

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061423\
 Data File : VN078205.D
 Acq On : 14 Jun 2023 14:56
 Operator : JC\MD
 Sample : 03164-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-001

Quant Time: Jun 15 02:44:27 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)

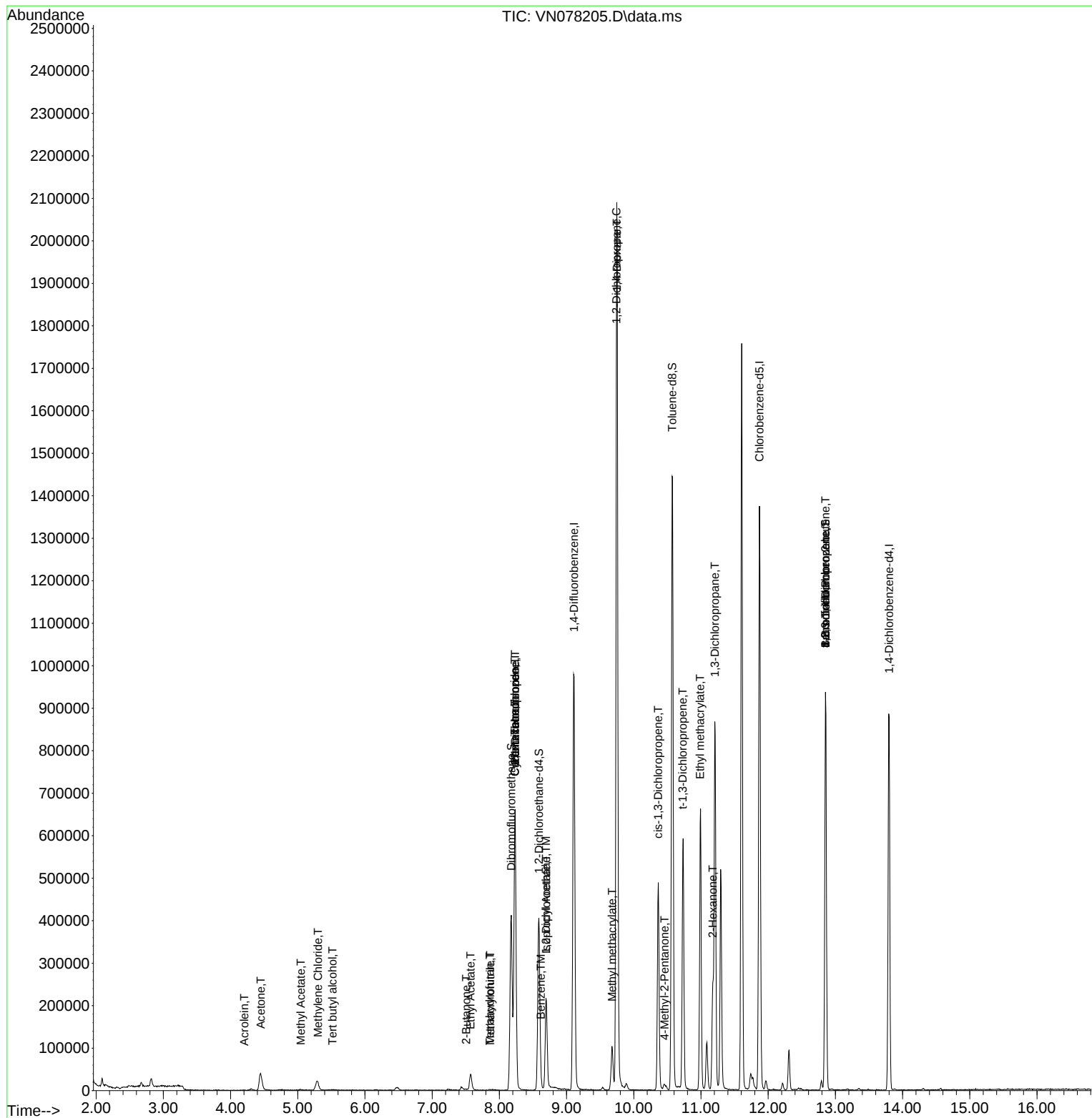
Internal Standards						
1) Pentafluorobenzene	8.235	168	466498	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	870650	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	803326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	239976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	334939	53.850	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.700%			
35) Dibromofluoromethane	8.177	113	297122	53.973	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.940%			
50) Toluene-d8	10.571	98	1043706	49.180	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.360%			
62) 4-Bromofluorobenzene	12.853	95	328389	49.775	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.540%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1025	Below Cal	#	42
11) Tert butyl alcohol	5.518	59	649	0.756	ug/l #	72
13) Acrolein	4.206	56	499	0.527	ug/l #	48
16) Acetone	4.447	43	75098	41.947	ug/l #	86
18) Methyl Acetate	5.047	43	2253	0.273	ug/l #	72
20) Methylene Chloride	5.300	84	17597	2.974	ug/l #	84
25) 2-Butanone	7.506	43	3204	1.164	ug/l #	78
29) Tetrahydrofuran	7.859	42	821	0.446	ug/l #	50
31) Cyclohexane	8.230	56	10798	1.353	ug/l #	27
36) 1,1-Dichloropropene	8.235	75	38537	4.880	ug/l #	49
37) Ethyl Acetate	7.571	43	56207	9.112	ug/l	97
38) Carbon Tetrachloride	8.230	117	52824	6.336	ug/l #	14
40) Benzene	8.618	78	4884	0.207	ug/l #	82
41) Methacrylonitrile	7.865	41	872	0.261	ug/l #	19
42) 1,2-Dichloroethane	8.694	62	2132	0.264	ug/l #	73
43) Isopropyl Acetate	8.694	43	242499	20.556	ug/l #	84
45) 1,2-Dichloropropane	9.741	63	2702	0.461	ug/l #	45
48) Methyl methacrylate	9.677	41	5857	1.183	ug/l #	35
49) 1,4-Dioxane	9.747	88	250	2.403	ug/l #	1
51) 4-Methyl-2-Pentanone	10.459	43	15767	2.538	ug/l #	65
53) t-1,3-Dichloropropene	10.729	75	1805	0.216	ug/l #	54
54) cis-1,3-Dichloropropene	10.365	75	89263	9.662	ug/l #	68
56) Ethyl methacrylate	10.988	69	2441	0.298	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9157	0.964	ug/l #	43
59) 2-Hexanone	11.176	43	186578	43.134	ug/l #	19
71) Bromoform	12.853	173	2826	0.692	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.847	83	486	Below Cal	#	3
76) 1,2,3-Trichloropropane	12.853	75	176217	31.062	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	176217	95.431	ug/l #	15

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

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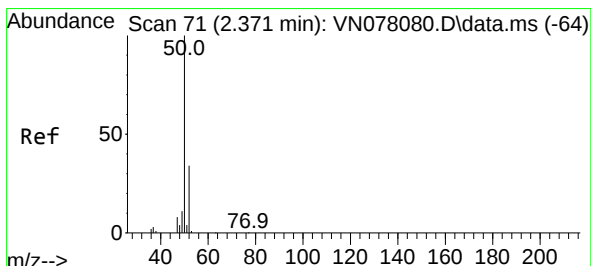
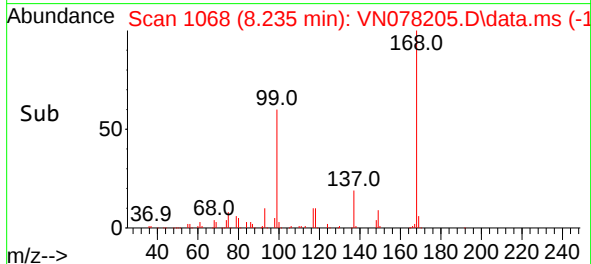
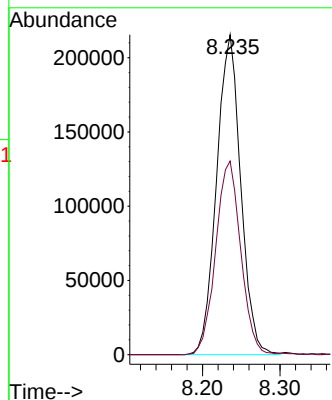
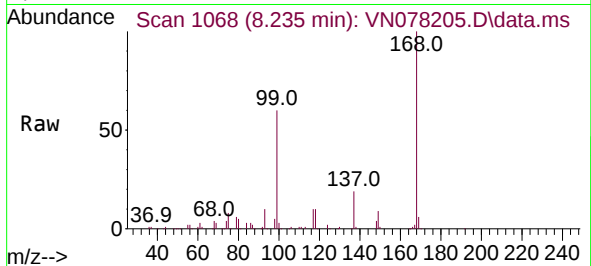




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

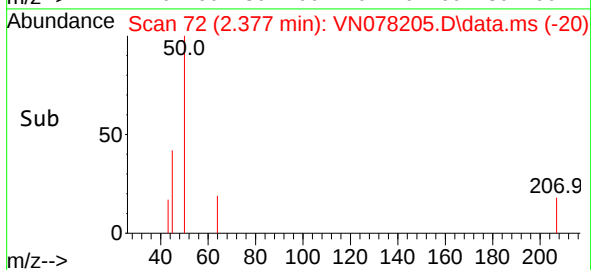
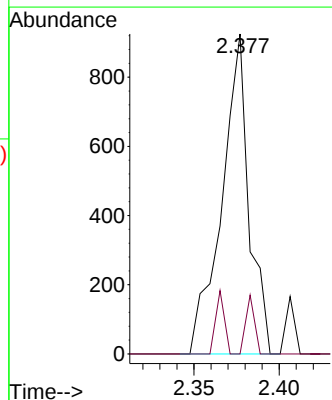
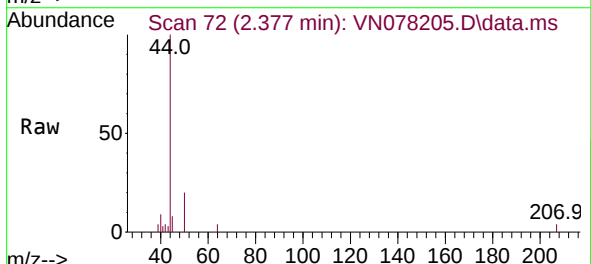
Instrument :
MSVOA_N
ClientSampleId :
SOIL-001

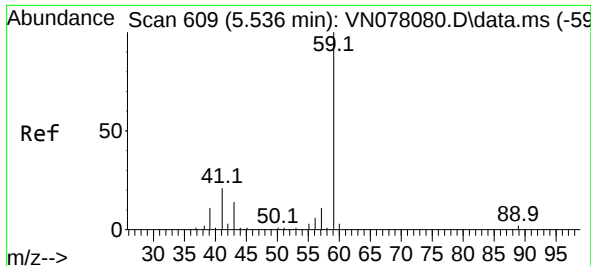
Tgt Ion:168 Resp: 466498
Ion Ratio Lower Upper
168 100
99 60.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion: 50 Resp: 1025
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

