

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061623\
 Data File : VN078265.D
 Acq On : 16 Jun 2023 17:17
 Operator : JC\MD
 Sample : 03262-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL3-0615

Quant Time: Jun 17 02:26:33 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)

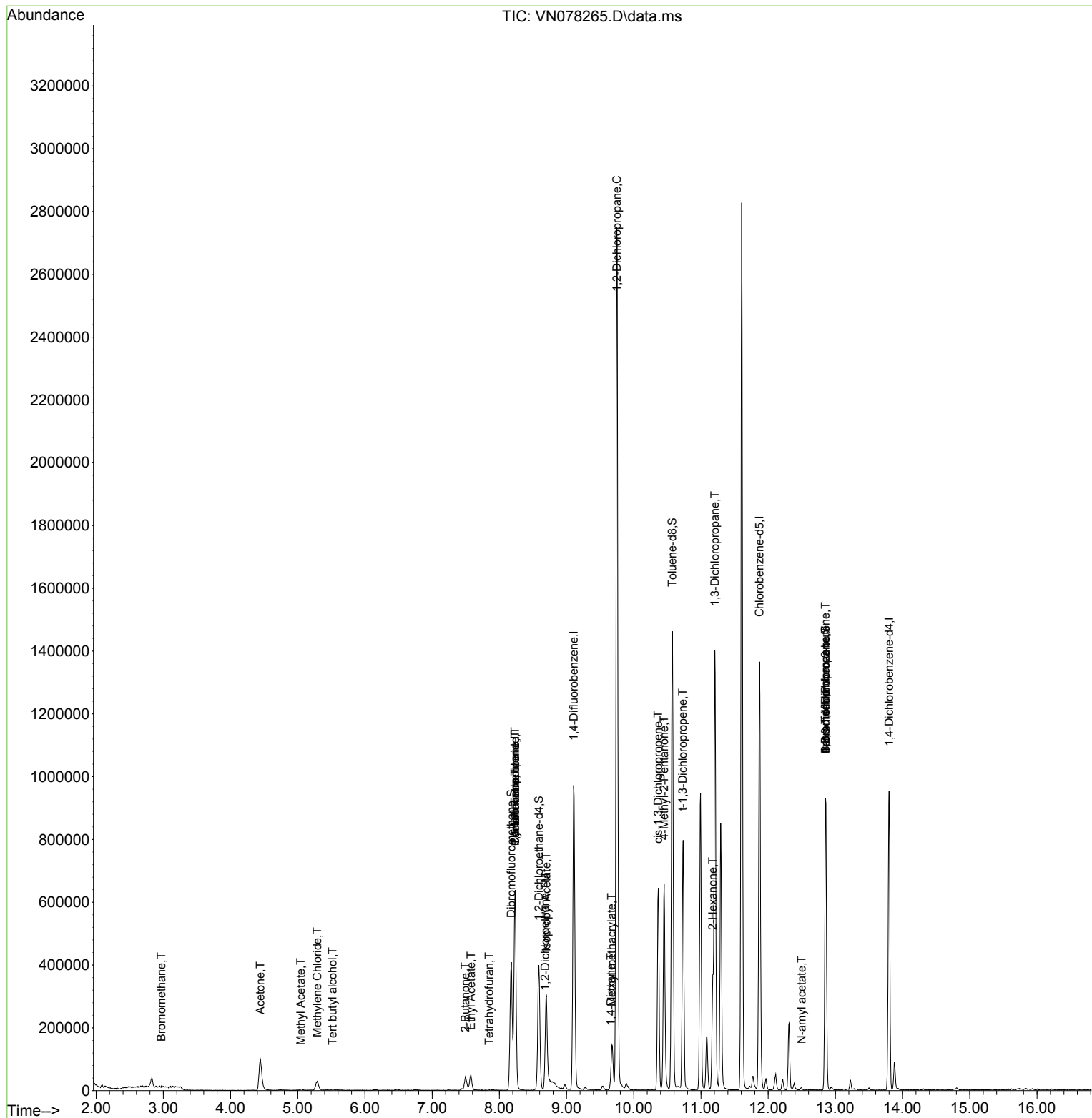
Internal Standards						
1) Pentafluorobenzene	8.235	168	445838	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	850077	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	803693	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	258184	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	326731	54.965	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.920%			
35) Dibromofluoromethane	8.177	113	292150	54.354	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.700%			
50) Toluene-d8	10.570	98	1040197	50.200	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.400%			
62) 4-Bromofluorobenzene	12.853	95	329660	51.177	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.360%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1071	Below Cal	#	84
5) Bromomethane	2.971	94	1718	0.344	ug/l #	35
11) Tert butyl alcohol	5.518	59	698	0.850	ug/l #	72
16) Acetone	4.441	43	181338	105.983	ug/l	96
18) Methyl Acetate	5.047	43	6805	0.864	ug/l #	82
20) Methylene Chloride	5.288	84	21727	3.843	ug/l #	86
25) 2-Butanone	7.494	43	65562	24.917	ug/l #	83
29) Tetrahydrofuran	7.847	42	815	0.463	ug/l #	52
31) Cyclohexane	8.235	56	11498	1.508	ug/l #	61
36) 1,1-Dichloropropene	8.235	75	39998	5.188	ug/l #	47
37) Ethyl Acetate	7.577	43	68981	11.453	ug/l #	86
38) Carbon Tetrachloride	8.235	117	48002	5.897	ug/l #	15
42) 1,2-Dichloroethane	8.682	62	1599	0.203	ug/l #	73
43) Isopropyl Acetate	8.700	43	353733	30.710	ug/l #	79
45) 1,2-Dichloropropane	9.747	63	3640	0.636	ug/l #	45
48) Methyl methacrylate	9.671	41	8809	1.822	ug/l #	31
49) 1,4-Dioxane	9.659	88	79	0.778	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	433496	71.470	ug/l	90
53) t-1,3-Dichloropropene	10.729	75	2509	0.307	ug/l	93
54) cis-1,3-Dichloropropene	10.365	75	120787	13.391	ug/l #	68
57) 1,3-Dichloropropane	11.206	76	14717	1.586	ug/l #	43
59) 2-Hexanone	11.176	43	269807	63.885	ug/l #	19
71) Bromoform	12.853	173	3226	0.790	ug/l #	1
74) N-amyl acetate	12.500	43	3764	0.468	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.853	83	735	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	181060	29.665	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	181060	91.139	ug/l #	15

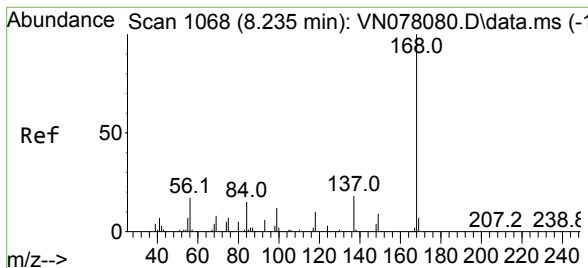
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061623\
Data File : VN078265.D
Acq On : 16 Jun 2023 17:17
Operator : JC\MD
Sample : 03262-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

Quant Time: Jun 17 02:26:33 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

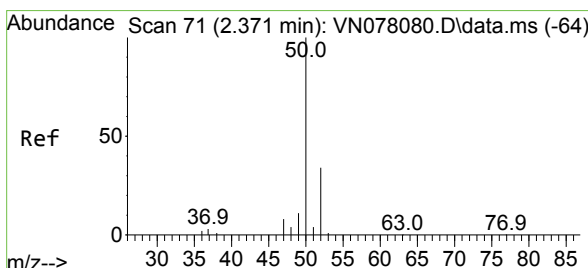
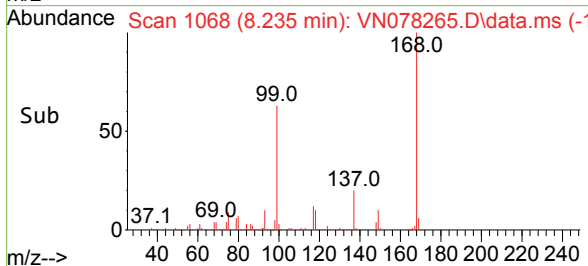
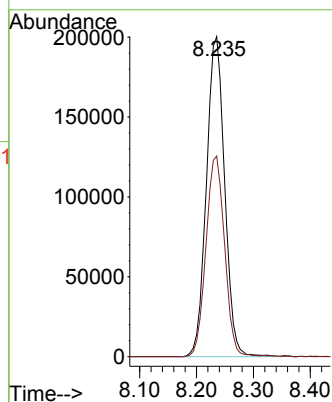
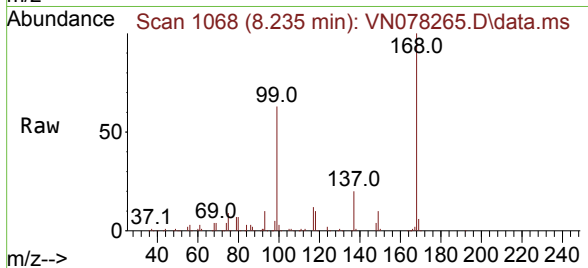
WS-SOIL3-0615

Tgt Ion:168 Resp: 445838

Ion Ratio Lower Upper

168 100

99 62.7 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078265.D

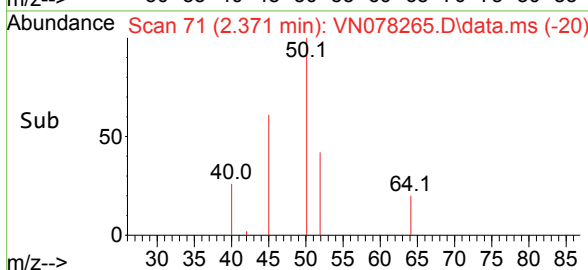
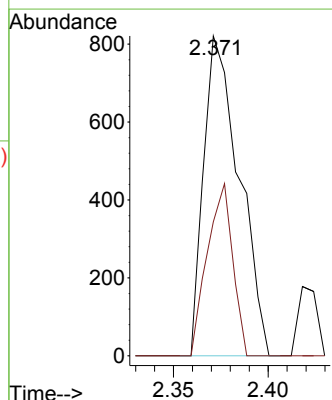
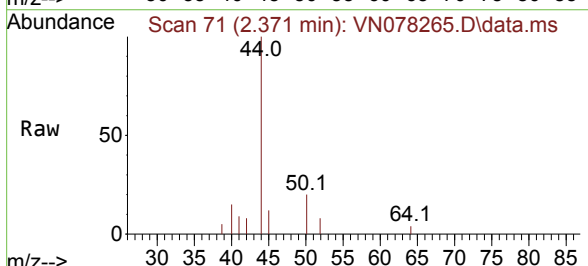
Acq: 16 Jun 2023 17:17

