

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110422\
 Data File : VN075178.D
 Acq On : 04 Nov 2022 16:33
 Operator : JC\MD
 Sample : N5451-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LFR-SOIL-1103

Quant Time: Nov 05 07:00:56 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

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

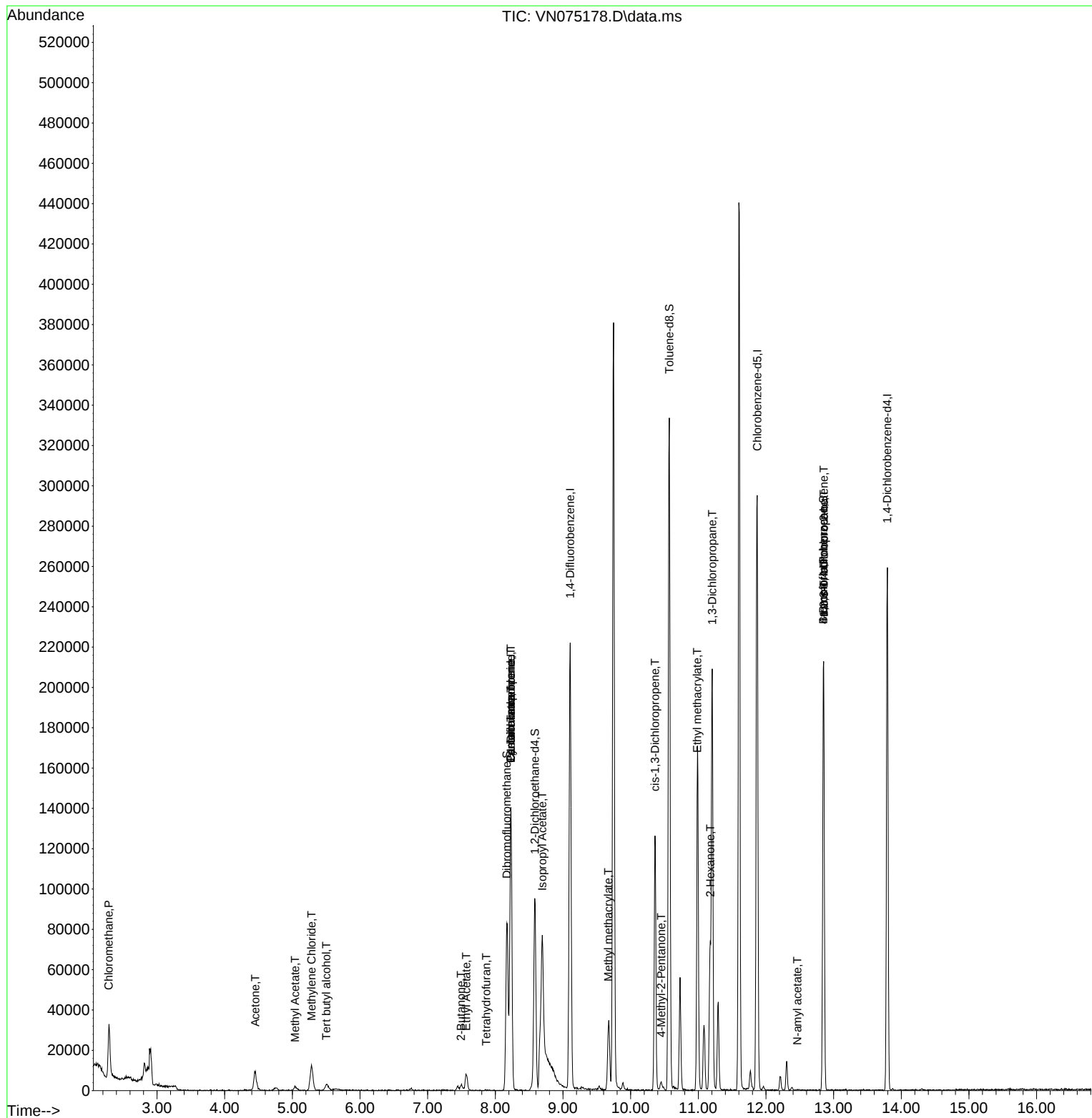
Internal Standards						
1) Pentafluorobenzene	8.230	168	96857	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	191294	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	174812	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	67147	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	78460	60.121	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.240%			
35) Dibromofluoromethane	8.171	113	59930	53.366	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.740%			
50) Toluene-d8	10.571	98	234925	53.920	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.840%			
62) 4-Bromofluorobenzene	12.847	95	73575	48.073	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.140%			
Target Compounds						Qvalue
3) Chloromethane	2.283	50	742	0.554	ug/l #	42
5) Bromomethane	2.918	94	199	Below Cal	#	5
11) Tert butyl alcohol	5.500	59	3231	10.616	ug/l #	72
16) Acetone	4.453	43	17867	32.334	ug/l	97
18) Methyl Acetate	5.042	43	4205	2.330	ug/l #	83
20) Methylene Chloride	5.283	84	10146	8.235	ug/l	93
25) 2-Butanone	7.494	43	4320	4.970	ug/l #	69
29) Tetrahydrofuran	7.865	42	206	0.367	ug/l #	26
31) Cyclohexane	8.230	56	2477	1.276	ug/l #	49
36) 1,1-Dichloropropene	8.230	75	8637	4.968	ug/l #	46
37) Ethyl Acetate	7.571	43	12768	6.696	ug/l #	93
38) Carbon Tetrachloride	8.230	117	10766	5.629	ug/l #	15
43) Isopropyl Acetate	8.694	43	113048	38.224	ug/l #	73
48) Methyl methacrylate	9.671	41	2050	1.511	ug/l #	33
51) 4-Methyl-2-Pentanone	10.453	43	4740	2.484	ug/l #	65
54) cis-1,3-Dichloropropene	10.359	75	24111	11.268	ug/l #	64
56) Ethyl methacrylate	10.982	69	832	0.387	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	2279	0.970	ug/l #	42
59) 2-Hexanone	11.176	43	82114	56.690	ug/l #	21
71) Bromoform	12.847	173	496	0.479	ug/l #	1
74) N-amyl acetate	12.465	43	520	0.261	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	40518	28.420	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	40518	72.953	ug/l #	10

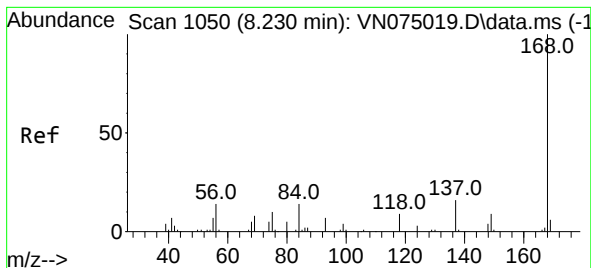
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 27 09:48:49 2022
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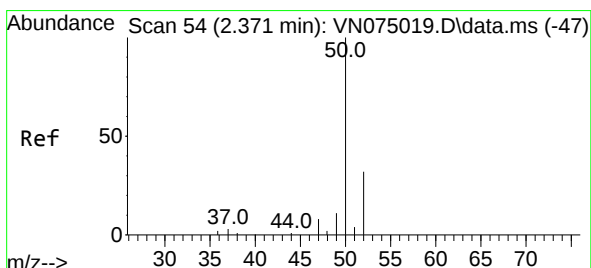
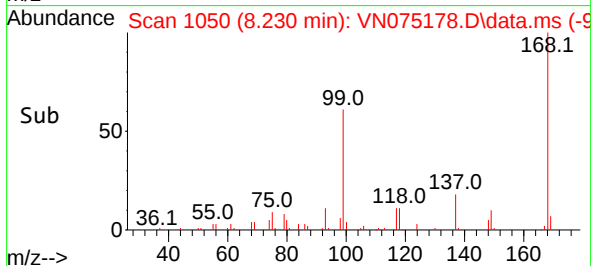
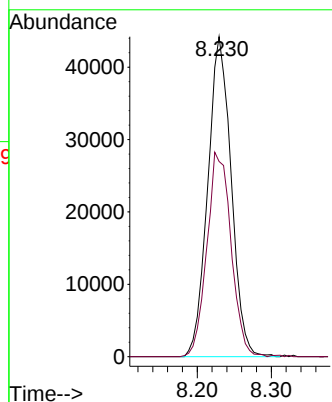
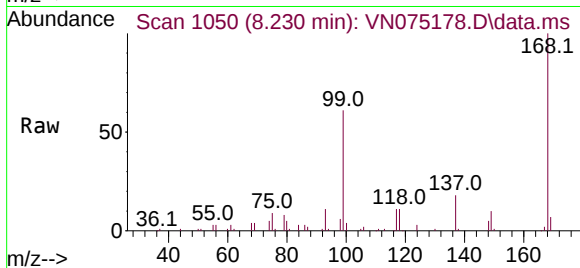




