

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086054.D
 Acq On : 21 Mar 2025 20:54
 Operator : JC\MD
 Sample : Q1605-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-SOIL-CUTTING

Quant Time: Mar 21 23:05:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

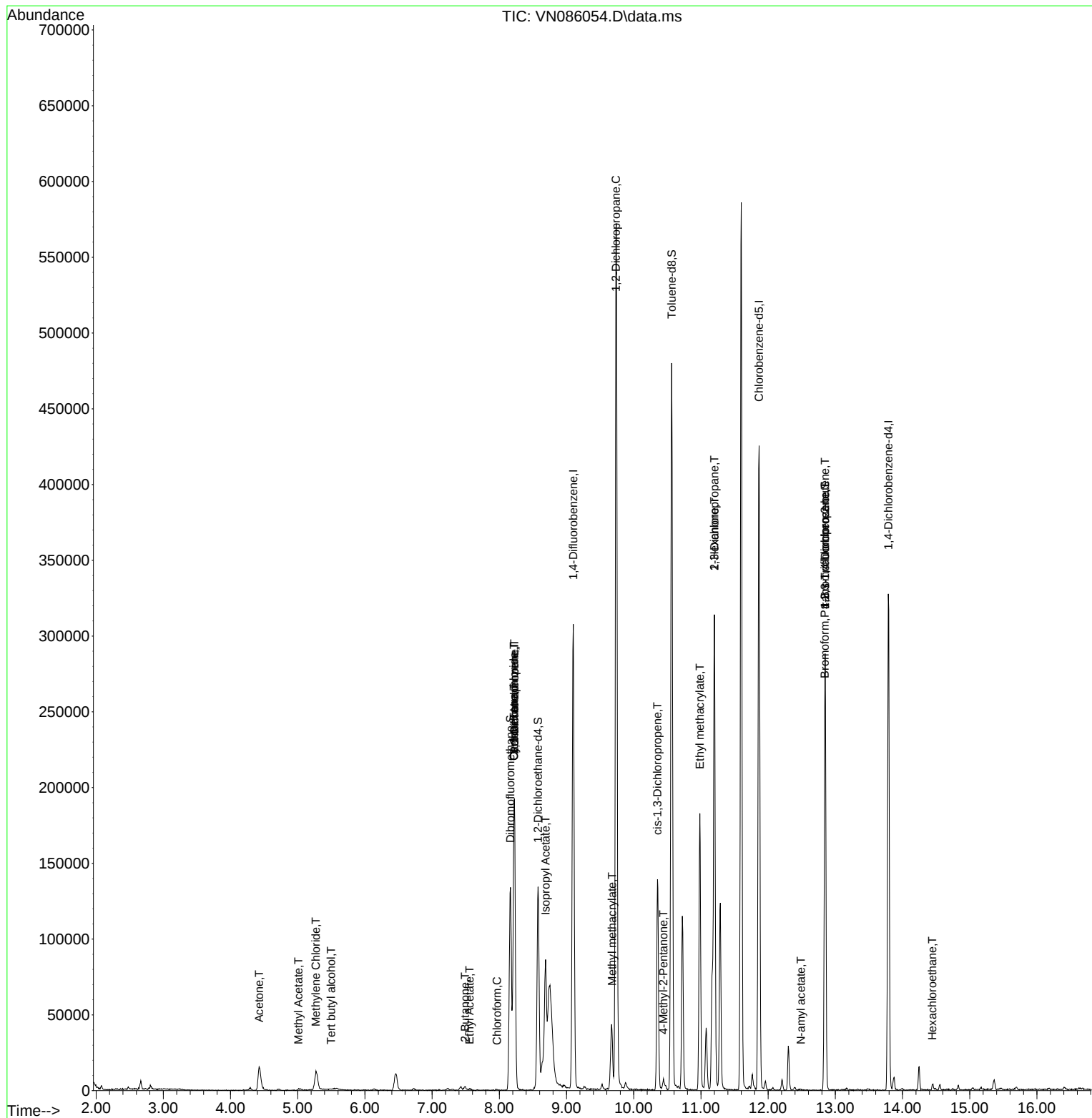
Internal Standards						
1) Pentafluorobenzene	8.224	168	141109	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	267640	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256655	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	94491	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	112227	58.081	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.160%			
35) Dibromofluoromethane	8.165	113	96575	51.697	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.400%			
50) Toluene-d8	10.565	98	343631	50.684	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.360%			
62) 4-Bromofluorobenzene	12.847	95	99563	41.177	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 82.360%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.495	59	371	1.356	ug/l #	73
16) Acetone	4.424	43	29581	50.110	ug/l	88
18) Methyl Acetate	5.012	43	854	0.585	ug/l #	69
20) Methylene Chloride	5.271	84	10097	5.847	ug/l #	90
25) 2-Butanone	7.489	43	4114	4.830	ug/l #	85
30) Chloroform	7.965	83	769	0.246	ug/l #	83
31) Cyclohexane	8.218	56	2643	1.098	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	11396	4.633	ug/l #	50
37) Ethyl Acetate	7.559	43	1805	0.870	ug/l #	68
38) Carbon Tetrachloride	8.218	117	15534	4.803	ug/l #	17
43) Isopropyl Acetate	8.688	43	106988	23.792	ug/l #	77
45) 1,2-Dichloropropane	9.735	63	909	0.518	ug/l #	44
48) Methyl methacrylate	9.677	41	6134	4.134	ug/l #	78
51) 4-Methyl-2-Pentanone	10.441	43	3653	1.842	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	26687	9.022	ug/l #	67
56) Ethyl methacrylate	10.982	69	1807	0.979	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3437	1.119	ug/l #	42
59) 2-Hexanone	11.200	43	34445	23.841	ug/l #	53
71) Bromoform	12.841	173	690	0.378	ug/l #	1
74) N-amyl acetate	12.488	43	1015	0.470	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	50153	23.708	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	50153	62.679	ug/l #	16
90) Hexachloroethane	14.441	117	294	0.248	ug/l #	10

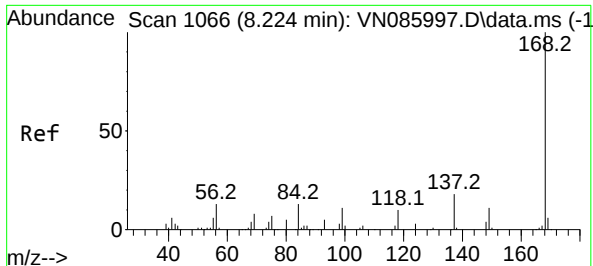
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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DRUM-SOIL-CUTTING

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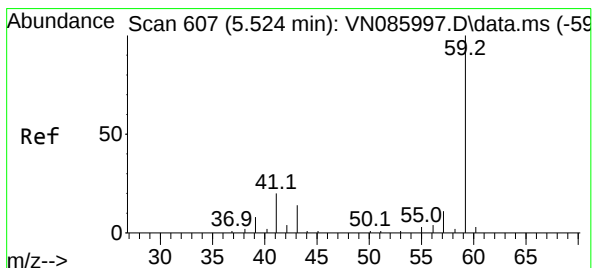
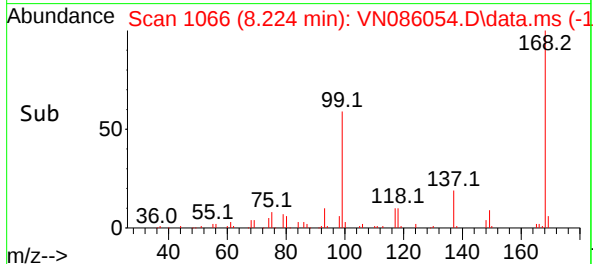
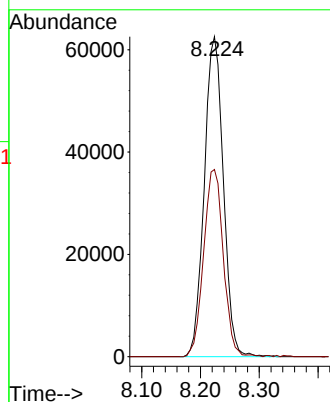
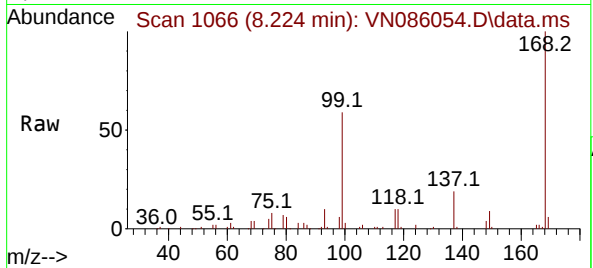




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

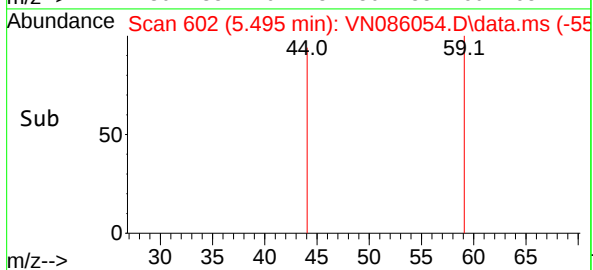
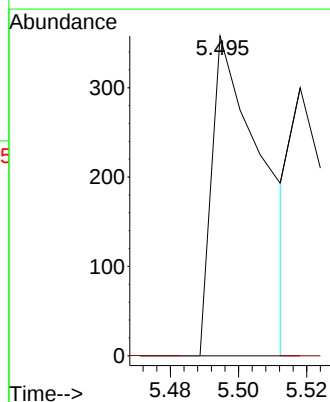
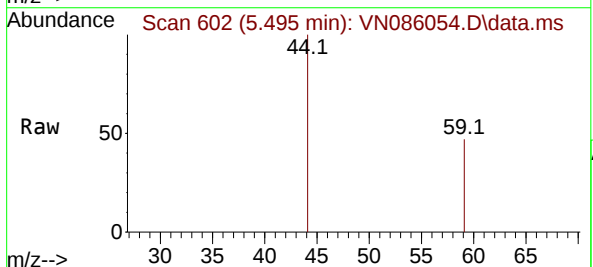
Instrument :
MSVOA_N
ClientSampleId :
DRUM-SOIL-CUTTING

