

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111125\
 Data File : VN088255.D
 Acq On : 11 Nov 2025 14:25
 Operator : JC\MD
 Sample : Q3599-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LIVINGSTON-SOIL

Quant Time: Nov 12 01:16:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

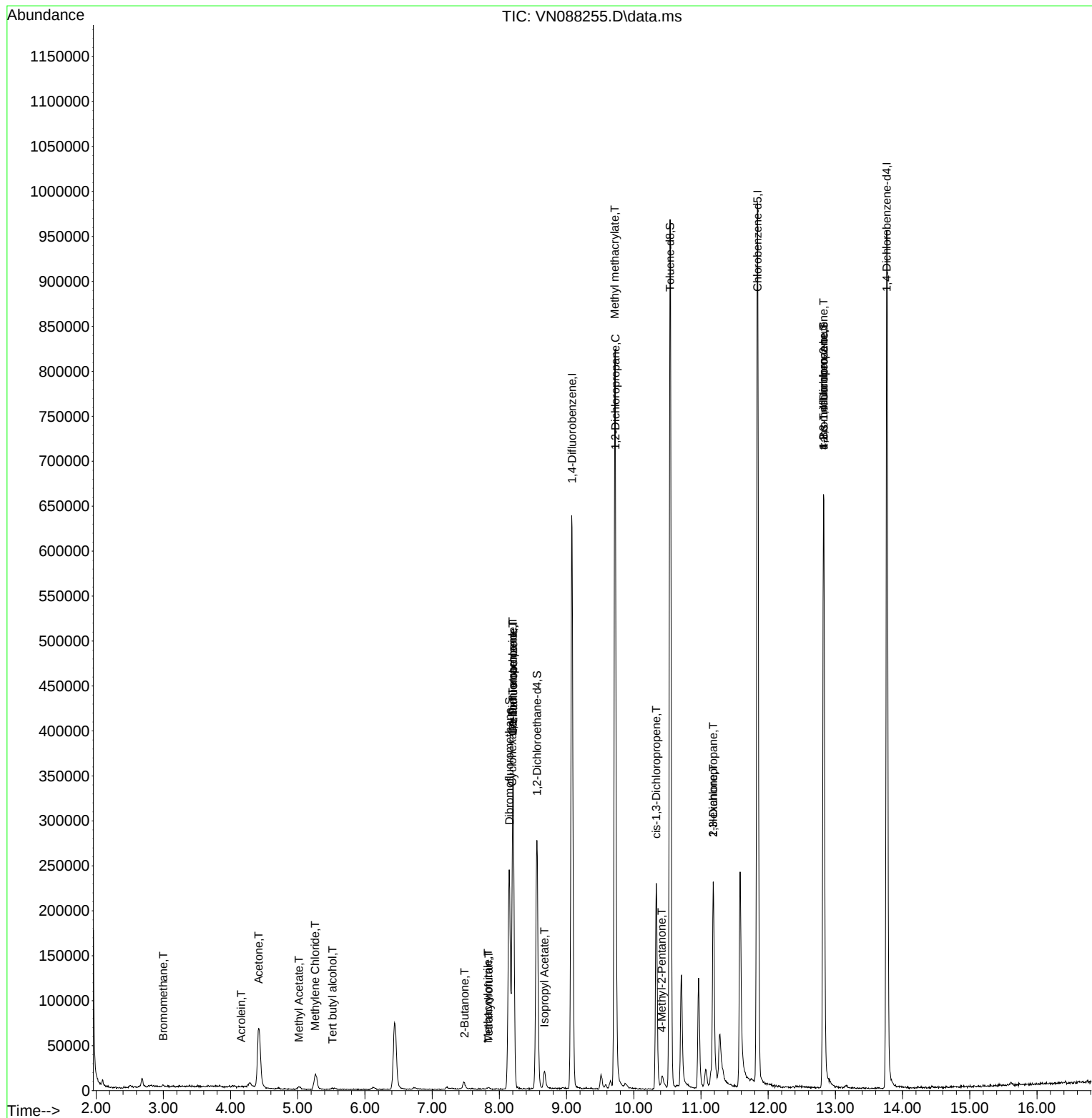
Internal Standards						
1) Pentafluorobenzene	8.206	168	226578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	518714	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	521988	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	248779	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	235338	60.066	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.140%			
35) Dibromofluoromethane	8.147	113	172210	49.418	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.840%			
50) Toluene-d8	10.541	98	633345	47.168	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.340%			
62) 4-Bromofluorobenzene	12.823	95	244306	51.519	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.040%			
Target Compounds					Qvalue	
5) Bromomethane	3.001	94	448	0.229	ug/l	88
11) Tert butyl alcohol	5.518	59	2285	3.385	ug/l #	71
13) Acrolein	4.159	56	263	0.346	ug/l #	69
16) Acetone	4.418	43	139492	70.867	ug/l	98
18) Methyl Acetate	5.018	43	5977	1.483	ug/l	96
20) Methylene Chloride	5.259	84	13339	4.037	ug/l #	85
25) 2-Butanone	7.483	43	14231	5.486	ug/l	97
29) Tetrahydrofuran	7.841	42	1127	0.667	ug/l	88
31) Cyclohexane	8.194	56	7034	1.283	ug/l #	24
36) 1,1-Dichloropropene	8.200	75	24327	4.781	ug/l #	50
38) Carbon Tetrachloride	8.200	117	26986	5.135	ug/l #	14
41) Methacrylonitrile	7.830	41	896	0.259	ug/l #	43
43) Isopropyl Acetate	8.671	43	23701	2.349	ug/l	94
45) 1,2-Dichloropropane	9.729	63	993	0.254	ug/l #	43
48) Methyl methacrylate	9.718	41	84471	18.134	ug/l #	46
51) 4-Methyl-2-Pentanone	10.418	43	15939	2.670	ug/l #	87
54) cis-1,3-Dichloropropene	10.335	75	40214	6.374	ug/l #	69
57) 1,3-Dichloropropane	11.182	76	2485	0.390	ug/l #	42
59) 2-Hexanone	11.182	43	54657	13.804	ug/l #	48
76) 1,2,3-Trichloropropane	12.823	75	146071	25.681	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	146071	71.639	ug/l #	1

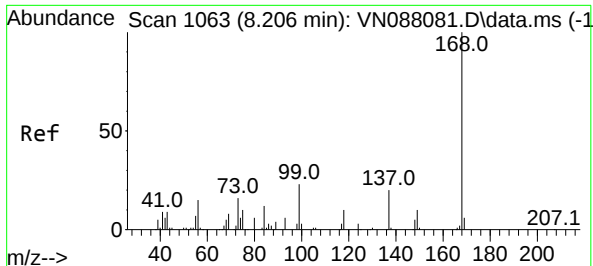
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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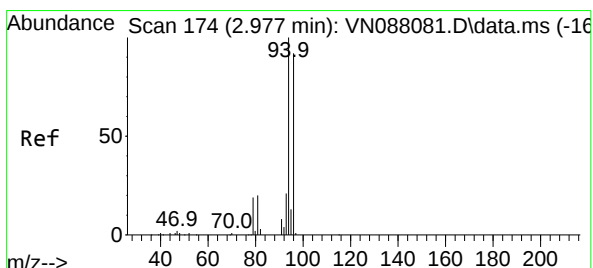
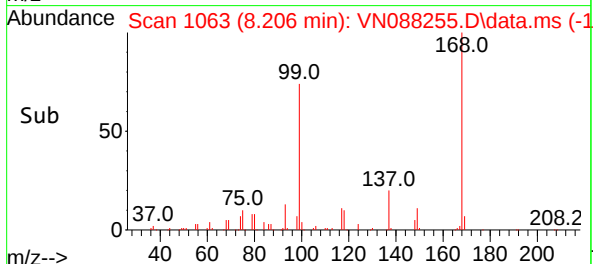
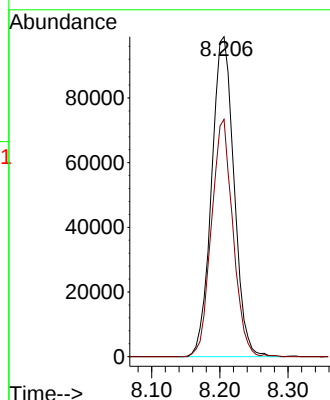
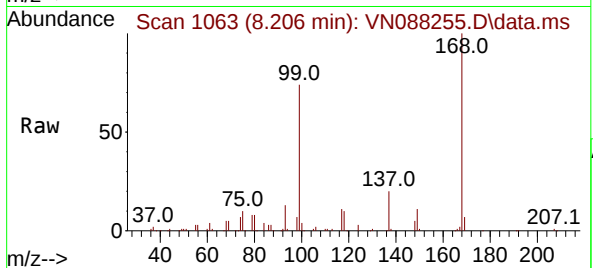




