

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022422\
 Data File : VN071063.D
 Acq On : 24 Feb 2022 18:20
 Operator : JC\MD
 Sample : N1650-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SW-SURFICIAL-SOIL-(SW-SS)

Quant Time: Feb 25 02:45:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 21 07:57:15 2022
 Response via : Initial Calibration

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

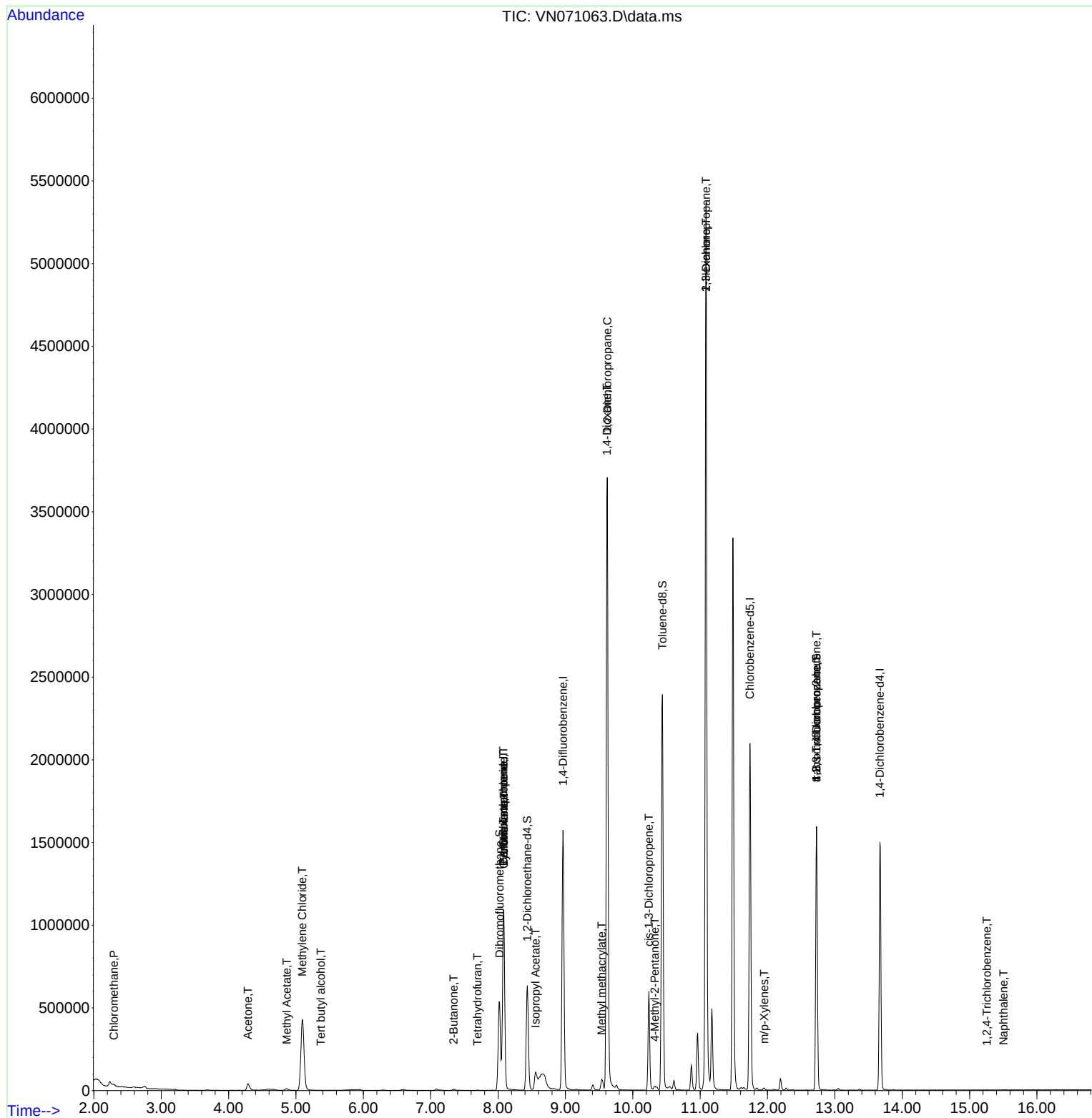
Internal Standards						
1) Pentafluorobenzene	8.080	168	851543	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1374758	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1234174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	422390	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	519528	53.409	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 106.820%			
35) Dibromofluoromethane	8.022	113	401400	49.089	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 98.180%			
50) Toluene-d8	10.439	98	1689605	51.452	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 102.900%			
62) 4-Bromofluorobenzene	12.727	95	558984	47.622	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 95.240%			
Target Compounds						Qvalue
3) Chloromethane	2.299	50	2596	0.234	ug/l #	78
11) Tert butyl alcohol	5.369	59	613	0.346	ug/l #	71
16) Acetone	4.287	43	70722	13.202	ug/l	94
18) Methyl Acetate	4.863	43	24772	1.528	ug/l	92
20) Methylene Chloride	5.092	84	344970	35.433	ug/l	96
25) 2-Butanone	7.339	43	13271	1.862	ug/l #	88
29) Tetrahydrofuran	7.692	42	1620	0.351	ug/l #	54
31) Cyclohexane	8.086	56	17677	1.051	ug/l #	27
36) 1,1-Dichloropropene	8.080	75	65372	4.880	ug/l #	48
38) Carbon Tetrachloride	8.080	117	82303	6.235	ug/l #	16
43) Isopropyl Acetate	8.557	43	132854	5.866	ug/l #	76
45) 1,2-Dichloropropane	9.622	63	4530	0.446	ug/l #	44
48) Methyl methacrylate	9.539	41	18625	1.738	ug/l #	8
49) 1,4-Dioxane	9.616	88	590	3.099	ug/l #	1
51) 4-Methyl-2-Pentanone	10.327	43	17935	1.302	ug/l	90
54) cis-1,3-Dichloropropene	10.239	75	103764	6.436	ug/l #	61
57) 1,3-Dichloropropane	11.086	76	54880	3.255	ug/l #	43
59) 2-Hexanone	11.086	43	863288	91.099	ug/l #	50
68) m/p-Xylenes	11.951	106	3608	0.201	ug/l	75
76) 1,2,3-Trichloropropane	12.727	75	286088	28.766	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	286088	93.216	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.256	180	58	2.006	ug/l #	1
95) Naphthalene	15.504	128	1396	5.056	ug/l #	69

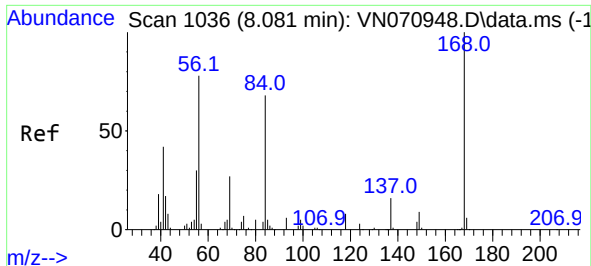
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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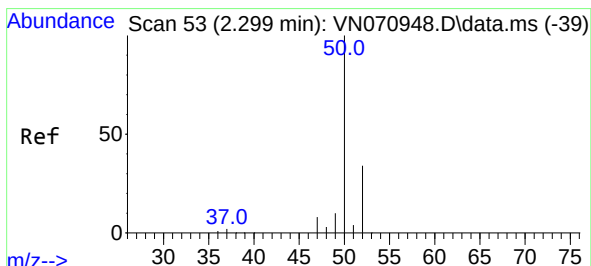
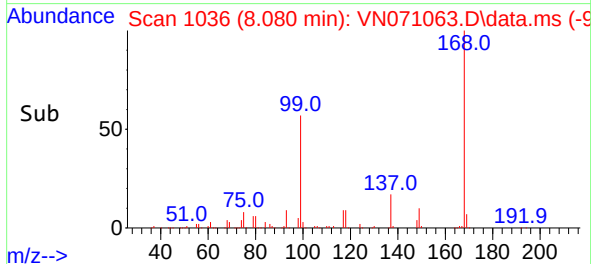
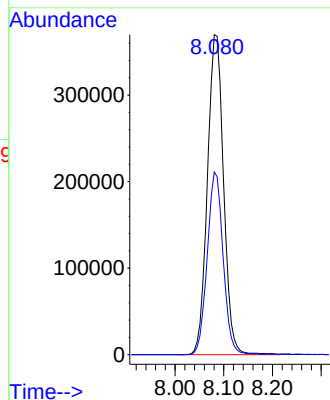
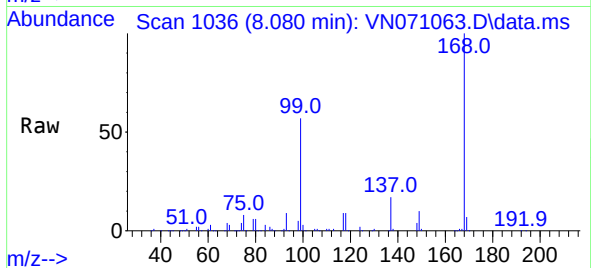