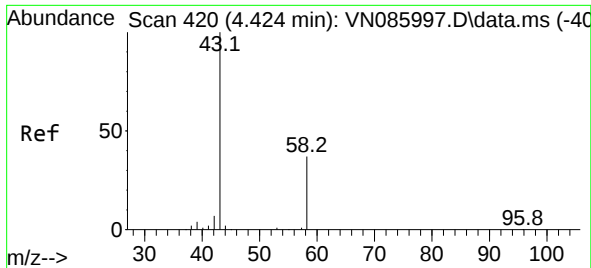
Tgt Ion:168 Resp: 141109
Ion Ratio Lower Upper
168 100
99 58.5 49.4 74.2



#11
Tert butyl alcohol
Concen: 1.356 ug/l
RT: 5.495 min Scan# 602
Delta R.T. -0.029 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion: 59 Resp: 371
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 50.110 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

Instrument :

MSVOA_N

ClientSampleId :

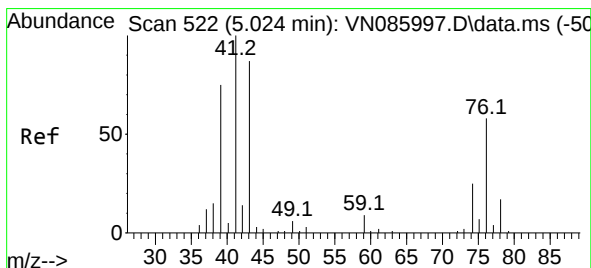
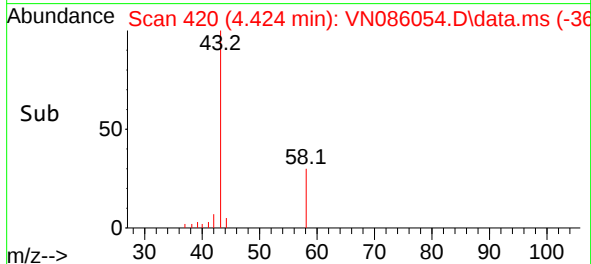
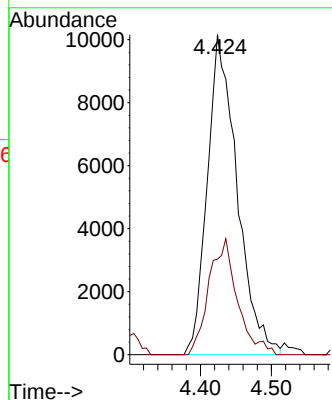
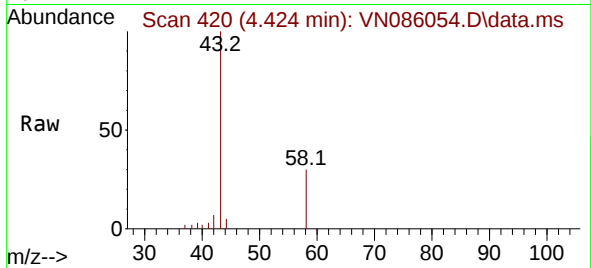
DRUM-SOIL-CUTTING

Tgt Ion: 43 Resp: 29581

Ion Ratio Lower Upper

43 100

58 29.8 29.4 44.2



#18

Methyl Acetate

Concen: 0.585 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.012 min

Lab File: VN086054.D

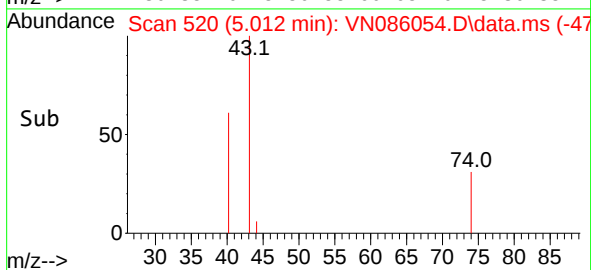
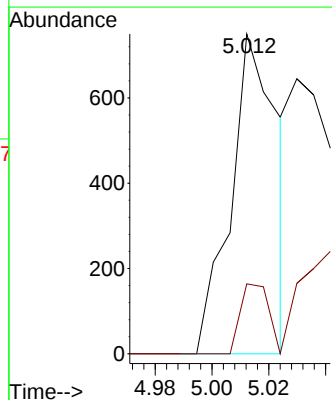
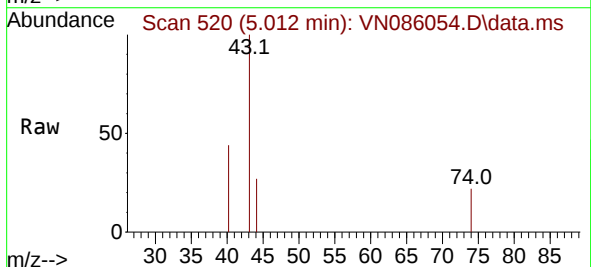
Acq: 21 Mar 2025 20:54

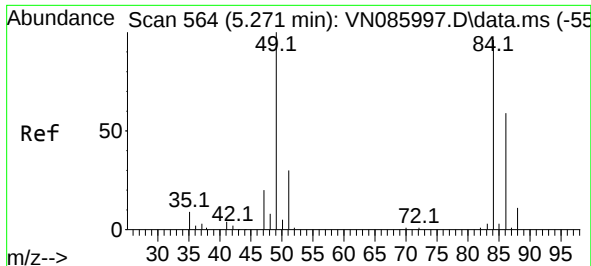
Tgt Ion: 43 Resp: 854

Ion Ratio Lower Upper

43 100

74 13.2 23.9 35.9#

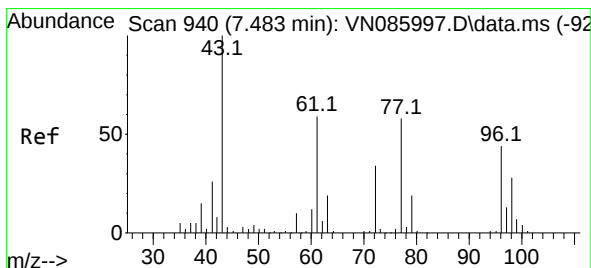
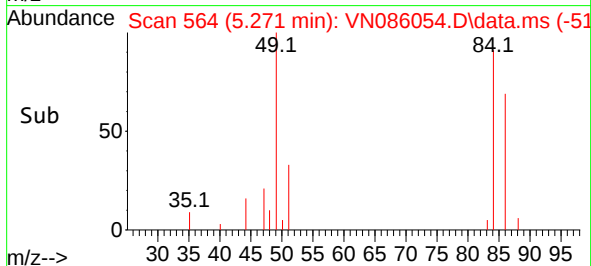
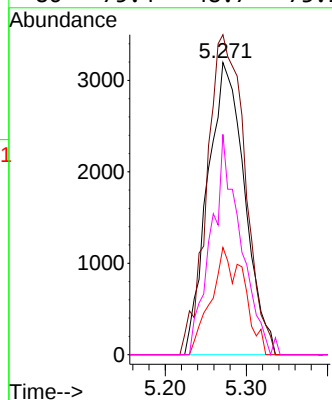
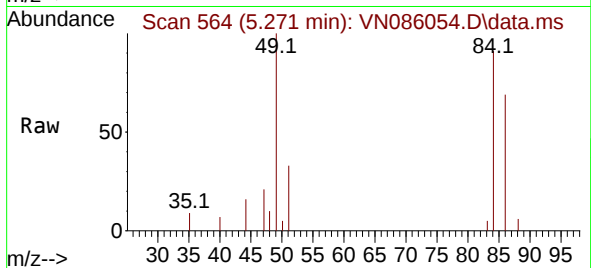




#20
Methylene Chloride
Concen: 5.847 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

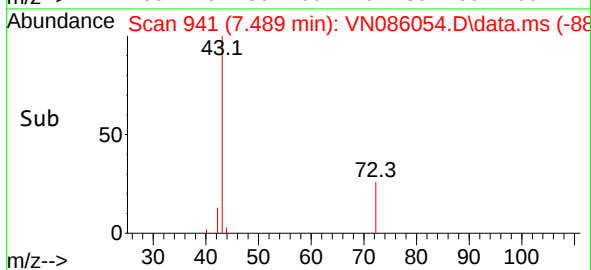
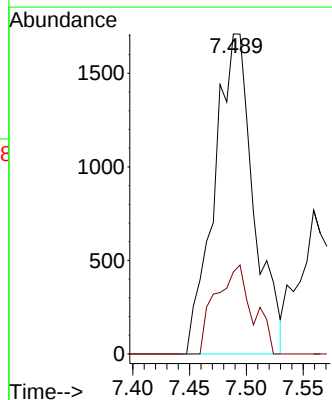
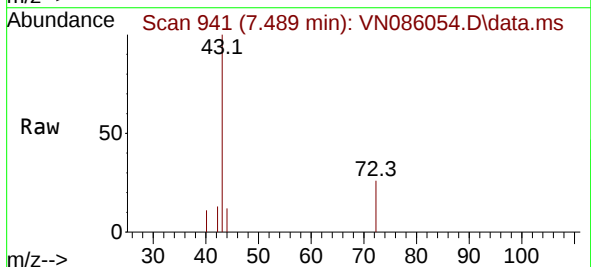
Instrument :
MSVOA_N
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DRUM-SOIL-CUTTING