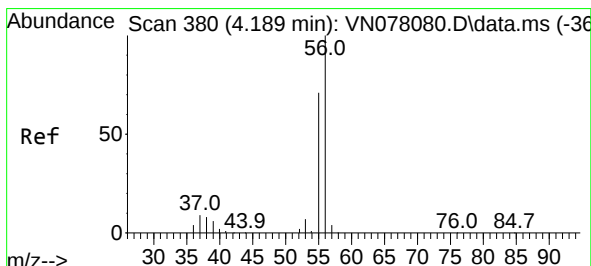
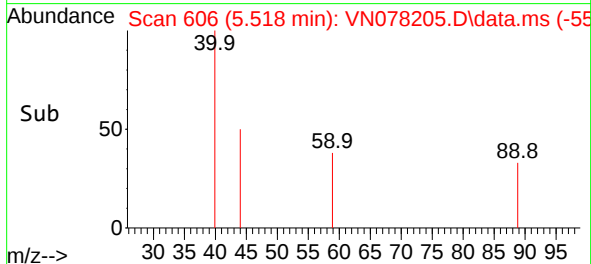
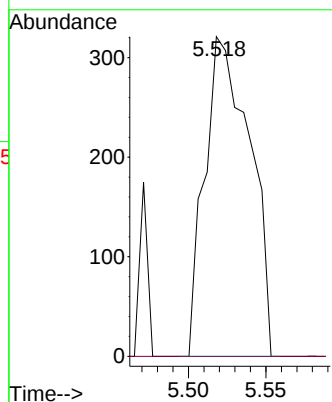
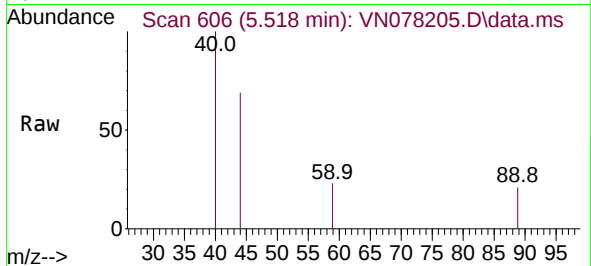




#11
Tert butyl alcohol
Concen: 0.756 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

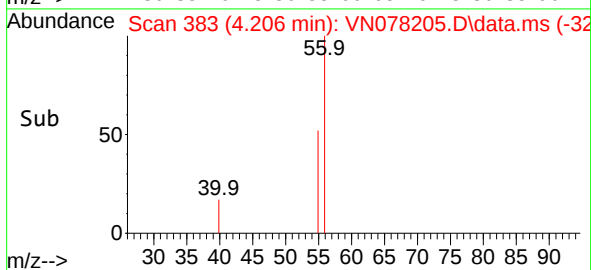
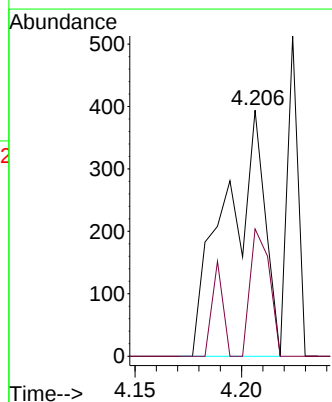
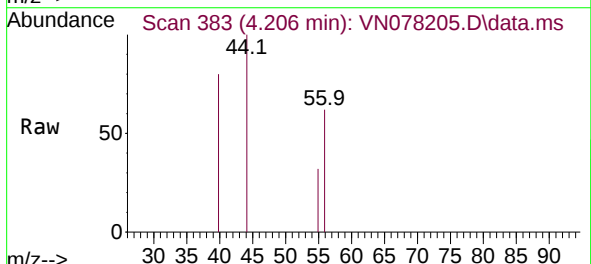
Instrument :
MSVOA_N
ClientSampleId :
SOIL-001

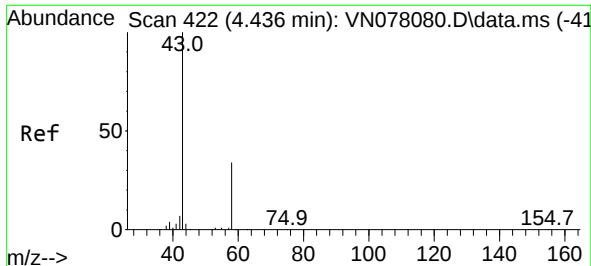
Tgt Ion: 59 Resp: 649
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.527 ug/l
RT: 4.206 min Scan# 383
Delta R.T. 0.018 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion: 56 Resp: 499
Ion Ratio Lower Upper
56 100
55 25.7 54.5 81.7#

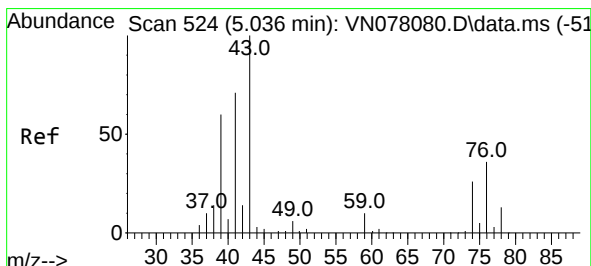
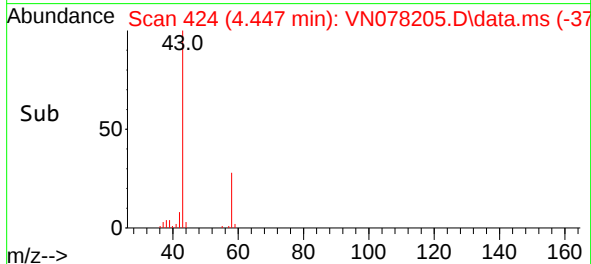
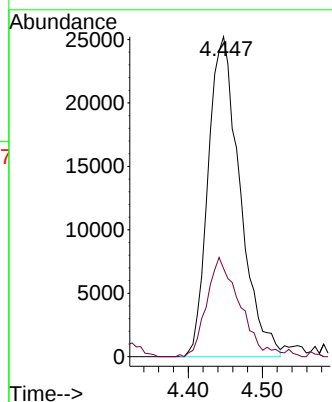
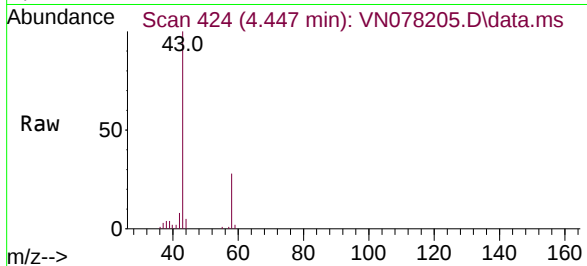




#16
Acetone
Concen: 41.947 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

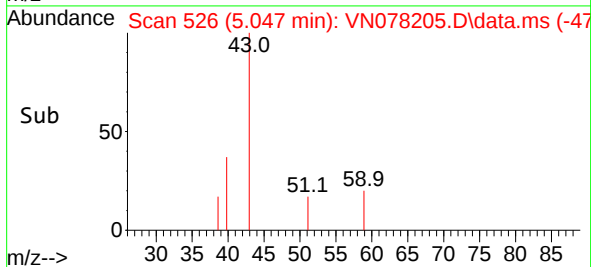
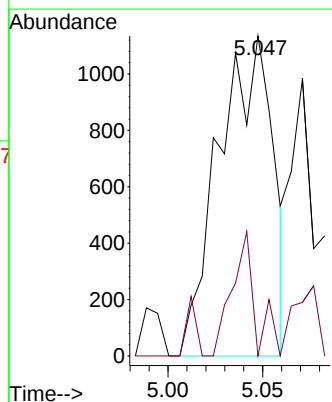
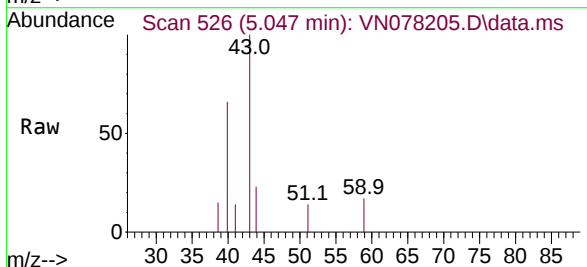
Instrument :
MSVOA_N
ClientSampleId :
SOIL-001

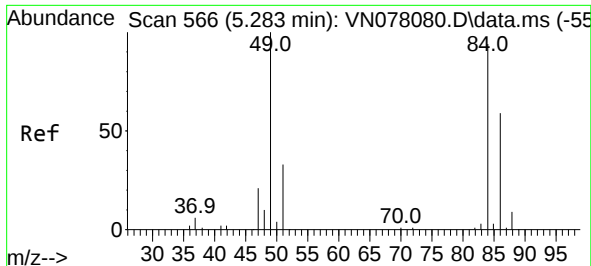
Tgt Ion: 43 Resp: 75098
Ion Ratio Lower Upper
43 100
58 26.9 28.0 42.0#



#18
Methyl Acetate
Concen: 0.273 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion: 43 Resp: 2253
Ion Ratio Lower Upper
43 100
74 16.9 26.2 39.4#

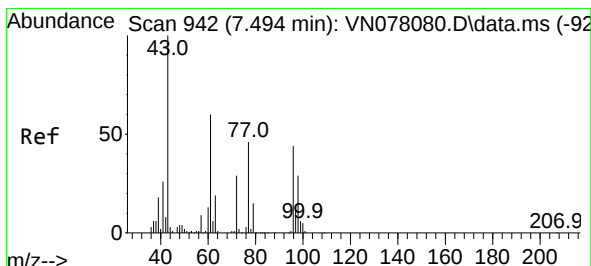
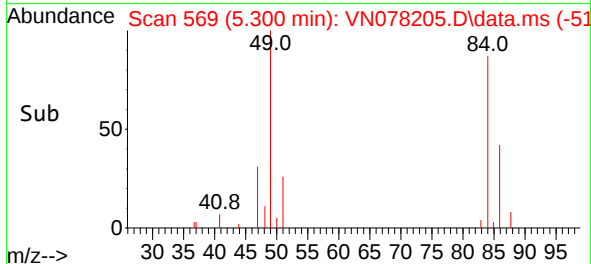
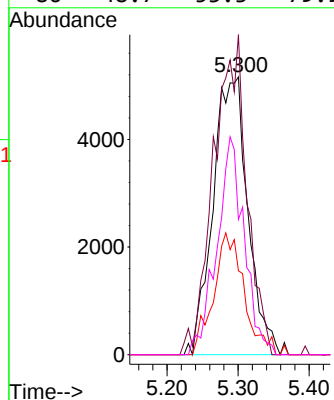
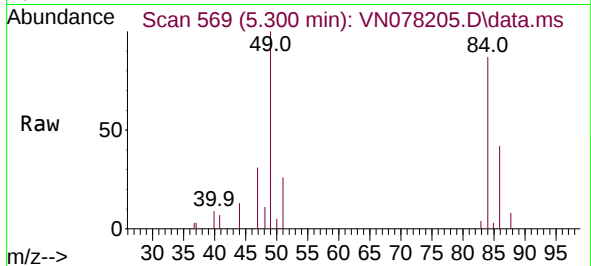