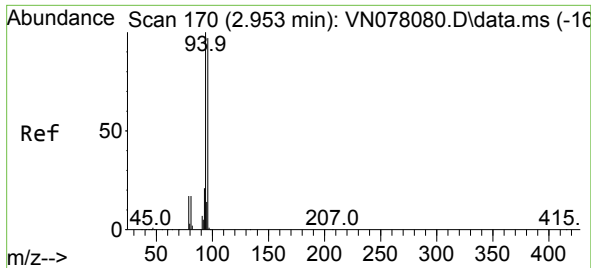
Tgt Ion: 50 Resp: 1071

Ion Ratio Lower Upper

50 100

52 41.9 26.5 39.7#

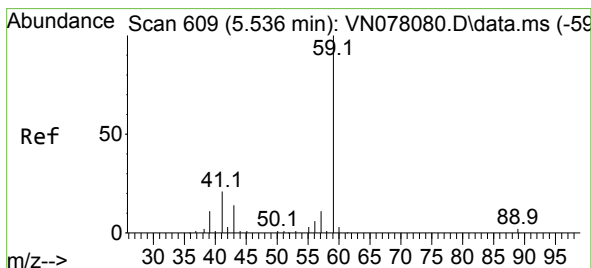
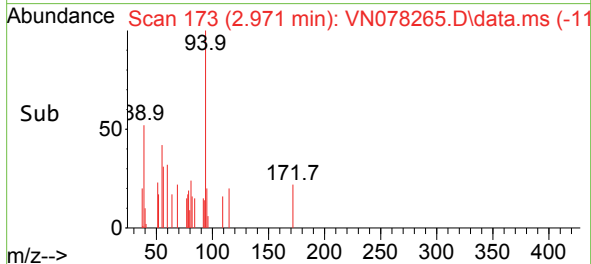
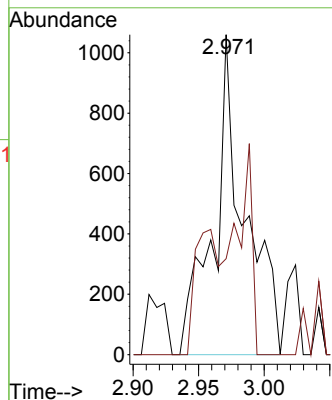
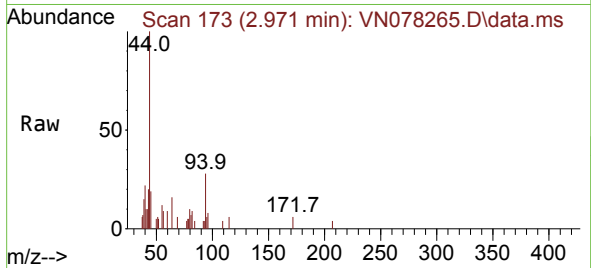




#5
Bromomethane
Concen: 0.344 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

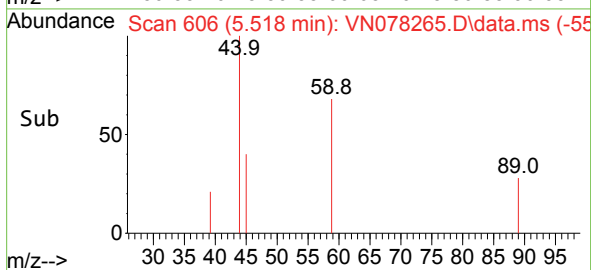
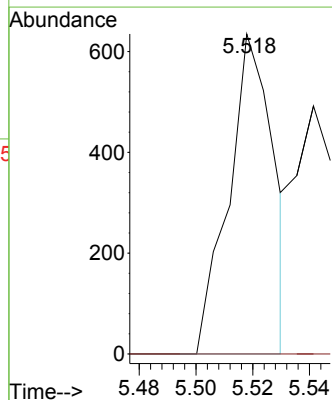
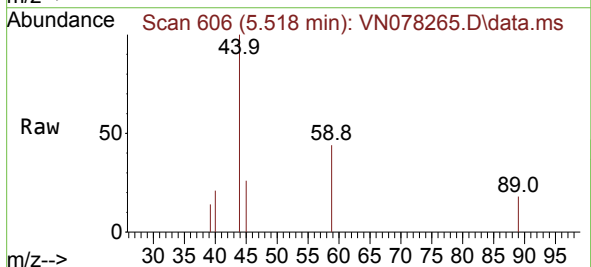
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

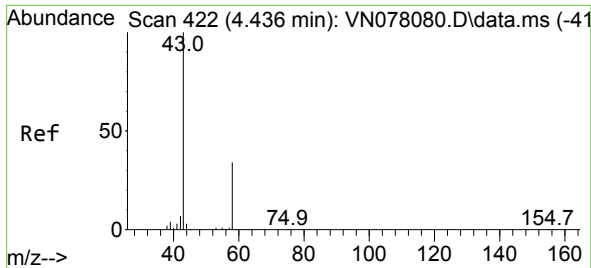
Tgt Ion: 94 Resp: 1718
Ion Ratio Lower Upper
94 100
96 30.0 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.850 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.018 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

Tgt Ion: 59 Resp: 698
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

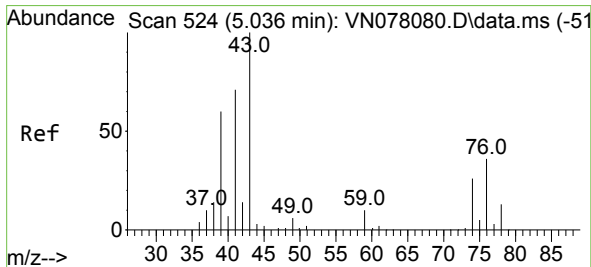
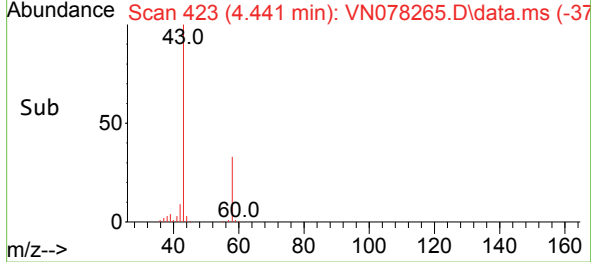
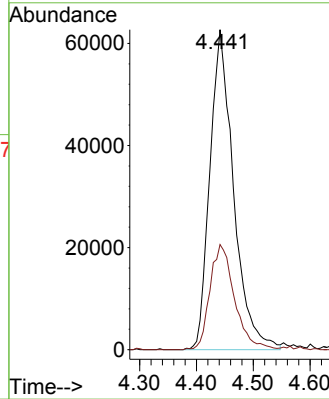
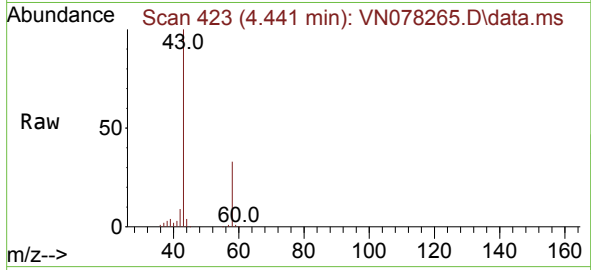




#16
Acetone
Concen: 105.983 ug/l
RT: 4.441 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

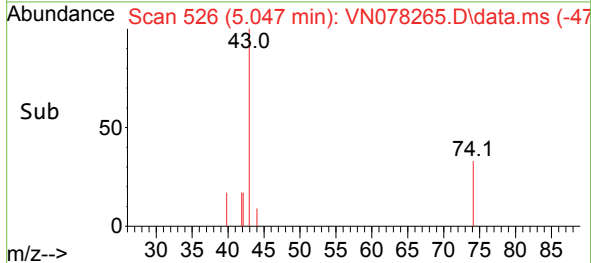
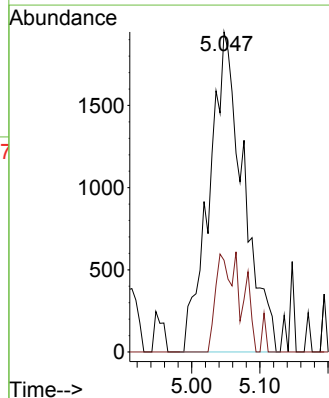
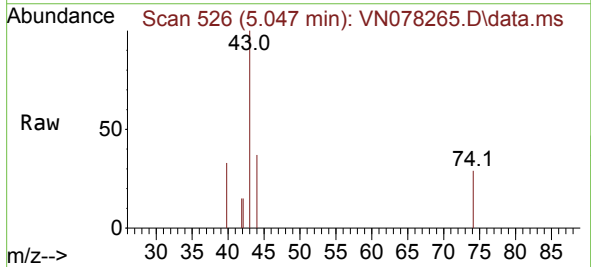
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

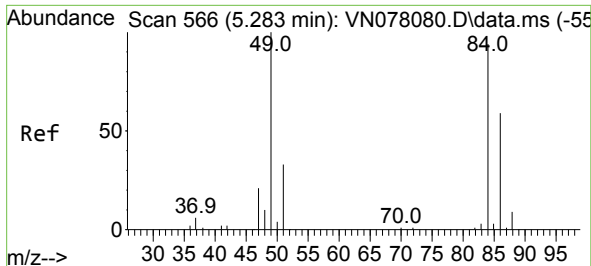
Tgt Ion: 43 Resp: 181338
Ion Ratio Lower Upper
43 100
58 32.9 28.0 42.0



#18
Methyl Acetate
Concen: 0.864 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

