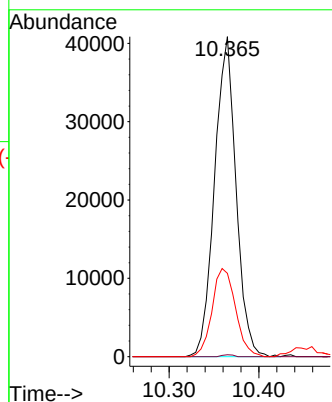
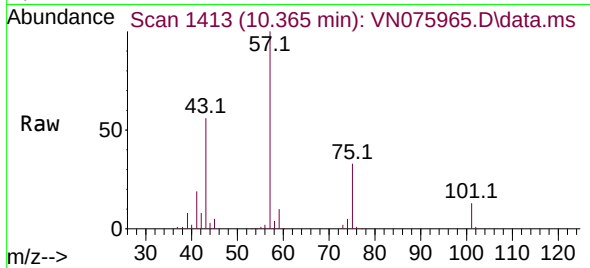




#54
 cis-1,3-Dichloropropene
 Concen: 12.871 ug/l
 RT: 10.365 min Scan# 1404
 Delta R.T. 0.053 min
 Lab File: VN075965.D
 Acq: 23 Dec 2022 14:45

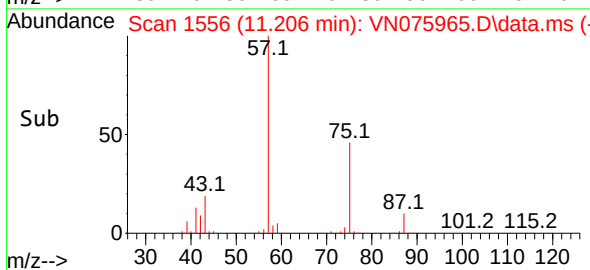
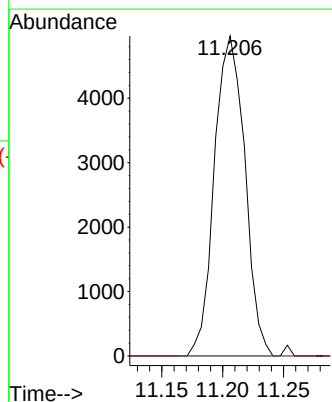
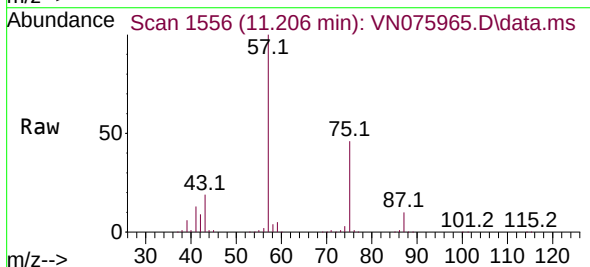
Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-3049

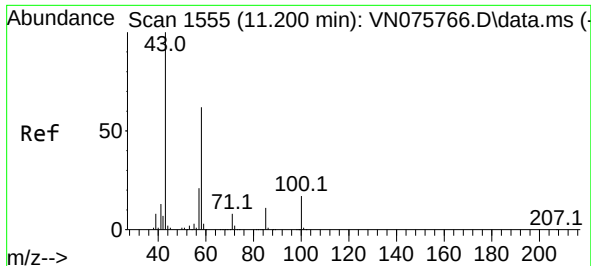
Tgt Ion: 75 Resp: 67818
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.8#
 39 26.1 33.4 50.2#



#57
 1,3-Dichloropropane
 Concen: 1.486 ug/l
 RT: 11.206 min Scan# 1556
 Delta R.T. 0.041 min
 Lab File: VN075965.D
 Acq: 23 Dec 2022 14:45