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

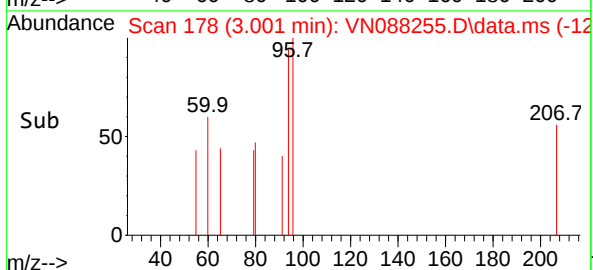
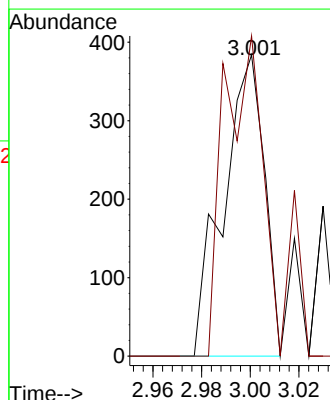
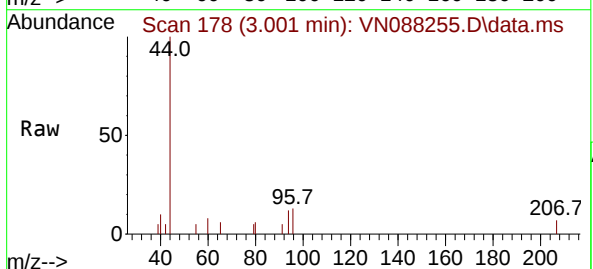
Instrument :
MSVOA_N
ClientSampleId :
LIVINGSTON-SOIL

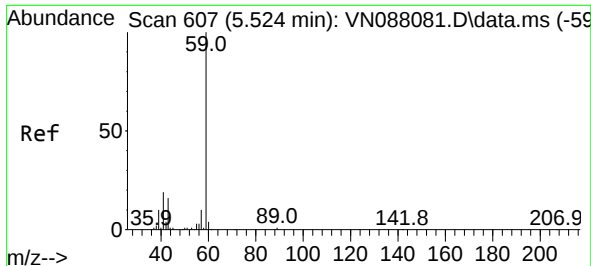
Tgt Ion:168 Resp: 226578
Ion Ratio Lower Upper
168 100
99 74.1 57.2 85.8



#5
Bromomethane
Concen: 0.229 ug/l
RT: 3.001 min Scan# 178
Delta R.T. 0.029 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 94 Resp: 448
Ion Ratio Lower Upper
94 100
96 106.3 75.4 113.2

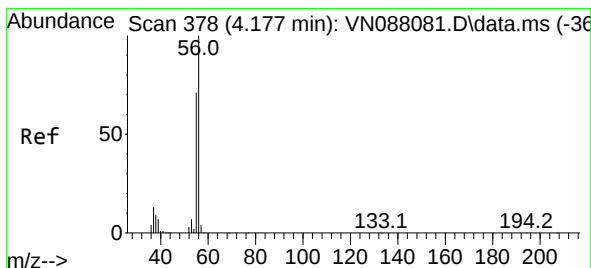
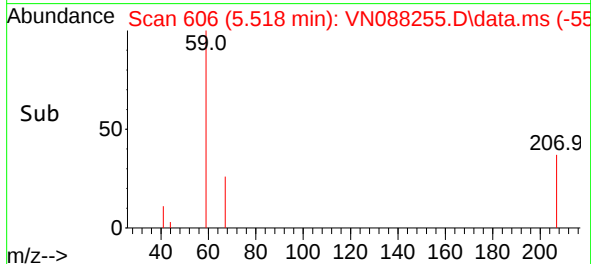
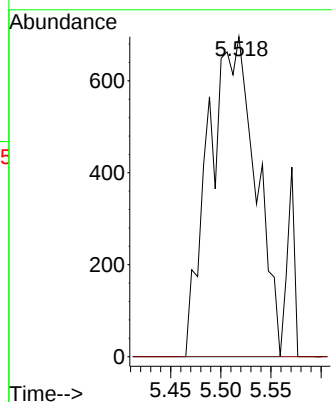
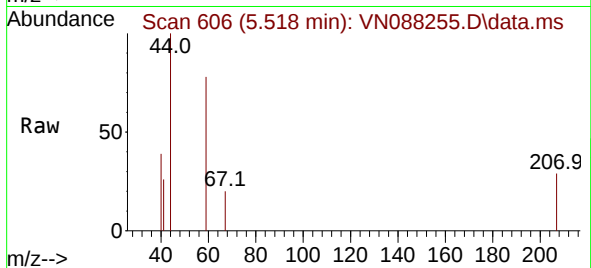




#11
Tert butyl alcohol
Concen: 3.385 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

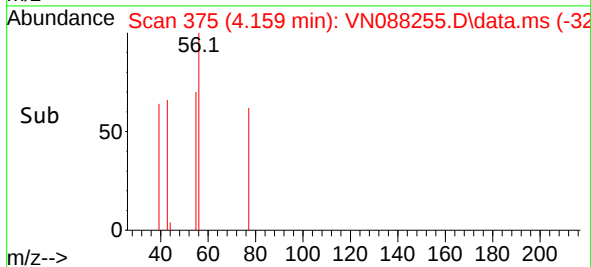
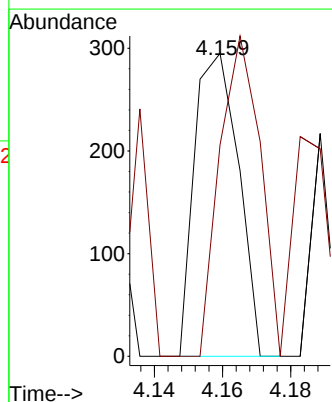
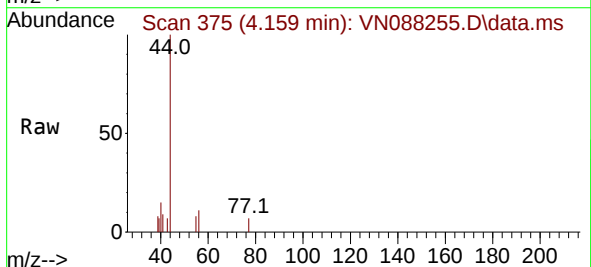
Instrument :
MSVOA_N
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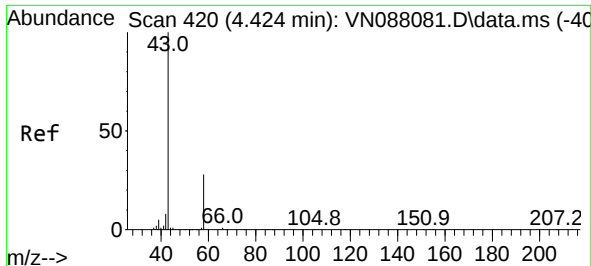
Tgt Ion: 59 Resp: 2285
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.346 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.012 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 56 Resp: 263
Ion Ratio Lower Upper
56 100
55 97.7 57.3 85.9#

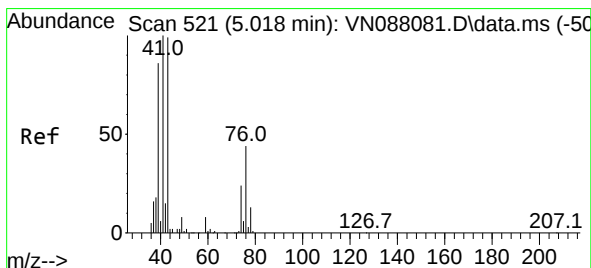
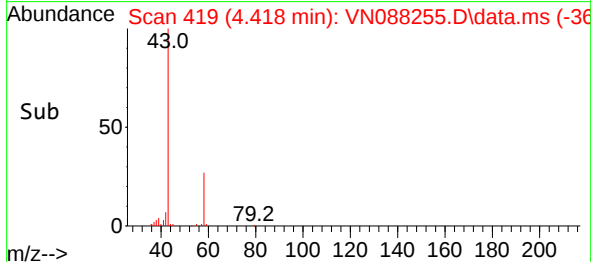
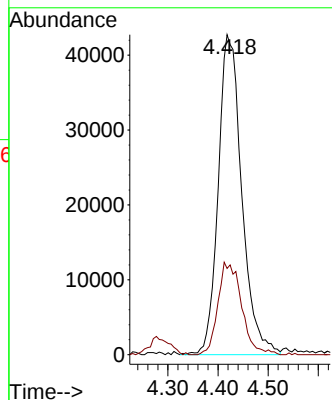
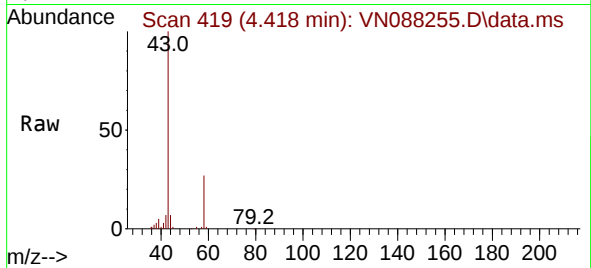