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

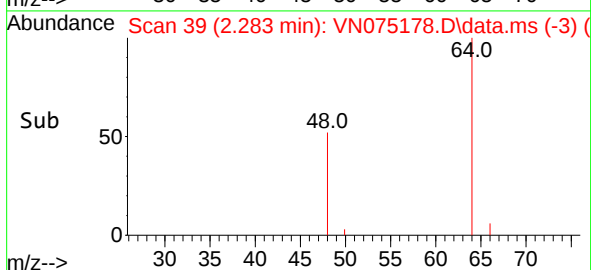
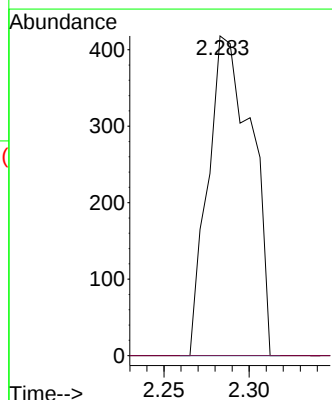
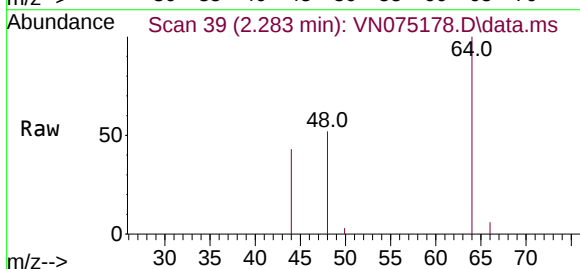
Instrument :
MSVOA_N
ClientSampleId :
LFR-SOIL-1103

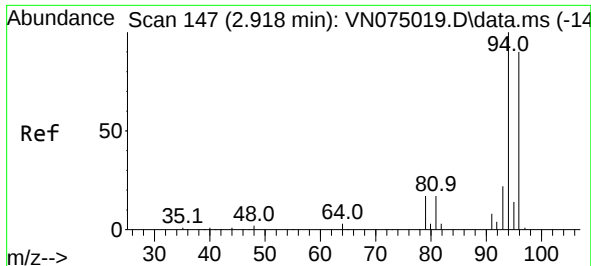
Tgt Ion:168 Resp: 96857
Ion Ratio Lower Upper
168 100
99 61.0 51.6 77.4



#3
Chloromethane
Concen: 0.554 ug/l
RT: 2.283 min Scan# 39
Delta R.T. -0.088 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

Tgt Ion: 50 Resp: 742
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

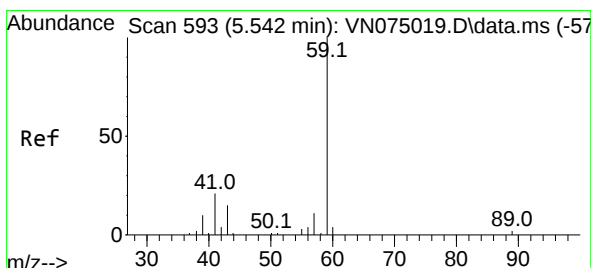
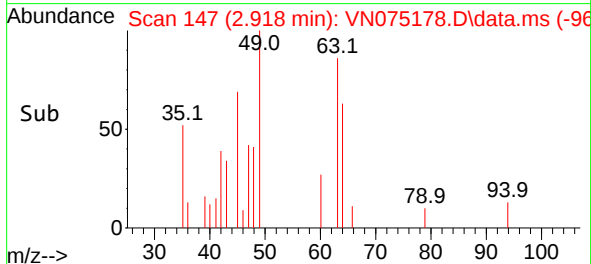
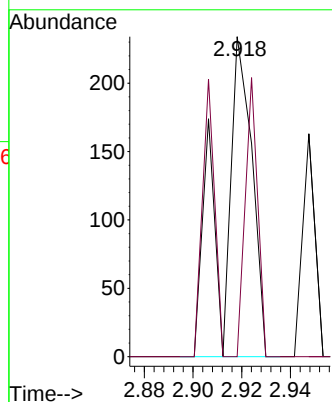
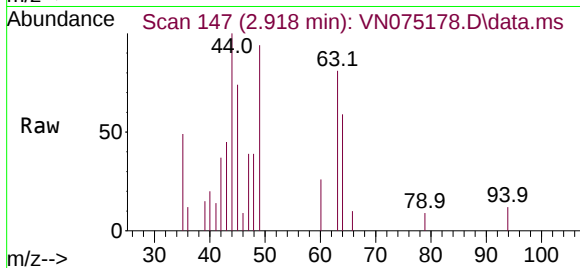




#5
Bromomethane
Concen: Below Cal
RT: 2.918 min Scan# 147
Delta R.T. 0.000 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

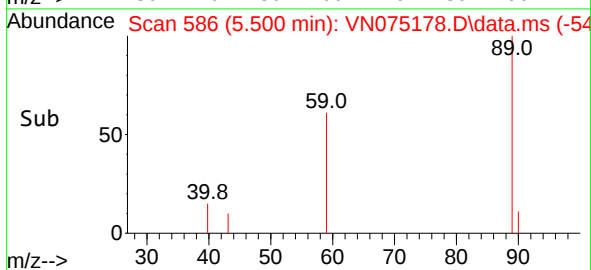
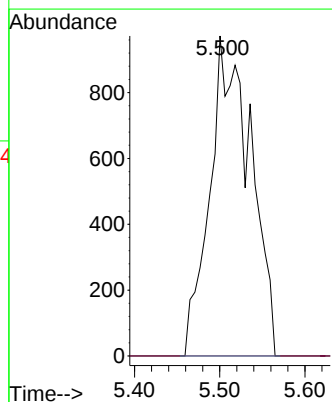
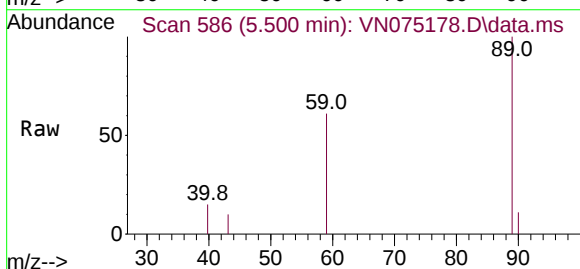
Instrument :
MSVOA_N
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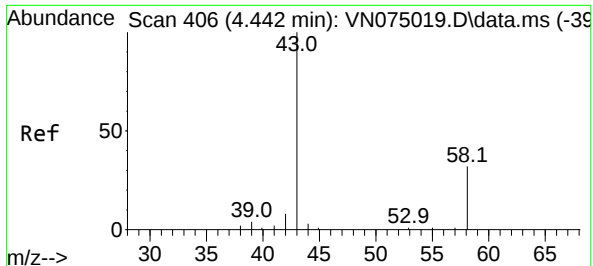
Tgt Ion: 94 Resp: 199
Ion Ratio Lower Upper
94 100
96 0.0 71.8 107.6#



#11
Tert butyl alcohol
Concen: 10.616 ug/l
RT: 5.500 min Scan# 586
Delta R.T. -0.042 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

Tgt Ion: 59 Resp: 3231
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

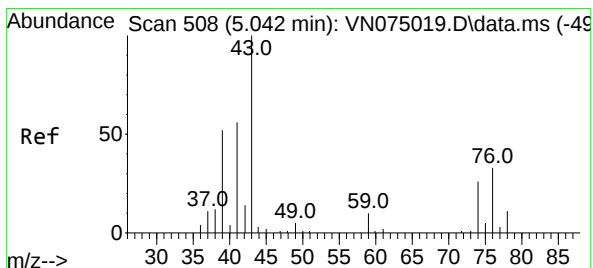
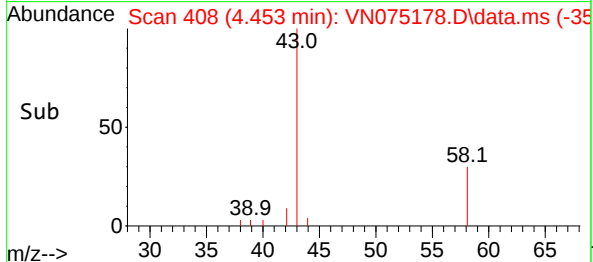
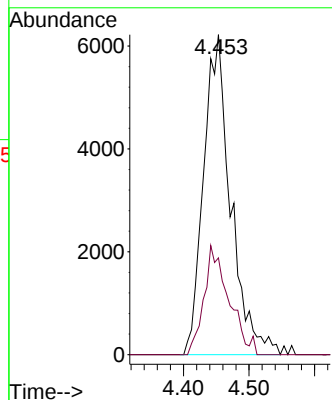
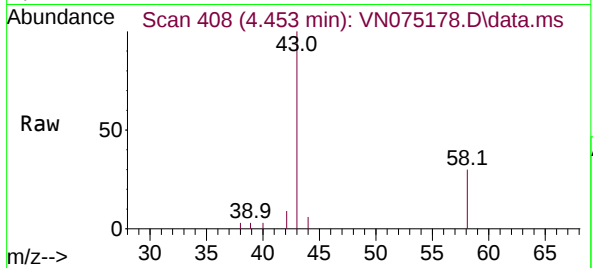




#16
Acetone
Concen: 32.334 ug/l
RT: 4.453 min Scan# 406
Delta R.T. 0.011 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

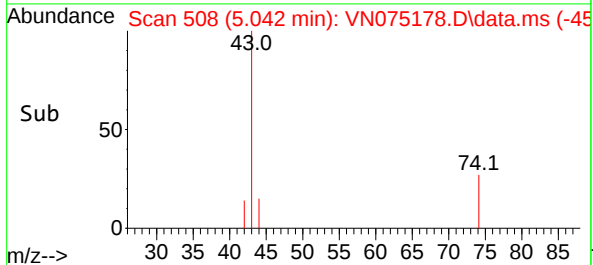
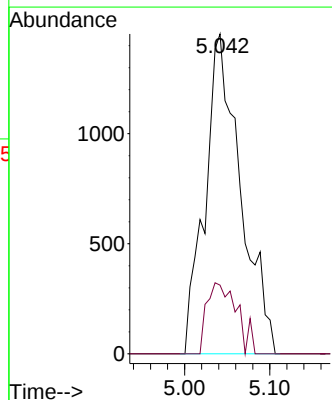
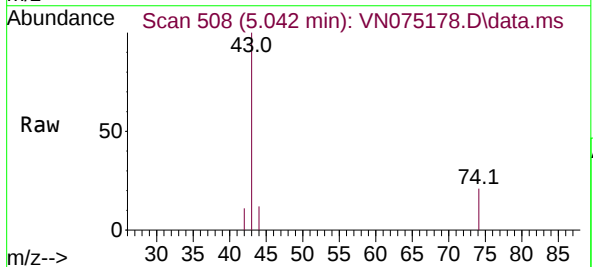
Instrument :
MSVOA_N
ClientSampleId :
LFR-SOIL-1103

