

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061623\
 Data File : VN078263.D
 Acq On : 16 Jun 2023 16:29
 Operator : JC\MD
 Sample : 03262-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL1-0615

Quant Time: Jun 17 02:25:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

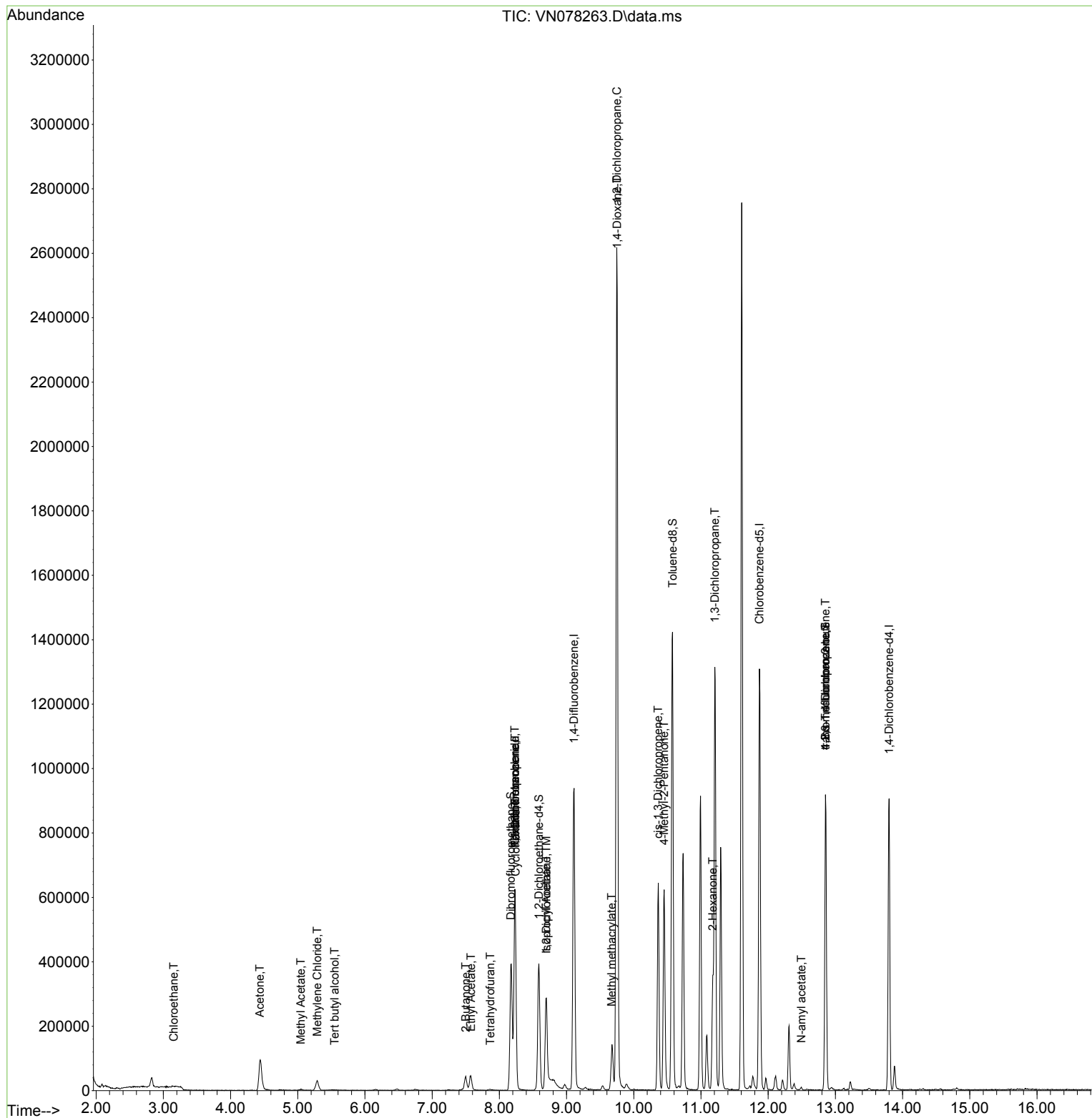
Internal Standards						
1) Pentafluorobenzene	8.236	168	438882	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	831922	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	775593	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	243602	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	320504	54.772	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.540%			
35) Dibromofluoromethane	8.171	113	284035	53.998	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.000%			
50) Toluene-d8	10.577	98	1002690	49.446	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.900%			
62) 4-Bromofluorobenzene	12.853	95	317586	50.378	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.760%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	821	Below Cal		92
6) Chloroethane	3.153	64	2056	0.464 ug/l #		43
11) Tert butyl alcohol	5.547	59	425	0.526 ug/l #		72
16) Acetone	4.436	43	178941	106.239 ug/l		90
18) Methyl Acetate	5.047	43	5656	0.729 ug/l #		85
20) Methylene Chloride	5.289	84	22557	4.053 ug/l #		93
25) 2-Butanone	7.500	43	63717	24.600 ug/l		93
29) Tetrahydrofuran	7.865	42	1532	0.885 ug/l #		85
31) Cyclohexane	8.241	56	10986	1.464 ug/l #		55
36) 1,1-Dichloropropene	8.236	75	37706	4.997 ug/l #		48
37) Ethyl Acetate	7.577	43	67169	11.396 ug/l		95
38) Carbon Tetrachloride	8.230	117	49485	6.211 ug/l #		16
42) 1,2-Dichloroethane	8.700	62	2458	0.318 ug/l		79
43) Isopropyl Acetate	8.700	43	343375	30.462 ug/l #		80
45) 1,2-Dichloropropane	9.747	63	3424	0.611 ug/l #		45
48) Methyl methacrylate	9.671	41	8091	1.710 ug/l #		35
49) 1,4-Dioxane	9.753	88	408	4.104 ug/l #		1
51) 4-Methyl-2-Pentanone	10.453	43	417414	70.320 ug/l		91
54) cis-1,3-Dichloropropene	10.365	75	117957	13.363 ug/l #		70
57) 1,3-Dichloropropane	11.206	76	14512	1.598 ug/l #		42
59) 2-Hexanone	11.176	43	257785	62.371 ug/l #		19
74) N-amyl acetate	12.494	43	4396	0.580 ug/l #		44
75) 1,1,2,2-Tetrachloroethane	12.853	83	542	Below Cal		2
76) 1,2,3-Trichloropropane	12.853	75	172384	29.934 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	172384	91.966 ug/l #		15

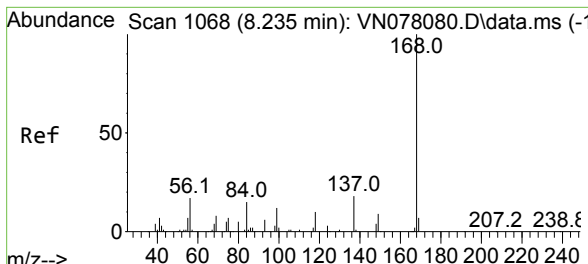
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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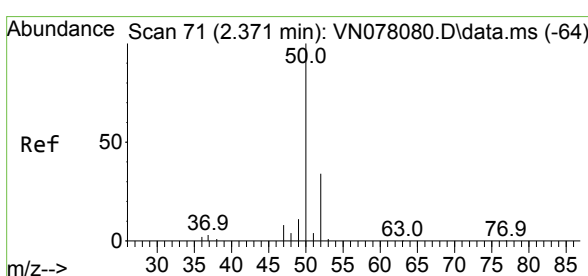
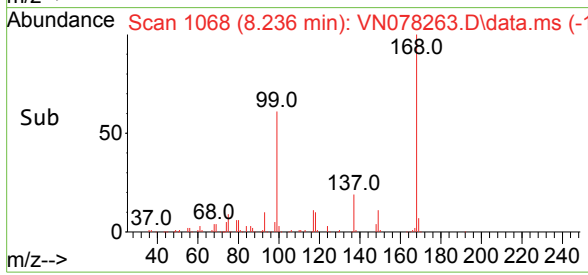
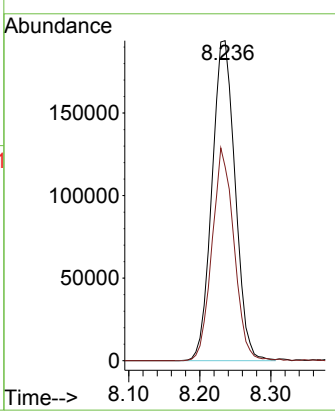
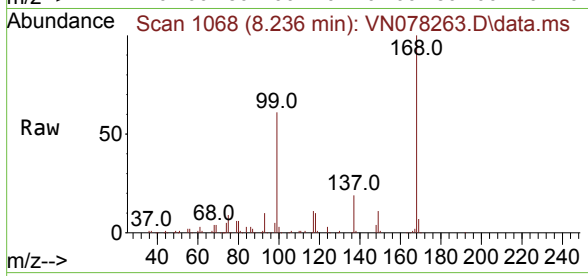


#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.236 min Scan# 1068
 Delta R.T. 0.001 min
 Lab File: VN078263.D
 Acq: 16 Jun 2023 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL1-0615

Tgt Ion:168 Resp: 438882

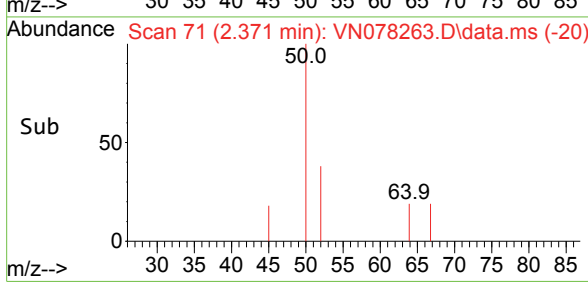
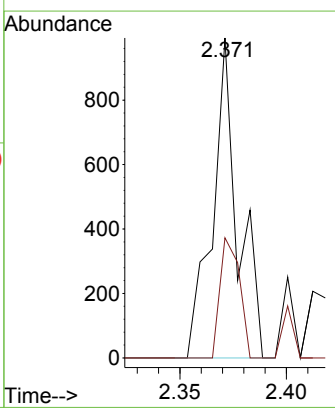
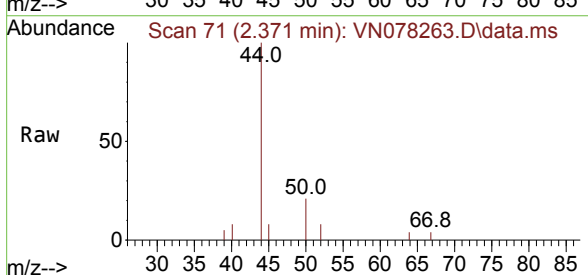
Ion	Ratio	Lower	Upper
168	100		
99	60.6	53.0	79.6

