

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085815.D
 Acq On : 21 Feb 2025 20:14
 Operator : JC\MD
 Sample : Q1393-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-COMP

Quant Time: Feb 22 02:41:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

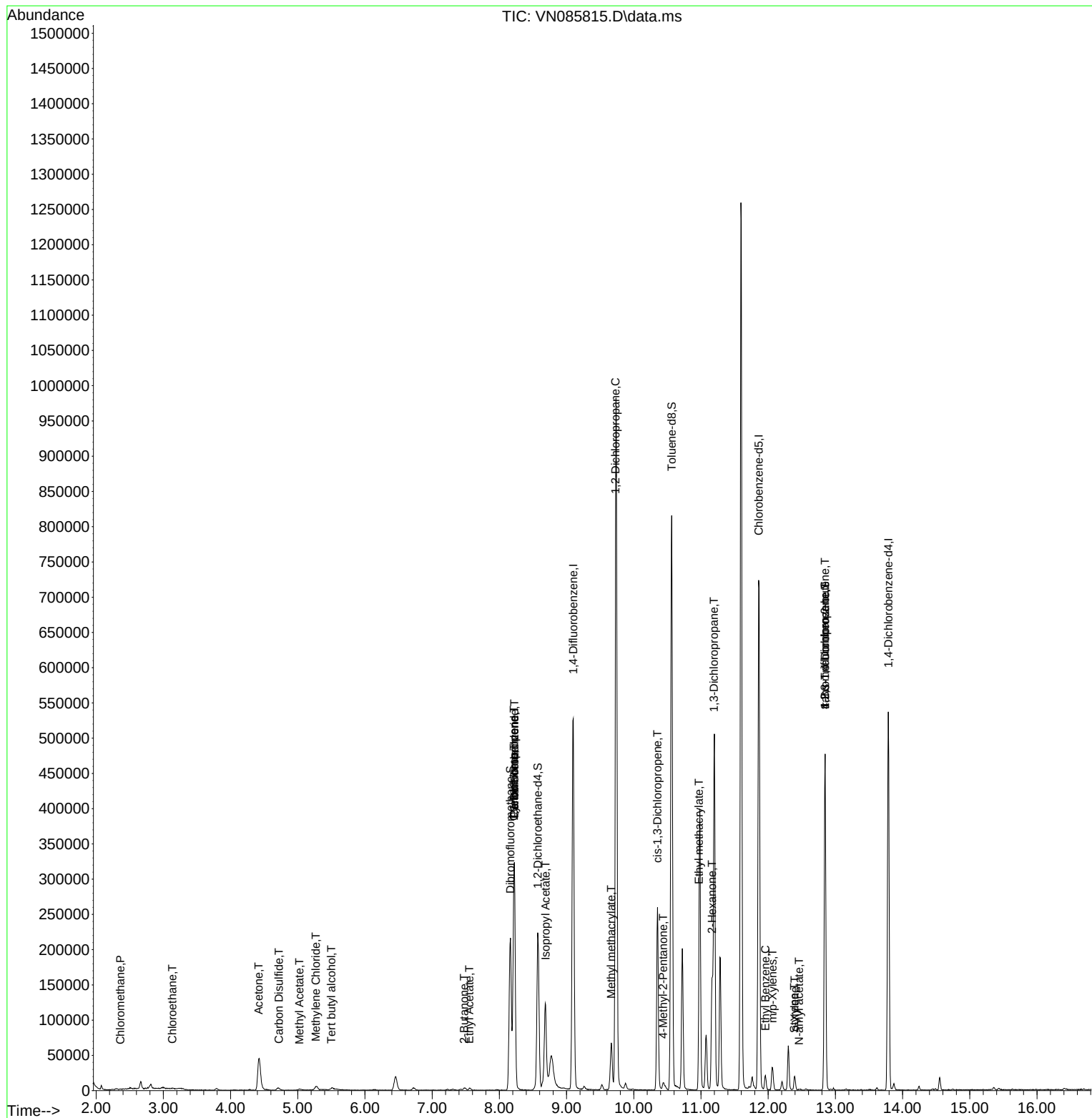
Internal Standards						
1) Pentafluorobenzene	8.224	168	235497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	466003	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	432978	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	152193	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	183237	60.016	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.040%			
35) Dibromofluoromethane	8.165	113	157000	51.487	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.980%			
50) Toluene-d8	10.565	98	583754	52.618	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.240%			
62) 4-Bromofluorobenzene	12.847	95	166099	45.440	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.880%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	662	0.206	ug/l #	61
6) Chloroethane	3.136	64	587	0.260	ug/l #	41
11) Tert butyl alcohol	5.500	59	2355	6.271	ug/l	96
16) Acetone	4.418	43	87373	90.442	ug/l	98
17) Carbon Disulfide	4.718	76	1612	0.211	ug/l #	75
18) Methyl Acetate	5.024	43	3346	1.007	ug/l #	65
20) Methylene Chloride	5.271	84	4108	1.322	ug/l #	73
25) 2-Butanone	7.477	43	6007	4.227	ug/l	94
31) Cyclohexane	8.218	56	5300	1.215	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	20135	4.666	ug/l #	49
37) Ethyl Acetate	7.553	43	4289	1.208	ug/l	96
38) Carbon Tetrachloride	8.224	117	25259	4.926	ug/l #	19
43) Isopropyl Acetate	8.688	43	141257	22.362	ug/l #	85
45) 1,2-Dichloropropane	9.729	63	1192	0.357	ug/l #	43
48) Methyl methacrylate	9.665	41	4780	1.812	ug/l #	37
51) 4-Methyl-2-Pentanone	10.435	43	12443	3.634	ug/l #	70
54) cis-1,3-Dichloropropene	10.353	75	46443	9.091	ug/l #	67
56) Ethyl methacrylate	10.971	69	2614	1.089	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	5322	0.989	ug/l #	42
59) 2-Hexanone	11.165	43	127233	54.013	ug/l #	21
67) Ethyl Benzene	11.959	91	8333	0.536	ug/l	98
68) m/p-Xylenes	12.065	106	10826	1.834	ug/l	95
69) o-Xylene	12.394	106	5414	0.965	ug/l	100
70) Styrene	12.388	104	470	0.633	ug/l #	1
74) N-amyl acetate	12.459	43	870	0.237	ug/l #	40
76) 1,2,3-Trichloropropane	12.847	75	83418	24.675	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83418	71.995	ug/l #	12

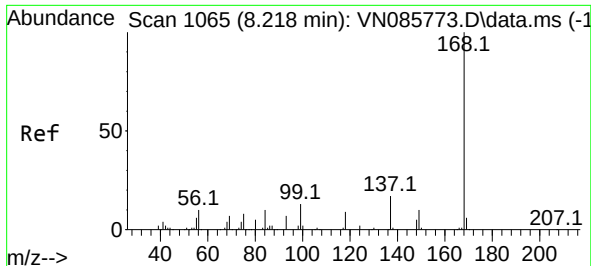
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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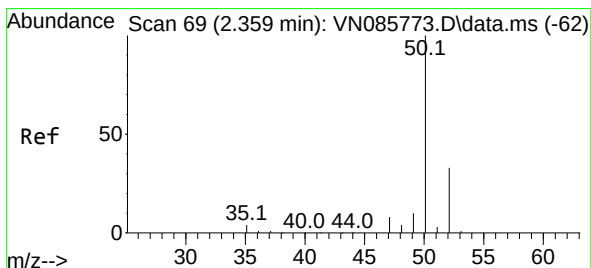
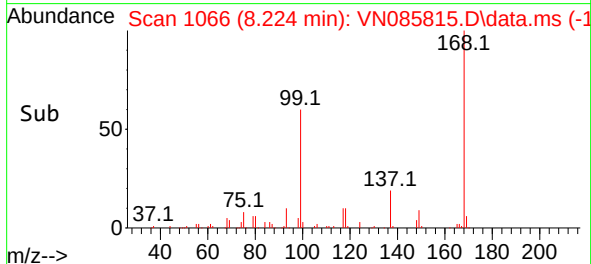
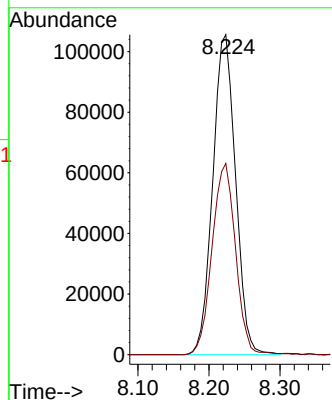
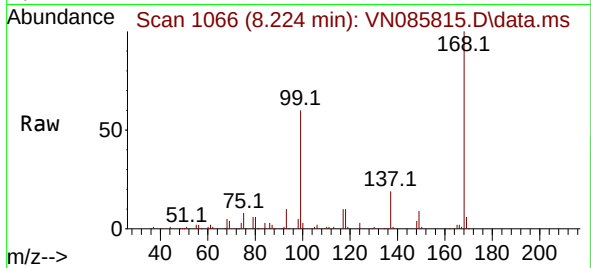




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

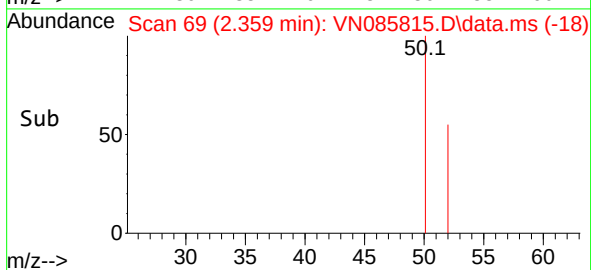
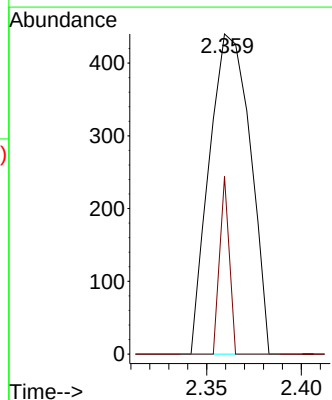
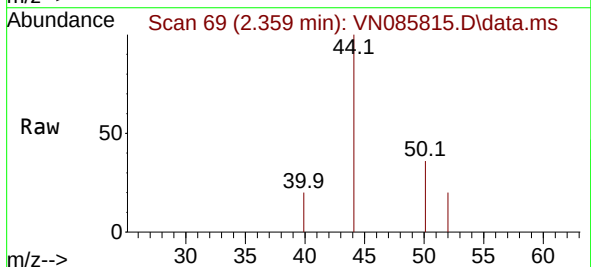
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