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

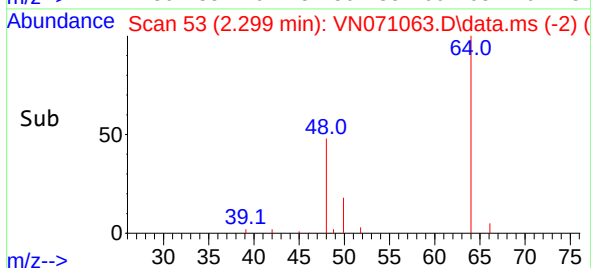
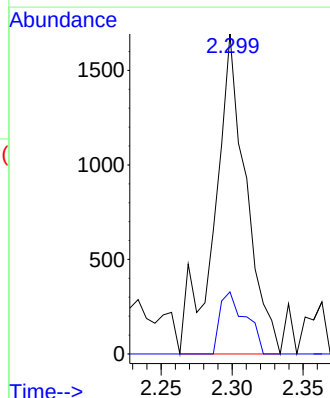
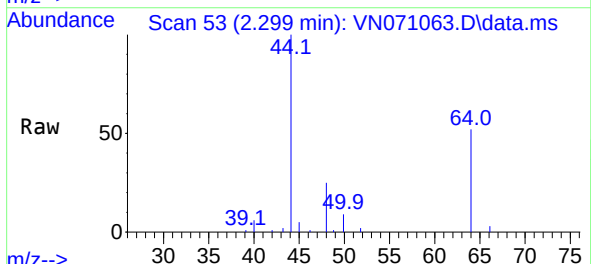
Instrument :
MSVOA_N
ClientSampleId :
SW-SURFICIAL-SOIL-(SW-SS)

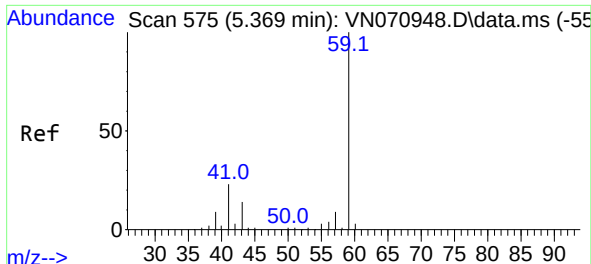
Tgt Ion:168 Resp: 851543
Ion Ratio Lower Upper
168 100
99 57.1 41.3 61.9



#3
Chloromethane
Concen: 0.234 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 50 Resp: 2596
Ion Ratio Lower Upper
50 100
52 19.4 25.4 38.0#





#11

Tert butyl alcohol

Concen: 0.346 ug/l

RT: 5.369 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN071063.D

Acq: 24 Feb 2022 18:20

Instrument :

MSVOA_N

ClientSampleId :

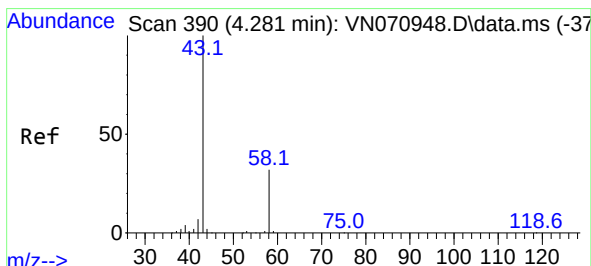
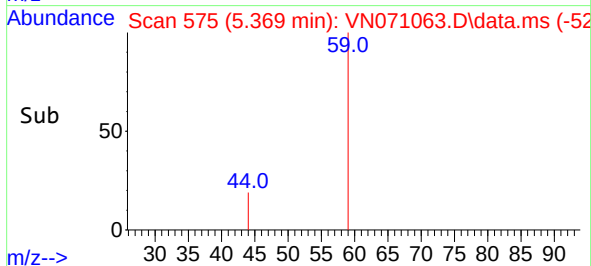
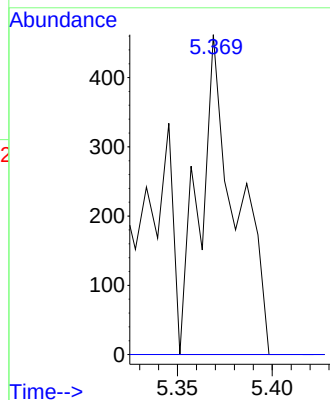
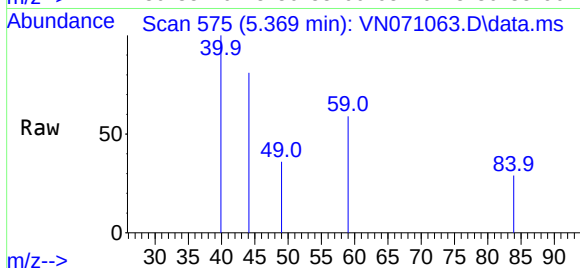
SW-SURFICIAL-SOIL-(SW-SS)

Tgt Ion: 59 Resp: 613

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#16

Acetone

Concen: 13.202 ug/l

RT: 4.287 min Scan# 391

Delta R.T. 0.006 min

Lab File: VN071063.D

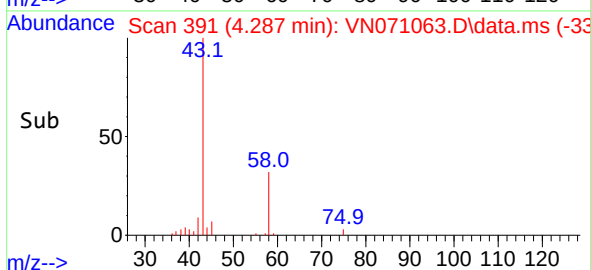
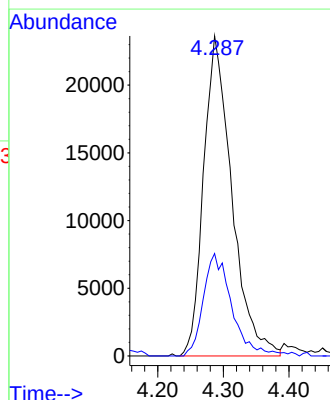
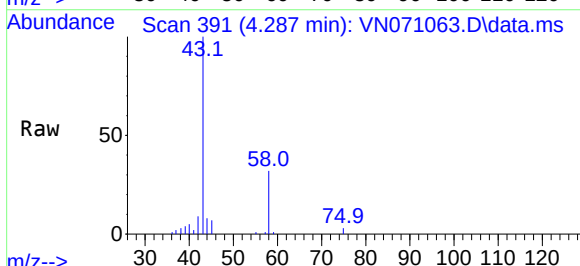
Acq: 24 Feb 2022 18:20

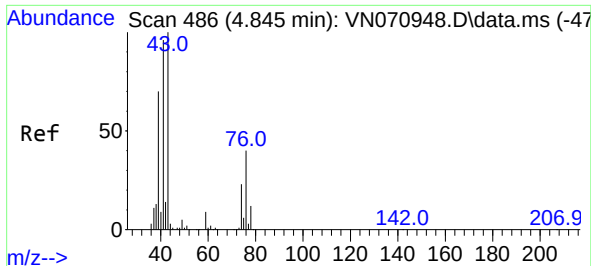
Tgt Ion: 43 Resp: 70722

Ion Ratio Lower Upper

43 100

58 32.0 23.1 34.7

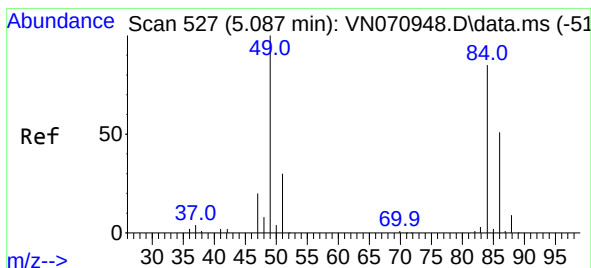
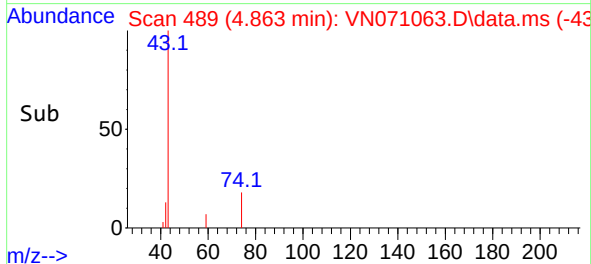
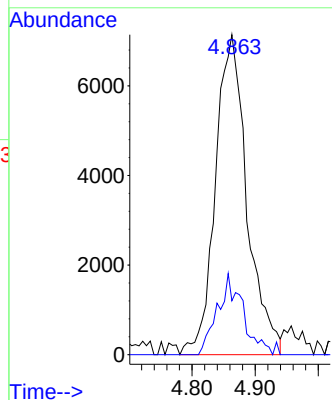
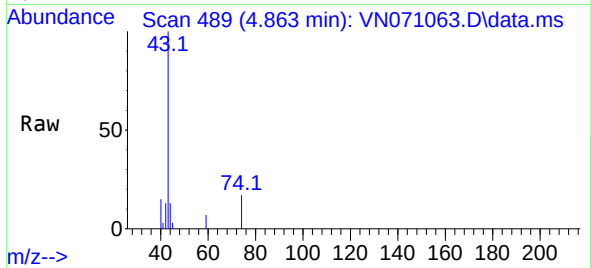




#18
Methyl Acetate
Concen: 1.528 ug/l
RT: 4.863 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

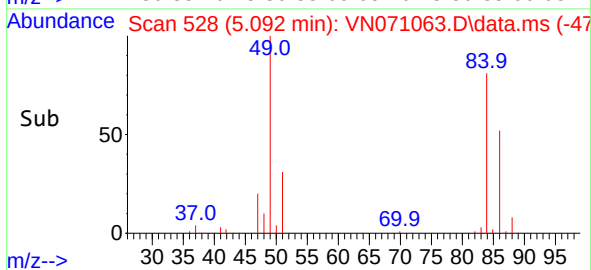
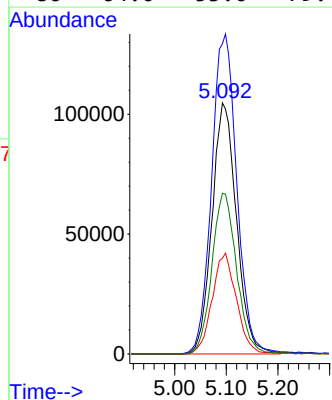
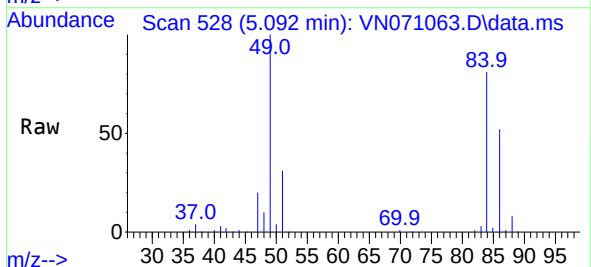
Instrument :
MSVOA_N
ClientSampleId :
SW-SURFICIAL-SOIL-(SW-SS)

