

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032823\
 Data File : VN077240.D
 Acq On : 28 Mar 2023 16:30
 Operator : JC\MD
 Sample : 02105-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WV-SOIL3-0327

Quant Time: Mar 29 01:16:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032523W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 27 02:47:06 2023
 Response via : Initial Calibration

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

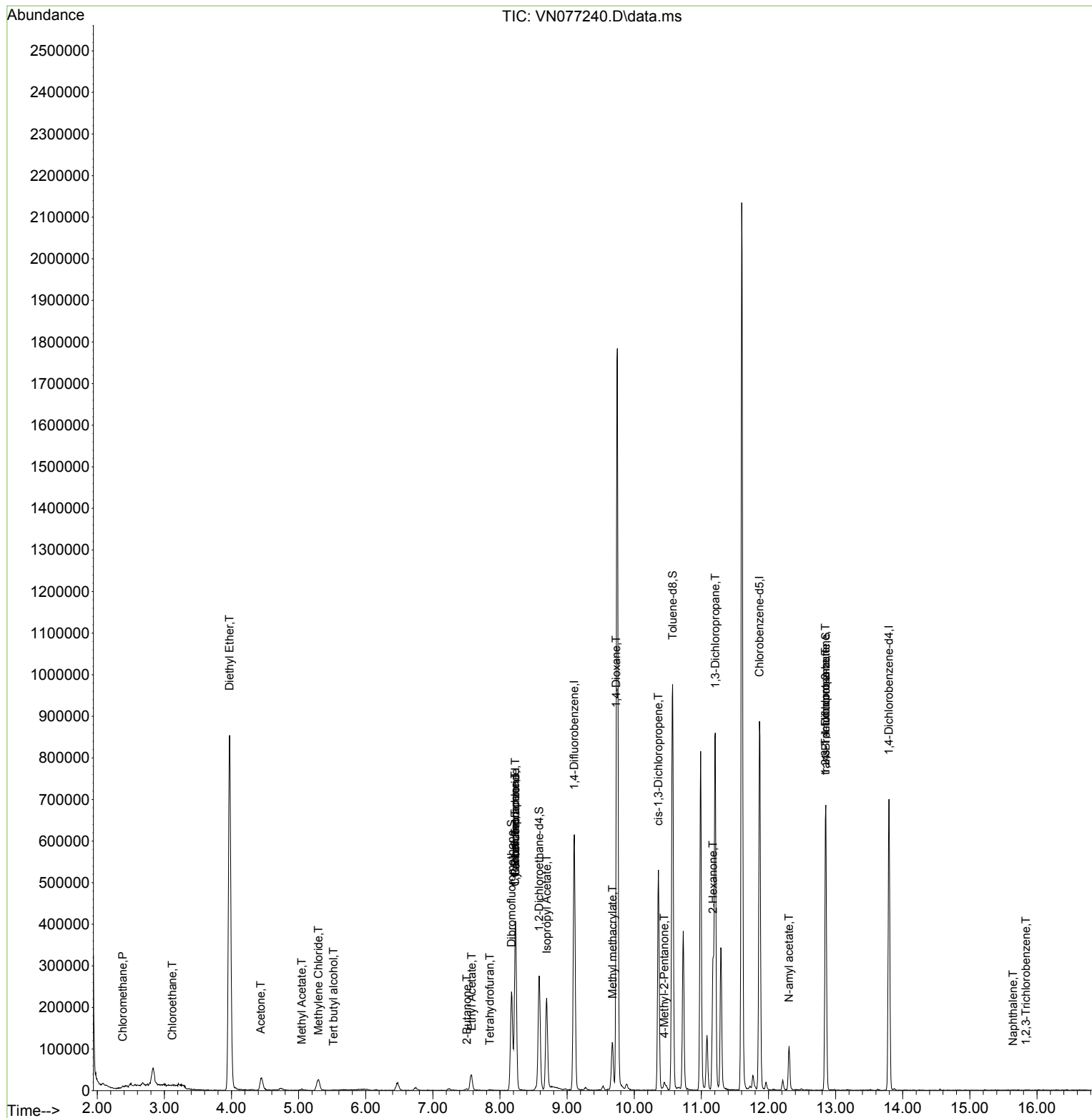
Internal Standards						
1) Pentafluorobenzene	8.230	168	280101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	485623	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	456786	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	169374	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	216910	49.528	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.060%		
35) Dibromofluoromethane	8.172	113	157171	47.697	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.400%		
50) Toluene-d8	10.572	98	642402	52.028	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	104.060%		
62) 4-Bromofluorobenzene	12.854	95	210588	51.968	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.940%		
Target Compounds						Qvalue
3) Chloromethane	2.378	50	1141	0.278	ug/l #	82
6) Chloroethane	3.119	64	824	0.205	ug/l	94
8) Diethyl Ether	3.972	74	482974	206.685	ug/l	60
11) Tert butyl alcohol	5.519	59	600	1.005	ug/l #	72
16) Acetone	4.437	43	59444	36.505	ug/l #	82
18) Methyl Acetate	5.048	43	5811	0.892	ug/l #	78
20) Methylene Chloride	5.295	84	19332	5.331	ug/l #	66
25) 2-Butanone	7.507	43	5257	2.065	ug/l #	55
29) Tetrahydrofuran	7.848	42	483	0.286	ug/l #	54
31) Cyclohexane	8.225	56	8722	1.434	ug/l #	53
36) 1,1-Dichloropropene	8.225	75	26102	5.691	ug/l #	48
37) Ethyl Acetate	7.578	43	59632	11.665	ug/l #	89
38) Carbon Tetrachloride	8.230	117	31223	6.715	ug/l #	16
43) Isopropyl Acetate	8.695	43	251508	30.497	ug/l #	76
48) Methyl methacrylate	9.677	41	8164	2.056	ug/l #	30
49) 1,4-Dioxane	9.730	88	123	1.817	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	22068	4.253	ug/l #	63
54) cis-1,3-Dichloropropene	10.360	75	77215	14.310	ug/l #	62
57) 1,3-Dichloropropane	11.207	76	8466	1.411	ug/l #	42
59) 2-Hexanone	11.171	43	270255	72.470	ug/l #	17
74) N-amyl acetate	12.307	43	38868	6.693	ug/l #	41
76) 1,2,3-Trichloropropane	12.848	75	125790	36.611	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	125790	105.517	ug/l #	15
95) Naphthalene	15.642	128	627	5.976	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.836	180	157	4.702	ug/l #	12

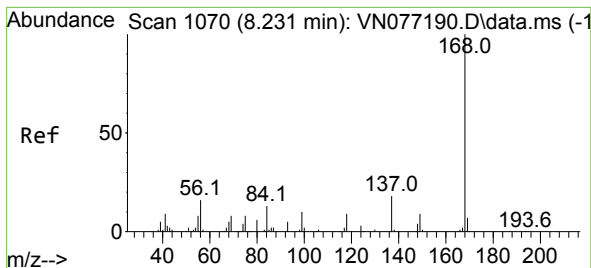
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 11

Delta R.T. -0.001 min

Lab File: VN077240.D

Acq: 28 Mar 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

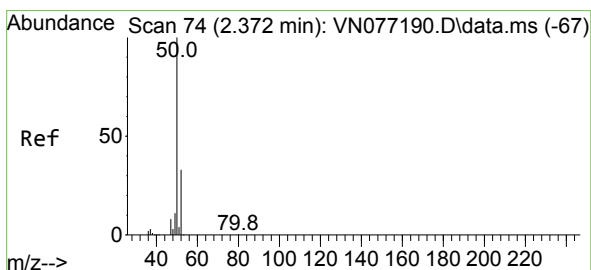
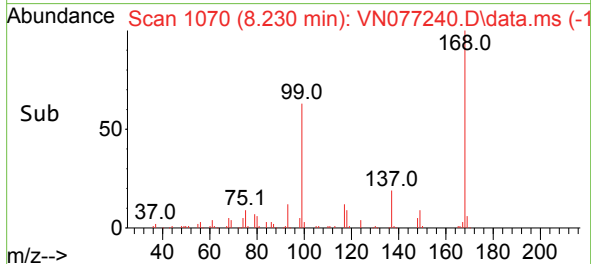
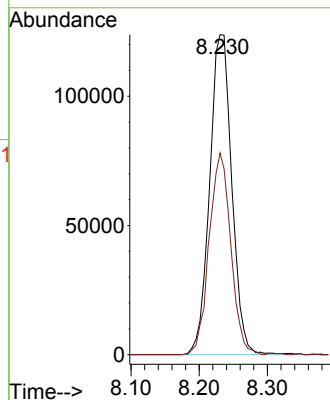
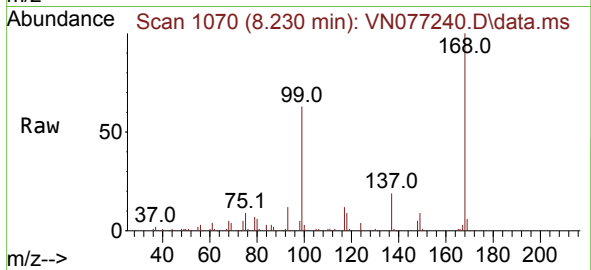
WV-SOIL3-0327

Tgt Ion:168 Resp: 280101

Ion Ratio Lower Upper

168 100

99 63.0 48.6 73.0



#3

Chloromethane

Concen: 0.278 ug/l

RT: 2.378 min Scan# 75

Delta R.T. 0.006 min

Lab File: VN077240.D

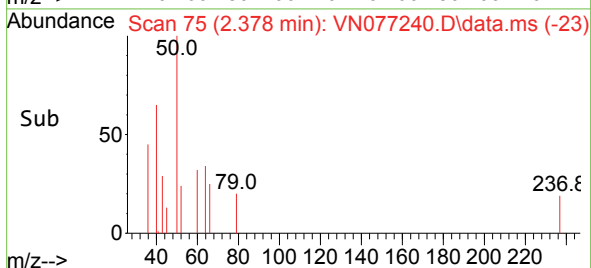
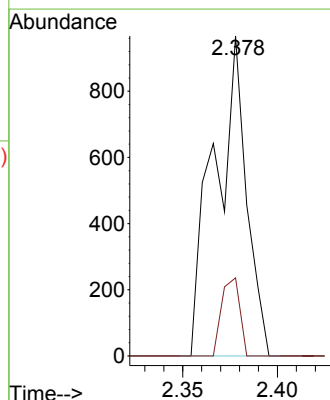
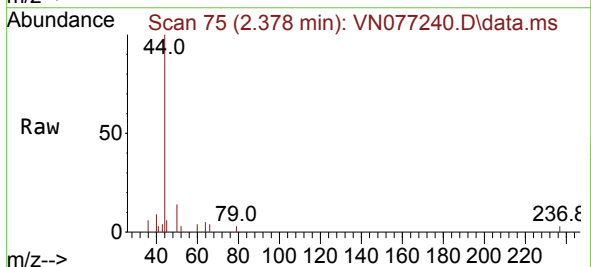
Acq: 28 Mar 2023 16:30