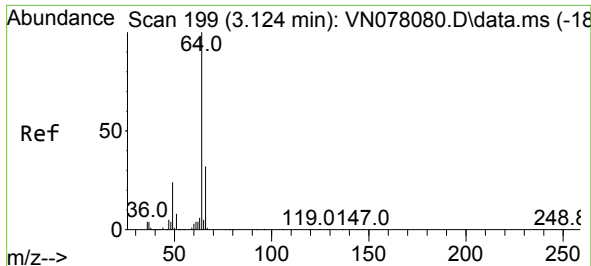


#3
 Chloromethane
 Concen: Below Cal
 RT: 2.371 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VN078263.D
 Acq: 16 Jun 2023 16:29

Tgt Ion: 50 Resp: 821

Ion	Ratio	Lower	Upper
50	100		
52	37.6	26.5	39.7

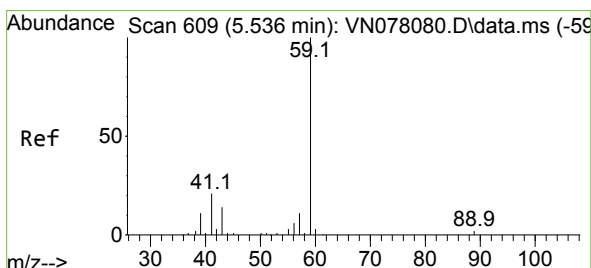
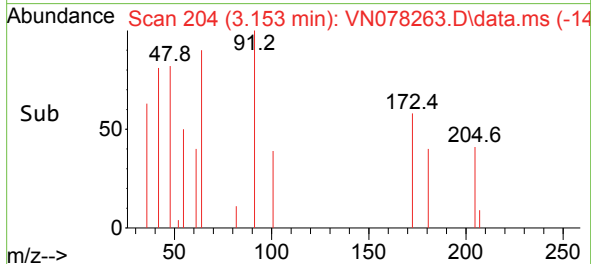
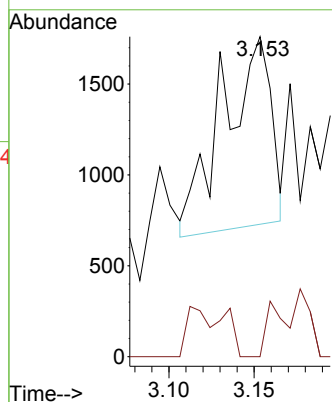
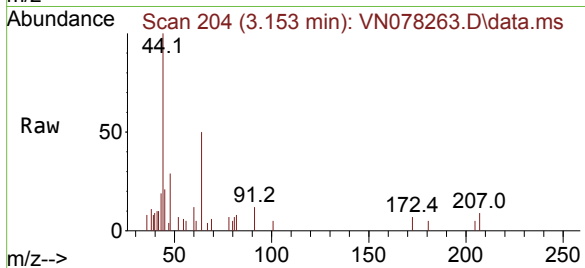




#6
Chloroethane
Concen: 0.464 ug/l
RT: 3.153 min Scan# 204
Delta R.T. 0.029 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

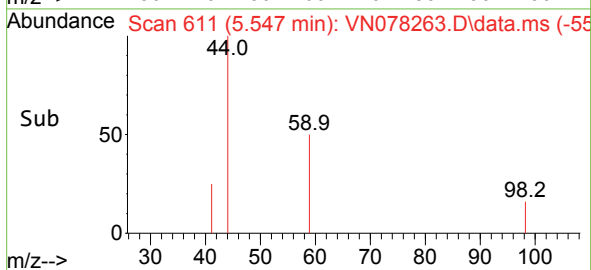
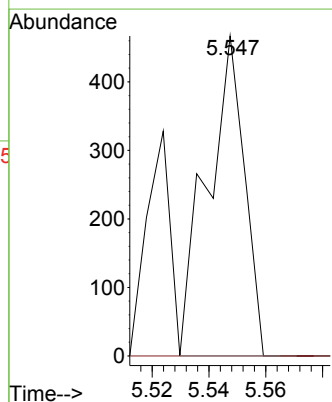
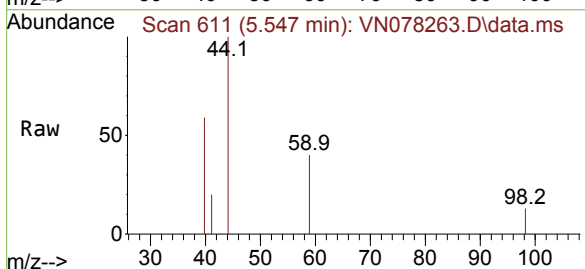
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL1-0615

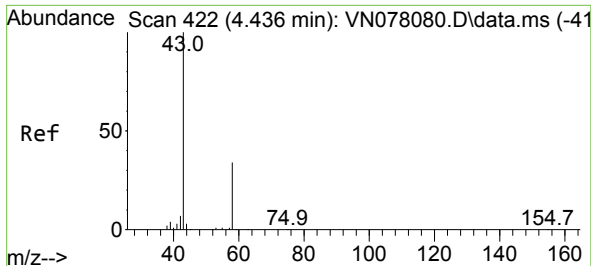
Tgt Ion: 64 Resp: 2056
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.526 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.012 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

Tgt Ion: 59 Resp: 425
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

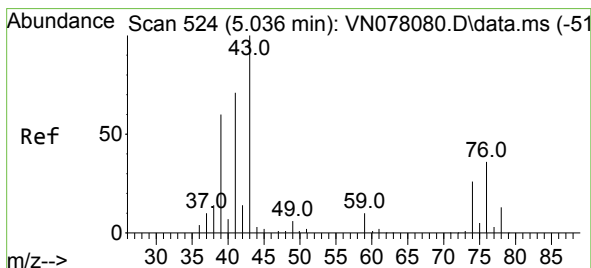
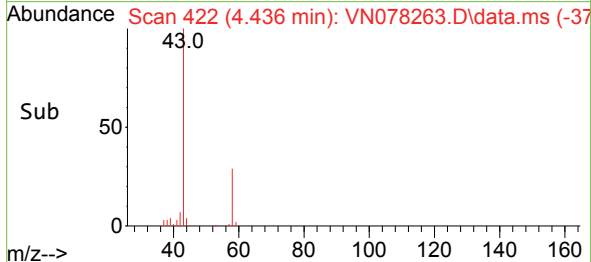
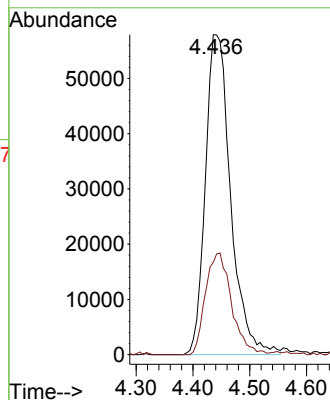
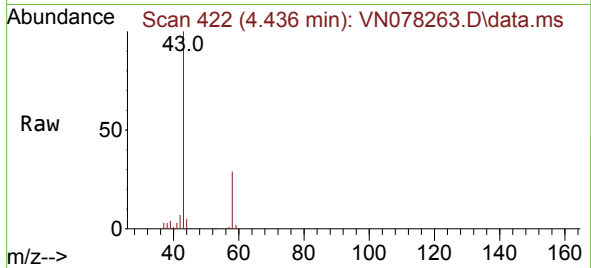




#16
Acetone
Concen: 106.239 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

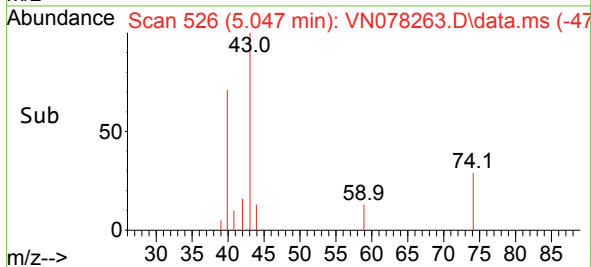
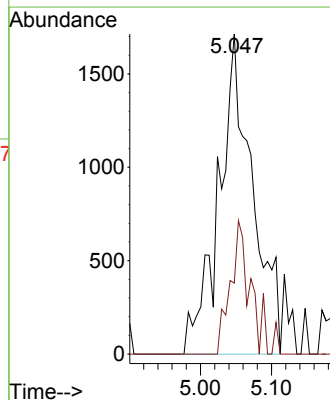
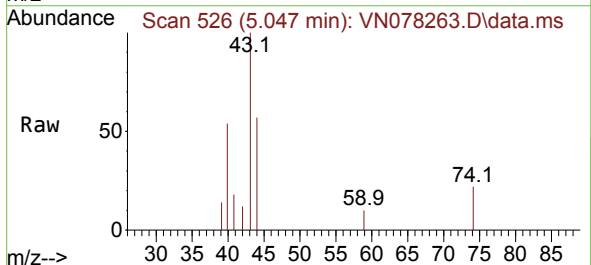
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL1-0615