Tgt Ion: 43 Resp: 6805
Ion Ratio Lower Upper
43 100
74 22.7 26.2 39.4#

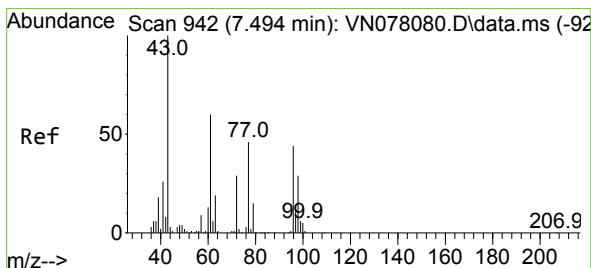
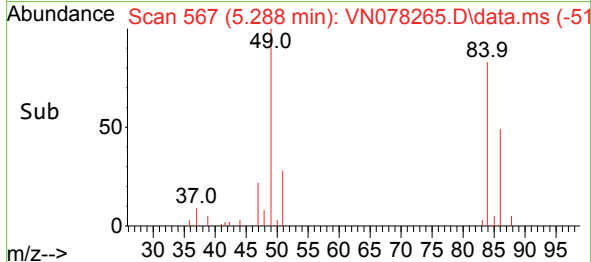
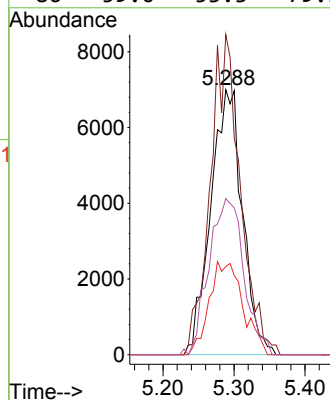
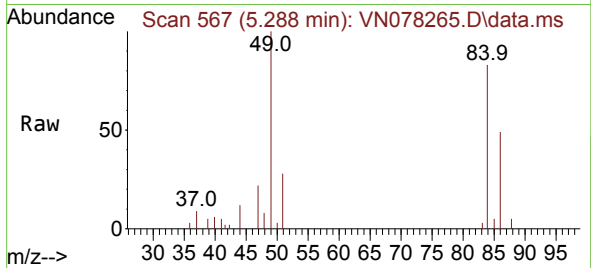




#20
Methylene Chloride
Concen: 3.843 ug/l
RT: 5.288 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

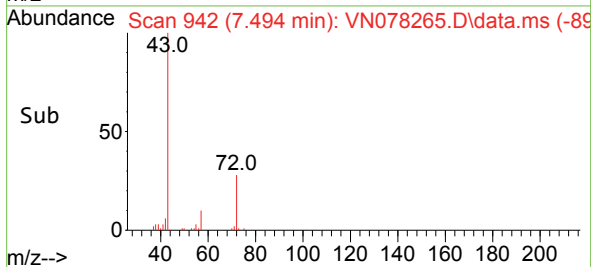
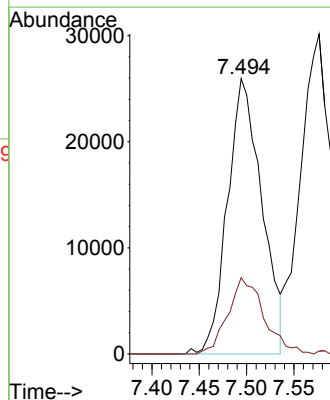
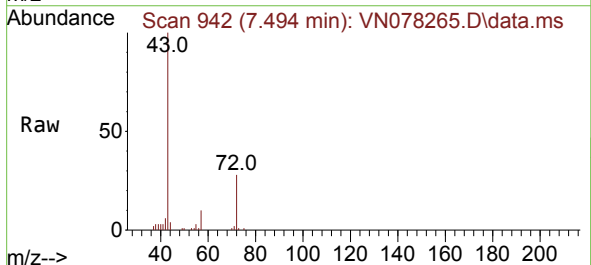
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

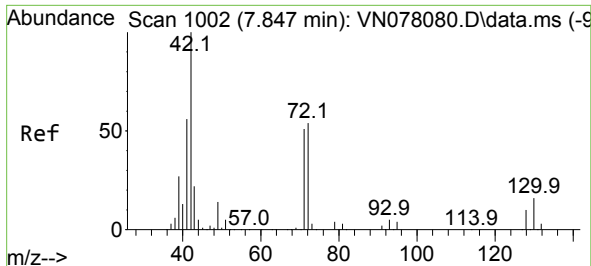
Tgt Ion:	84	Resp:	21727
Ion	Ratio	Lower	Upper
84	100		
49	120.8	79.7	119.5#
51	33.3	25.2	37.8
86	59.0	53.3	79.9



#25
2-Butanone
Concen: 24.917 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

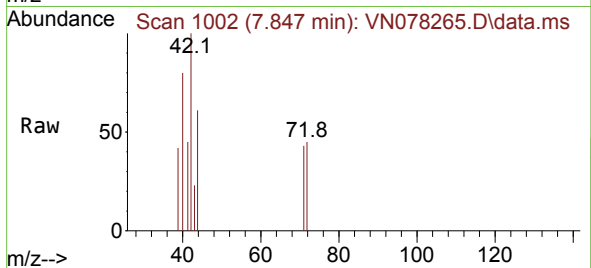
Tgt Ion:	43	Resp:	65562
Ion	Ratio	Lower	Upper
43	100		
72	27.7	30.2	45.2#



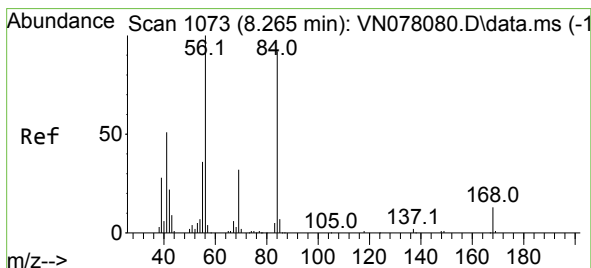
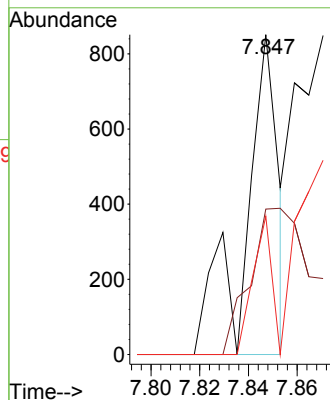
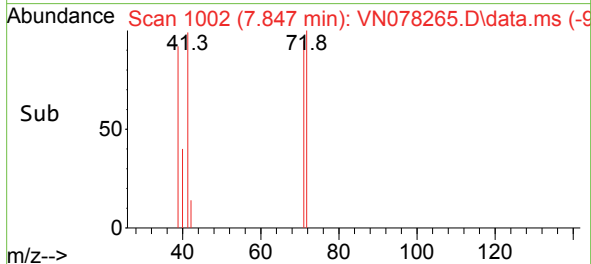


#29
Tetrahydrofuran
Concen: 0.463 ug/l
RT: 7.847 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

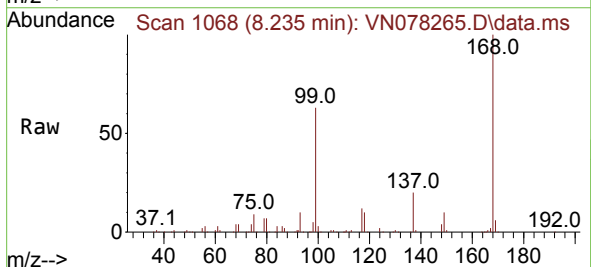
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615



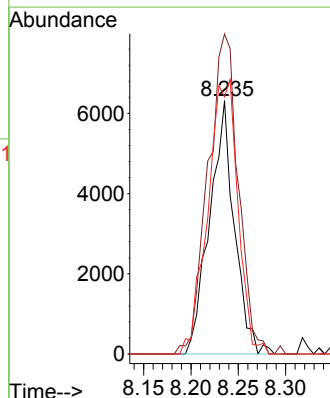
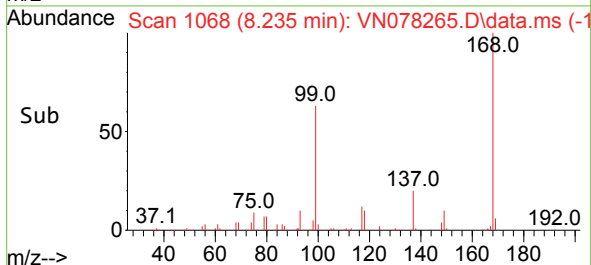
Tgt Ion: 42 Resp: 815
Ion Ratio Lower Upper
42 100
72 100.6 49.8 74.6#
71 24.3 47.4 71.2#

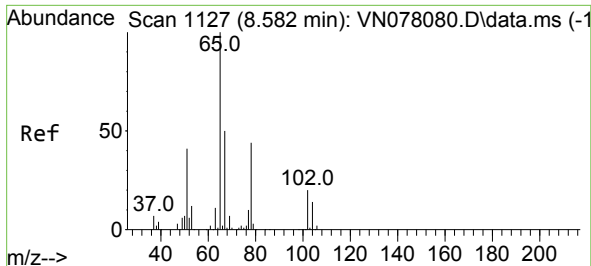


#31
Cyclohexane
Concen: 1.508 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17



Tgt Ion: 56 Resp: 11498
Ion Ratio Lower Upper
56 100
69 123.2 26.8 40.2#
84 101.5 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.965 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

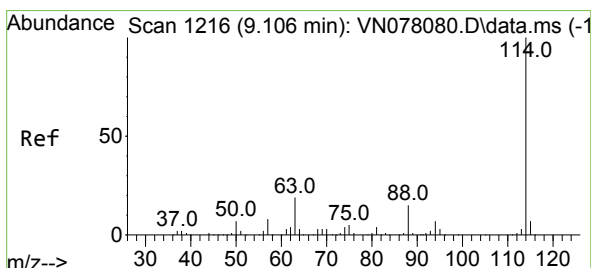
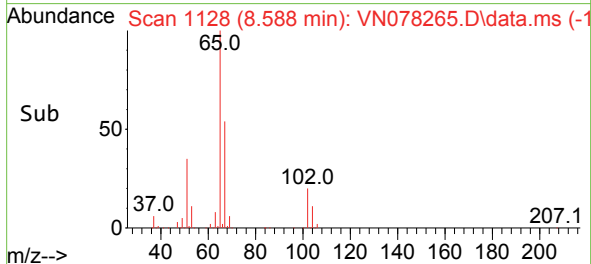
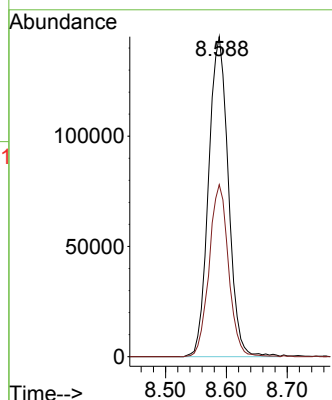
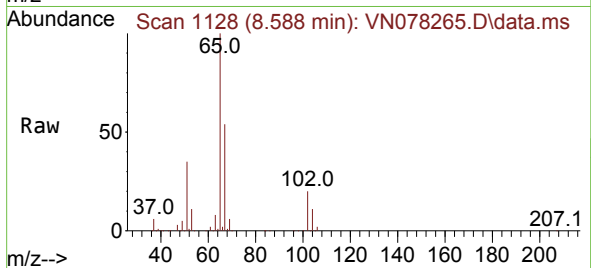
WS-SOIL3-0615