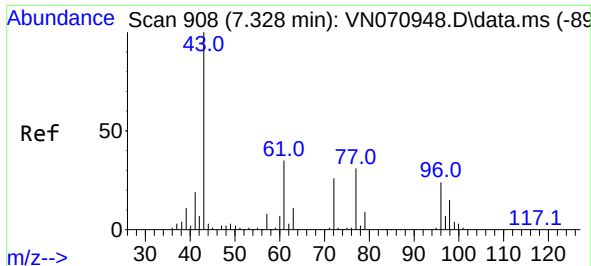
Tgt Ion: 43 Resp: 24772
Ion Ratio Lower Upper
43 100
74 20.5 19.4 29.2



#20
Methylene Chloride
Concen: 35.433 ug/l
RT: 5.092 min Scan# 528
Delta R.T. 0.006 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 84 Resp: 344970
Ion Ratio Lower Upper
84 100
49 123.6 93.5 140.3
51 38.2 29.4 44.2
86 64.0 53.0 79.4

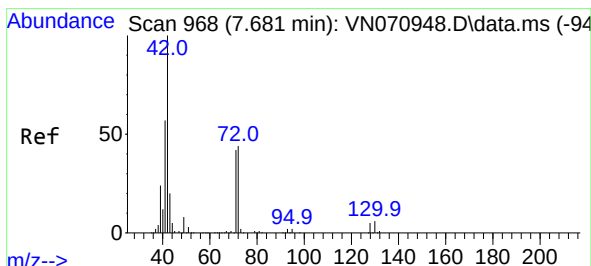
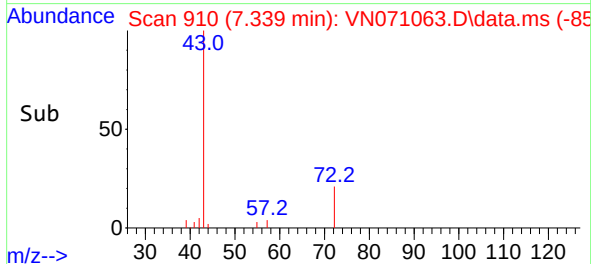
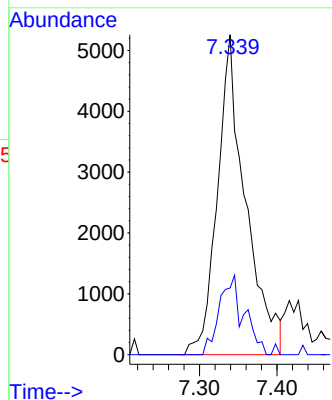
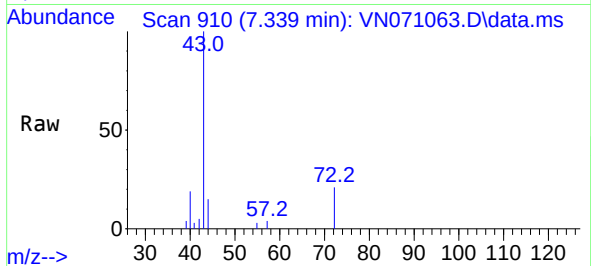




#25
2-Butanone
Concen: 1.862 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.012 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

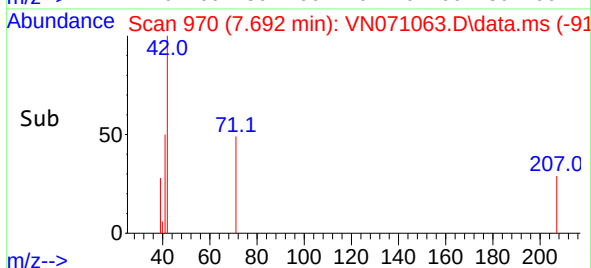
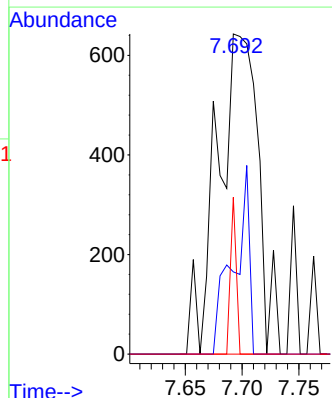
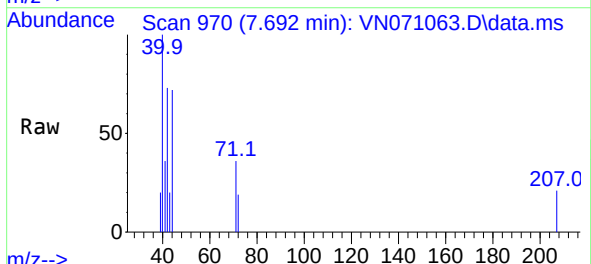
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SW-SURFICIAL-SOIL-(SW-SS)

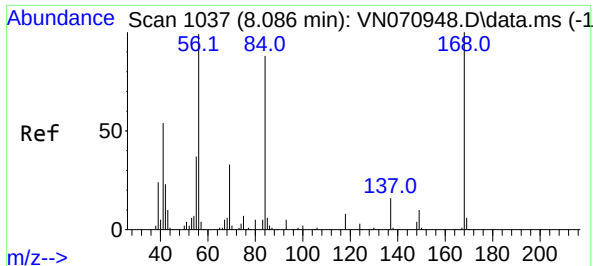
Tgt Ion: 43 Resp: 13271
Ion Ratio Lower Upper
43 100
72 20.9 21.7 32.5#



#29
Tetrahydrofuran
Concen: 0.351 ug/l
RT: 7.692 min Scan# 970
Delta R.T. 0.012 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 42 Resp: 1620
Ion Ratio Lower Upper
42 100
72 22.7 36.3 54.5#
71 6.9 34.7 52.1#

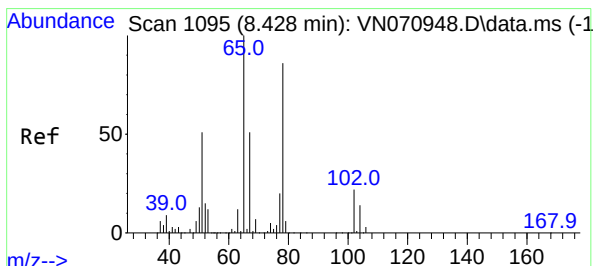
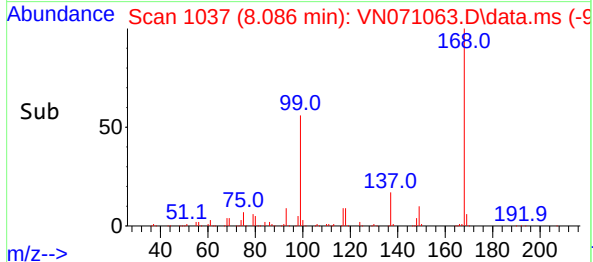
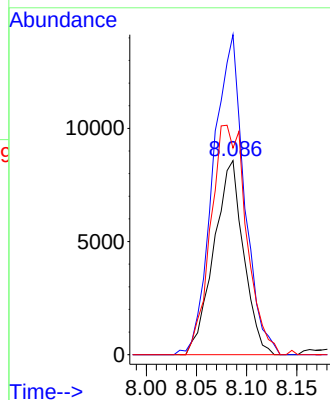
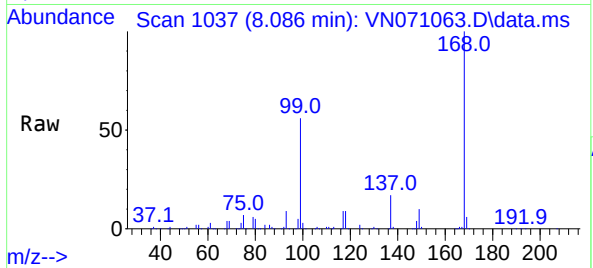




#31
Cyclohexane
Concen: 1.051 ug/l
RT: 8.086 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