#20
Methylene Chloride
Concen: 2.974 ug/l
RT: 5.300 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

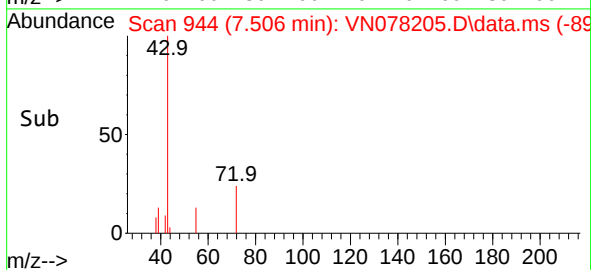
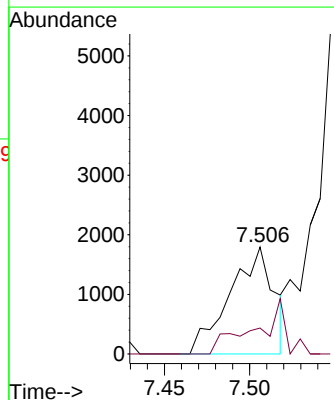
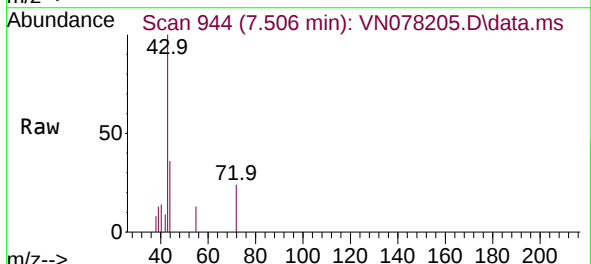
Instrument :
MSVOA_N
ClientSampleId :
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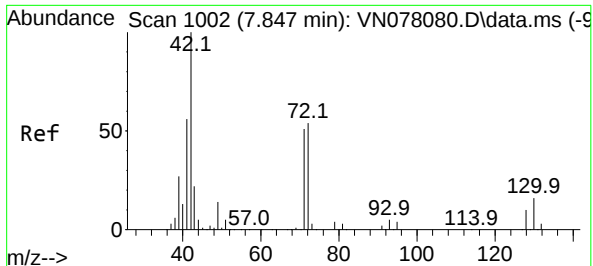
Tgt Ion:	84	Resp:	17597
Ion	Ratio	Lower	Upper
84	100		
49	115.2	79.7	119.5
51	30.2	25.2	37.8
86	48.7	53.3	79.9



#25
2-Butanone
Concen: 1.164 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion:	43	Resp:	3204
Ion	Ratio	Lower	Upper
43	100		
72	24.2	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.446 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.012 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

SOIL-001

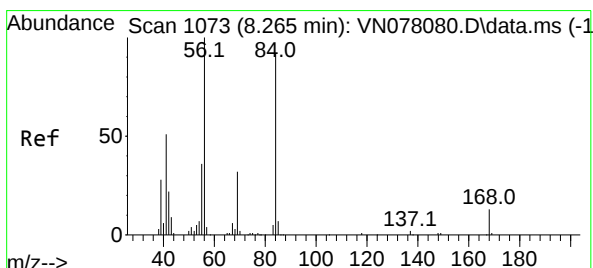
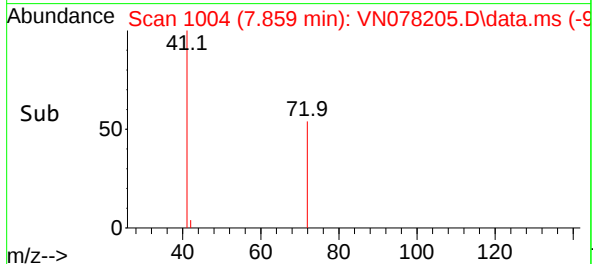
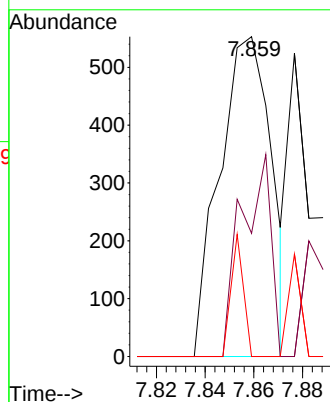
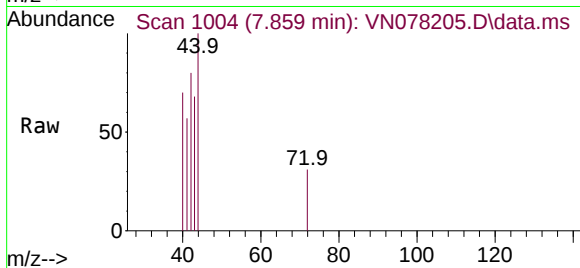
Tgt Ion: 42 Resp: 821

Ion Ratio Lower Upper

42 100

72 35.8 49.8 74.6#

71 9.0 47.4 71.2#



#31

Cyclohexane

Concen: 1.353 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

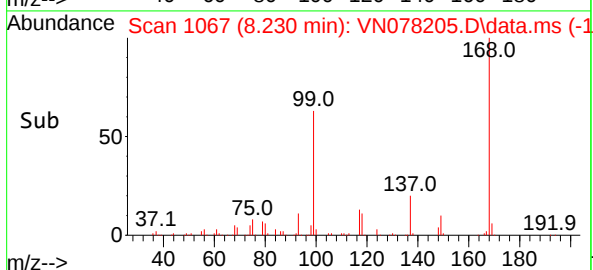
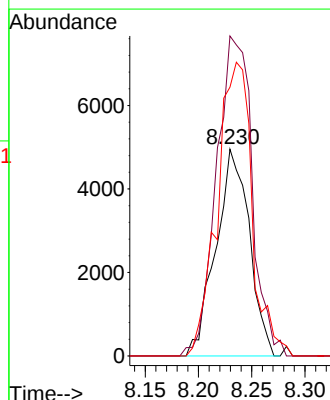
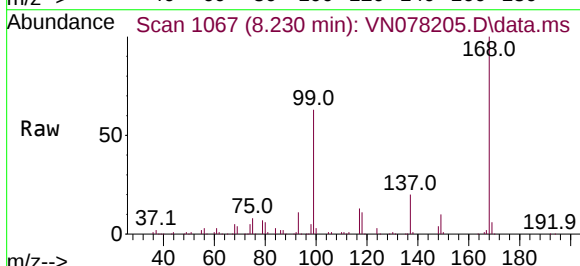
Tgt Ion: 56 Resp: 10798

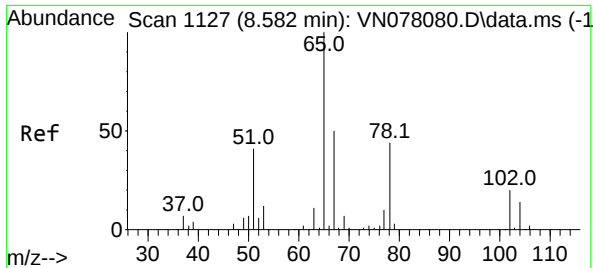
Ion Ratio Lower Upper

56 100

69 154.8 26.8 40.2#

84 130.1 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 53.850 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

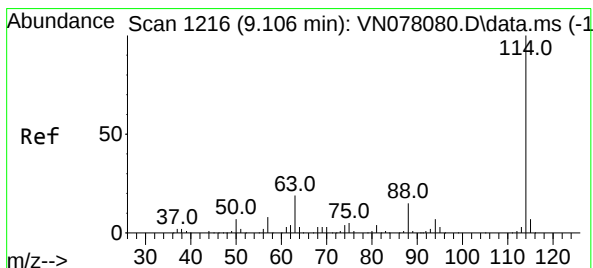
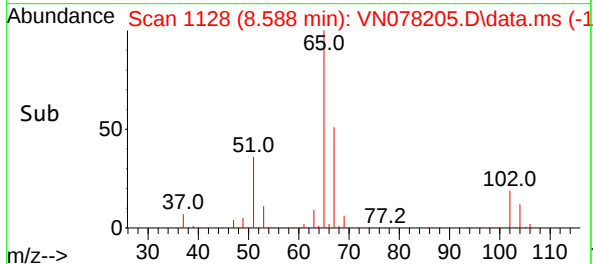
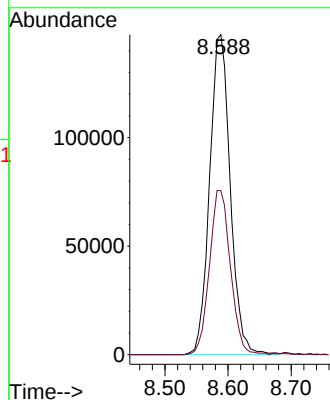
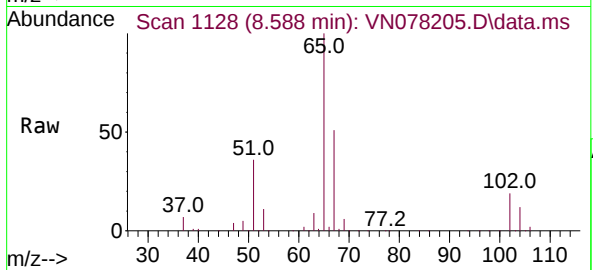
SOIL-001

Tgt Ion: 65 Resp: 334939

Ion Ratio Lower Upper

65 100

67 52.1 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: VN078205.D

Acq: 14 Jun 2023 14:56

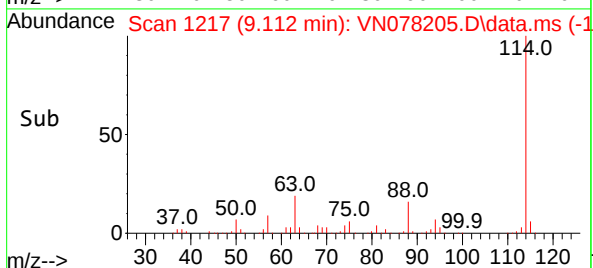
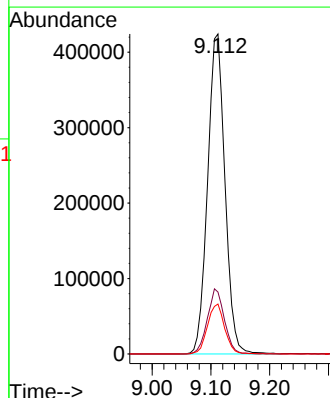
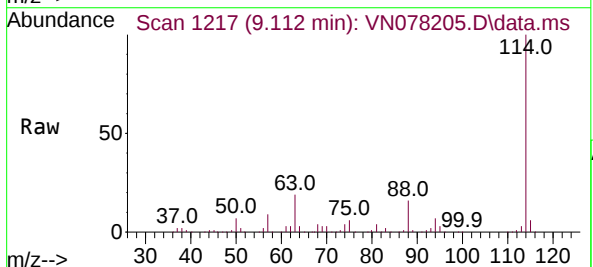
Tgt Ion: 114 Resp: 870650

