

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090825\
 Data File : VN087759.D
 Acq On : 08 Sep 2025 14:21
 Operator : JC\MD
 Sample : Q3032-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE-1

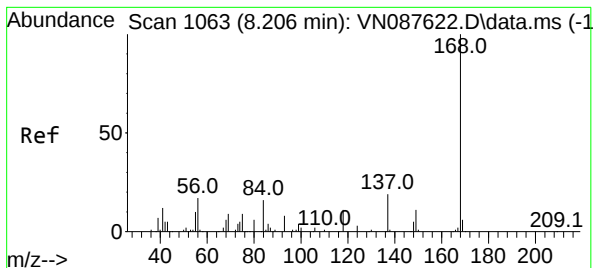
Quant Time: Sep 09 02:29:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	173684	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	396253	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	398856	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	185969	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	184702	51.903	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.800%	
35) Dibromofluoromethane	8.147	113	143909	50.301	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.600%	
50) Toluene-d8	10.547	98	536840	50.135	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.260%	
62) 4-Bromofluorobenzene	12.823	95	182937	48.039	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 96.080%	
Target Compounds						Qvalue
11) Tert butyl alcohol	5.541	59	4186	6.776	ug/l #	84
13) Acrolein	4.153	56	214	0.282	ug/l #	67
16) Acetone	4.430	43	41838	21.597	ug/l	90
18) Methyl Acetate	5.024	43	31478	7.761	ug/l	100
20) Methylene Chloride	5.247	84	4217	0.270	ug/l #	82
25) 2-Butanone	7.471	43	28484	11.176	ug/l	94
29) Tetrahydrofuran	7.830	42	1395	0.851	ug/l #	42
31) Cyclohexane	8.218	56	6328	1.414	ug/l #	66
36) 1,1-Dichloropropene	8.206	75	17226	3.925	ug/l #	52
37) Ethyl Acetate	7.553	43	20641	3.442	ug/l #	94
38) Carbon Tetrachloride	8.206	117	19639	4.532	ug/l #	15
43) Isopropyl Acetate	8.677	43	13801	1.474	ug/l #	92
45) 1,2-Dichloropropane	9.718	63	1526	0.430	ug/l #	43
48) Methyl methacrylate	9.724	41	119904	27.072	ug/l #	46
49) 1,4-Dioxane	9.694	88	66	1.150	ug/l #	13
51) 4-Methyl-2-Pentanone	10.424	43	7704	1.364	ug/l	99
54) cis-1,3-Dichloropropene	10.335	75	57441	10.327	ug/l #	67
57) 1,3-Dichloropropane	11.182	76	3238	0.567	ug/l #	42
59) 2-Hexanone	11.188	43	77479	21.700	ug/l #	55
74) N-amyl acetate	12.506	43	1264	0.222	ug/l #	60
76) 1,2,3-Trichloropropane	12.823	75	106489	24.418	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	106489	64.644	ug/l #	1

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

Quant Time: Sep 09 02:29:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

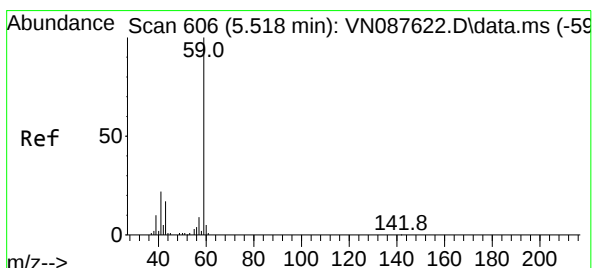
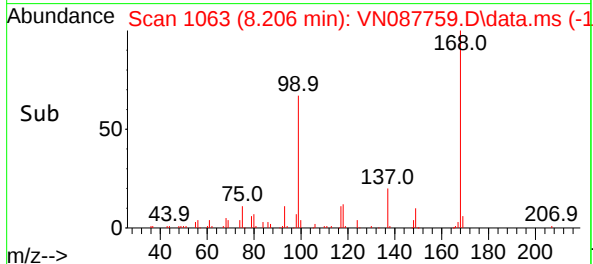
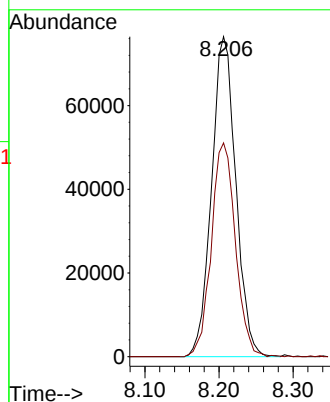
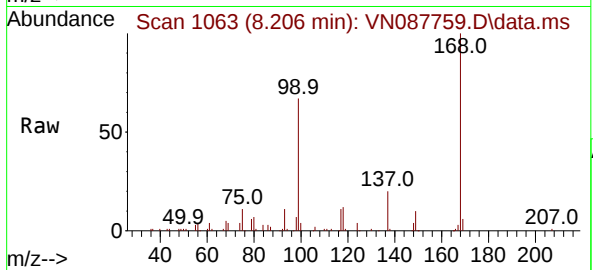




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

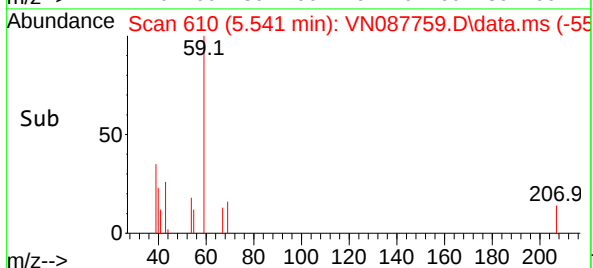
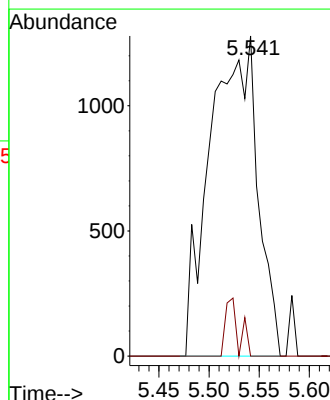
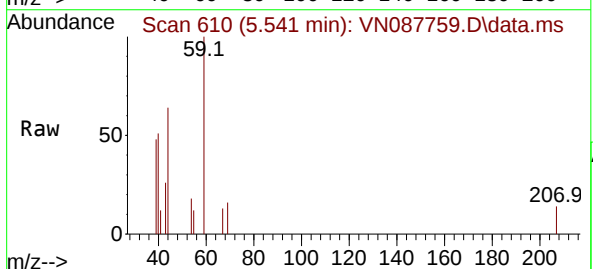
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-1

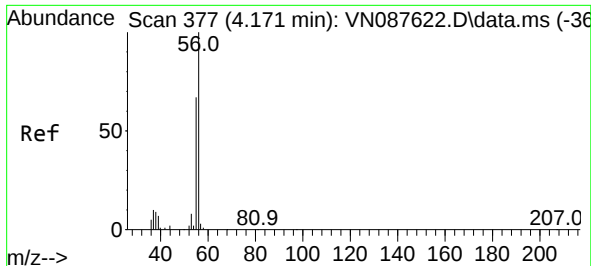
Tgt Ion:168 Resp: 173684
Ion Ratio Lower Upper
168 100
99 66.8 57.2 85.8



#11
Tert butyl alcohol
Concen: 6.776 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.023 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 59 Resp: 4186
Ion Ratio Lower Upper
59 100
57 5.0 9.0 13.4#

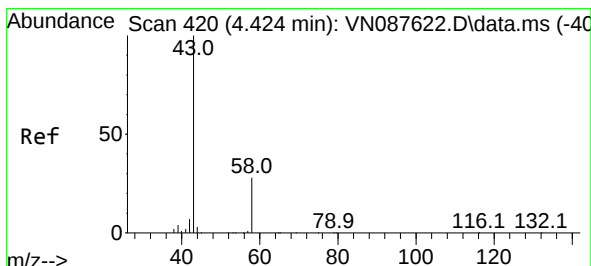
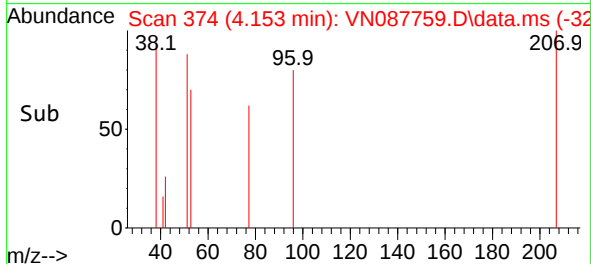
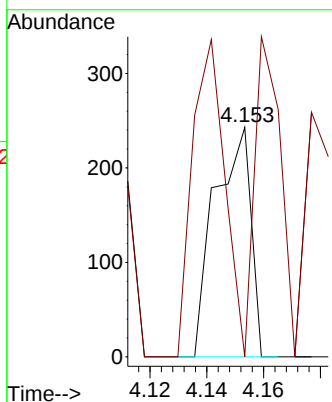
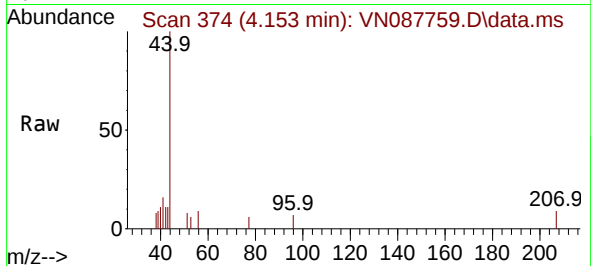




