

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032122\
 Data File : VN071428.D
 Acq On : 21 Mar 2022 19:17
 Operator : JC\MD
 Sample : N1985-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VACLOT-SOIL-1

Quant Time: Mar 22 06:21:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

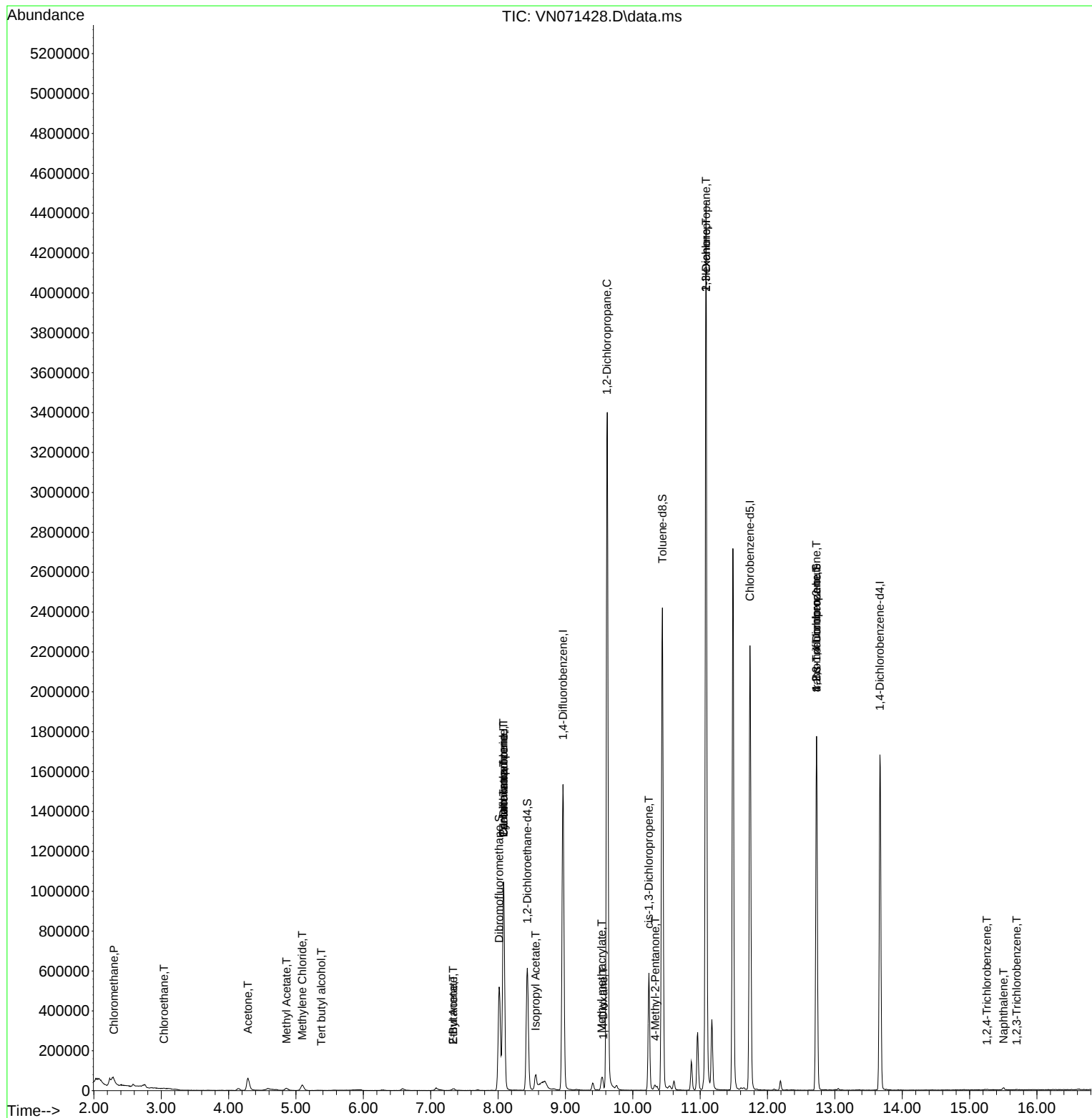
Internal Standards						
1) Pentafluorobenzene	8.081	168	806581	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1334987	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1276750	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	460889	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	510600	46.189	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	92.380%		
35) Dibromofluoromethane	8.016	113	386107	45.833	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	91.660%		
50) Toluene-d8	10.439	98	1658783	48.905	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.800%		
62) 4-Bromofluorobenzene	12.727	95	615804	53.615	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	107.240%		
Target Compounds					Qvalue	
3) Chloromethane	2.299	50	3874	0.292	ug/l #	74
5) Bromomethane	2.846	94	1091	Below Cal	#	54
6) Chloroethane	3.040	64	1434	0.219	ug/l	88
11) Tert butyl alcohol	5.375	59	532	0.245	ug/l #	71
16) Acetone	4.287	43	117096	21.770	ug/l	99
18) Methyl Acetate	4.857	43	25020	2.186	ug/l	93
20) Methylene Chloride	5.093	84	20682	2.470	ug/l #	82
25) 2-Butanone	7.334	43	17609	2.032	ug/l #	81
31) Cyclohexane	8.081	56	16902	0.957	ug/l #	14
36) 1,1-Dichloropropene	8.081	75	61675	4.569	ug/l #	49
37) Ethyl Acetate	7.334	43	17609	0.948	ug/l #	68
38) Carbon Tetrachloride	8.081	117	79800	6.112	ug/l #	16
43) Isopropyl Acetate	8.557	43	97096	3.495	ug/l #	84
45) 1,2-Dichloropropane	9.616	63	4096	0.375	ug/l #	44
48) Methyl methacrylate	9.539	41	18572	1.443	ug/l #	8
49) 1,4-Dioxane	9.563	88	57	0.255	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	31529	1.829	ug/l #	74
54) cis-1,3-Dichloropropene	10.239	75	102232	6.251	ug/l #	58
57) 1,3-Dichloropropane	11.086	76	45163	2.507	ug/l #	43
59) 2-Hexanone	11.086	43	711111	60.455	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.821	83	83	Below Cal	#	86
76) 1,2,3-Trichloropropane	12.727	75	320059	27.375	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	320059	75.069	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.257	180	629	3.068	ug/l #	88
95) Naphthalene	15.504	128	10113	5.498	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.698	180	866	2.845	ug/l #	88

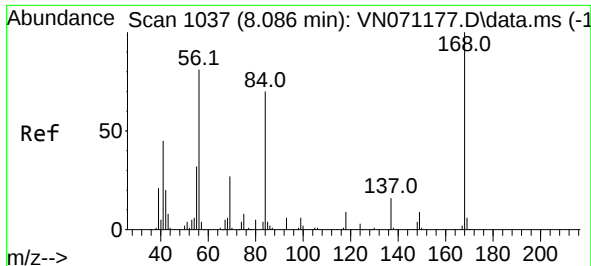
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.081 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

Instrument :

MSVOA_N

ClientSampleId :

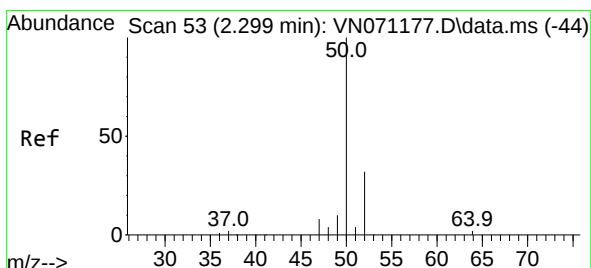
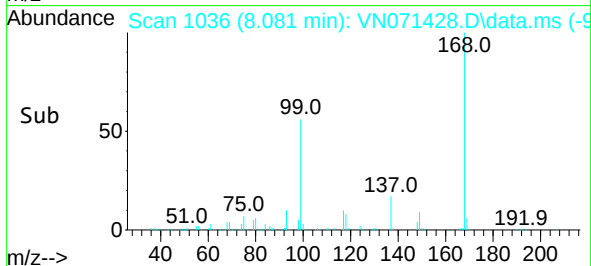
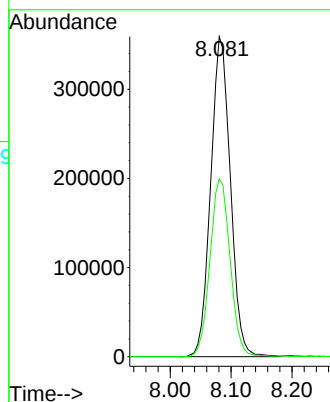
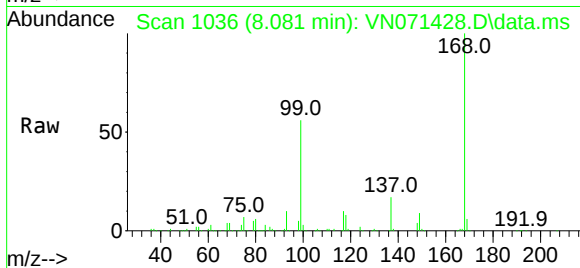
VACLOT-SOIL-1