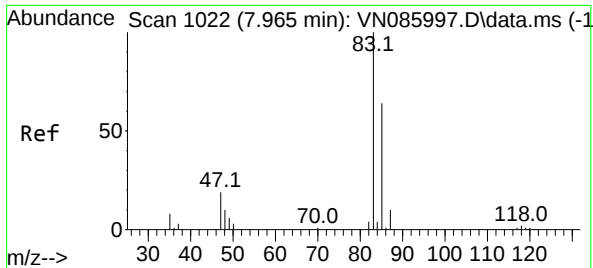
Tgt Ion:	84	Resp:	10097
Ion	Ratio	Lower	Upper
84	100		
49	109.5	83.3	124.9
51	36.7	24.8	37.2
86	75.4	48.7	73.1#



#25
2-Butanone
Concen: 4.830 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion:	43	Resp:	4114
Ion	Ratio	Lower	Upper
43	100		
72	25.6	27.4	41.0#





#30

Chloroform

Concen: 0.246 ug/l

RT: 7.965 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

Instrument :

MSVOA_N

ClientSampleId :

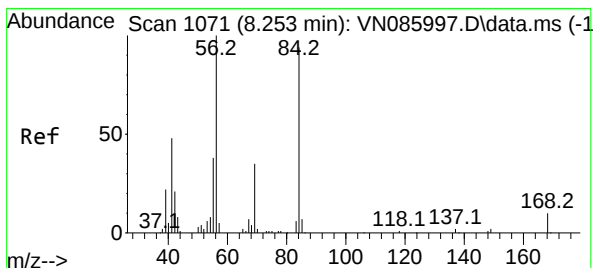
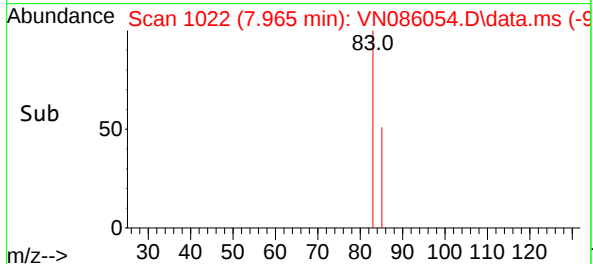
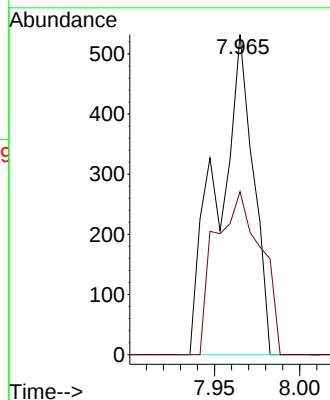
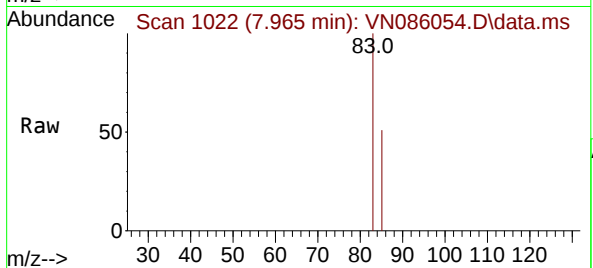
DRUM-SOIL-CUTTING

Tgt Ion: 83 Resp: 769

Ion Ratio Lower Upper

83 100

85 50.9 51.5 77.3#



#31

Cyclohexane

Concen: 1.098 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

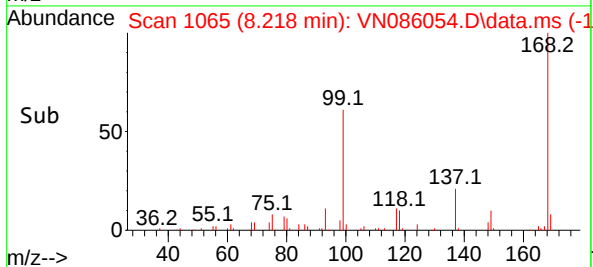
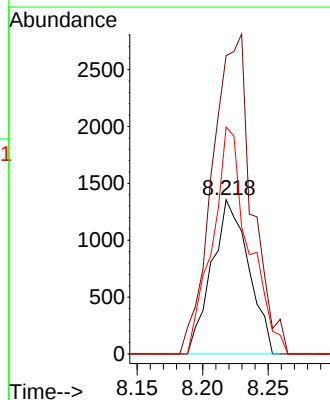
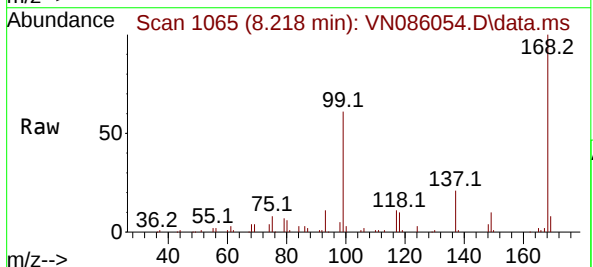
Tgt Ion: 56 Resp: 2643

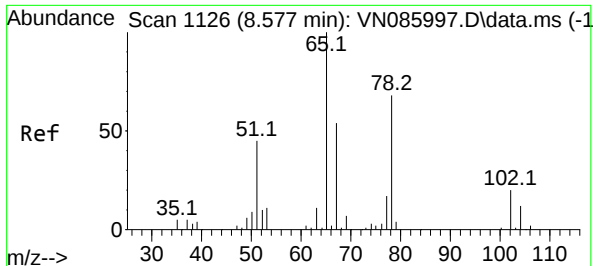
Ion Ratio Lower Upper

56 100

69 193.4 28.0 42.0#

84 147.1 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 58.081 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

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ClientSampleId :

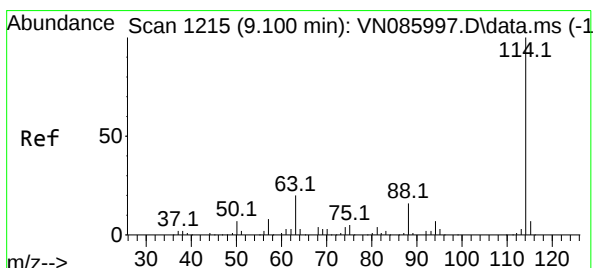
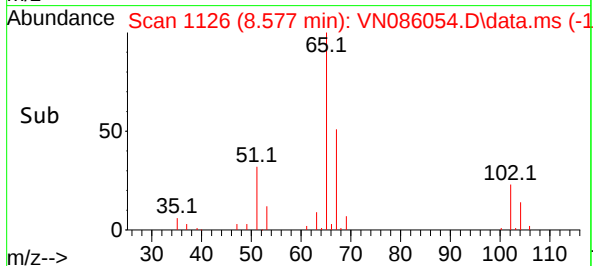
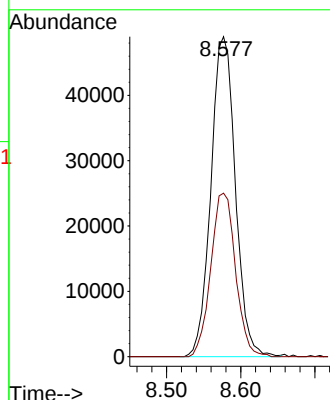
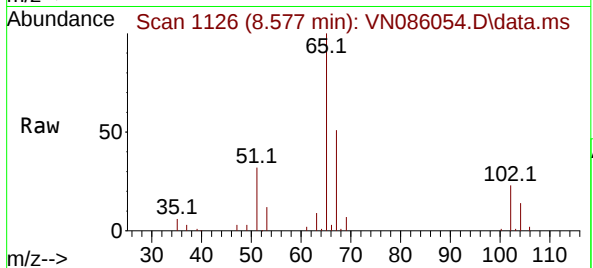
DRUM-SOIL-CUTTING

Tgt Ion: 65 Resp: 112227

Ion Ratio Lower Upper

65 100

67 51.7 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

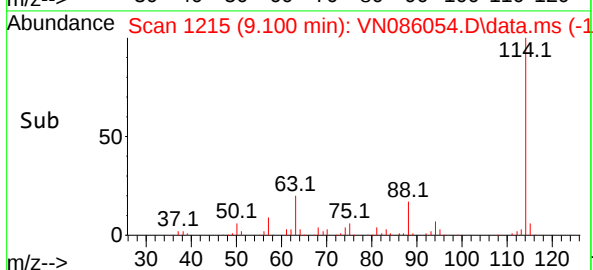
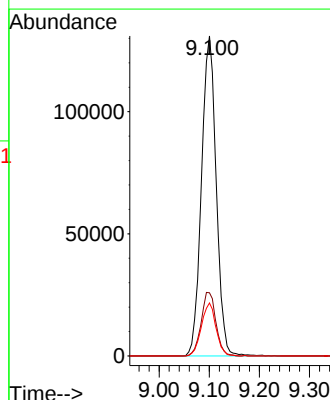
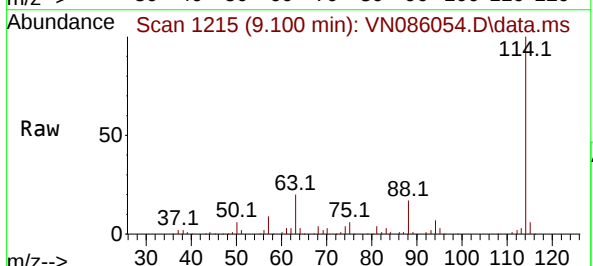
Tgt Ion: 114 Resp: 267640