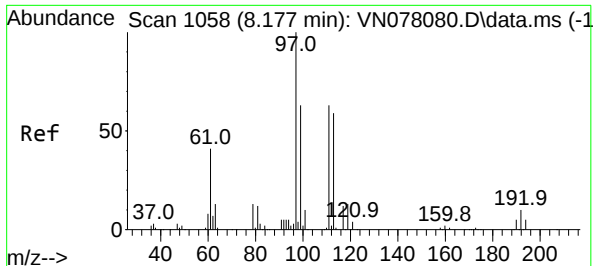
Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.4

88 15.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.973 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

SOIL-001

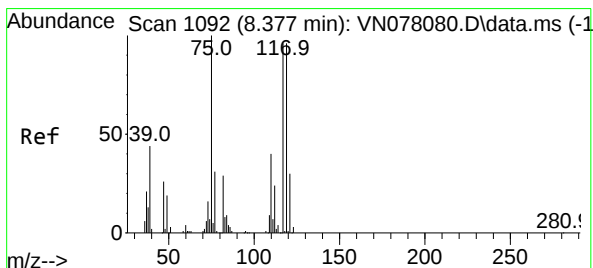
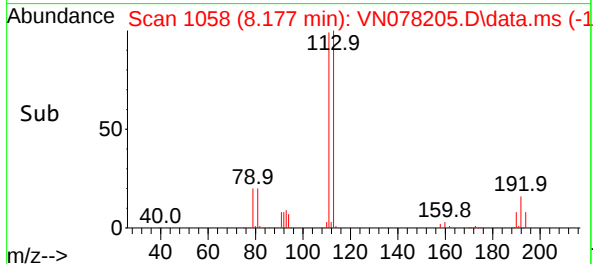
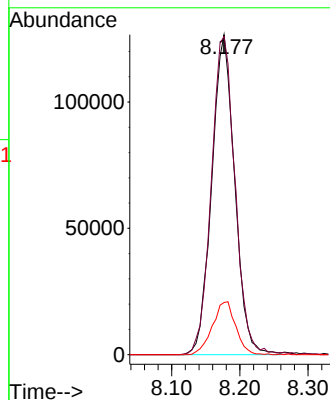
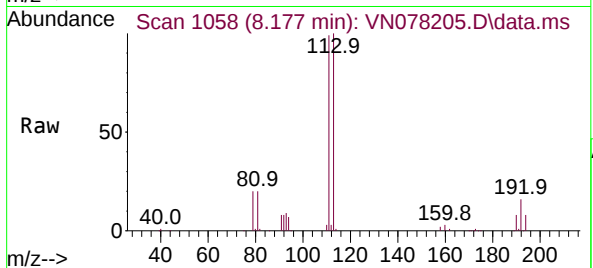
Tgt Ion:113 Resp: 297122

Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

192 16.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.880 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

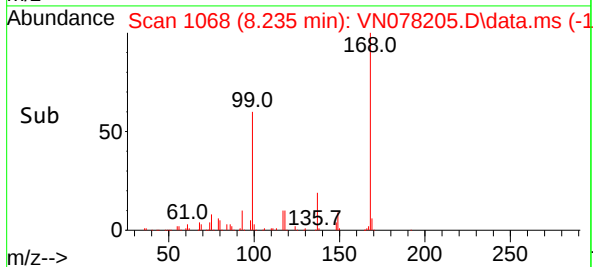
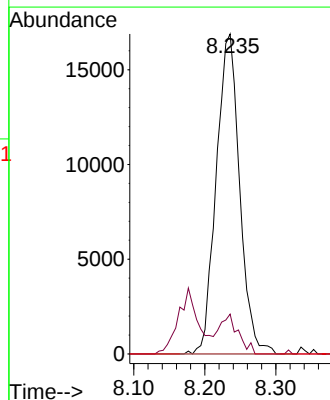
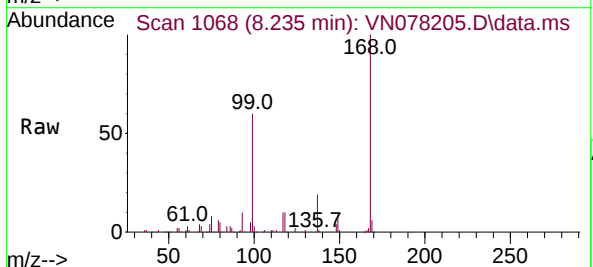
Tgt Ion: 75 Resp: 38537

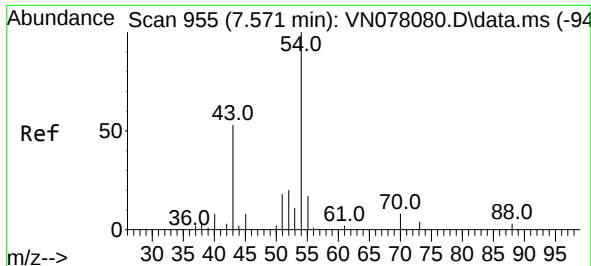
Ion Ratio Lower Upper

75 100

110 9.9 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 9.112 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

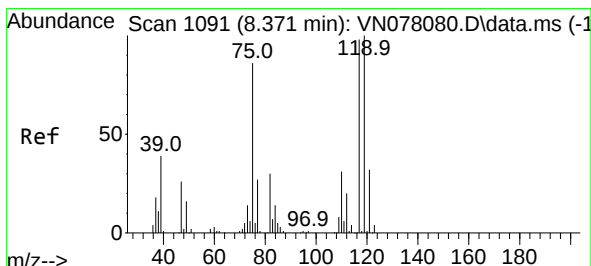
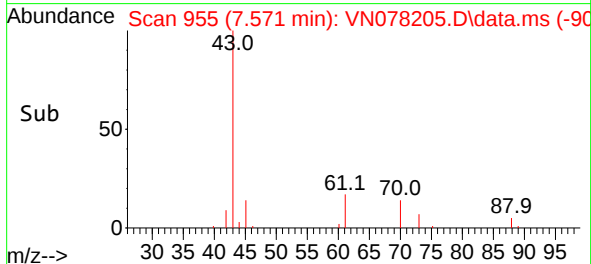
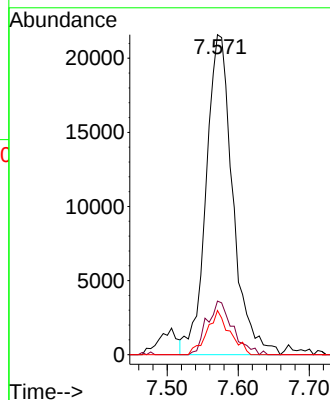
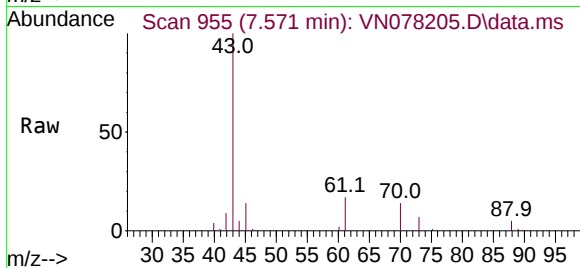
Instrument :

MSVOA_N

ClientSampleId :

SOIL-001

Tgt Ion:	43	Resp:	56207
Ion	Ratio	Lower	Upper
43	100		
61	16.3	13.2	19.8
70	11.7	11.3	16.9



#38

Carbon Tetrachloride

Concen: 6.336 ug/l

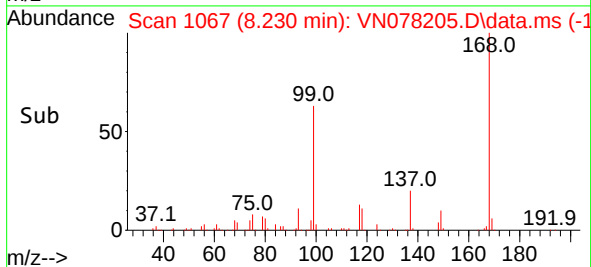
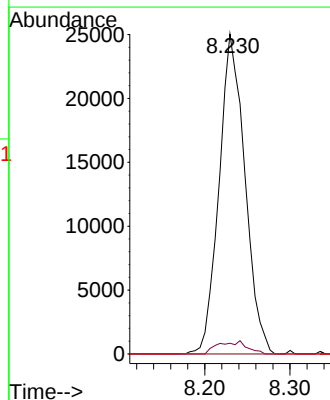
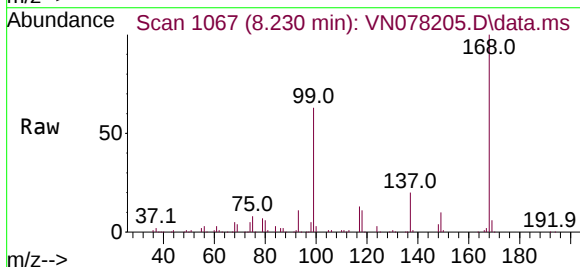
RT: 8.230 min Scan# 1067

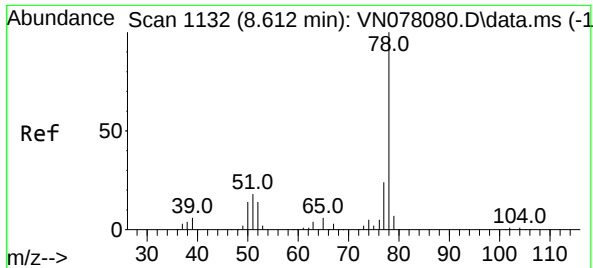
Delta R.T. -0.141 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Tgt Ion:	117	Resp:	52824
Ion	Ratio	Lower	Upper
117	100		
119	3.3	77.3	115.9#
121	0.0	23.3	34.9#

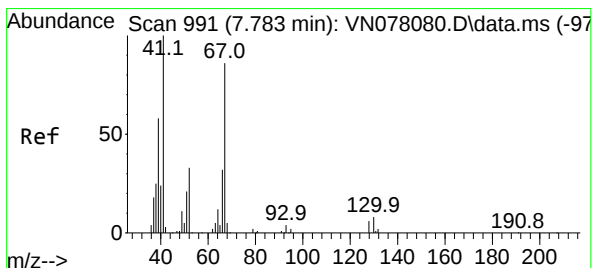
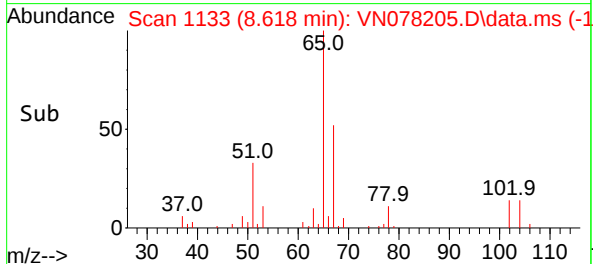
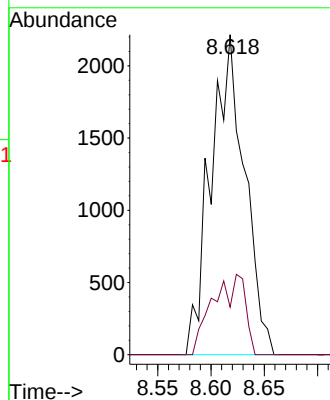
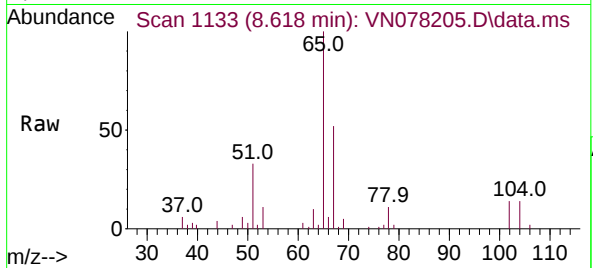