Tgt Ion:168 Resp: 806581

Ion Ratio Lower Upper

168 100

99 55.5 41.3 61.9



#3

Chloromethane

Concen: 0.292 ug/l

RT: 2.299 min Scan# 53

Delta R.T. -0.000 min

Lab File: VN071428.D

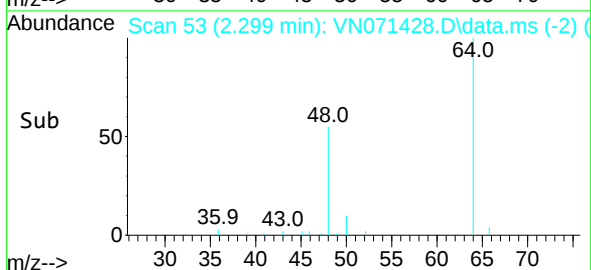
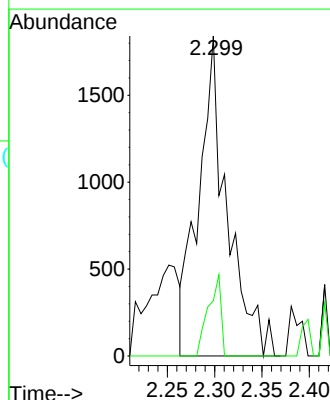
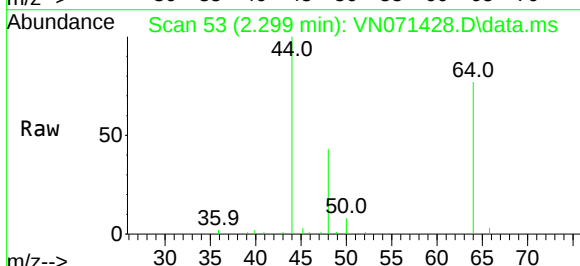
Acq: 21 Mar 2022 19:17

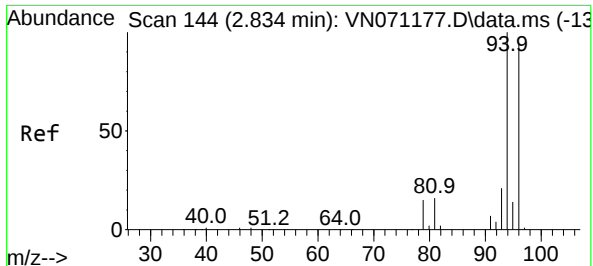
Tgt Ion: 50 Resp: 3874

Ion Ratio Lower Upper

50 100

52 17.2 25.4 38.0#

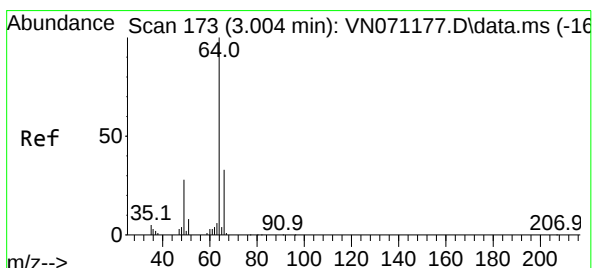
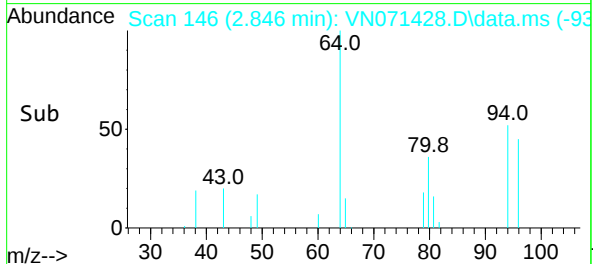
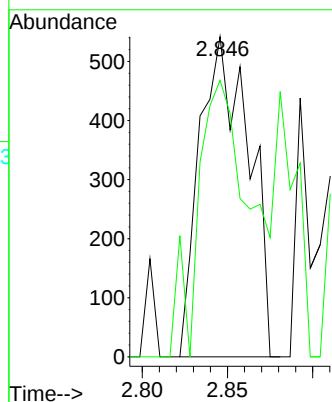
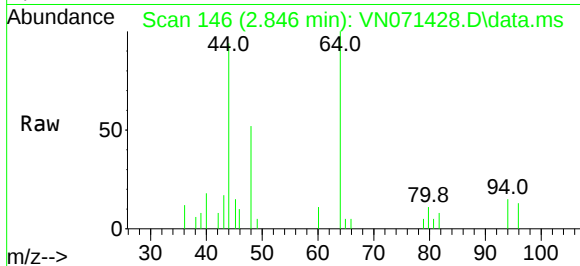




#5
Bromomethane
Concen: Below Cal
RT: 2.846 min Scan# 144
Delta R.T. 0.012 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

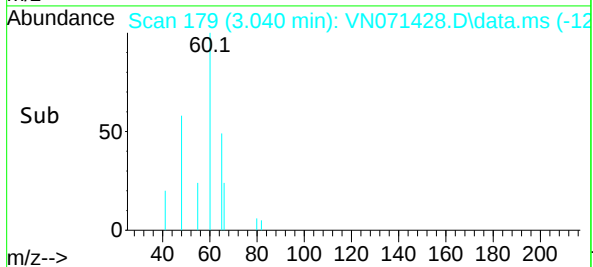
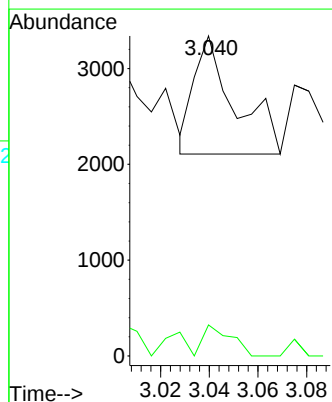
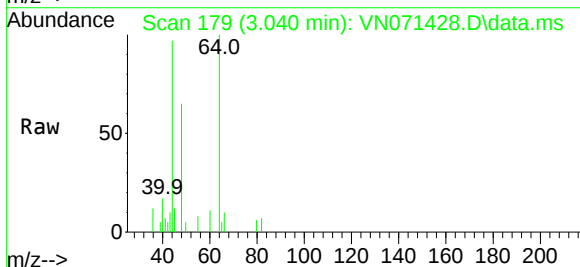
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-1

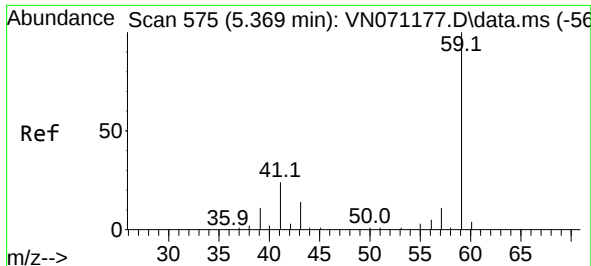
Tgt Ion: 94 Resp: 1091
Ion Ratio Lower Upper
94 100
96 48.5 73.8 110.8#



#6
Chloroethane
Concen: 0.219 ug/l
RT: 3.040 min Scan# 179
Delta R.T. 0.036 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

Tgt Ion: 64 Resp: 1434
Ion Ratio Lower Upper
64 100
66 26.4 26.3 39.5

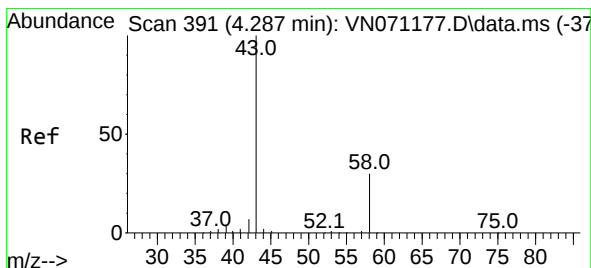
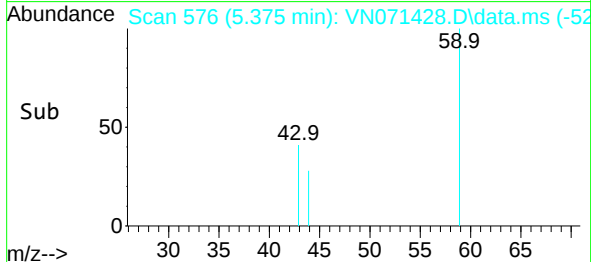
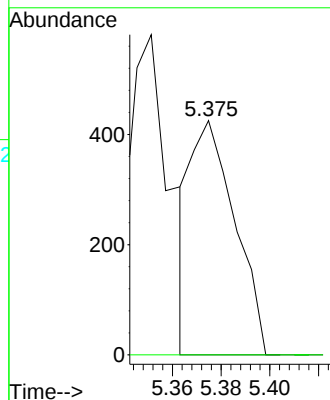
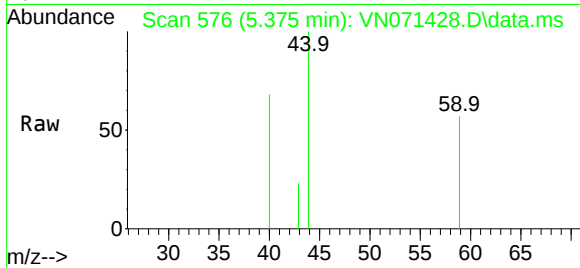




#11
Tert butyl alcohol
Concen: 0.245 ug/l
RT: 5.375 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