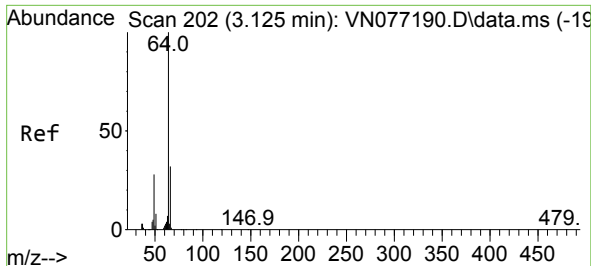
Tgt Ion: 50 Resp: 1141

Ion Ratio Lower Upper

50 100

52 24.4 27.9 41.9#

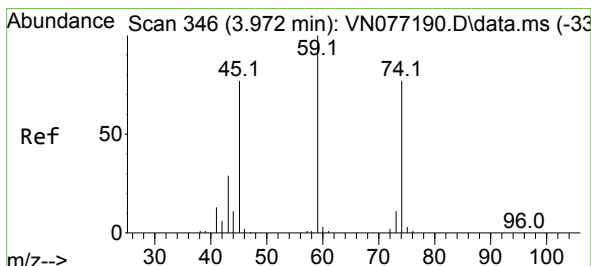
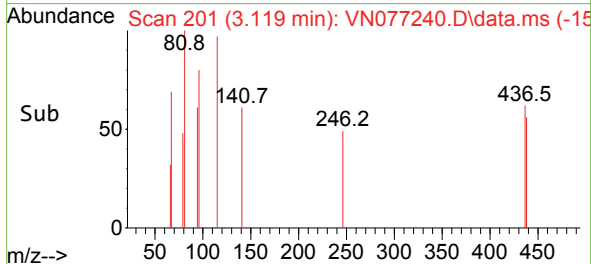
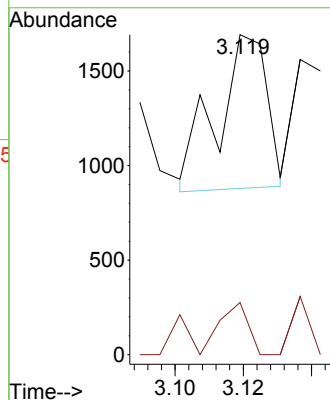
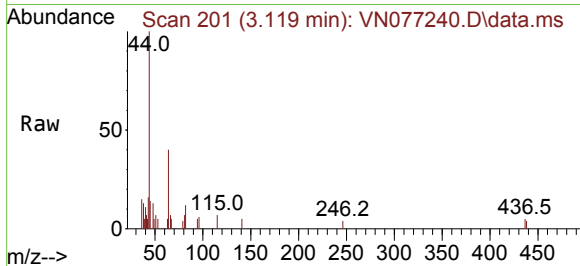




#6
Chloroethane
Concen: 0.205 ug/l
RT: 3.119 min Scan# 202
Delta R.T. -0.006 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

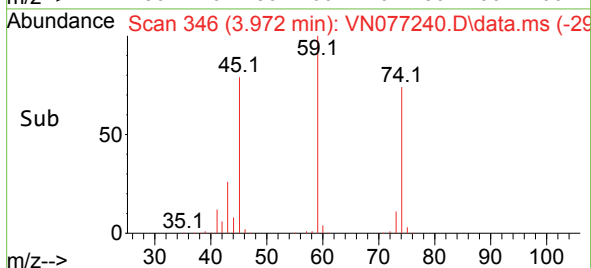
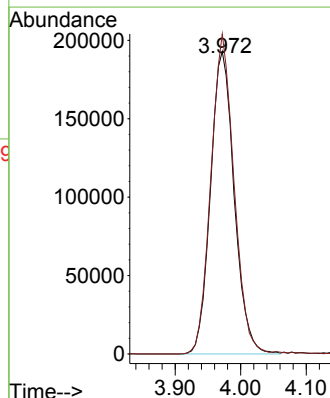
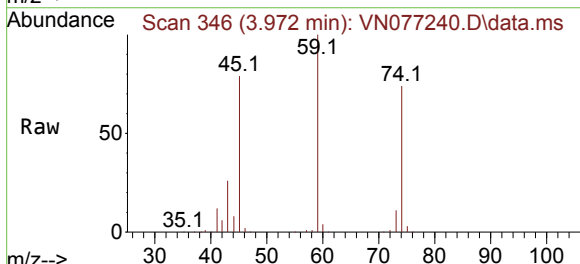
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

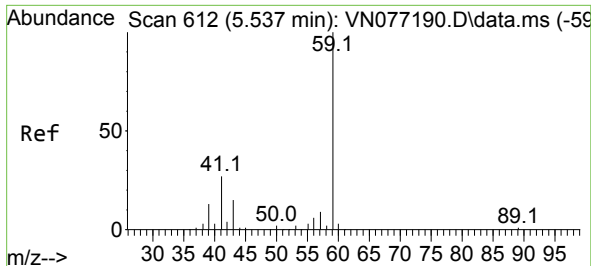
Tgt Ion: 64 Resp: 824
Ion Ratio Lower Upper
64 100
66 36.1 26.2 39.4



#8
Diethyl Ether
Concen: 206.685 ug/l
RT: 3.972 min Scan# 346
Delta R.T. -0.000 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 74 Resp: 482974
Ion Ratio Lower Upper
74 100
45 103.8 35.5 106.5

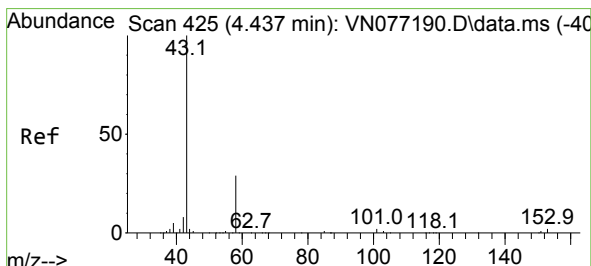
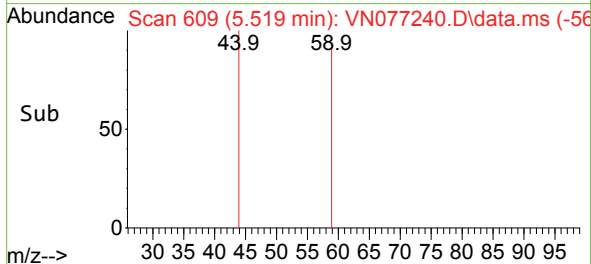
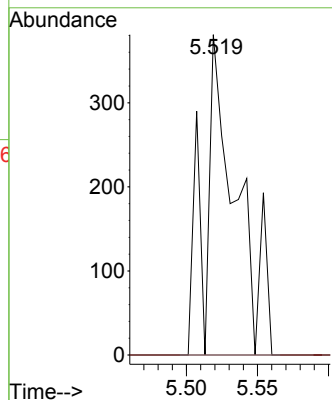
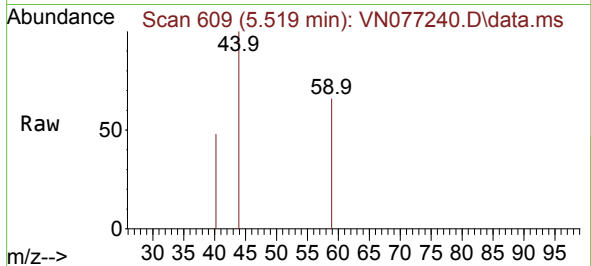




#11
Tert butyl alcohol
Concen: 1.005 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

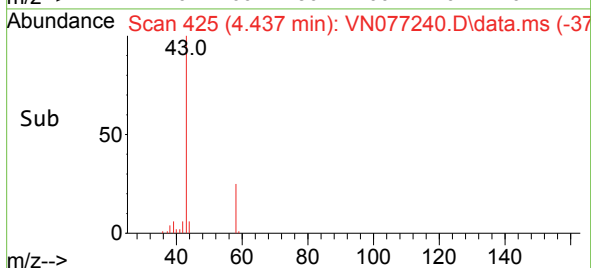
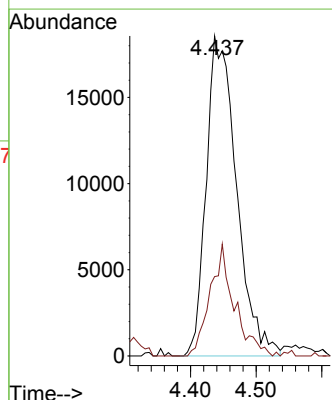
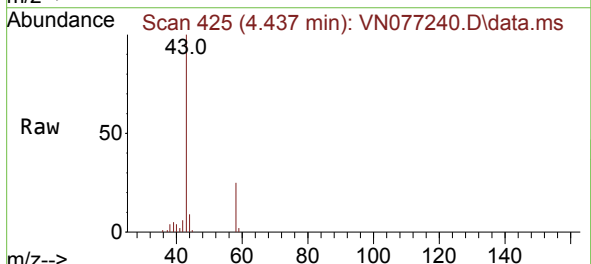
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

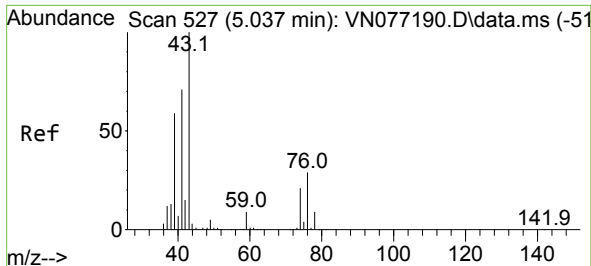
Tgt Ion: 59 Resp: 600
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 36.505 ug/l
RT: 4.437 min Scan# 425
Delta R.T. -0.000 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 43 Resp: 59444
Ion Ratio Lower Upper
43 100
58 24.8 28.2 42.2#