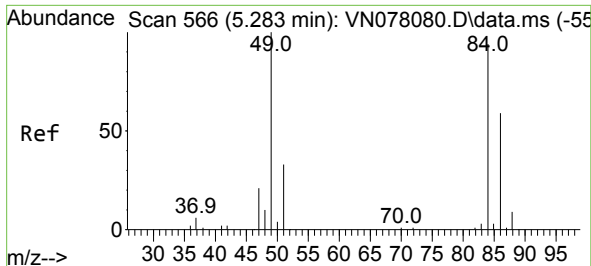
Tgt Ion: 43 Resp: 178941
Ion Ratio Lower Upper
43 100
58 28.9 28.0 42.0



#18
Methyl Acetate
Concen: 0.729 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

Tgt Ion: 43 Resp: 5656
Ion Ratio Lower Upper
43 100
74 24.2 26.2 39.4#

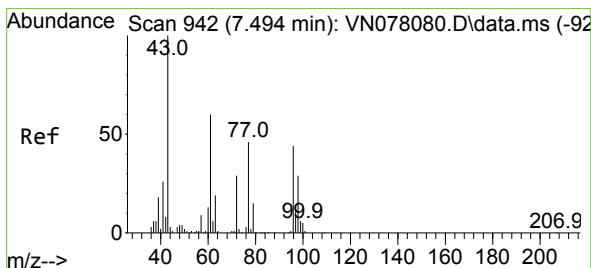
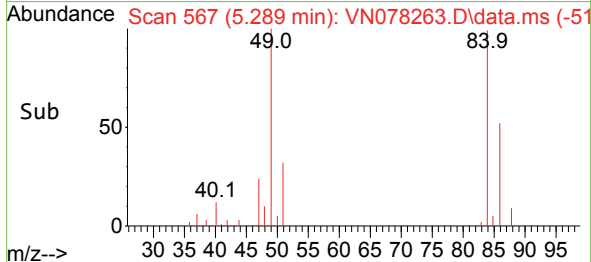
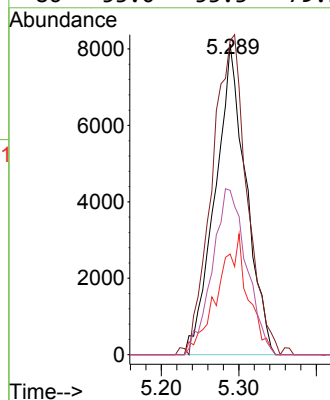
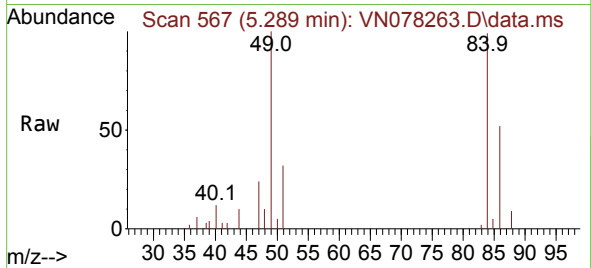




#20
Methylene Chloride
Concen: 4.053 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

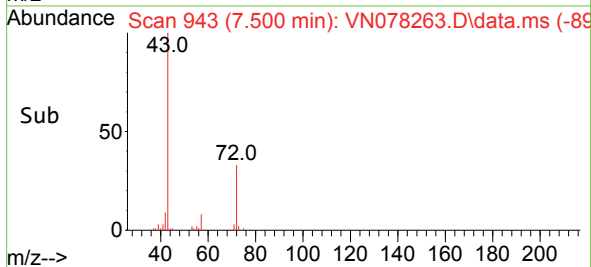
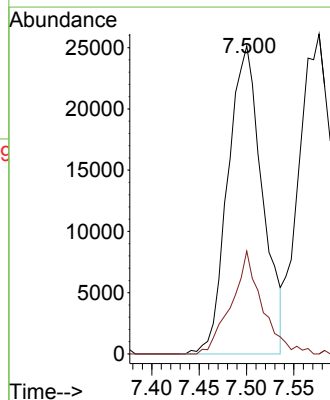
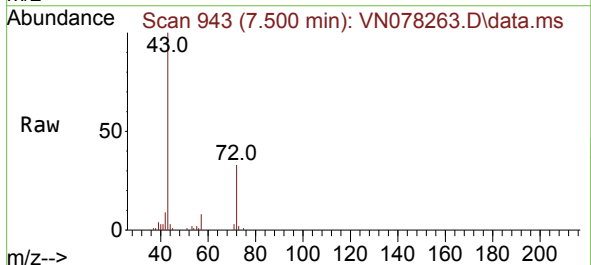
Instrument :
MSVOA_N
ClientSampleId :
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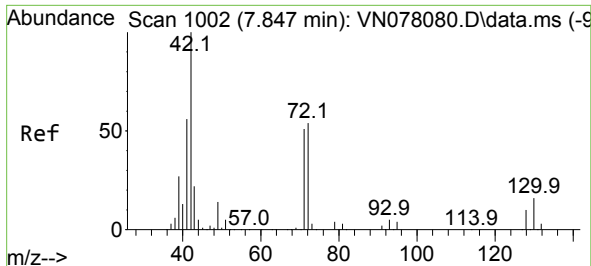
Tgt Ion:	84	Resp:	22557
Ion	Ratio	Lower	Upper
84	100		
49	101.1	79.7	119.5
51	32.4	25.2	37.8
86	53.0	53.3	79.9



#25
2-Butanone
Concen: 24.600 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

Tgt Ion:	43	Resp:	63717
Ion	Ratio	Lower	Upper
43	100		
72	33.4	30.2	45.2

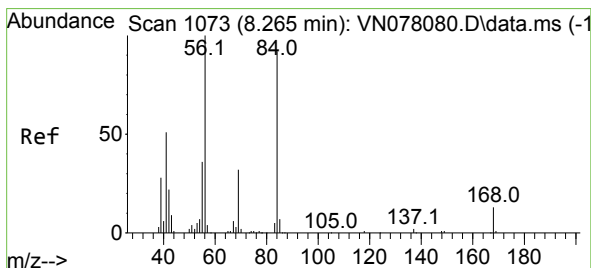
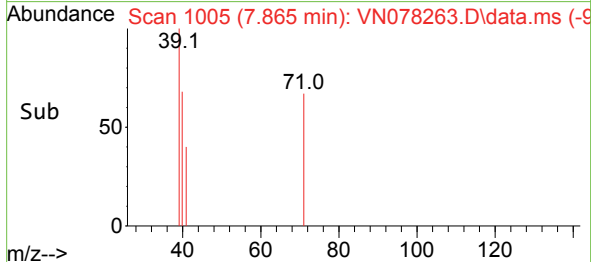
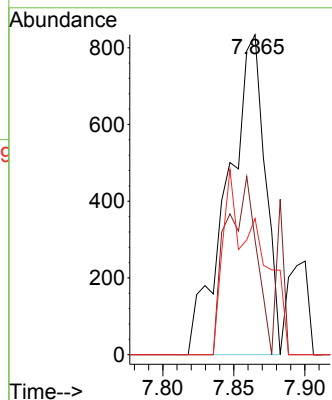
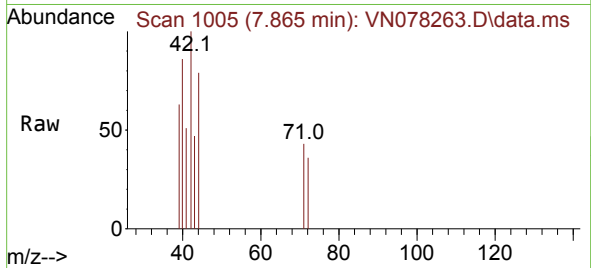




#29
Tetrahydrofuran
Concen: 0.885 ug/l
RT: 7.865 min Scan# 1069
Delta R.T. 0.018 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

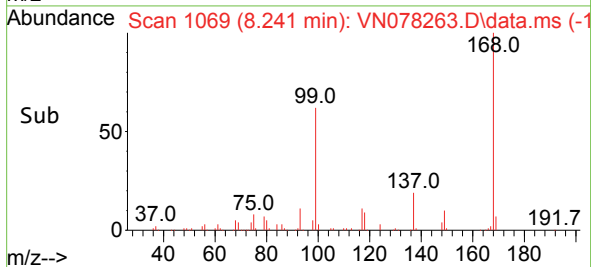
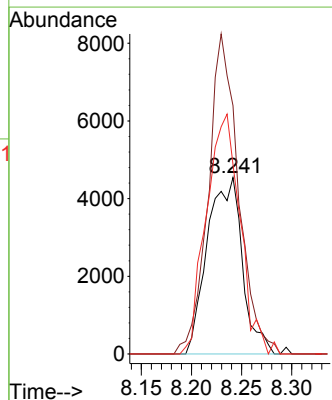
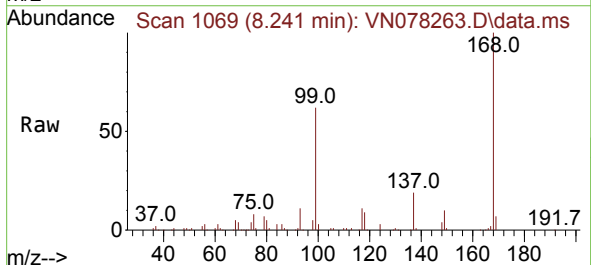
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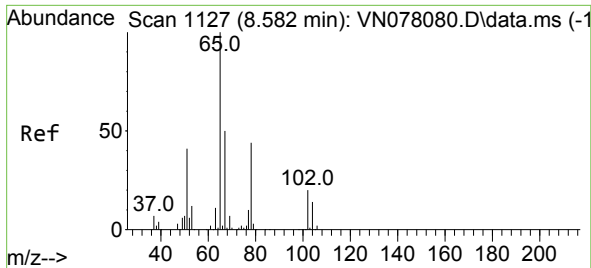
Tgt Ion: 42 Resp: 1532
Ion Ratio Lower Upper
42 100
72 44.3 49.8 74.6#
71 54.2 47.4 71.2



#31
Cyclohexane
Concen: 1.464 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. -0.023 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

Tgt Ion: 56 Resp: 10986
Ion Ratio Lower Upper
56 100
69 135.7 26.8 40.2#
84 103.5 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.772 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078263.D