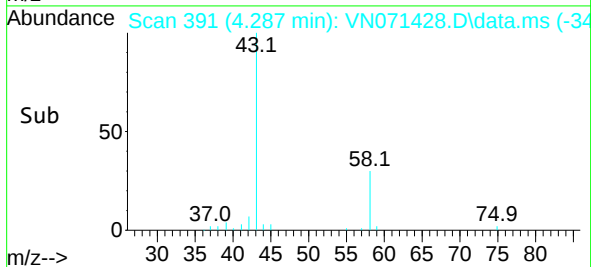
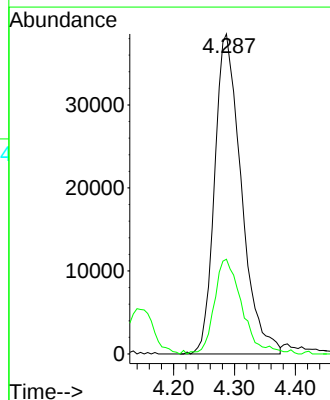
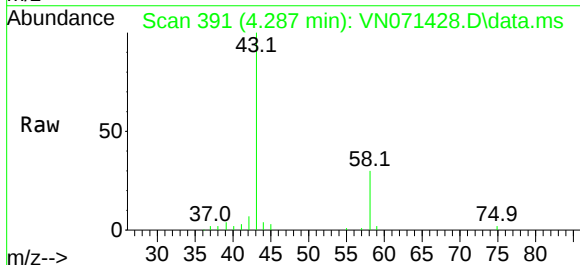
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-1

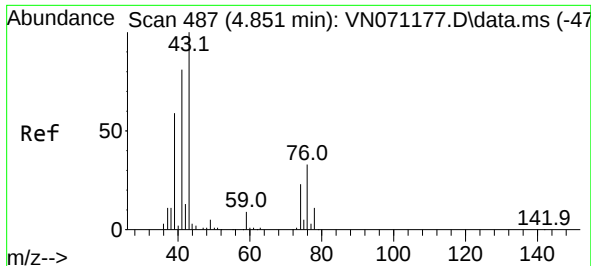
Tgt Ion: 59 Resp: 532
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#16
Acetone
Concen: 21.770 ug/l
RT: 4.287 min Scan# 391
Delta R.T. -0.000 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

Tgt Ion: 43 Resp: 117096
Ion Ratio Lower Upper
43 100
58 29.6 23.1 34.7

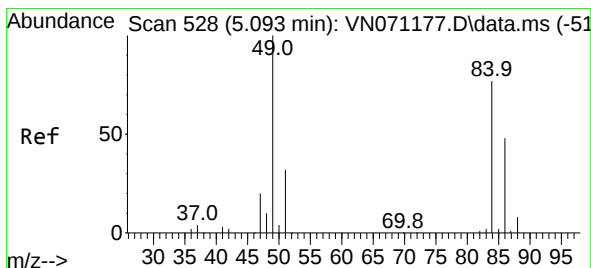
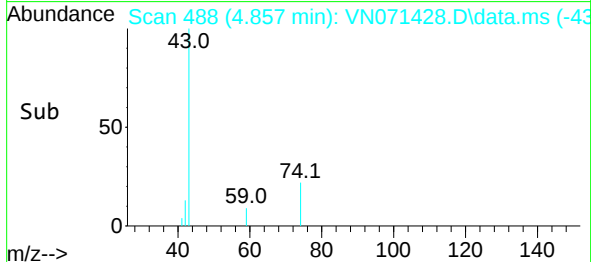
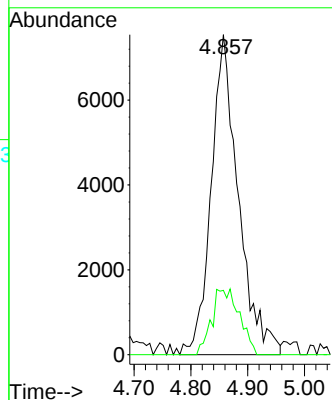
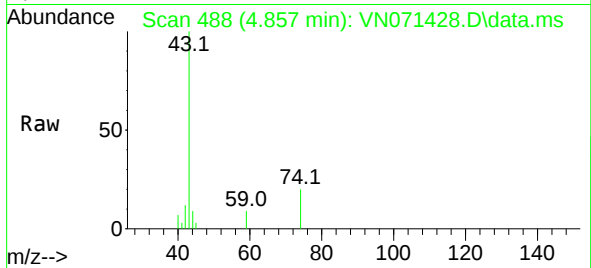




#18
Methyl Acetate
Concen: 2.186 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.006 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

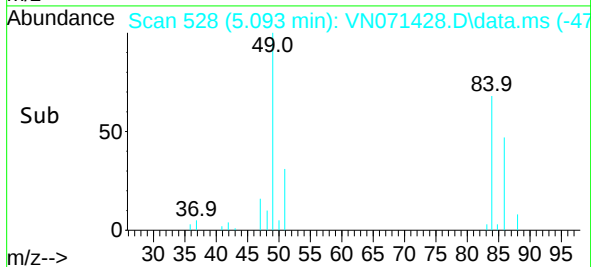
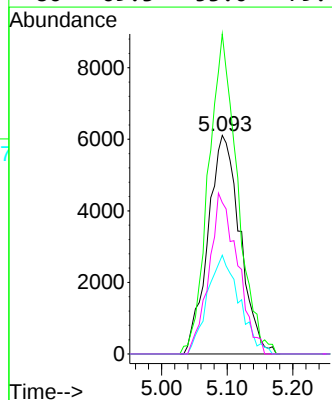
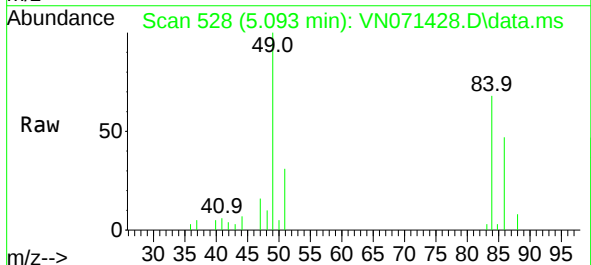
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-1

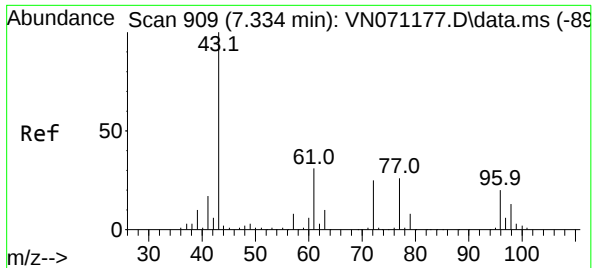
Tgt Ion: 43 Resp: 25020
Ion Ratio Lower Upper
43 100
74 21.0 19.4 29.2



#20
Methylene Chloride
Concen: 2.470 ug/l
RT: 5.093 min Scan# 528
Delta R.T. -0.000 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

Tgt Ion: 84 Resp: 20682
Ion Ratio Lower Upper
84 100
49 146.4 93.5 140.3#
51 45.2 29.4 44.2#
86 69.3 53.0 79.4

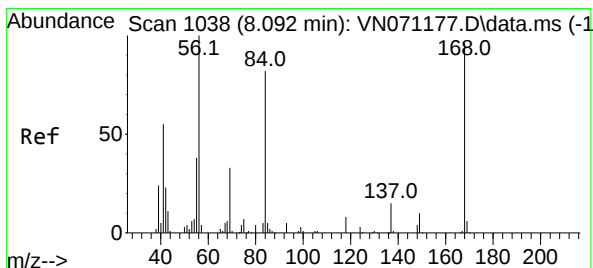
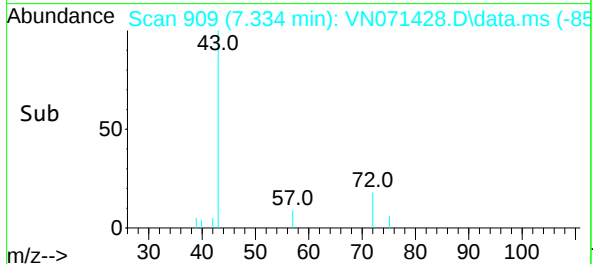
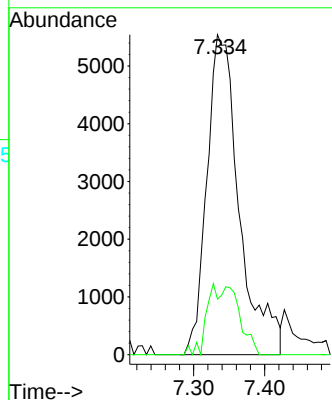
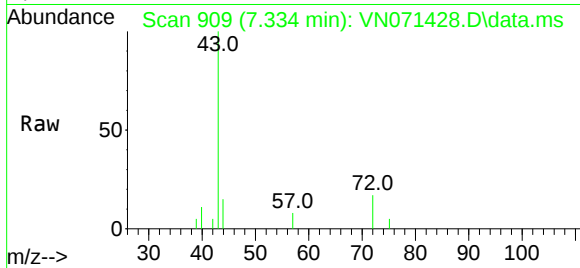




#25
2-Butanone
Concen: 2.032 ug/l
RT: 7.334 min Scan# 909
Delta R.T. -0.000 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

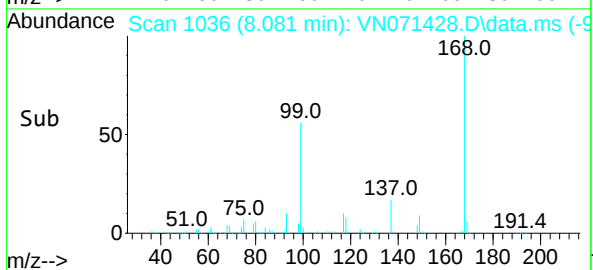
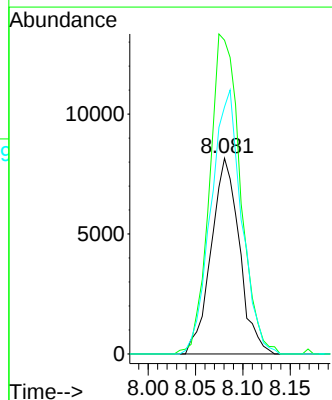
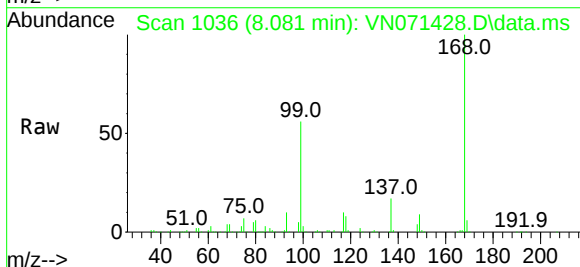
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ClientSampleId :
VACLOT-SOIL-1