Tgt Ion: 76 Resp: 8633
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

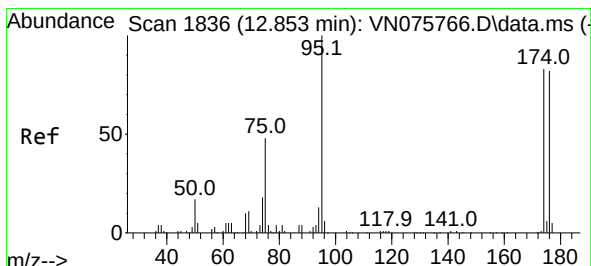
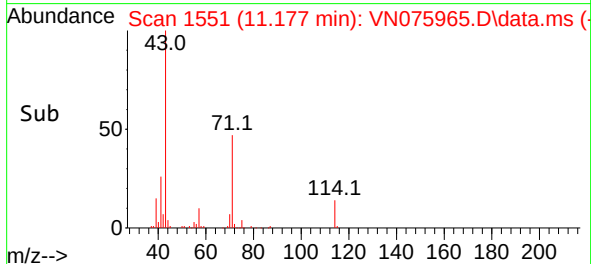
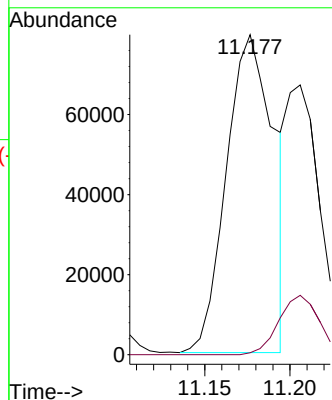
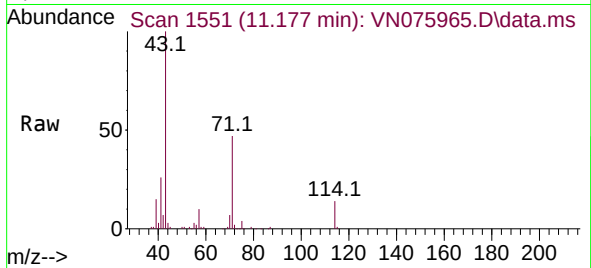




#59
2-Hexanone
Concen: 58.573 ug/l
RT: 11.177 min Scan# 1551
Delta R.T. -0.023 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

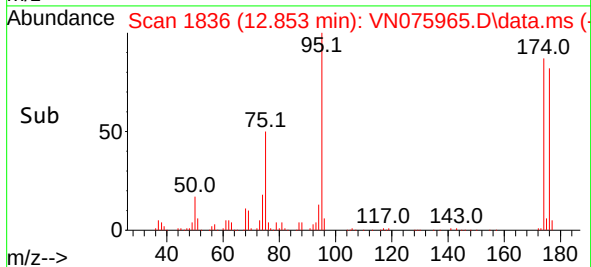
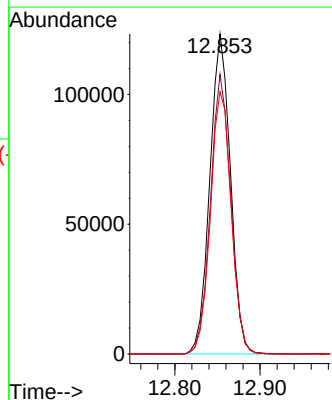
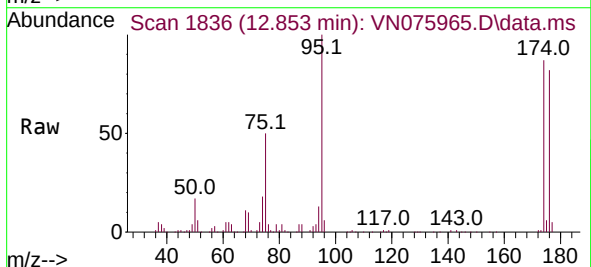
Instrument :
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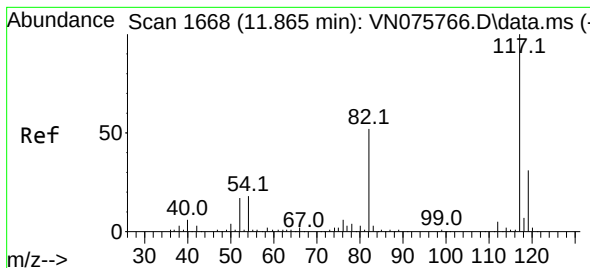
Tgt Ion: 43 Resp: 153655
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 49.402 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 95 Resp: 206739
Ion Ratio Lower Upper
95 100
174 86.5 0.0 171.6
176 82.7 0.0 169.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-3049