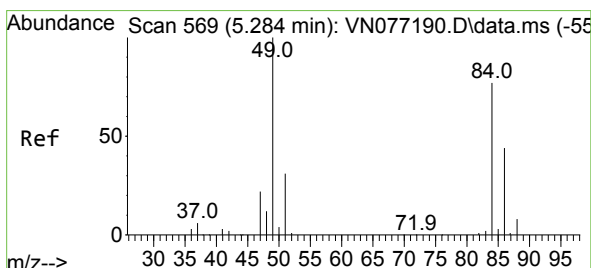
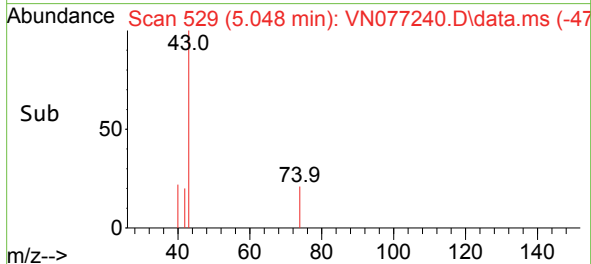
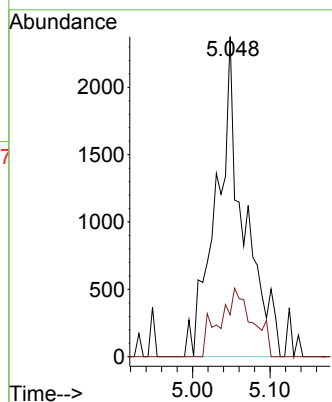
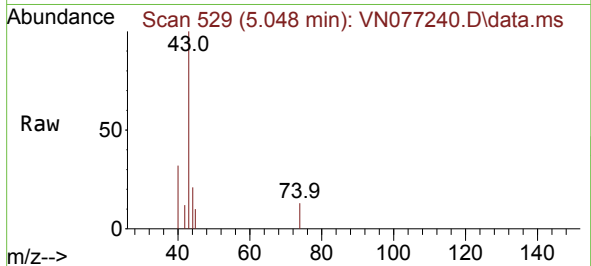




#18
Methyl Acetate
Concen: 0.892 ug/l
RT: 5.048 min Scan# 511
Delta R.T. 0.011 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

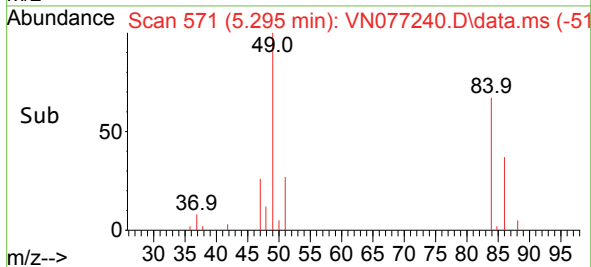
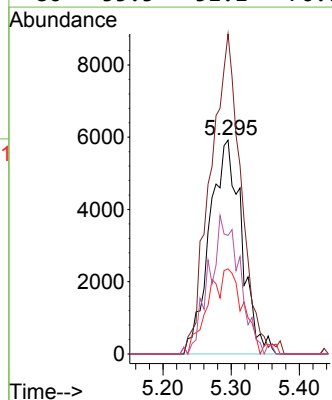
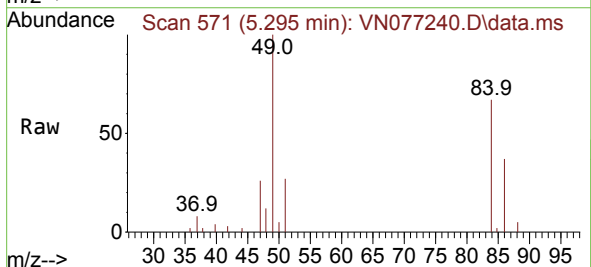
Instrument :
MSVOA_N
ClientSampleId :
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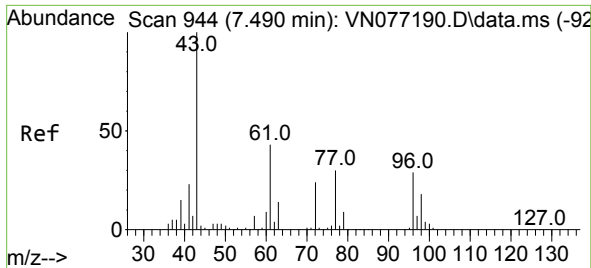
Tgt Ion: 43 Resp: 5811
Ion Ratio Lower Upper
43 100
74 19.8 25.9 38.9#



#20
Methylene Chloride
Concen: 5.331 ug/l
RT: 5.295 min Scan# 571
Delta R.T. 0.011 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 84 Resp: 19332
Ion Ratio Lower Upper
84 100
49 149.6 76.6 114.8#
51 39.8 25.4 38.2#
86 55.5 51.1 76.7

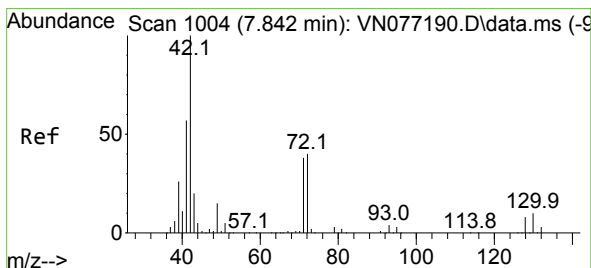
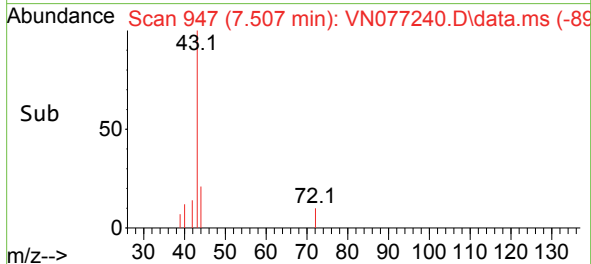
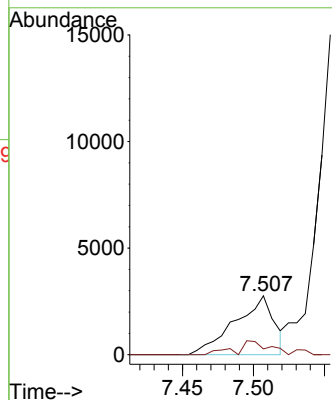
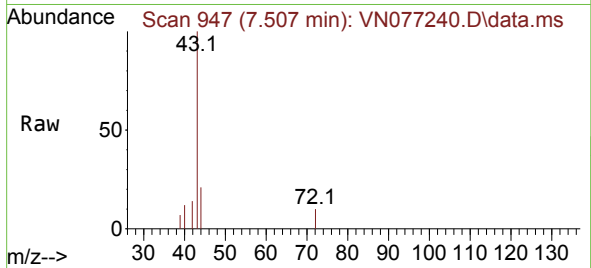




#25
2-Butanone
Concen: 2.065 ug/l
RT: 7.507 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

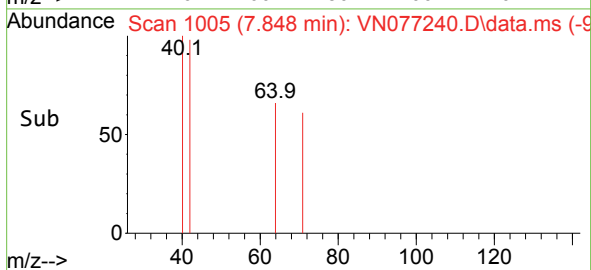
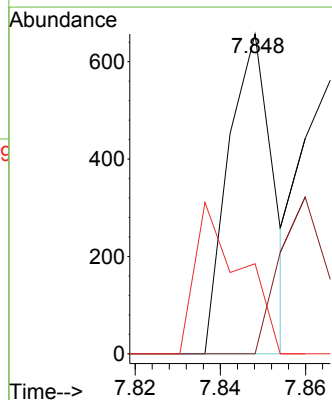
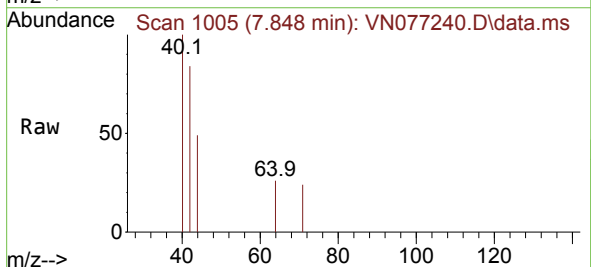
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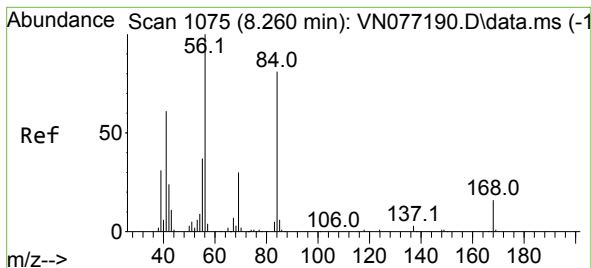
Tgt Ion: 43 Resp: 5257
Ion Ratio Lower Upper
43 100
72 9.7 28.8 43.2#



#29
Tetrahydrofuran
Concen: 0.286 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 42 Resp: 483
Ion Ratio Lower Upper
42 100
72 74.3 48.6 73.0#
71 0.0 45.1 67.7#





#31

Cyclohexane

Concen: 1.434 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.035 min

Lab File: VN077240.D

Acq: 28 Mar 2023 16:30

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MSVOA_N

ClientSampleId :