#40
Benzene
Concen: 0.207 ug/l
RT: 8.618 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

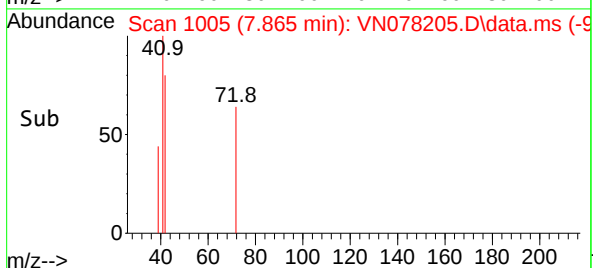
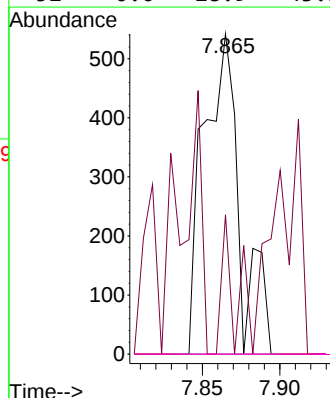
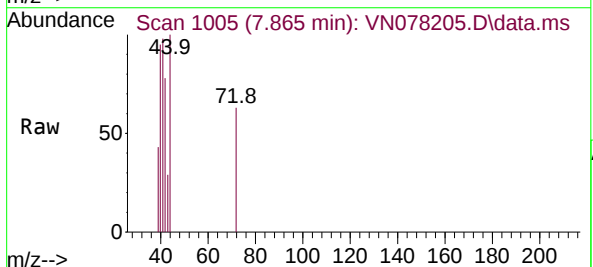
Instrument :
MSVOA_N
ClientSampleId :
SOIL-001

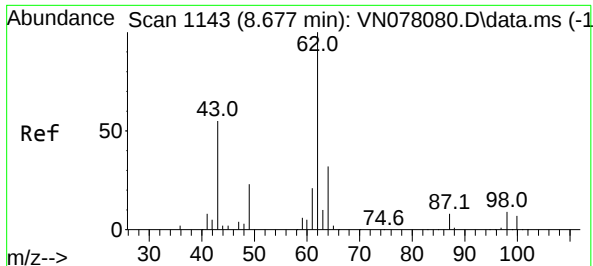
Tgt Ion: 78 Resp: 4884
Ion Ratio Lower Upper
78 100
77 14.9 19.0 28.6#



#41
Methacrylonitrile
Concen: 0.261 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.082 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion: 41 Resp: 872
Ion Ratio Lower Upper
41 100
39 9.5 42.6 64.0#
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#





#42

1,2-Dichloroethane

Concen: 0.264 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

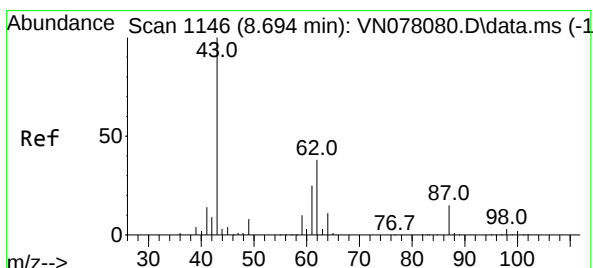
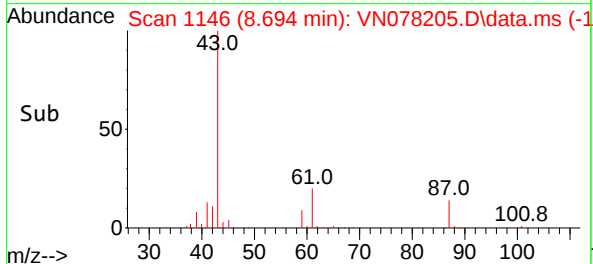
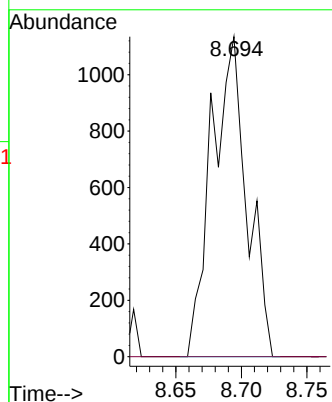
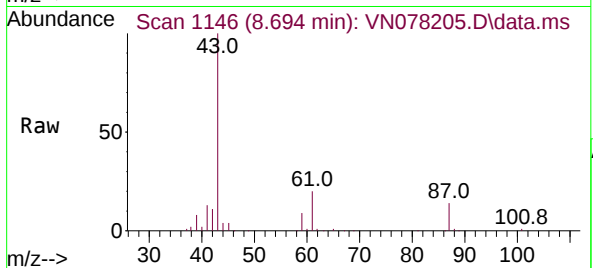
SOIL-001

Tgt Ion: 62 Resp: 2132

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 20.556 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

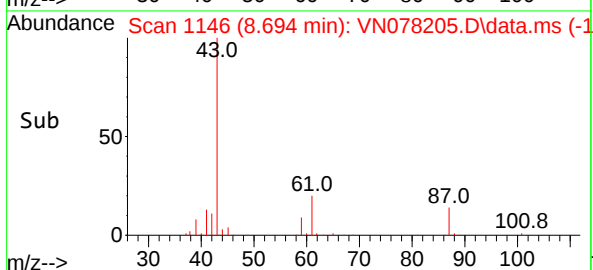
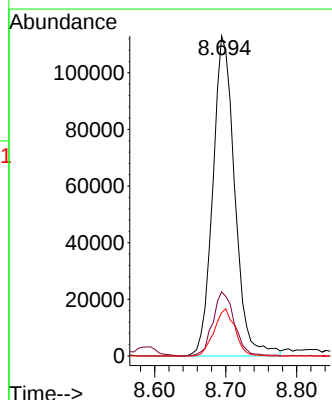
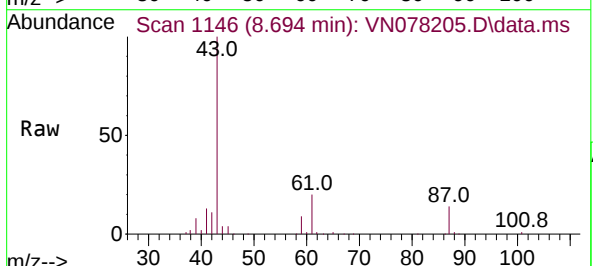
Tgt Ion: 43 Resp: 242499

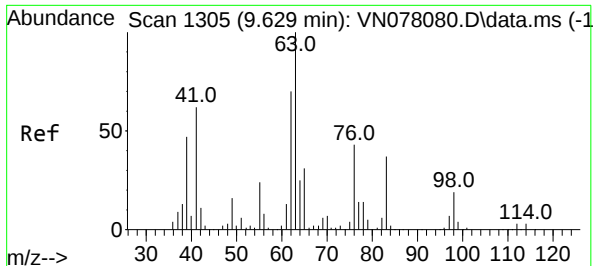
Ion Ratio Lower Upper

43 100

61 19.8 24.7 37.1#

87 13.9 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.461 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

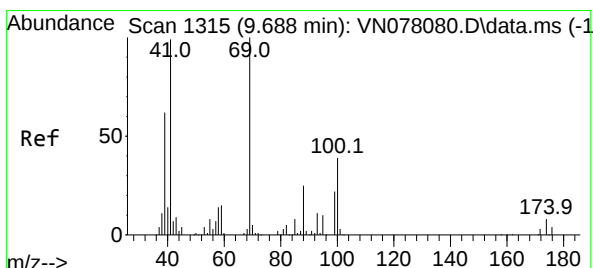
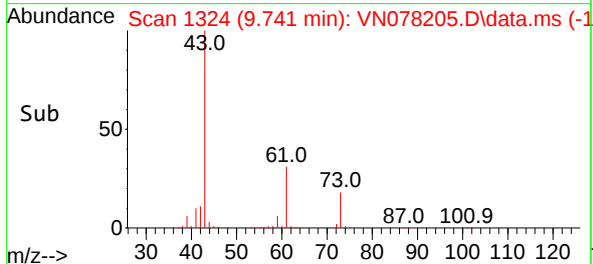
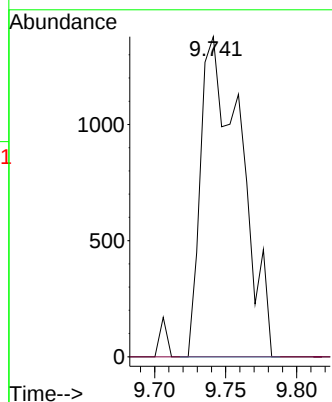
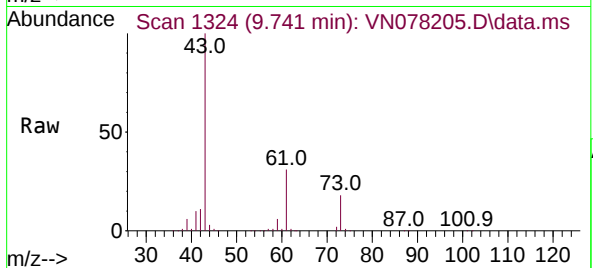
SOIL-001

Tgt Ion: 63 Resp: 2702

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.183 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.012 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

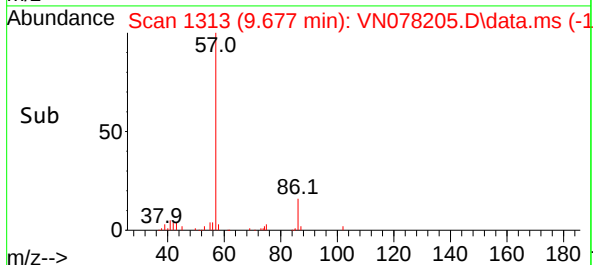
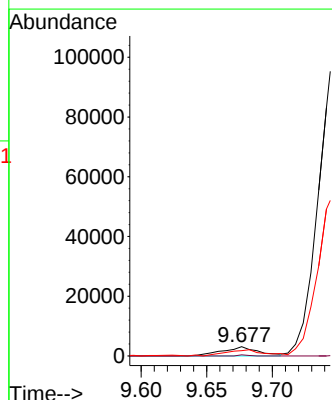
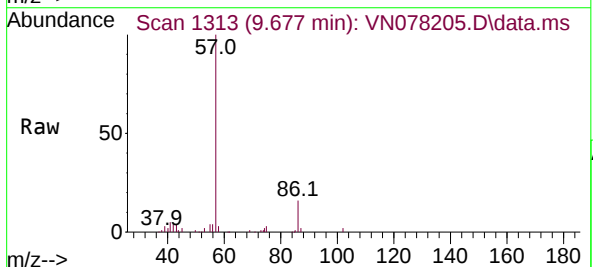
Tgt Ion: 41 Resp: 5857