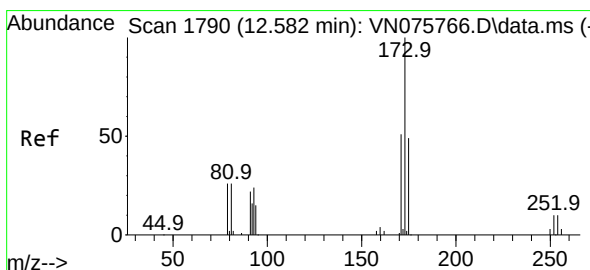
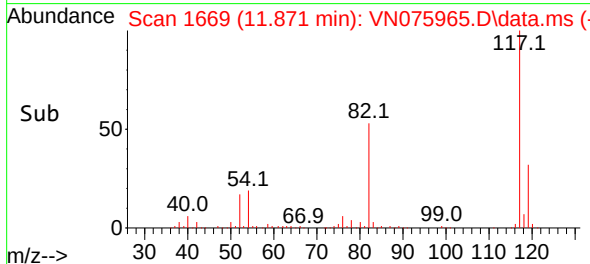
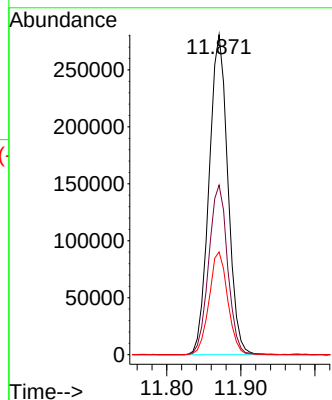
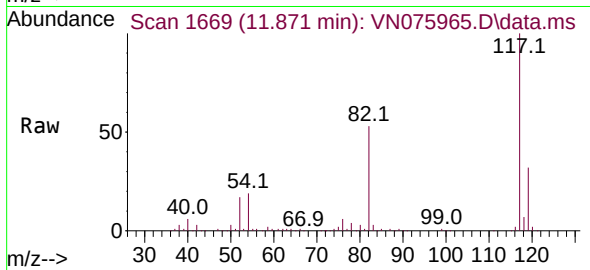
Tgt Ion:117 Resp: 495289

Ion Ratio Lower Upper

117 100

82 53.0 41.3 61.9

119 32.1 24.6 37.0



#71

Bromoform

Concen: 0.466 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.265 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

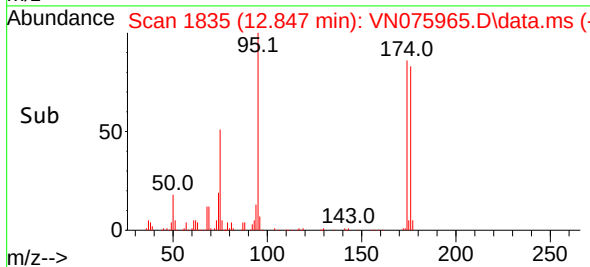
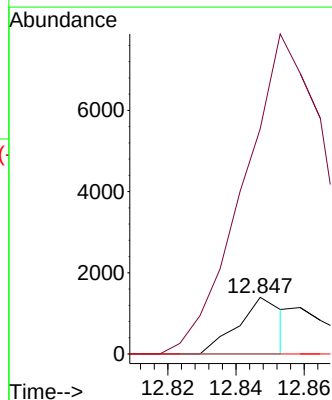
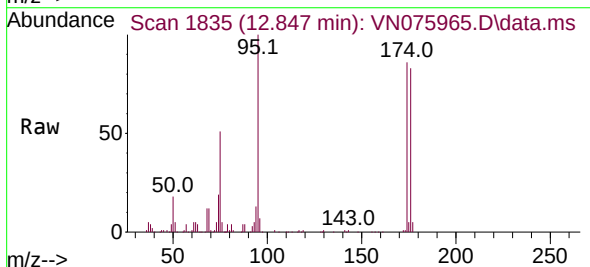
Tgt Ion:173 Resp: 1277