WV-SOIL3-0327

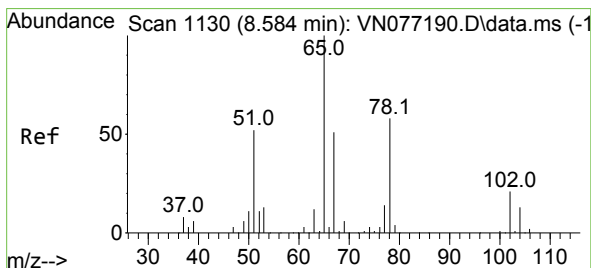
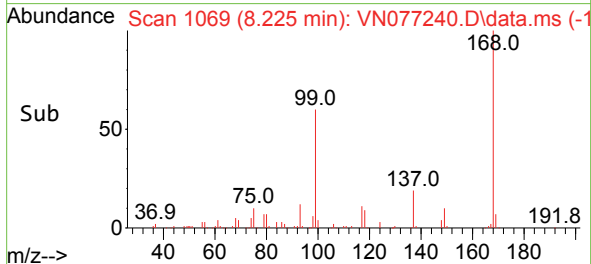
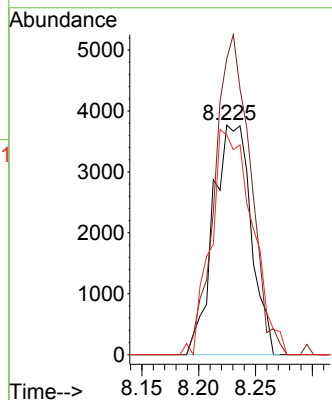
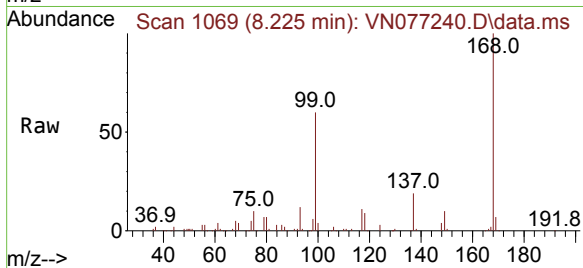
Tgt Ion: 56 Resp: 8722

Ion Ratio Lower Upper

56 100

69 128.9 27.0 40.6#

84 95.6 82.9 124.3



#33

1,2-Dichloroethane-d4

Concen: 49.528 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN077240.D

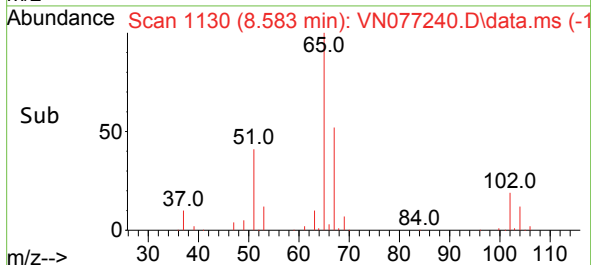
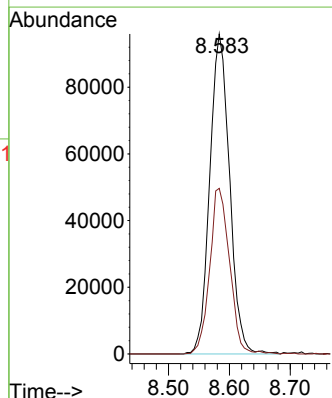
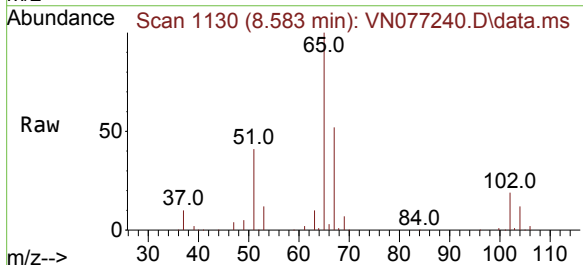
Acq: 28 Mar 2023 16:30

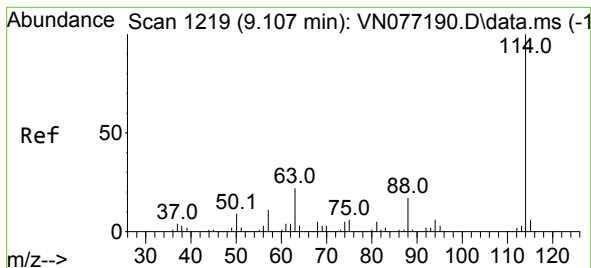
Tgt Ion: 65 Resp: 216910

Ion Ratio Lower Upper

65 100

67 51.6 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077240.D

Acq: 28 Mar 2023 16:30

Instrument :

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ClientSampleId :

WV-SOIL3-0327

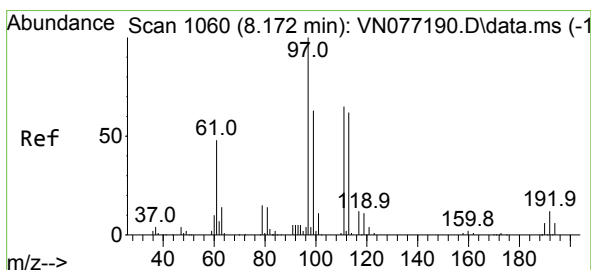
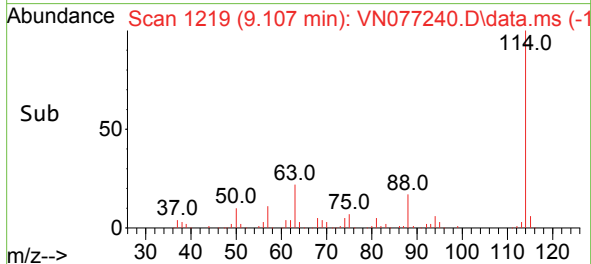
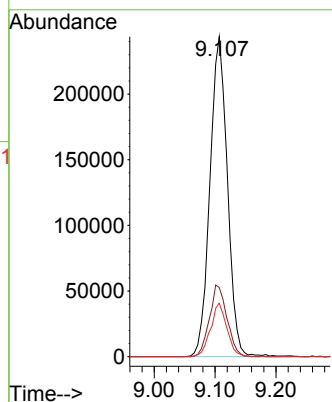
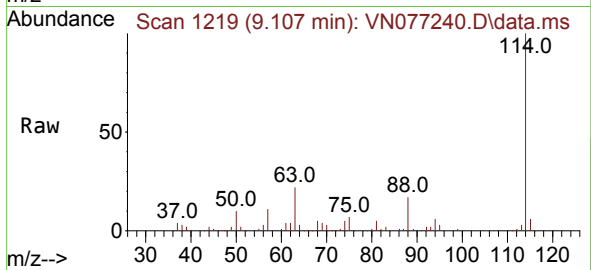
Tgt Ion:114 Resp: 485623

Ion Ratio Lower Upper

114 100

63 21.6 0.0 36.6

88 16.7 0.0 28.6



#35

Dibromofluoromethane

Concen: 47.697 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077240.D

Acq: 28 Mar 2023 16:30

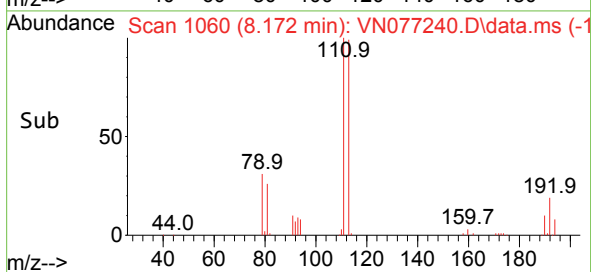
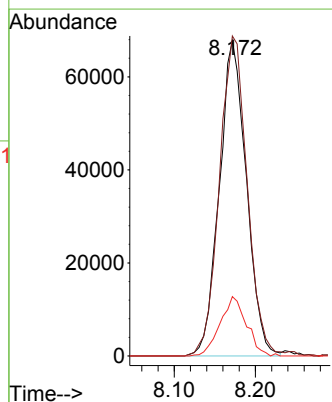
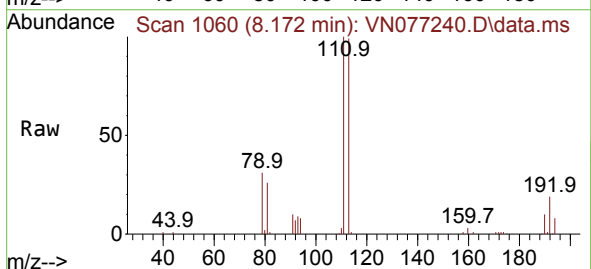
Tgt Ion:113 Resp: 157171

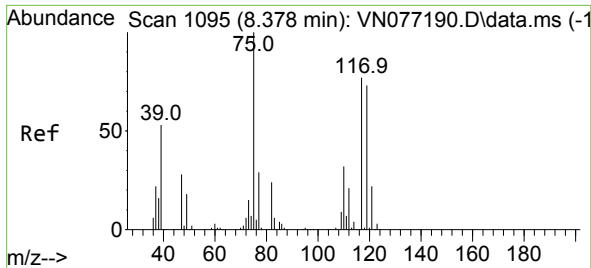
Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.8

192 18.3 13.9 20.9

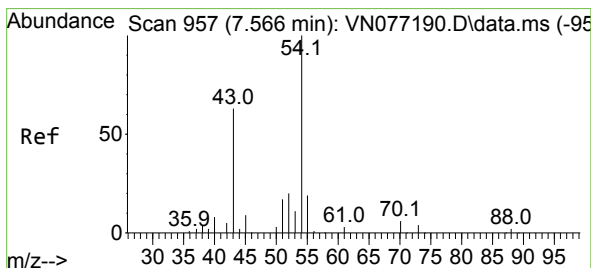
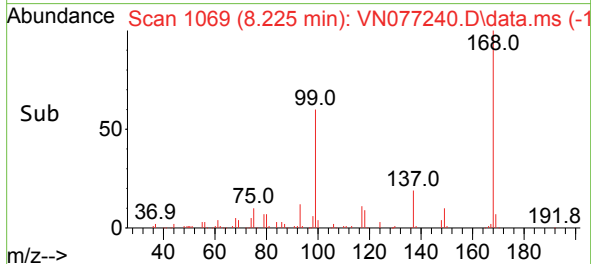
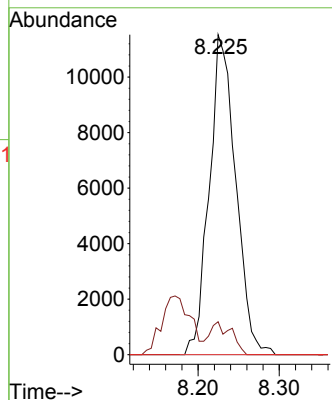
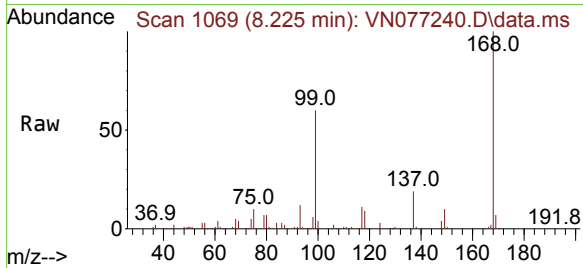