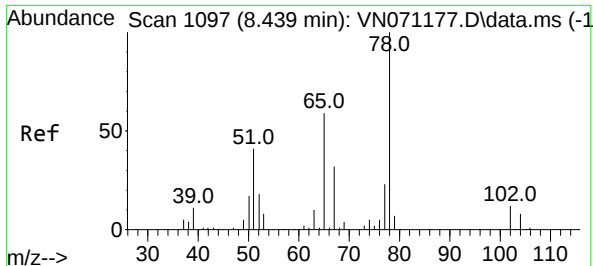
Tgt Ion: 43 Resp: 17609
Ion Ratio Lower Upper
43 100
72 17.4 21.7 32.5#



#31
Cyclohexane
Concen: 0.957 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.012 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

Tgt Ion: 56 Resp: 16902
Ion Ratio Lower Upper
56 100
69 160.3 27.1 40.7#
84 126.3 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 46.189 ug/l

RT: 8.433 min Scan# 1109

Delta R.T. -0.006 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

Instrument :

MSVOA_N

ClientSampleId :

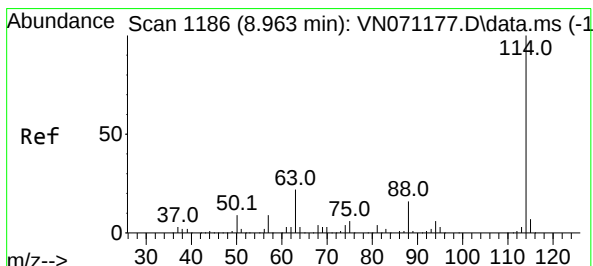
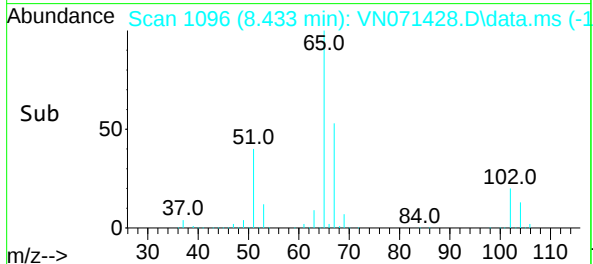
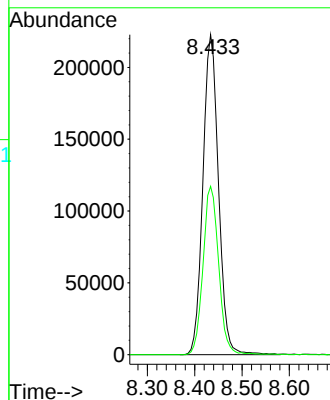
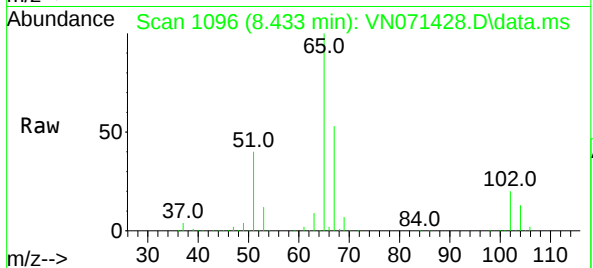
VACLOT-SOIL-1

Tgt Ion: 65 Resp: 510600

Ion Ratio Lower Upper

65 100

67 52.8 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

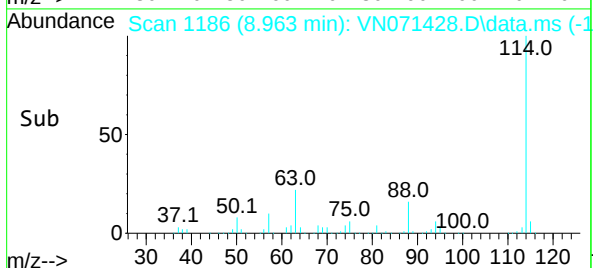
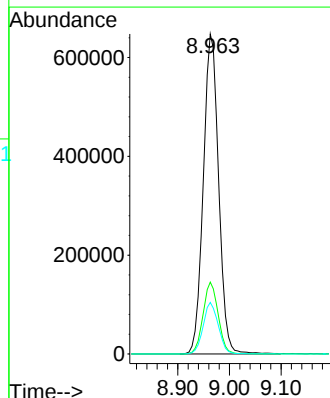
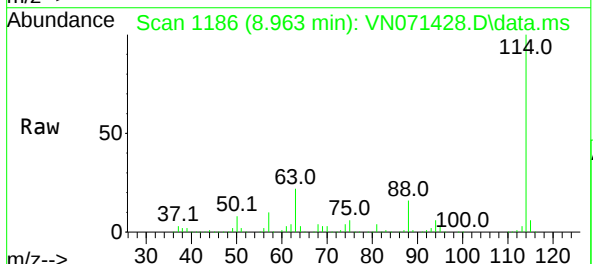
Tgt Ion: 114 Resp: 1334987

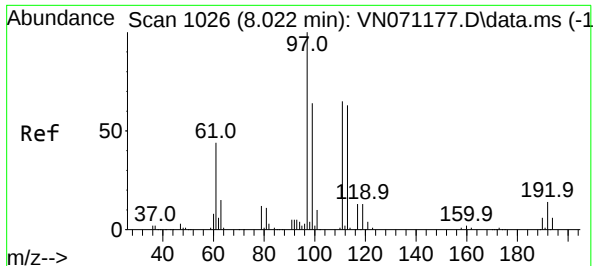
Ion Ratio Lower Upper

114 100

63 22.4 0.0 37.8

88 16.1 0.0 27.4





#35

Dibromofluoromethane

Concen: 45.833 ug/l

RT: 8.016 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

Instrument :

MSVOA_N

ClientSampleId :

VACLOT-SOIL-1

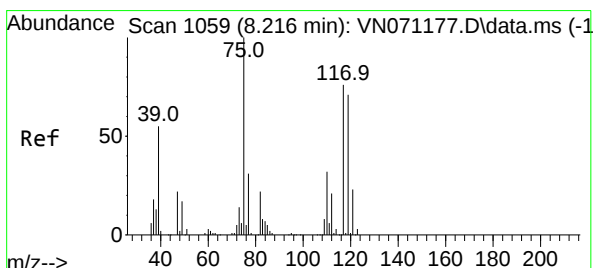
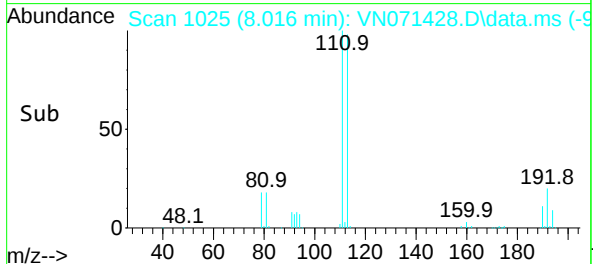
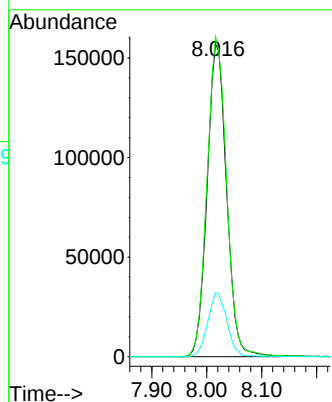
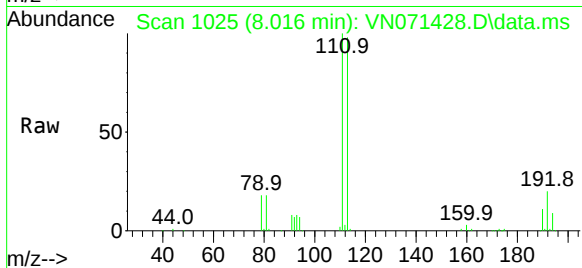
Tgt Ion:113 Resp: 386107

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

192 20.1 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.569 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

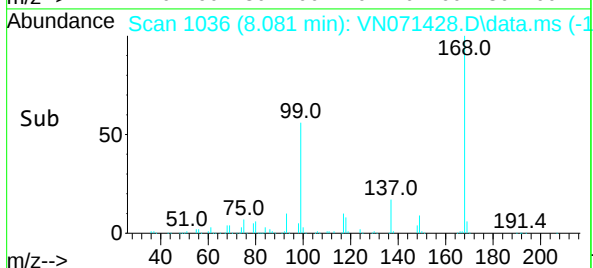
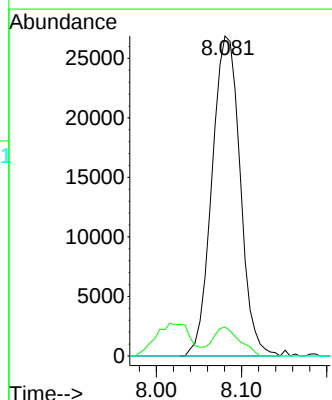
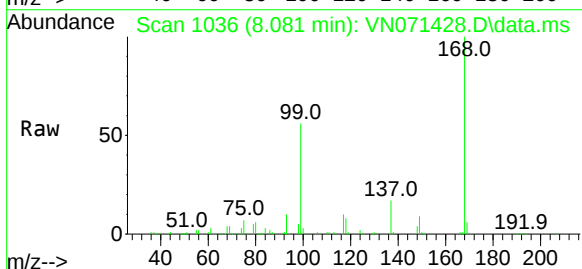
Tgt Ion: 75 Resp: 61675