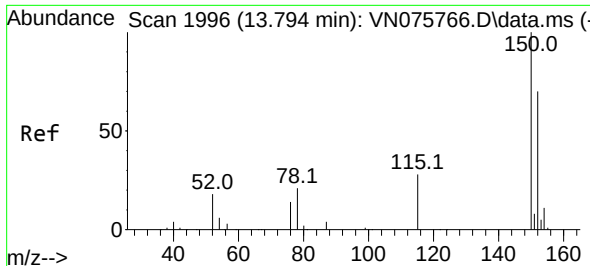
Ion Ratio Lower Upper

173 100

175 763.9 24.3 72.8#

254 0.0 0.0 0.0

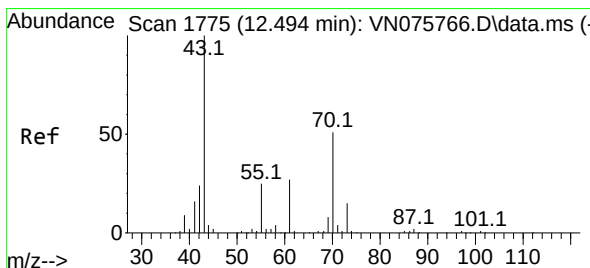
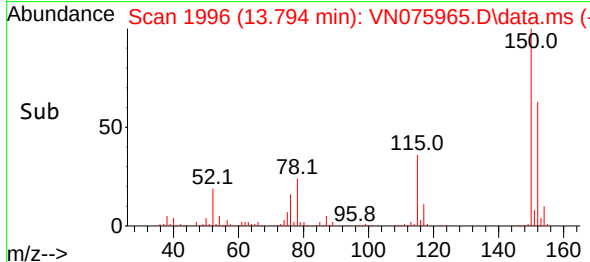
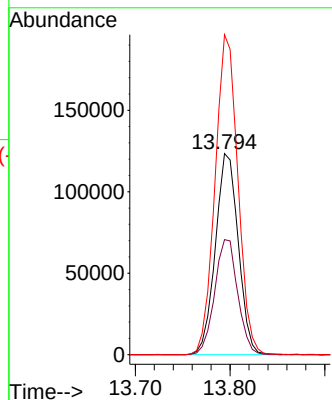
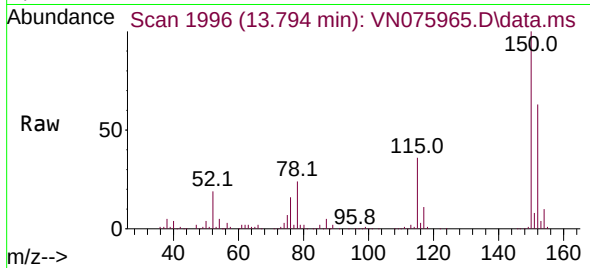