#36
1,1-Dichloropropene
Concen: 5.691 ug/l
RT: 8.225 min Scan# 1095
Delta R.T. -0.153 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

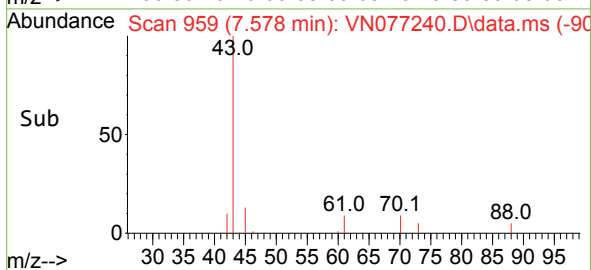
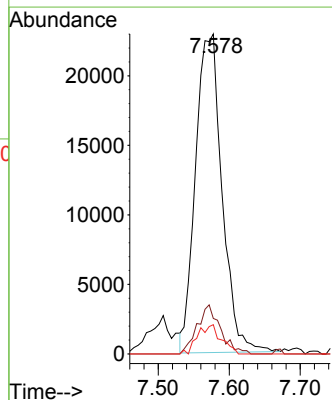
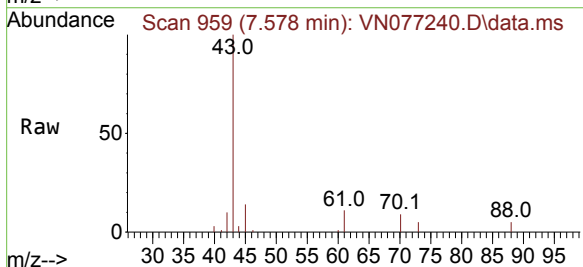
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

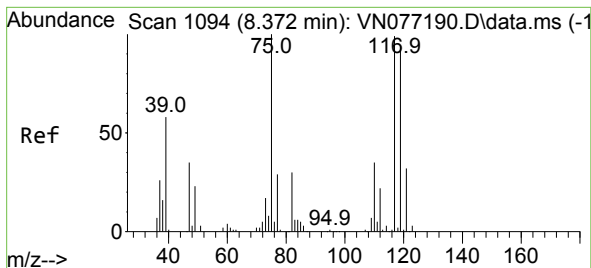
Tgt Ion: 75 Resp: 26102
Ion Ratio Lower Upper
75 100
110 8.3 18.9 56.9#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 11.665 ug/l
RT: 7.578 min Scan# 959
Delta R.T. 0.012 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 43 Resp: 59632
Ion Ratio Lower Upper
43 100
61 13.6 13.5 20.3
70 8.1 11.0 16.6#





#38

Carbon Tetrachloride

Concen: 6.715 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.142 min

Lab File: VN077240.D

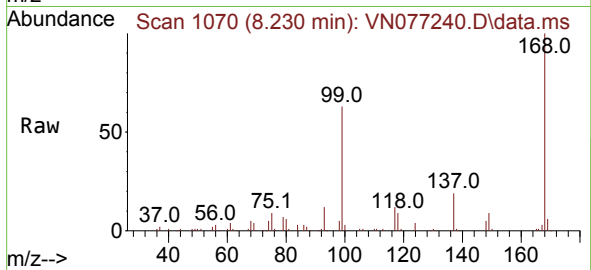
Acq: 28 Mar 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

WV-SOIL3-0327



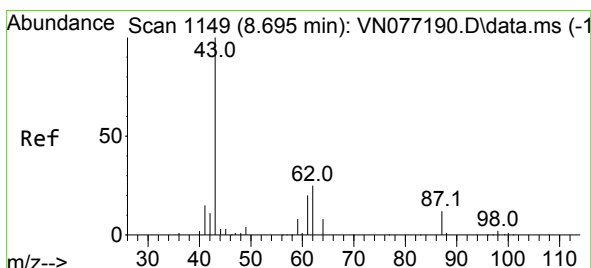
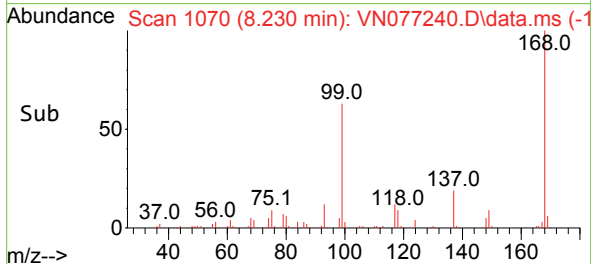
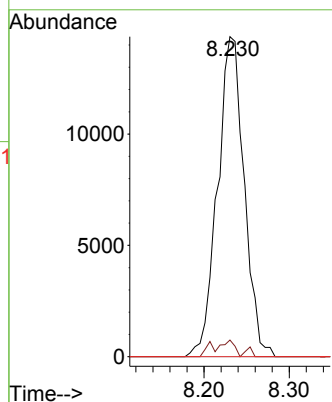
Tgt Ion:117 Resp: 31223

Ion Ratio Lower Upper

117 100

119 5.2 76.9 115.3#

121 0.0 23.2 34.8#



#43

Isopropyl Acetate

Concen: 30.497 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN077240.D

Acq: 28 Mar 2023 16:30

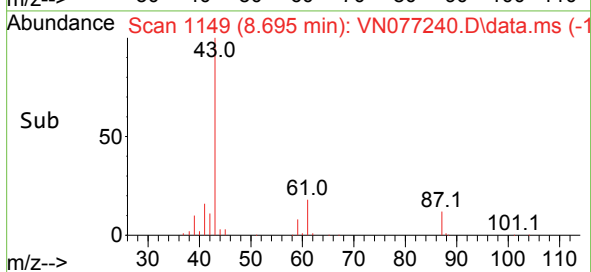
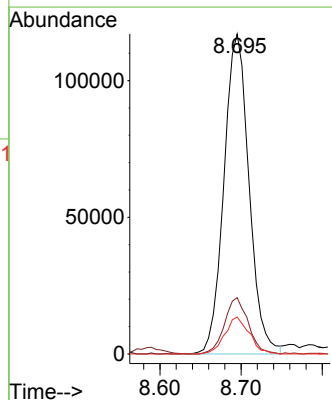
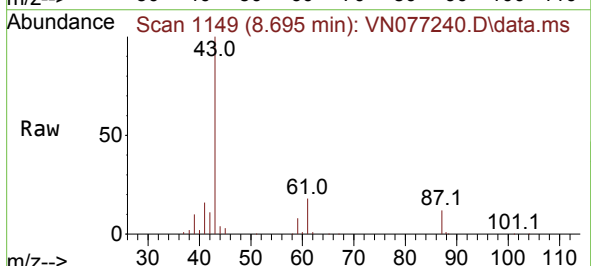
Tgt Ion: 43 Resp: 251508

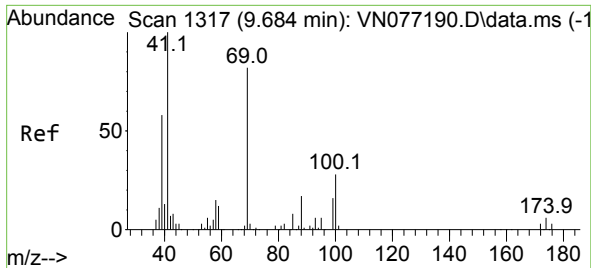
Ion Ratio Lower Upper

43 100

61 16.6 26.2 39.2#

87 11.2 14.8 22.2#

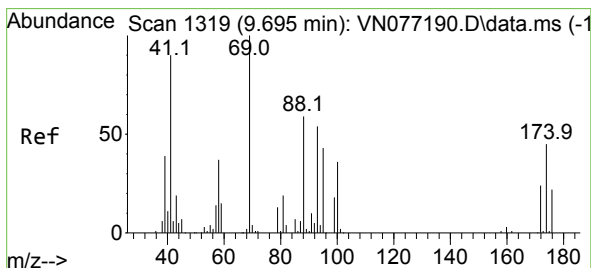
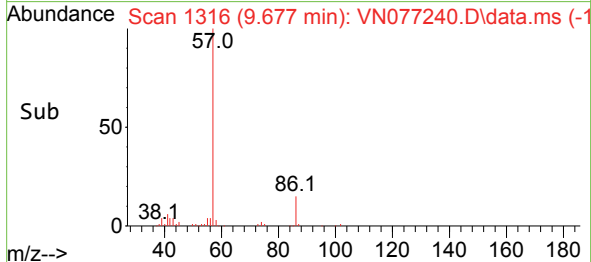
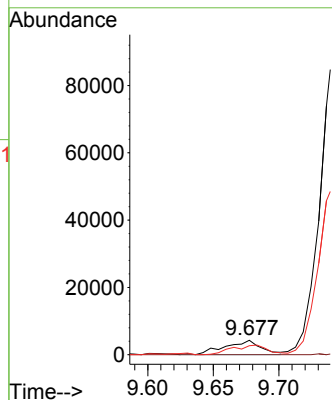
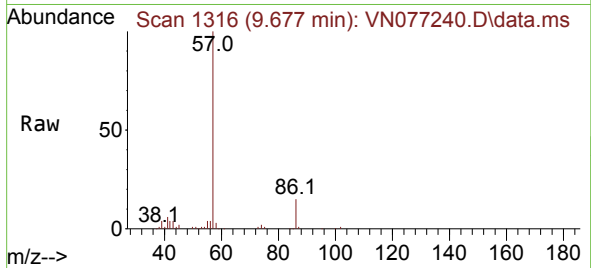




#48
Methyl methacrylate
Concen: 2.056 ug/l
RT: 9.677 min Scan# 1316
Delta R.T. -0.007 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