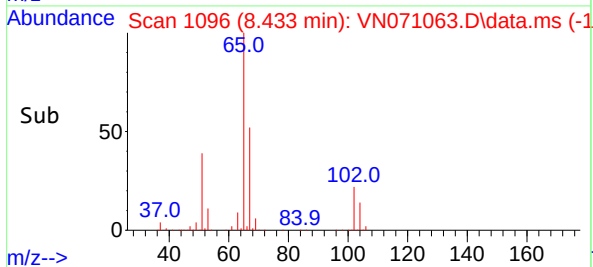
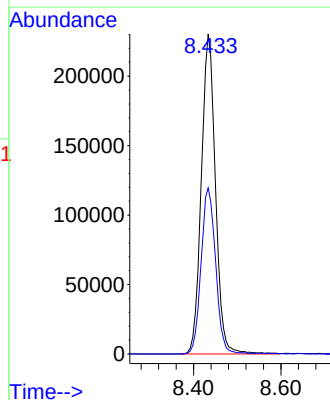
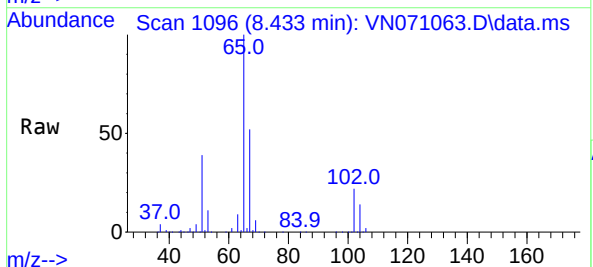
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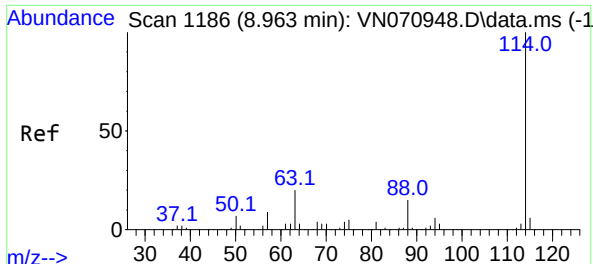
Tgt Ion: 56 Resp: 17677
Ion Ratio Lower Upper
56 100
69 164.9 27.1 40.7#
84 106.4 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 53.409 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. 0.006 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 65 Resp: 519528
Ion Ratio Lower Upper
65 100
67 53.2 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071063.D

Acq: 24 Feb 2022 18:20

Instrument :

MSVOA_N

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)

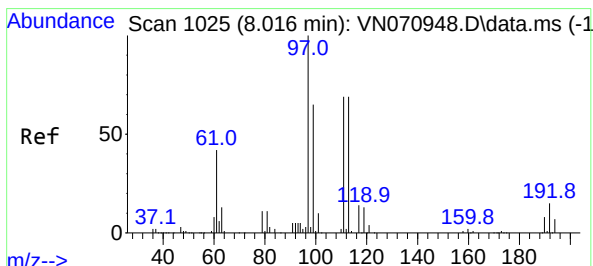
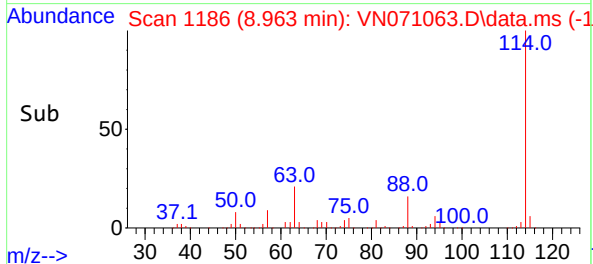
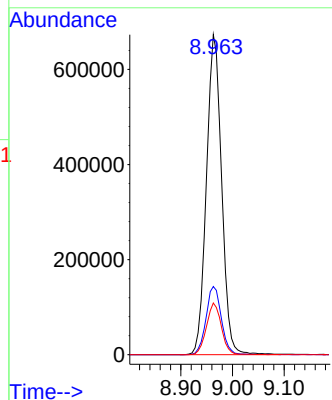
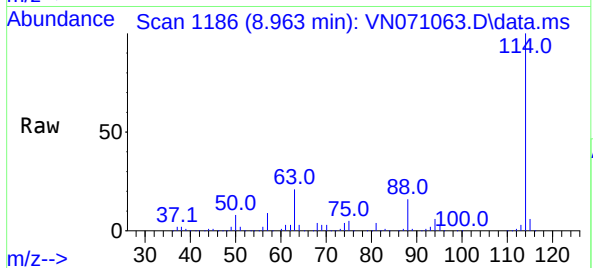
Tgt Ion:114 Resp: 1374758

Ion Ratio Lower Upper

114 100

63 21.3 0.0 37.8

88 16.2 0.0 27.4



#35

Dibromofluoromethane

Concen: 49.089 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.006 min

Lab File: VN071063.D

Acq: 24 Feb 2022 18:20

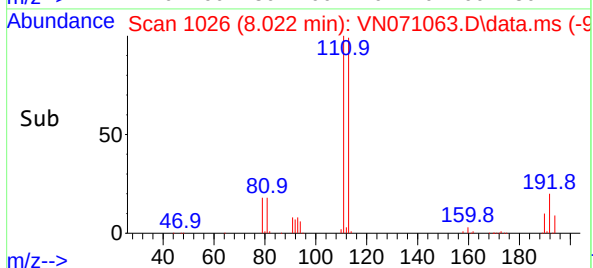
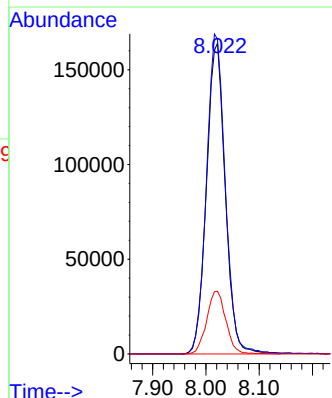
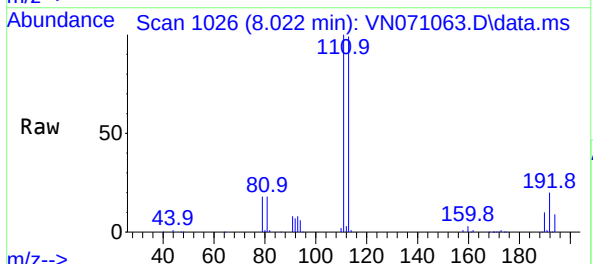
Tgt Ion:113 Resp: 401400

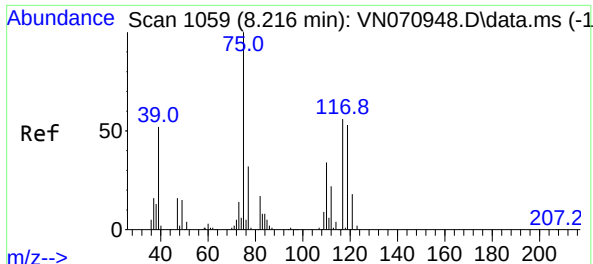
Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.2

192 20.6 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.880 ug/l

RT: 8.080 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071063.D

Acq: 24 Feb 2022 18:20

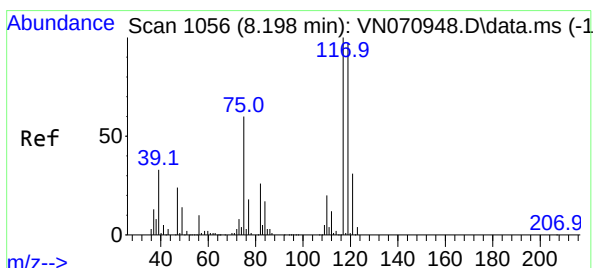
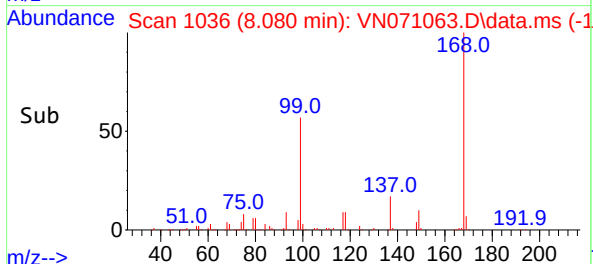
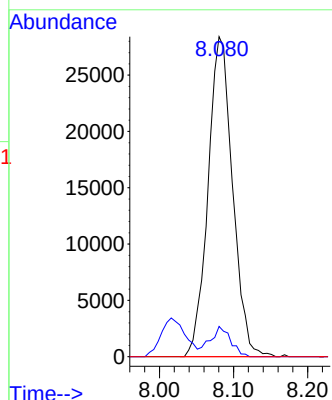
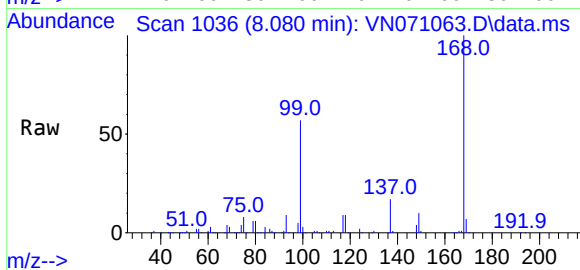
Instrument :

MSVOA_N

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)

Tgt Ion: 75	Resp: 65372
Ion Ratio	Lower Upper
75 100	
110 8.0	18.4 55.2#
77 0.0	24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.235 ug/l

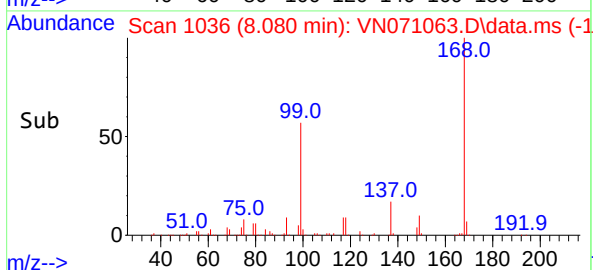
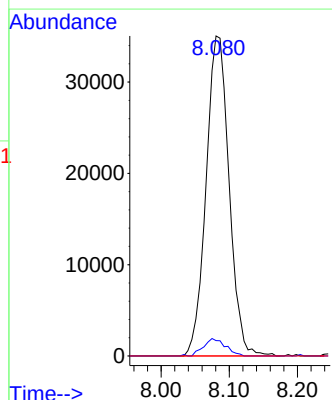
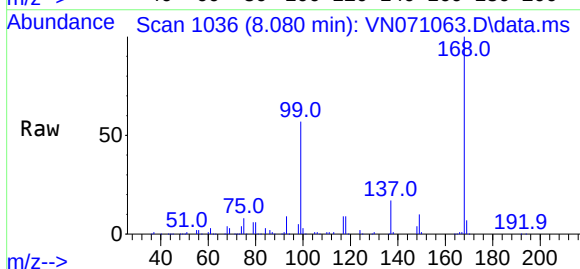
RT: 8.080 min Scan# 1036