#13
Acrolein
Concen: 0.282 ug/l
RT: 4.153 min Scan# 31
Delta R.T. -0.018 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

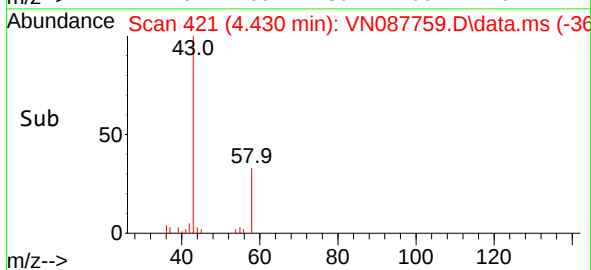
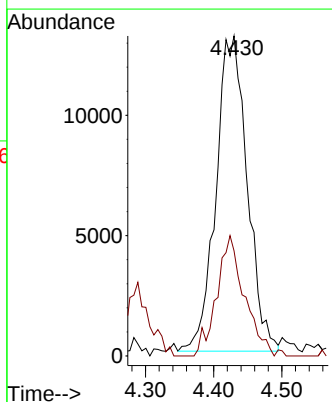
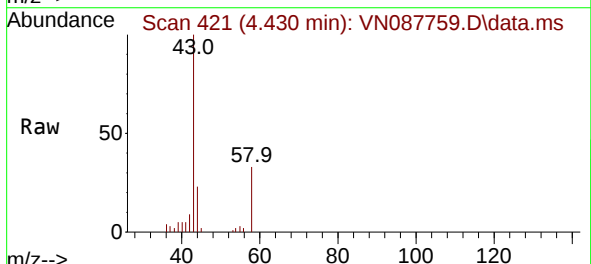
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-1

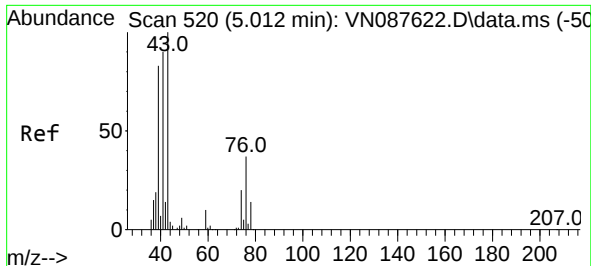
Tgt Ion: 56 Resp: 214
Ion Ratio Lower Upper
56 100
55 99.1 57.3 85.9#



#16
Acetone
Concen: 21.597 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 43 Resp: 41838
Ion Ratio Lower Upper
43 100
58 33.4 22.6 33.8

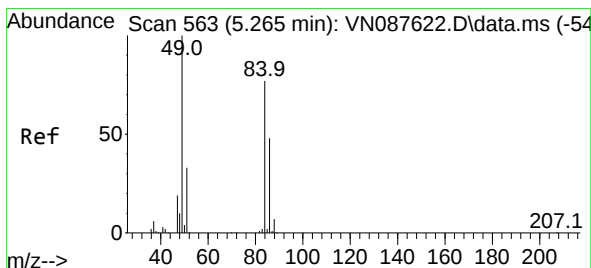
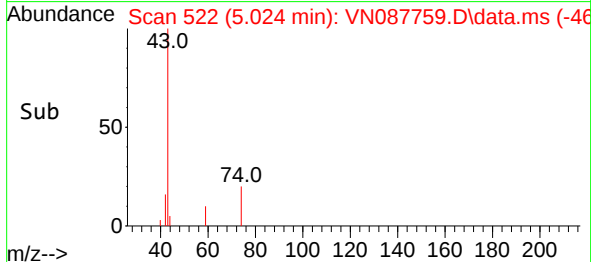
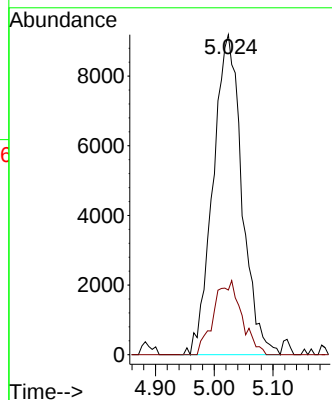
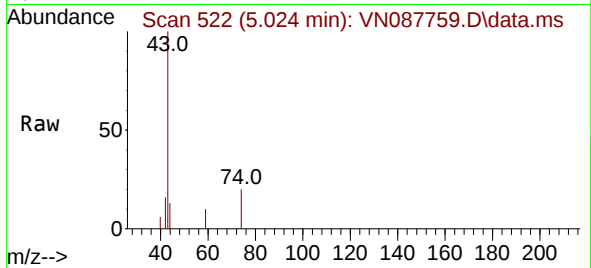




#18
Methyl Acetate
Concen: 7.761 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

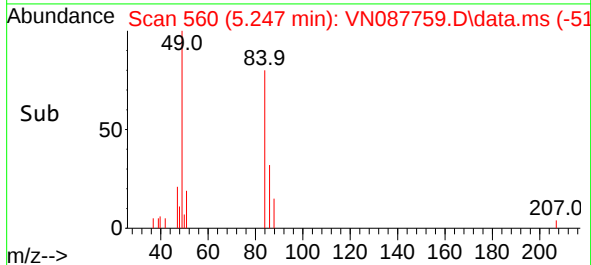
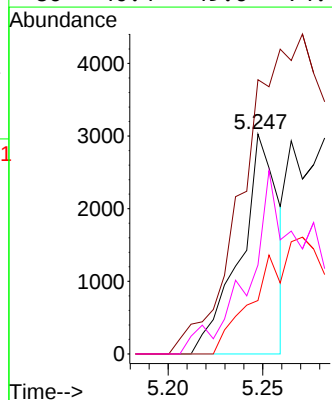
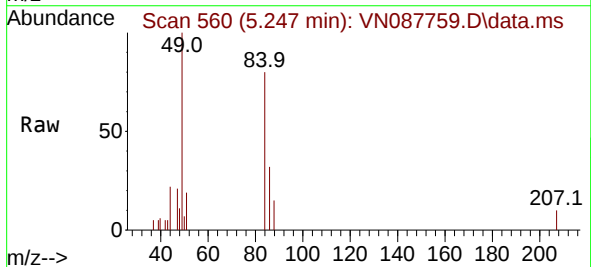
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-1

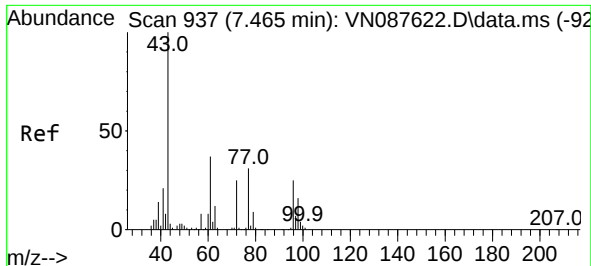
Tgt Ion: 43 Resp: 31478
Ion Ratio Lower Upper
43 100
74 22.2 17.6 26.4



#20
Methylene Chloride
Concen: 0.270 ug/l
RT: 5.247 min Scan# 560
Delta R.T. -0.018 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 84 Resp: 4217
Ion Ratio Lower Upper
84 100
49 117.8 103.4 155.2
51 24.3 33.8 50.8#
86 40.4 49.6 74.4#