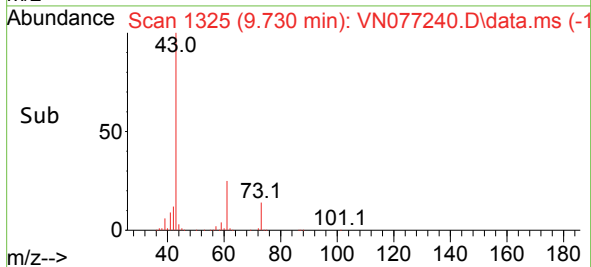
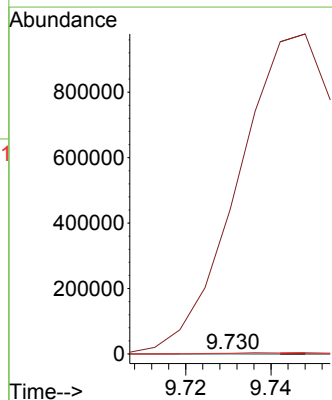
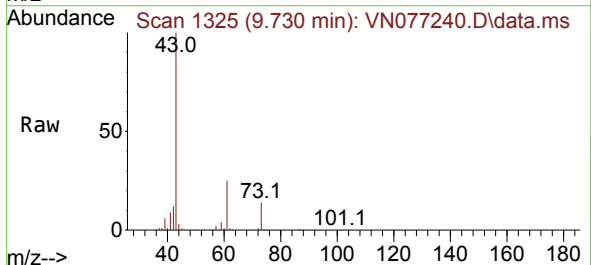
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

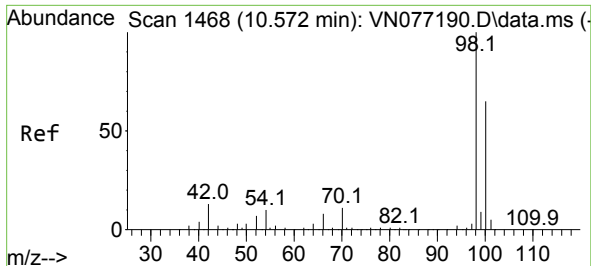
Tgt Ion: 41 Resp: 8164
Ion Ratio Lower Upper
41 100
69 0.0 92.6 139.0#
39 66.6 51.4 77.0



#49
1,4-Dioxane
Concen: 1.817 ug/l
RT: 9.730 min Scan# 1325
Delta R.T. 0.035 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 88 Resp: 123
Ion Ratio Lower Upper
88 100
43 1453113.0 15.3 22.9#
58 6141.5 47.6 71.4#

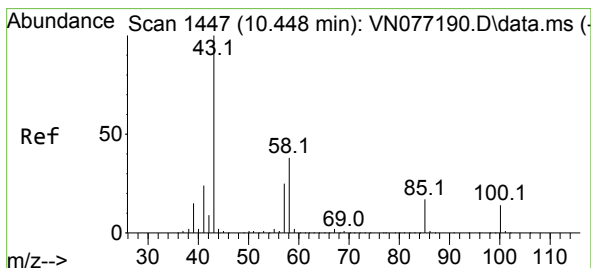
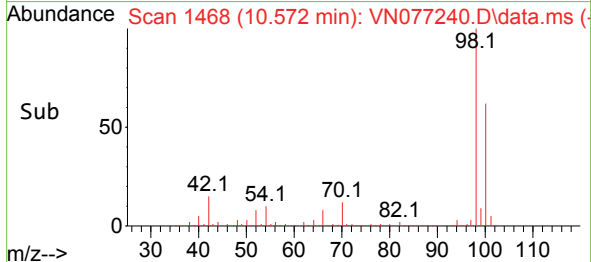
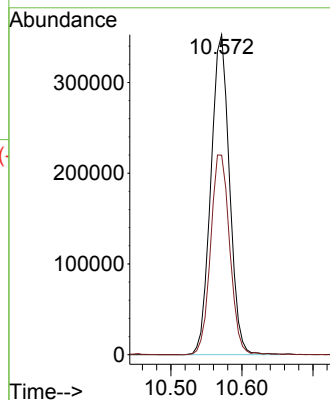
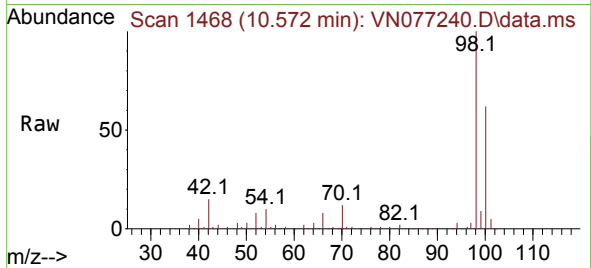




#50
Toluene-d8
Concen: 52.028 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

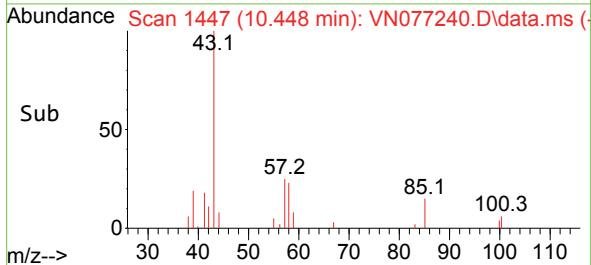
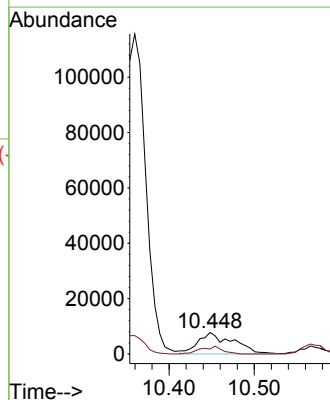
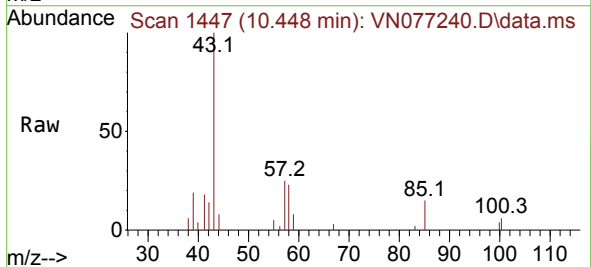
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

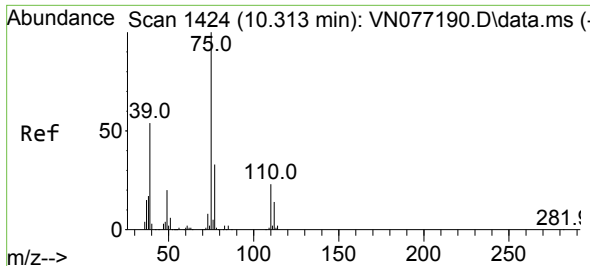
Tgt Ion: 98 Resp: 642402
Ion Ratio Lower Upper
98 100
100 64.2 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 4.253 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 43 Resp: 22068
Ion Ratio Lower Upper
43 100
58 22.2 37.4 56.0#

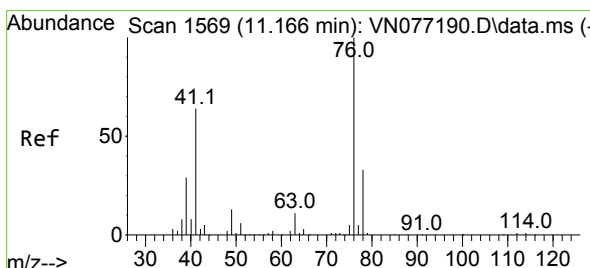
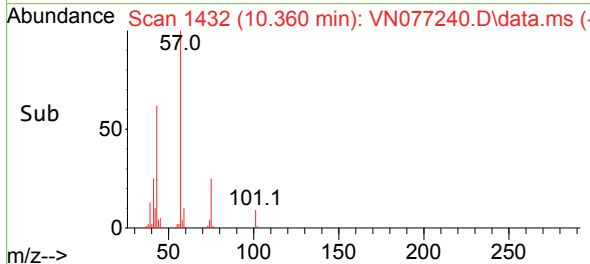
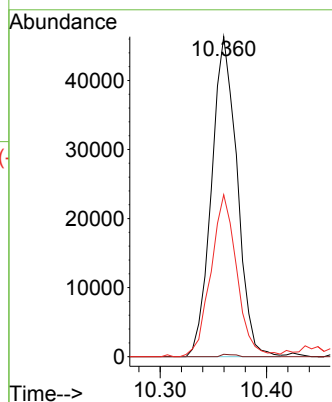
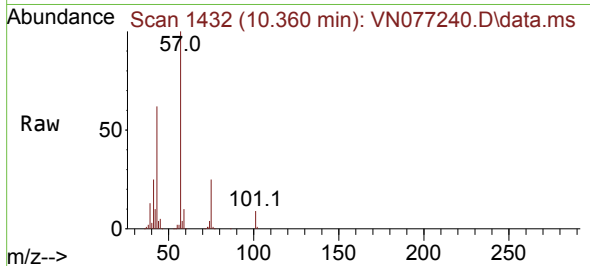




#54
cis-1,3-Dichloropropene
Concen: 14.310 ug/l
RT: 10.360 min Scan# 1424
Delta R.T. 0.047 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

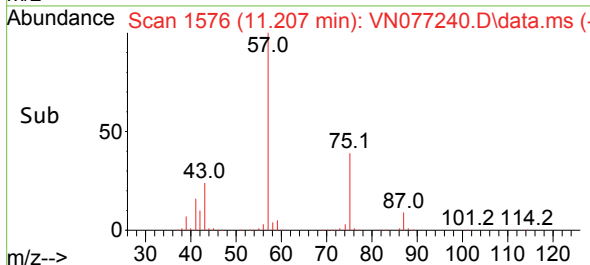
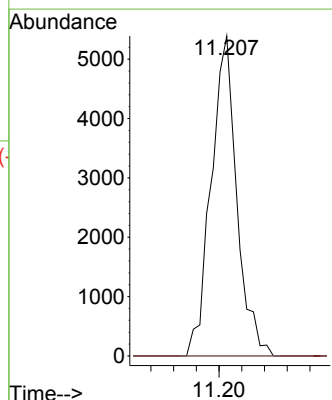
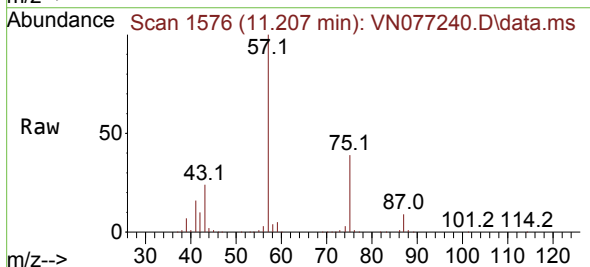
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