#16
Acetone
Concen: 70.867 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

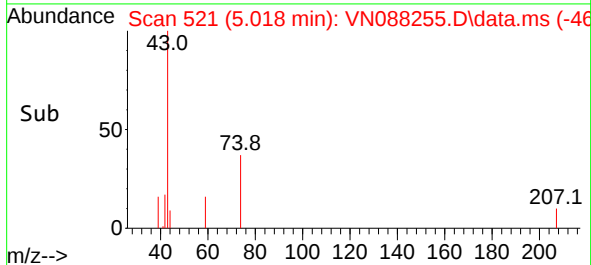
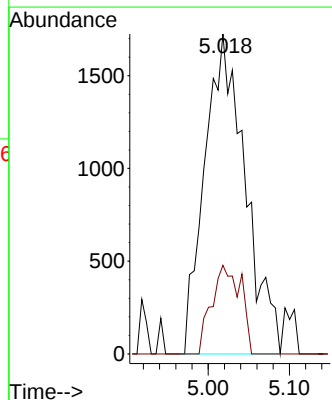
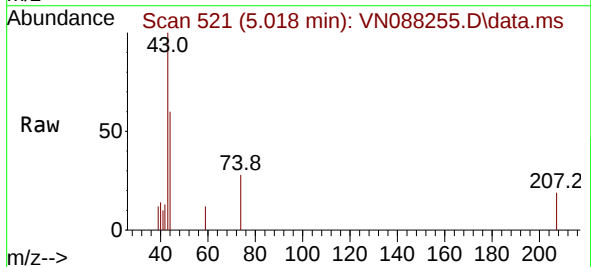
Instrument :
MSVOA_N
ClientSampleId :
LIVINGSTON-SOIL

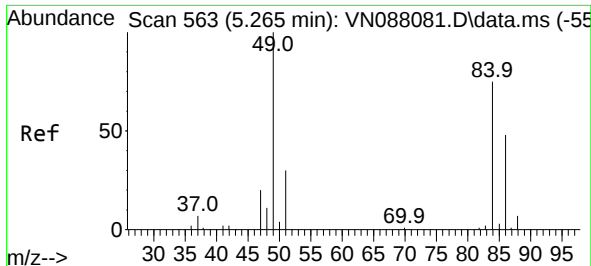
Tgt Ion: 43 Resp: 139492
Ion Ratio Lower Upper
43 100
58 26.9 22.6 33.8



#18
Methyl Acetate
Concen: 1.483 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 43 Resp: 5977
Ion Ratio Lower Upper
43 100
74 19.9 17.6 26.4

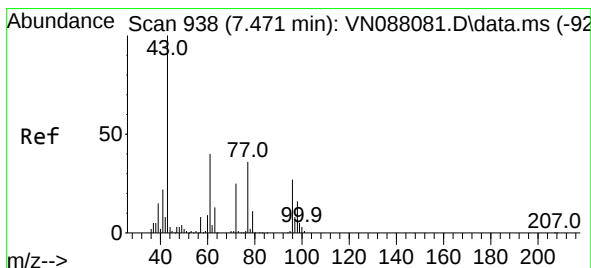
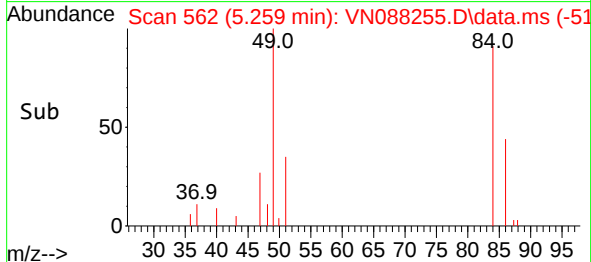
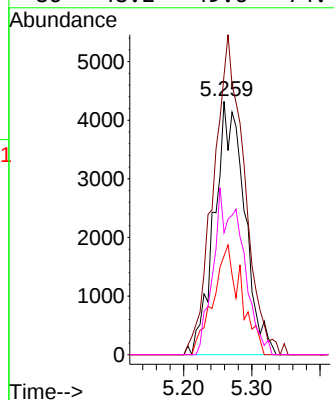
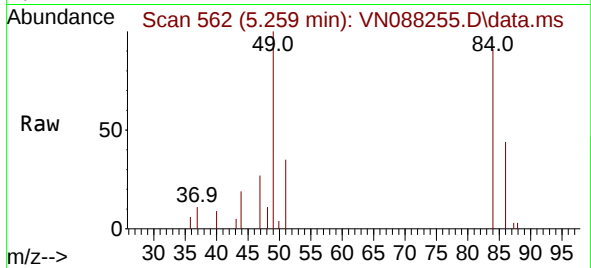




#20
Methylene Chloride
Concen: 4.037 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

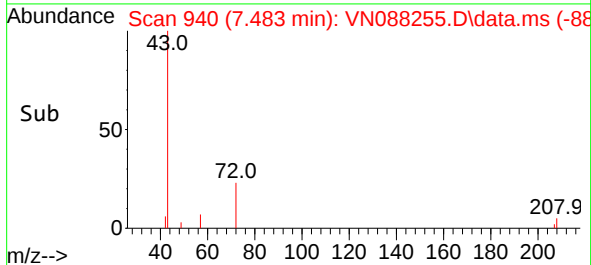
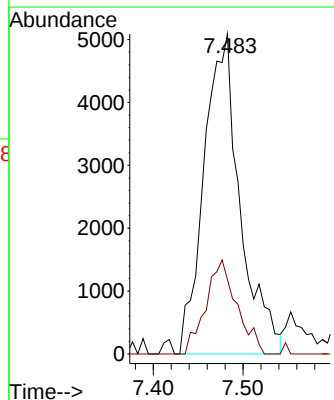
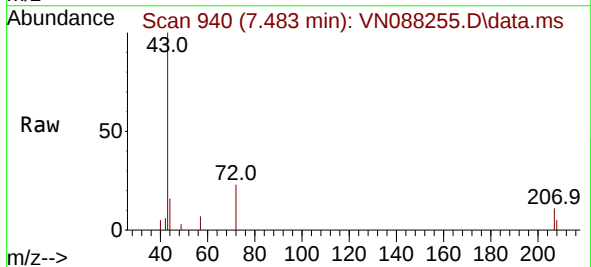
Instrument :
MSVOA_N
ClientSampleId :
LIVINGSTON-SOIL

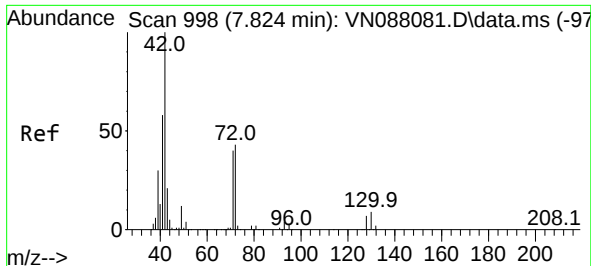
Tgt Ion: 84 Resp: 13339
Ion Ratio Lower Upper
84 100
49 110.3 103.4 155.2
51 39.0 33.8 50.8
86 48.2 49.6 74.4#



#25
2-Butanone
Concen: 5.486 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 43 Resp: 14231
Ion Ratio Lower Upper
43 100
72 23.3 19.9 29.9





#29

Tetrahydrofuran

Concen: 0.667 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.018 min

Lab File: VN088255.D

Acq: 11 Nov 2025 14:25

Instrument :

MSVOA_N

ClientSampleId :

LIVINGSTON-SOIL

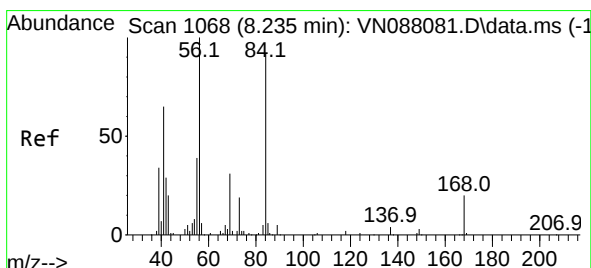
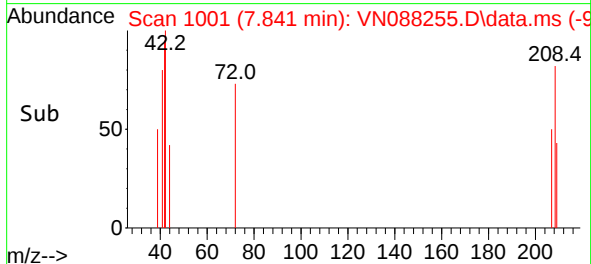
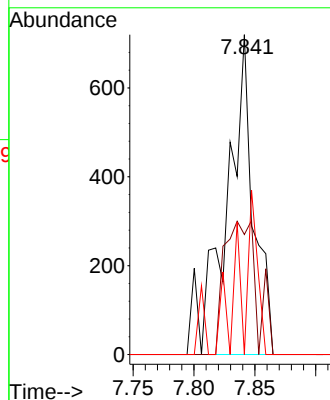
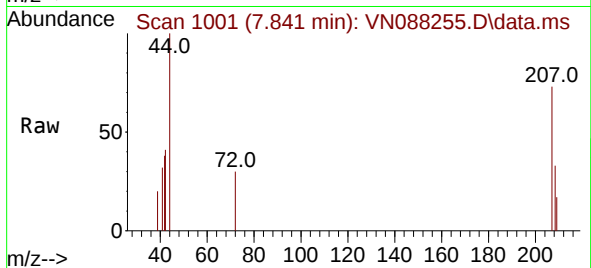
Tgt Ion: 42 Resp: 1127