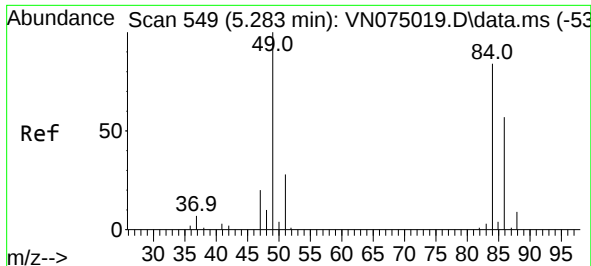
Tgt Ion: 43 Resp: 17867
Ion Ratio Lower Upper
43 100
58 30.3 25.5 38.3



#18
Methyl Acetate
Concen: 2.330 ug/l
RT: 5.042 min Scan# 508
Delta R.T. -0.000 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

Tgt Ion: 43 Resp: 4205
Ion Ratio Lower Upper
43 100
74 18.7 22.0 33.0#

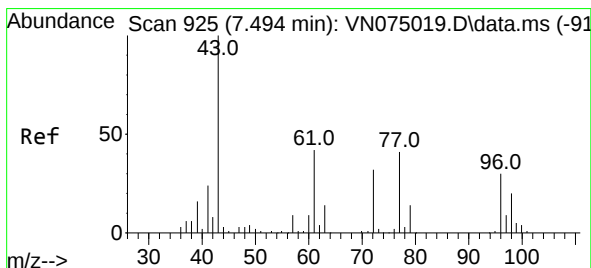
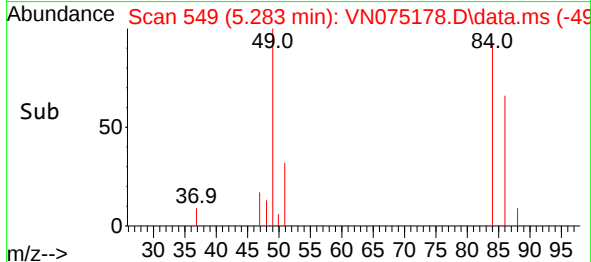
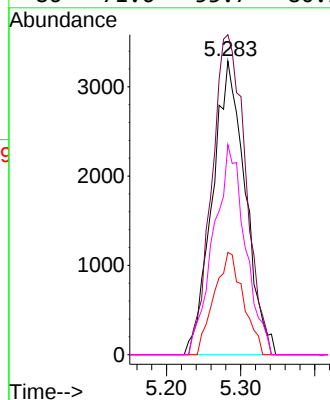
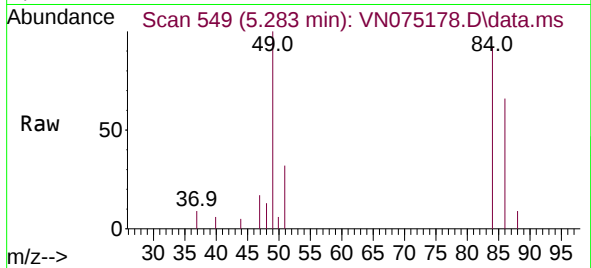




#20
Methylene Chloride
Concen: 8.235 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.000 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

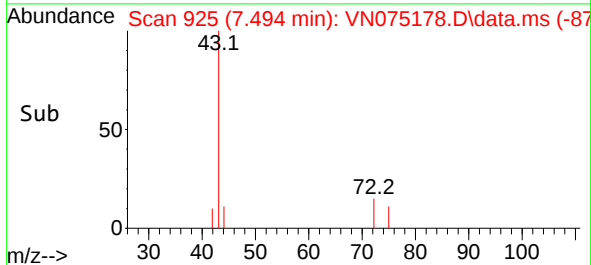
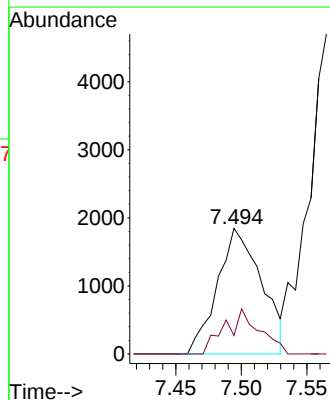
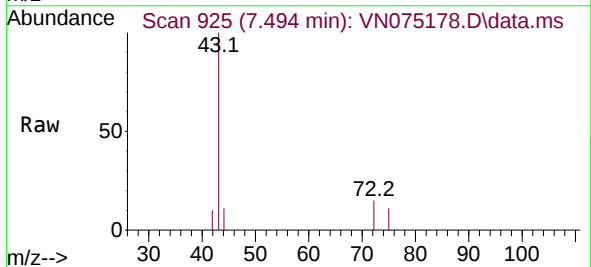
Instrument :
MSVOA_N
ClientSampleId :
LFR-SOIL-1103

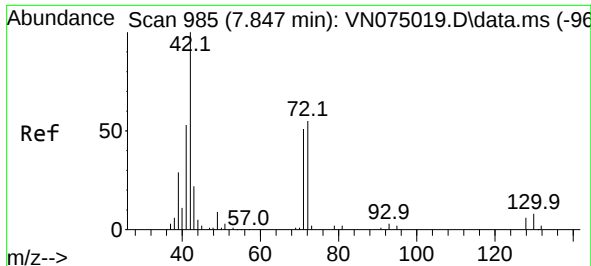
Tgt Ion: 84	Resp: 10146
Ion Ratio	Lower Upper
84 100	
49 109.0	94.9 142.3
51 34.8	26.8 40.2
86 71.6	53.7 80.5



#25
2-Butanone
Concen: 4.970 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.000 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

Tgt Ion: 43	Resp: 4320		
Ion Ratio	Lower	Upper	
43 100			
72 14.9	25.5	38.3#	





#29

Tetrahydrofuran

Concen: 0.367 ug/l

RT: 7.865 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

LFR-SOIL-1103

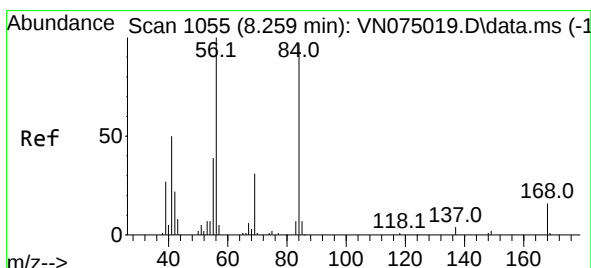
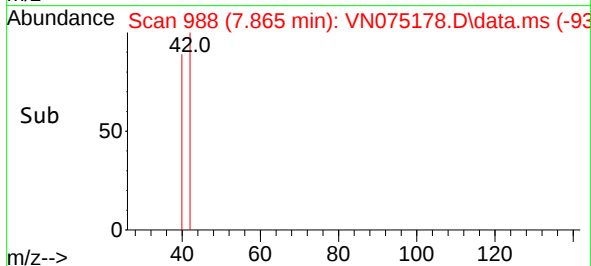
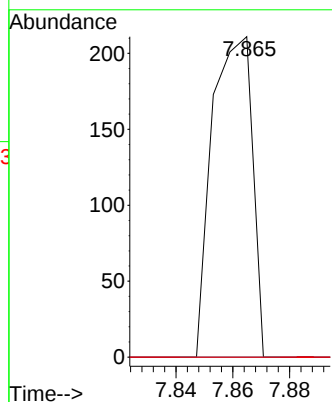
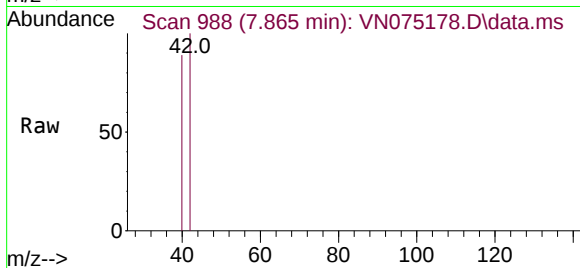
Tgt Ion: 42 Resp: 206

Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.6#

71 0.0 39.9 59.9#



#31

Cyclohexane

Concen: 1.276 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.029 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

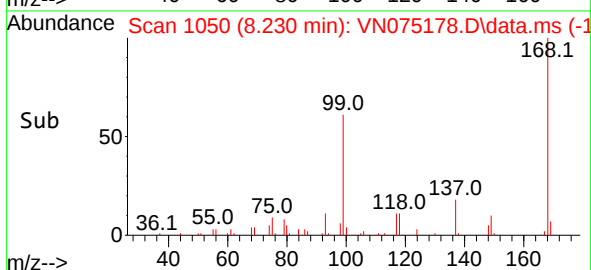
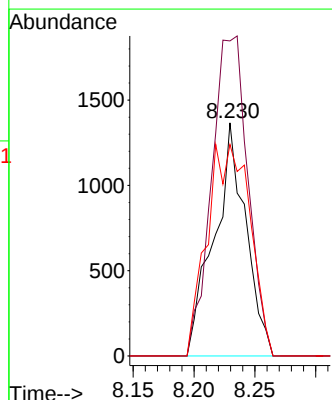
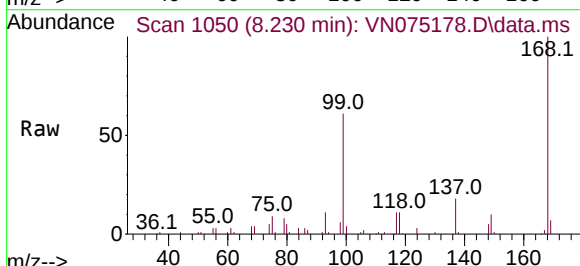
Tgt Ion: 56 Resp: 2477