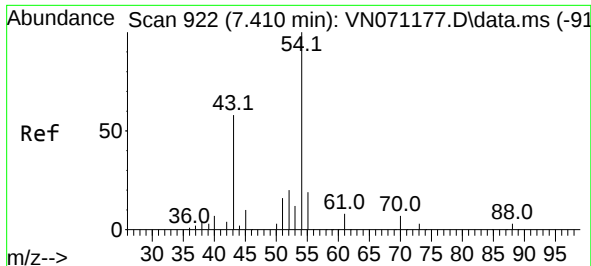
Ion Ratio Lower Upper

75 100

110 8.8 18.4 55.2#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.948 ug/l

RT: 7.334 min Scan# 90

Delta R.T. -0.076 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

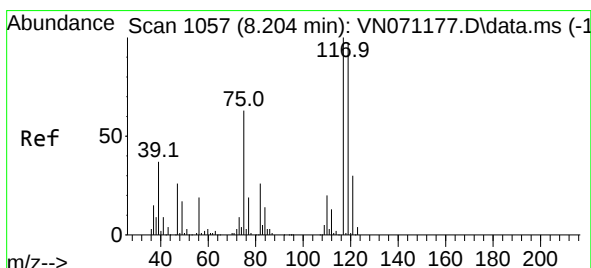
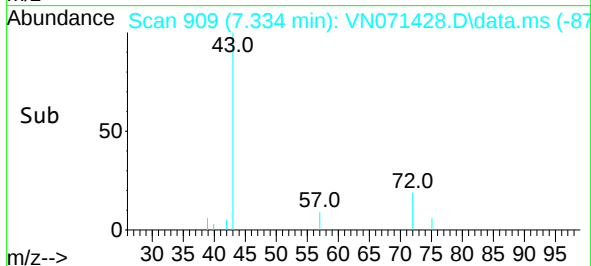
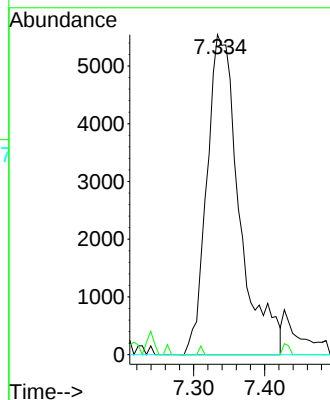
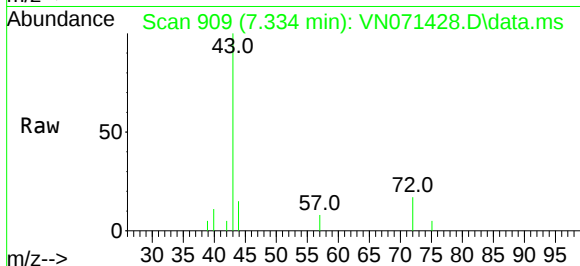
Instrument :

MSVOA_N

ClientSampleId :

VACLOT-SOIL-1

Tgt Ion:	43	Resp:	17609
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.0	7.9	11.9#



#38

Carbon Tetrachloride

Concen: 6.112 ug/l

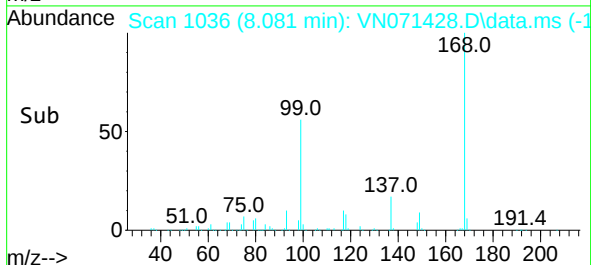
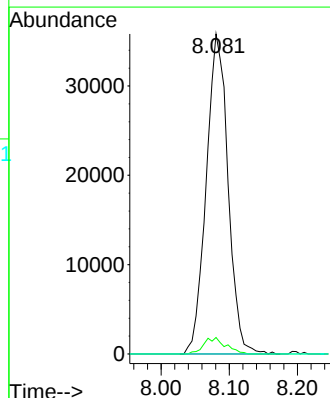
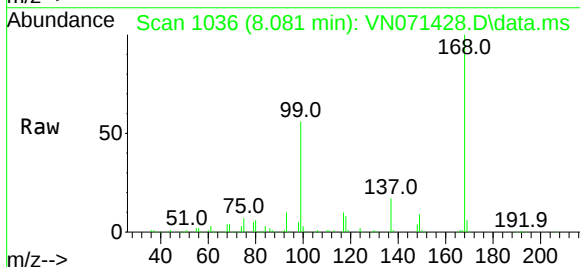
RT: 8.081 min Scan# 1036

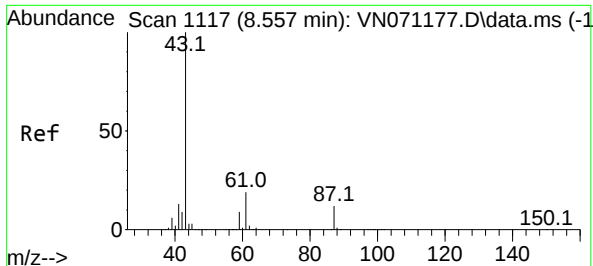
Delta R.T. -0.124 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

Tgt Ion:	117	Resp:	79800
Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.1	114.1#
121	0.0	24.2	36.2#

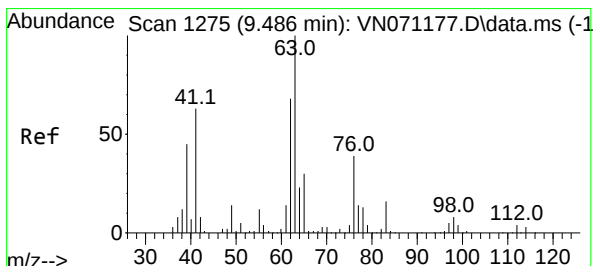
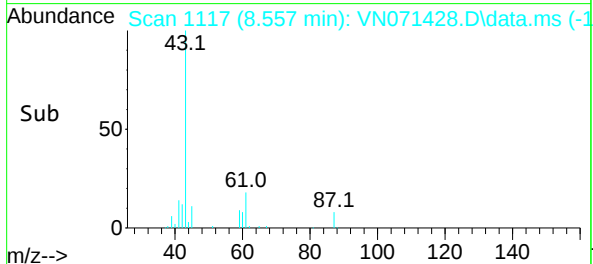
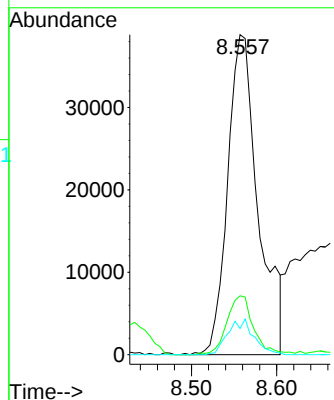
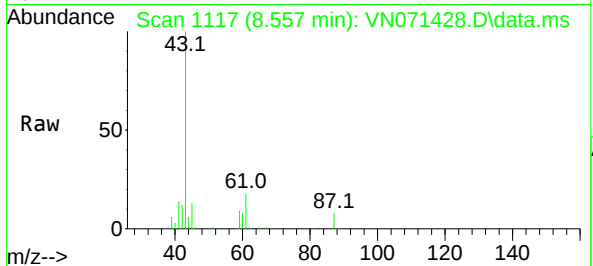




#43
Isopropyl Acetate
Concen: 3.495 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

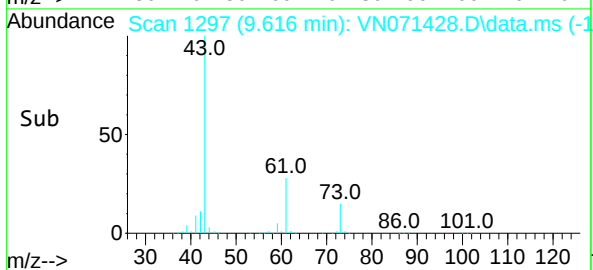
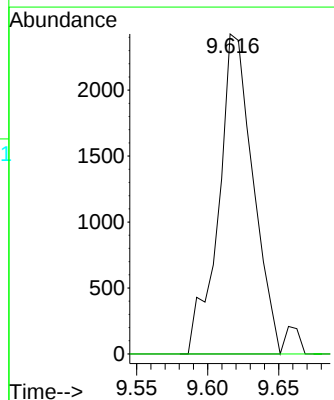
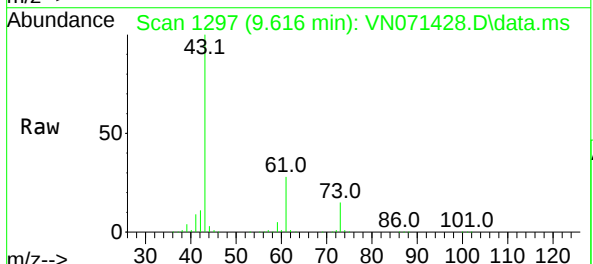
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-1