Ion Ratio Lower Upper

42 100

72 49.2 33.7 50.5

71 32.1 31.9 47.9



#31

Cyclohexane

Concen: 1.283 ug/l

RT: 8.194 min Scan# 1061

Delta R.T. -0.041 min

Lab File: VN088255.D

Acq: 11 Nov 2025 14:25

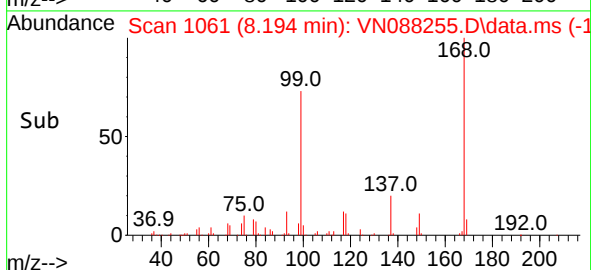
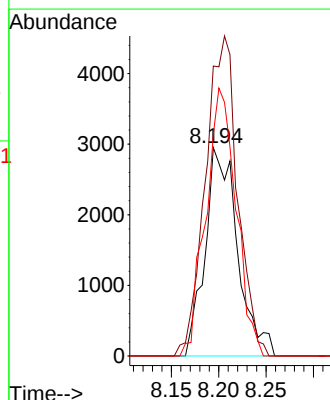
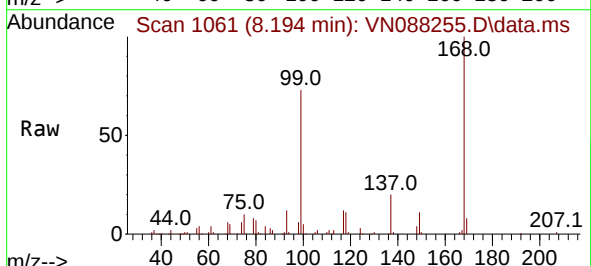
Tgt Ion: 56 Resp: 7034

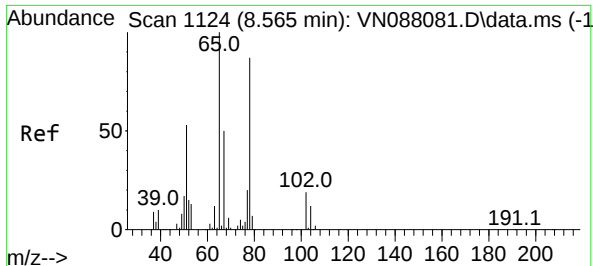
Ion Ratio Lower Upper

56 100

69 139.2 23.7 35.5#

84 106.4 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 60.066 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088255.D

Acq: 11 Nov 2025 14:25

Instrument :

MSVOA_N

ClientSampleId :

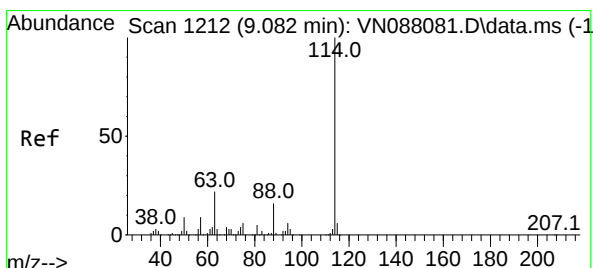
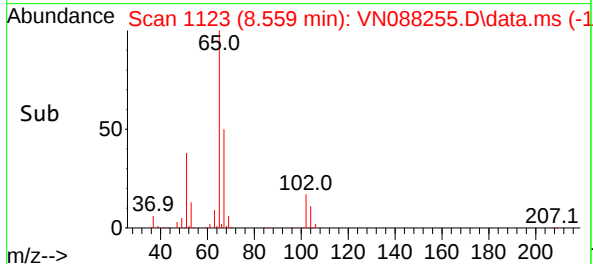
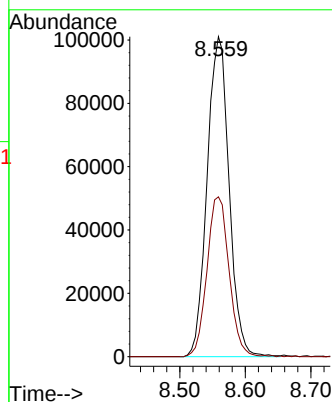
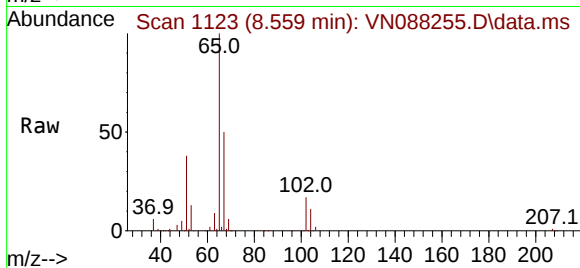
LIVINGSTON-SOIL

Tgt Ion: 65 Resp: 235338

Ion Ratio Lower Upper

65 100

67 50.2 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088255.D

Acq: 11 Nov 2025 14:25

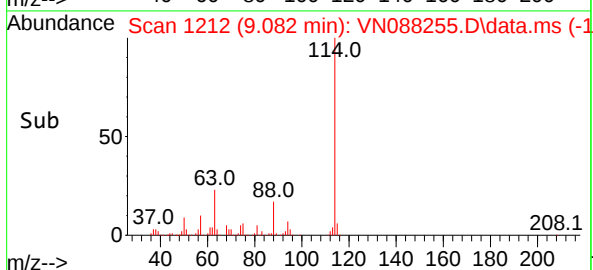
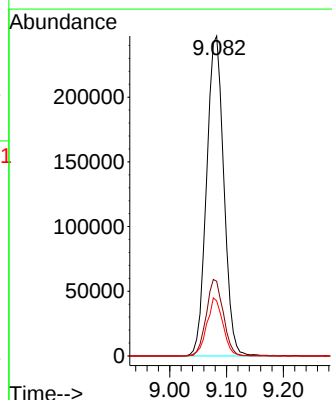
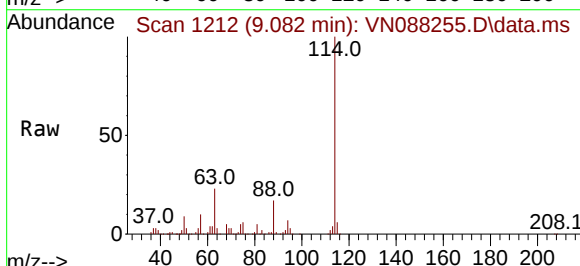
Tgt Ion: 114 Resp: 518714

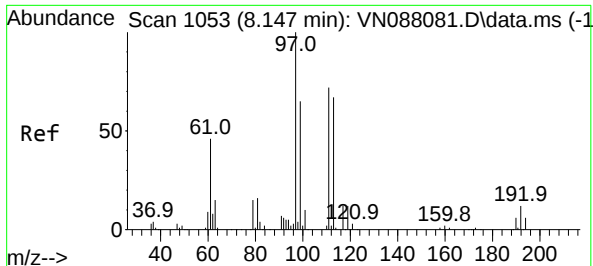
Ion Ratio Lower Upper

114 100

63 23.4 0.0 45.2

88 17.2 0.0 33.4

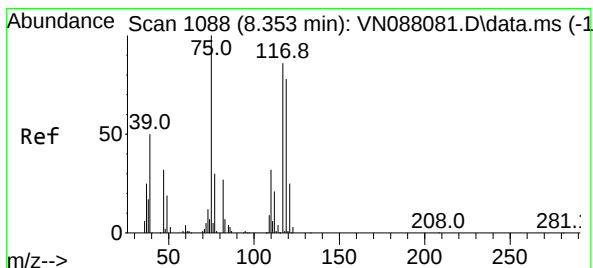
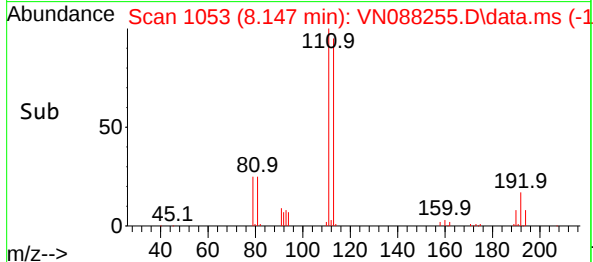
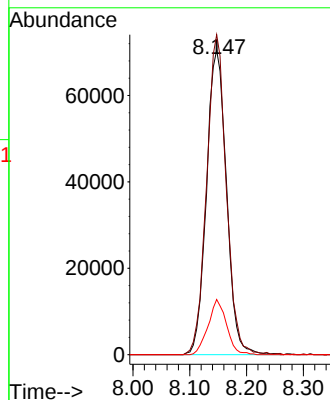
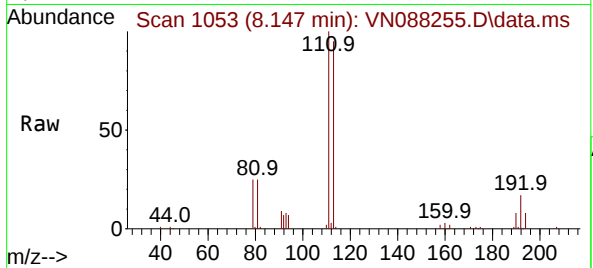