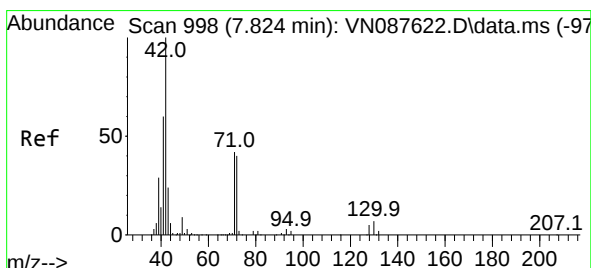
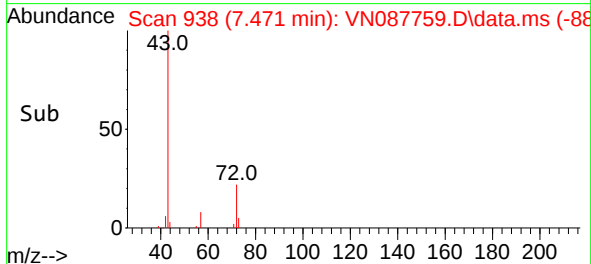
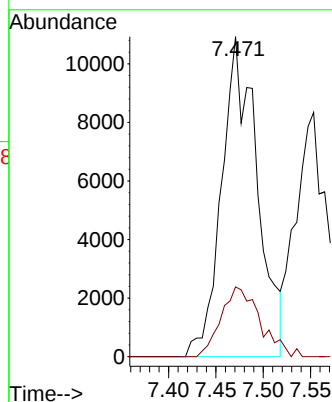
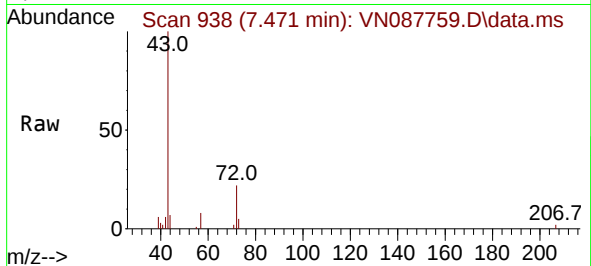




#25
2-Butanone
Concen: 11.176 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

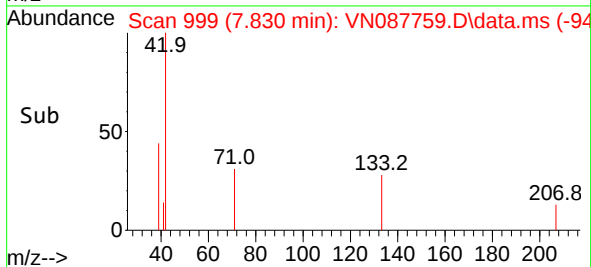
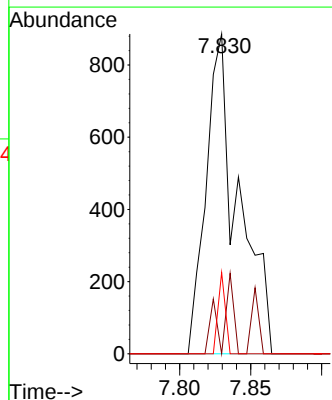
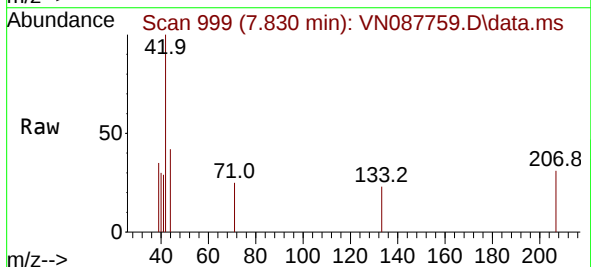
Instrument :
MSVOA_N
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SOIL-PILE-1

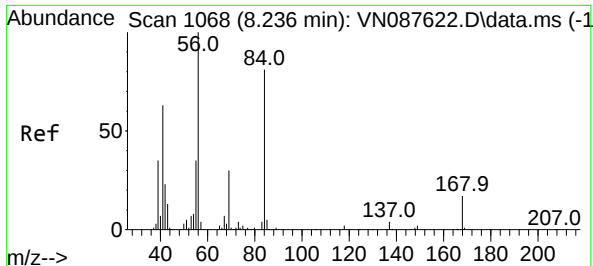
Tgt Ion: 43 Resp: 28484
Ion Ratio Lower Upper
43 100
72 21.8 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.851 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 42 Resp: 1395
Ion Ratio Lower Upper
42 100
72 3.9 33.7 50.5#
71 5.7 31.9 47.9#

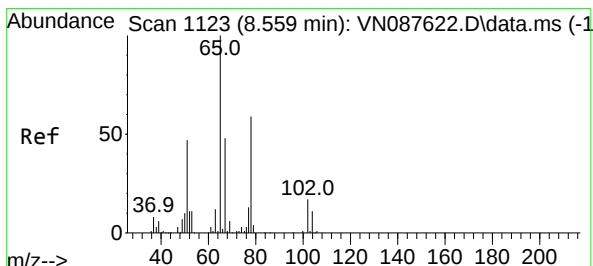
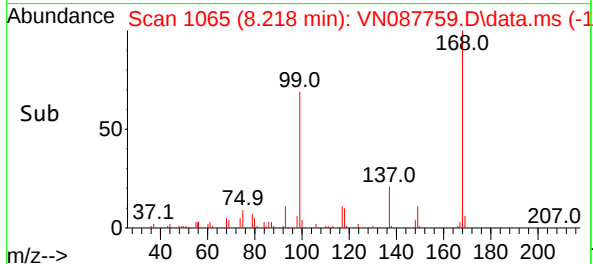
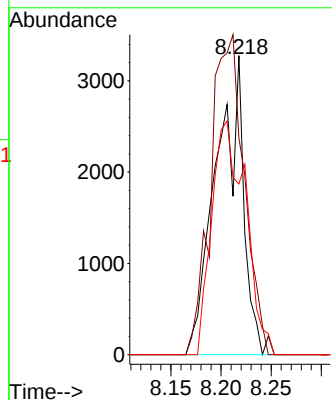
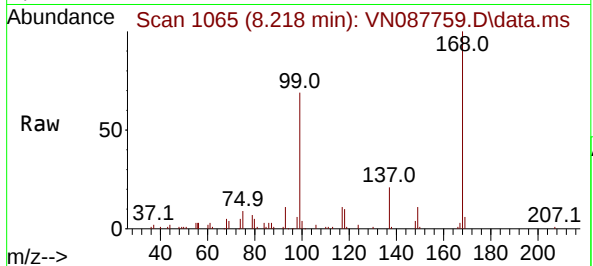




#31
Cyclohexane
Concen: 1.414 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.018 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

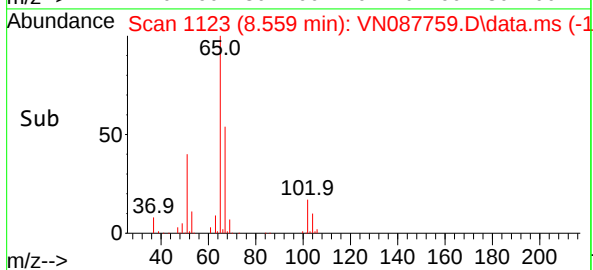
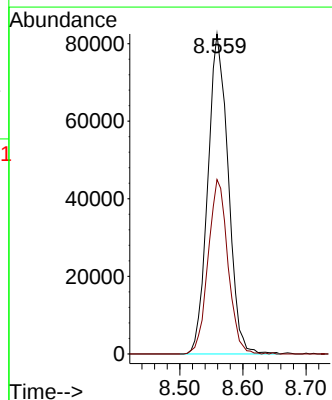
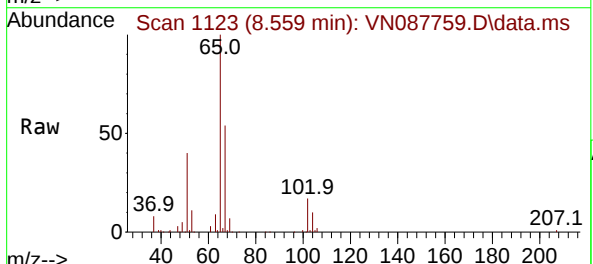
Instrument :
MSVOA_N
ClientSampleId :
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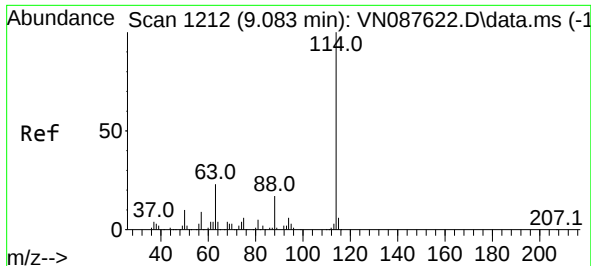
Tgt Ion: 56 Resp: 6328
Ion Ratio Lower Upper
56 100
69 72.5 23.7 35.5#
84 65.9 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 51.903 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 65 Resp: 184702
Ion Ratio Lower Upper
65 100
67 53.0 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087759.D