Acq: 16 Jun 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

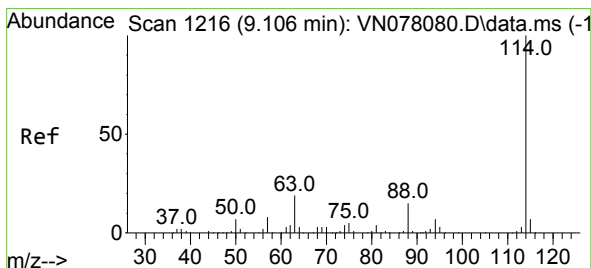
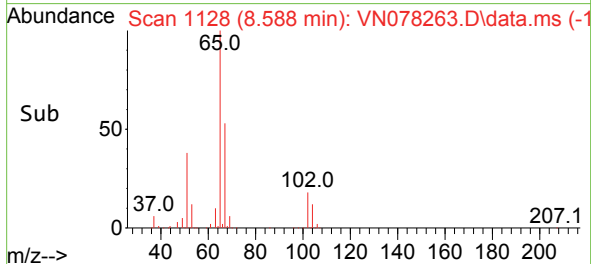
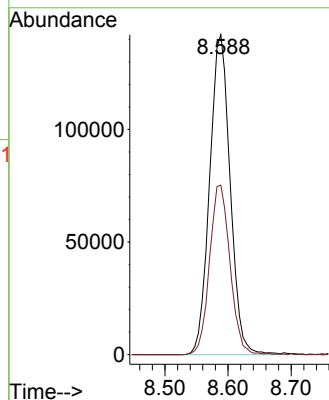
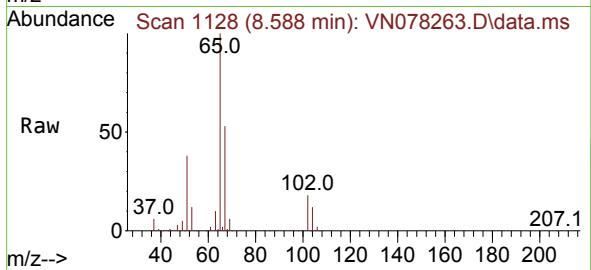
WS-SOIL1-0615

Tgt Ion: 65 Resp: 320504

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078263.D

Acq: 16 Jun 2023 16:29

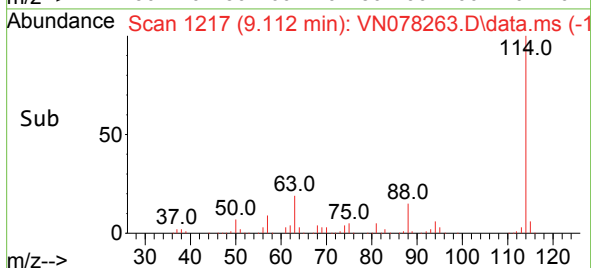
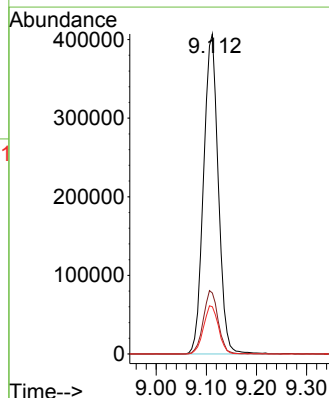
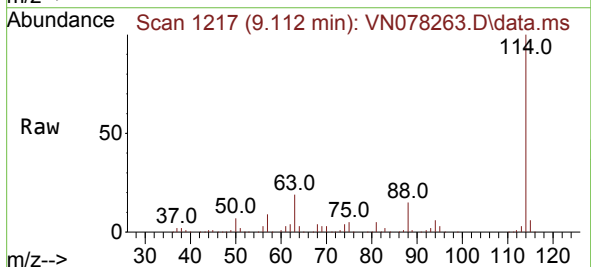
Tgt Ion: 114 Resp: 831922

Ion Ratio Lower Upper

114 100

63 19.0 0.0 36.4

88 14.8 0.0 30.6

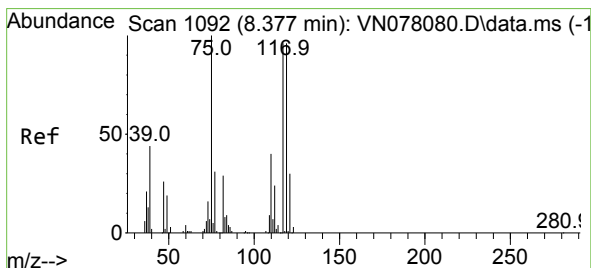
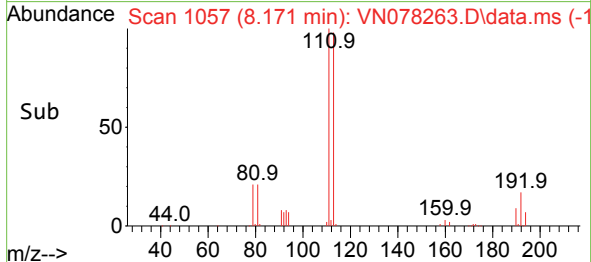
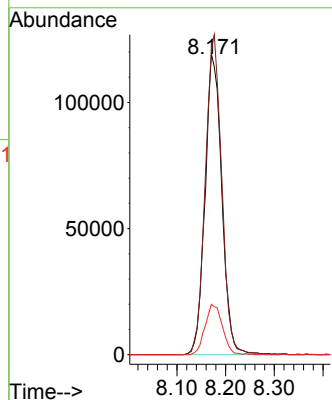
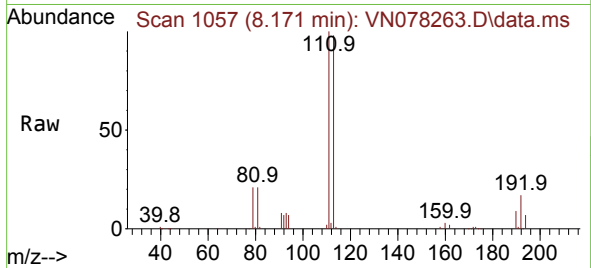




#35
 Dibromofluoromethane
 Concen: 53.998 ug/l
 RT: 8.171 min Scan# 1057
 Delta R.T. -0.006 min
 Lab File: VN078263.D
 Acq: 16 Jun 2023 16:29

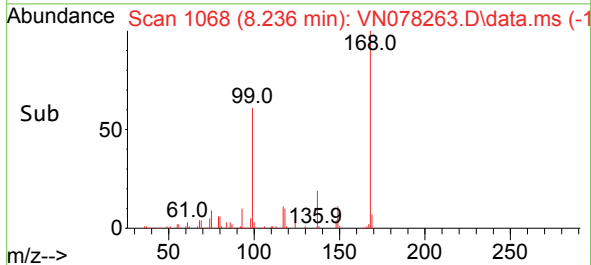
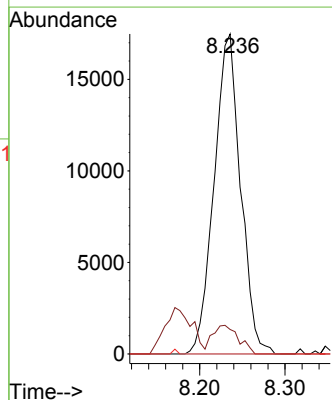
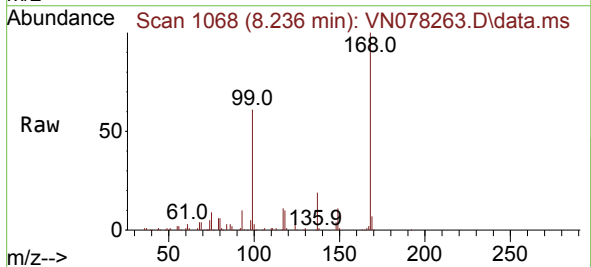
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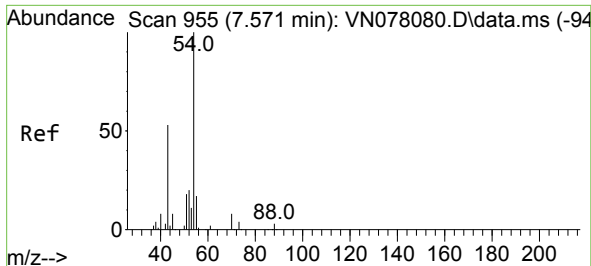
Tgt Ion:113 Resp: 284035
 Ion Ratio Lower Upper
 113 100
 111 104.8 82.6 123.8
 192 17.3 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.997 ug/l
 RT: 8.236 min Scan# 1068
 Delta R.T. -0.141 min
 Lab File: VN078263.D
 Acq: 16 Jun 2023 16:29

Tgt Ion: 75 Resp: 37706
 Ion Ratio Lower Upper
 75 100
 110 8.8 19.1 57.3#
 77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 11.396 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN078263.D

Acq: 16 Jun 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

WS-SOIL1-0615

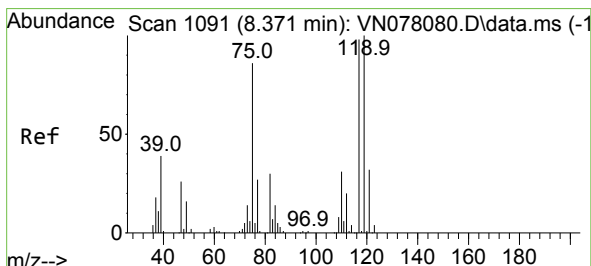
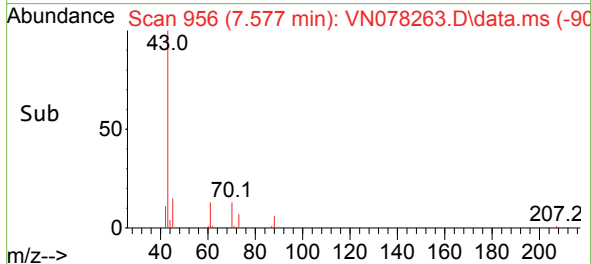
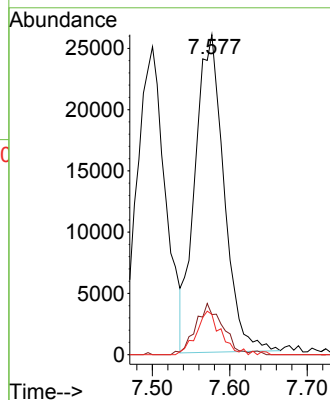
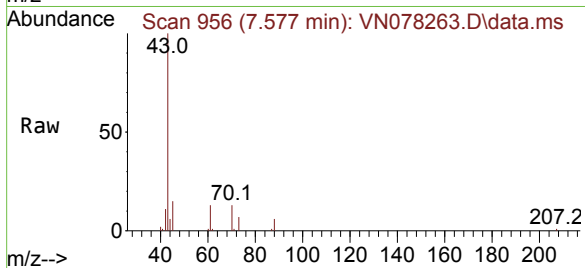
Tgt Ion: 43 Resp: 67169