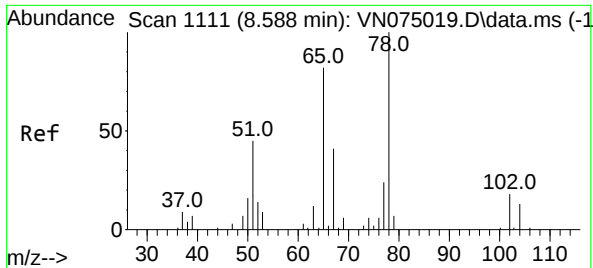
Ion Ratio Lower Upper

56 100

69 135.1 25.2 37.8#

84 90.7 77.8 116.8





#33

1,2-Dichloroethane-d4

Concen: 60.121 ug/l

RT: 8.582 min Scan# 1111

Delta R.T. -0.006 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

Instrument :

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ClientSampleId :

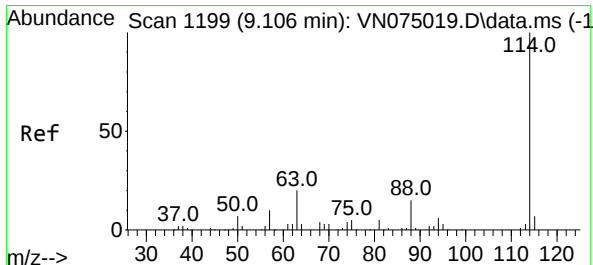
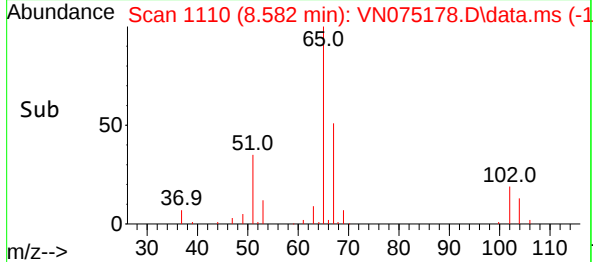
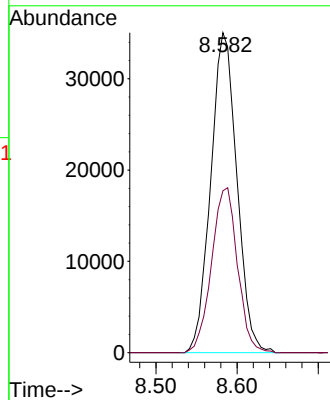
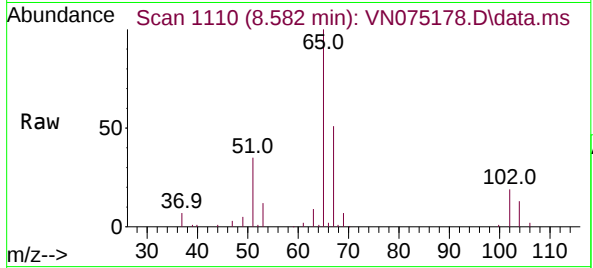
LFR-SOIL-1103

Tgt Ion: 65 Resp: 78460

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

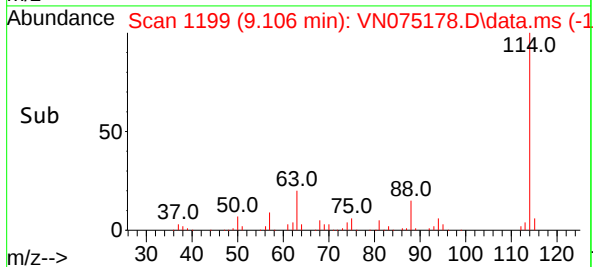
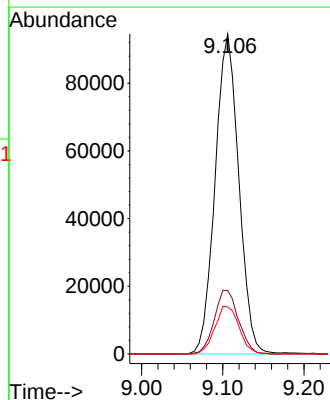
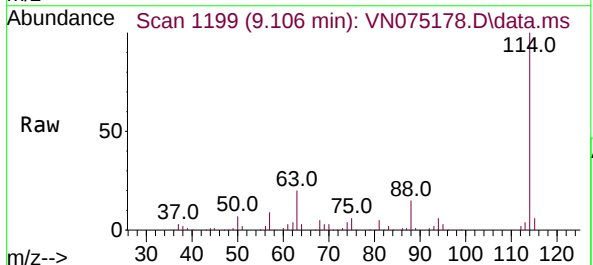
Tgt Ion: 114 Resp: 191294

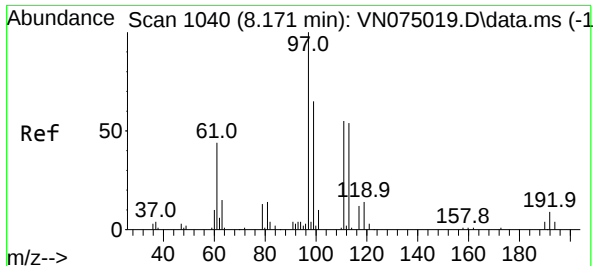
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 14.7 0.0 29.0





#35

Dibromofluoromethane

Concen: 53.366 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

LFR-SOIL-1103

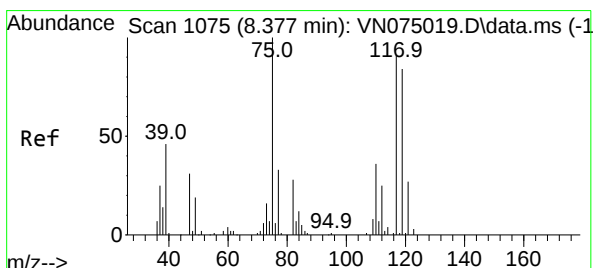
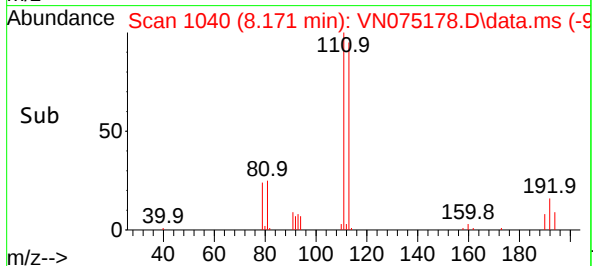
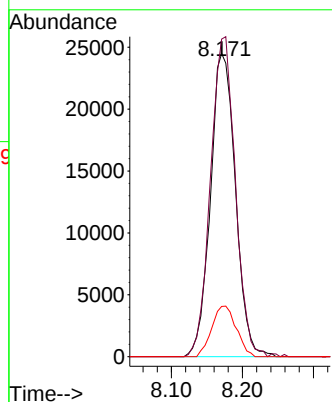
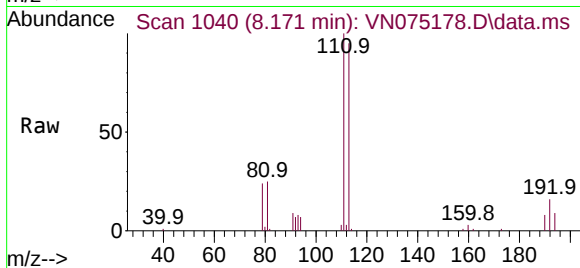
Tgt Ion:113 Resp: 59930

Ion Ratio Lower Upper

113 100

111 104.7 80.5 120.7

192 16.3 13.2 19.8



#36

1,1-Dichloropropene

Concen: 4.968 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

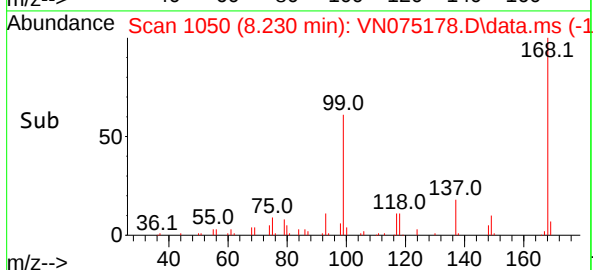
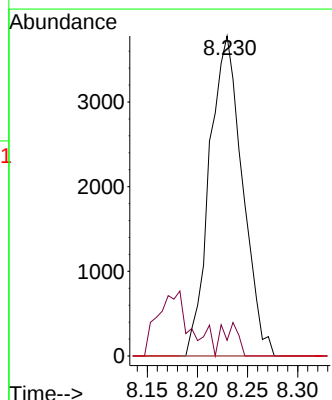
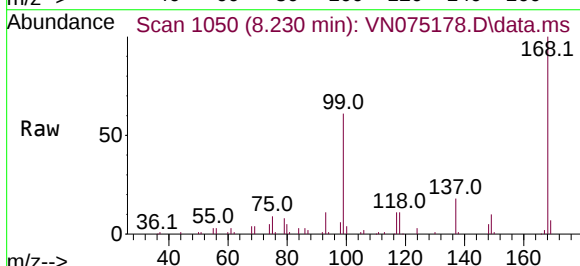
Tgt Ion: 75 Resp: 8637