Acq: 08 Sep 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE-1

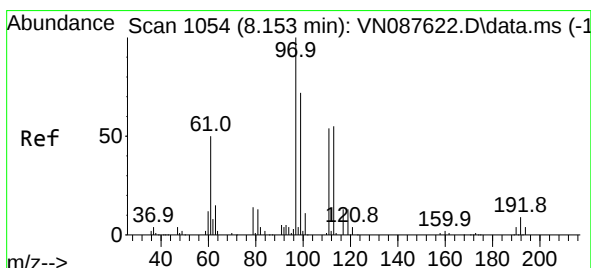
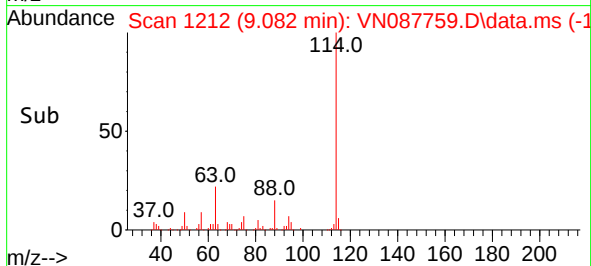
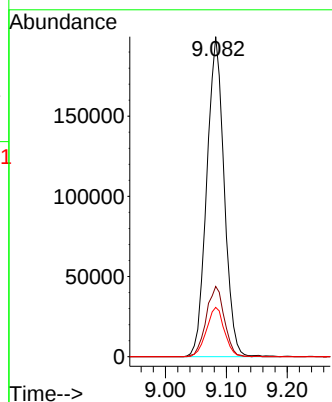
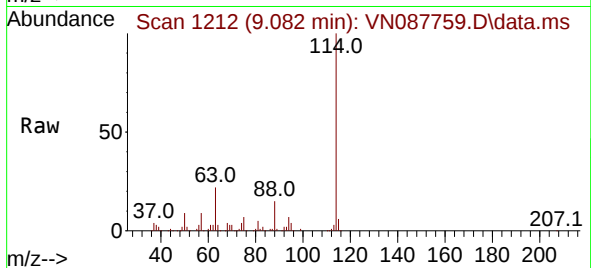
Tgt Ion:114 Resp: 396253

Ion Ratio Lower Upper

114 100

63 21.9 0.0 45.2

88 15.4 0.0 33.4



#35

Dibromofluoromethane

Concen: 50.301 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087759.D

Acq: 08 Sep 2025 14:21

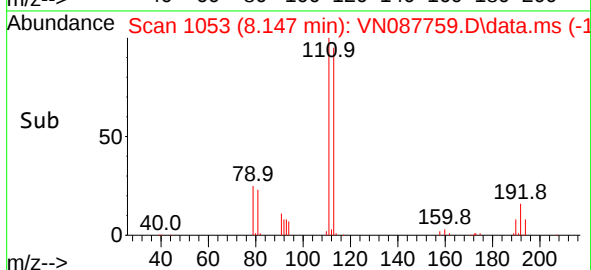
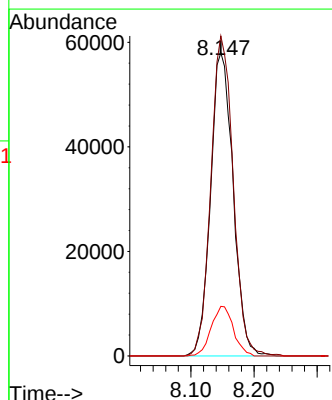
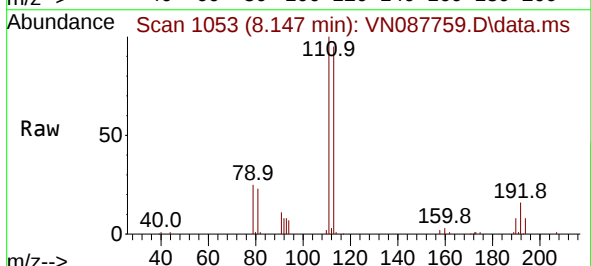
Tgt Ion:113 Resp: 143909

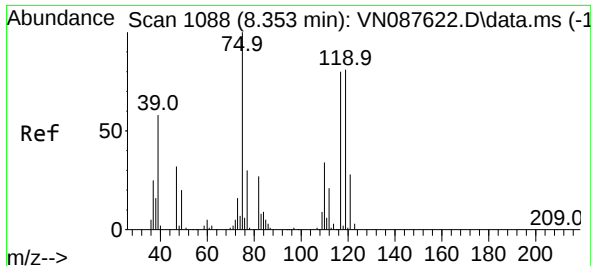
Ion Ratio Lower Upper

113 100

111 104.4 82.8 124.2

192 16.1 12.8 19.2

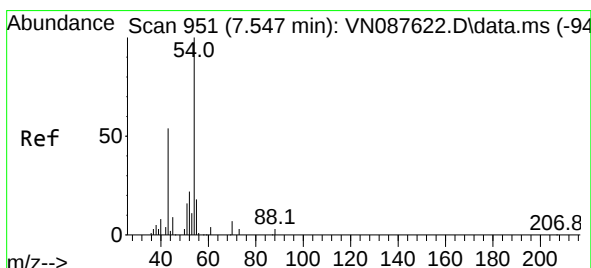
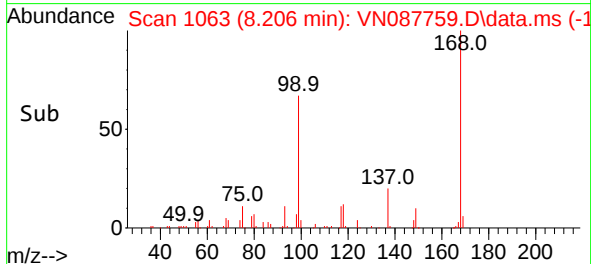
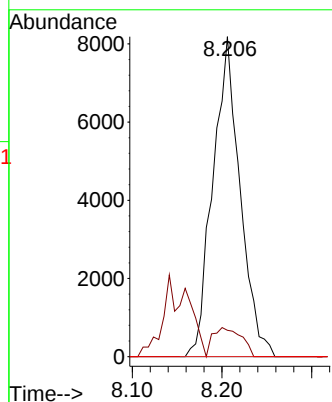
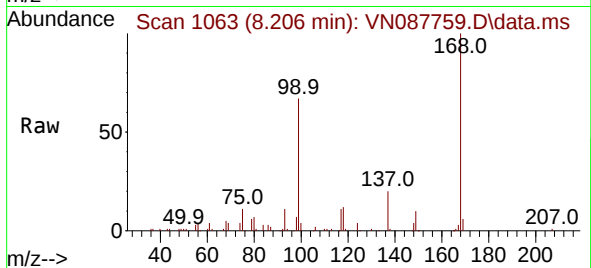




#36
1,1-Dichloropropene
Concen: 3.925 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

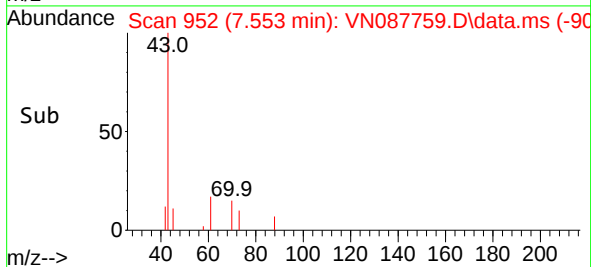
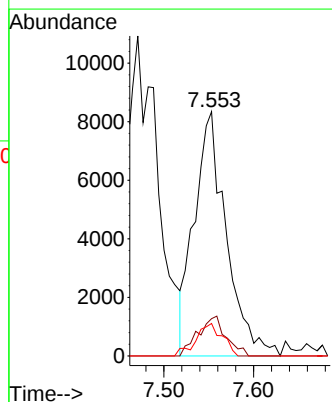
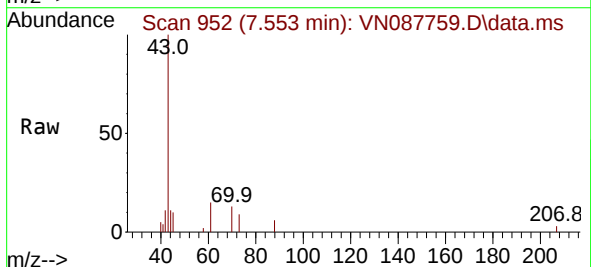
Instrument :
MSVOA_N
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SOIL-PILE-1

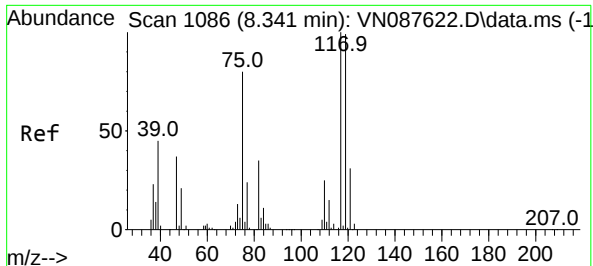
Tgt Ion: 75 Resp: 17226
Ion Ratio Lower Upper
75 100
110 9.5 15.9 47.6#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 3.442 ug/l
RT: 7.553 min Scan# 952
Delta R.T. 0.006 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 43 Resp: 20641
Ion Ratio Lower Upper
43 100
61 14.2 9.3 13.9#
70 11.0 7.0 10.6#