Ion Ratio Lower Upper

43 100

61 15.1 13.2 19.8

70 11.7 11.3 16.9



#38

Carbon Tetrachloride

Concen: 6.211 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078263.D

Acq: 16 Jun 2023 16:29

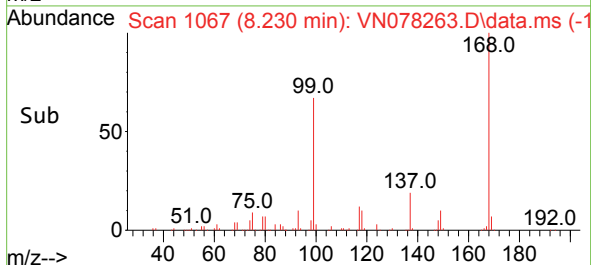
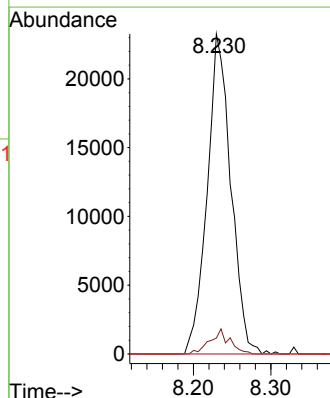
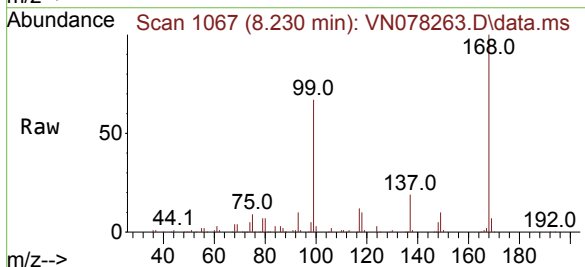
Tgt Ion: 117 Resp: 49485

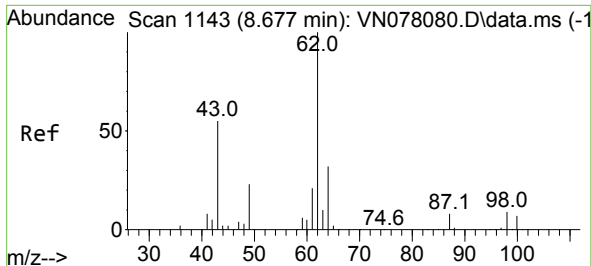
Ion Ratio Lower Upper

117 100

119 5.0 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.318 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.024 min

Lab File: VN078263.D

Acq: 16 Jun 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

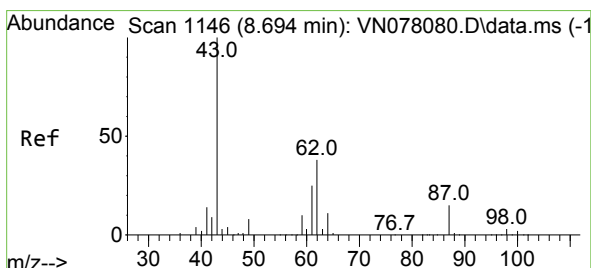
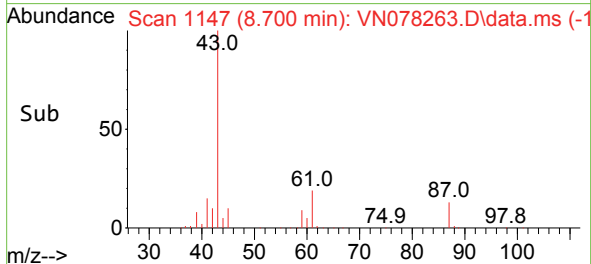
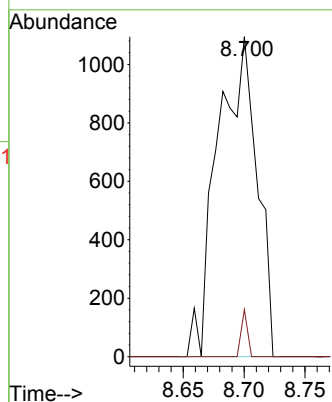
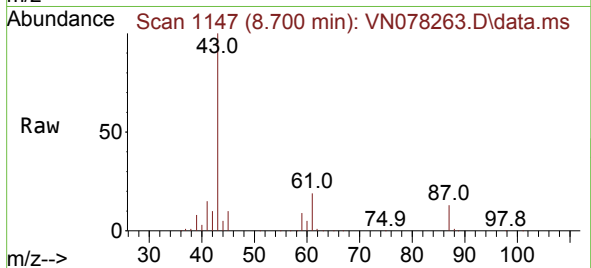
WS-SOIL1-0615

Tgt Ion: 62 Resp: 2458

Ion Ratio Lower Upper

62 100

98 2.3 0.0 19.8



#43

Isopropyl Acetate

Concen: 30.462 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078263.D

Acq: 16 Jun 2023 16:29

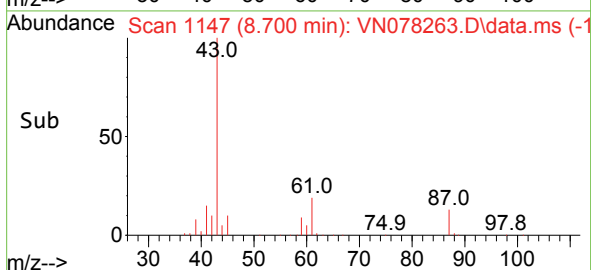
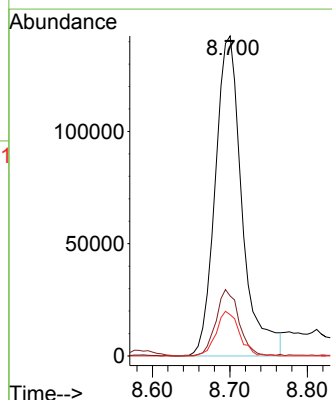
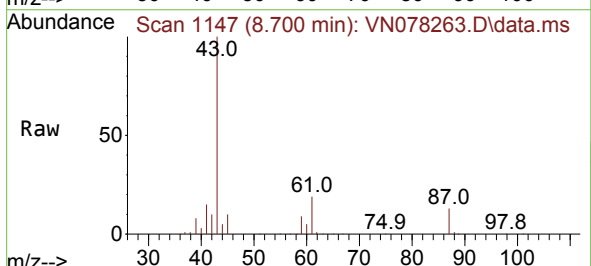
Tgt Ion: 43 Resp: 343375

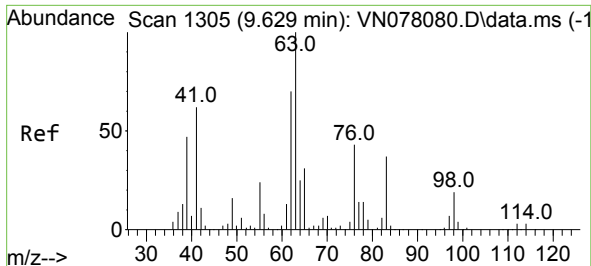
Ion Ratio Lower Upper

43 100

61 17.9 24.7 37.1#

87 12.1 14.6 21.8#

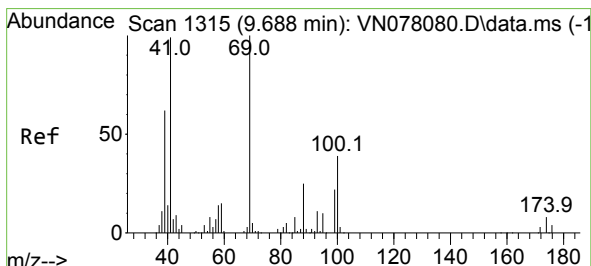
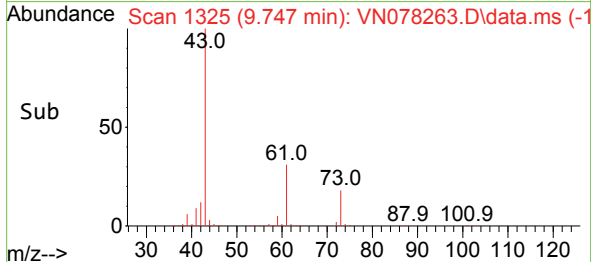
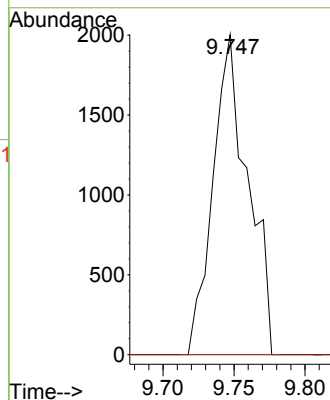
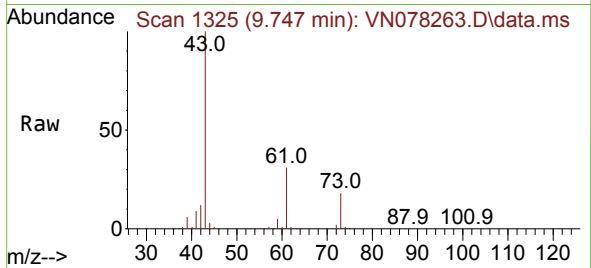