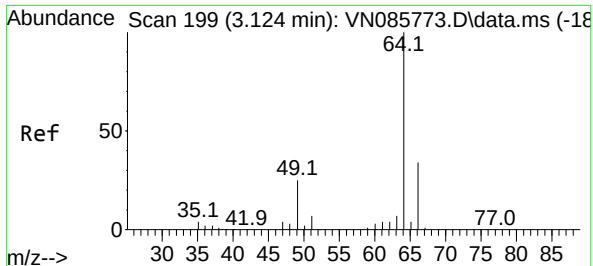
Tgt Ion:168 Resp: 235497
Ion Ratio Lower Upper
168 100
99 59.7 47.9 71.9



#3
Chloromethane
Concen: 0.206 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 50 Resp: 662
Ion Ratio Lower Upper
50 100
52 55.5 26.7 40.1#

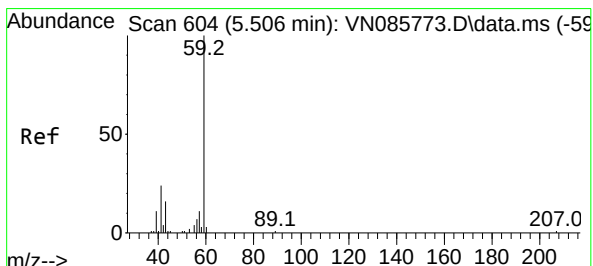
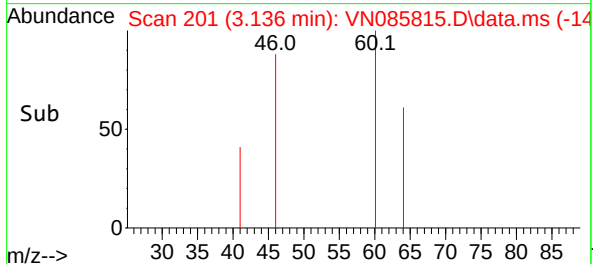
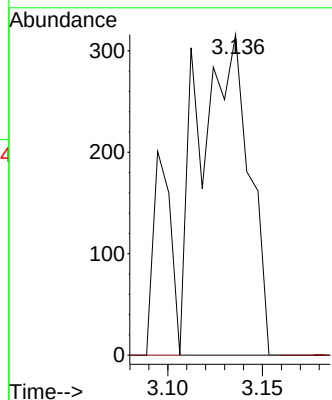
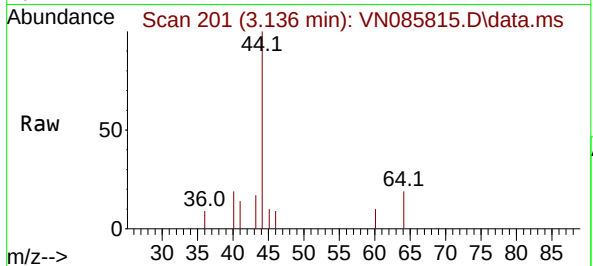




#6
Chloroethane
Concen: 0.260 ug/l
RT: 3.136 min Scan# 20
Delta R.T. 0.012 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

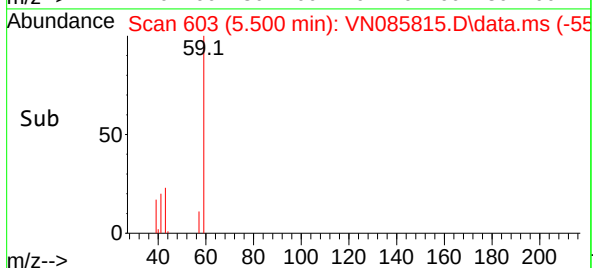
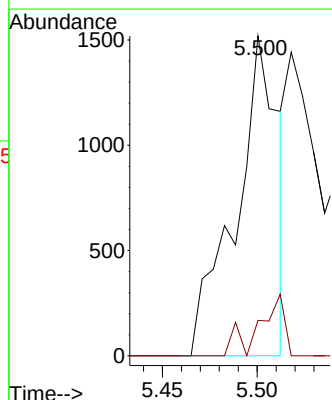
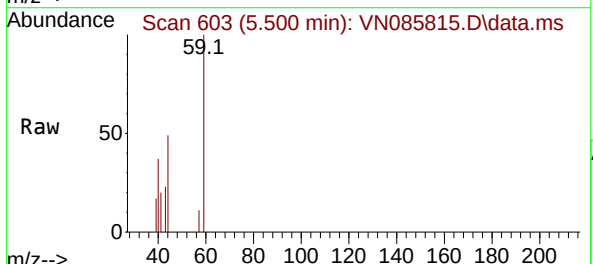
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

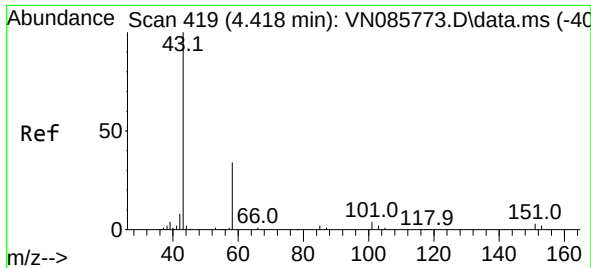
Tgt Ion: 64 Resp: 587
Ion Ratio Lower Upper
64 100
66 0.0 27.0 40.6#



#11
Tert butyl alcohol
Concen: 6.271 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.006 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 59 Resp: 2355
Ion Ratio Lower Upper
59 100
57 11.8 8.3 12.5

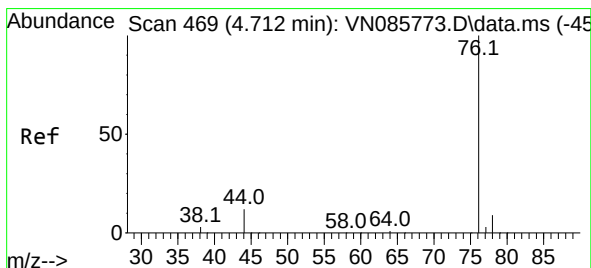
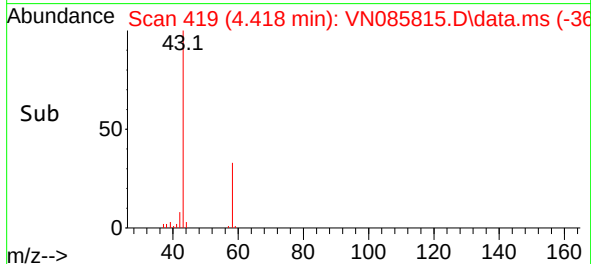
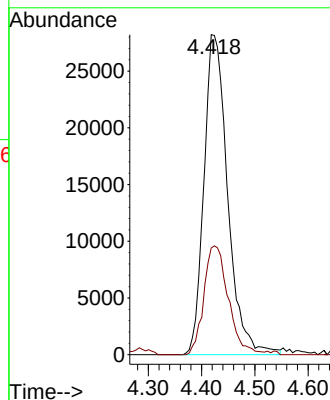
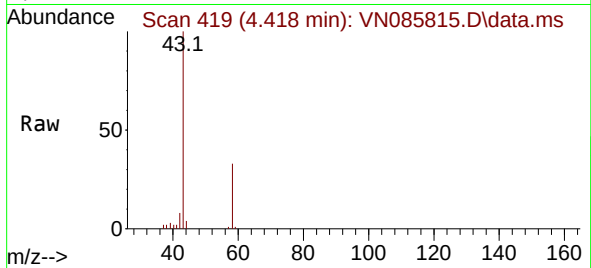




#16
Acetone
Concen: 90.442 ug/l
RT: 4.418 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

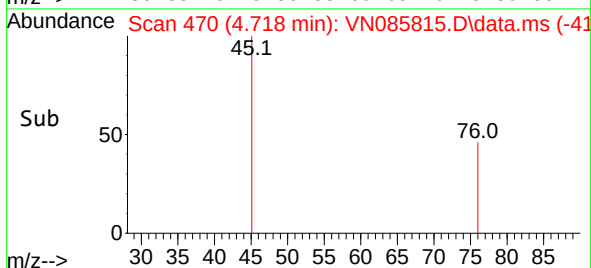
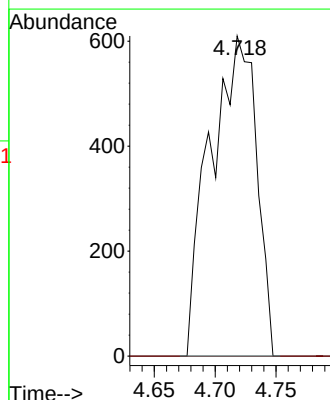
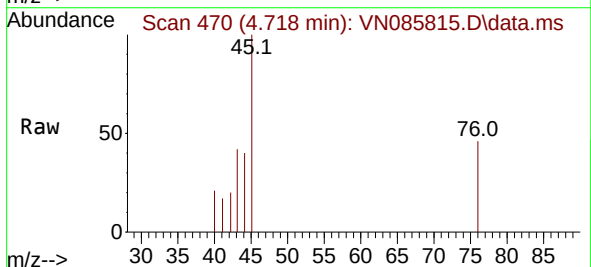
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

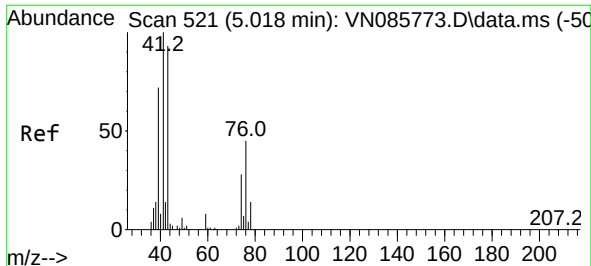
Tgt Ion: 43 Resp: 87373
Ion Ratio Lower Upper
43 100
58 33.4 27.5 41.3



#17
Carbon Disulfide
Concen: 0.211 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 76 Resp: 1612
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#





#18

Methyl Acetate

Concen: 1.007 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN085815.D

Acq: 21 Feb 2025 20:14

Instrument :

MSVOA_N

ClientSampleId :