Tgt Ion: 65 Resp: 326731

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

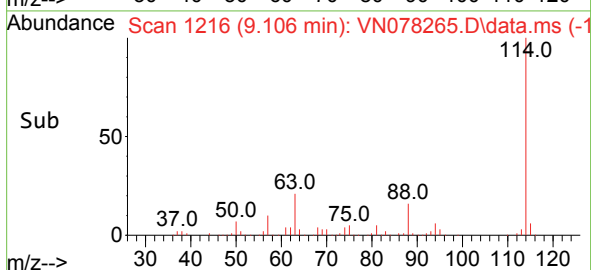
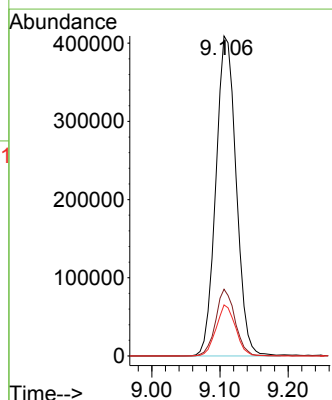
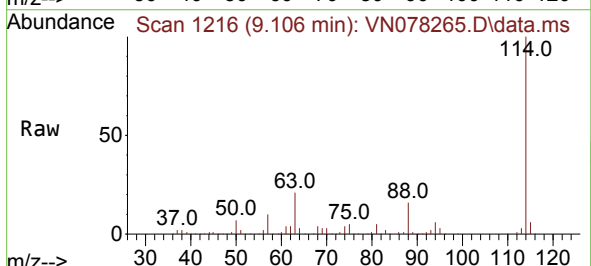
Tgt Ion: 114 Resp: 850077

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 16.0 0.0 30.6

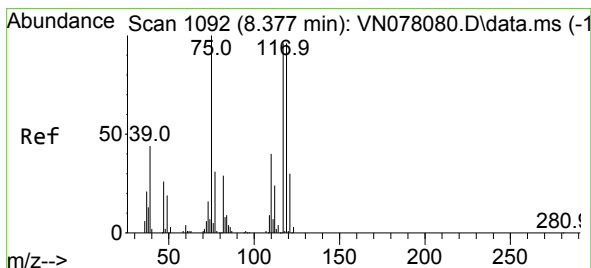
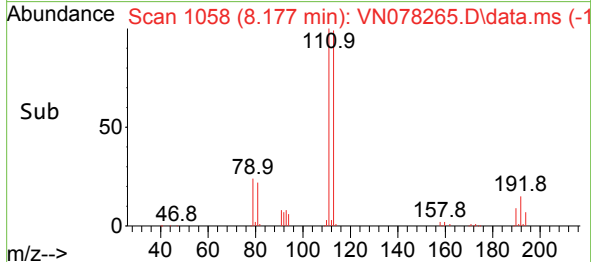
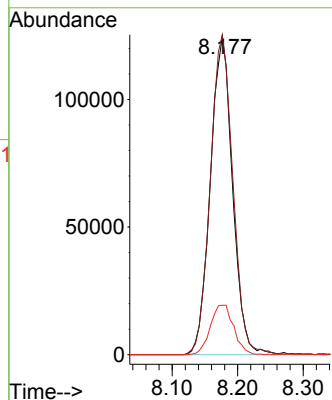
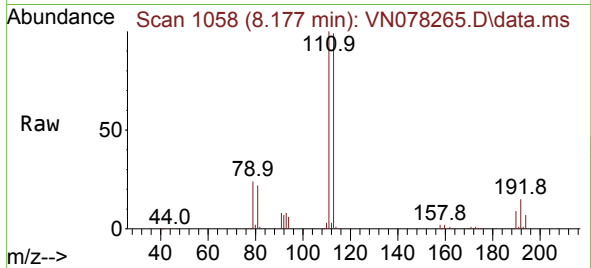




#35
Dibromofluoromethane
Concen: 54.354 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

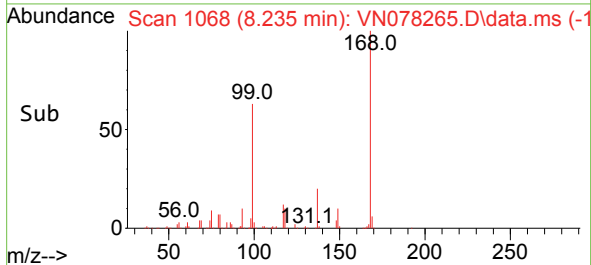
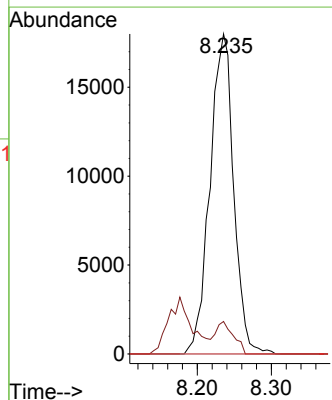
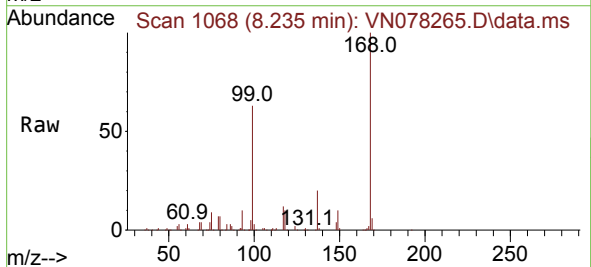
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

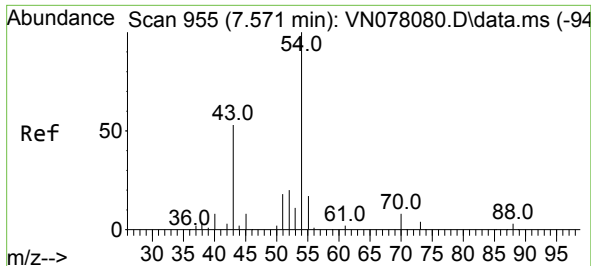
Tgt Ion:113 Resp: 292150
Ion Ratio Lower Upper
113 100
111 102.3 82.6 123.8
192 16.5 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.188 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

Tgt Ion: 75 Resp: 39998
Ion Ratio Lower Upper
75 100
110 7.5 19.1 57.3#
77 0.0 25.0 37.4#

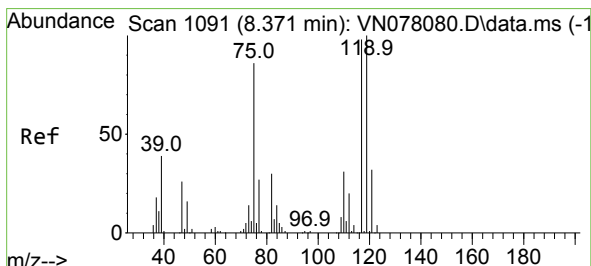
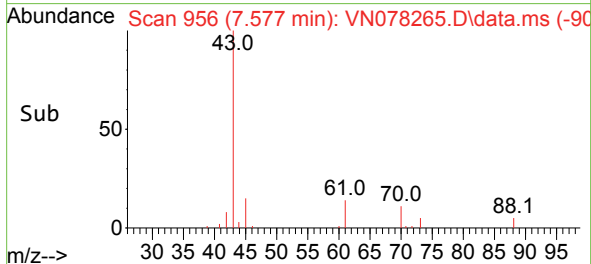
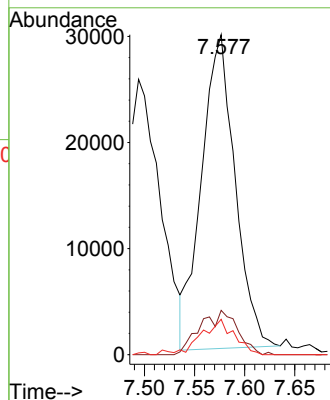
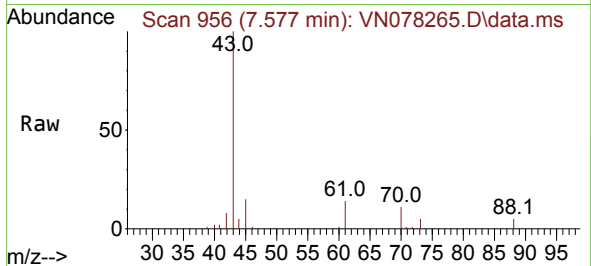




#37
Ethyl Acetate
Concen: 11.453 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

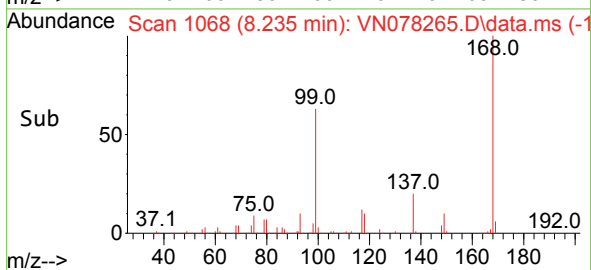
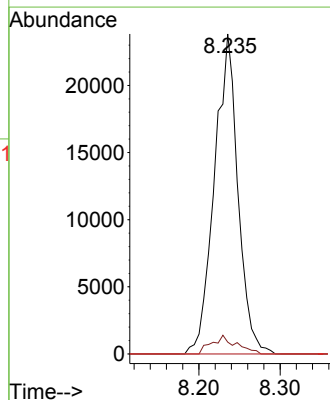
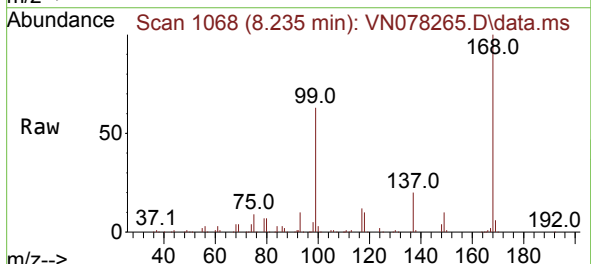
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