#45
1,2-Dichloropropane
Concen: 0.611 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.118 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

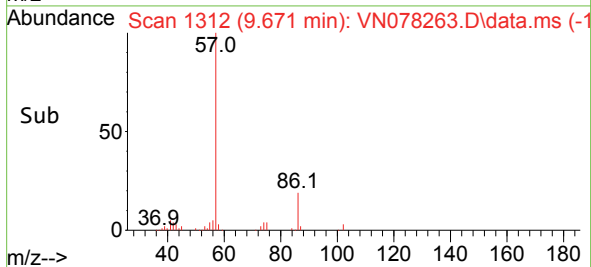
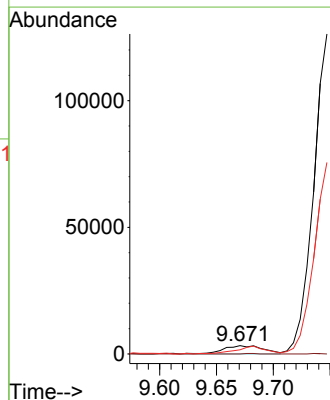
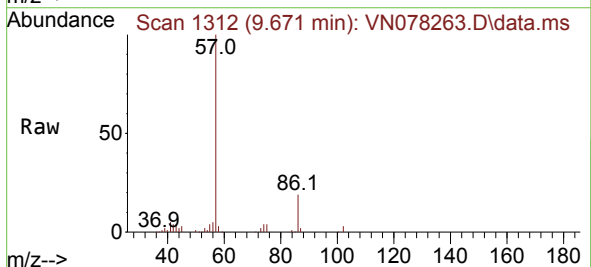
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL1-0615

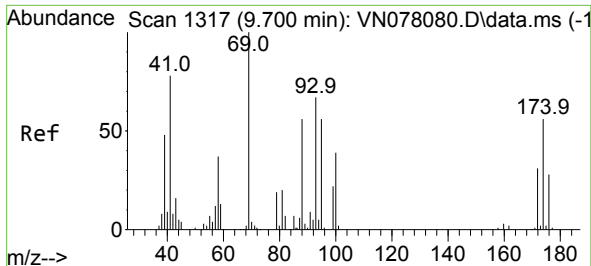
Tgt Ion: 63 Resp: 3424
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.710 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

Tgt Ion: 41 Resp: 8091
Ion Ratio Lower Upper
41 100
69 1.8 90.4 135.6#
39 69.1 54.6 81.8





#49

1,4-Dioxane

Concen: 4.104 ug/l

RT: 9.753 min Scan# 1317

Delta R.T. 0.053 min

Lab File: VN078263.D

Acq: 16 Jun 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

WS-SOIL1-0615

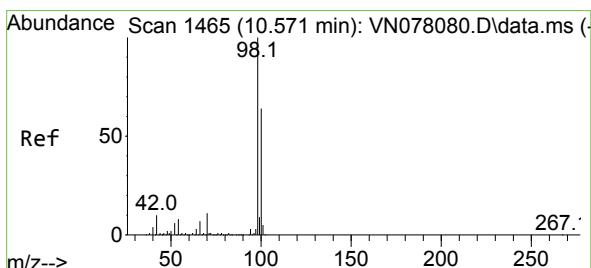
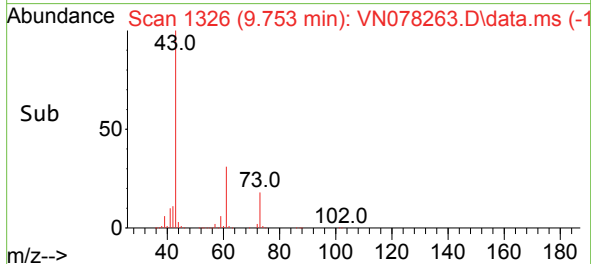
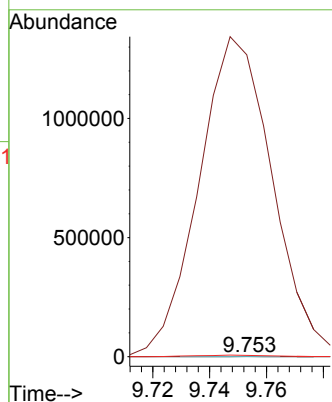
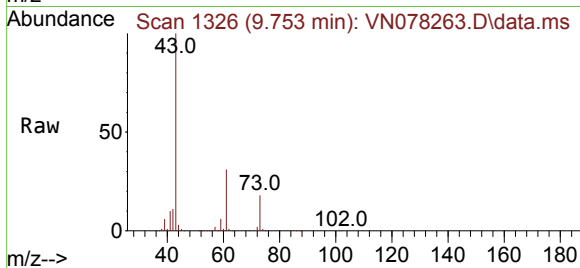
Tgt Ion: 88 Resp: 408

Ion Ratio Lower Upper

88 100

43 599230.6 17.0 25.6#

58 2921.8 47.0 70.4#



#50

Toluene-d8

Concen: 49.446 ug/l

RT: 10.577 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN078263.D

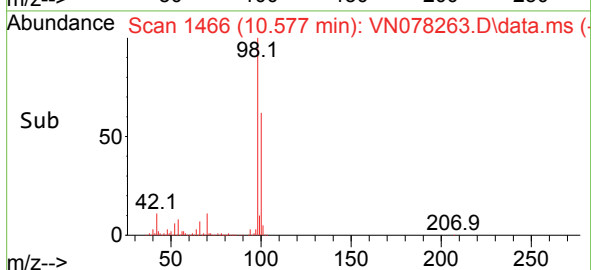
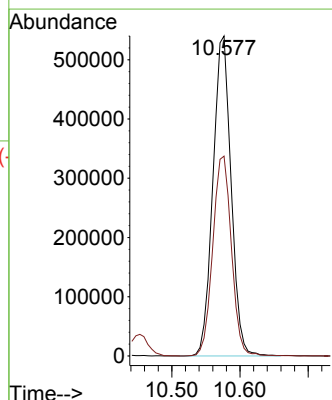
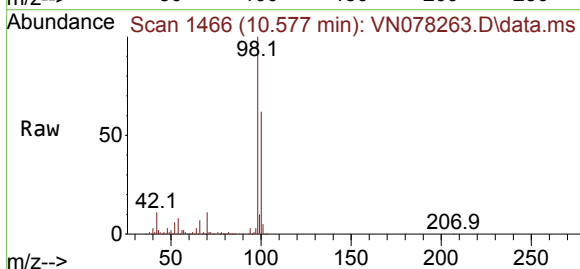
Acq: 16 Jun 2023 16:29

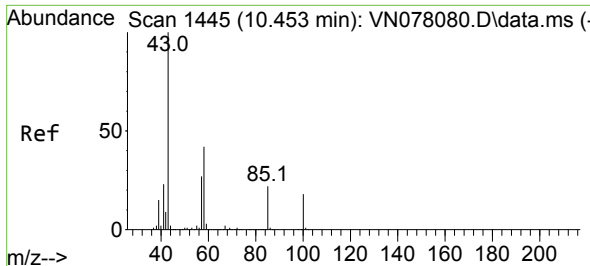
Tgt Ion: 98 Resp: 1002690

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0

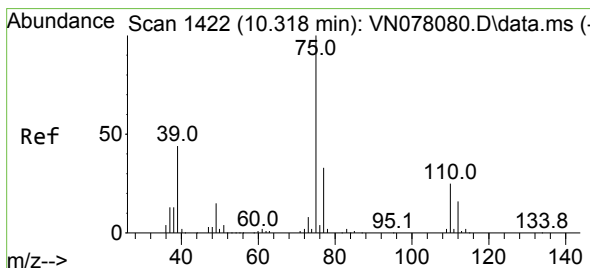
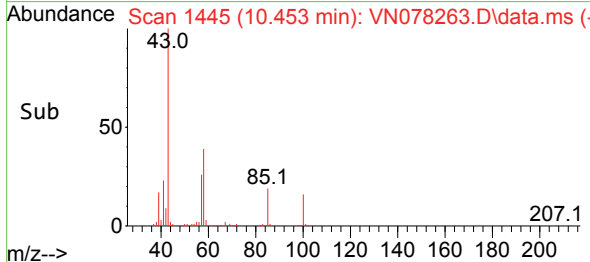
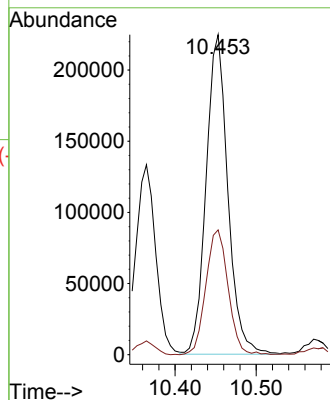
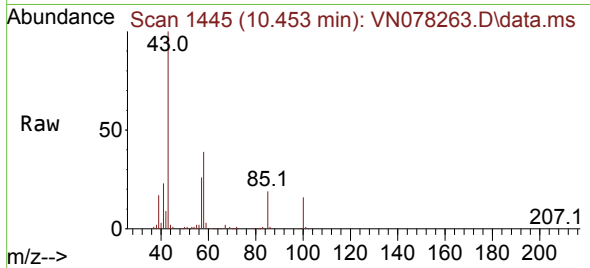




#51
4-Methyl-2-Pentanone
Concen: 70.320 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