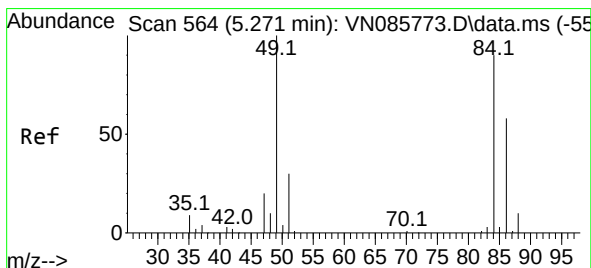
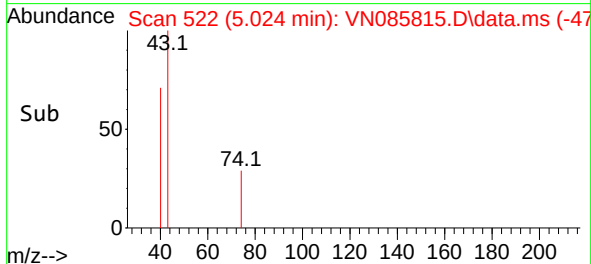
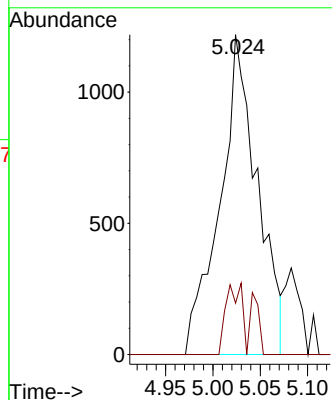
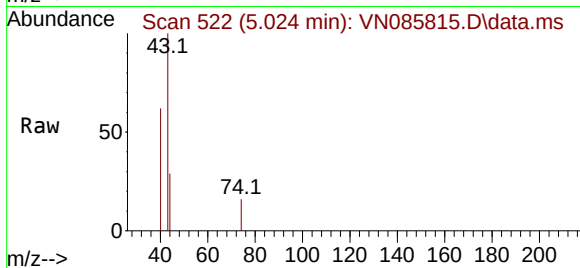
SOIL-COMP

Tgt Ion: 43 Resp: 3346

Ion Ratio Lower Upper

43 100

74 9.5 22.2 33.4#



#20

Methylene Chloride

Concen: 1.322 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085815.D

Acq: 21 Feb 2025 20:14

Tgt Ion: 84 Resp: 4108

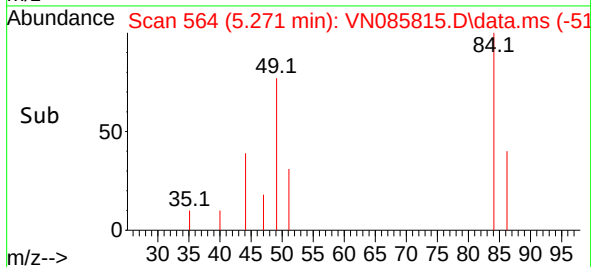
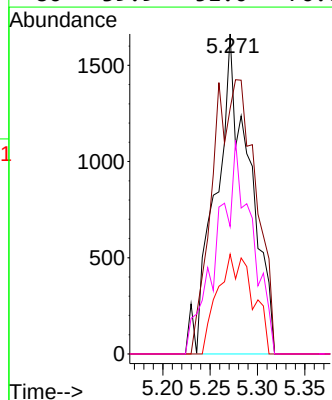
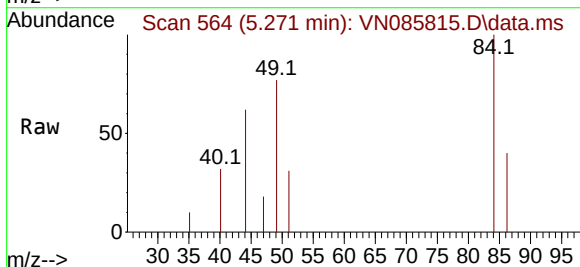
Ion Ratio Lower Upper

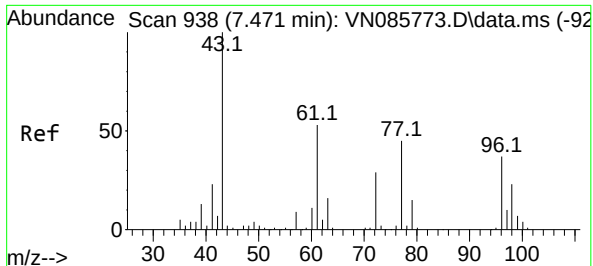
84 100

49 76.7 88.4 132.6#

51 31.1 26.6 40.0

86 39.9 51.0 76.6#

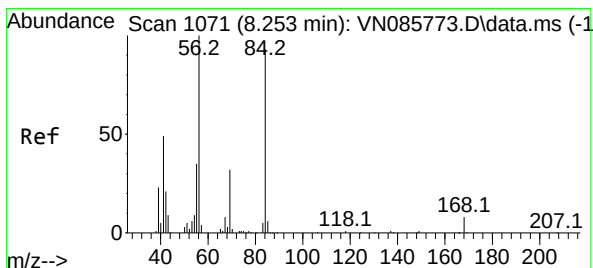
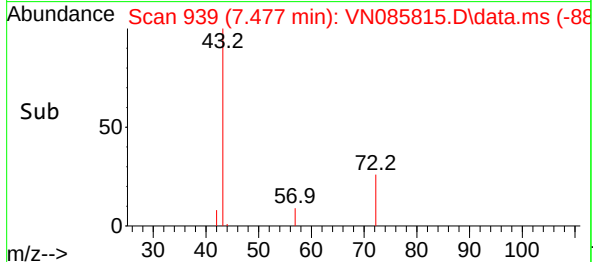
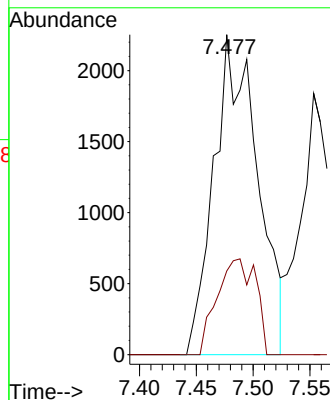
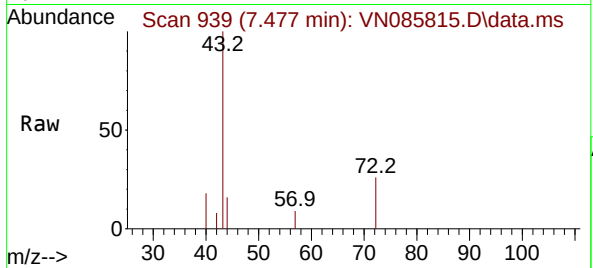




#25
2-Butanone
Concen: 4.227 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

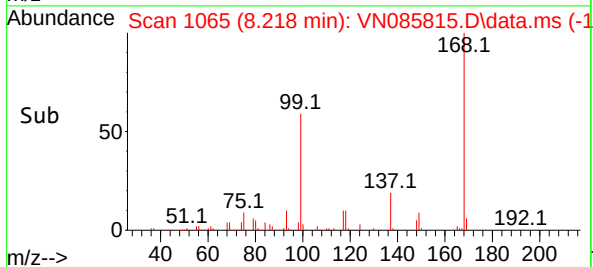
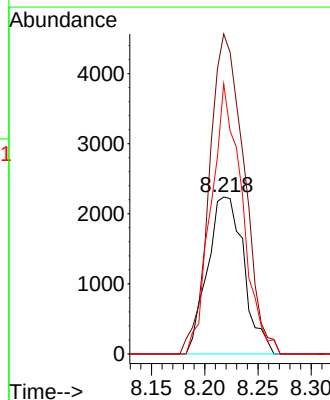
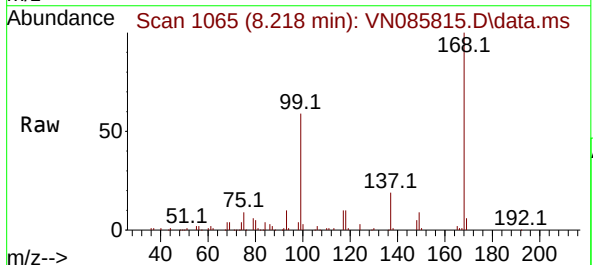
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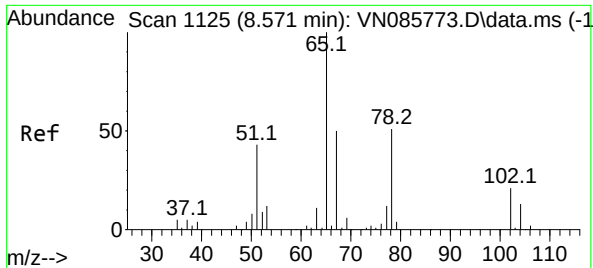
Tgt Ion: 43 Resp: 6007
Ion Ratio Lower Upper
43 100
72 26.1 23.6 35.4



#31
Cyclohexane
Concen: 1.215 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 56 Resp: 5300
Ion Ratio Lower Upper
56 100
69 203.9 25.8 38.6#
84 172.0 74.5 111.7#





#33

1,2-Dichloroethane-d4

Concen: 60.016 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085815.D

Acq: 21 Feb 2025 20:14

Instrument :

MSVOA_N

ClientSampleId :

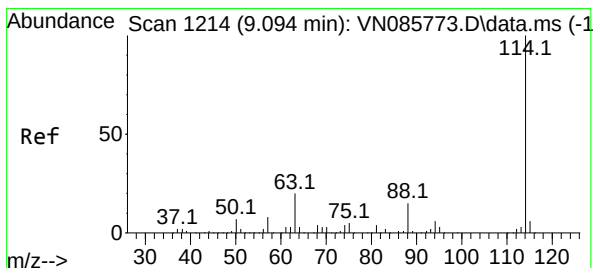
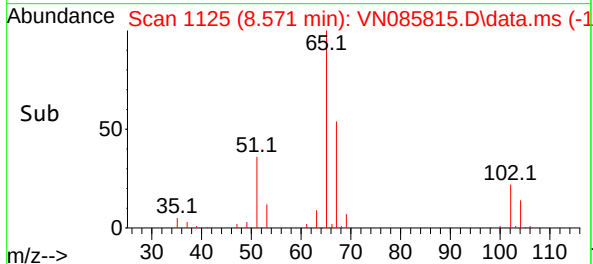
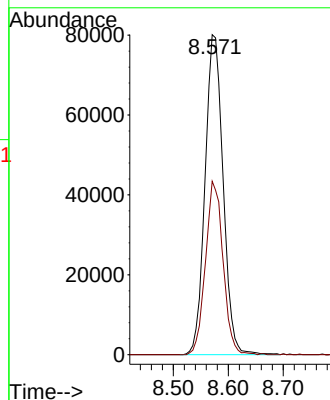
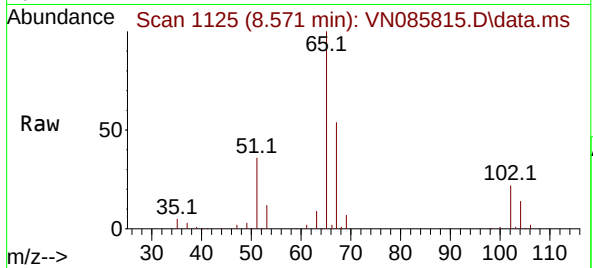
SOIL-COMP