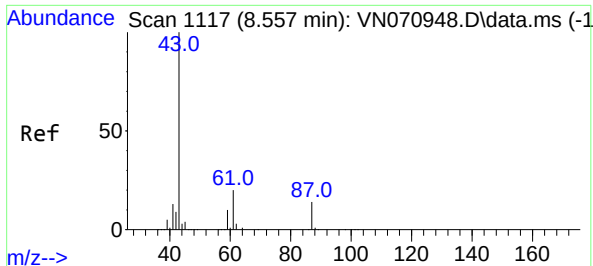
Delta R.T. -0.118 min

Lab File: VN071063.D

Acq: 24 Feb 2022 18:20

Tgt Ion: 117	Resp: 82303
Ion Ratio	Lower Upper
117 100	
119 4.8	76.1 114.1#
121 0.0	24.2 36.2#

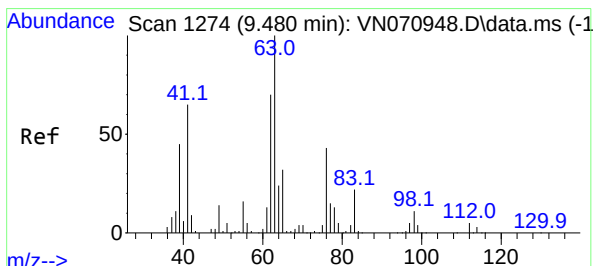
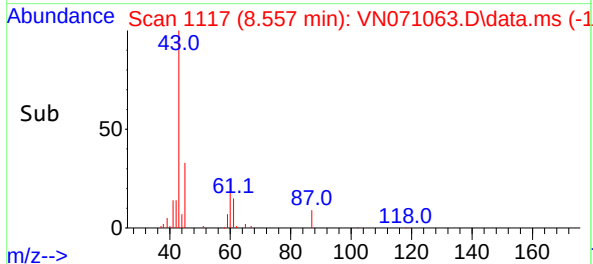
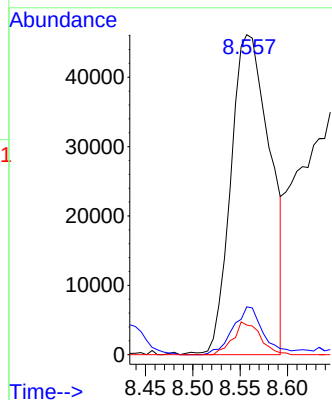
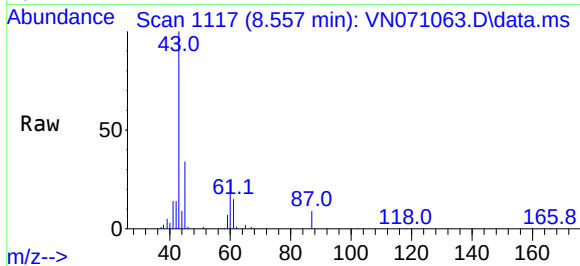




#43
Isopropyl Acetate
Concen: 5.866 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

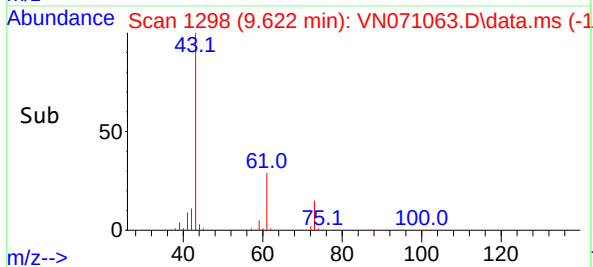
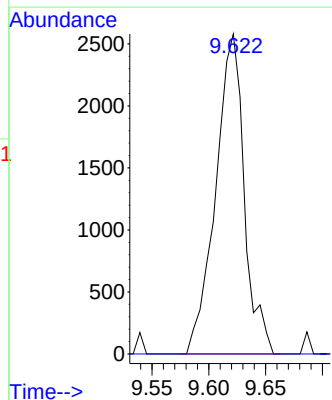
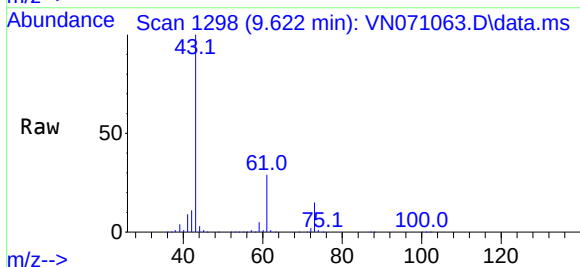
Instrument : MSVOA_N
ClientSampleId : SW-SURFICIAL-SOIL-(SW-SS)

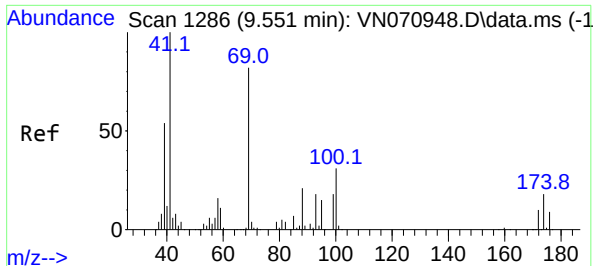
Tgt Ion: 43 Resp: 132854
Ion Ratio Lower Upper
43 100
61 11.4 20.4 30.6#
87 7.1 11.2 16.8#



#45
1,2-Dichloropropane
Concen: 0.446 ug/l
RT: 9.622 min Scan# 1298
Delta R.T. 0.141 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 63 Resp: 4530
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 1.738 ug/l

RT: 9.539 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN071063.D

Acq: 24 Feb 2022 18:20

Instrument :

MSVOA_N

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)

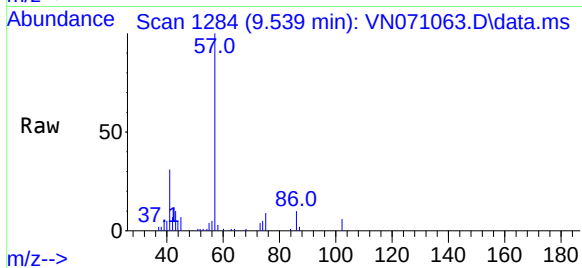
Tgt Ion: 41 Resp: 18625

Ion Ratio Lower Upper

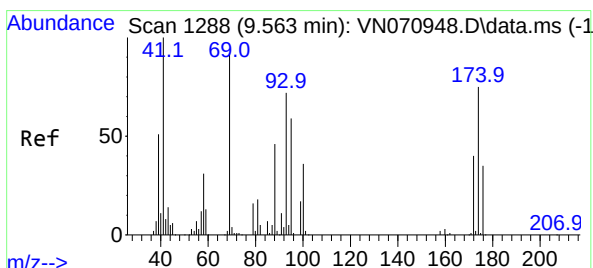
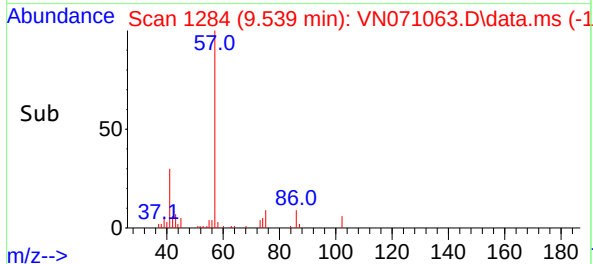
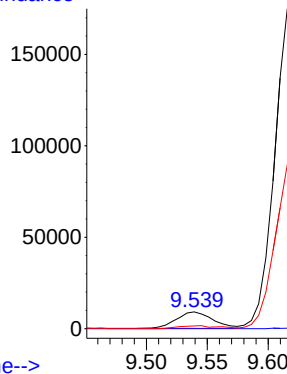
41 100

69 0.0 72.4 108.6#

39 0.0 58.4 87.6#



Abundance



#49

1,4-Dioxane

Concen: 3.099 ug/l

RT: 9.616 min Scan# 1297

Delta R.T. 0.053 min

Lab File: VN071063.D

Acq: 24 Feb 2022 18:20

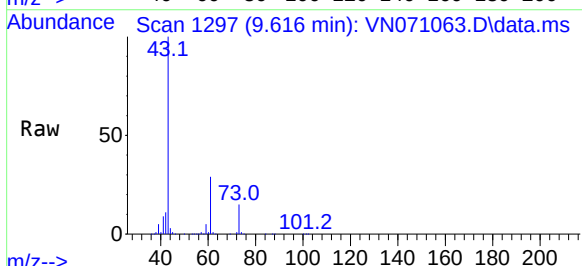
Tgt Ion: 88 Resp: 590

Ion Ratio Lower Upper

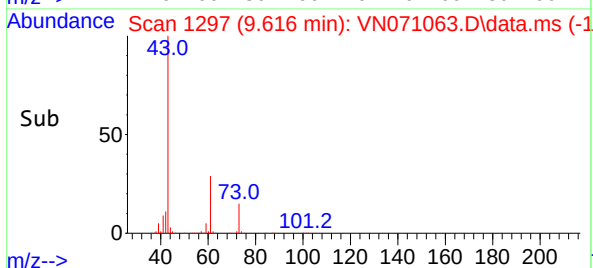
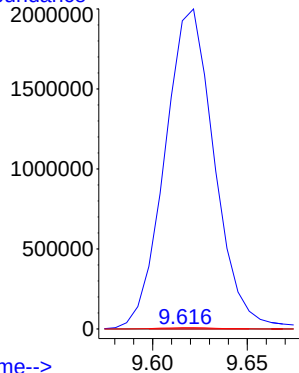
88 100