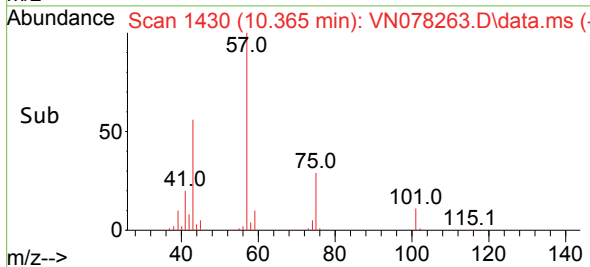
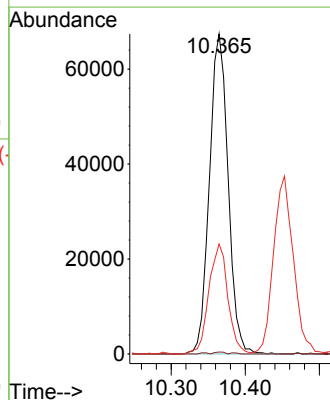
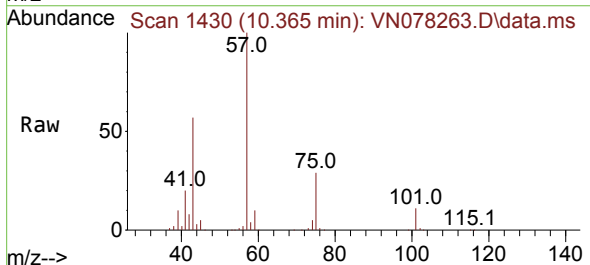
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL1-0615

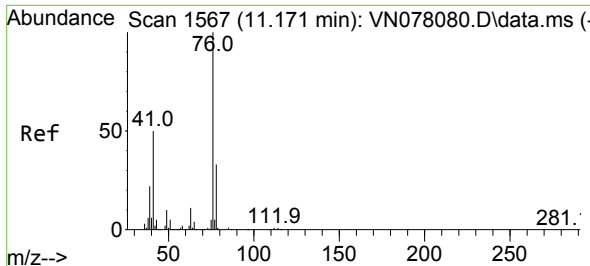
Tgt Ion: 43 Resp: 417414
Ion Ratio Lower Upper
43 100
58 40.0 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 13.363 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

Tgt Ion: 75 Resp: 117957
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 34.3 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.598 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078263.D

Acq: 16 Jun 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

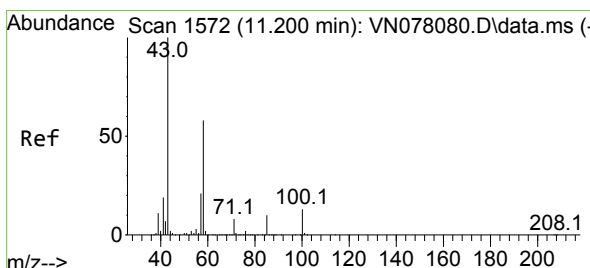
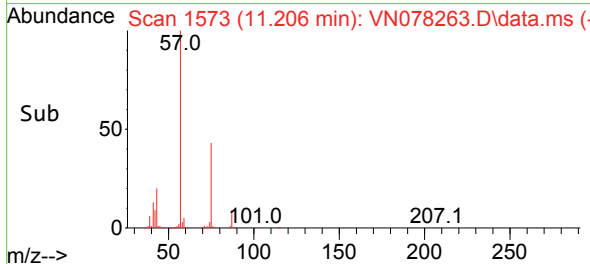
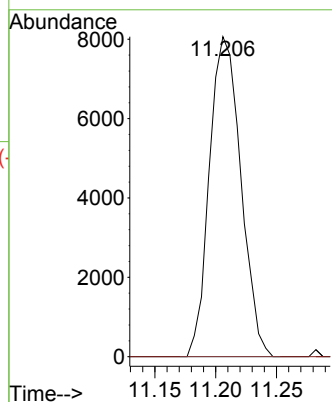
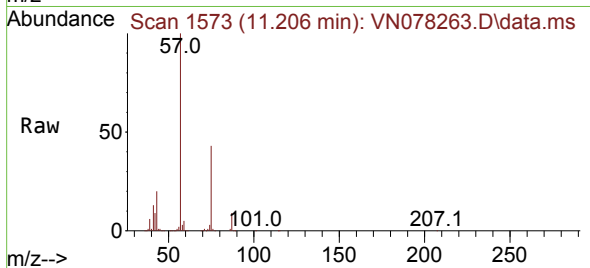
WS-SOIL1-0615

Tgt Ion: 76 Resp: 14512

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 62.371 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078263.D

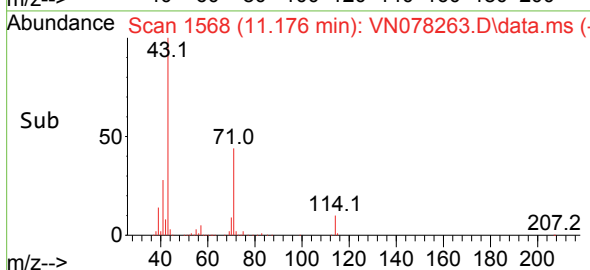
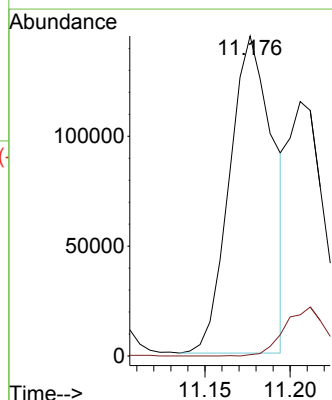
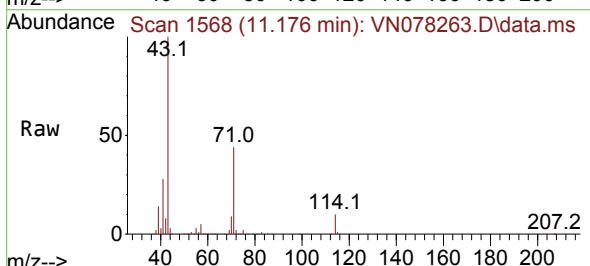
Acq: 16 Jun 2023 16:29

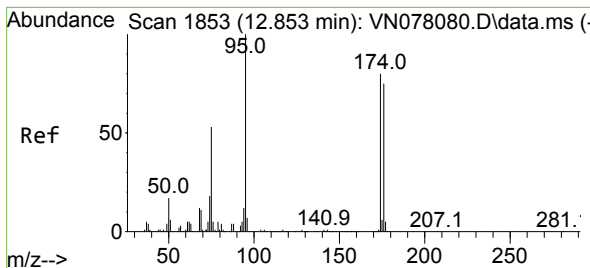
Tgt Ion: 43 Resp: 257785

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

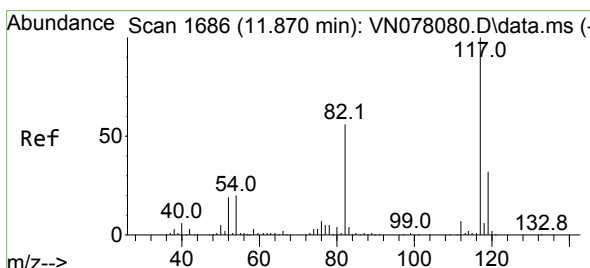
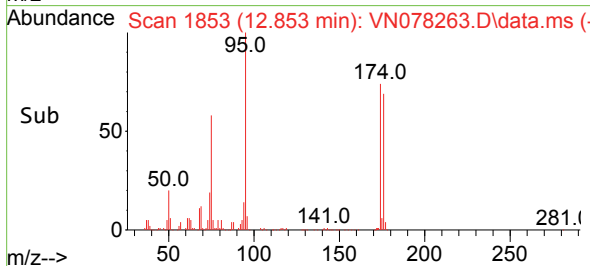
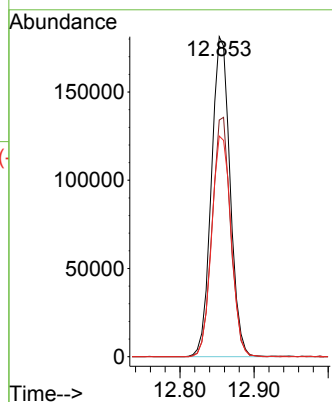
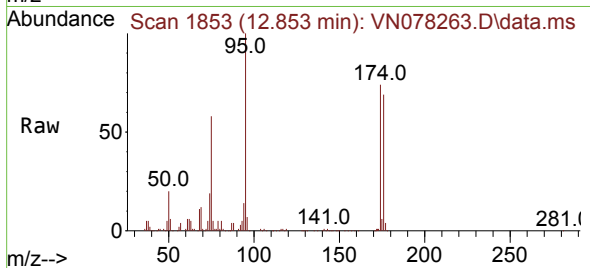




#62
4-Bromofluorobenzene
Concen: 50.378 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

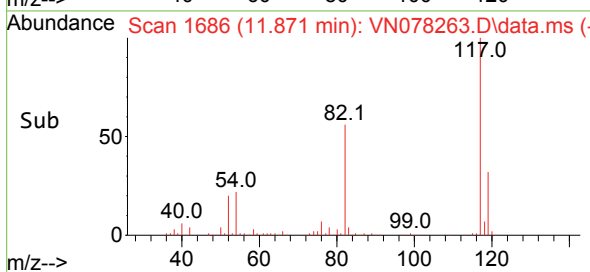
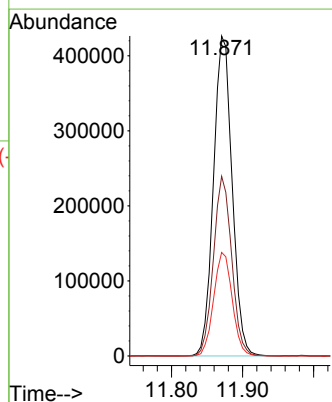
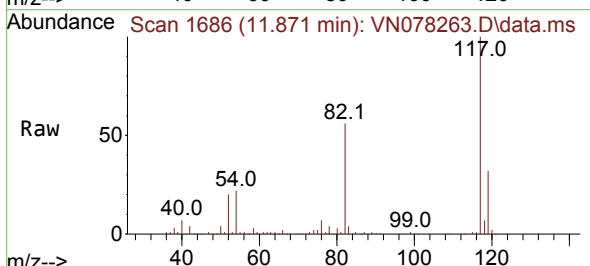
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL1-0615