Tgt Ion: 65 Resp: 183237

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085815.D

Acq: 21 Feb 2025 20:14

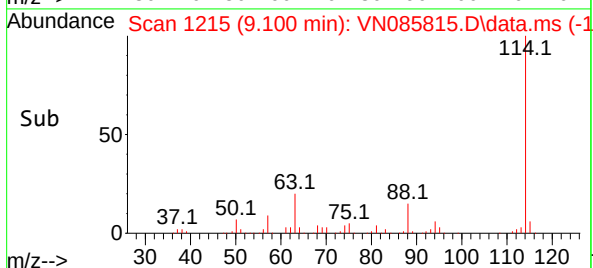
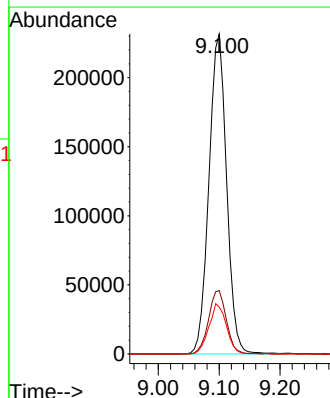
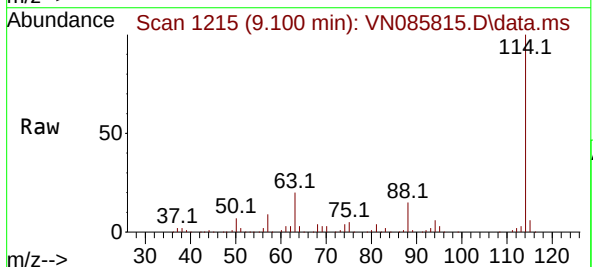
Tgt Ion: 114 Resp: 466003

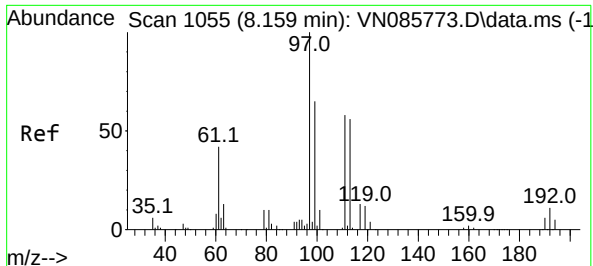
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.2

88 14.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 51.487 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085815.D

Acq: 21 Feb 2025 20:14

Instrument :

MSVOA_N

ClientSampleId :

SOIL-COMP

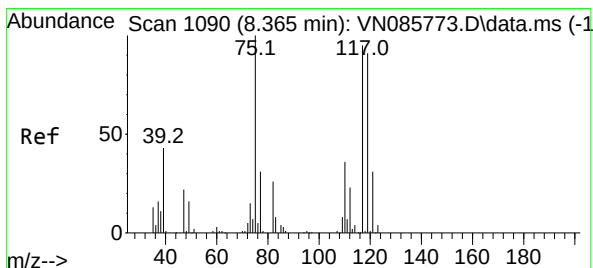
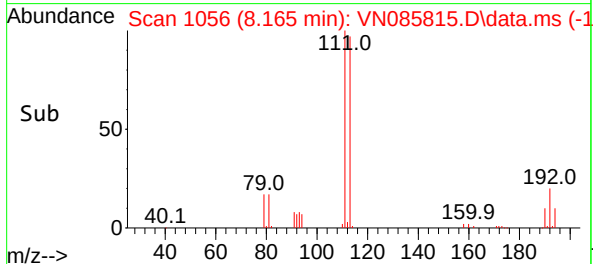
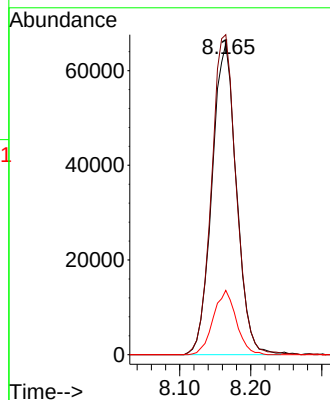
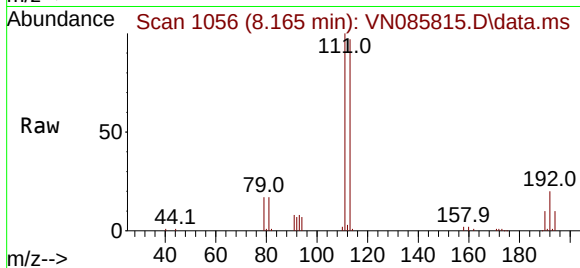
Tgt Ion:113 Resp: 157000

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.4

192 19.5 14.7 22.1



#36

1,1-Dichloropropene

Concen: 4.666 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085815.D

Acq: 21 Feb 2025 20:14

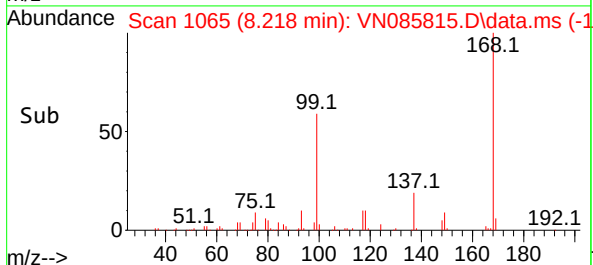
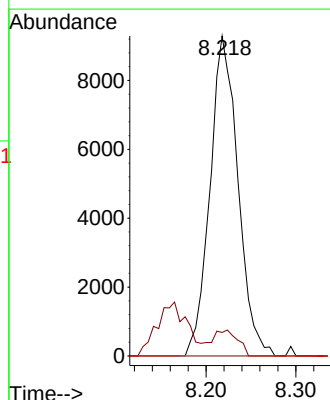
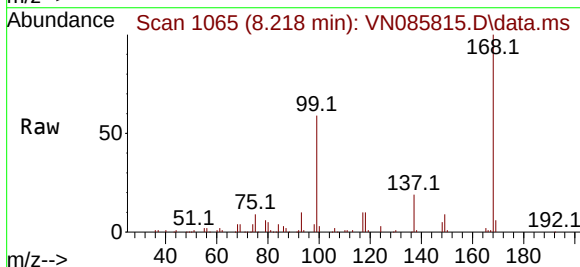
Tgt Ion: 75 Resp: 20135

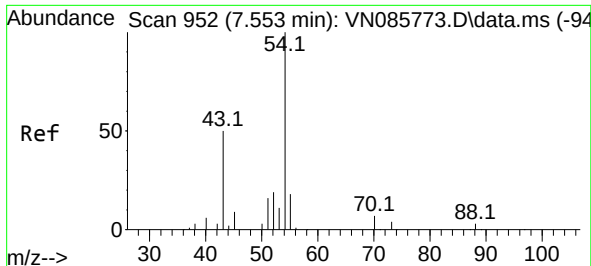
Ion Ratio Lower Upper

75 100

110 7.6 17.3 52.0#

77 0.0 24.6 37.0#

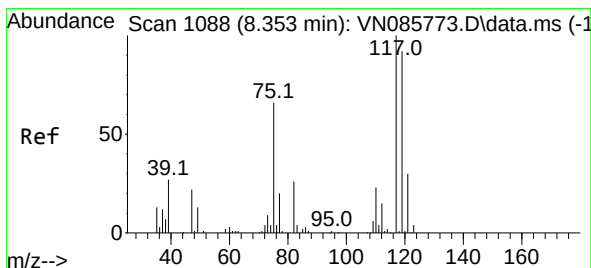
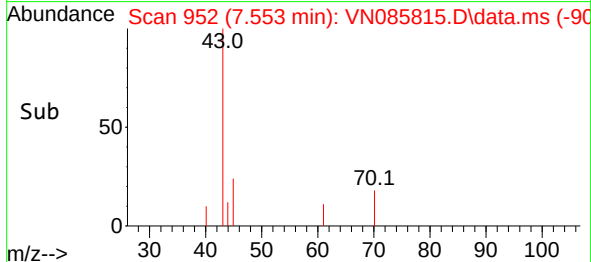
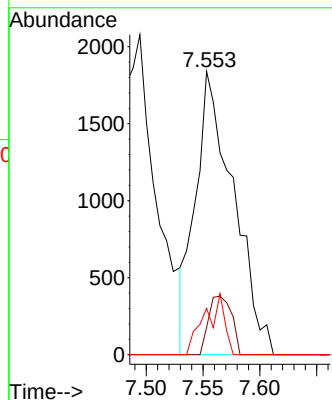
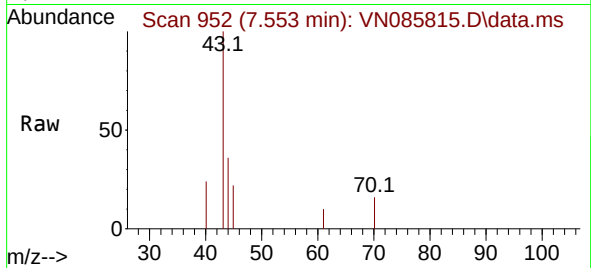




#37
Ethyl Acetate
Concen: 1.208 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

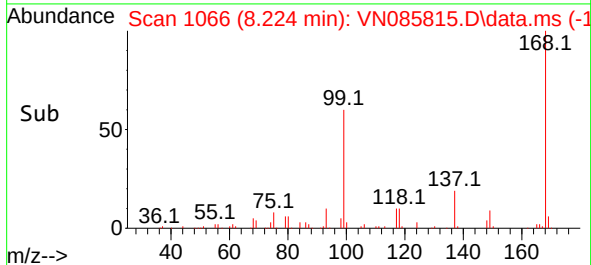
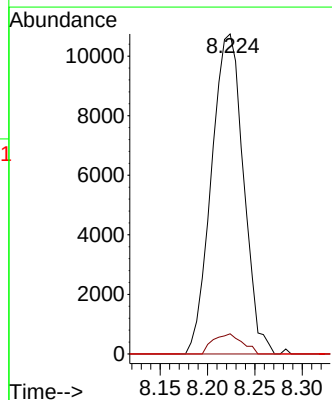
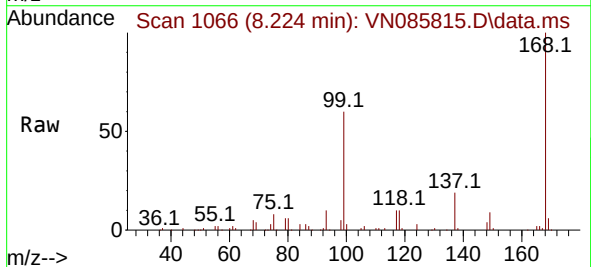
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