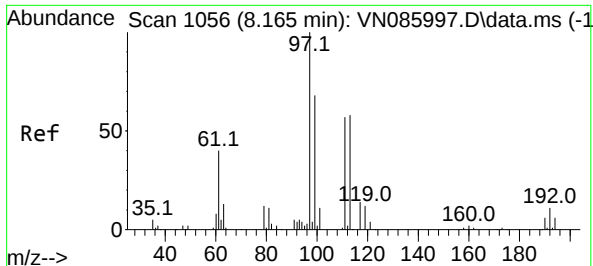
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 16.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.697 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

Instrument :

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DRUM-SOIL-CUTTING

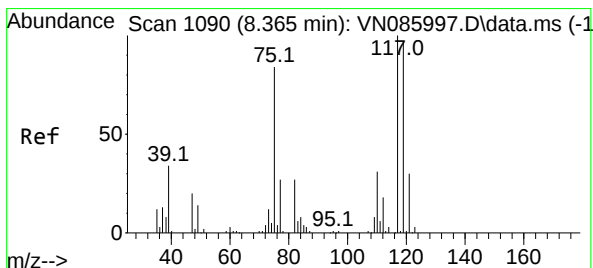
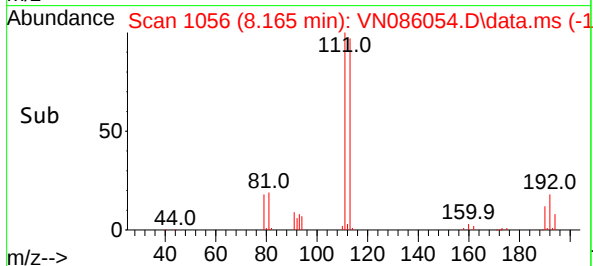
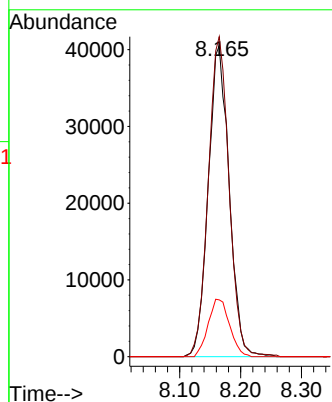
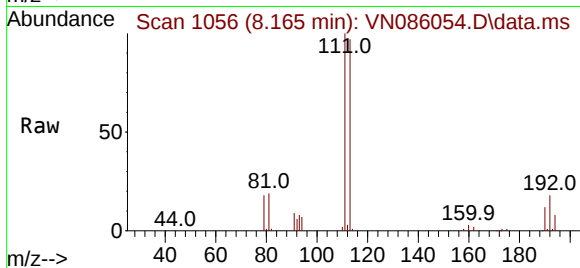
Tgt Ion:113 Resp: 96575

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.8

192 18.9 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.633 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

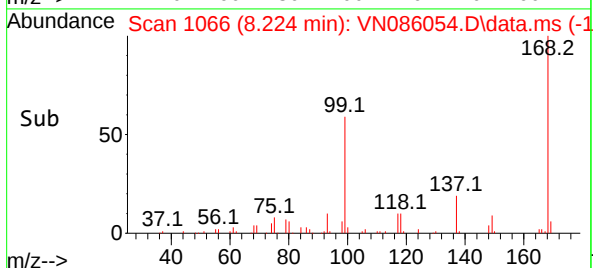
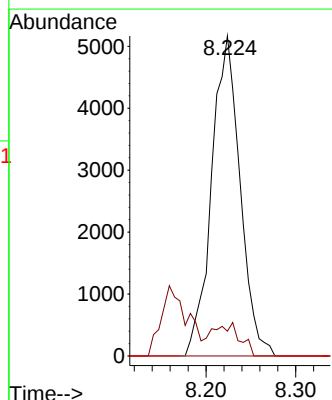
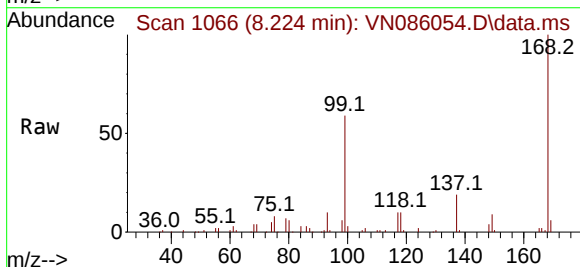
Tgt Ion: 75 Resp: 11396

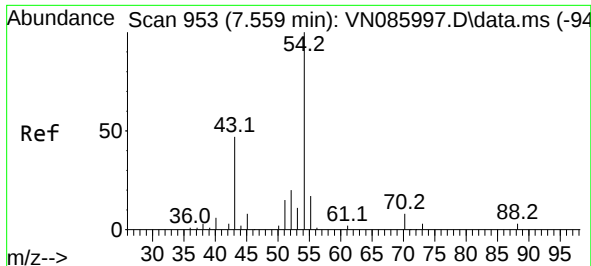
Ion Ratio Lower Upper

75 100

110 9.3 17.8 53.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.870 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

Instrument :

MSVOA_N

ClientSampleId :

DRUM-SOIL-CUTTING

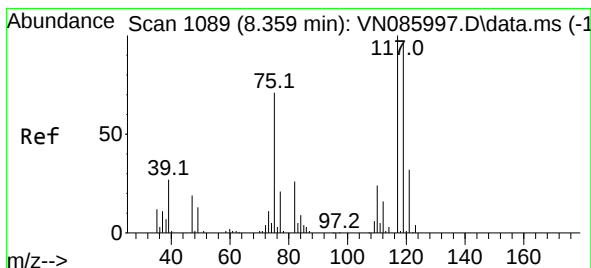
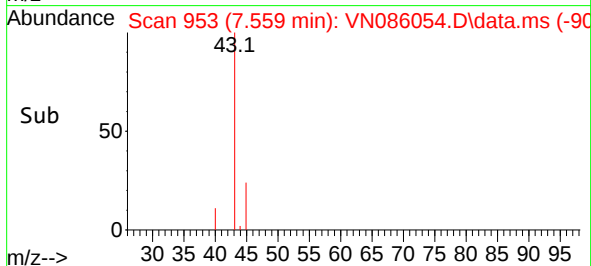
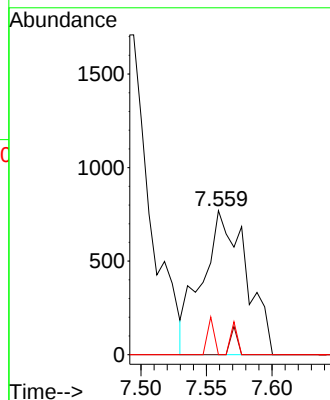
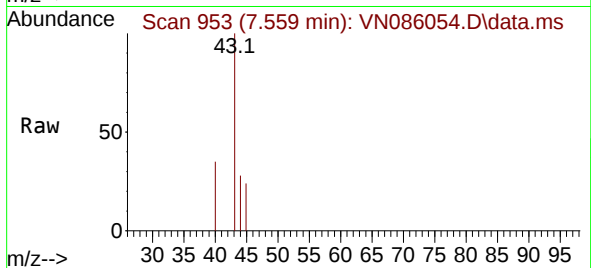
Tgt Ion: 43 Resp: 1805

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 3.9 11.0 16.6#



#38

Carbon Tetrachloride

Concen: 4.803 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

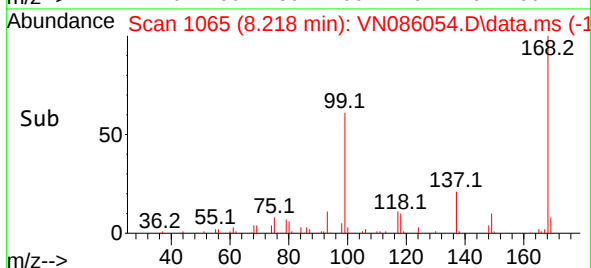
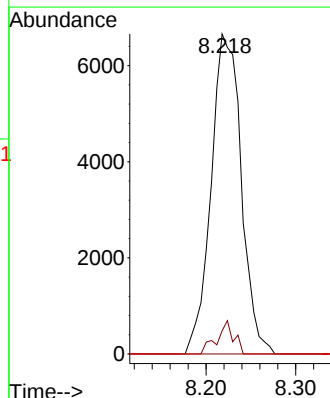
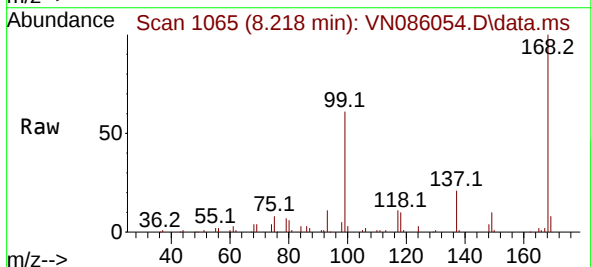
Tgt Ion: 117 Resp: 15534