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

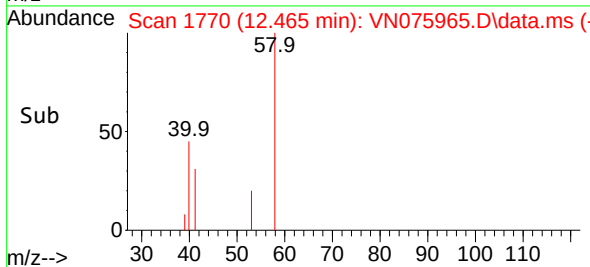
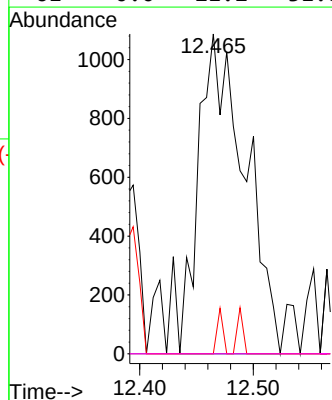
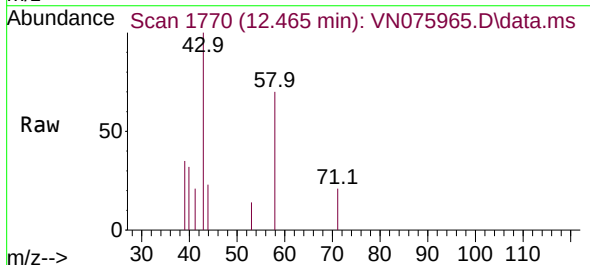
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3049

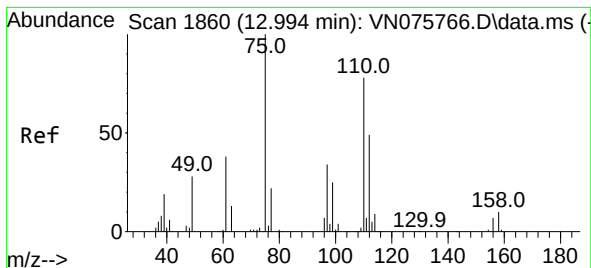
Tgt Ion:152 Resp: 207350
Ion Ratio Lower Upper
152 100
115 57.7 29.1 87.4
150 158.4 0.0 347.0



#74
N-ethyl acetate
Concen: 0.697 ug/l
RT: 12.465 min Scan# 1770
Delta R.T. -0.029 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Tgt Ion: 43 Resp: 3065
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.0#
55 0.0 21.3 31.9#
61 0.0 21.2 31.8#





#76

1,2,3-Trichloropropane

Concen: 25.093 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

Instrument :

MSVOA_N

ClientSampleId :

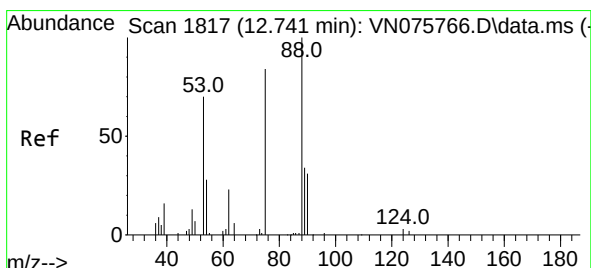
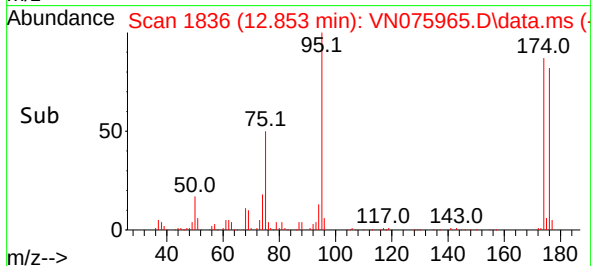
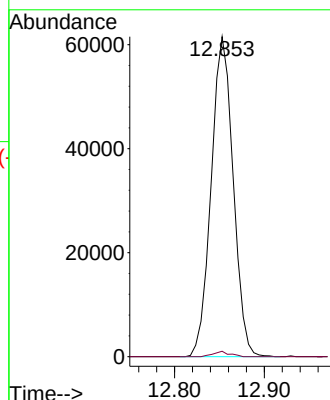
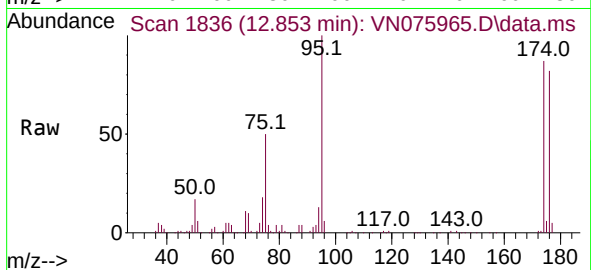
TCLP-VOC-3049