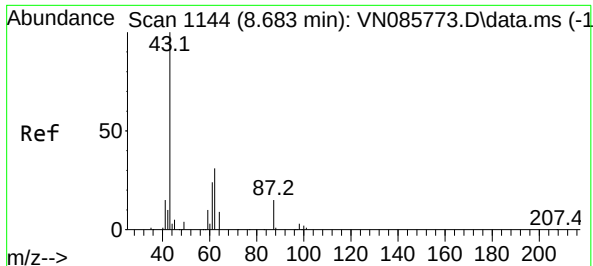
Tgt Ion:	43	Resp:	4289
Ion	Ratio	Lower	Upper
43	100		
61	12.5	12.2	18.2
70	11.3	9.5	14.3



#38
Carbon Tetrachloride
Concen: 4.926 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.129 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion:	117	Resp:	25259
Ion	Ratio	Lower	Upper
117	100		
119	6.3	73.8	110.6#
121	0.0	24.3	36.5#

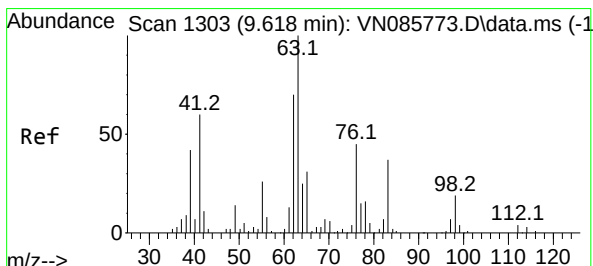
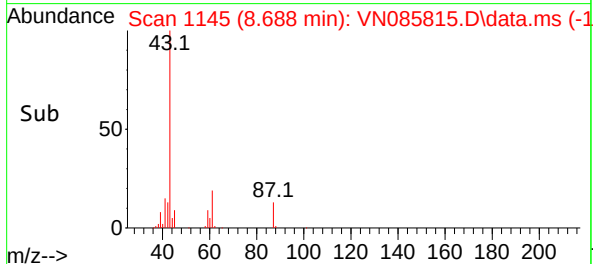
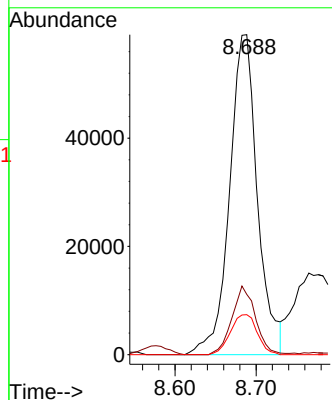
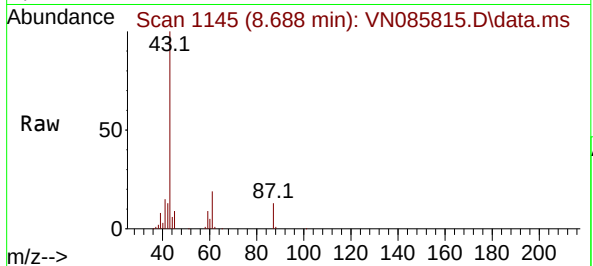




#43
Isopropyl Acetate
Concen: 22.362 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

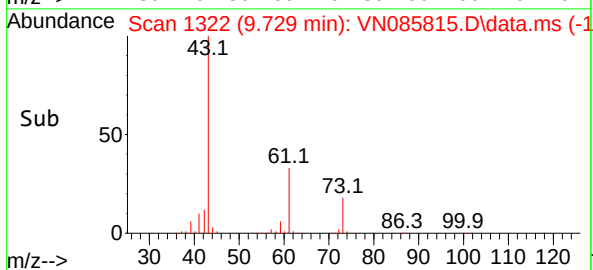
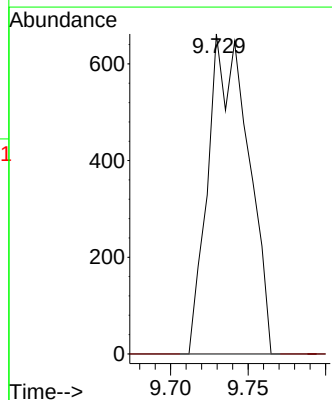
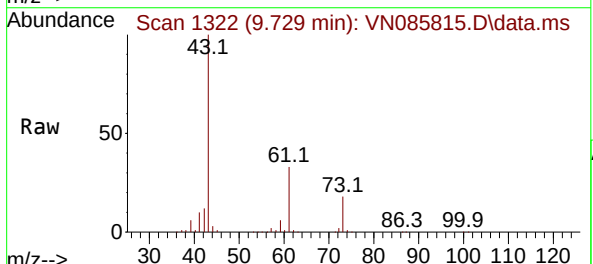
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

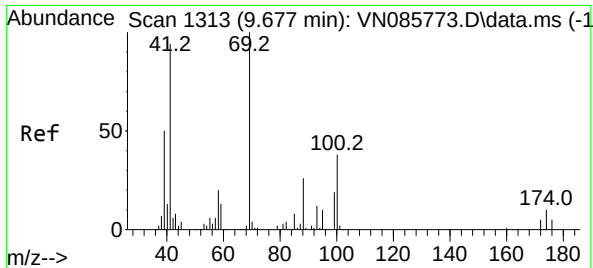
Tgt Ion: 43 Resp: 141257
Ion Ratio Lower Upper
43 100
61 18.2 22.6 34.0#
87 12.0 11.8 17.8



#45
1,2-Dichloropropane
Concen: 0.357 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.112 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 63 Resp: 1192
Ion Ratio Lower Upper
63 100
65 0.0 25.1 37.7#

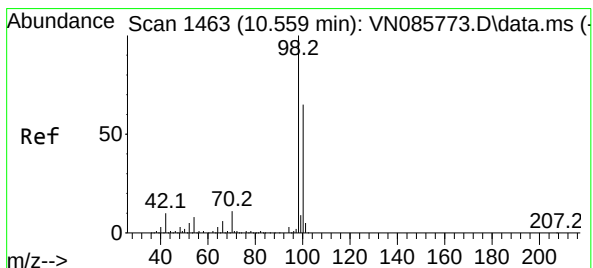
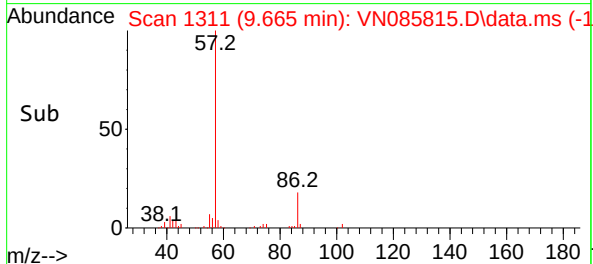
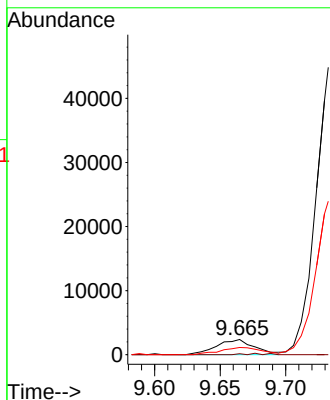
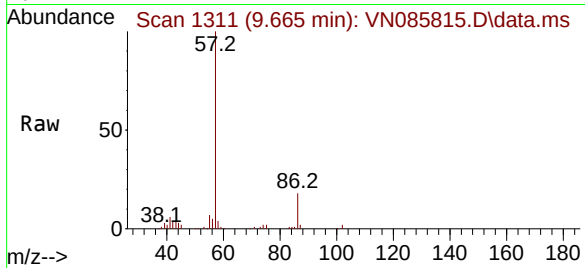




#48
Methyl methacrylate
Concen: 1.812 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

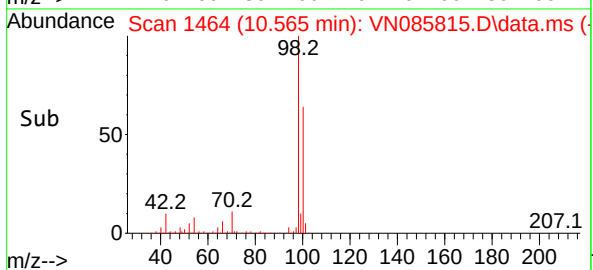
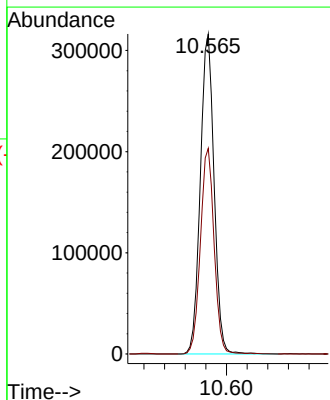
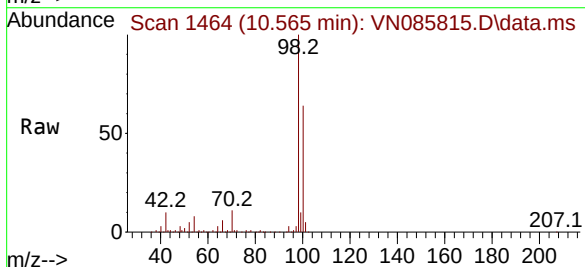
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

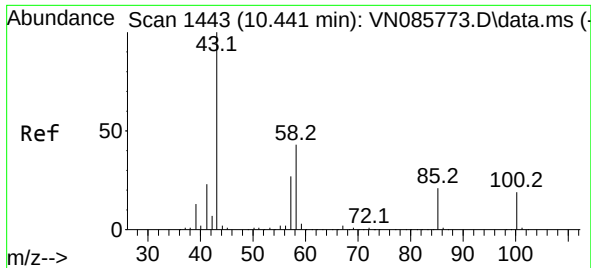
Tgt Ion: 41 Resp: 4780
Ion Ratio Lower Upper
41 100
69 1.2 76.0 114.0#
39 51.5 42.3 63.5



#50
Toluene-d8
Concen: 52.618 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 98 Resp: 583754
Ion Ratio Lower Upper
98 100
100 63.9 52.1 78.1