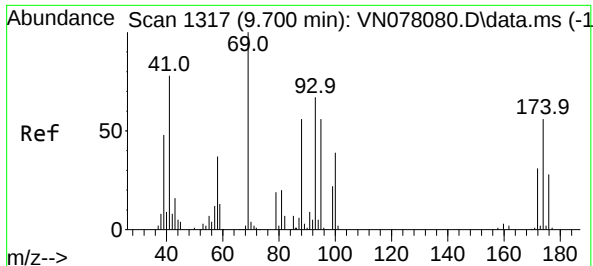
Ion Ratio Lower Upper

41 100

69 3.2 90.4 135.6#

39 66.1 54.6 81.8





#49

1,4-Dioxane

Concen: 2.403 ug/l

RT: 9.747 min Scan# 1317

Delta R.T. 0.047 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

SOIL-001

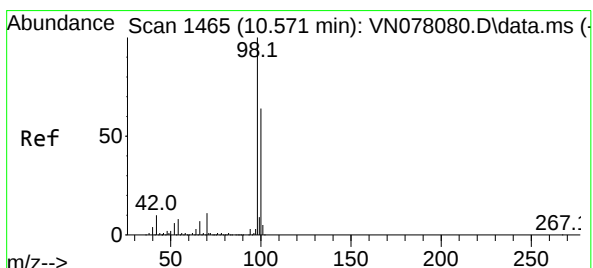
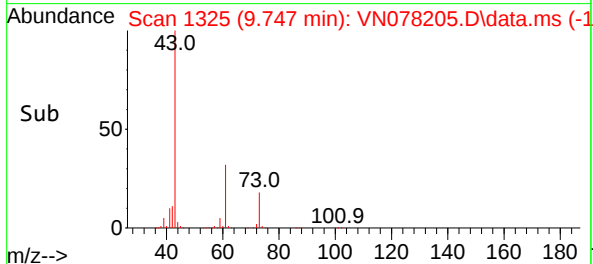
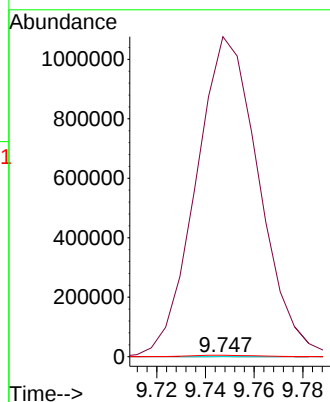
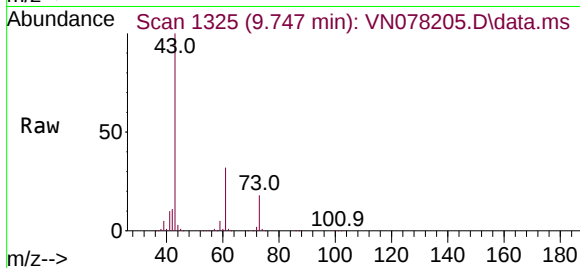
Tgt Ion: 88 Resp: 250

Ion Ratio Lower Upper

88 100

43 786575.2 17.0 25.6#

58 3962.8 47.0 70.4#



#50

Toluene-d8

Concen: 49.180 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078205.D

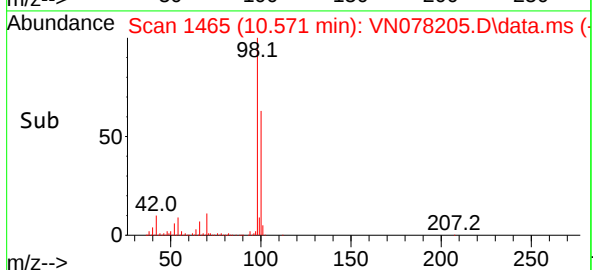
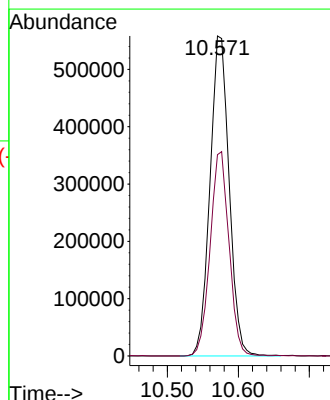
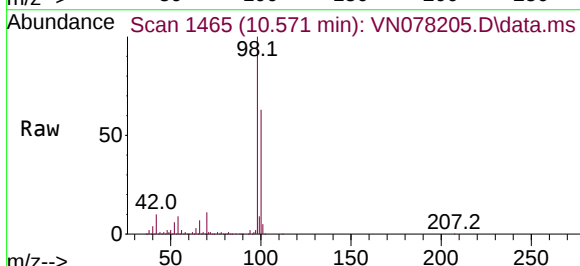
Acq: 14 Jun 2023 14:56

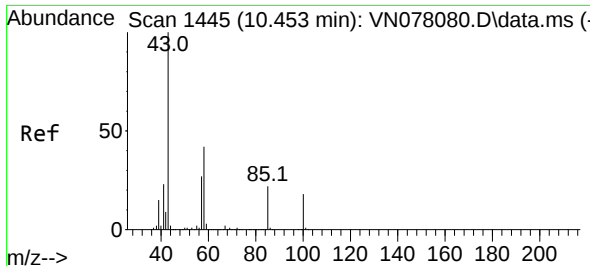
Tgt Ion: 98 Resp: 1043706

Ion Ratio Lower Upper

98 100

100 63.0 52.0 78.0

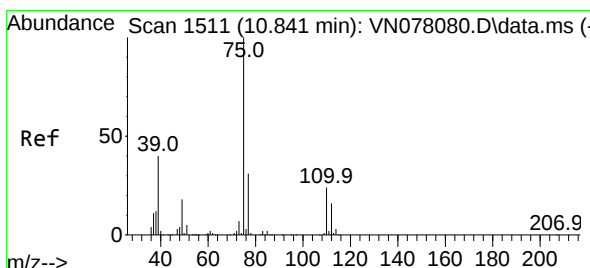
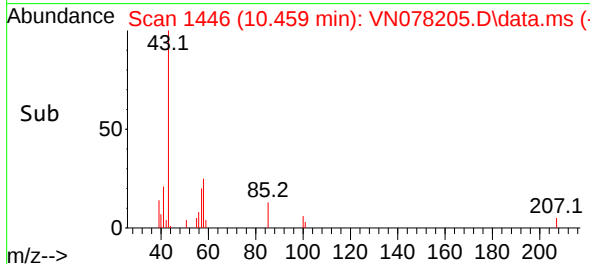
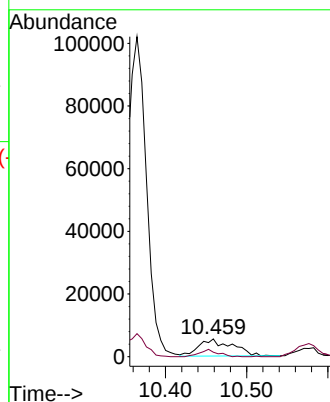
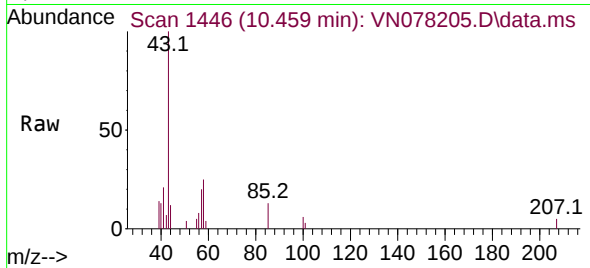




#51
4-Methyl-2-Pentanone
Concen: 2.538 ug/l
RT: 10.459 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

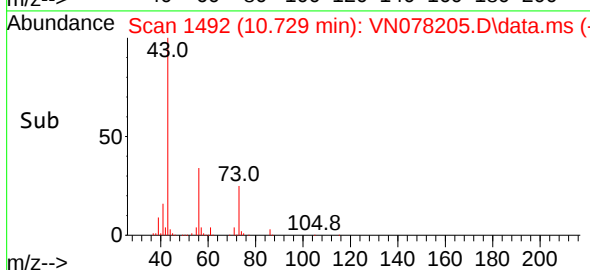
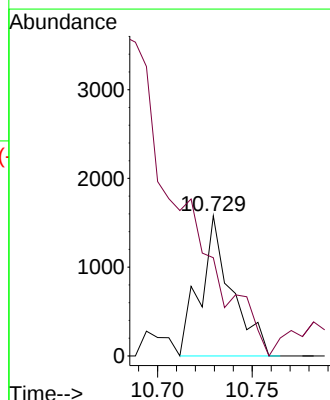
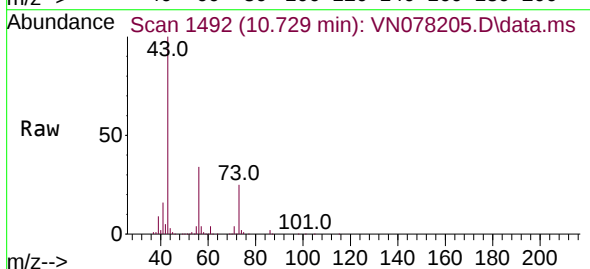
Instrument :
MSVOA_N
ClientSampleId :
SOIL-001

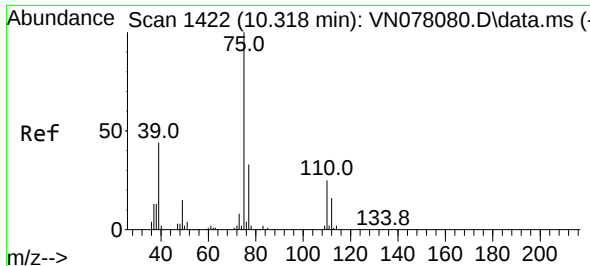
Tgt Ion: 43 Resp: 15767
Ion Ratio Lower Upper
43 100
58 22.6 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.216 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion: 75 Resp: 1805
Ion Ratio Lower Upper
75 100
77 57.3 25.4 38.0#