Tgt Ion: 75 Resp: 104880

Ion Ratio Lower Upper

75 100

77 1.3 82.6 247.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 90.322 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.112 min

Lab File: VN075965.D

Acq: 23 Dec 2022 14:45

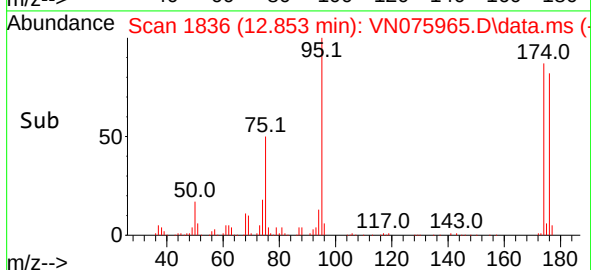
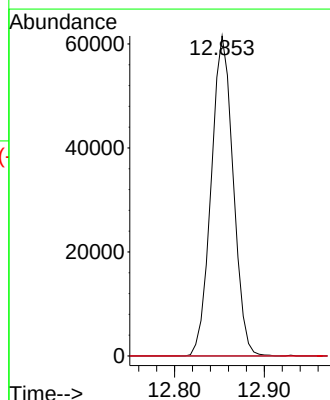
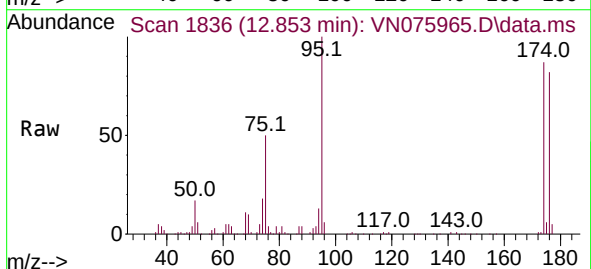
Tgt Ion: 75 Resp: 104880

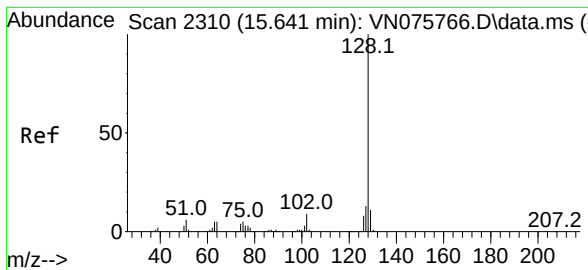
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

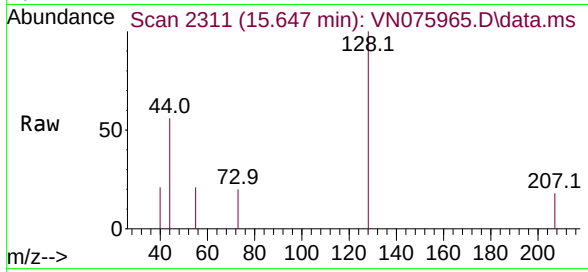
89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 2.306 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN075965.D
Acq: 23 Dec 2022 14:45

Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3049



Tgt Ion:	128	Resp:	1514
Ion	Ratio	Lower	Upper
128	100		
127	4.4	10.4	15.6#
129	0.0	8.7	13.1#