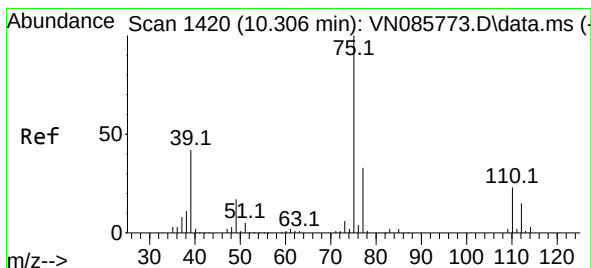
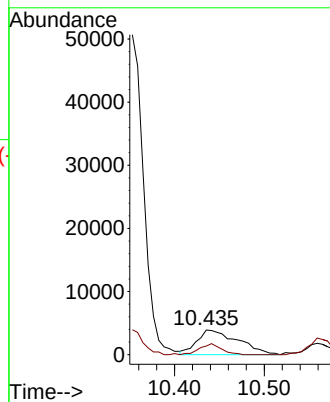
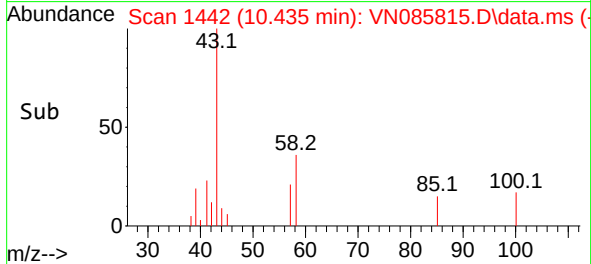
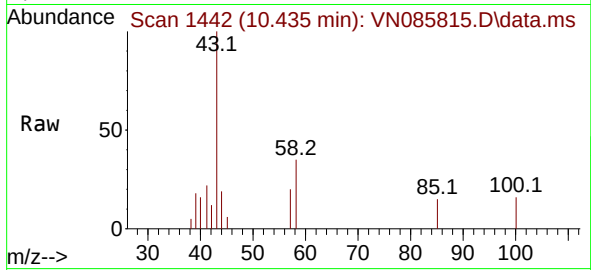




#51
4-Methyl-2-Pentanone
Concen: 3.634 ug/l
RT: 10.435 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

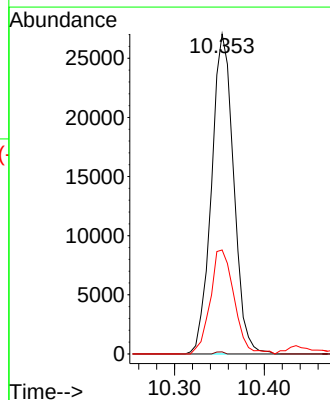
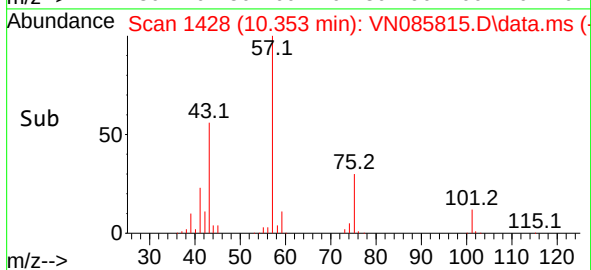
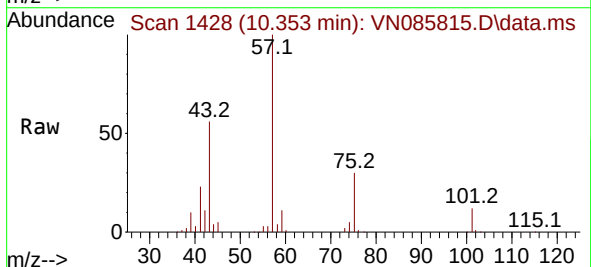
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

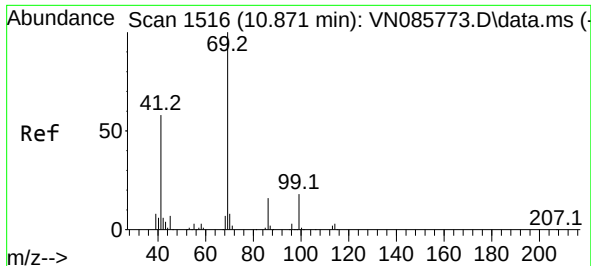
Tgt Ion: 43 Resp: 12443
Ion Ratio Lower Upper
43 100
58 24.1 34.6 52.0#



#54
cis-1,3-Dichloropropene
Concen: 9.091 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 75 Resp: 46443
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 32.5 33.4 50.0#

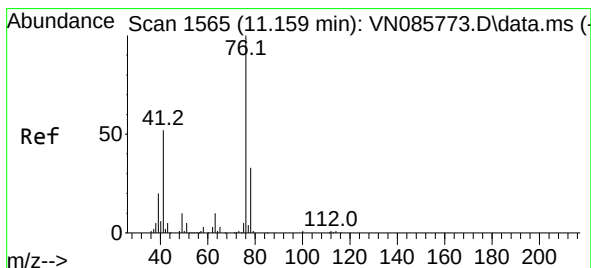
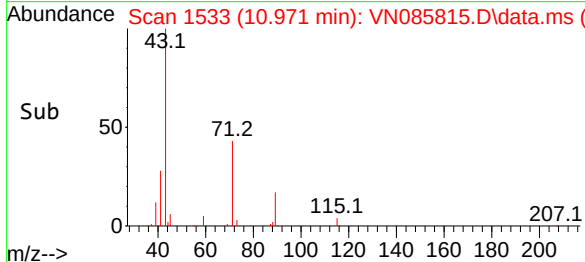
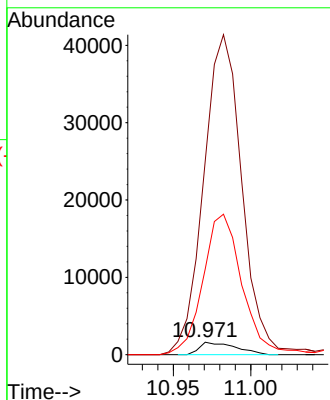
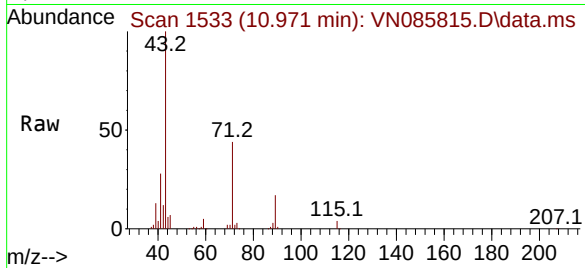




#56
Ethyl methacrylate
Concen: 1.089 ug/l
RT: 10.971 min Scan# 1533
Delta R.T. 0.100 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

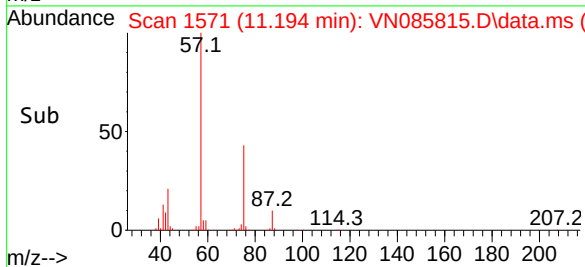
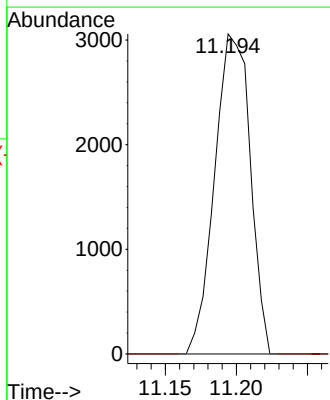
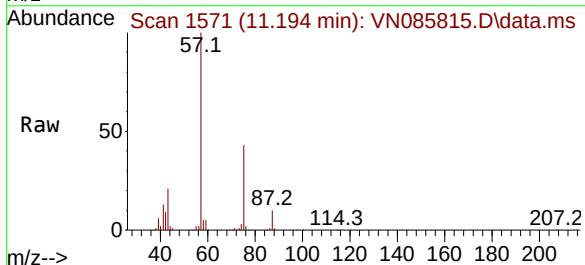
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

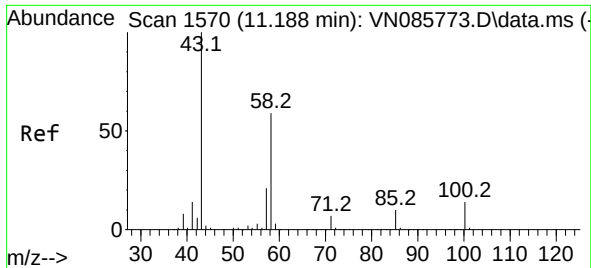
Tgt Ion: 69 Resp: 2614
Ion Ratio Lower Upper
69 100
41 2727.7 46.0 69.0#
39 1222.3 22.0 33.0#



#57
1,3-Dichloropropane
Concen: 0.989 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 76 Resp: 5322
Ion Ratio Lower Upper
76 100
78 0.0 25.9 38.9#

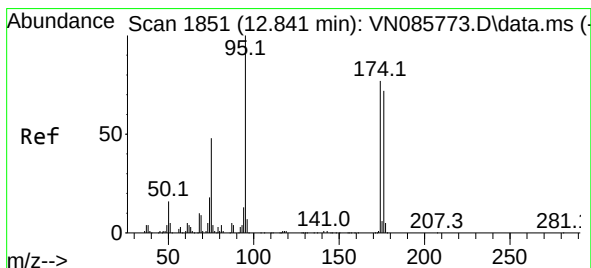
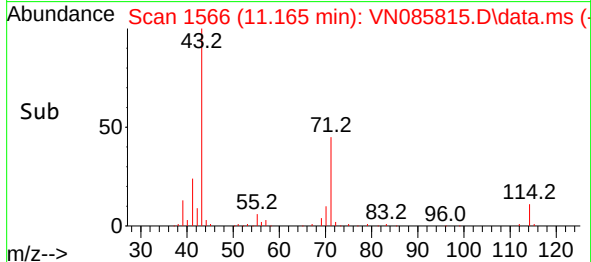
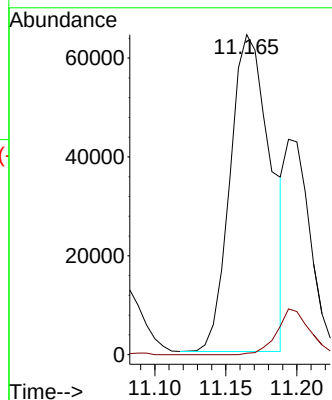
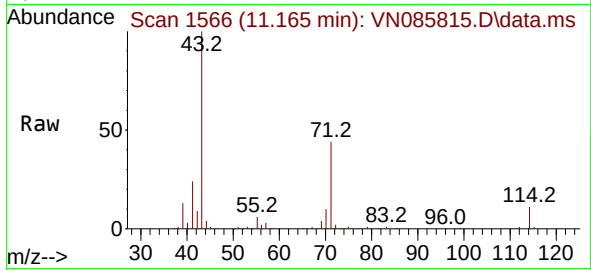