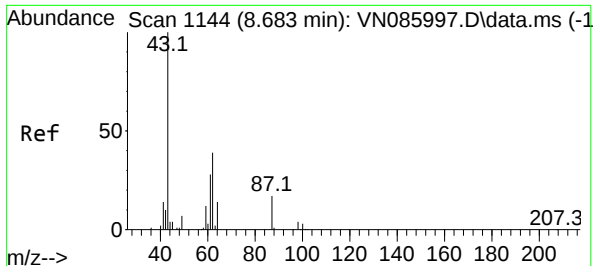
Ion Ratio Lower Upper

117 100

119 7.2 77.0 115.4#

121 0.0 25.6 38.4#

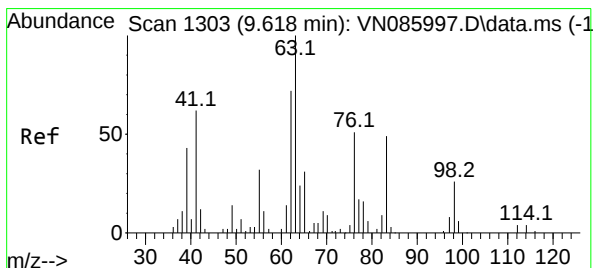
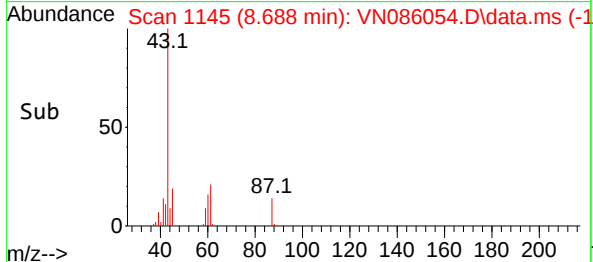
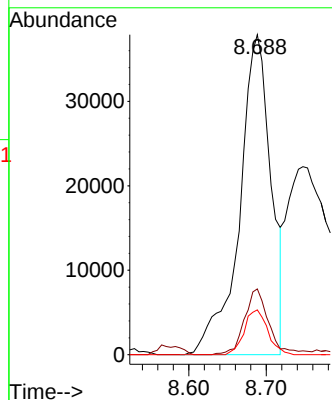
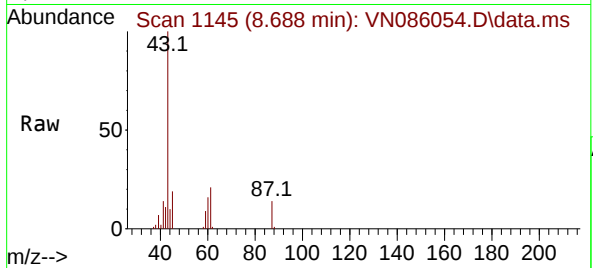




#43
Isopropyl Acetate
Concen: 23.792 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

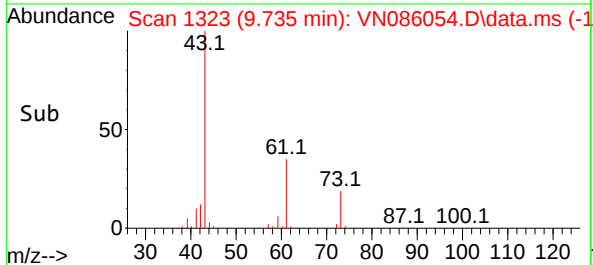
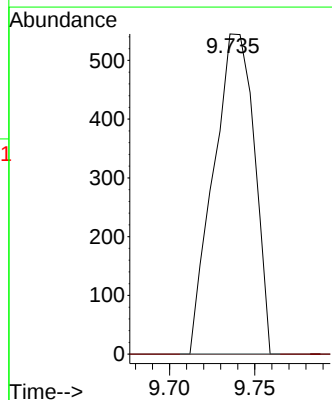
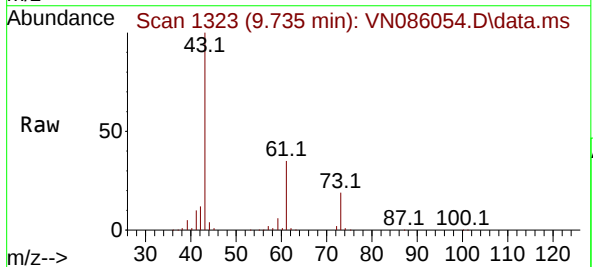
Instrument :
MSVOA_N
ClientSampleId :
DRUM-SOIL-CUTTING

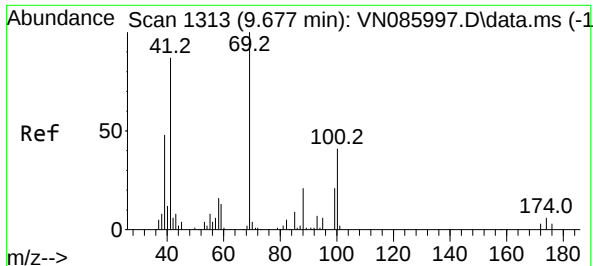
Tgt Ion: 43 Resp: 106988
Ion Ratio Lower Upper
43 100
61 16.1 25.0 37.6#
87 10.4 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.518 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion: 63 Resp: 909
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 4.134 ug/l

RT: 9.677 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086054.D

Acq: 21 Mar 2025 20:54

Instrument :

MSVOA_N

ClientSampleId :

DRUM-SOIL-CUTTING

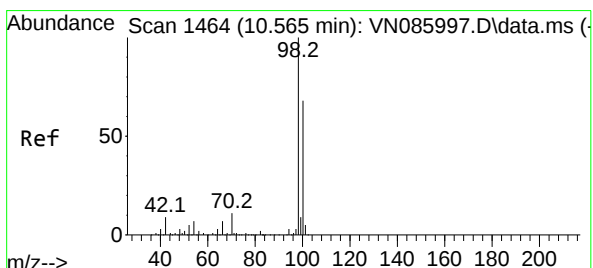
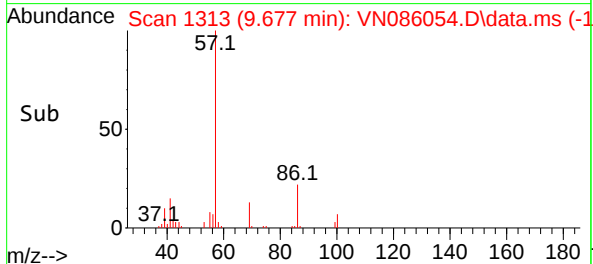
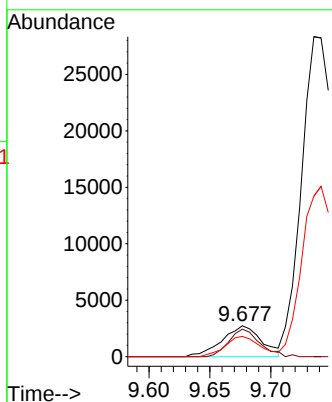
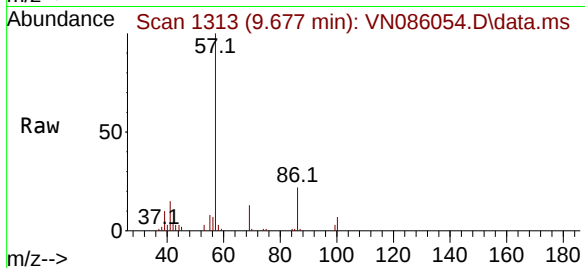
Tgt Ion: 41 Resp: 6134

Ion Ratio Lower Upper

41 100

69 69.8 83.1 124.7#

39 58.3 45.6 68.4



#50

Toluene-d8

Concen: 50.684 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086054.D

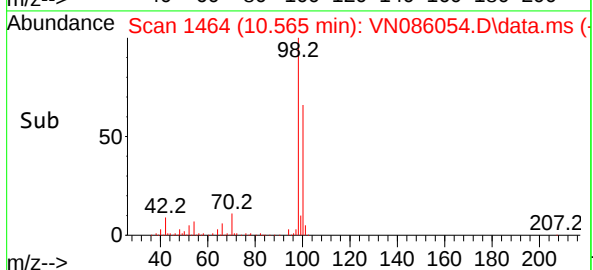
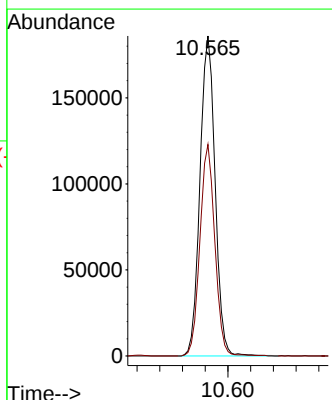
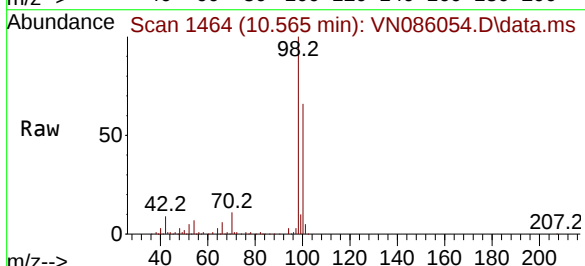
Acq: 21 Mar 2025 20:54