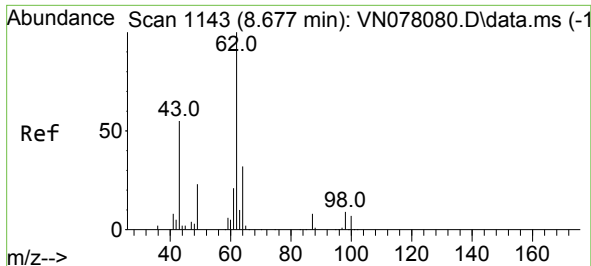
Tgt Ion: 43 Resp: 68981
Ion Ratio Lower Upper
43 100
61 8.2 13.2 19.8#
70 10.7 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.897 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

Tgt Ion: 117 Resp: 48002
Ion Ratio Lower Upper
117 100
119 3.7 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.203 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

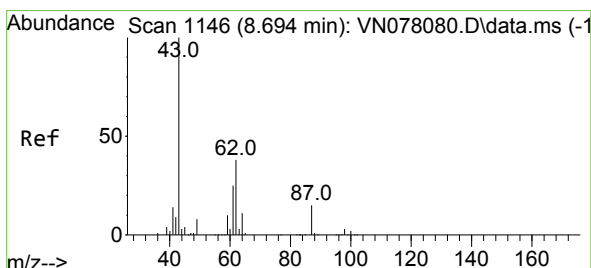
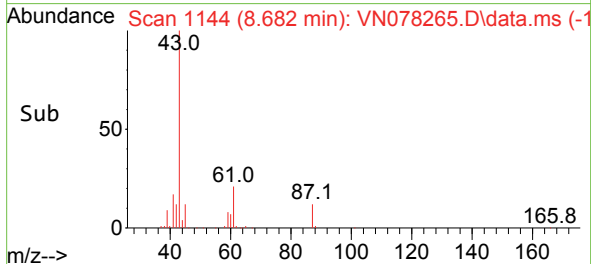
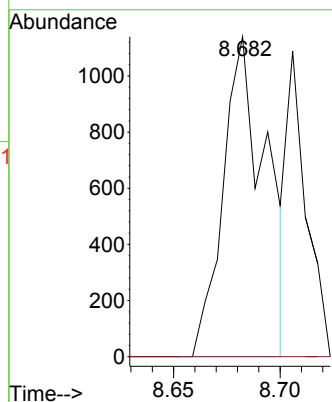
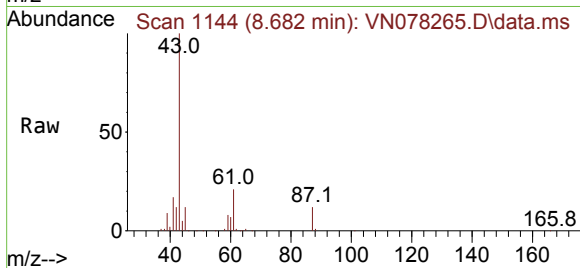
WS-SOIL3-0615

Tgt Ion: 62 Resp: 1599

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 30.710 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

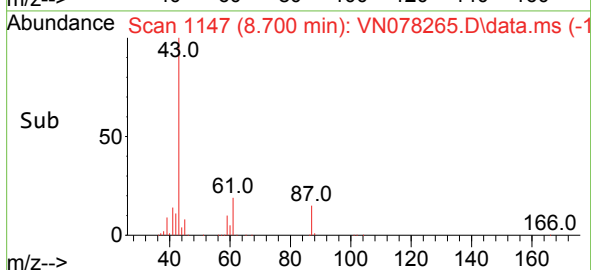
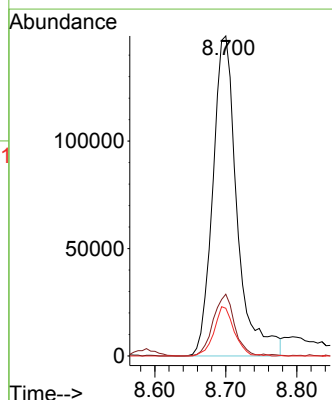
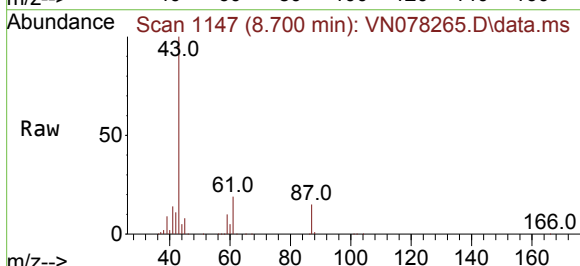
Tgt Ion: 43 Resp: 353733

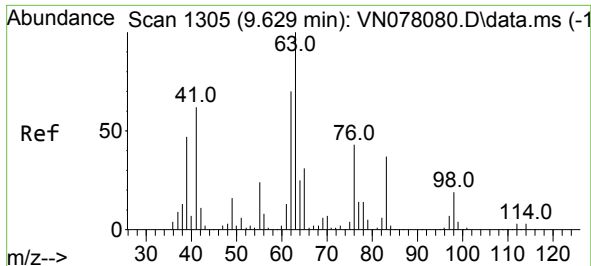
Ion Ratio Lower Upper

43 100

61 16.9 24.7 37.1#

87 12.8 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.636 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.118 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

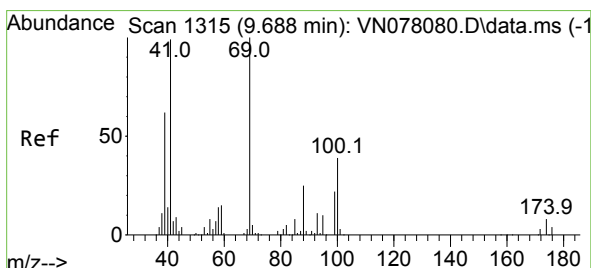
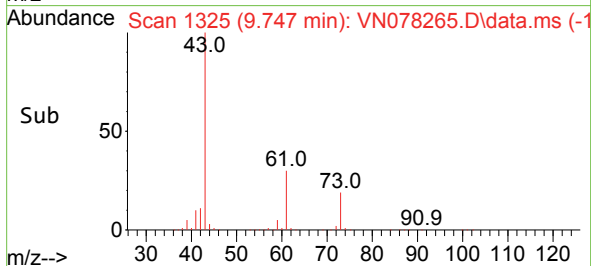
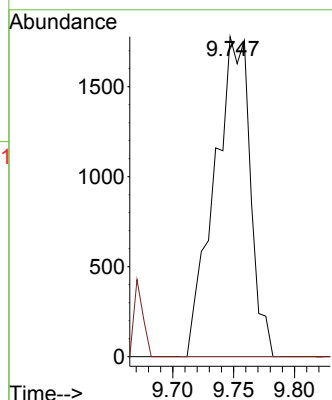
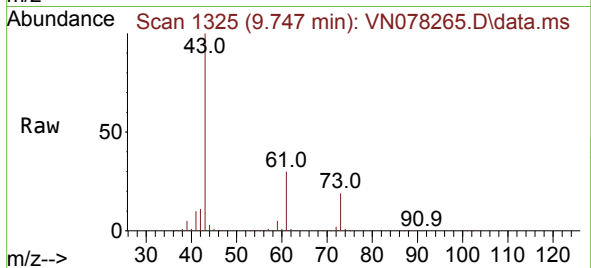
WS-SOIL3-0615

Tgt Ion: 63 Resp: 3640

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.822 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.018 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

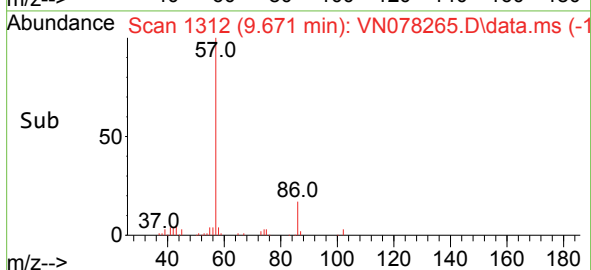
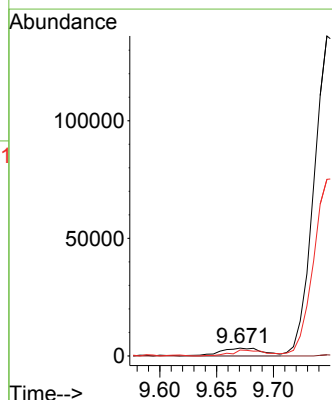
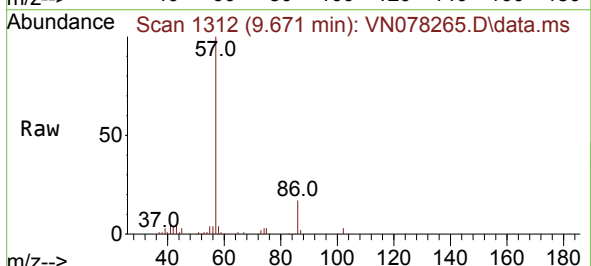
Tgt Ion: 41 Resp: 8809

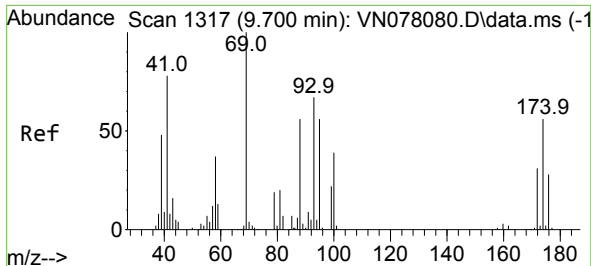
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 61.5 54.6 81.8





#49

1,4-Dioxane

Concen: 0.778 ug/l

RT: 9.659 min Scan# 1317

Delta R.T. -0.041 min

Lab File: VN078265.D

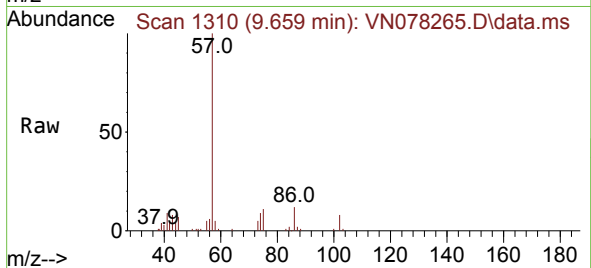
Acq: 16 Jun 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