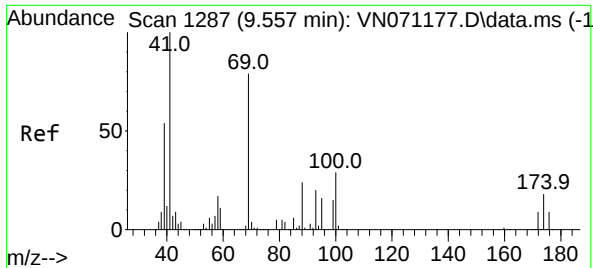
Tgt Ion: 43 Resp: 97096
Ion Ratio Lower Upper
43 100
61 16.1 20.4 30.6#
87 9.4 11.2 16.8#



#45
1,2-Dichloropropane
Concen: 0.375 ug/l
RT: 9.616 min Scan# 1297
Delta R.T. 0.130 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

Tgt Ion: 63 Resp: 4096
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

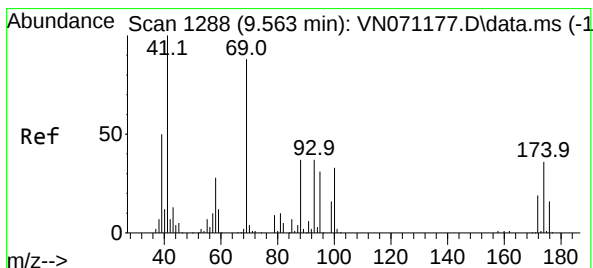
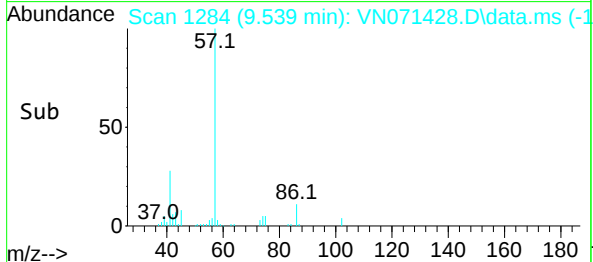
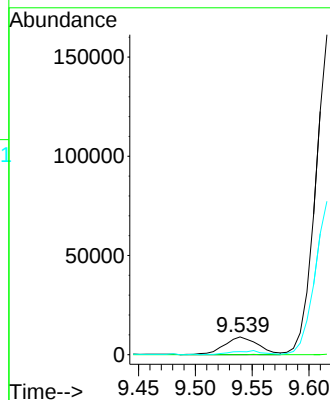
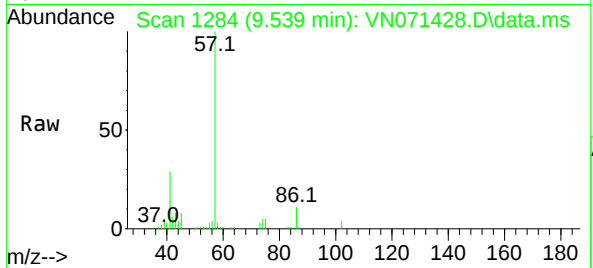




#48
Methyl methacrylate
Concen: 1.443 ug/l
RT: 9.539 min Scan# 1284
Delta R.T. -0.018 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

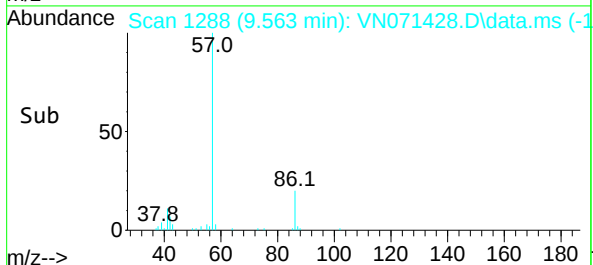
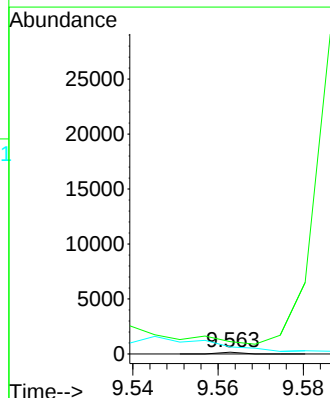
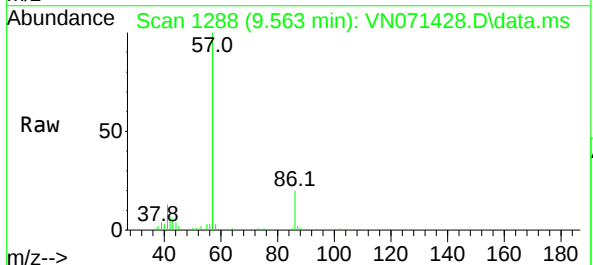
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-1

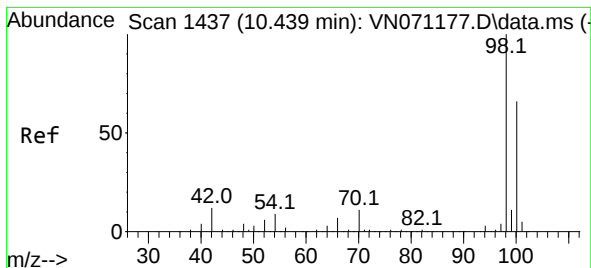
Tgt Ion: 41 Resp: 18572
Ion Ratio Lower Upper
41 100
69 0.3 72.4 108.6#
39 0.0 58.4 87.6#



#49
1,4-Dioxane
Concen: 0.255 ug/l
RT: 9.563 min Scan# 1288
Delta R.T. -0.000 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

Tgt Ion: 88 Resp: 57
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 5550.9 50.6 75.8#





#50

Toluene-d8

Concen: 48.905 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

Instrument :

MSVOA_N

ClientSampleId :

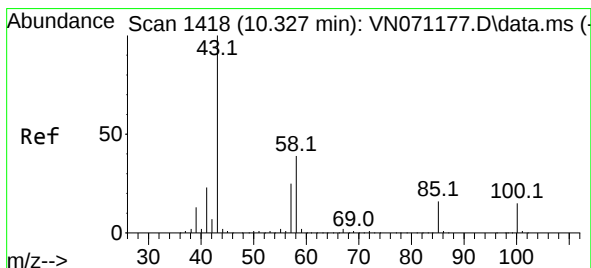
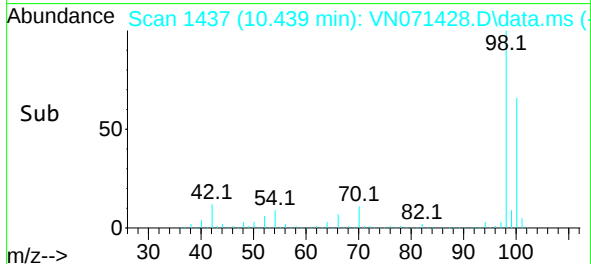
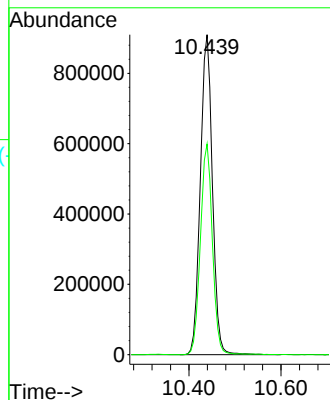
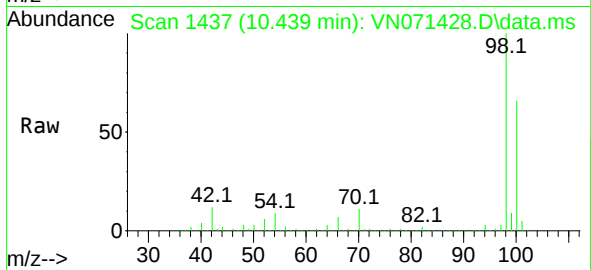
VACLOT-SOIL-1

Tgt Ion: 98 Resp: 1658783

Ion Ratio Lower Upper

98 100

100 65.7 50.4 75.6



#51

4-Methyl-2-Pentanone

Concen: 1.829 ug/l

RT: 10.333 min Scan# 1419

Delta R.T. 0.006 min

Lab File: VN071428.D

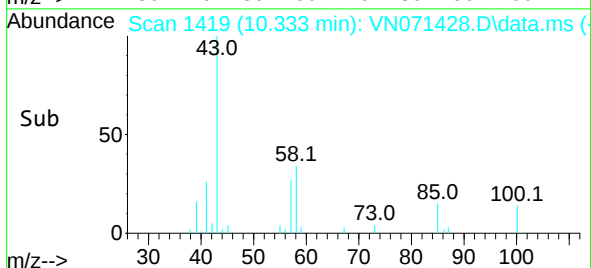
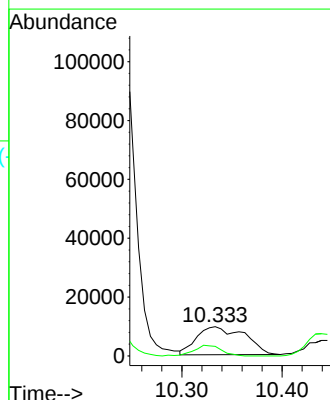
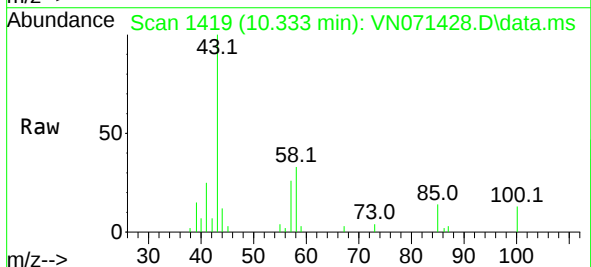
Acq: 21 Mar 2022 19:17