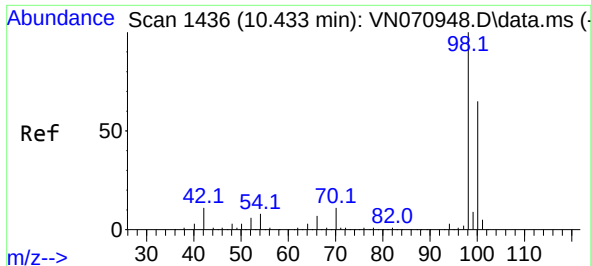
43 628175.1 23.4 35.2#

58 2816.4 50.6 75.8#



Abundance

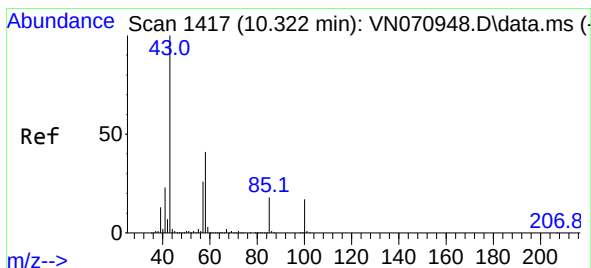
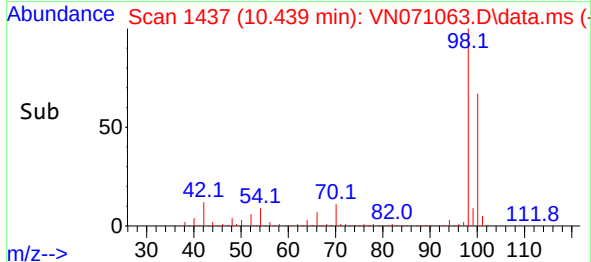
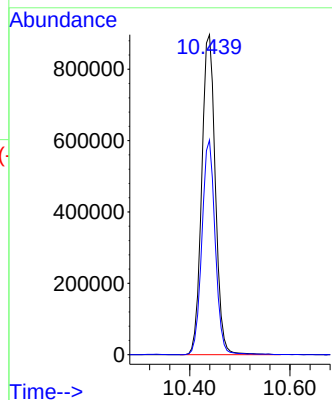
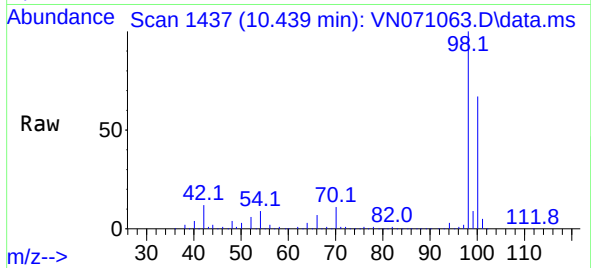




#50
Toluene-d8
Concen: 51.452 ug/l
RT: 10.439 min Scan# 1436
Delta R.T. 0.006 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

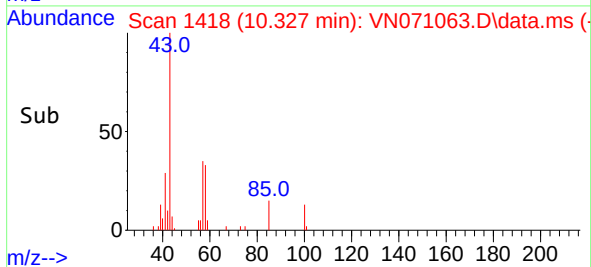
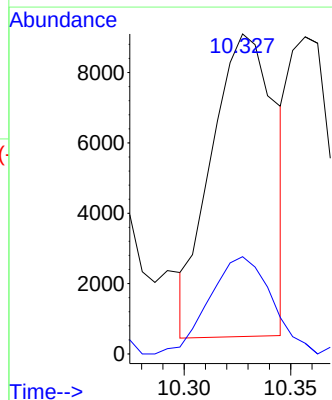
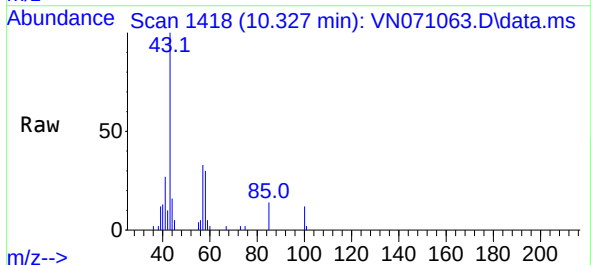
Instrument :
MSVOA_N
ClientSampleId :
SW-SURFICIAL-SOIL-(SW-SS)

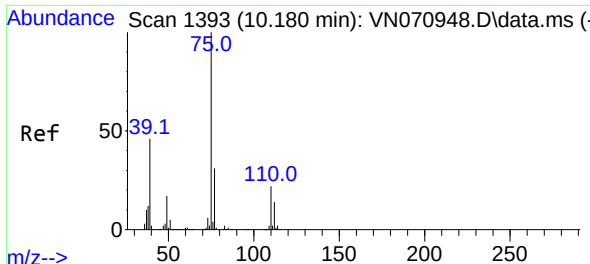
Tgt Ion: 98 Resp: 1689605
Ion Ratio Lower Upper
98 100
100 65.5 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 1.302 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. 0.006 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 43 Resp: 17935
Ion Ratio Lower Upper
43 100
58 32.2 30.4 45.6

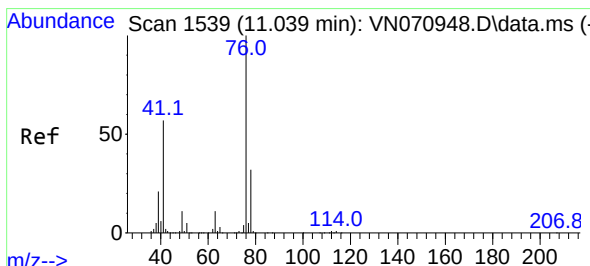
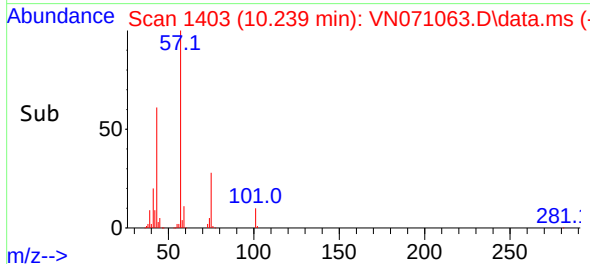
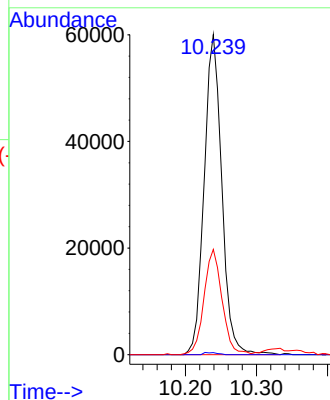
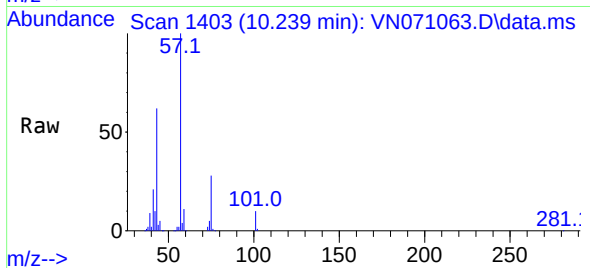




#54
cis-1,3-Dichloropropene
Concen: 6.436 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.059 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

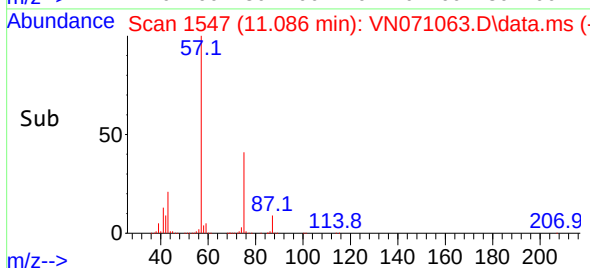
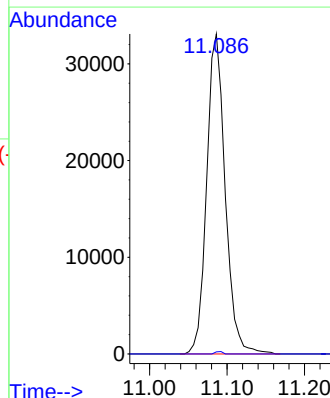
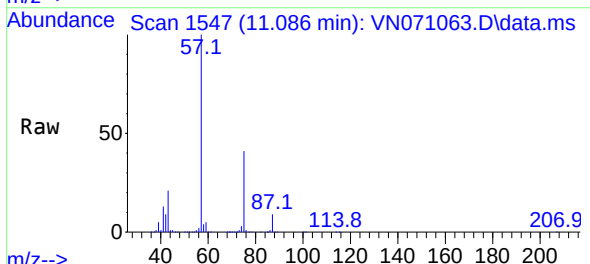
Instrument : MSVOA_N
ClientSampleId : SW-SURFICIAL-SOIL-(SW-SS)