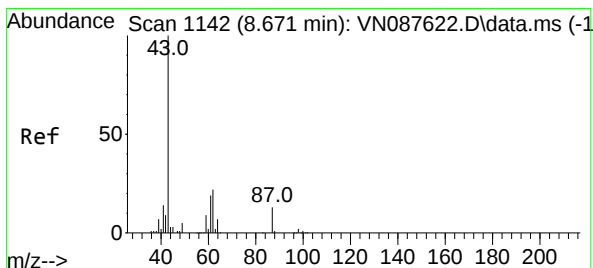
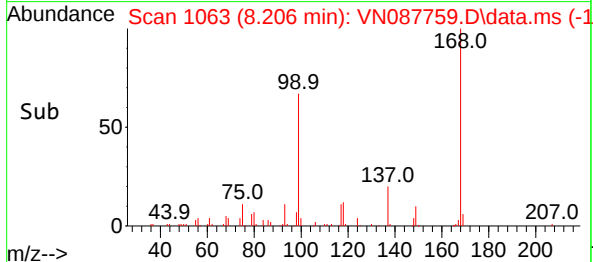
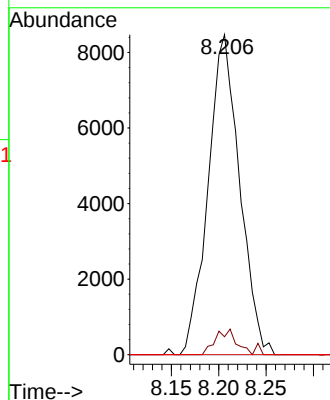
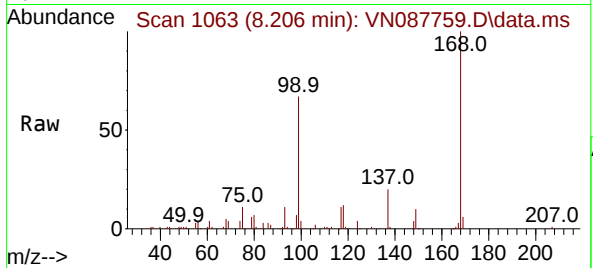




#38
Carbon Tetrachloride
Concen: 4.532 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

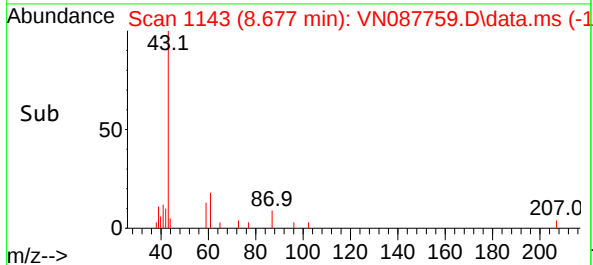
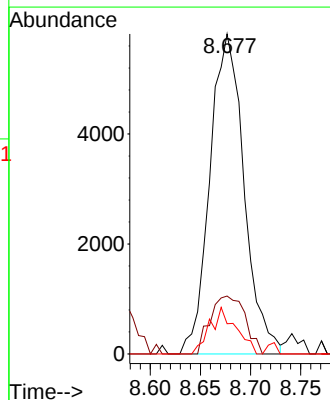
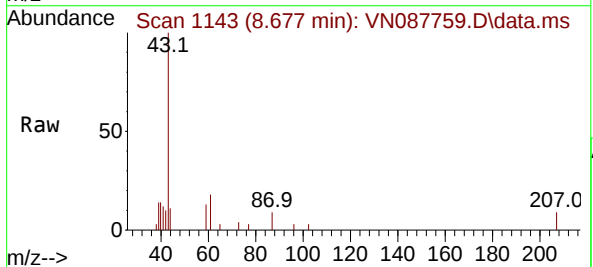
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-1

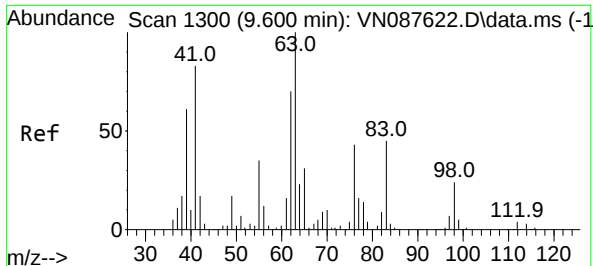
Tgt Ion:117 Resp: 19639
Ion Ratio Lower Upper
117 100
119 5.6 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 1.474 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 43 Resp: 13801
Ion Ratio Lower Upper
43 100
61 18.5 18.8 28.2#
87 11.1 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.430 ug/l

RT: 9.718 min Scan# 1320

Delta R.T. 0.118 min

Lab File: VN087759.D

Acq: 08 Sep 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

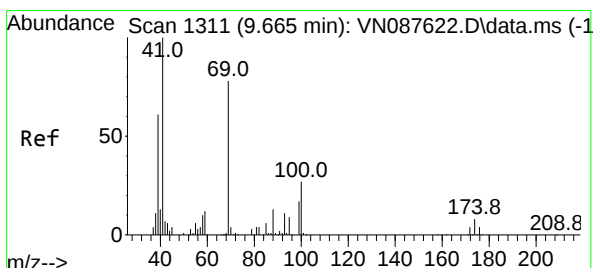
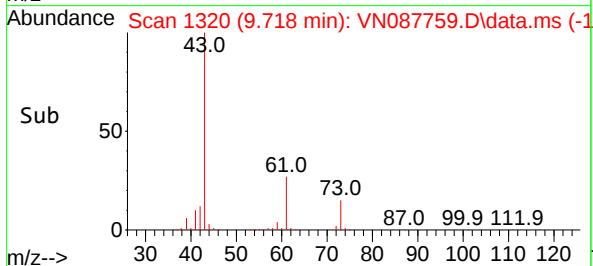
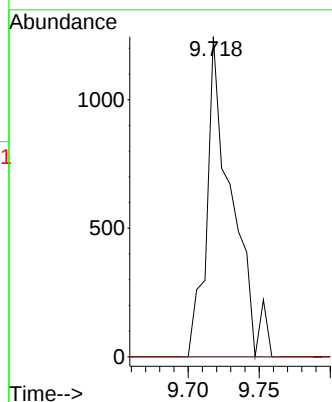
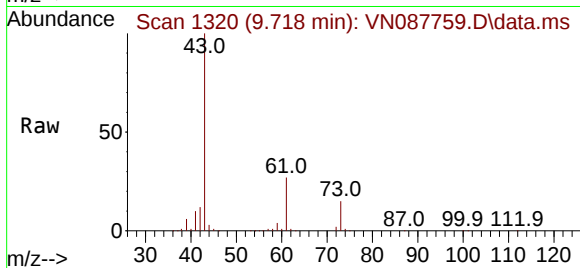
SOIL-PILE-1

Tgt Ion: 63 Resp: 1526

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 27.072 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087759.D

Acq: 08 Sep 2025 14:21

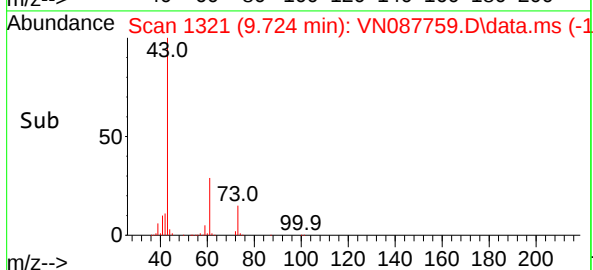
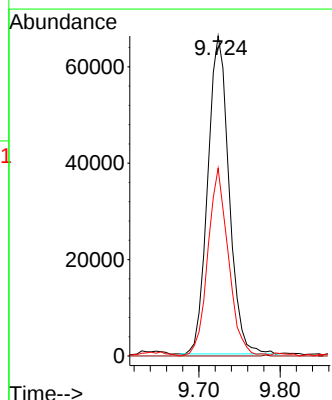
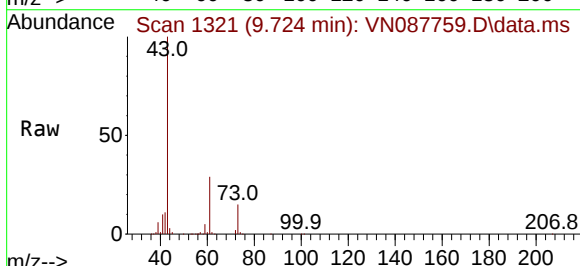
Tgt Ion: 41 Resp: 119904