#35
Dibromofluoromethane
Concen: 49.418 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

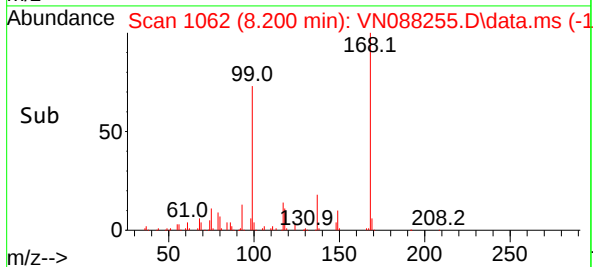
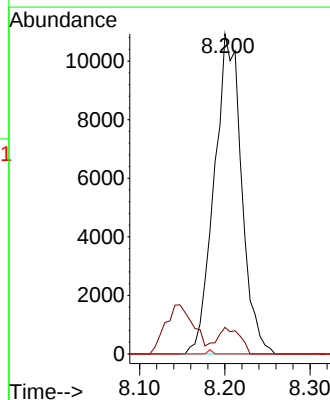
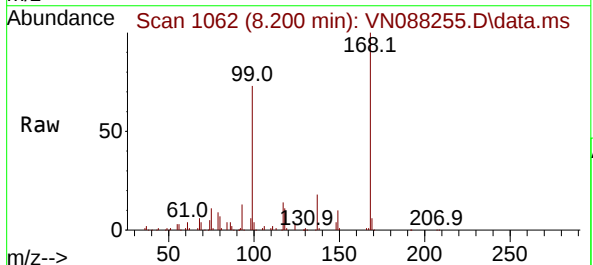
Instrument :
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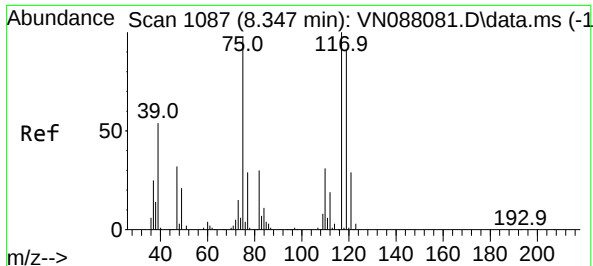
Tgt Ion:113 Resp: 172210
Ion Ratio Lower Upper
113 100
111 103.1 82.8 124.2
192 16.7 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.781 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 75 Resp: 24327
Ion Ratio Lower Upper
75 100
110 6.6 15.9 47.6#
77 0.2 24.4 36.6#

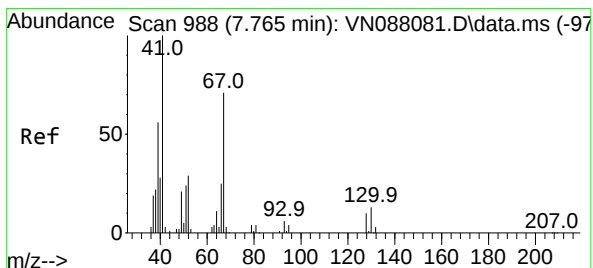
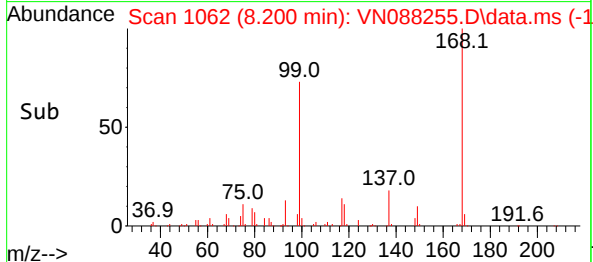
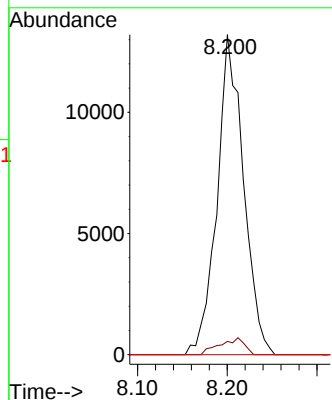
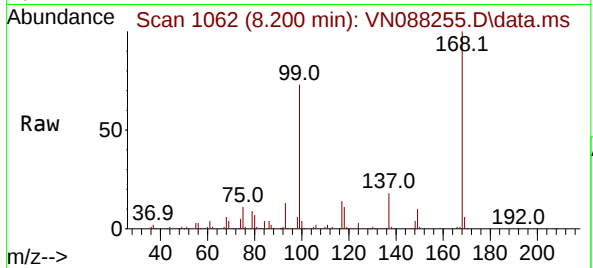




#38
Carbon Tetrachloride
Concen: 5.135 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.141 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

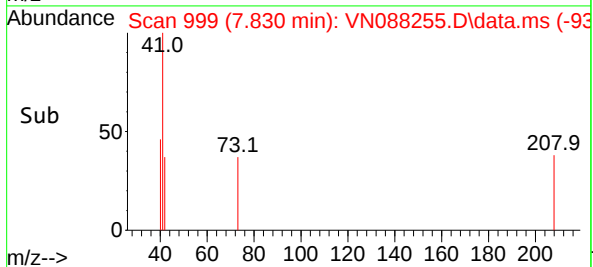
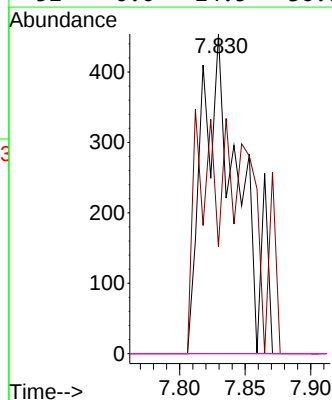
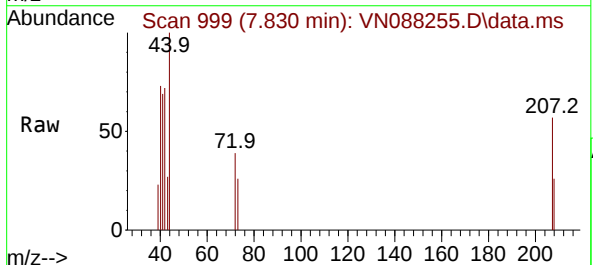
Instrument :
MSVOA_N
ClientSampleId :
LIVINGSTON-SOIL

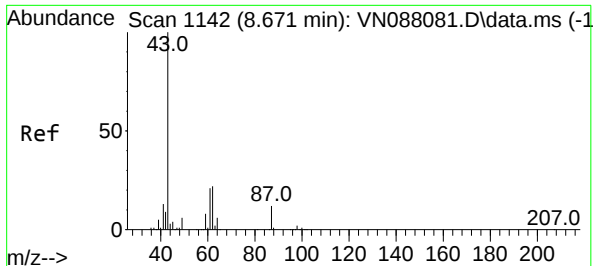
Tgt Ion:117 Resp: 26986
Ion Ratio Lower Upper
117 100
119 4.1 79.0 118.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.259 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.070 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 41 Resp: 896
Ion Ratio Lower Upper
41 100
39 40.0 45.4 68.0#
67 0.0 55.3 82.9#
52 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 2.349 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN088255.D

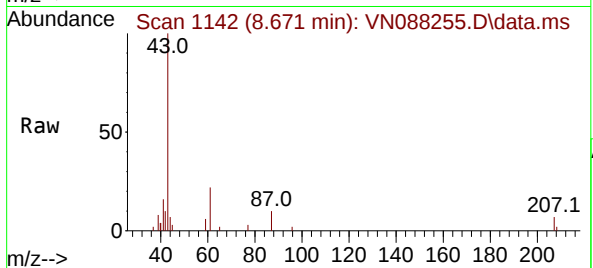
Acq: 11 Nov 2025 14:25

Instrument :

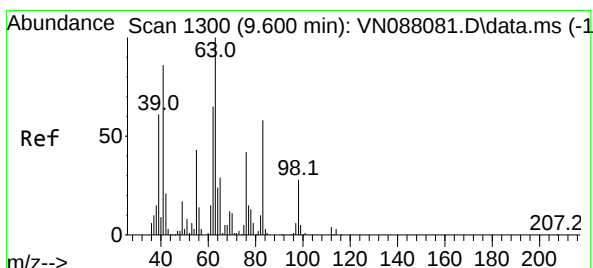
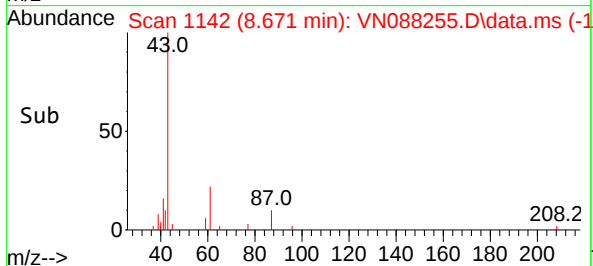
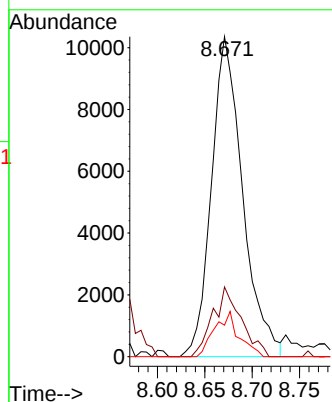
MSVOA_N