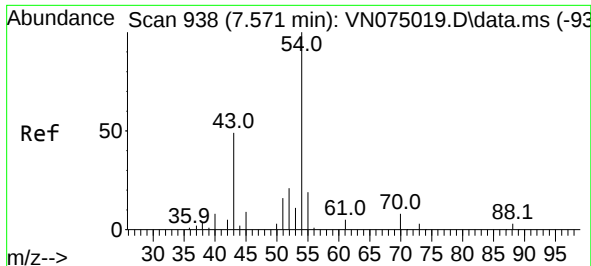
Ion Ratio Lower Upper

75 100

110 4.9 17.8 53.3#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 6.696 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

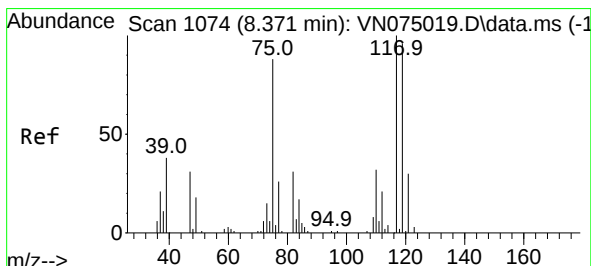
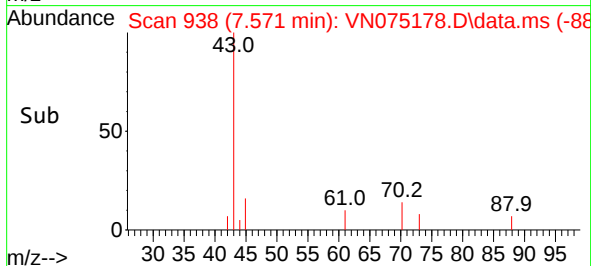
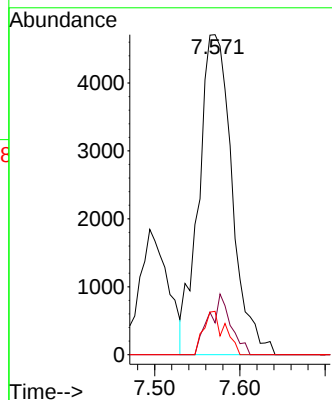
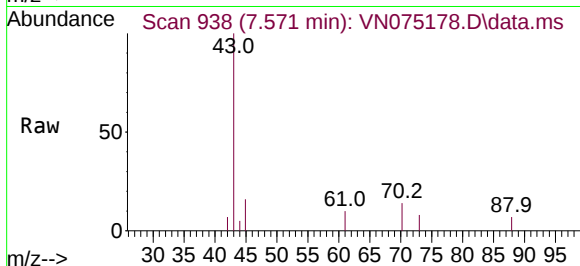
Instrument :

MSVOA_N

ClientSampleId :

LFR-SOIL-1103

Tgt Ion:	43	Resp:	12768
Ion	Ratio	Lower	Upper
43	100		
61	12.5	12.2	18.4
70	8.7	9.4	14.2#



#38

Carbon Tetrachloride

Concen: 5.629 ug/l

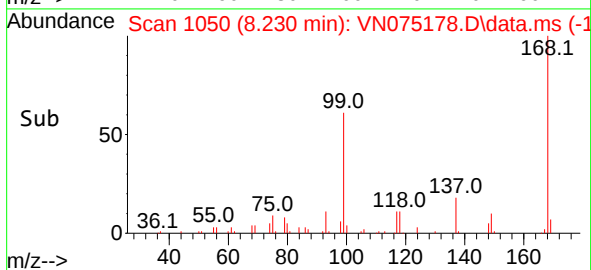
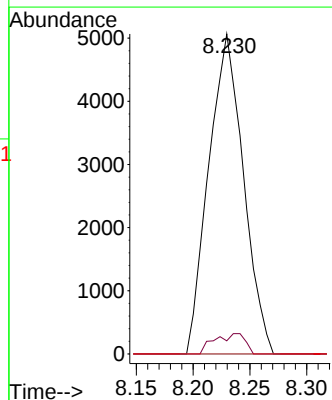
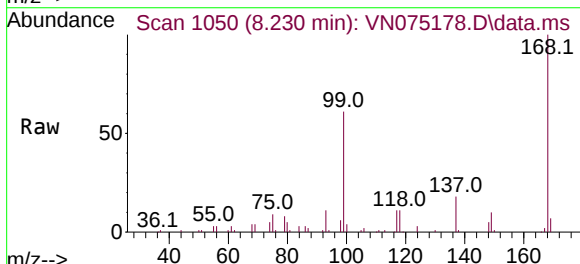
RT: 8.230 min Scan# 1050

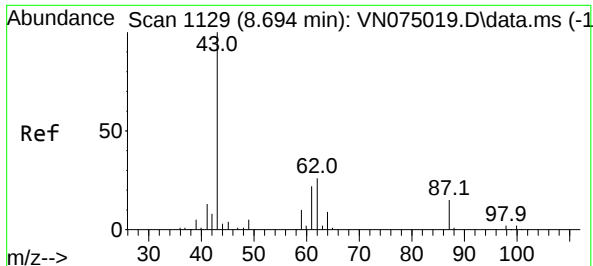
Delta R.T. -0.141 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

Tgt Ion:	117	Resp:	10766
Ion	Ratio	Lower	Upper
117	100		
119	4.1	76.7	115.1#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 38.224 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

LFR-SOIL-1103

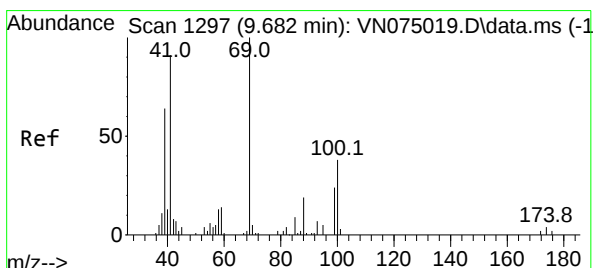
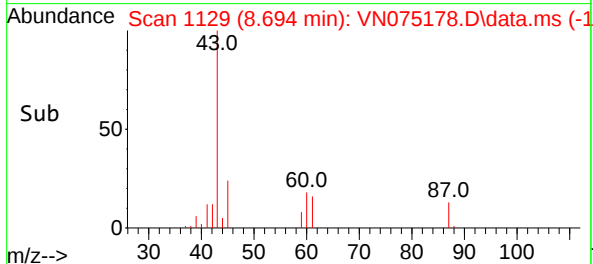
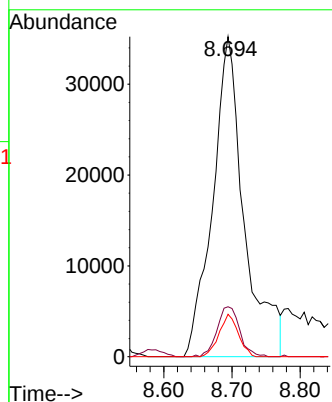
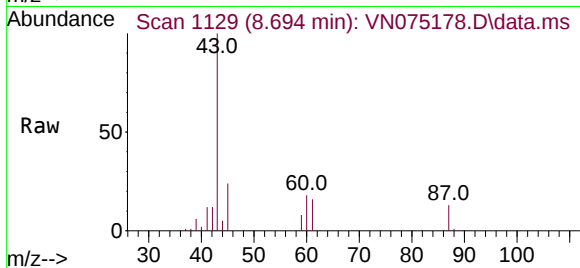
Tgt Ion: 43 Resp: 113048

Ion Ratio Lower Upper

43 100

61 11.2 22.4 33.6#

87 8.1 12.5 18.7#



#48

Methyl methacrylate

Concen: 1.511 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.011 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

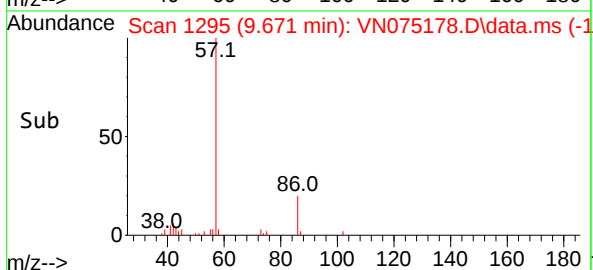
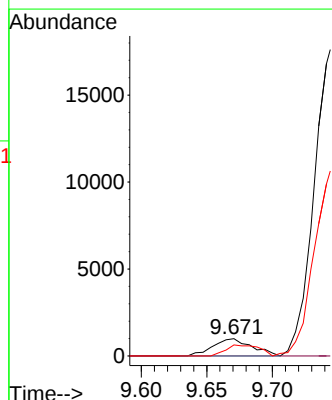
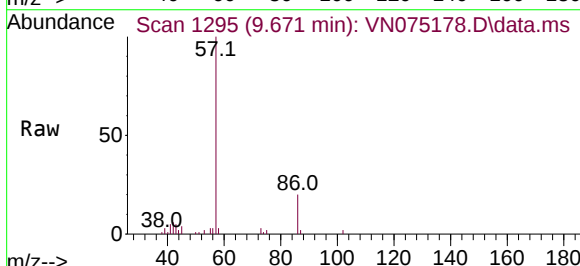
Tgt Ion: 41 Resp: 2050