WS-SOIL3-0615



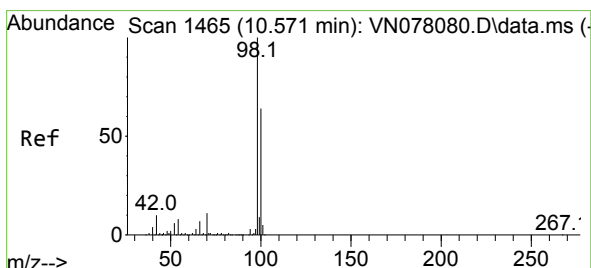
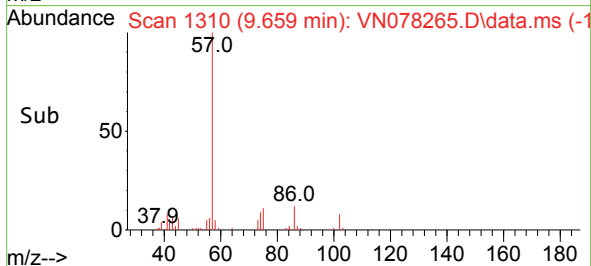
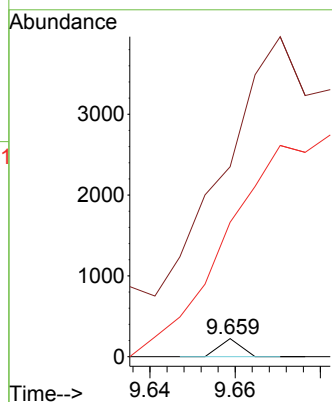
Tgt Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 50.200 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078265.D

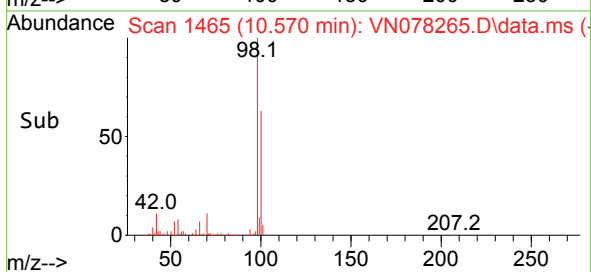
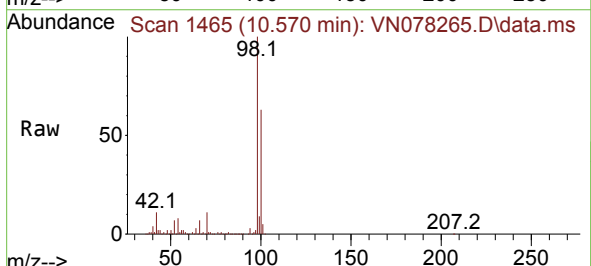
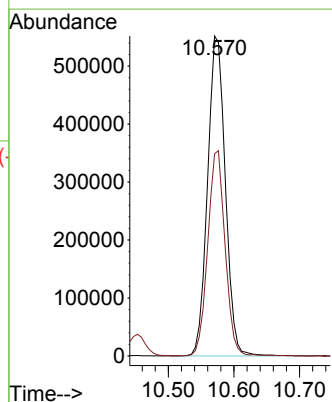
Acq: 16 Jun 2023 17:17

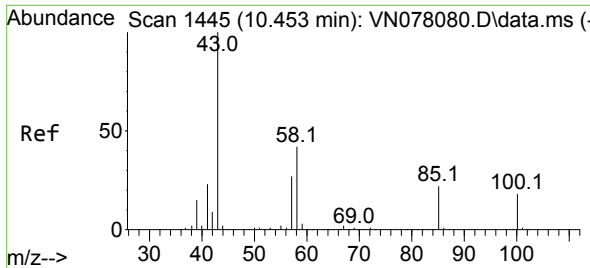
Tgt Ion: 98 Resp: 1040197

Ion Ratio Lower Upper

98 100

100 62.6 52.0 78.0

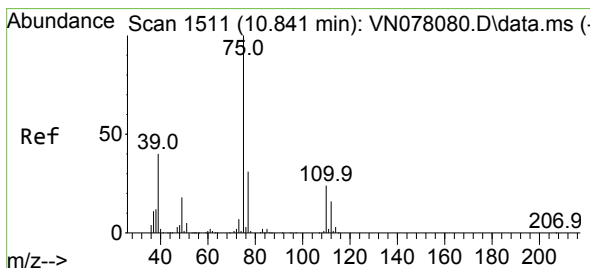
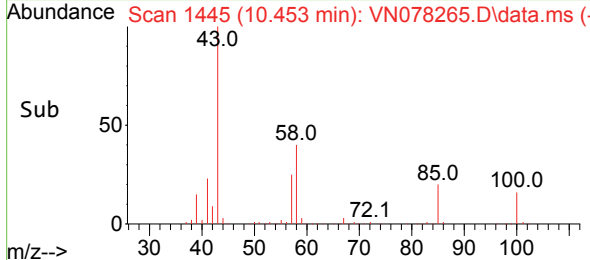
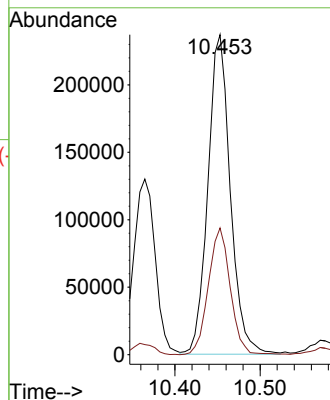
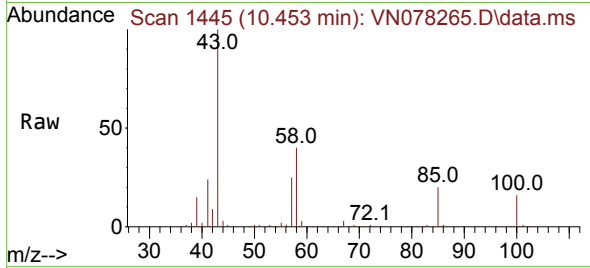




#51
4-Methyl-2-Pentanone
Concen: 71.470 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

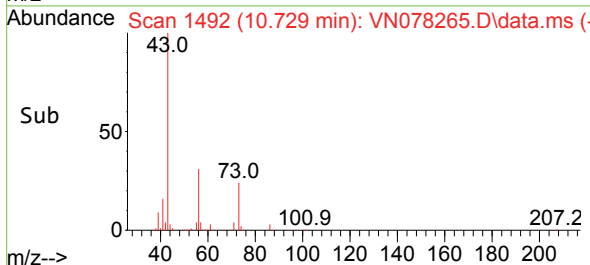
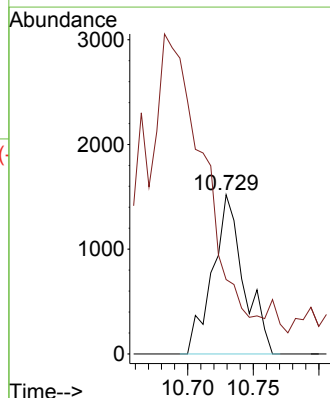
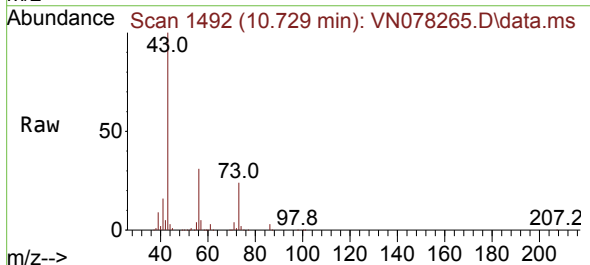
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

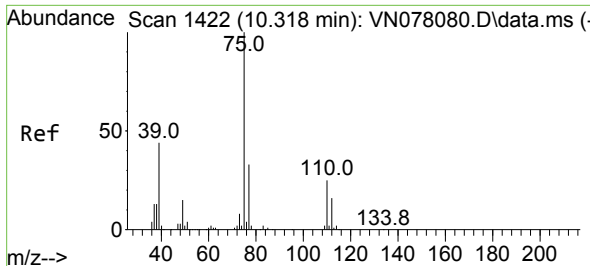
Tgt Ion: 43 Resp: 433496
Ion Ratio Lower Upper
43 100
58 38.8 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.307 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

Tgt Ion: 75 Resp: 2509
Ion Ratio Lower Upper
75 100
77 28.0 25.4 38.0

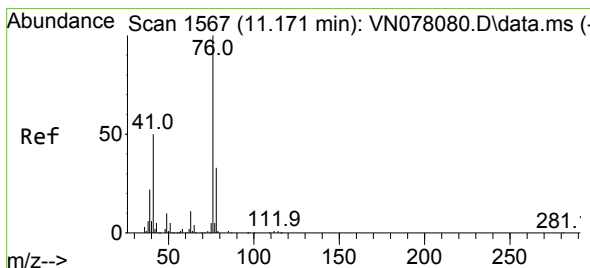
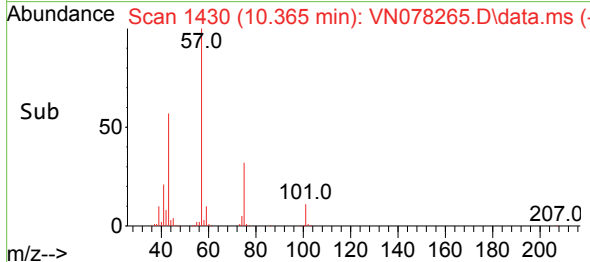
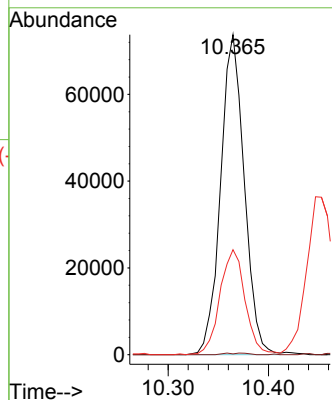
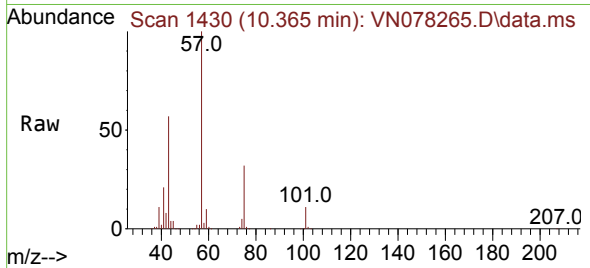