ClientSampleId :

LIVINGSTON-SOIL



Tgt Ion:	43	Resp:	23701
Ion Ratio	Lower	Upper	
43	100		
61	20.0	18.8	28.2
87	11.0	9.6	14.4



#45

1,2-Dichloropropane

Concen: 0.254 ug/l

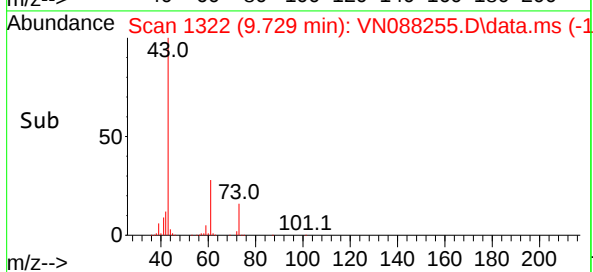
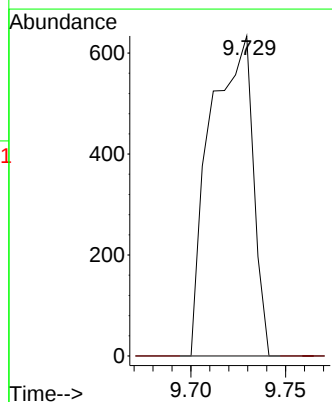
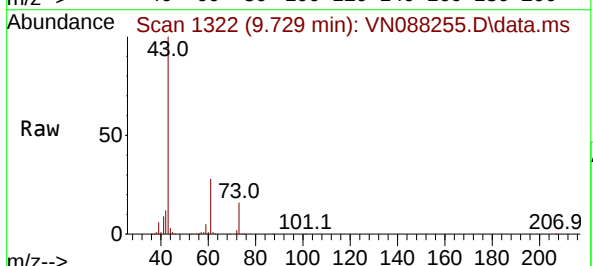
RT: 9.729 min Scan# 1322

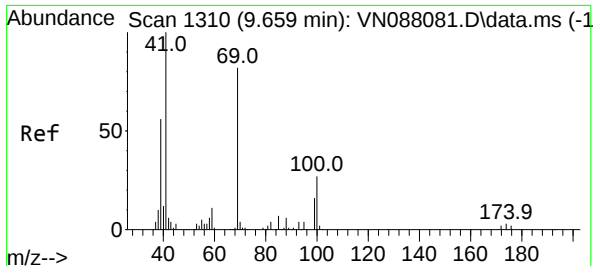
Delta R.T. 0.129 min

Lab File: VN088255.D

Acq: 11 Nov 2025 14:25

Tgt Ion:	63	Resp:	993
Ion Ratio	Lower	Upper	
63	100		
65	0.0	25.0	37.4#

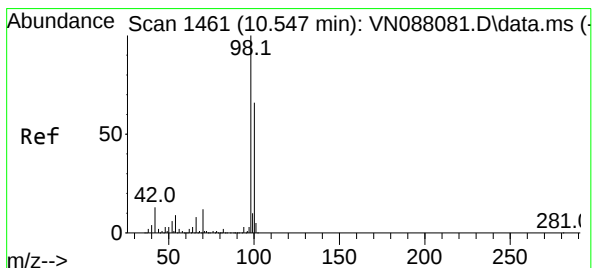
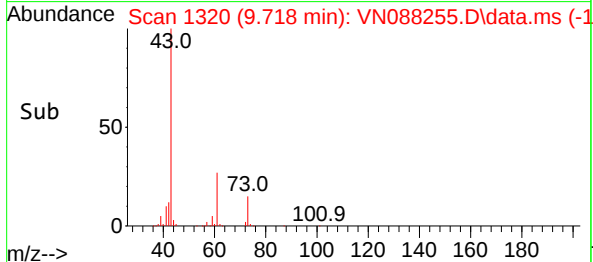
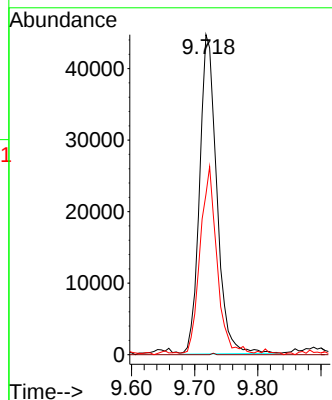
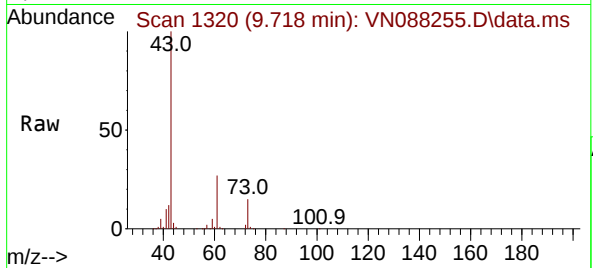




#48
Methyl methacrylate
Concen: 18.134 ug/l
RT: 9.718 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

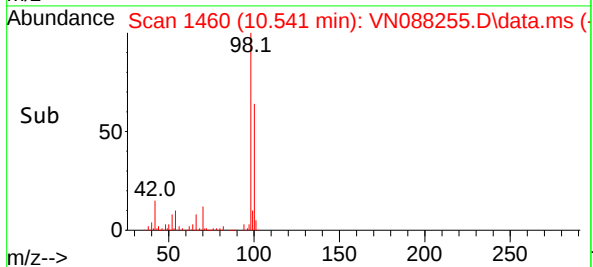
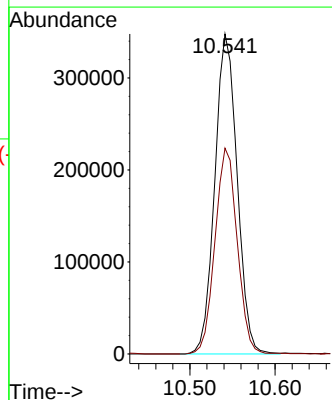
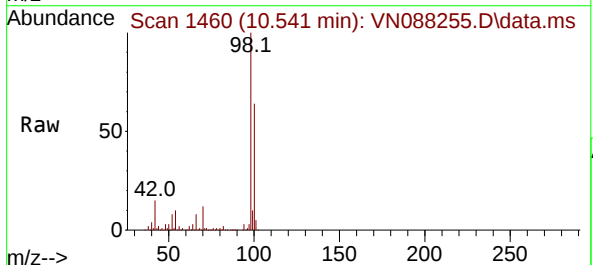
Instrument :
MSVOA_N
ClientSampleId :
LIVINGSTON-SOIL

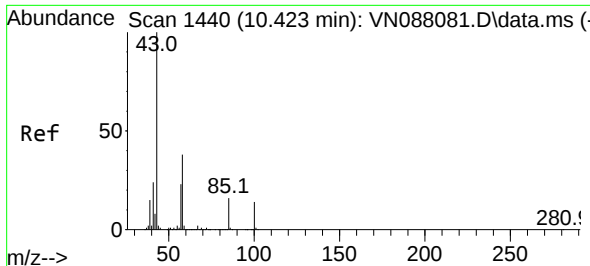
Tgt Ion: 41 Resp: 84471
Ion Ratio Lower Upper
41 100
69 0.1 62.7 94.1#
39 57.1 52.9 79.3



#50
Toluene-d8
Concen: 47.168 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 98 Resp: 633345
Ion Ratio Lower Upper
98 100
100 64.1 52.8 79.2

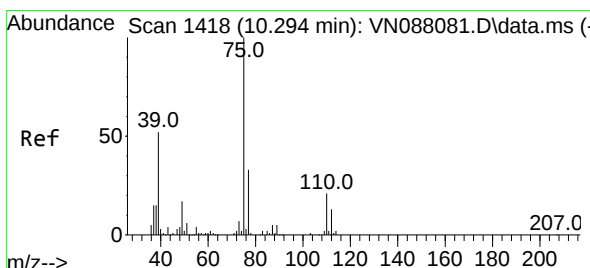
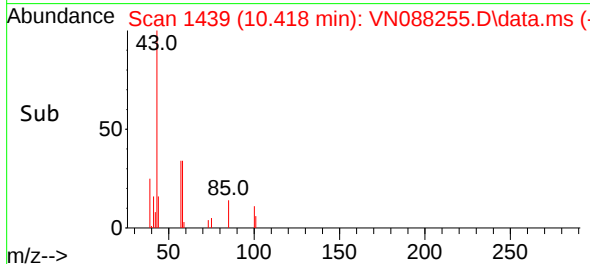
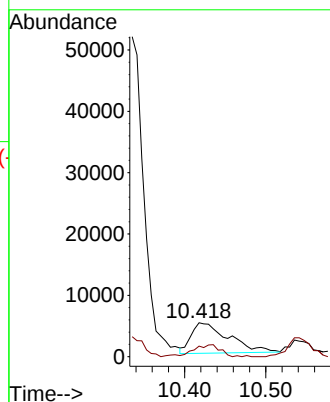
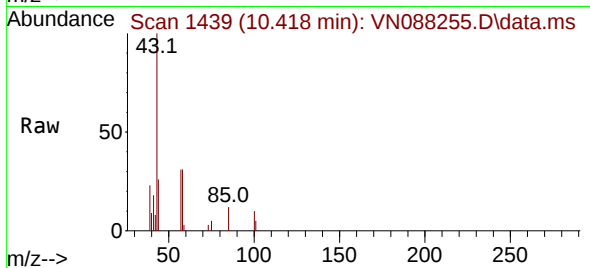