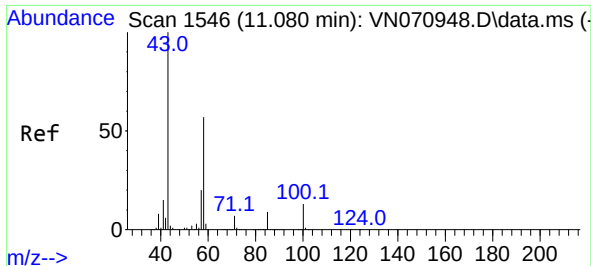
Tgt Ion: 75 Resp: 103764
Ion Ratio Lower Upper
75 100
77 0.7 26.4 39.6#
39 32.9 42.5 63.7#



#57
1,3-Dichloropropane
Concen: 3.255 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.047 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 76 Resp: 54880
Ion Ratio Lower Upper
76 100
78 0.3 25.7 38.5#

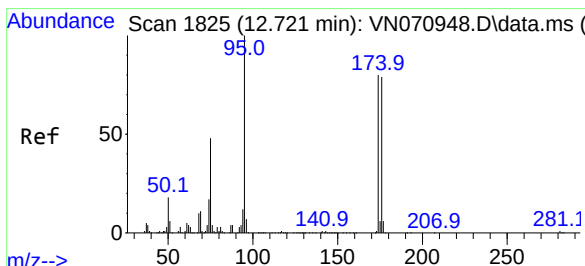
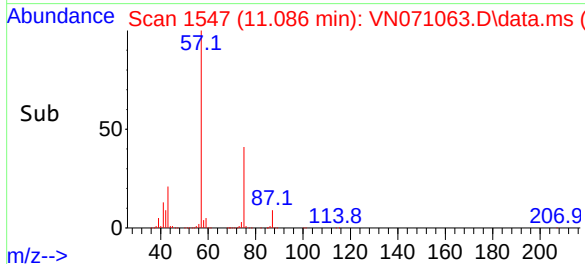
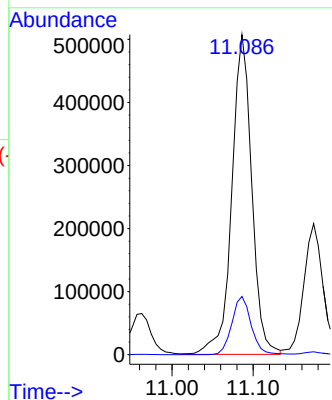
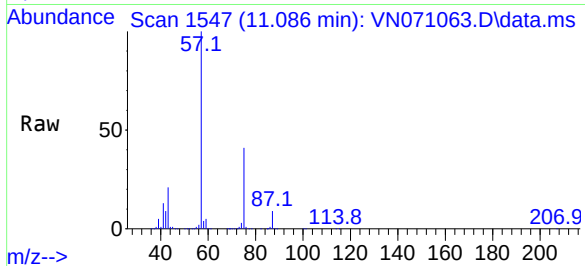




#59
2-Hexanone
Concen: 91.099 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

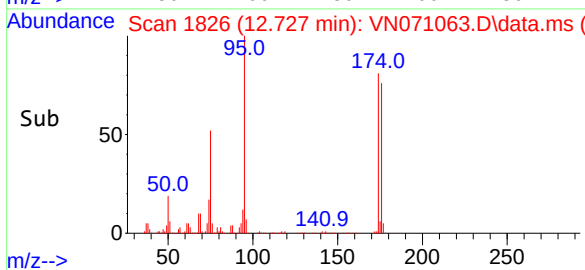
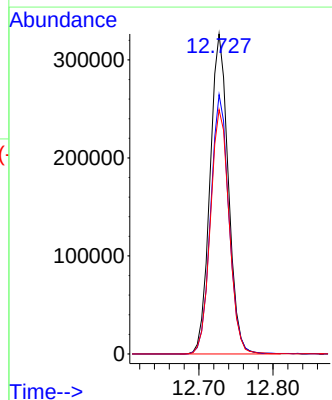
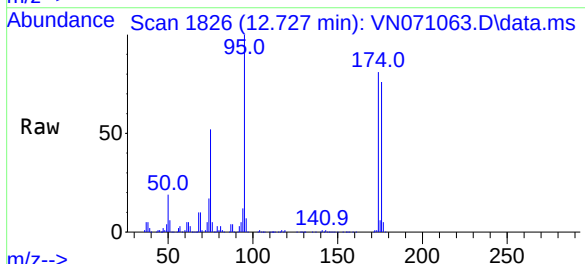
Instrument :
MSVOA_N
ClientSampleId :
SW-SURFICIAL-SOIL-(SW-SS)

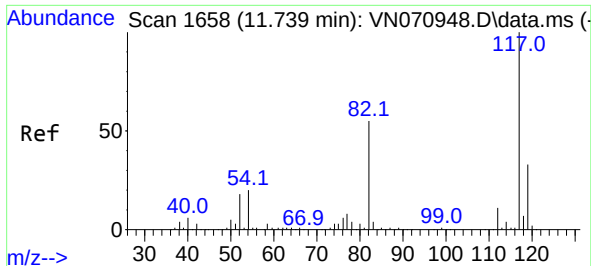
Tgt Ion: 43 Resp: 863288
Ion Ratio Lower Upper
43 100
58 17.7 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 47.622 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 95 Resp: 558984
Ion Ratio Lower Upper
95 100
174 80.8 0.0 187.2
176 78.0 0.0 181.4

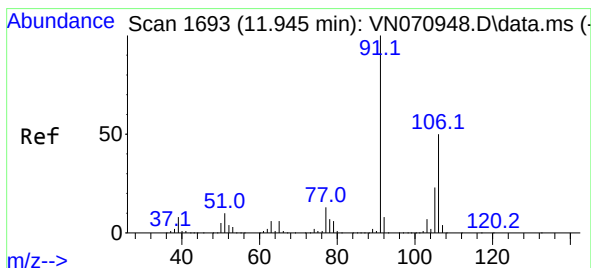
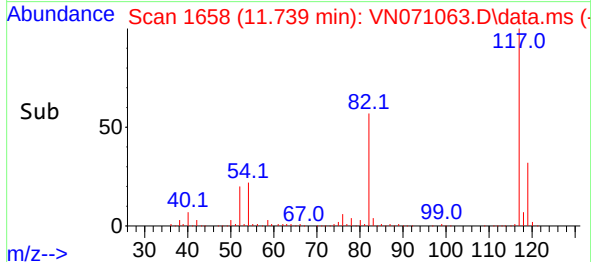
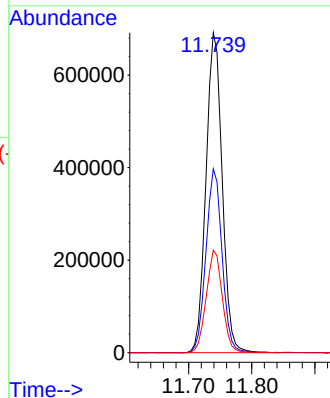
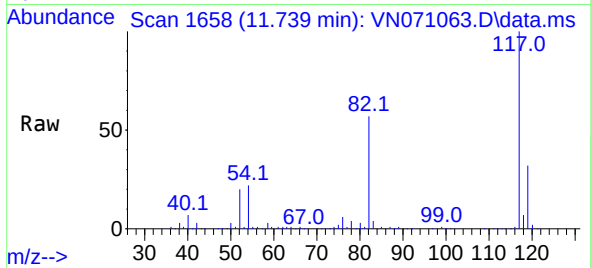




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

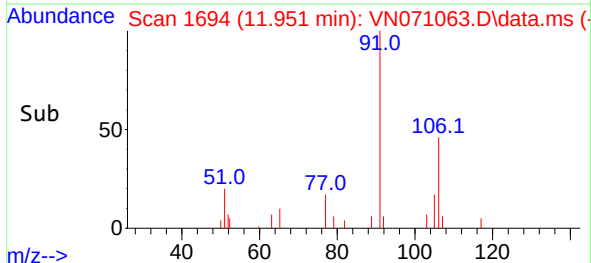
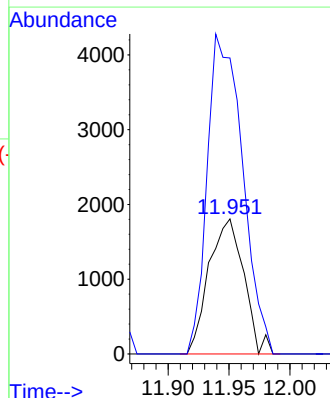
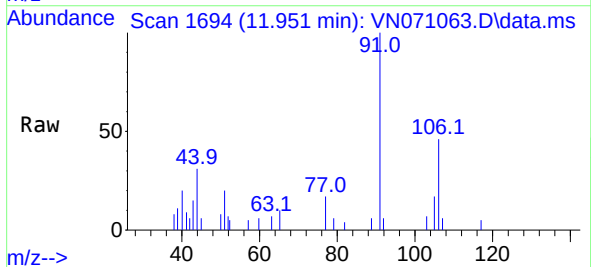
Instrument :
MSVOA_N
ClientSampleId :
SW-SURFICIAL-SOIL-(SW-SS)

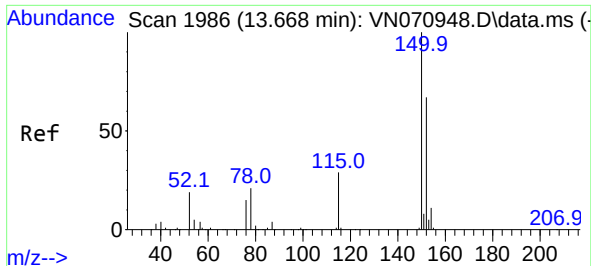
Tgt Ion:117 Resp: 1234174
Ion Ratio Lower Upper
117 100
82 57.4 42.4 63.6
119 32.0 25.4 38.2