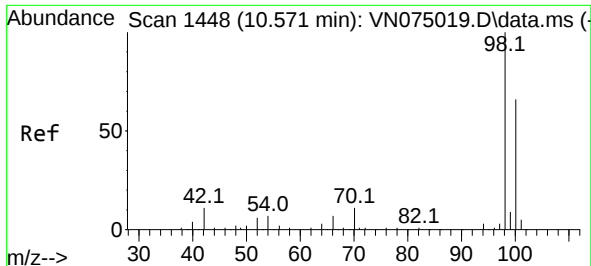
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 54.7 56.2 84.2#

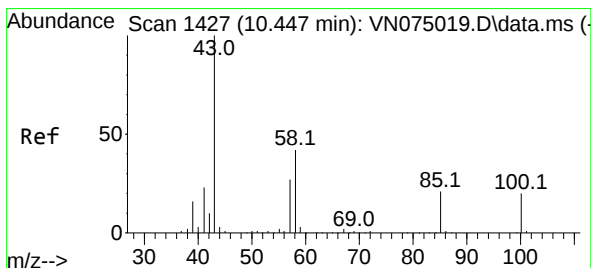
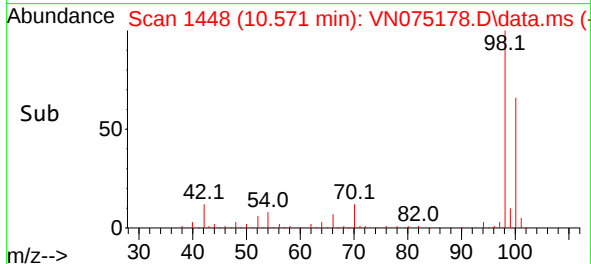
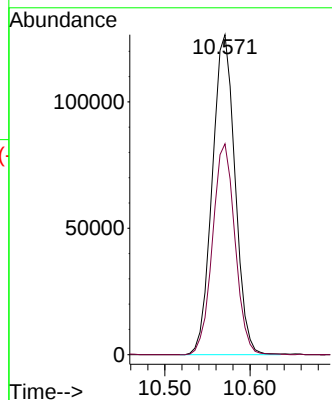
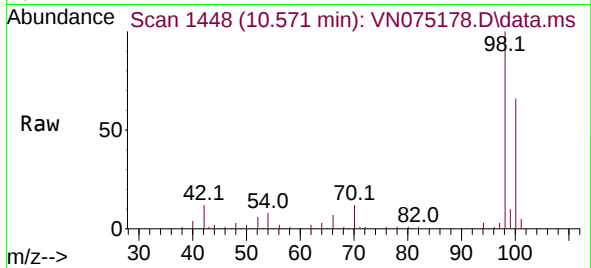




#50
Toluene-d8
Concen: 53.920 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

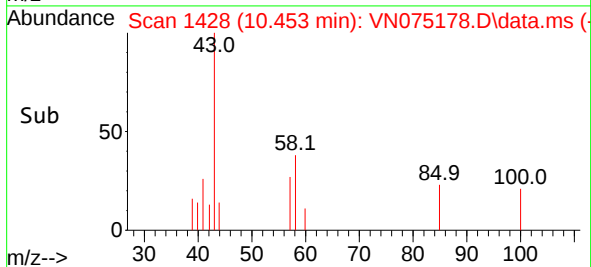
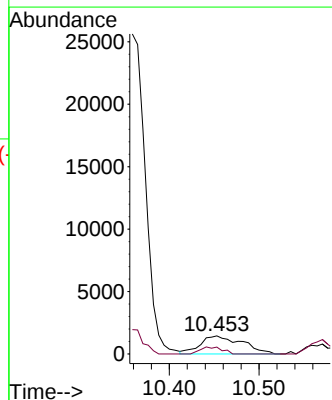
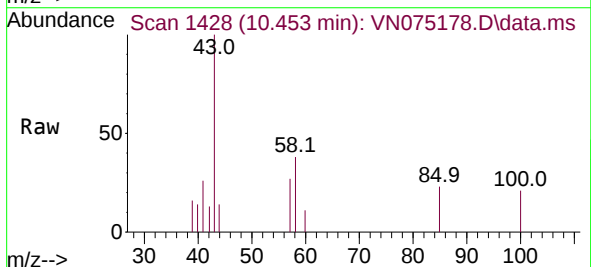
Instrument :
MSVOA_N
ClientSampleId :
LFR-SOIL-1103

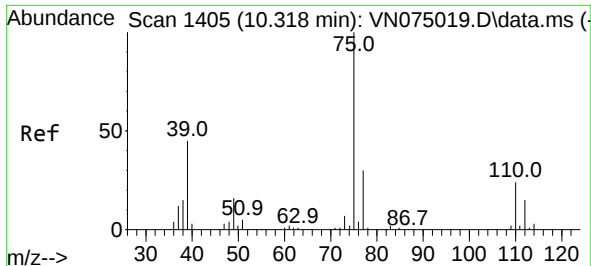
Tgt Ion: 98 Resp: 234925
Ion Ratio Lower Upper
98 100
100 65.1 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 2.484 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

Tgt Ion: 43 Resp: 4740
Ion Ratio Lower Upper
43 100
58 20.0 33.6 50.4#

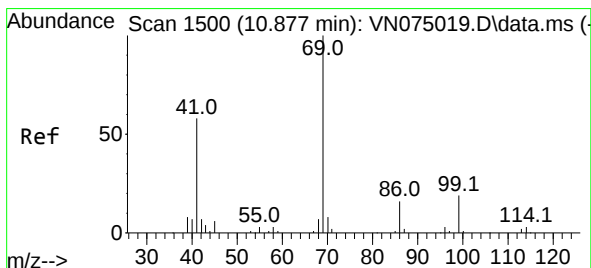
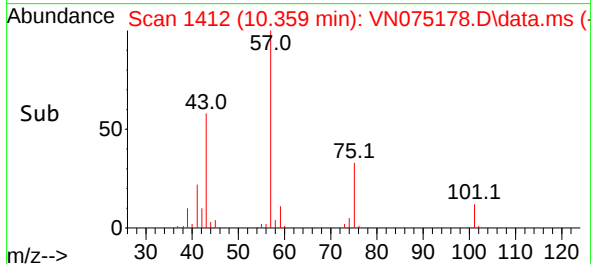
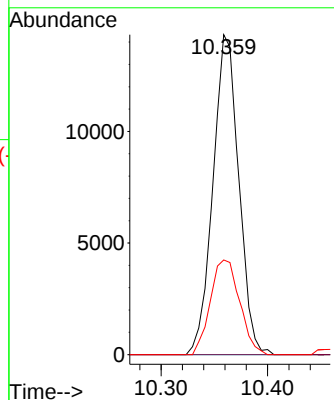
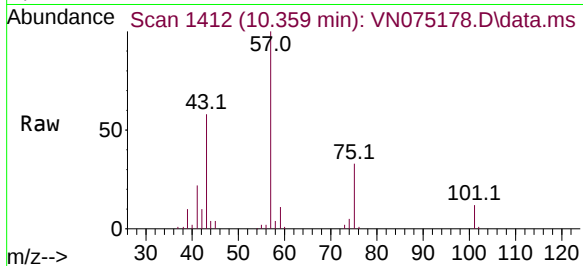




#54
 cis-1,3-Dichloropropene
 Concen: 11.268 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.041 min
 Lab File: VN075178.D
 Acq: 04 Nov 2022 16:33

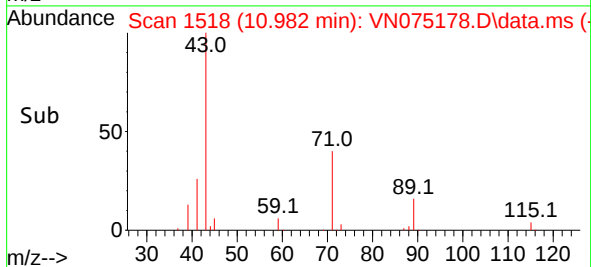
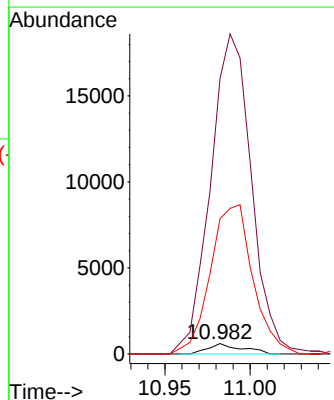
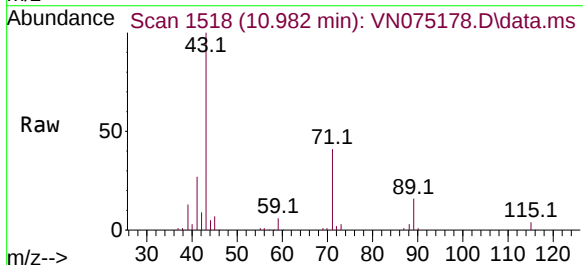
Instrument :
 MSVOA_N
 ClientSampleId :
 LFR-SOIL-1103

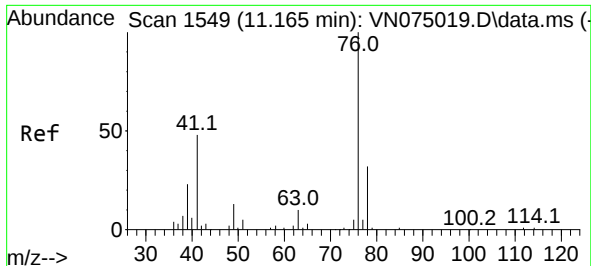
Tgt Ion: 75 Resp: 24111
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.7 35.5#
 39 29.6 35.8 53.6#