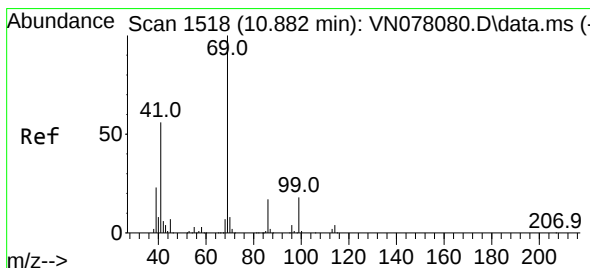
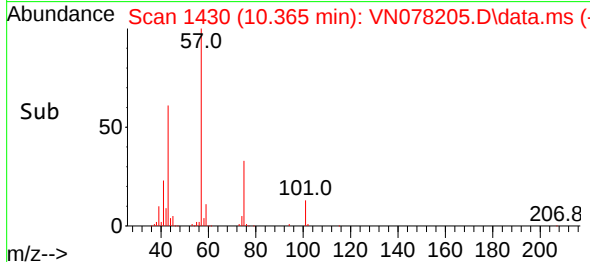
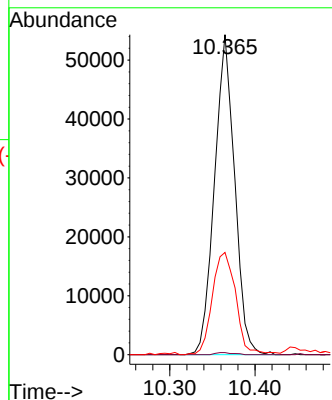
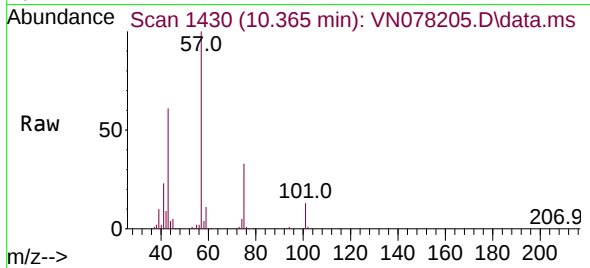




#54
cis-1,3-Dichloropropene
Concen: 9.662 ug/l
RT: 10.365 min Scan# 1422
Delta R.T. 0.047 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

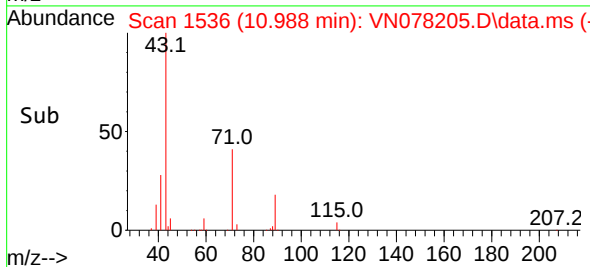
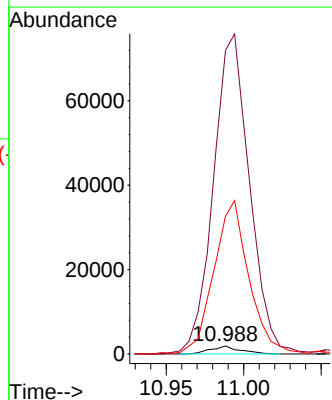
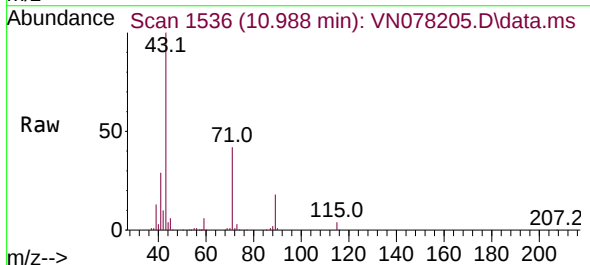
Instrument :
MSVOA_N
ClientSampleId :
SOIL-001

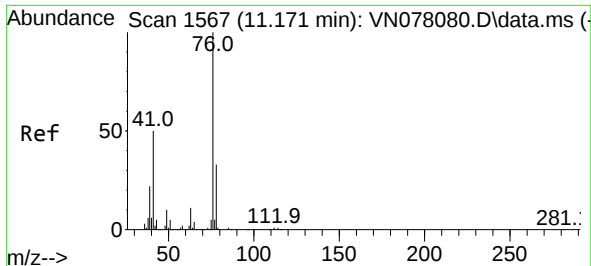
Tgt Ion: 75 Resp: 89263
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 31.9 31.6 47.4



#56
Ethyl methacrylate
Concen: 0.298 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion: 69 Resp: 2441
Ion Ratio Lower Upper
69 100
41 5043.0 39.6 59.4#
39 2341.0 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 0.964 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

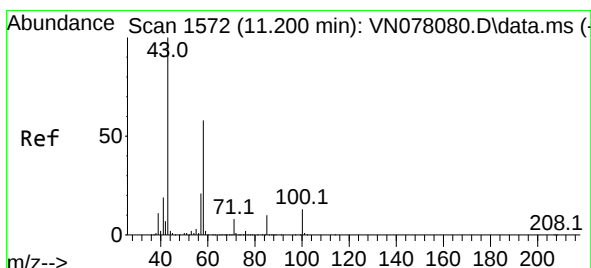
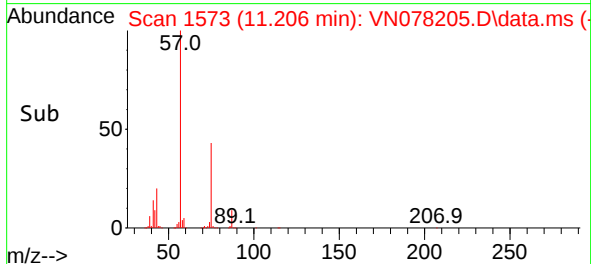
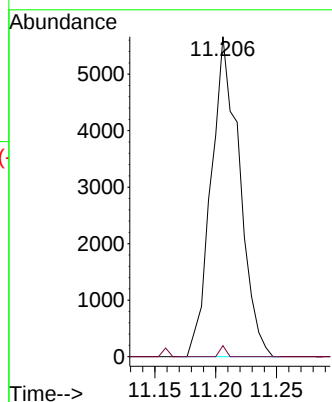
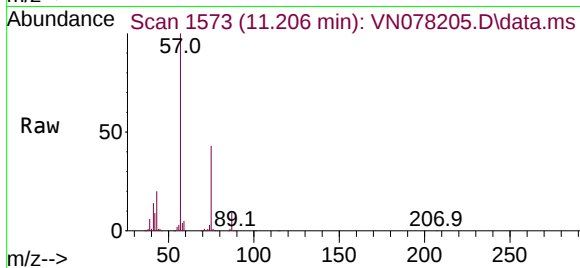
SOIL-001

Tgt Ion: 76 Resp: 9157

Ion Ratio Lower Upper

76 100

78 0.8 26.1 39.1#



#59

2-Hexanone

Concen: 43.134 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078205.D

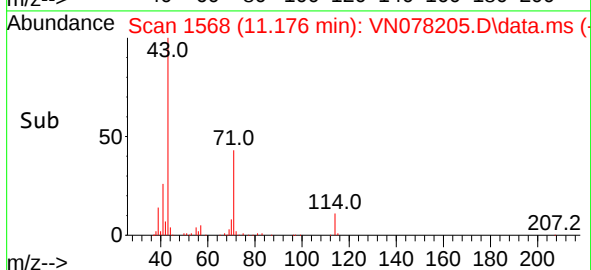
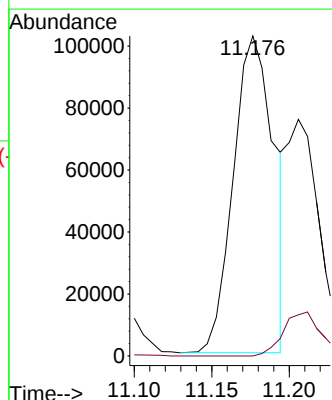
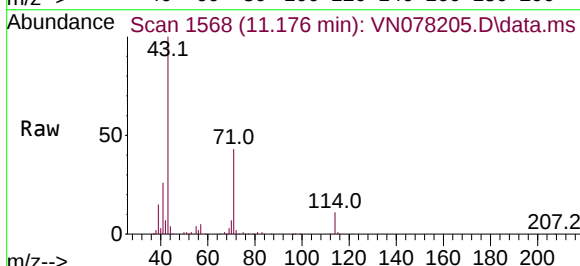
Acq: 14 Jun 2023 14:56

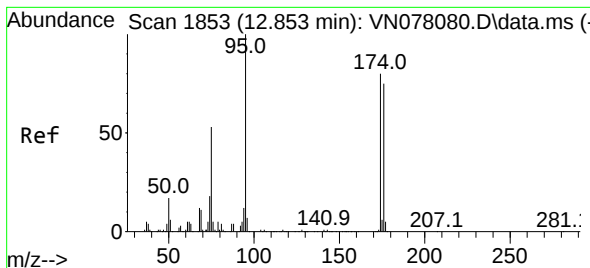
Tgt Ion: 43 Resp: 186578

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

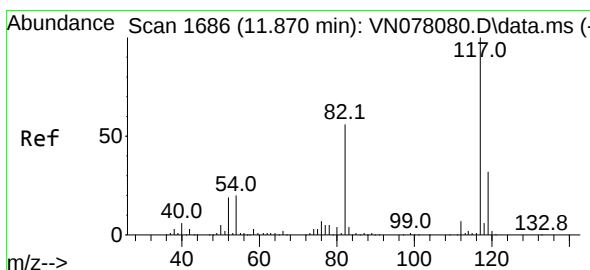
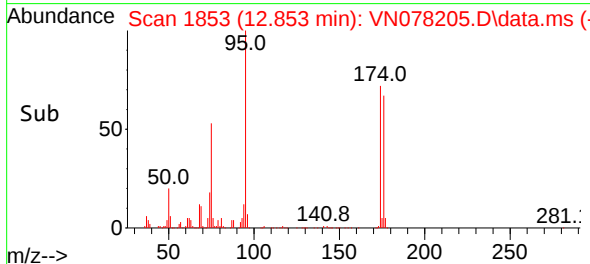
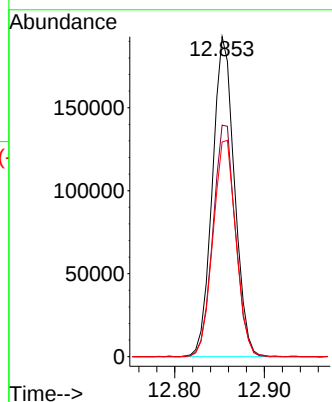
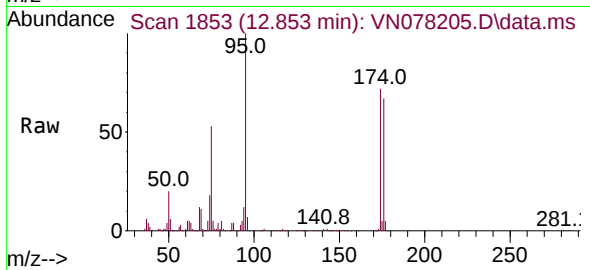




#62
4-Bromofluorobenzene
Concen: 49.775 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