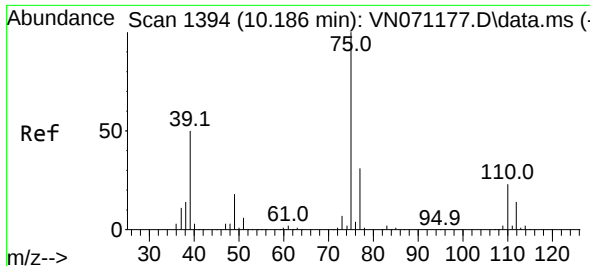
Tgt Ion: 43 Resp: 31529

Ion Ratio Lower Upper

43 100

58 22.0 30.4 45.6#

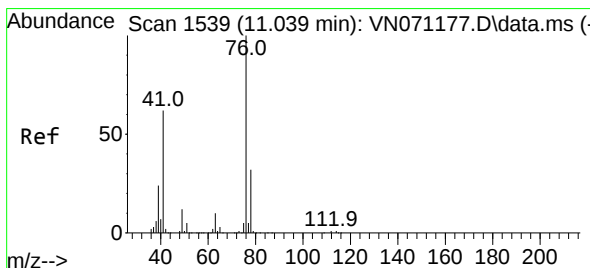
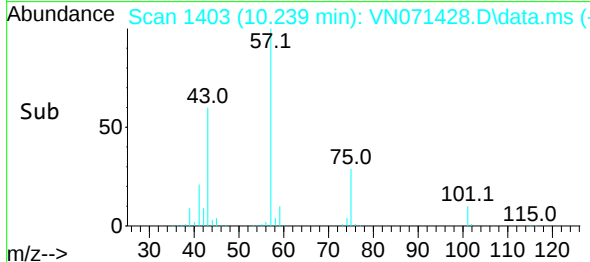
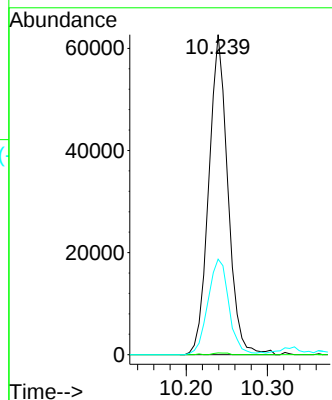
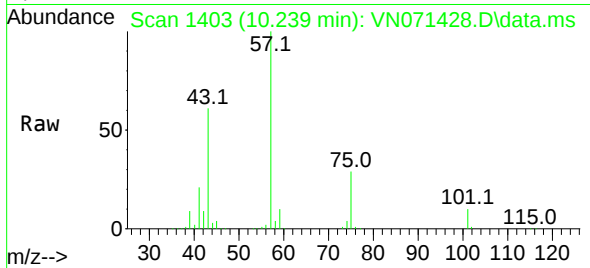




#54
 cis-1,3-Dichloropropene
 Concen: 6.251 ug/l
 RT: 10.239 min Scan# 1403
 Delta R.T. 0.053 min
 Lab File: VN071428.D
 Acq: 21 Mar 2022 19:17

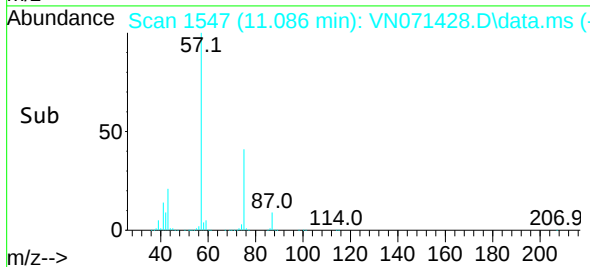
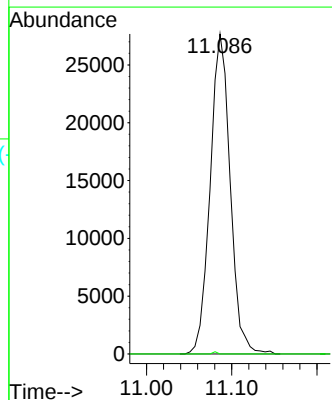
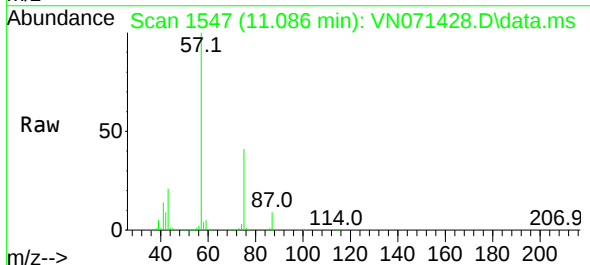
Instrument :
 MSVOA_N
 ClientSampleId :
 VACLOT-SOIL-1

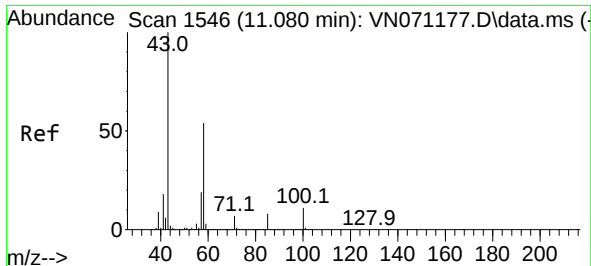
Tgt Ion: 75 Resp: 102232
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.4 39.6#
 39 29.8 42.5 63.7#



#57
 1,3-Dichloropropane
 Concen: 2.507 ug/l
 RT: 11.086 min Scan# 1547
 Delta R.T. 0.047 min
 Lab File: VN071428.D
 Acq: 21 Mar 2022 19:17

Tgt Ion: 76 Resp: 45163
 Ion Ratio Lower Upper
 76 100
 78 0.1 25.7 38.5#

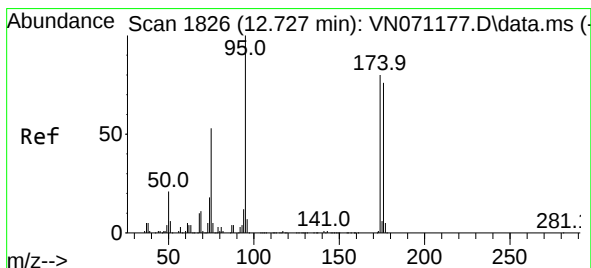
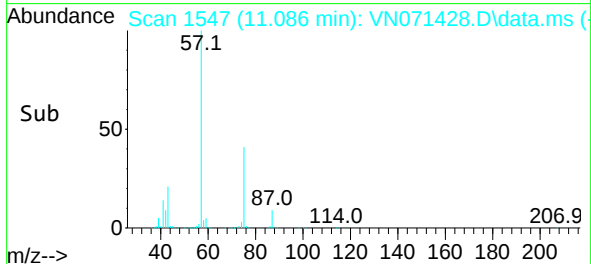
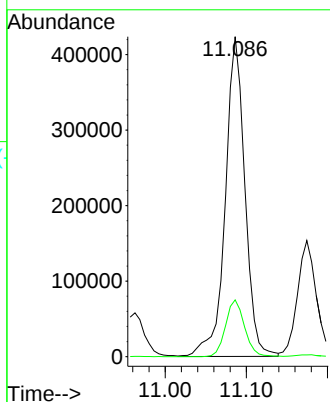
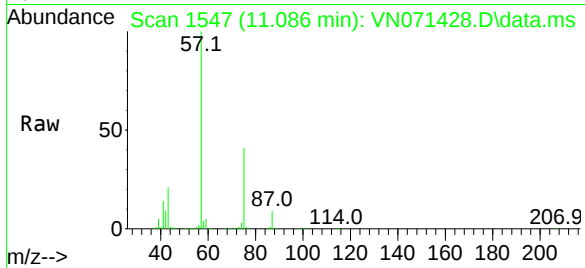




#59
2-Hexanone
Concen: 60.455 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

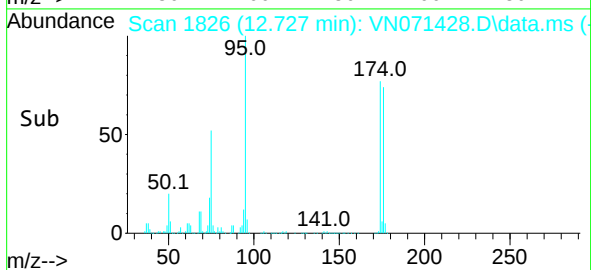
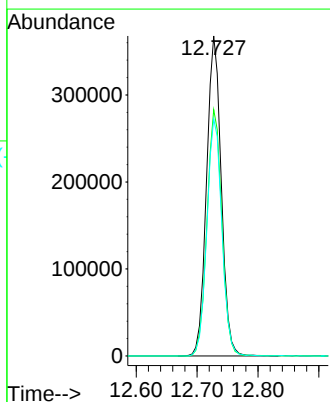
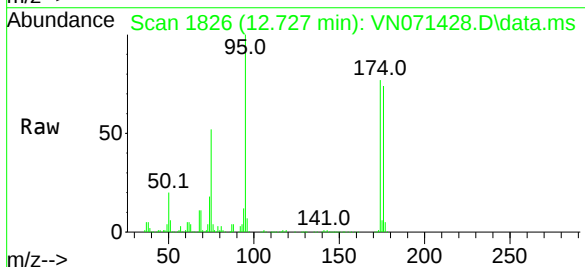
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-1