#56
 Ethyl methacrylate
 Concen: 0.387 ug/l
 RT: 10.982 min Scan# 1518
 Delta R.T. 0.105 min
 Lab File: VN075178.D
 Acq: 04 Nov 2022 16:33

Tgt Ion: 69 Resp: 832
 Ion Ratio Lower Upper
 69 100
 41 3741.2 45.6 68.4#
 39 1804.1 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 0.970 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

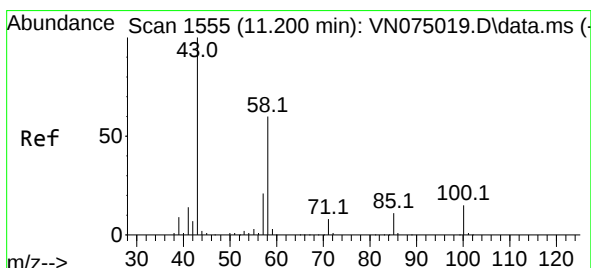
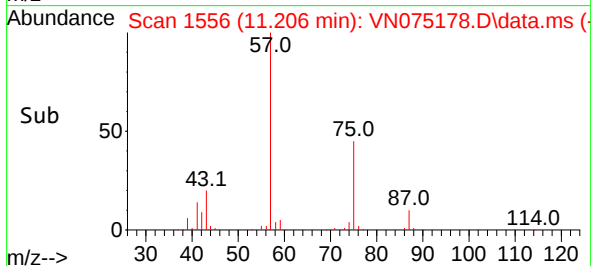
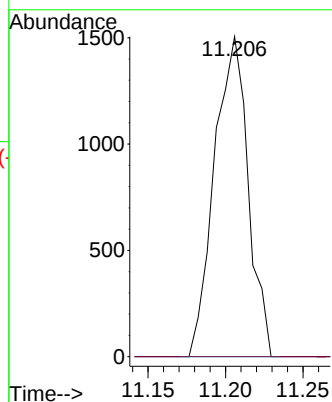
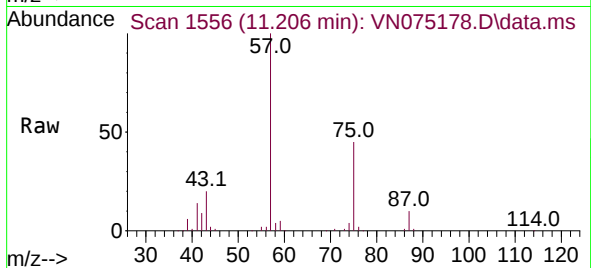
LFR-SOIL-1103

Tgt Ion: 76 Resp: 2279

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 56.690 ug/l

RT: 11.176 min Scan# 1551

Delta R.T. -0.024 min

Lab File: VN075178.D

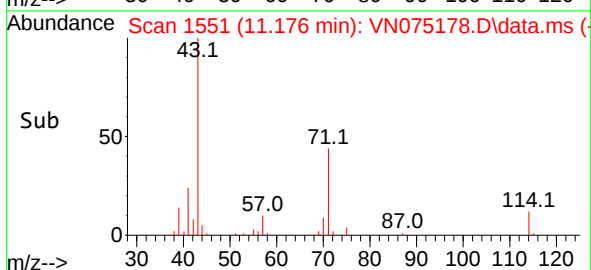
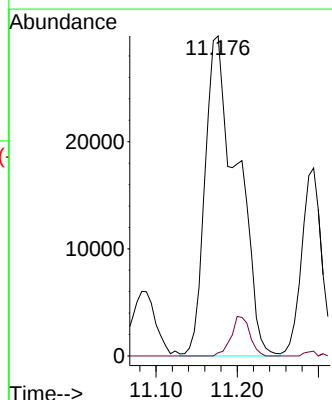
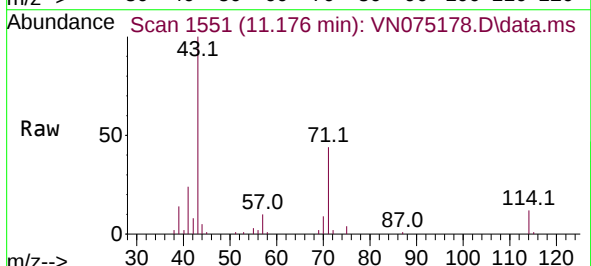
Acq: 04 Nov 2022 16:33

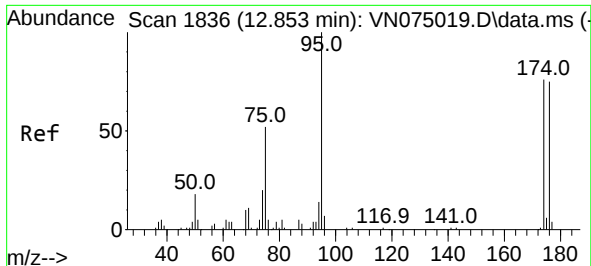
Tgt Ion: 43 Resp: 82114

Ion Ratio Lower Upper

43 100

58 0.0 29.6 88.8#





#62

4-Bromofluorobenzene

Concen: 48.073 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. -0.006 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

LFR-SOIL-1103

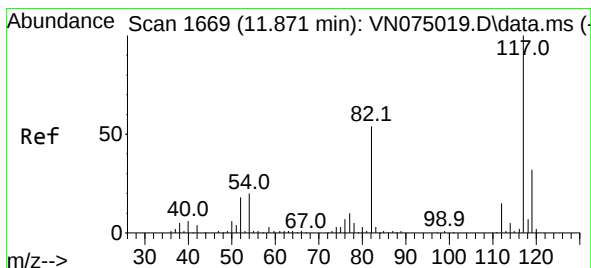
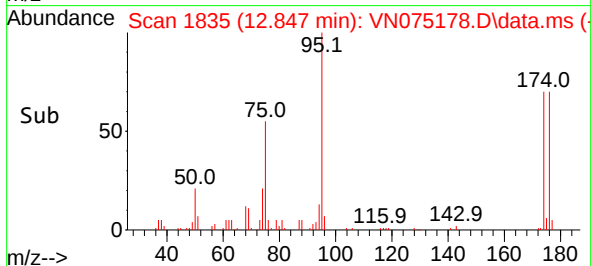
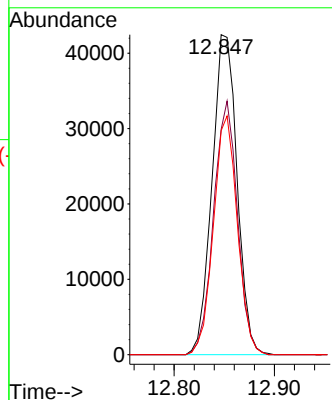
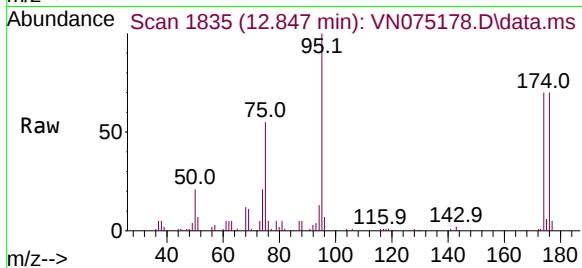
Tgt Ion: 95 Resp: 73575

Ion Ratio Lower Upper

95 100

174 75.5 0.0 147.4

176 71.4 0.0 142.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1669

Delta R.T. -0.001 min

Lab File: VN075178.D

Acq: 04 Nov 2022 16:33

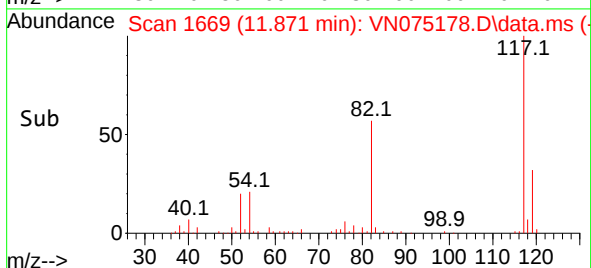
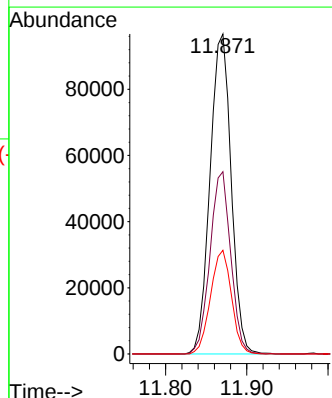
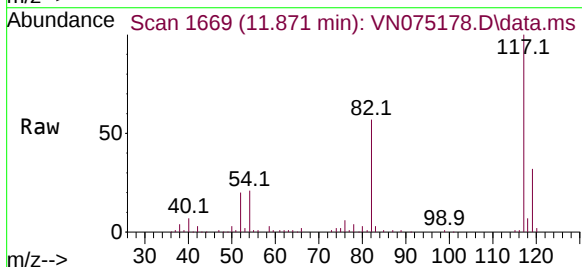
Tgt Ion: 117 Resp: 174812