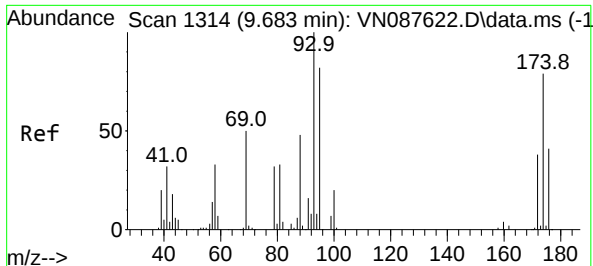
Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 57.2 52.9 79.3





#49

1,4-Dioxane

Concen: 1.150 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.012 min

Lab File: VN087759.D

Acq: 08 Sep 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE-1

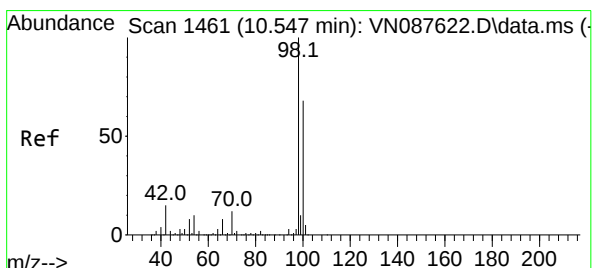
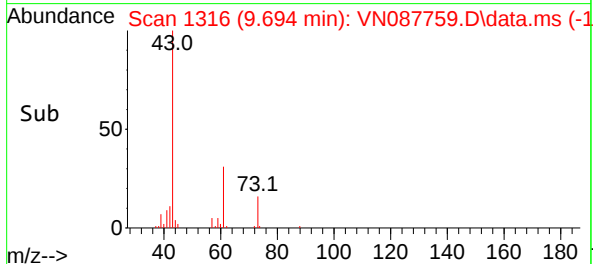
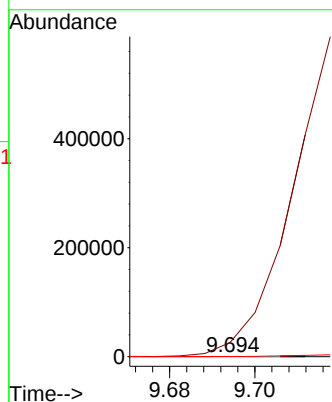
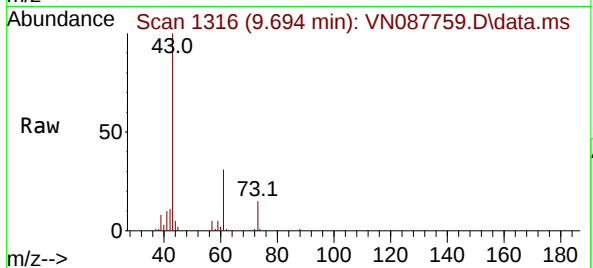
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 57.9 86.9#



#50

Toluene-d8

Concen: 50.135 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087759.D

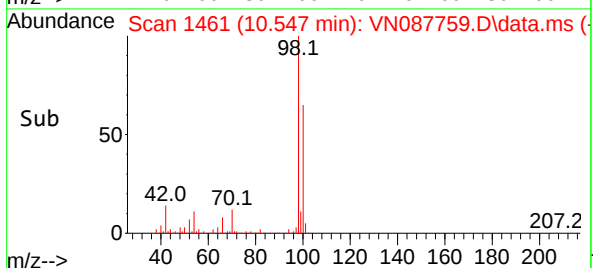
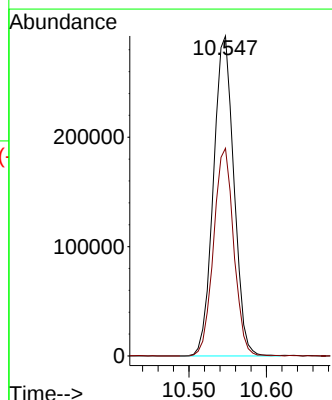
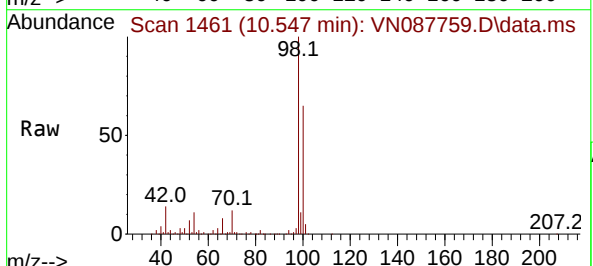
Acq: 08 Sep 2025 14:21

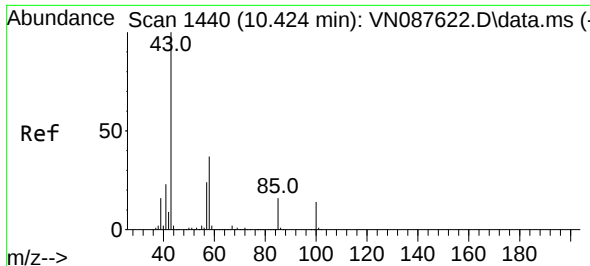
Tgt Ion: 98 Resp: 536840

Ion Ratio Lower Upper

98 100

100 63.9 52.8 79.2

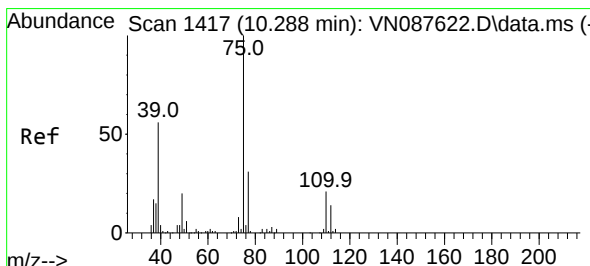
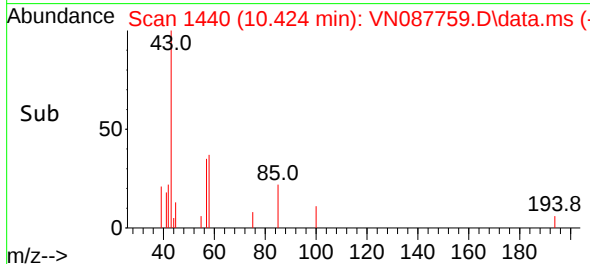
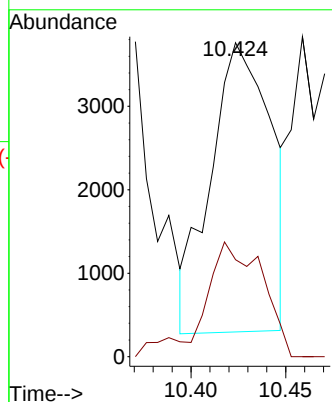
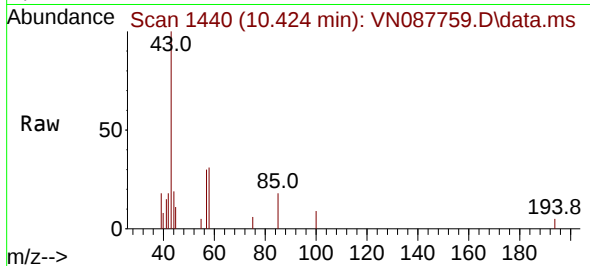




#51
4-Methyl-2-Pentanone
Concen: 1.364 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

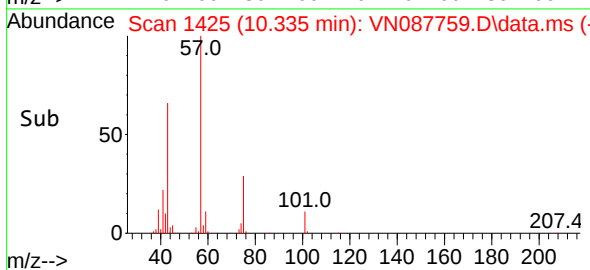
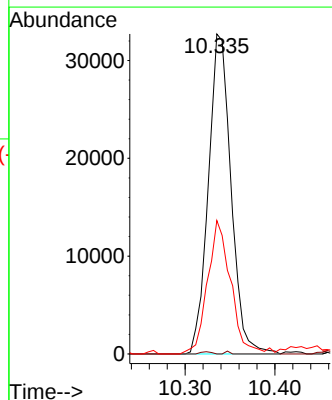
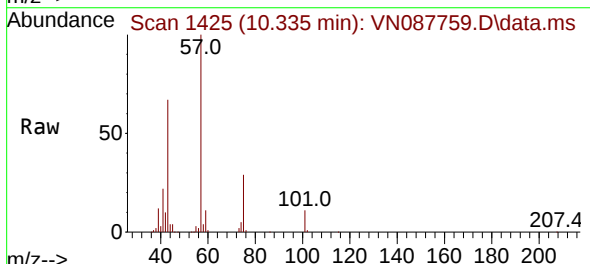
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-1