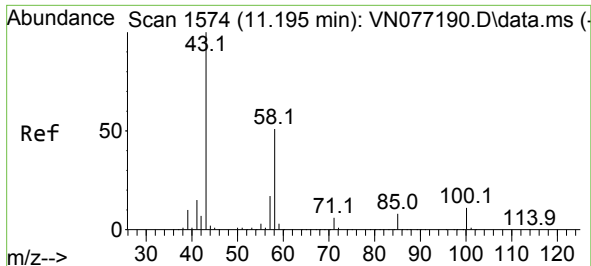
Tgt Ion: 75 Resp: 77215
Ion Ratio Lower Upper
75 100
77 0.8 25.7 38.5#
39 50.6 29.7 44.5#



#57
1,3-Dichloropropane
Concen: 1.411 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 76 Resp: 8466
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

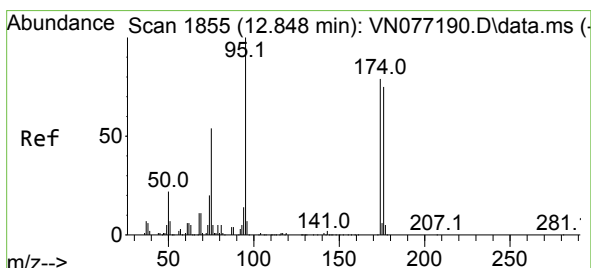
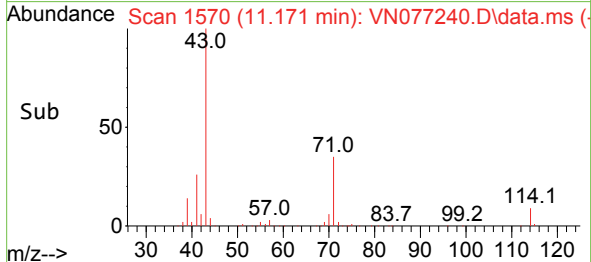
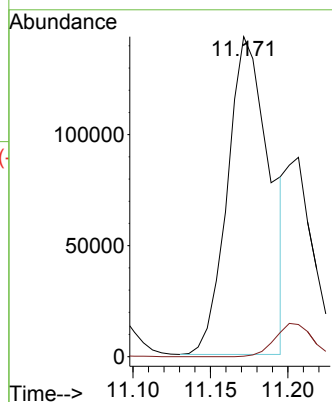
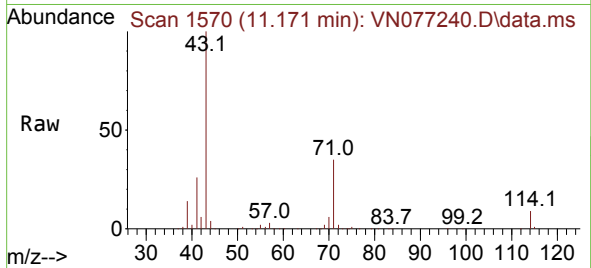




#59
2-Hexanone
Concen: 72.470 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

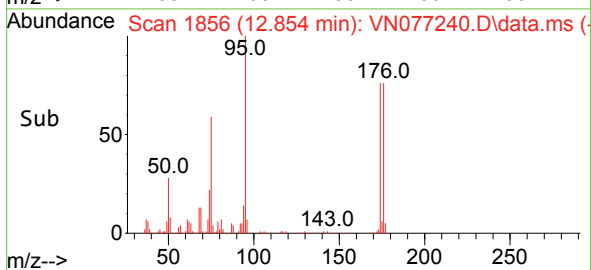
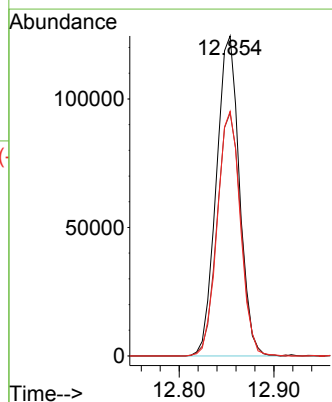
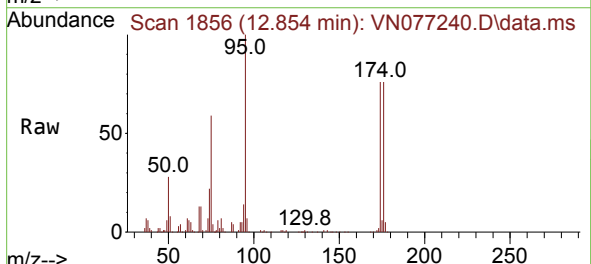
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

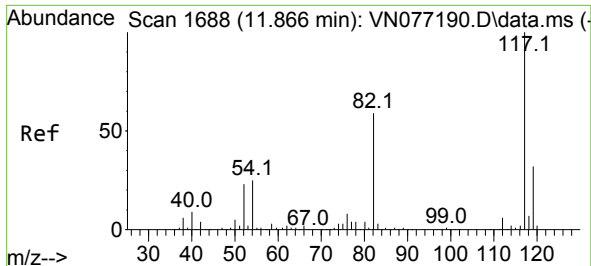
Tgt Ion: 43 Resp: 270255
Ion Ratio Lower Upper
43 100
58 0.0 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 51.968 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion: 95 Resp: 210588
Ion Ratio Lower Upper
95 100
174 77.9 0.0 162.4
176 76.5 0.0 157.4

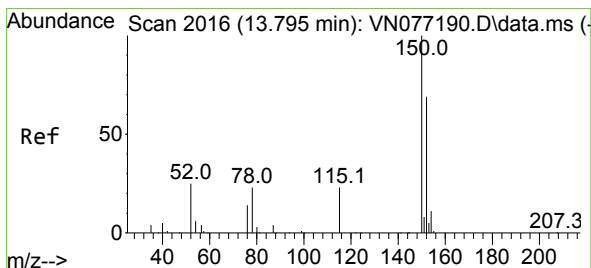
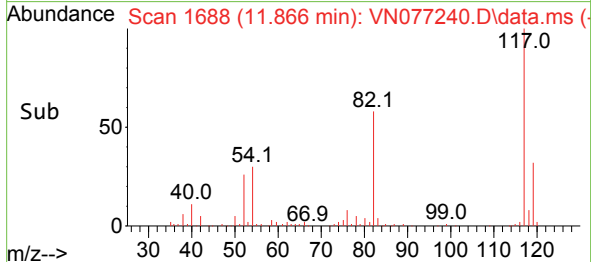
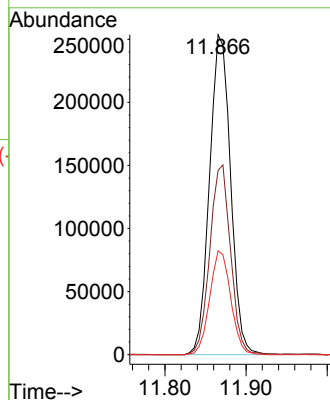
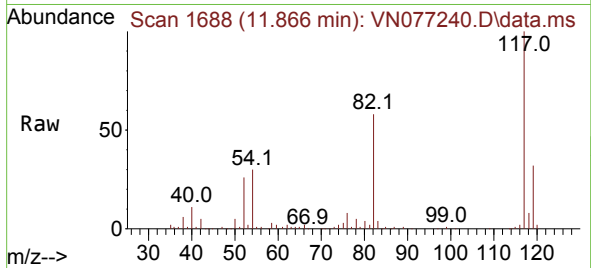




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

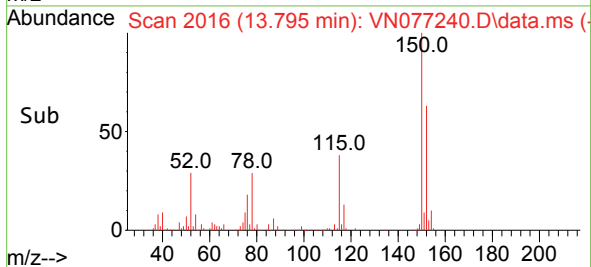
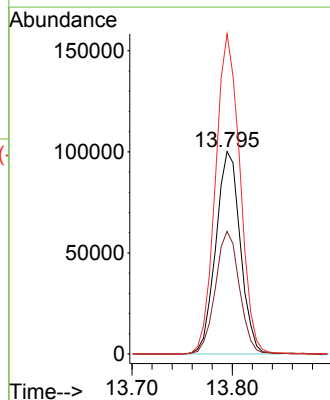
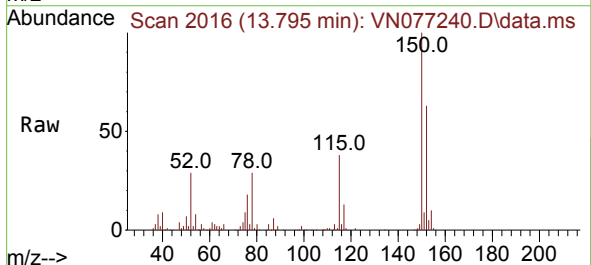
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

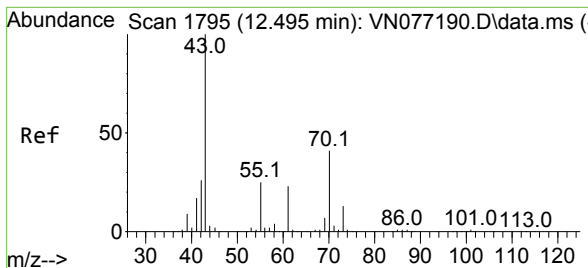
Tgt Ion:117 Resp: 456786
Ion Ratio Lower Upper
117 100
82 57.6 43.5 65.3
119 32.4 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

Tgt Ion:152 Resp: 169374
Ion Ratio Lower Upper
152 100
115 59.7 30.3 90.9
150 158.3 0.0 353.6