#59
2-Hexanone
Concen: 54.013 ug/l
RT: 11.165 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

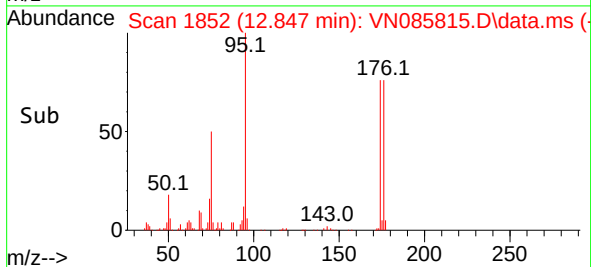
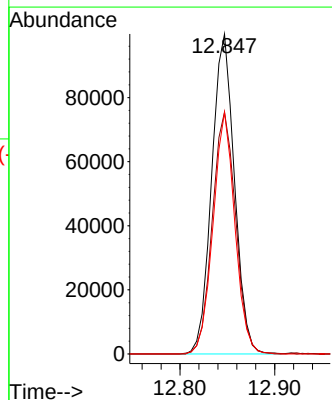
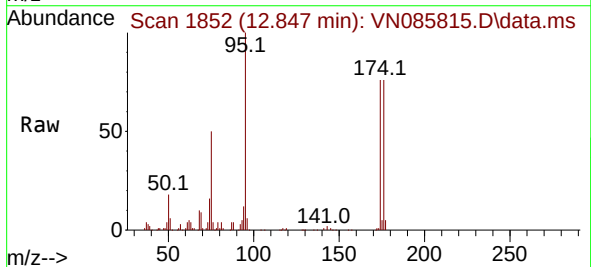
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

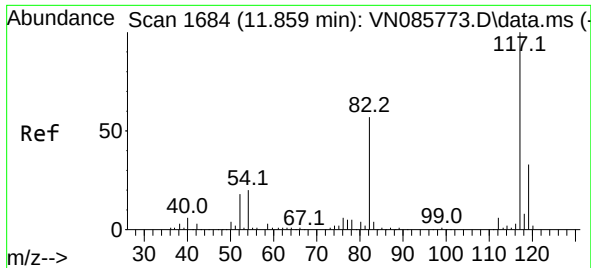
Tgt Ion: 43 Resp: 127233
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 45.440 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 95 Resp: 166099
Ion Ratio Lower Upper
95 100
174 77.8 0.0 152.4
176 72.8 0.0 146.6

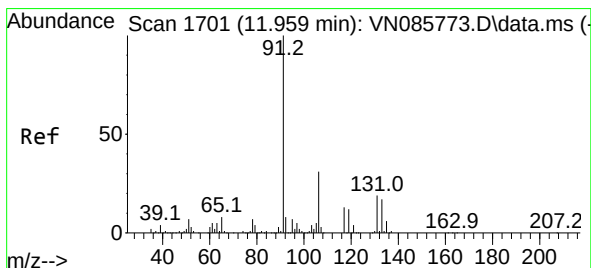
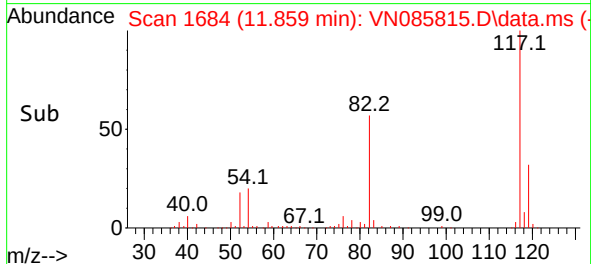
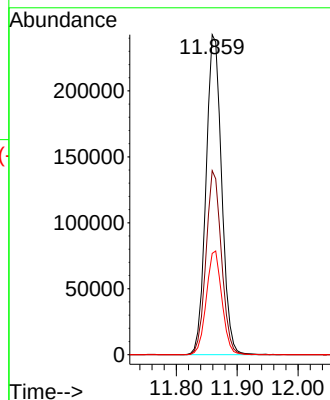
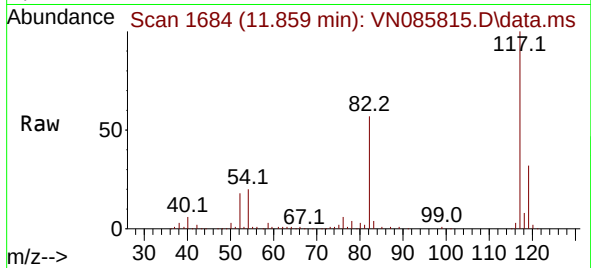




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

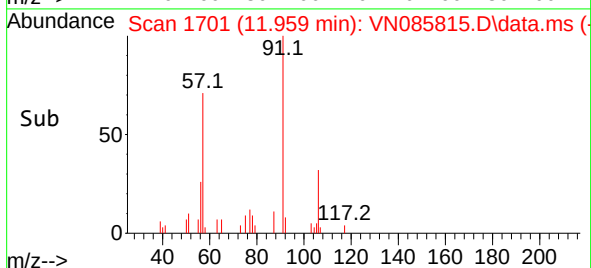
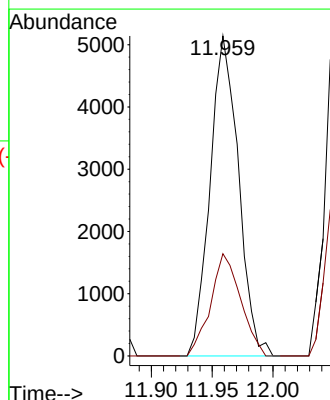
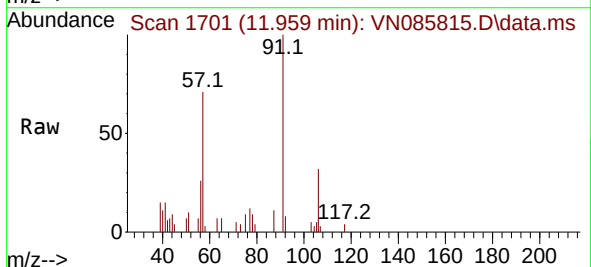
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

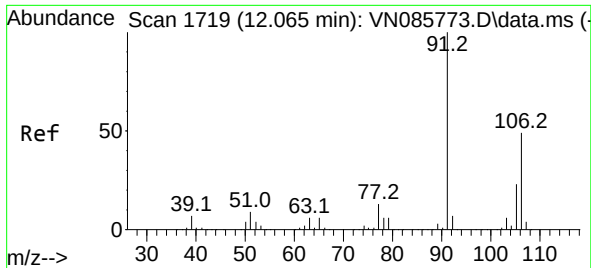
Tgt Ion:117 Resp: 432978
Ion Ratio Lower Upper
117 100
82 57.5 45.7 68.5
119 31.7 26.2 39.2



#67
Ethyl Benzene
Concen: 0.536 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 91 Resp: 8333
Ion Ratio Lower Upper
91 100
106 31.9 24.7 37.1

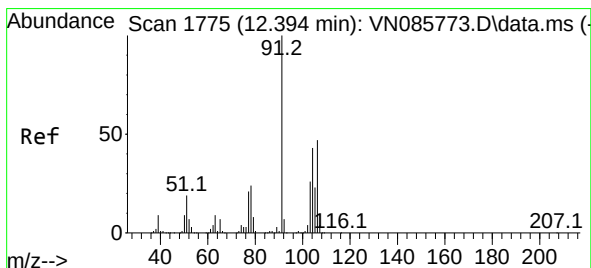
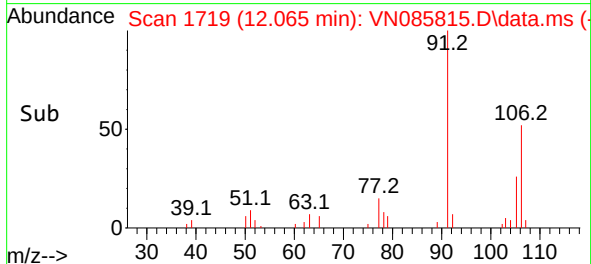
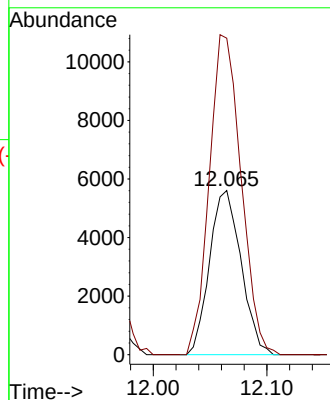
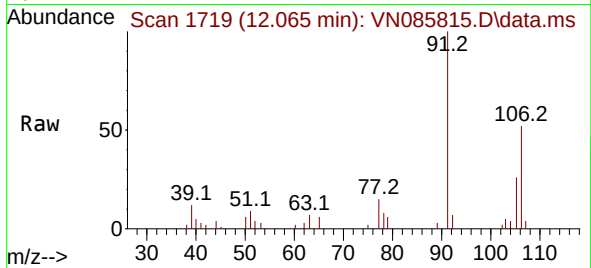




#68
m/p-Xylenes
Concen: 1.834 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

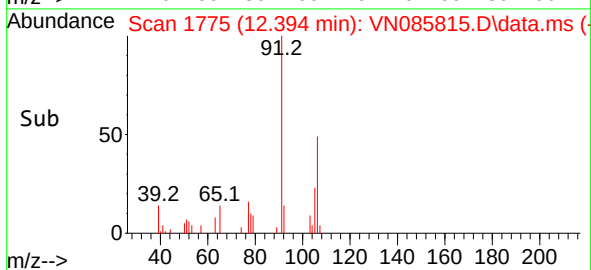
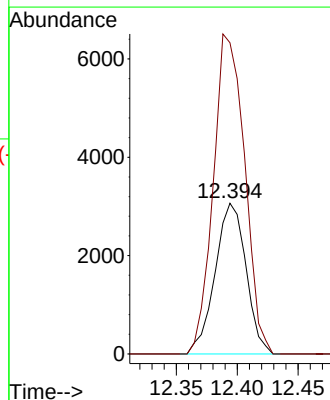
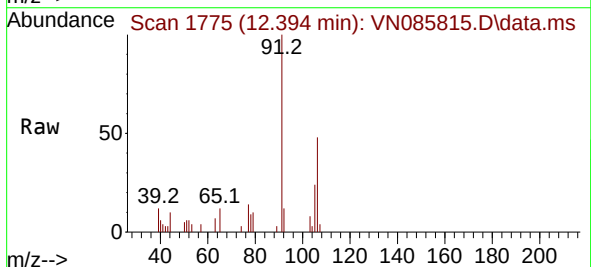
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