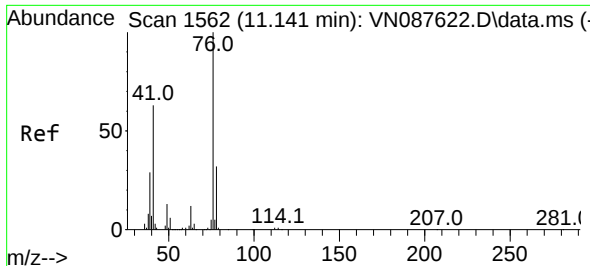
Tgt Ion: 43 Resp: 7704
Ion Ratio Lower Upper
43 100
58 37.6 29.6 44.4



#54
cis-1,3-Dichloropropene
Concen: 10.327 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 75 Resp: 57441
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
39 41.7 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.567 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN087759.D

Acq: 08 Sep 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

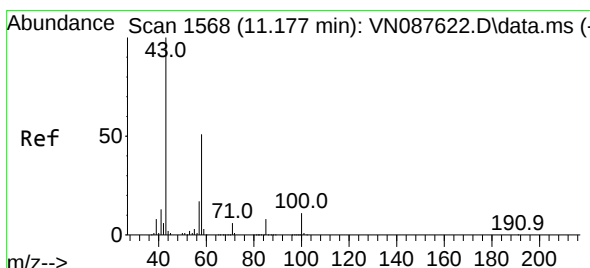
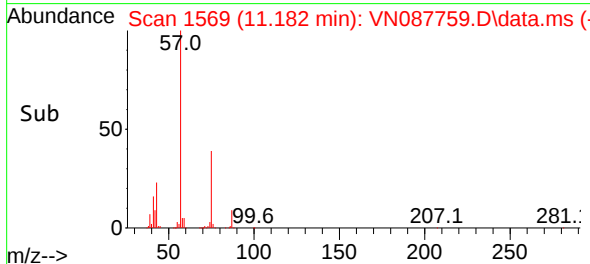
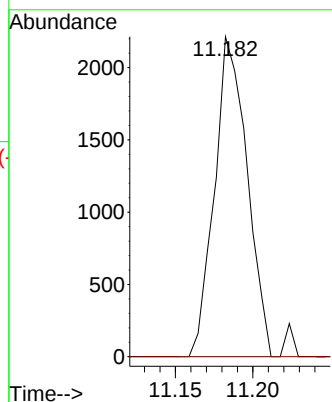
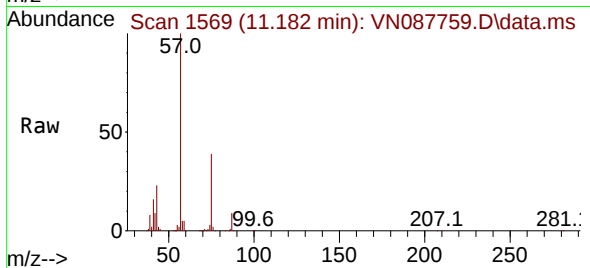
SOIL-PILE-1

Tgt Ion: 76 Resp: 3238

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 21.700 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN087759.D

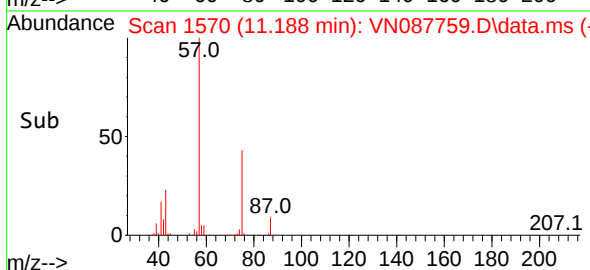
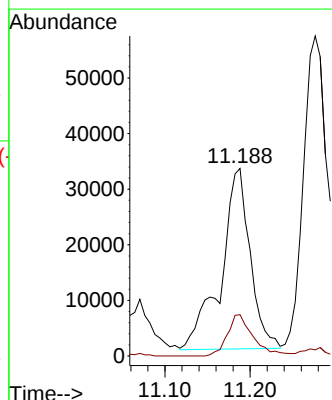
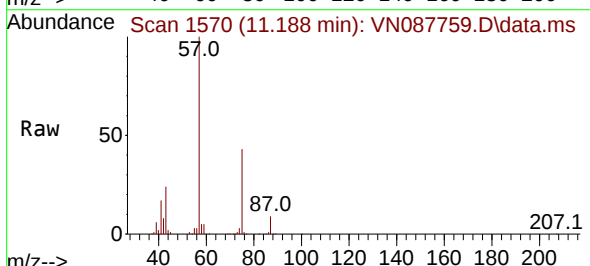
Acq: 08 Sep 2025 14:21

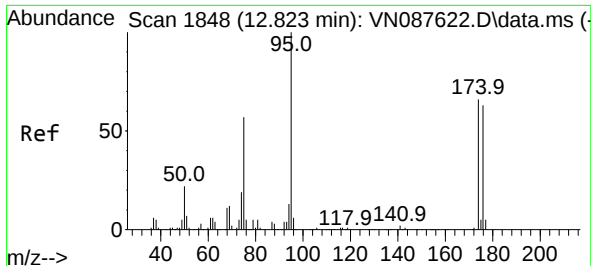
Tgt Ion: 43 Resp: 77479

Ion Ratio Lower Upper

43 100

58 20.1 25.9 77.8#

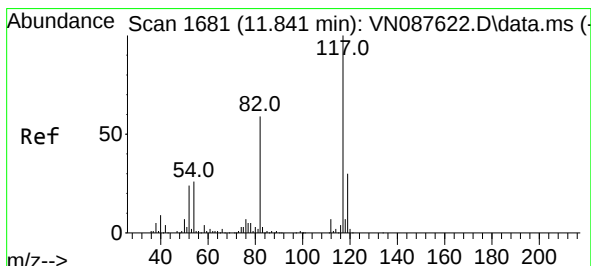
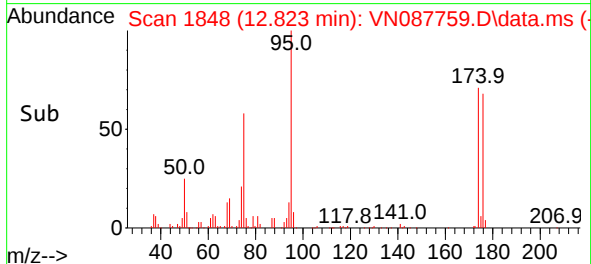
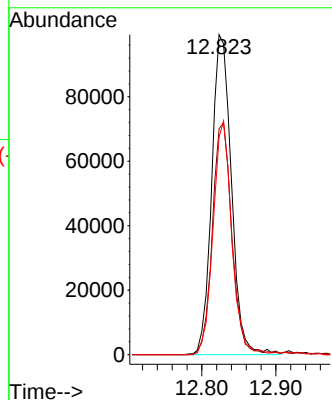
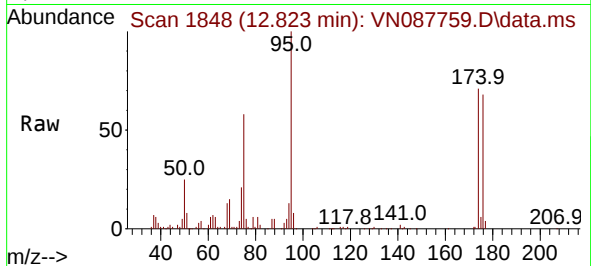




#62
4-Bromofluorobenzene
Concen: 48.039 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

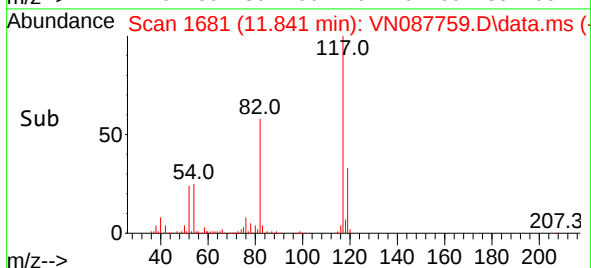
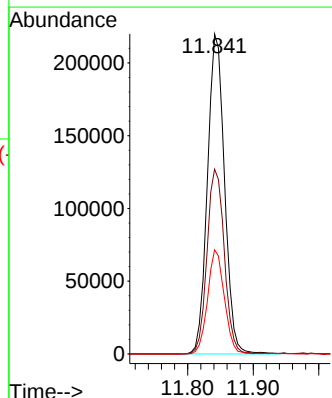
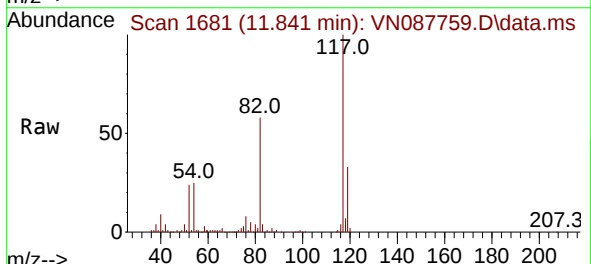
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-1