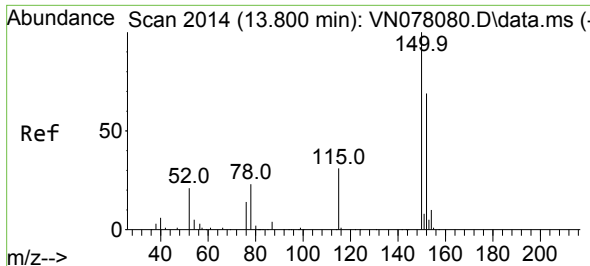
Tgt Ion: 95 Resp: 317586
Ion Ratio Lower Upper
95 100
174 74.1 0.0 143.8
176 71.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

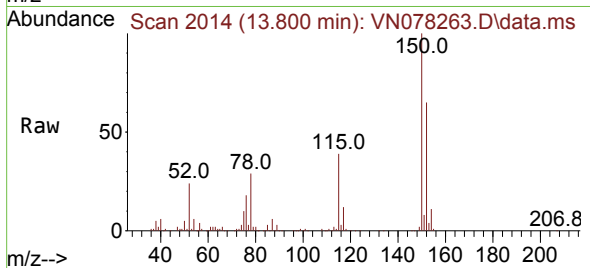
Tgt Ion: 117 Resp: 775593
Ion Ratio Lower Upper
117 100
82 56.1 44.0 66.0
119 32.4 25.6 38.4



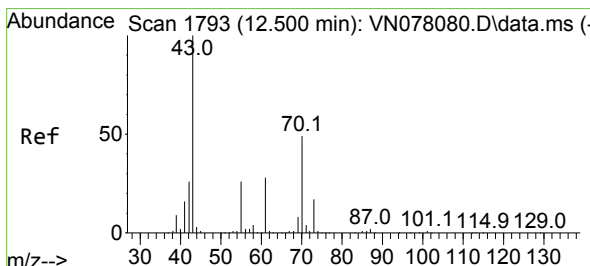
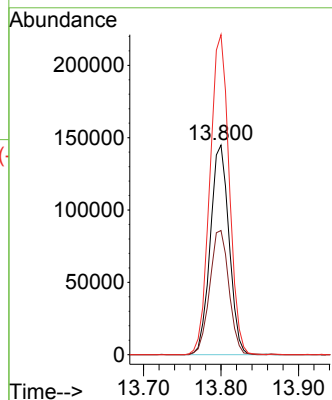
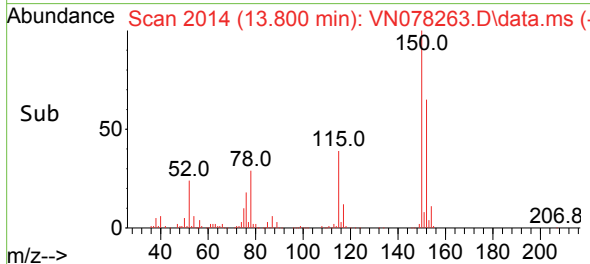


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

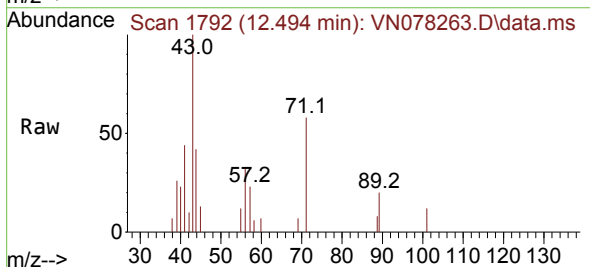
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL1-0615



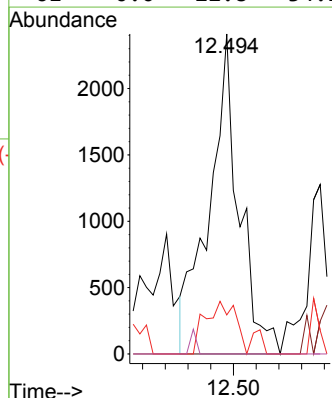
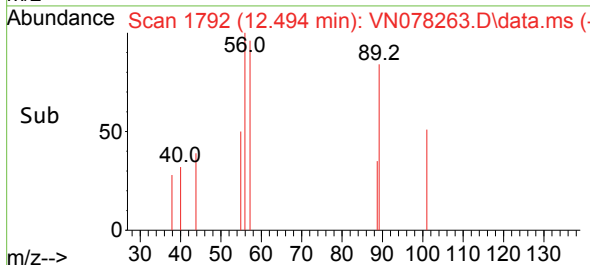
Tgt Ion:152 Resp: 243602
Ion Ratio Lower Upper
152 100
115 60.6 32.3 96.8
150 156.6 0.0 355.8

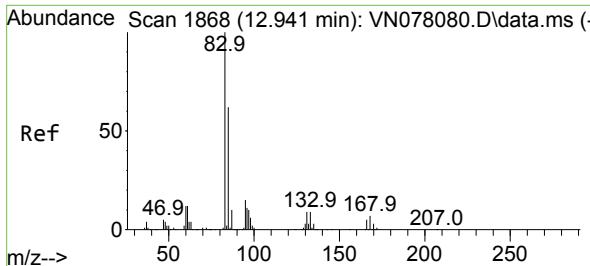


#74
N-ethyl acetate
Concen: 0.580 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29



Tgt Ion: 43 Resp: 4396
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 16.7 21.4 32.0#
61 0.0 22.8 34.2#

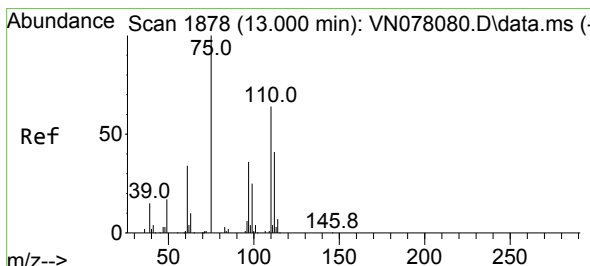
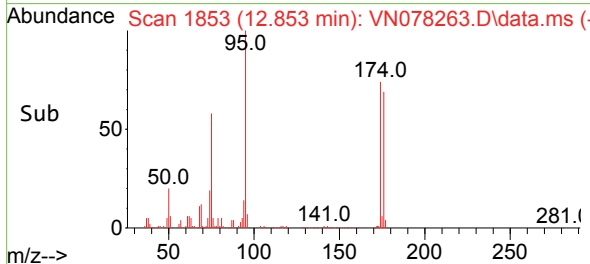
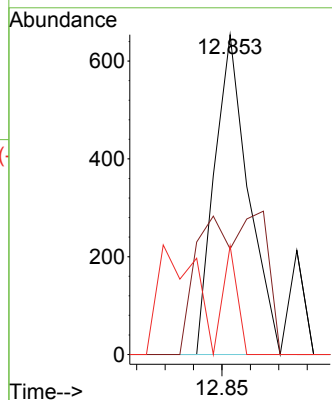
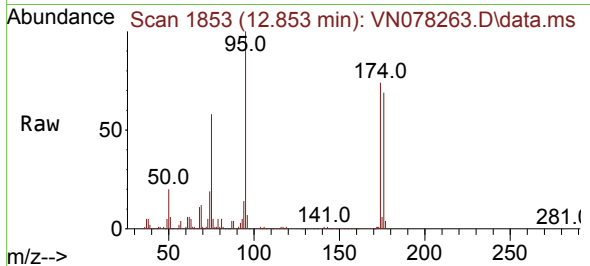




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.853 min Scan# 1853
Delta R.T. -0.088 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

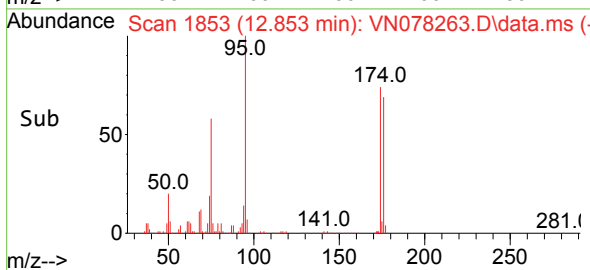
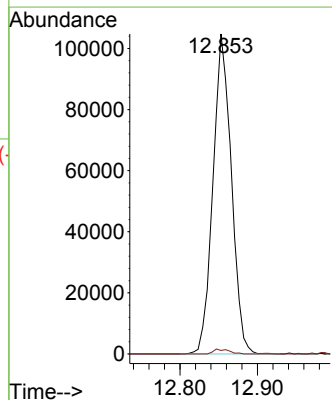
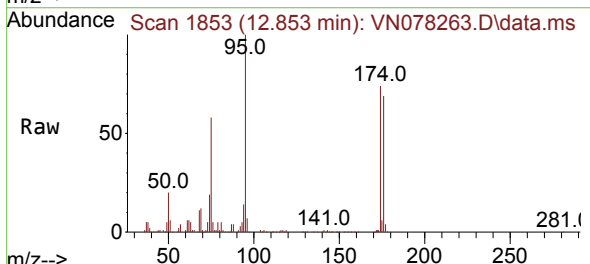
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL1-0615

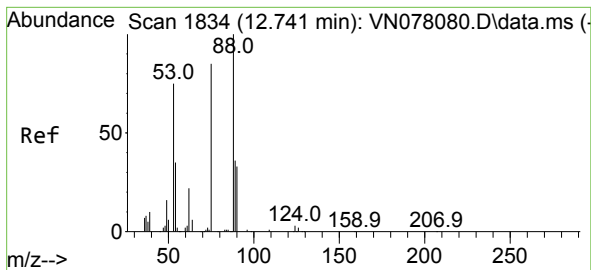
Tgt Ion: 83 Resp: 542
Ion Ratio Lower Upper
83 100
131 84.5 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 29.934 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078263.D
Acq: 16 Jun 2023 16:29

Tgt Ion: 75 Resp: 172384
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.966 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078263.D
 Acq: 16 Jun 2023 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL1-0615

Tgt Ion: 75 Resp: 172384
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