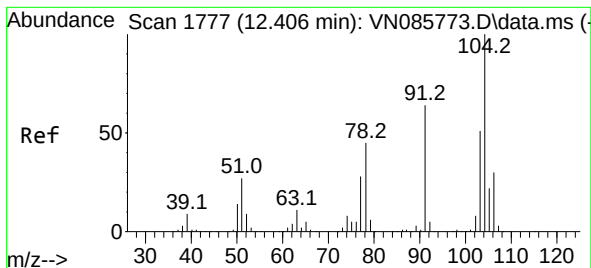
Tgt Ion:106 Resp: 10826
Ion Ratio Lower Upper
106 100
91 196.1 163.3 244.9



#69
o-Xylene
Concen: 0.965 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion:106 Resp: 5414
Ion Ratio Lower Upper
106 100
91 215.0 107.1 321.4





#70

Styrene

Concen: 0.633 ug/l

RT: 12.388 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN085815.D

Acq: 21 Feb 2025 20:14

Instrument :

MSVOA_N

ClientSampleId :

SOIL-COMP

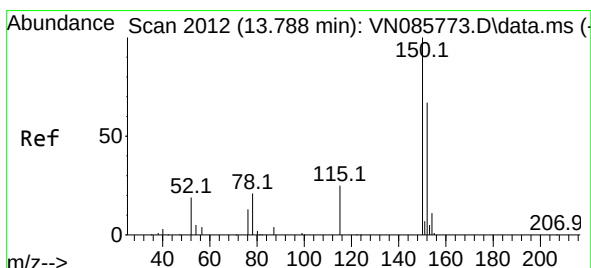
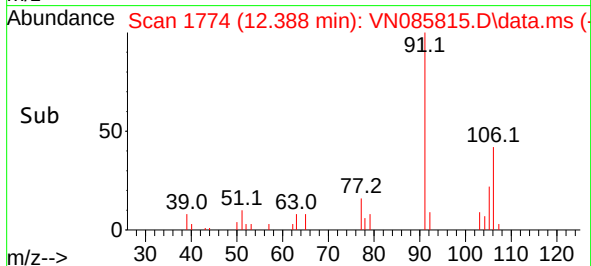
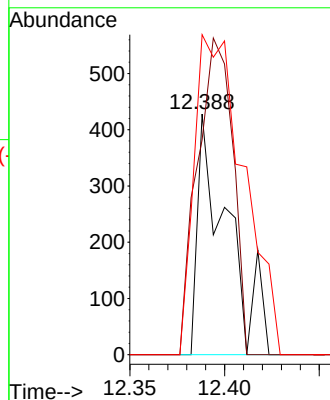
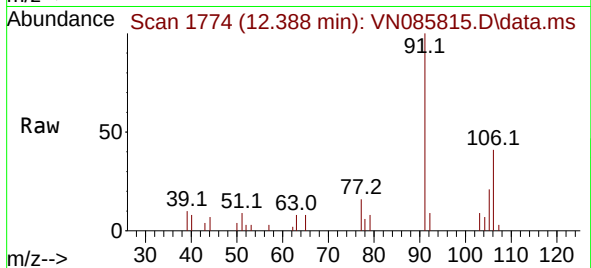
Tgt Ion:104 Resp: 470

Ion Ratio Lower Upper

104 100

78 155.3 39.0 58.6#

103 219.8 43.3 64.9#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085815.D

Acq: 21 Feb 2025 20:14

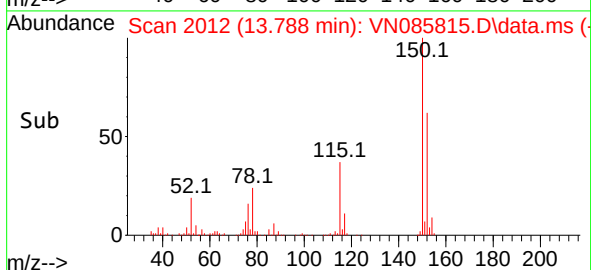
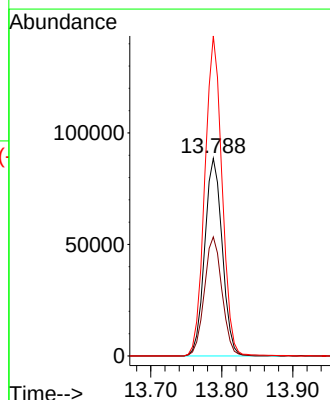
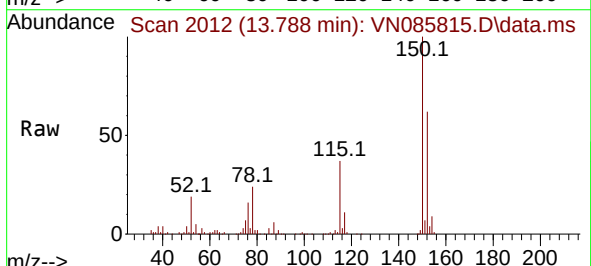
Tgt Ion:152 Resp: 152193

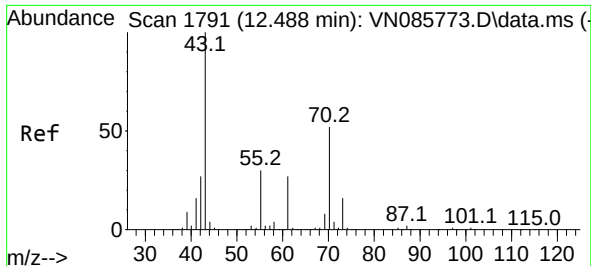
Ion Ratio Lower Upper

152 100

115 60.6 30.4 91.3

150 159.2 0.0 345.4

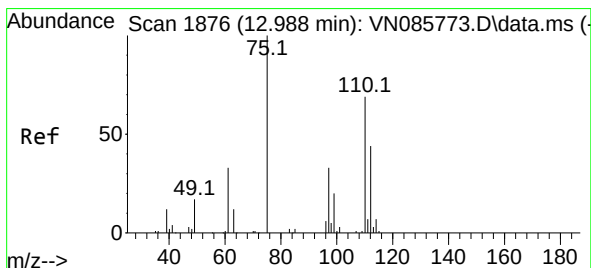
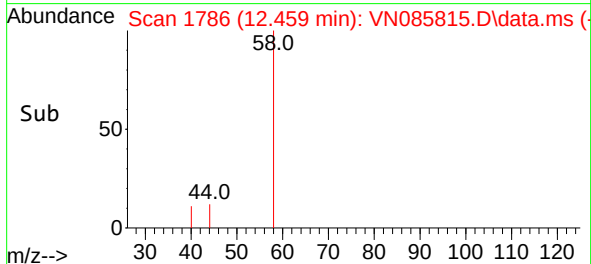
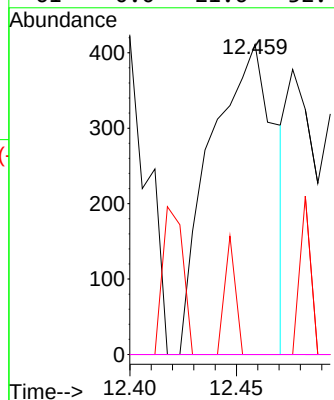
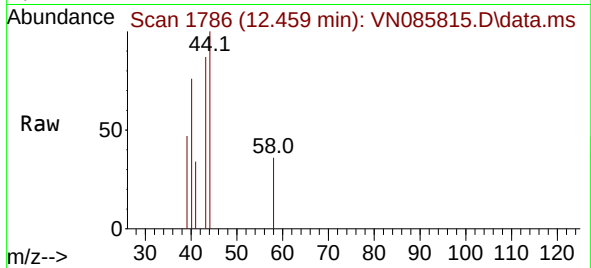




#74
N-amy1 acetate
Concen: 0.237 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

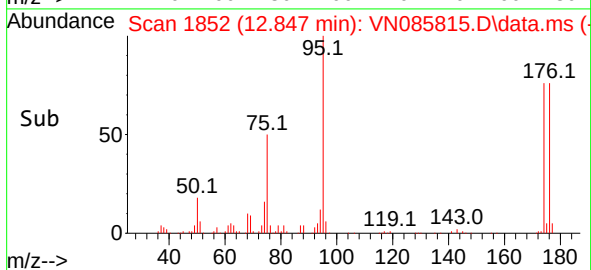
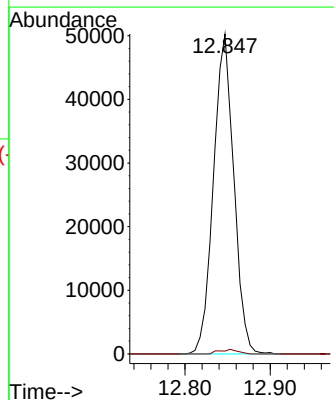
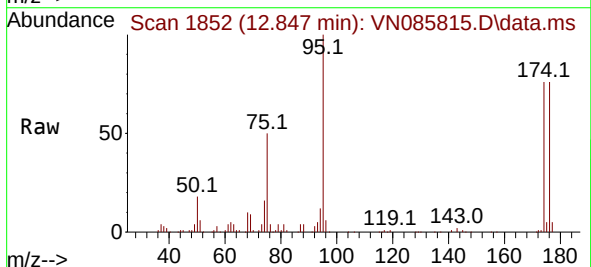
Instrument :
MSVOA_N
ClientSampleId :
SOIL-COMP

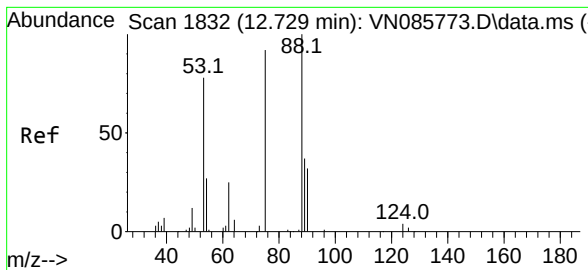
Tgt Ion: 43	Resp: 870
Ion Ratio	Lower Upper
43 100	
70 0.0	41.0 61.4#
55 6.3	24.6 36.8#
61 0.0	21.6 32.4#



#76
1,2,3-Trichloropropane
Concen: 24.675 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085815.D
Acq: 21 Feb 2025 20:14

Tgt Ion: 75	Resp:	83418	
Ion Ratio	Lower	Upper	
75	100		
77	1.3	100.0	300.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.995 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN085815.D
 Acq: 21 Feb 2025 20:14

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-COMP

Tgt Ion: 75 Resp: 83418
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.2 111.4#
 89 0.0 34.9 52.3#