#51
4-Methyl-2-Pentanone
Concen: 2.670 ug/l
RT: 10.418 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

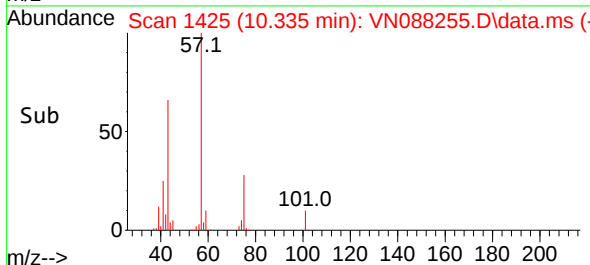
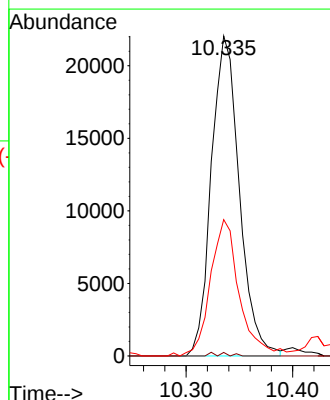
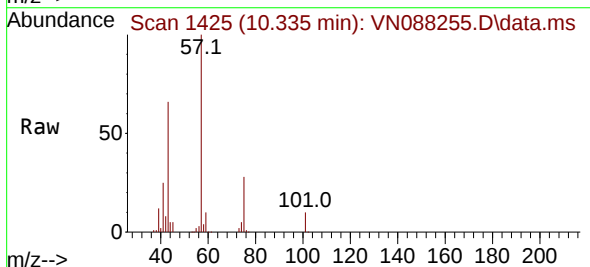
Instrument :
MSVOA_N
ClientSampleId :
LIVINGSTON-SOIL

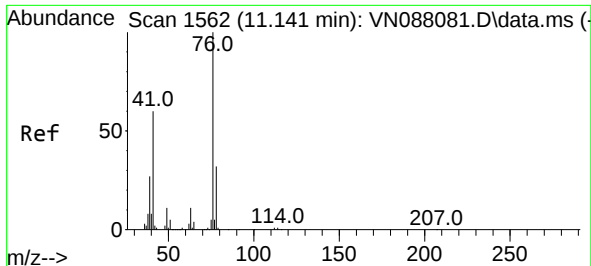
Tgt Ion: 43 Resp: 15939
Ion Ratio Lower Upper
43 100
58 29.2 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 6.374 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 75 Resp: 40214
Ion Ratio Lower Upper
75 100
77 1.1 24.6 37.0#
39 42.6 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.390 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN088255.D

Acq: 11 Nov 2025 14:25

Instrument :

MSVOA_N

ClientSampleId :

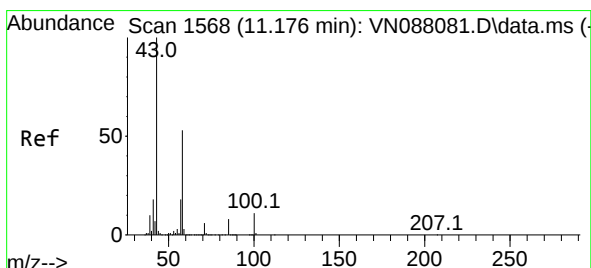
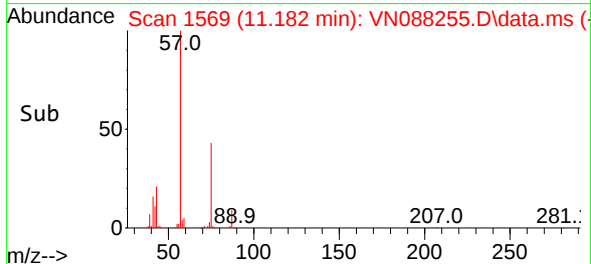
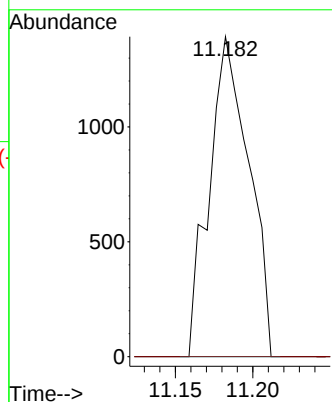
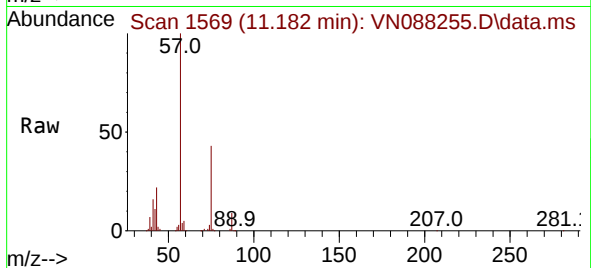
LIVINGSTON-SOIL

Tgt Ion: 76 Resp: 2485

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 13.804 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN088255.D

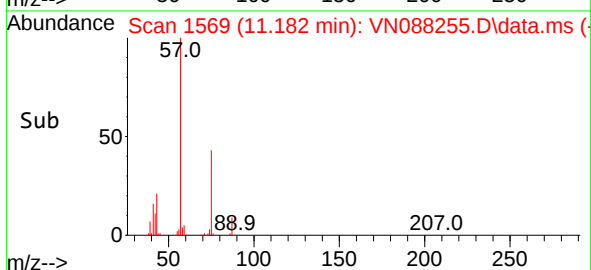
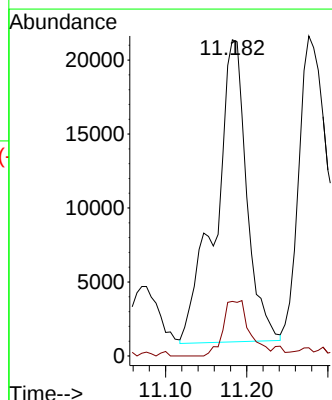
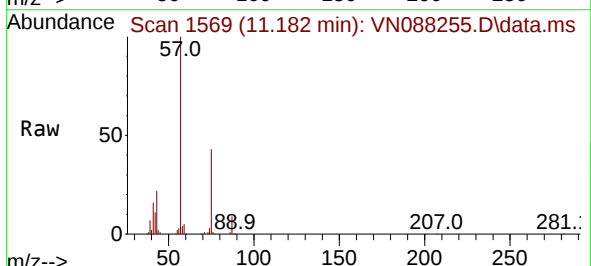
Acq: 11 Nov 2025 14:25

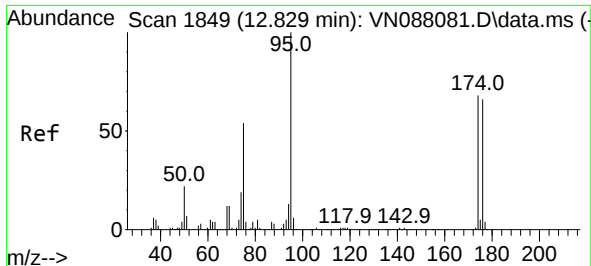
Tgt Ion: 43 Resp: 54657

Ion Ratio Lower Upper

43 100

58 15.4 25.9 77.8#

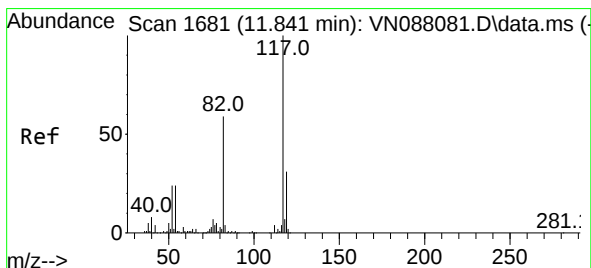
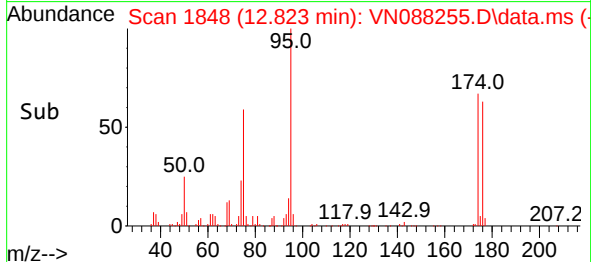
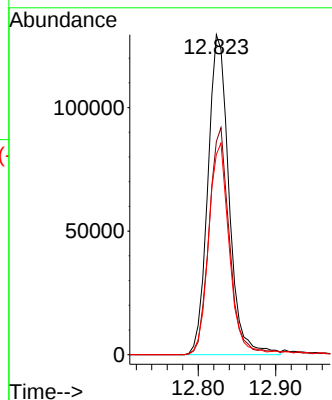
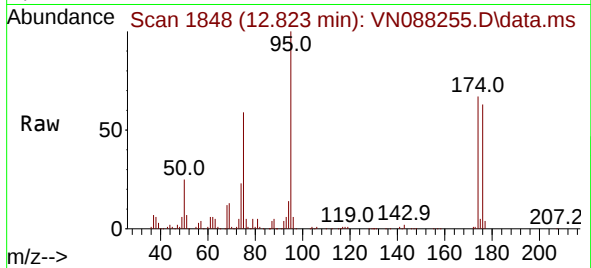