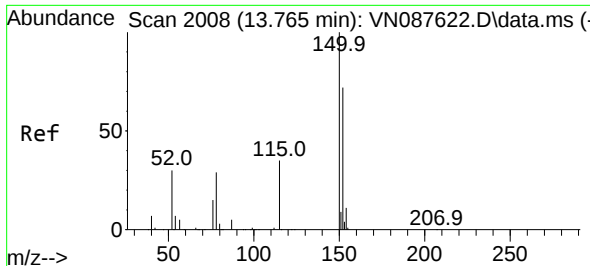
Tgt Ion: 95 Resp: 182937
Ion Ratio Lower Upper
95 100
174 71.2 0.0 138.4
176 69.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 117 Resp: 398856
Ion Ratio Lower Upper
117 100
82 57.7 47.4 71.2
119 32.6 24.3 36.5

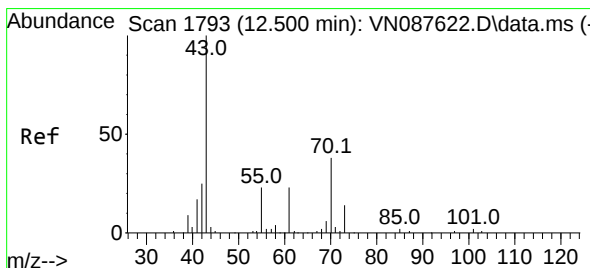
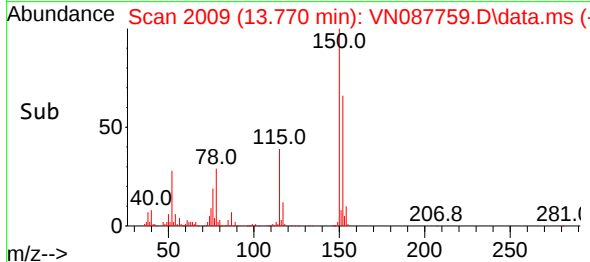
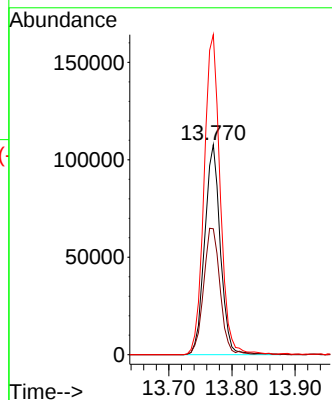
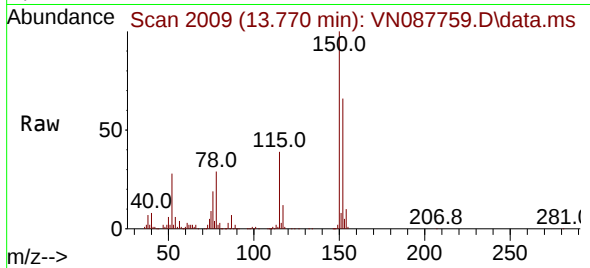




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

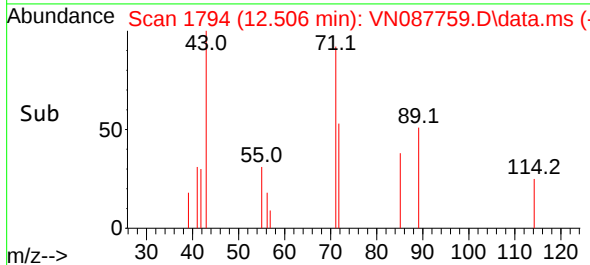
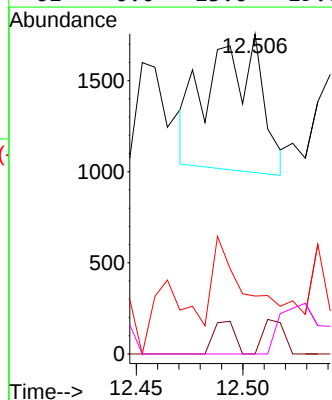
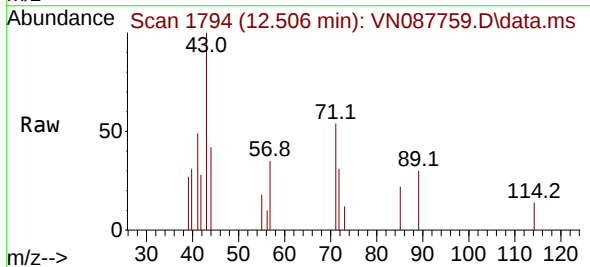
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-1

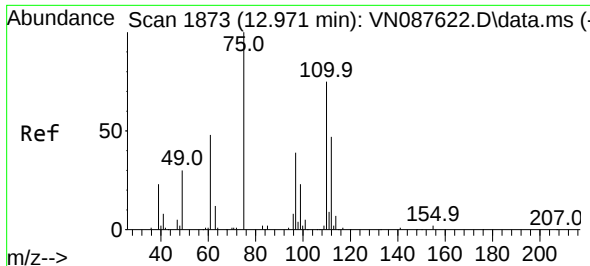
Tgt Ion:152 Resp: 185969
Ion Ratio Lower Upper
152 100
115 63.3 32.3 96.8
150 156.4 0.0 351.0



#74
N-ethyl acetate
Concen: 0.222 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 43 Resp: 1264
Ion Ratio Lower Upper
43 100
70 10.0 27.6 41.4#
55 0.0 13.0 19.6#
61 0.0 13.0 19.6#

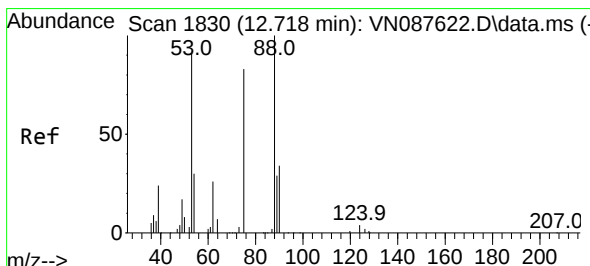
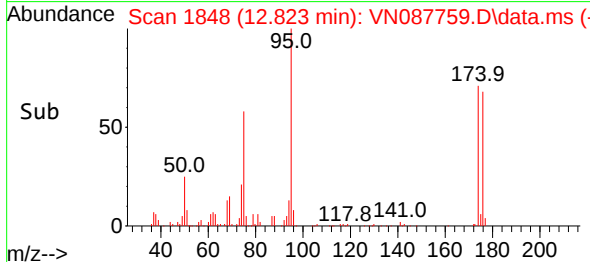
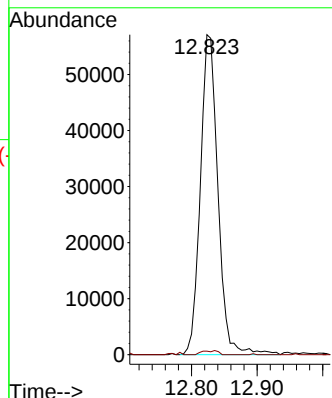
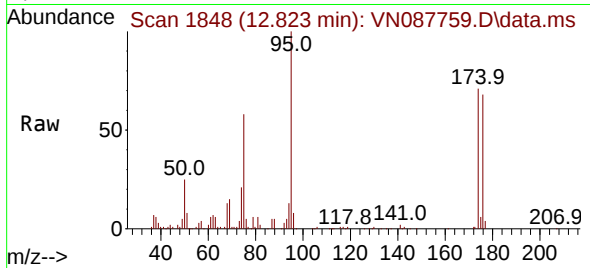




#76
1,2,3-Trichloropropane
Concen: 24.418 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE-1

Tgt Ion: 75 Resp: 106489
Ion Ratio Lower Upper
75 100
77 1.1 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.644 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN087759.D
Acq: 08 Sep 2025 14:21

Tgt Ion: 75 Resp: 106489
Ion Ratio Lower Upper
75 100
53 0.4 101.8 152.6#
89 0.2 35.6 53.4#