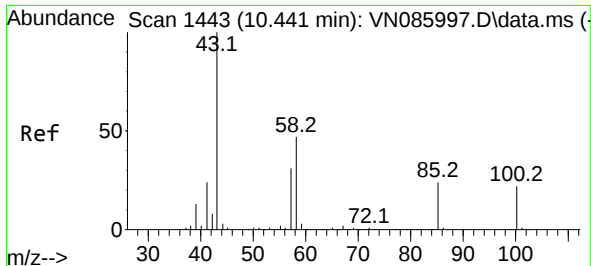
Tgt Ion: 98 Resp: 343631

Ion Ratio Lower Upper

98 100

100 65.1 53.1 79.7

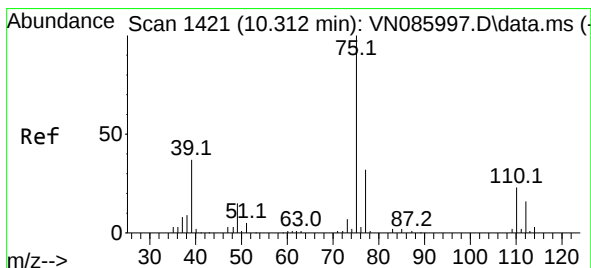
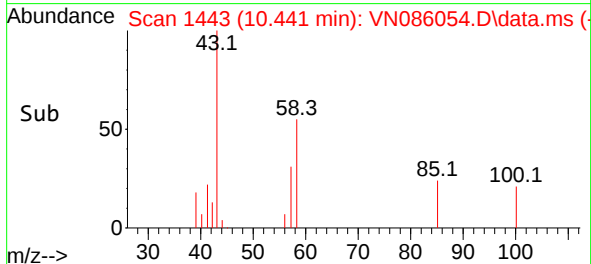
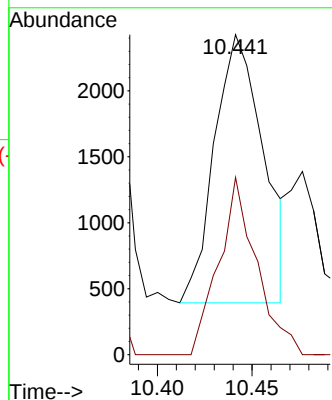
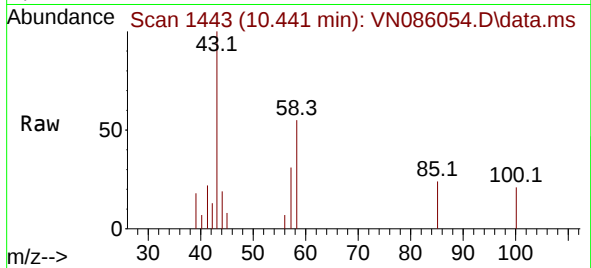




#51
4-Methyl-2-Pentanone
Concen: 1.842 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

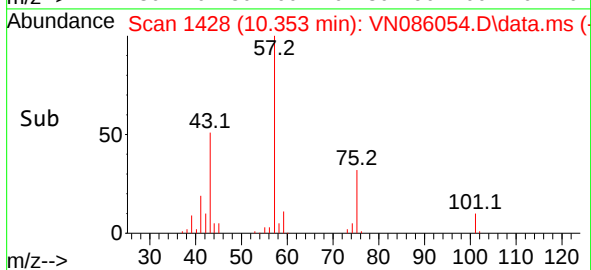
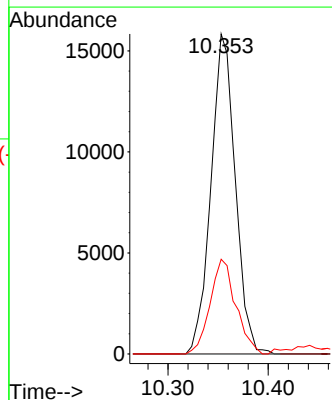
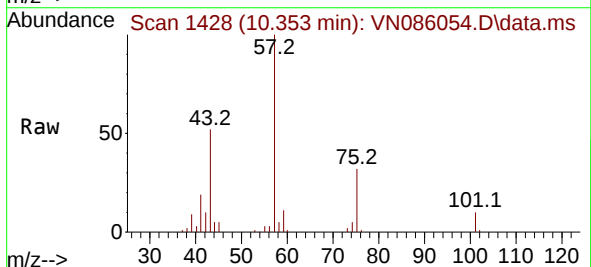
Instrument :
MSVOA_N
ClientSampleId :
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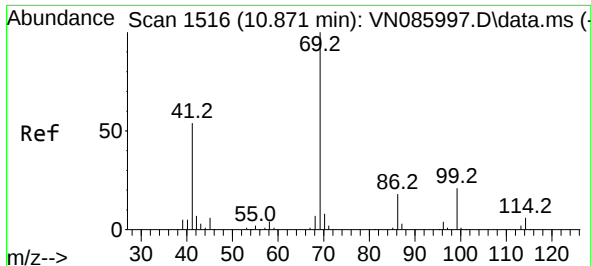
Tgt Ion: 43 Resp: 3653
Ion Ratio Lower Upper
43 100
58 51.1 37.4 56.0



#54
cis-1,3-Dichloropropene
Concen: 9.022 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion: 75 Resp: 26687
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 29.6 29.6 44.4

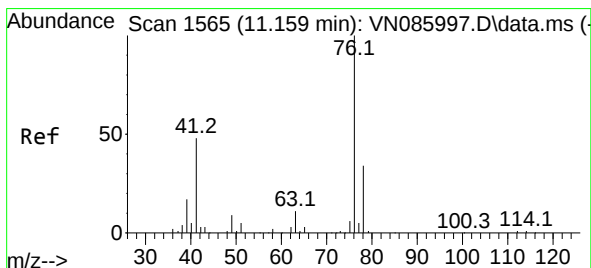
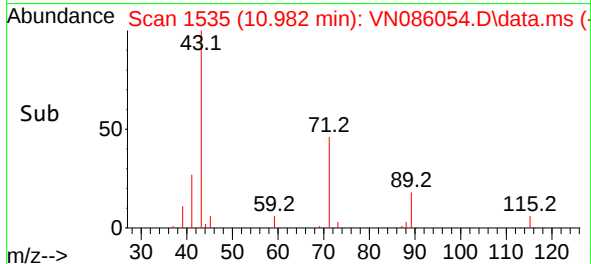
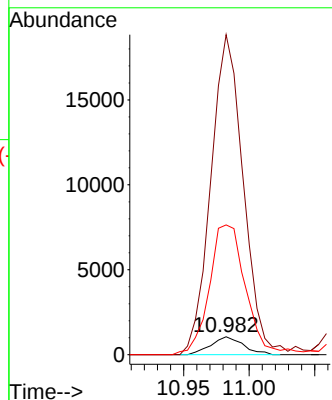
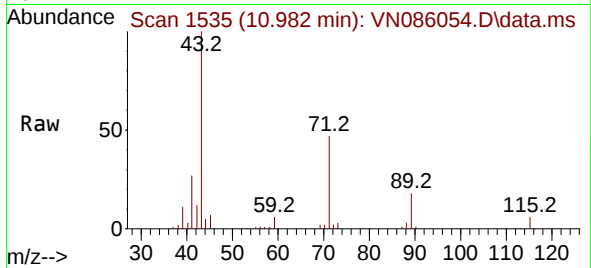




#56
Ethyl methacrylate
Concen: 0.979 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

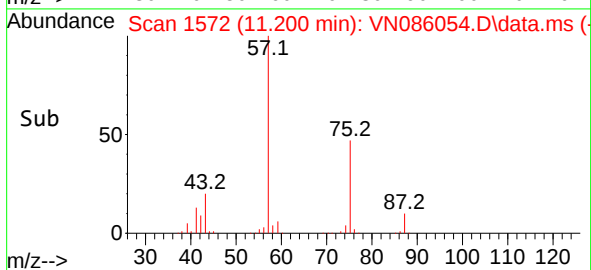
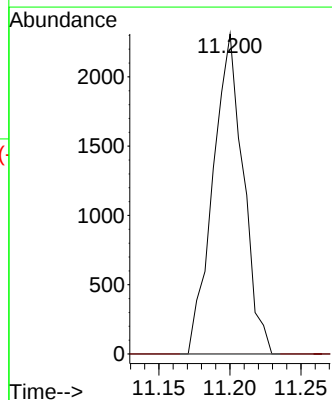
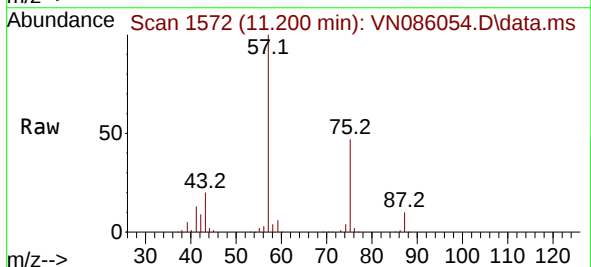
Instrument :
MSVOA_N
ClientSampleId :
DRUM-SOIL-CUTTING

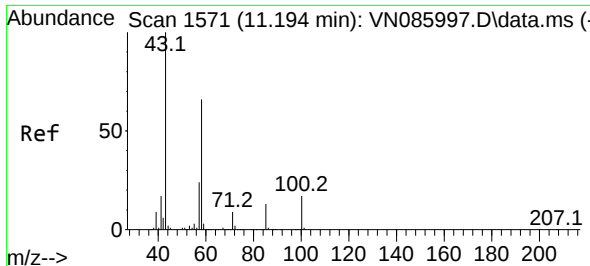
Tgt Ion: 69 Resp: 1807
Ion Ratio Lower Upper
69 100
41 1789.2 41.6 62.4#
39 816.3 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.119 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion: 76 Resp: 3437
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