#68
m/p-Xylenes
Concen: 0.201 ug/l
RT: 11.951 min Scan# 1694
Delta R.T. 0.006 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion:106 Resp: 3608
Ion Ratio Lower Upper
106 100
91 239.0 160.6 240.8

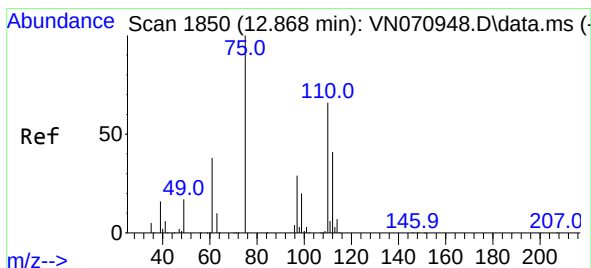
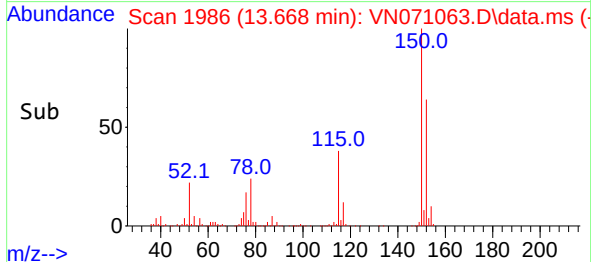
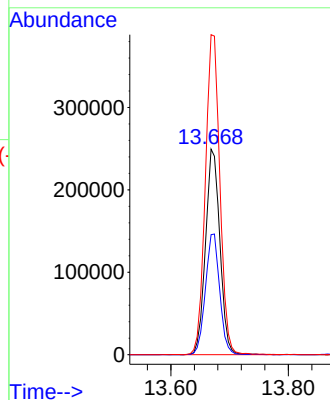
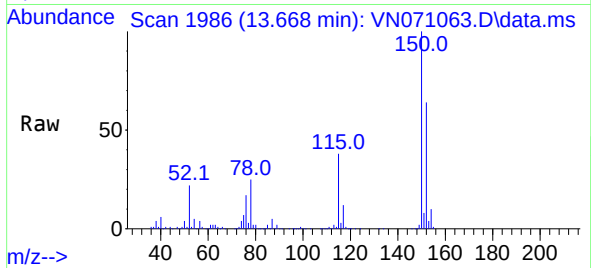




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. -0.000 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

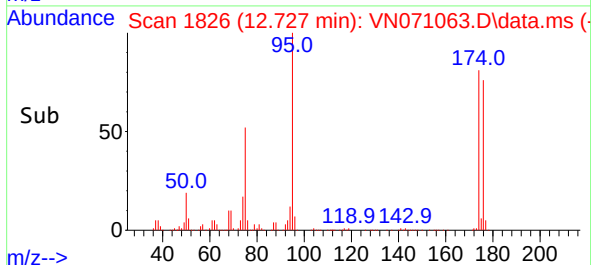
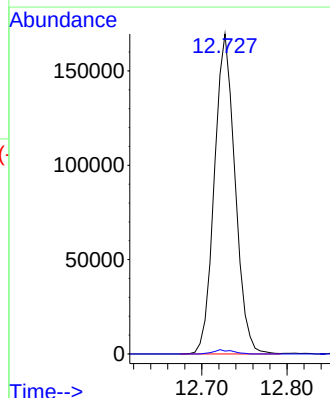
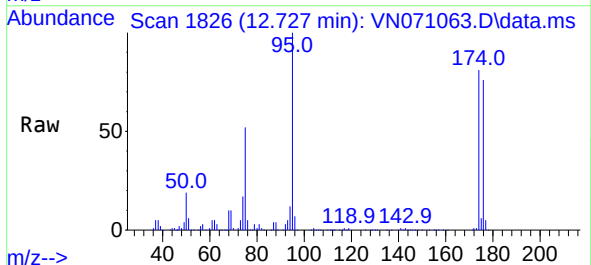
Instrument :
MSVOA_N
ClientSampleId :
SW-SURFICIAL-SOIL-(SW-SS)

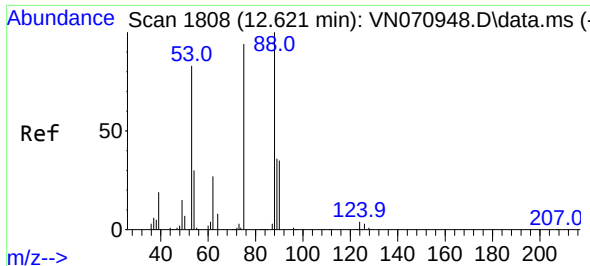
Tgt Ion:152 Resp: 422390
Ion Ratio Lower Upper
152 100
115 58.4 27.5 82.5
150 157.8 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 28.766 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion: 75 Resp: 286088
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#

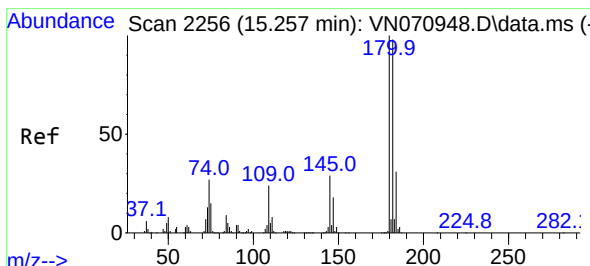
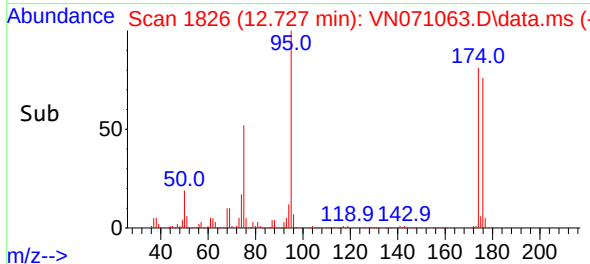
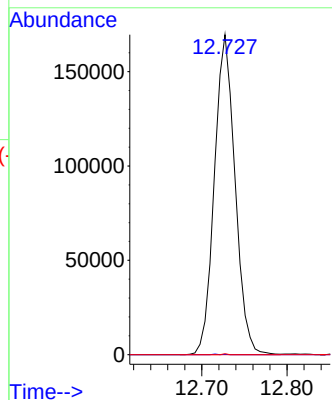
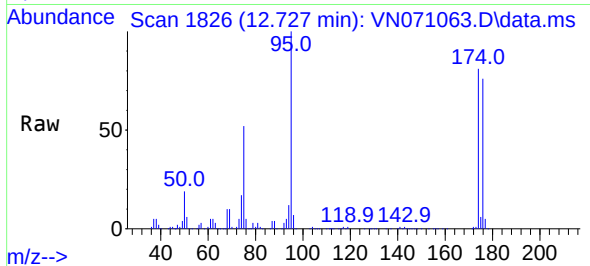




#81
trans-1,4-Dichloro-2-butene
Concen: 93.216 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

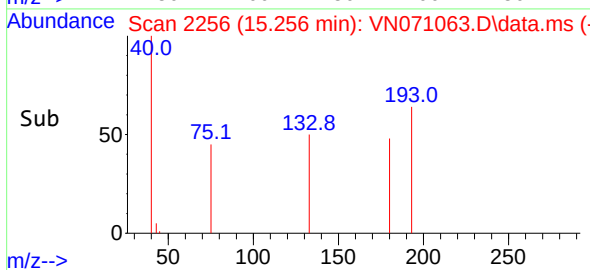
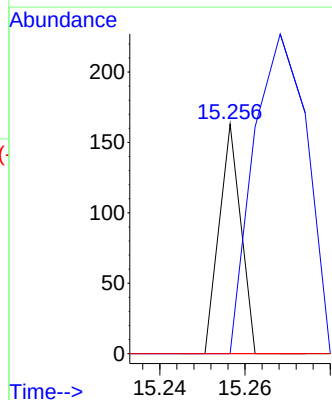
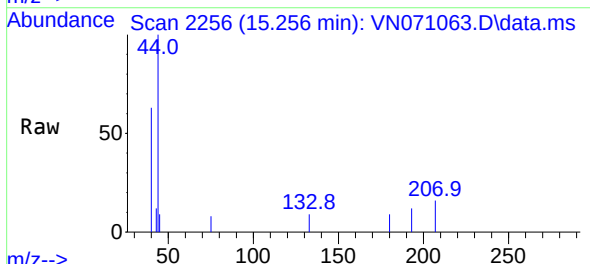
Instrument :
MSVOA_N
ClientSampleId :
SW-SURFICIAL-SOIL-(SW-SS)

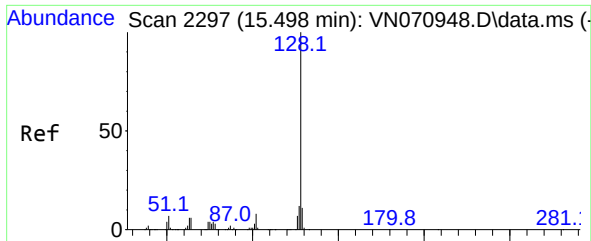
Tgt Ion: 75 Resp: 286088
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.1 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.006 ug/l
RT: 15.256 min Scan# 2256
Delta R.T. -0.001 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Tgt Ion:180 Resp: 58
Ion Ratio Lower Upper
180 100
182 339.7 48.3 144.9#
145 0.0 14.5 43.5#





#95
Naphthalene
Concen: 5.056 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071063.D
Acq: 24 Feb 2022 18:20

Instrument :
MSVOA_N
ClientSampleId :
SW-SURFICIAL-SOIL-(SW-SS)

Tgt Ion:128 Resp: 1396
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#