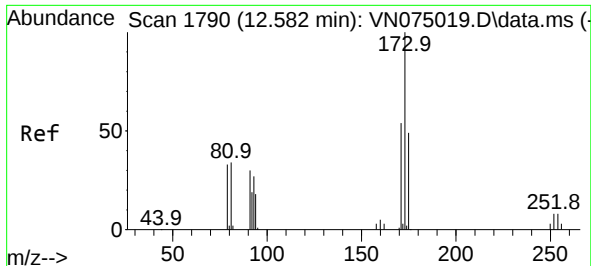
Ion Ratio Lower Upper

117 100

82 57.0 43.1 64.7

119 32.4 25.5 38.3

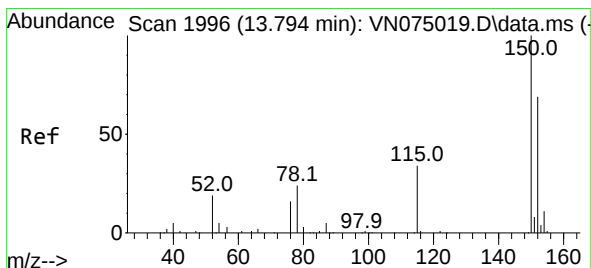
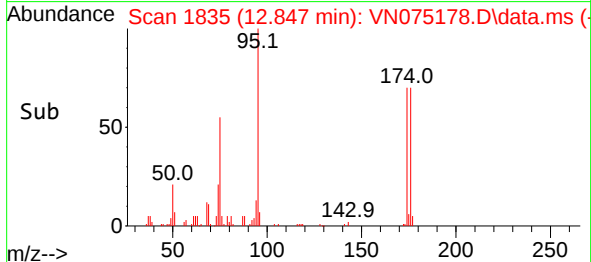
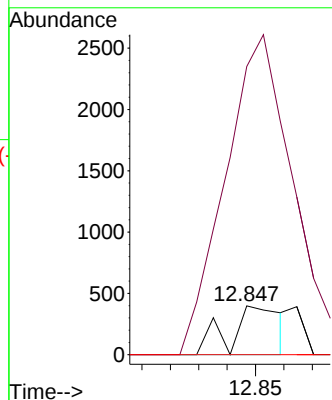
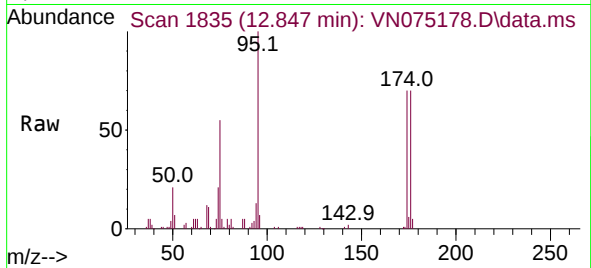




#71
Bromoform
Concen: 0.479 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

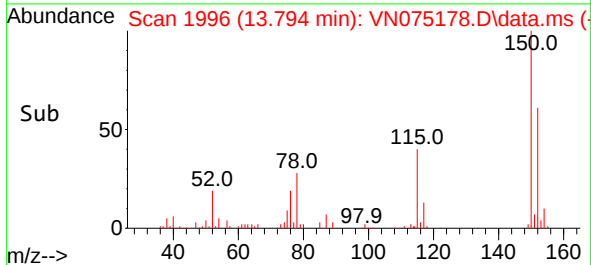
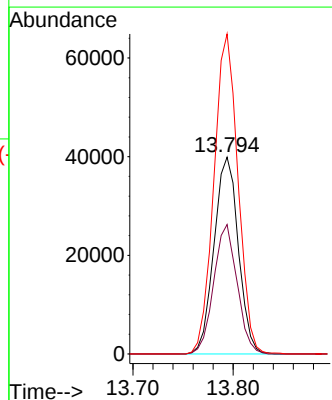
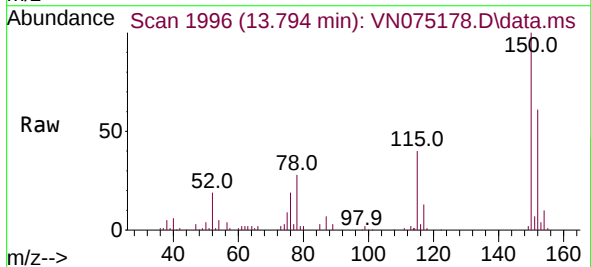
Instrument :
MSVOA_N
ClientSampleId :
LFR-SOIL-1103

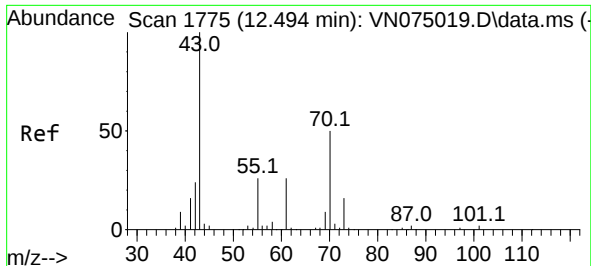
Tgt Ion:173 Resp: 496
Ion Ratio Lower Upper
173 100
175 706.7 24.6 74.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

Tgt Ion:152 Resp: 67147
Ion Ratio Lower Upper
152 100
115 63.5 30.2 90.6
150 160.7 0.0 348.4

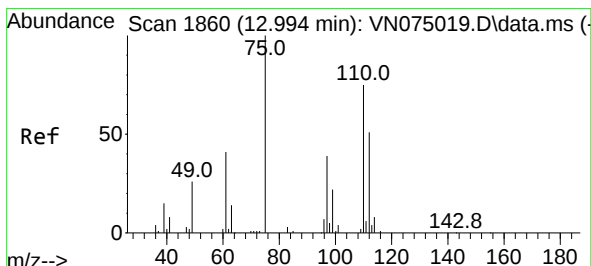
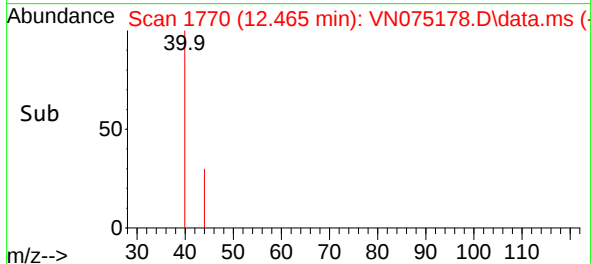
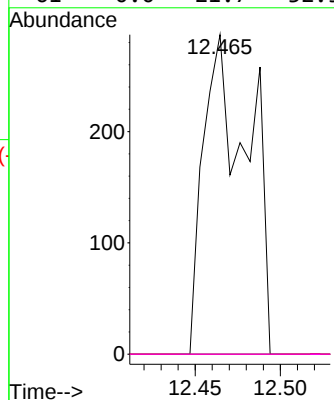
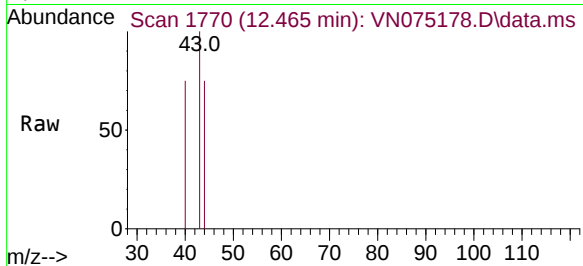




#74
N-amy1 acetate
Concen: 0.261 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

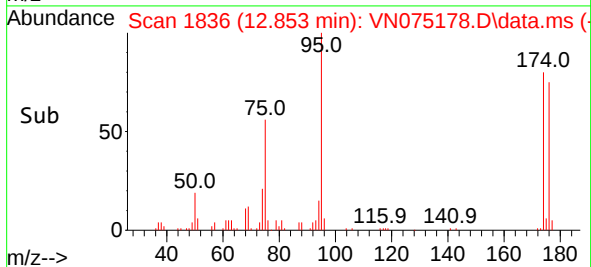
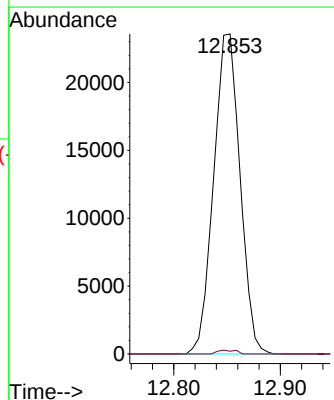
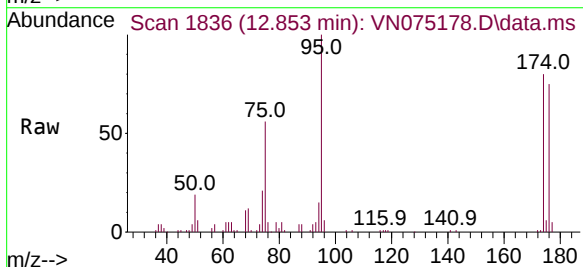
Instrument :
MSVOA_N
ClientSampleId :
LFR-SOIL-1103

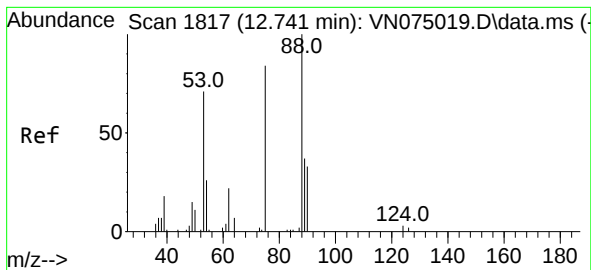
Tgt Ion: 43	Resp:	520
Ion	Ratio	Lower Upper
43	100	
70	0.0	39.8 59.8#
55	0.0	19.9 29.9#
61	0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 28.420 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075178.D
Acq: 04 Nov 2022 16:33

Tgt Ion: 75	Resp:	40518
Ion	Ratio	Lower Upper
75	100	
77	0.8	75.6 226.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.953 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN075178.D
 Acq: 04 Nov 2022 16:33

Instrument :
 MSVOA_N
 ClientSampleId :
 LFR-SOIL-1103

Tgt Ion: 75 Resp: 40518
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.7 56.5#