#74

N-amy1 acetate

Concen: 6.693 ug/l

RT: 12.307 min Scan# 1

Delta R.T. -0.188 min

Lab File: VN077240.D

Acq: 28 Mar 2023 16:30

Instrument :

MSVOA_N

ClientSampleId :

WV-SOIL3-0327

Tgt Ion: 43 Resp: 38868

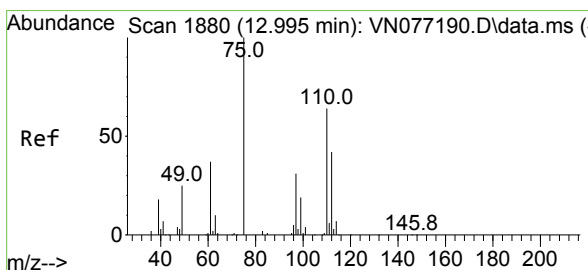
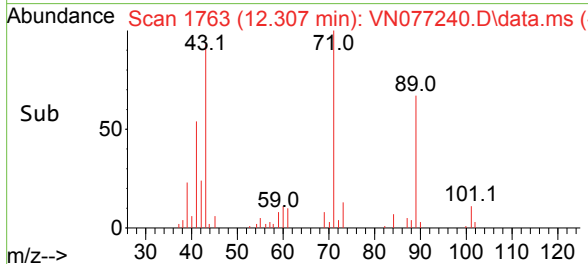
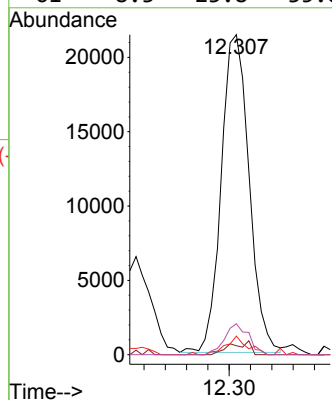
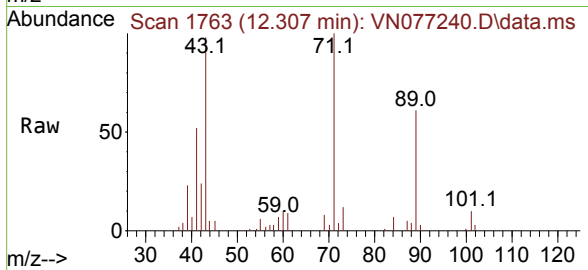
Ion Ratio Lower Upper

43 100

70 3.0 46.8 70.2#

55 4.5 23.4 35.2#

61 8.3 23.8 35.8#



#76

1,2,3-Trichloropropane

Concen: 36.611 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. -0.147 min

Lab File: VN077240.D

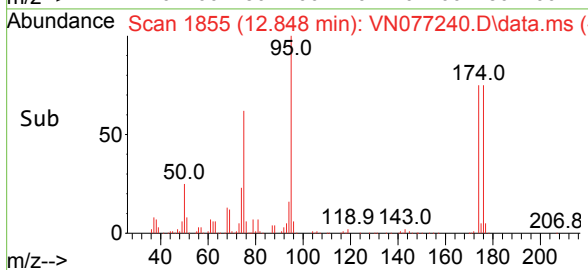
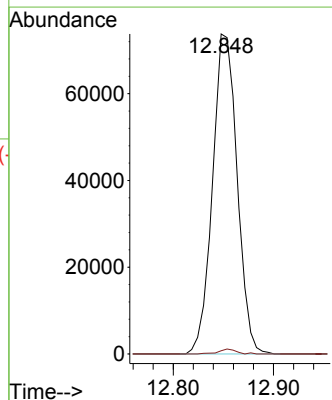
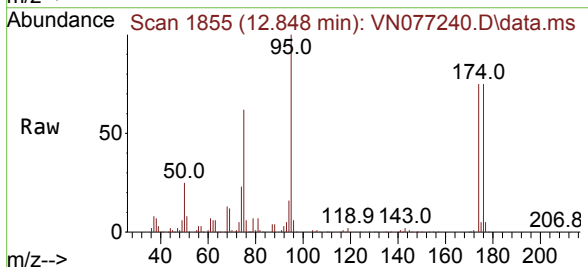
Acq: 28 Mar 2023 16:30

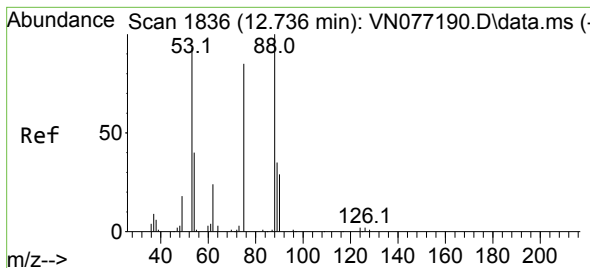
Tgt Ion: 75 Resp: 125790

Ion Ratio Lower Upper

75 100

77 1.1 93.8 281.4#

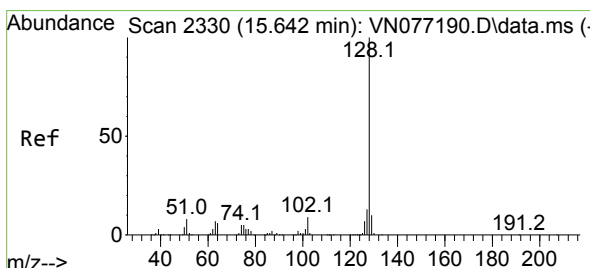
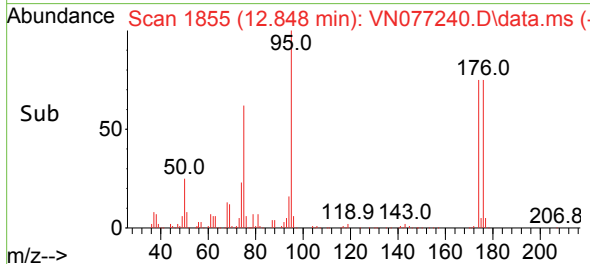
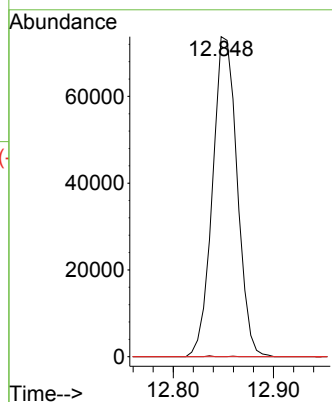
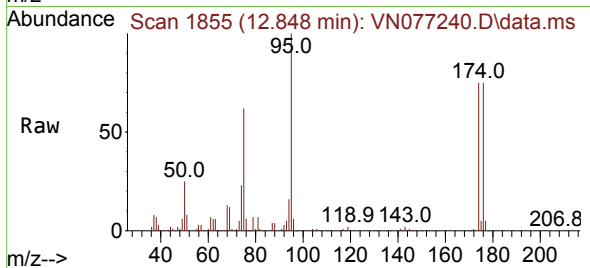




#81
trans-1,4-Dichloro-2-butene
Concen: 105.517 ug/l
RT: 12.848 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

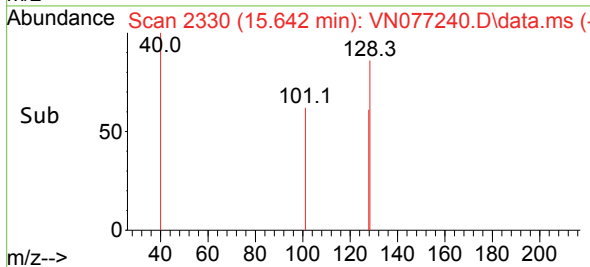
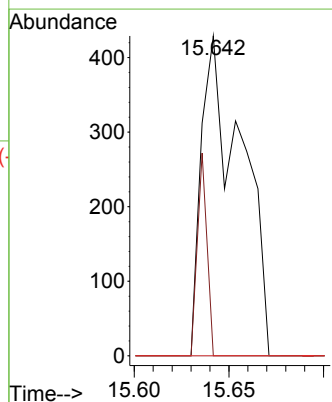
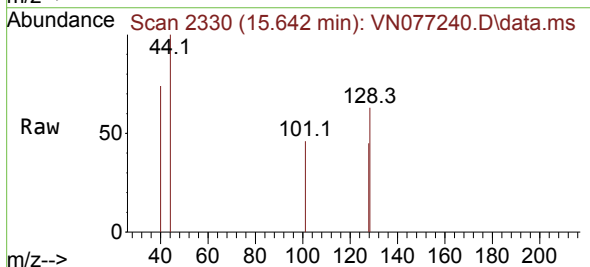
Instrument :
MSVOA_N
ClientSampleId :
WV-SOIL3-0327

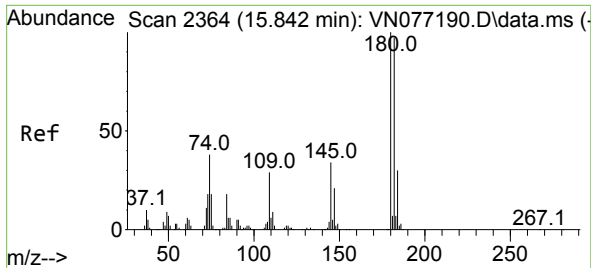
Tgt Ion: 75 Resp: 125790
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.0#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 5.976 ug/l
RT: 15.642 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN077240.D
Acq: 28 Mar 2023 16:30

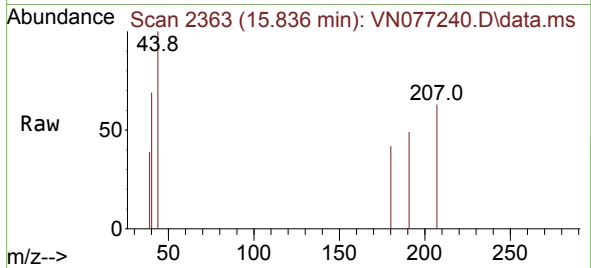
Tgt Ion: 128 Resp: 627
Ion Ratio Lower Upper
128 100
127 15.3 10.2 15.4
129 0.0 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 4.702 ug/l
 RT: 15.836 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN077240.D
 Acq: 28 Mar 2023 16:30

Instrument :
 MSVOA_N
 ClientSampleId :
 WV-SOIL3-0327



Tgt Ion:180 Resp: 157
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.7 143.1#
 145 0.0 17.0 51.0#