#54
 cis-1,3-Dichloropropene
 Concen: 13.391 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078265.D
 Acq: 16 Jun 2023 17:17

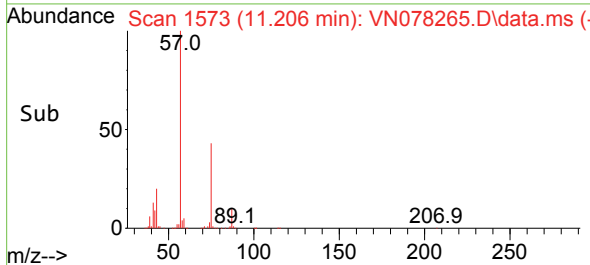
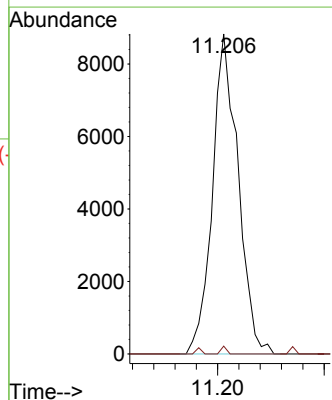
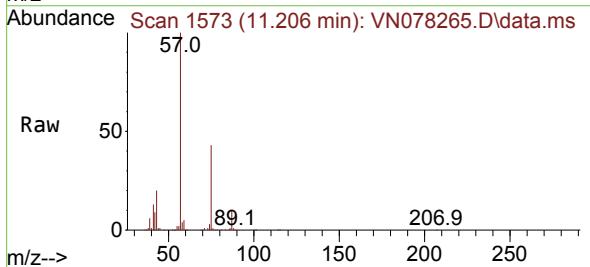
Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL3-0615

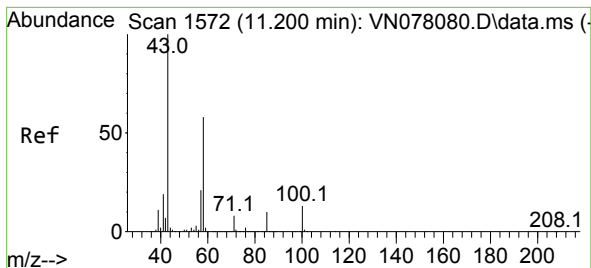
Tgt Ion: 75 Resp: 120787
 Ion Ratio Lower Upper
 75 100
 77 0.2 26.1 39.1#
 39 32.6 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.586 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.035 min
 Lab File: VN078265.D
 Acq: 16 Jun 2023 17:17

Tgt Ion: 76 Resp: 14717
 Ion Ratio Lower Upper
 76 100
 78 0.5 26.1 39.1#

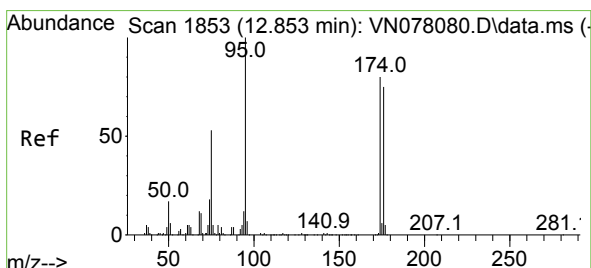
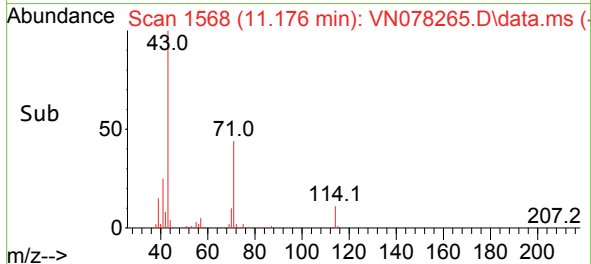
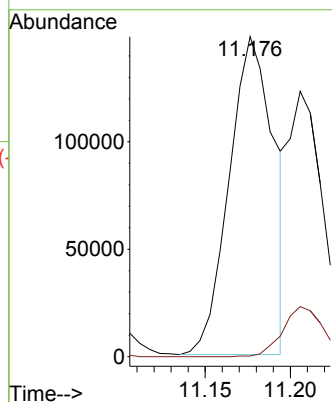
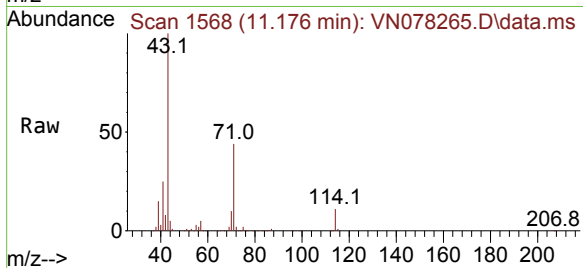




#59
2-Hexanone
Concen: 63.885 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.024 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

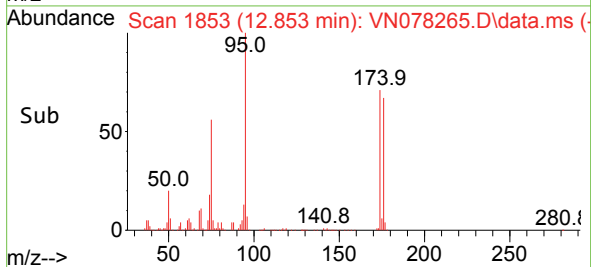
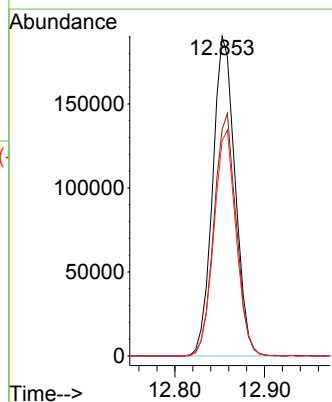
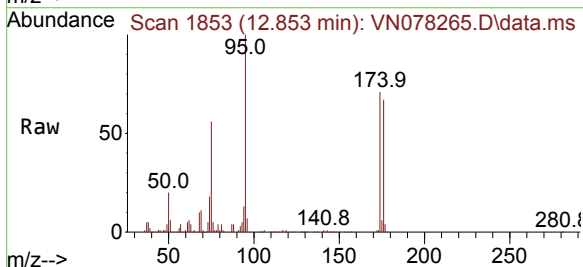
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

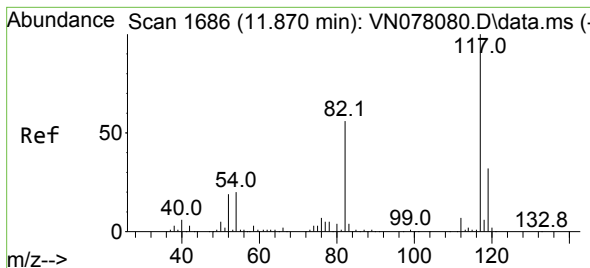
Tgt Ion: 43 Resp: 269807
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.177 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

Tgt Ion: 95 Resp: 329660
Ion Ratio Lower Upper
95 100
174 75.3 0.0 143.8
176 70.3 0.0 135.8

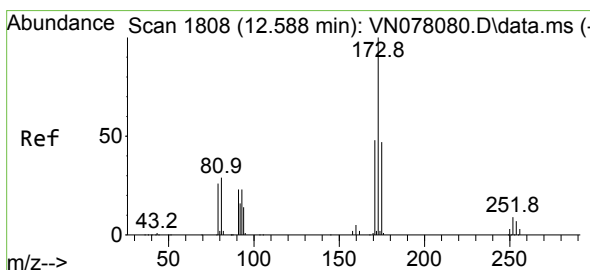
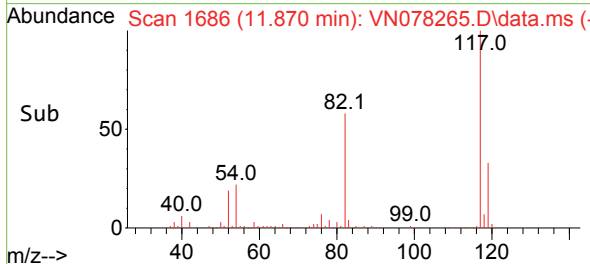
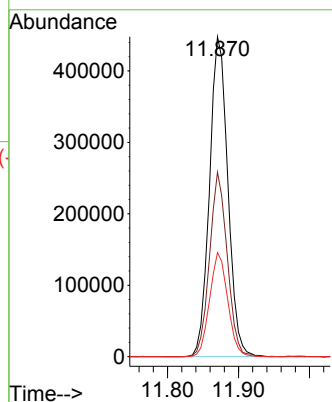
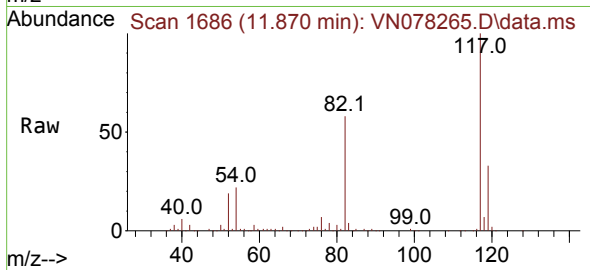




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

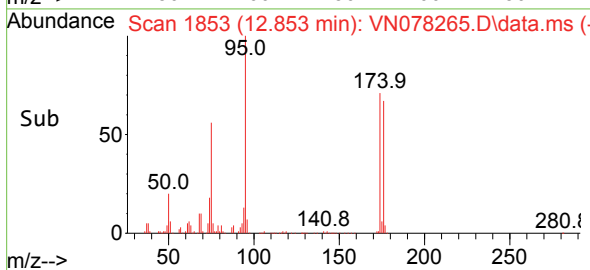
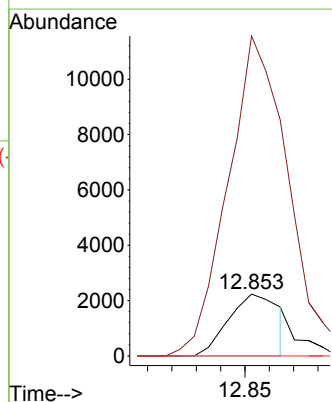
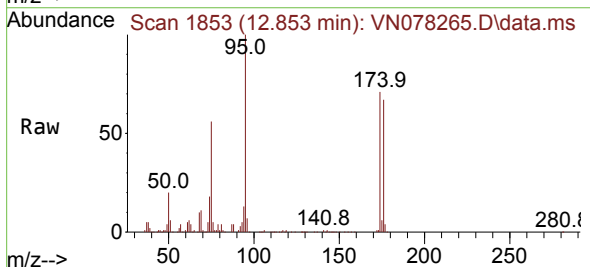
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