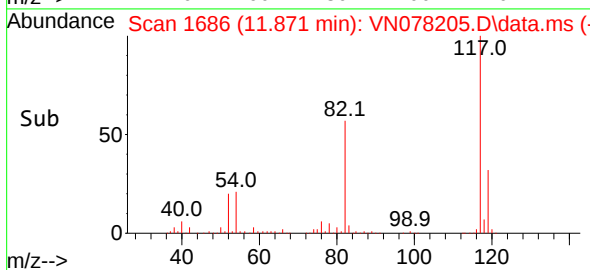
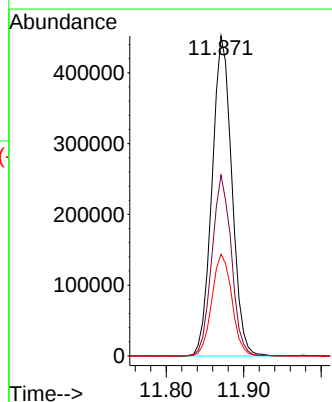
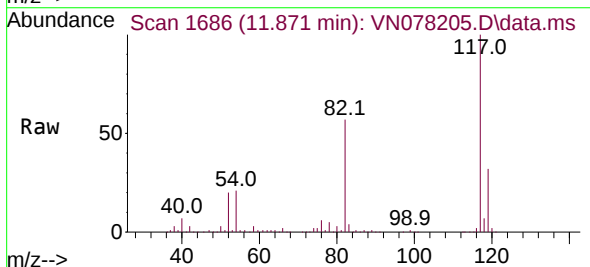
Instrument :
MSVOA_N
ClientSampleId :
SOIL-001

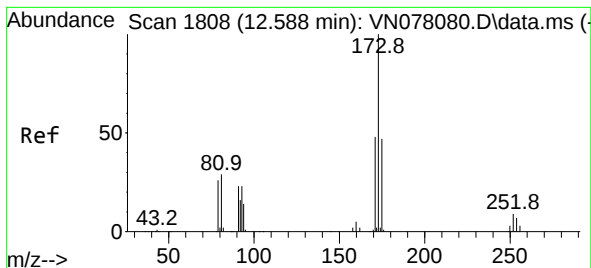
Tgt Ion: 95 Resp: 328389
Ion Ratio Lower Upper
95 100
174 74.0 0.0 143.8
176 70.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion: 117 Resp: 803326
Ion Ratio Lower Upper
117 100
82 56.5 44.0 66.0
119 31.8 25.6 38.4





#71

Bromoform

Concen: 0.692 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078205.D

Acq: 14 Jun 2023 14:56

Instrument :

MSVOA_N

ClientSampleId :

SOIL-001

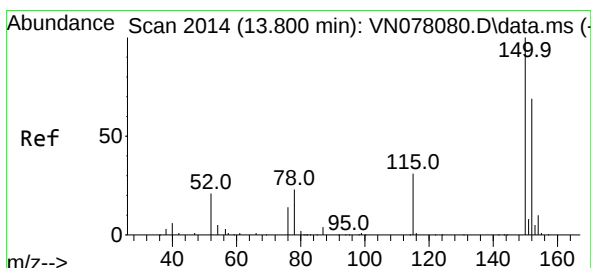
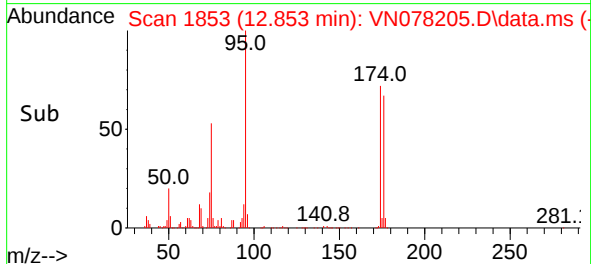
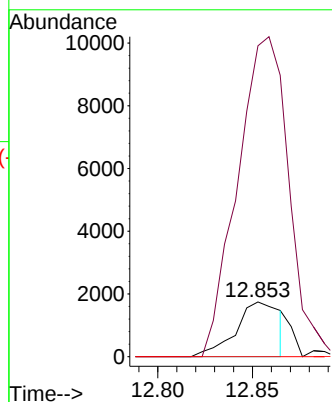
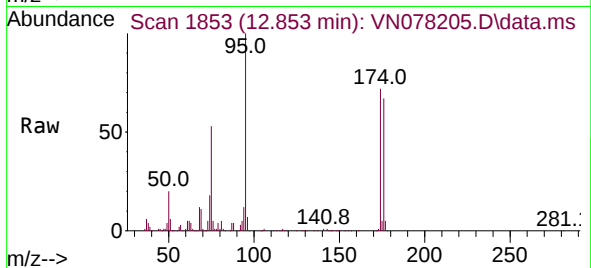
Tgt Ion:173 Resp: 2826

Ion Ratio Lower Upper

173 100

175 582.2 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: VN078205.D

Acq: 14 Jun 2023 14:56

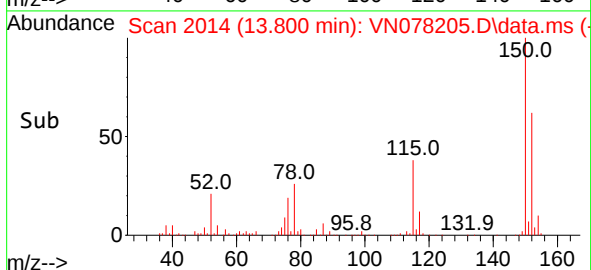
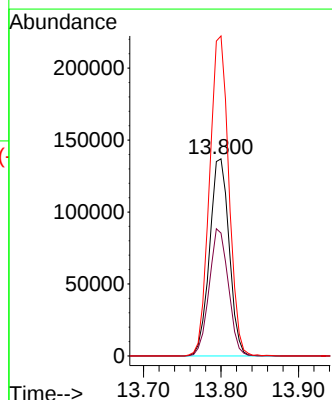
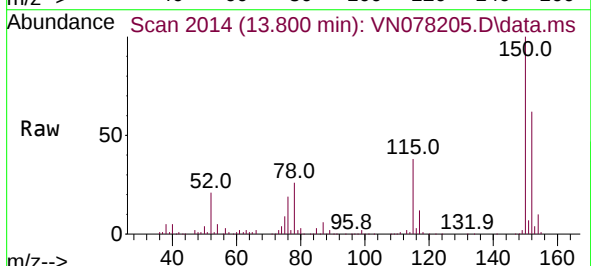
Tgt Ion:152 Resp: 239976

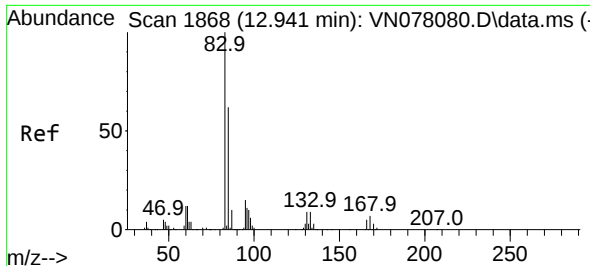
Ion Ratio Lower Upper

152 100

115 63.1 32.3 96.8

150 160.1 0.0 355.8

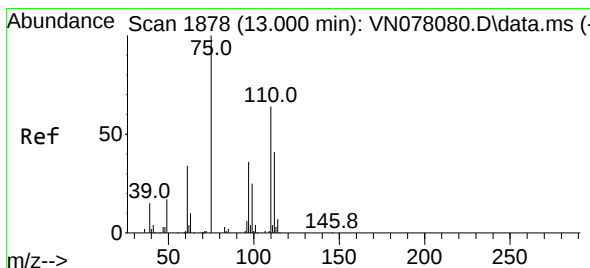
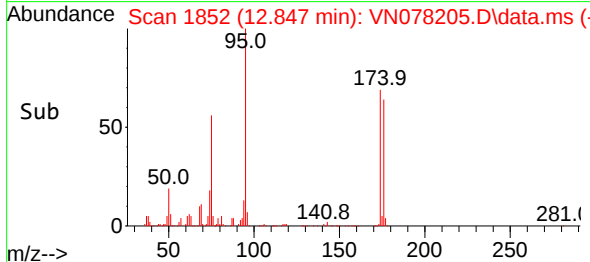
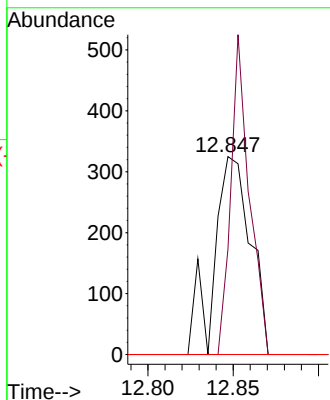
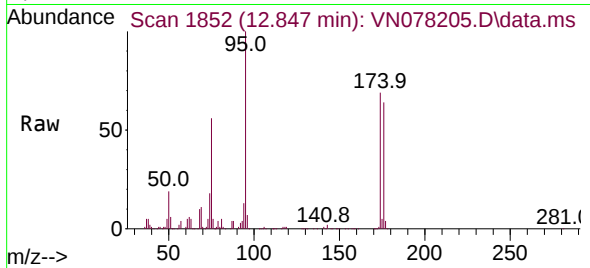




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.847 min Scan# 1852
Delta R.T. -0.094 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

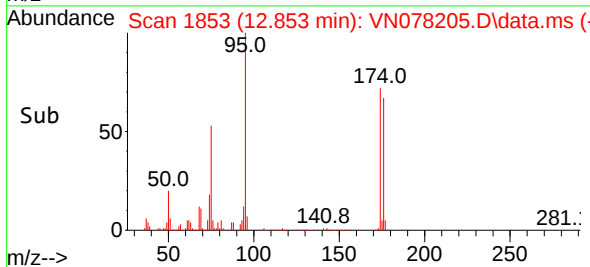
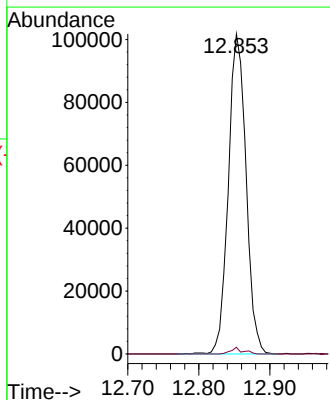
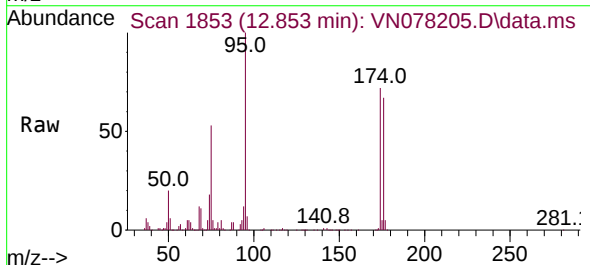
Instrument :
MSVOA_N
ClientSampleId :
SOIL-001

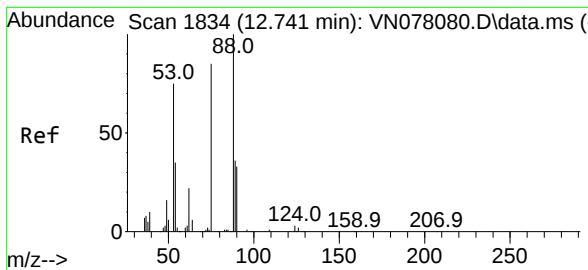
Tgt Ion: 83 Resp: 486
Ion Ratio Lower Upper
83 100
131 81.5 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 31.062 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078205.D
Acq: 14 Jun 2023 14:56

Tgt Ion: 75 Resp: 176217
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 95.431 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078205.D
 Acq: 14 Jun 2023 14:56

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-001

Tgt Ion: 75 Resp: 176217
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.1 38.8 58.2#