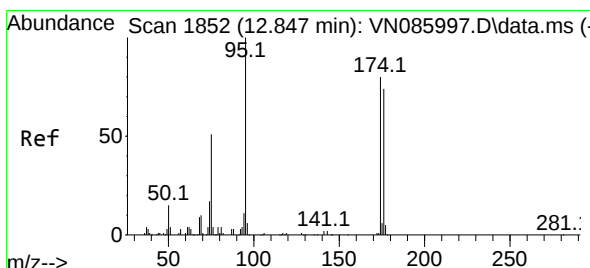
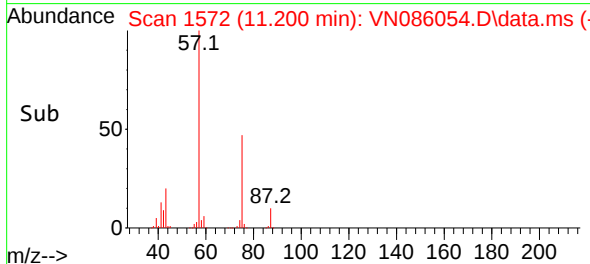
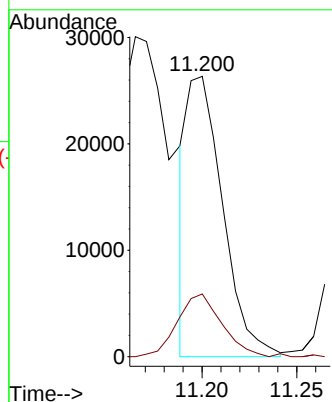
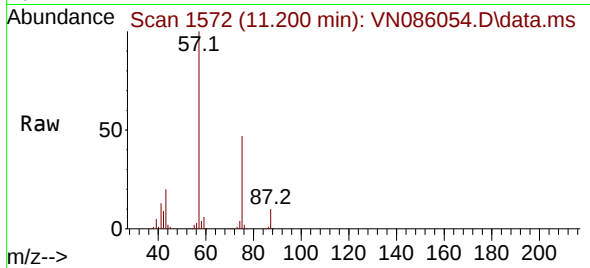




#59
2-Hexanone
Concen: 23.841 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

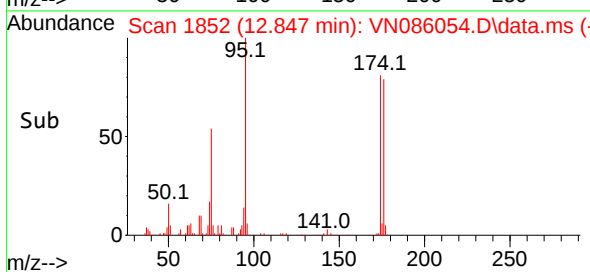
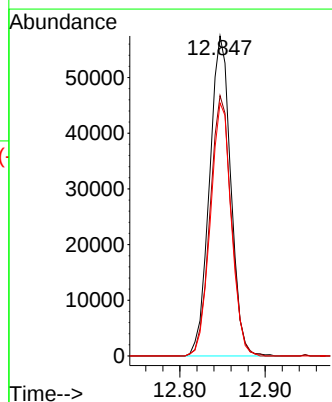
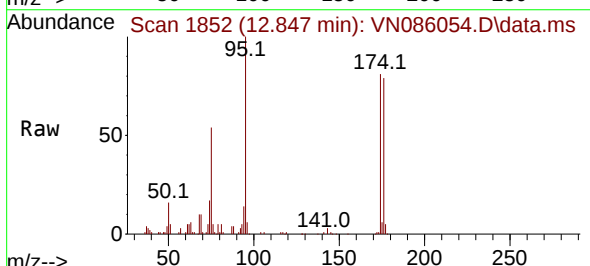
Instrument :
MSVOA_N
ClientSampleId :
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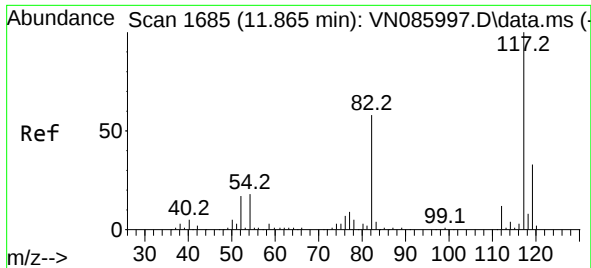
Tgt Ion: 43 Resp: 34445
Ion Ratio Lower Upper
43 100
58 28.1 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 41.177 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion: 95 Resp: 99563
Ion Ratio Lower Upper
95 100
174 81.5 0.0 156.8
176 77.7 0.0 152.2

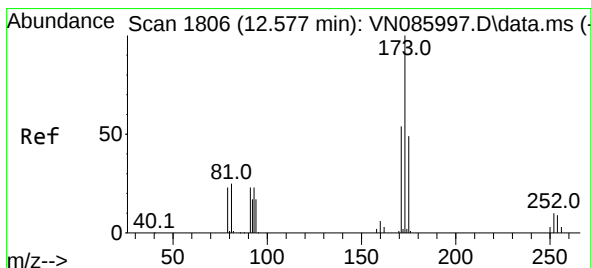
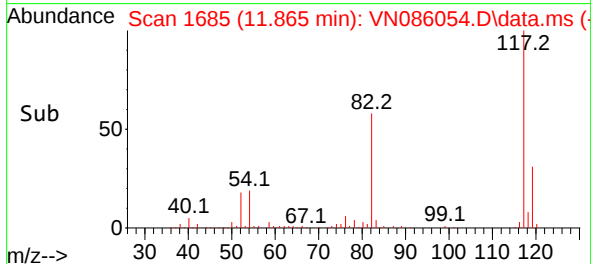
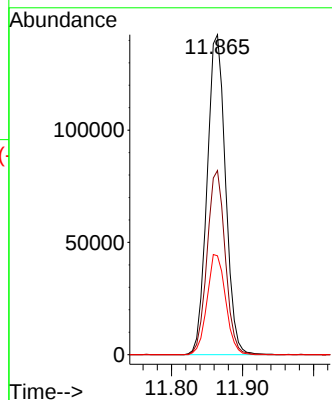
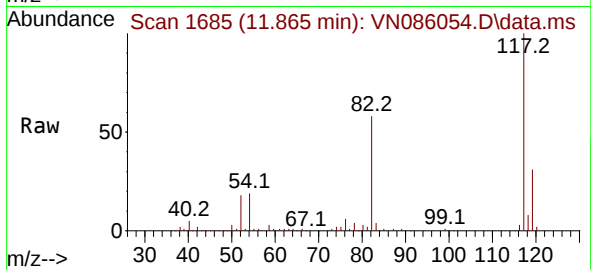




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

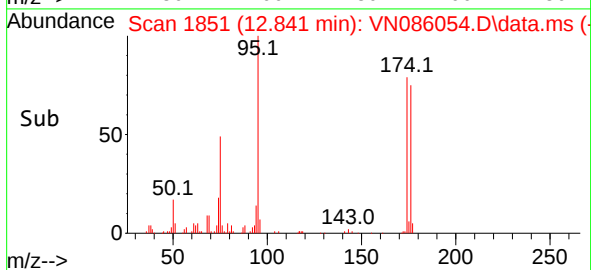
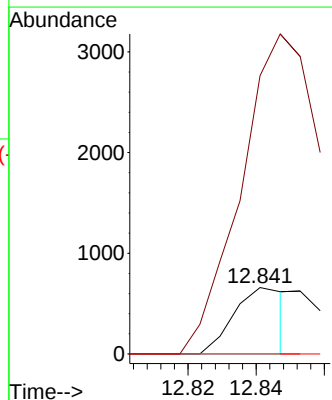
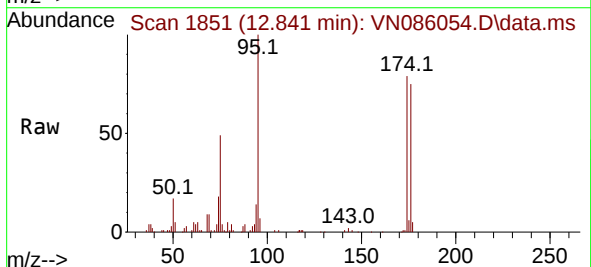
Instrument :
MSVOA_N
ClientSampleId :
DRUM-SOIL-CUTTING

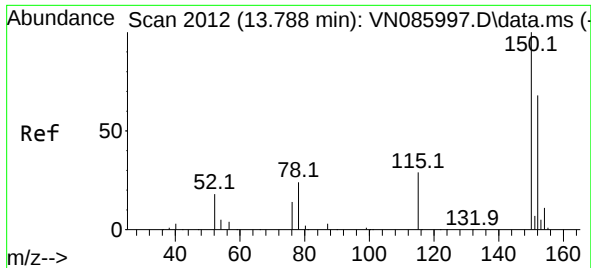
Tgt Ion:117 Resp: 256655
Ion Ratio Lower Upper
117 100
82 57.5 46.7 70.1
119 30.9 26.5 39.7



#71
Bromoform
Concen: 0.378 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion:173 Resp: 690
Ion Ratio Lower Upper
173 100
175 595.1 24.3 73.0#
254 0.0 0.0 0.0