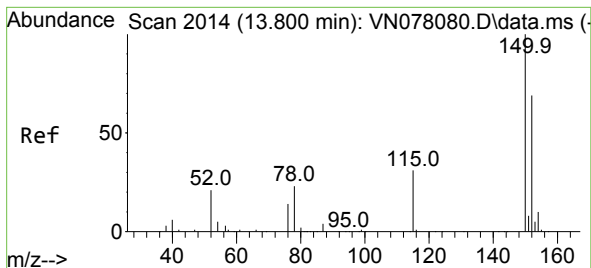
Tgt Ion:117 Resp: 803693
Ion Ratio Lower Upper
117 100
82 57.7 44.0 66.0
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.790 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.265 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

Tgt Ion:173 Resp: 3226
Ion Ratio Lower Upper
173 100
175 516.0 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

WS-SOIL3-0615

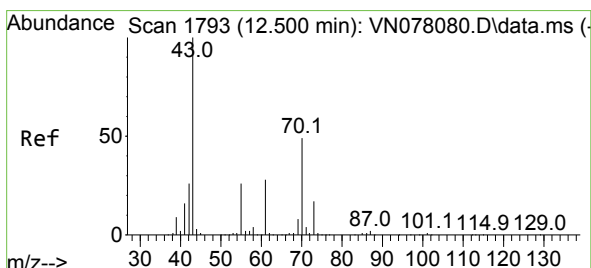
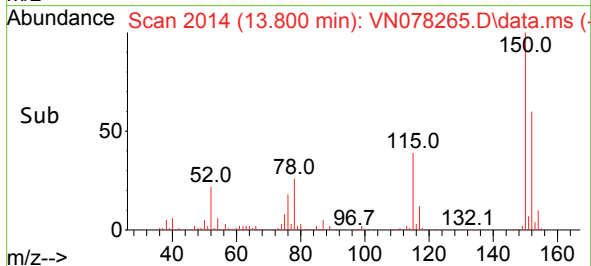
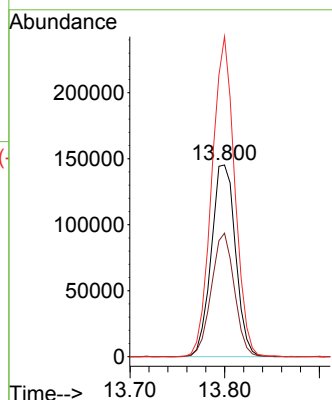
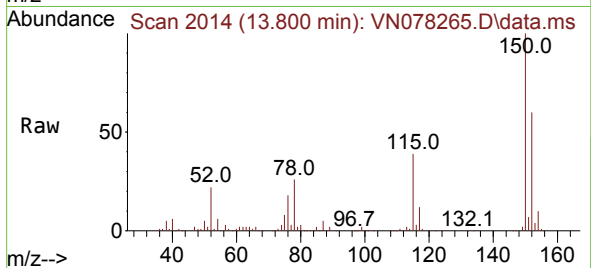
Tgt Ion:152 Resp: 258184

Ion Ratio Lower Upper

152 100

115 61.3 32.3 96.8

150 157.6 0.0 355.8



#74

N-ethyl acetate

Concen: 0.468 ug/l

RT: 12.500 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VN078265.D

Acq: 16 Jun 2023 17:17

Tgt Ion: 43 Resp: 3764

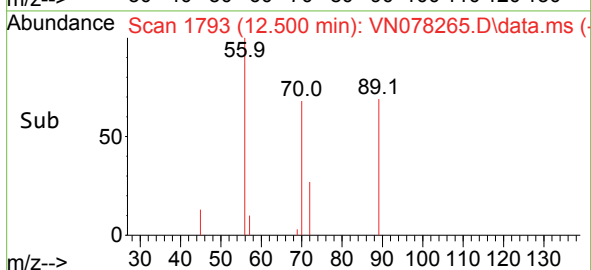
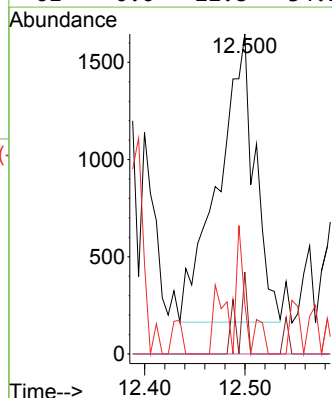
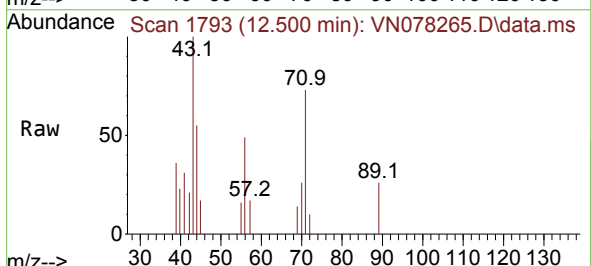
Ion Ratio Lower Upper

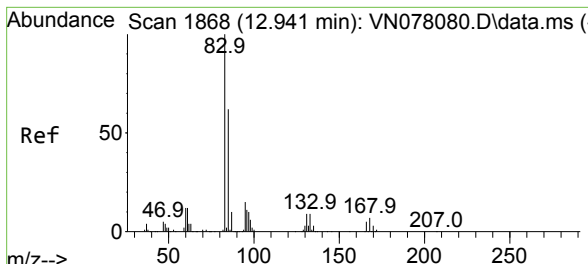
43 100

70 6.6 43.4 65.2#

55 8.6 21.4 32.0#

61 0.0 22.8 34.2#

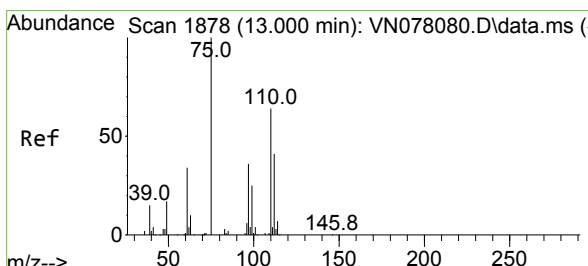
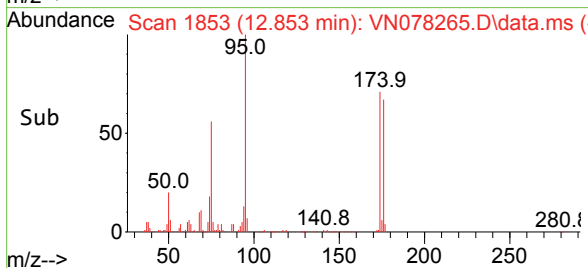
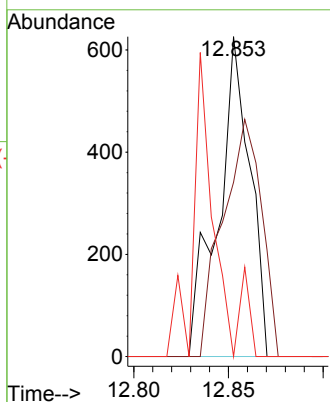
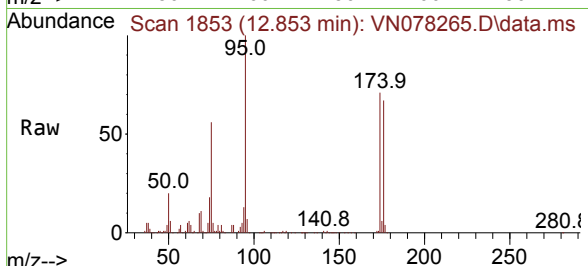




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.853 min Scan# 1853
Delta R.T. -0.088 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

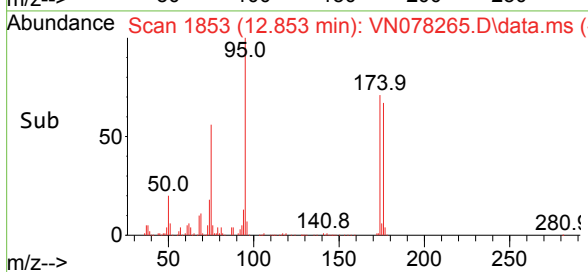
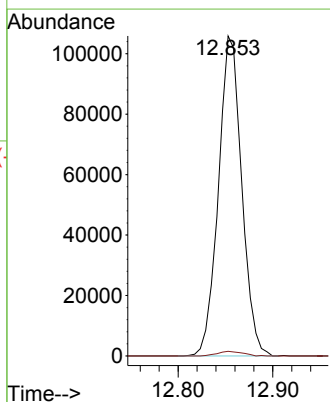
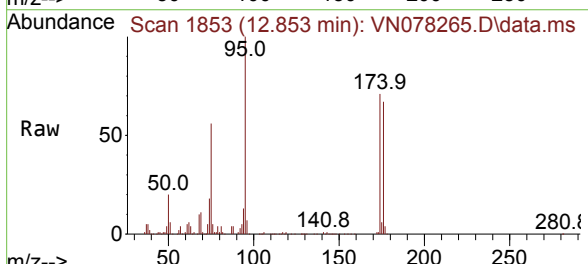
Instrument :
MSVOA_N
ClientSampleId :
WS-SOIL3-0615

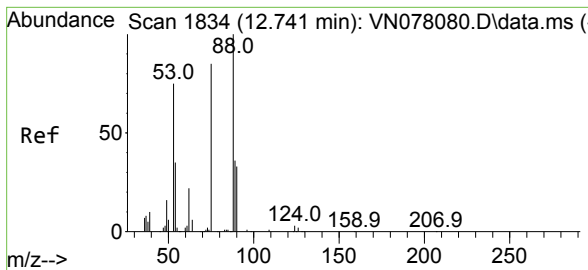
Tgt Ion: 83 Resp: 735
Ion Ratio Lower Upper
83 100
131 89.7 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 29.665 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078265.D
Acq: 16 Jun 2023 17:17

Tgt Ion: 75 Resp: 181060
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.139 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN078265.D
 Acq: 16 Jun 2023 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 WS-SOIL3-0615

Tgt Ion: 75 Resp: 181060
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