#62
4-Bromofluorobenzene
Concen: 51.519 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

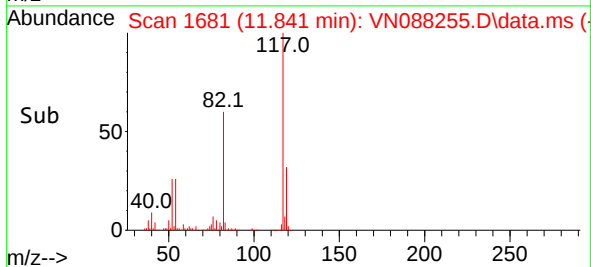
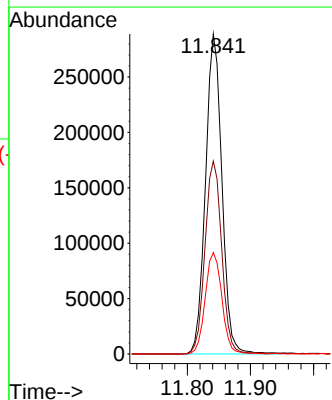
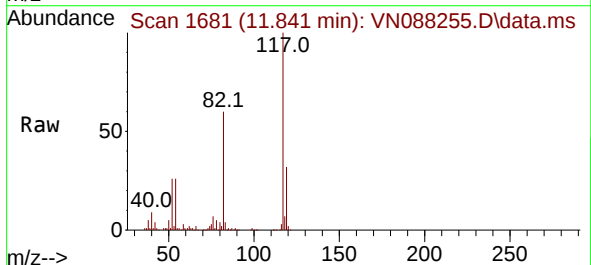
Instrument :
MSVOA_N
ClientSampleId :
LIVINGSTON-SOIL

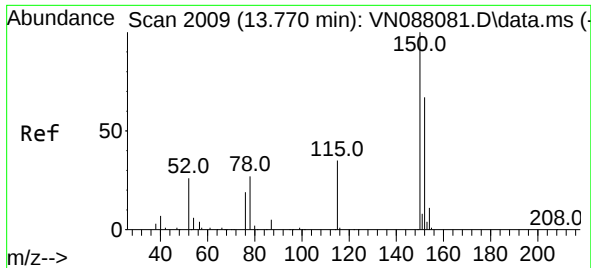
Tgt Ion: 95 Resp: 244306
Ion Ratio Lower Upper
95 100
174 69.8 0.0 138.4
176 64.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088255.D
Acq: 11 Nov 2025 14:25

Tgt Ion: 117 Resp: 521988
Ion Ratio Lower Upper
117 100
82 60.3 47.4 71.2
119 31.7 24.3 36.5

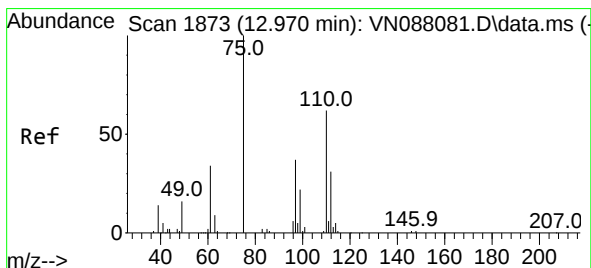
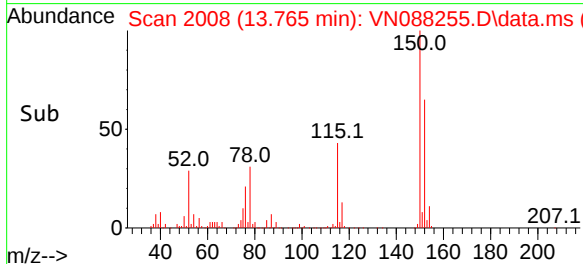
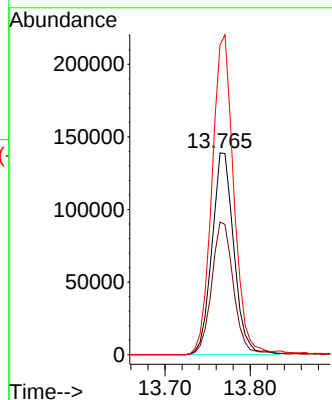
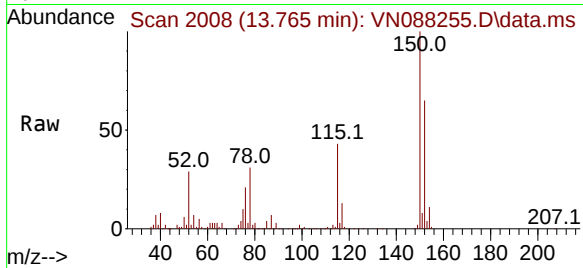




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.765 min Scan# 2009
 Delta R.T. -0.000 min
 Lab File: VN088255.D
 Acq: 11 Nov 2025 14:25

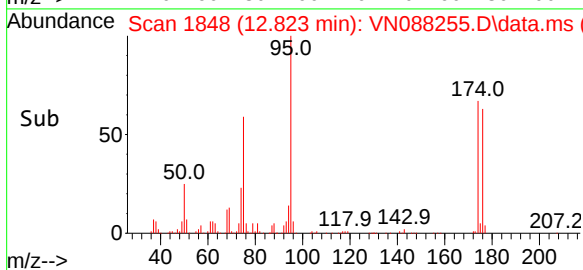
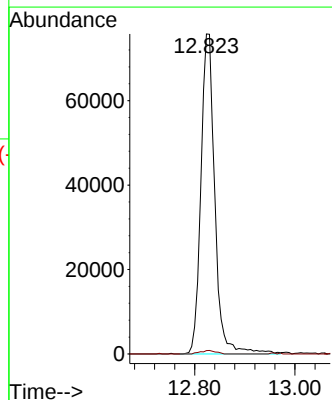
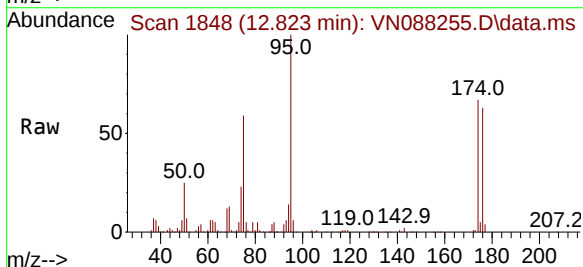
Instrument :
 MSVOA_N
 ClientSampleId :
 LIVINGSTON-SOIL

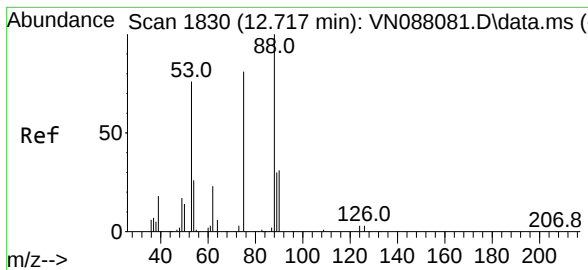
Tgt Ion:152 Resp: 248779
 Ion Ratio Lower Upper
 152 100
 115 65.6 32.3 96.8
 150 158.9 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 25.681 ug/l
 RT: 12.823 min Scan# 1848
 Delta R.T. -0.147 min
 Lab File: VN088255.D
 Acq: 11 Nov 2025 14:25

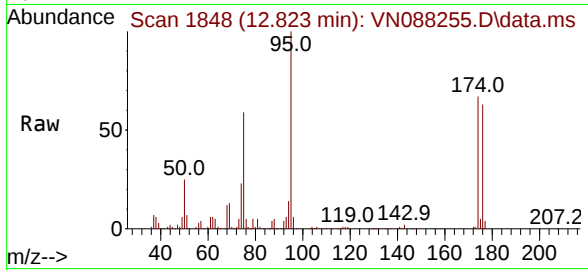
Tgt Ion: 75 Resp: 146071
 Ion Ratio Lower Upper
 75 100
 77 1.2 89.1 267.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.639 ug/l
 RT: 12.823 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN088255.D
 Acq: 11 Nov 2025 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 LIVINGSTON-SOIL



Tgt Ion: 75 Resp: 146071
 Ion Ratio Lower Upper
 75 100
 53 0.1 101.8 152.6#
 89 0.3 35.6 53.4#