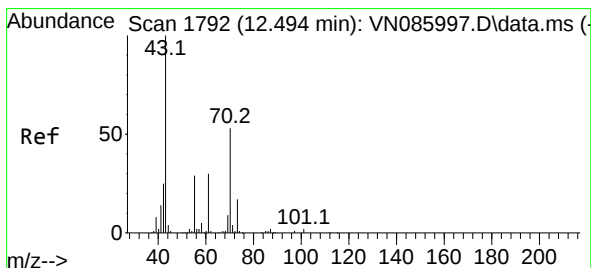
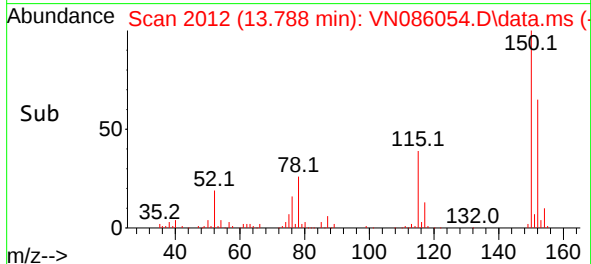
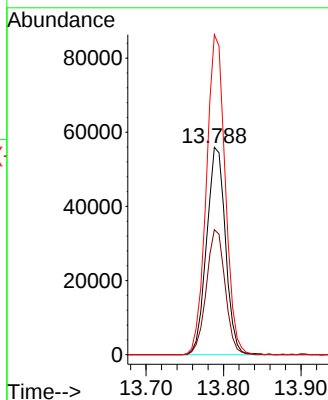
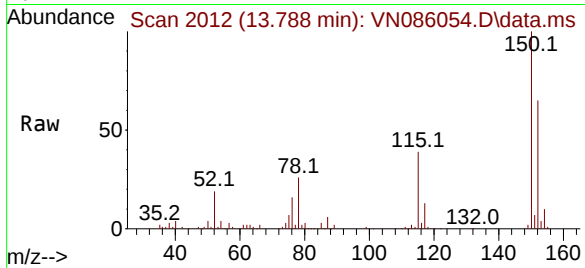




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

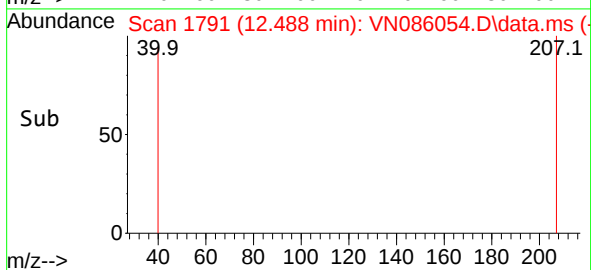
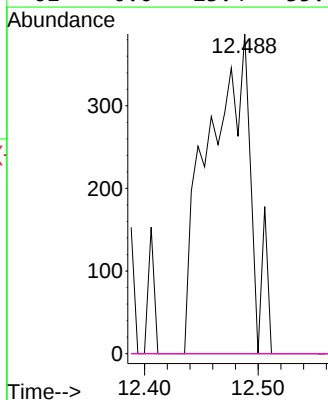
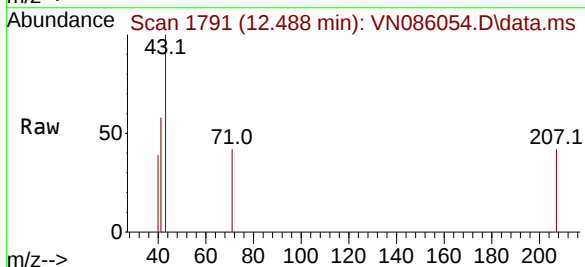
Instrument :
MSVOA_N
ClientSampleId :
DRUM-SOIL-CUTTING

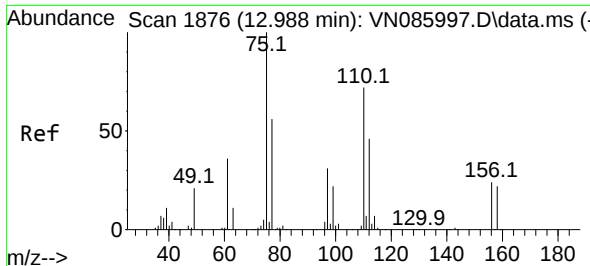
Tgt Ion:152 Resp: 94491
Ion Ratio Lower Upper
152 100
115 60.1 31.1 93.2
150 154.2 0.0 359.6



#74
N-ethyl acetate
Concen: 0.470 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion: 43 Resp: 1015
Ion Ratio Lower Upper
43 100
70 0.0 43.0 64.4#
55 0.0 23.8 35.8#
61 0.0 23.4 35.0#

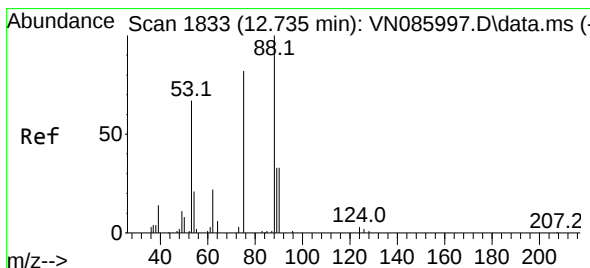
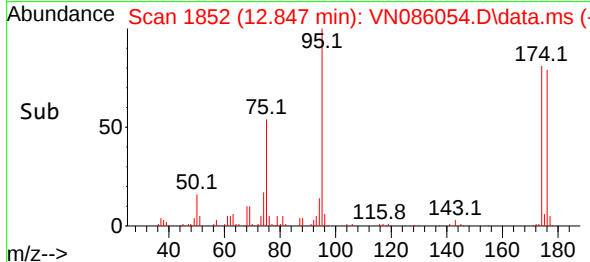
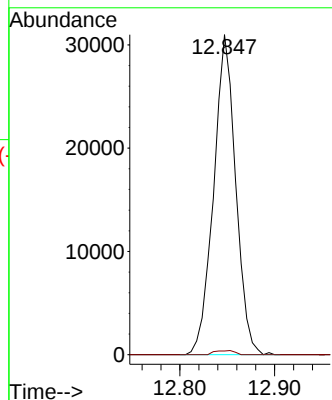
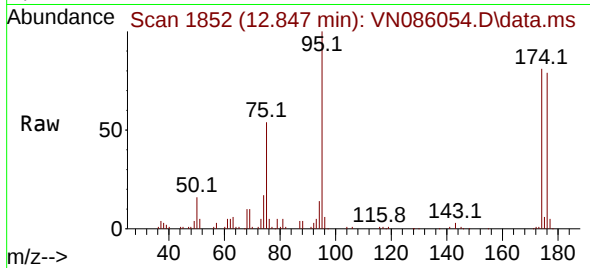




#76
1,2,3-Trichloropropane
Concen: 23.708 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

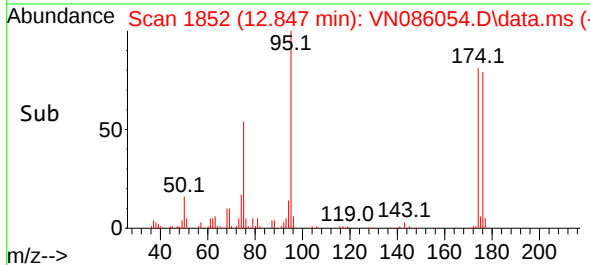
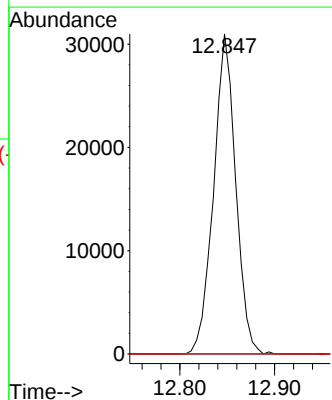
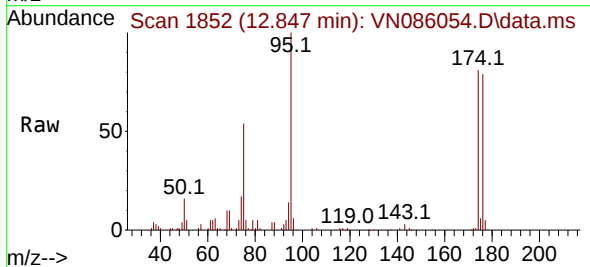
Instrument :
MSVOA_N
ClientSampleId :
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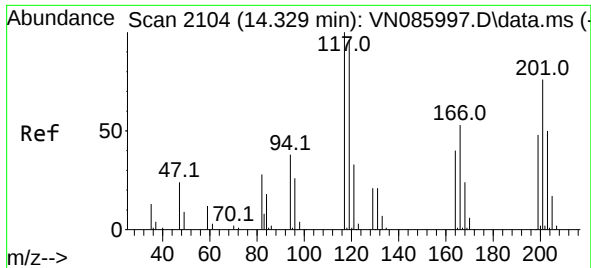
Tgt Ion: 75 Resp: 50153
Ion Ratio Lower Upper
75 100
77 1.2 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.679 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086054.D
Acq: 21 Mar 2025 20:54

Tgt Ion: 75 Resp: 50153
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#





#90
 Hexachloroethane
 Concen: 0.248 ug/l
 RT: 14.441 min Scan# 21
 Delta R.T. 0.112 min
 Lab File: VN086054.D
 Acq: 21 Mar 2025 20:54

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-SOIL-CUTTING

Tgt Ion:117 Resp: 294
 Ion Ratio Lower Upper
 117 100
 201 0.0 39.1 117.3#