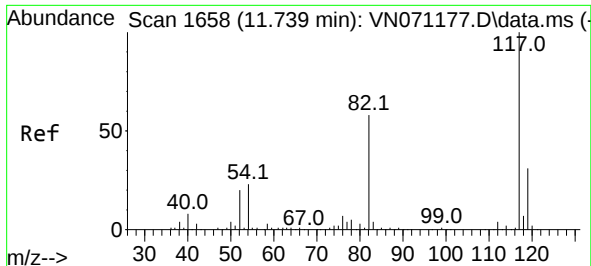
Tgt Ion: 43 Resp: 711111
Ion Ratio Lower Upper
43 100
58 17.3 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 53.615 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

Tgt Ion: 95 Resp: 615804
Ion Ratio Lower Upper
95 100
174 78.0 0.0 187.2
176 75.4 0.0 181.4

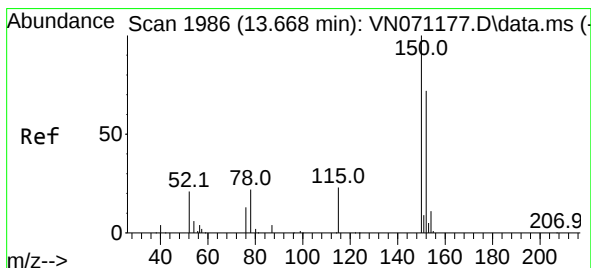
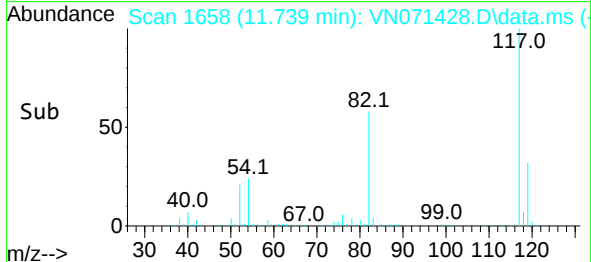
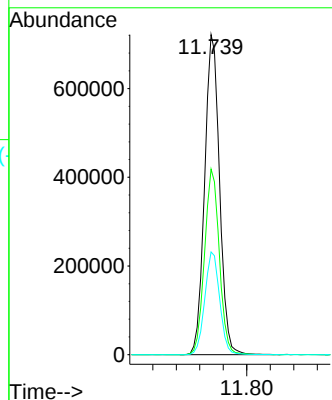
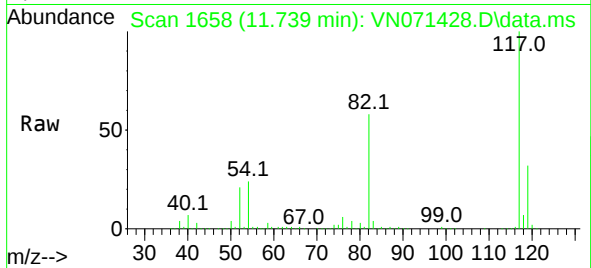




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

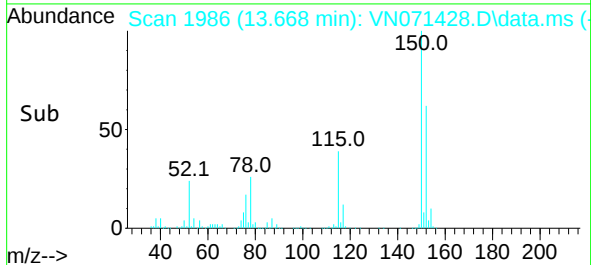
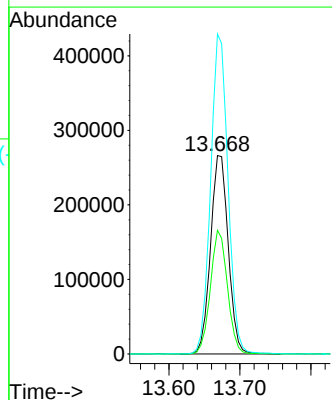
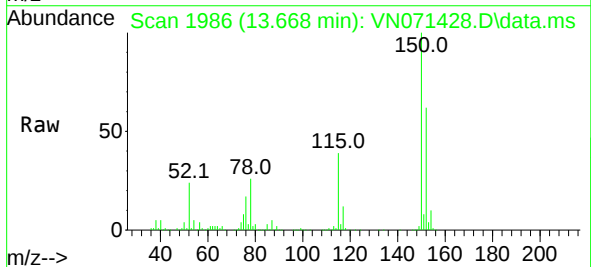
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-1

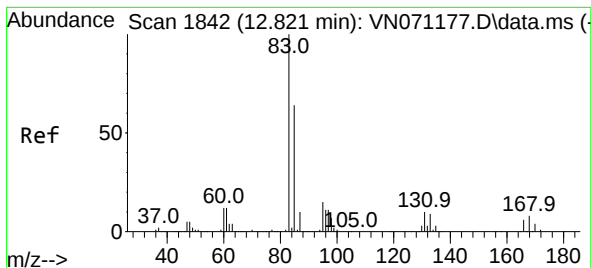
Tgt Ion:117 Resp: 1276750
Ion Ratio Lower Upper
117 100
82 58.0 42.4 63.6
119 32.1 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. 0.000 min
Lab File: VN071428.D
Acq: 21 Mar 2022 19:17

Tgt Ion:152 Resp: 460889
Ion Ratio Lower Upper
152 100
115 60.0 27.5 82.5
150 158.0 0.0 344.4





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.821 min Scan# 1842

Delta R.T. 0.000 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

Instrument :

MSVOA_N

ClientSampleId :

VACLOT-SOIL-1

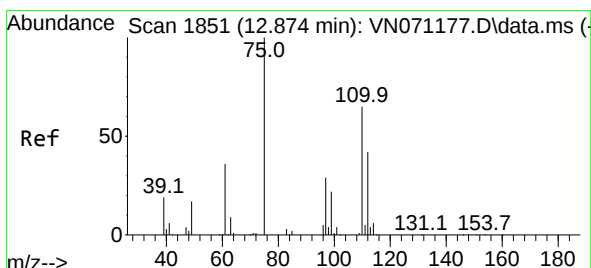
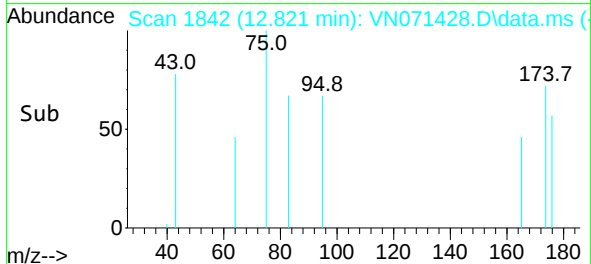
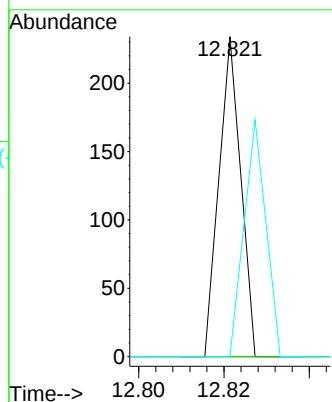
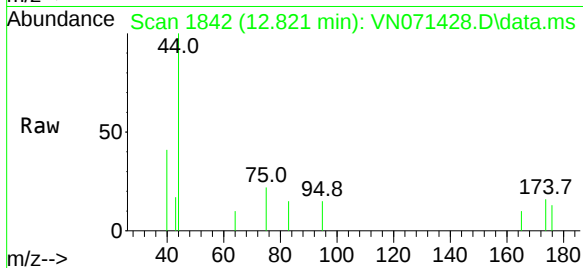
Tgt Ion: 83 Resp: 83

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.5#

85 73.5 32.4 97.2



#76

1,2,3-Trichloropropane

Concen: 27.375 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. -0.147 min

Lab File: VN071428.D

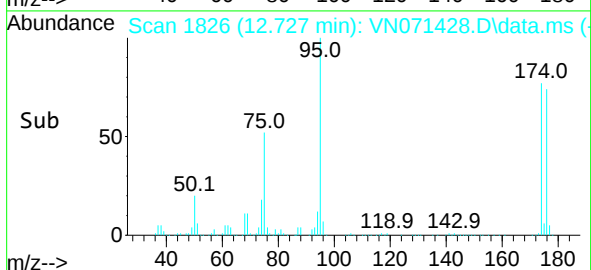
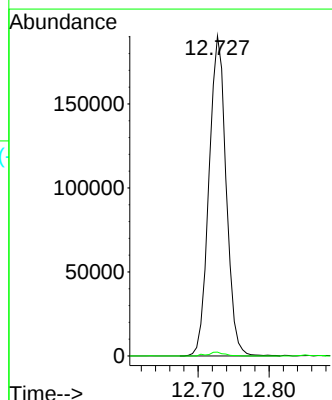
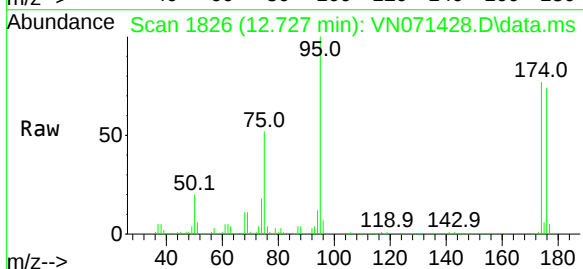
Acq: 21 Mar 2022 19:17

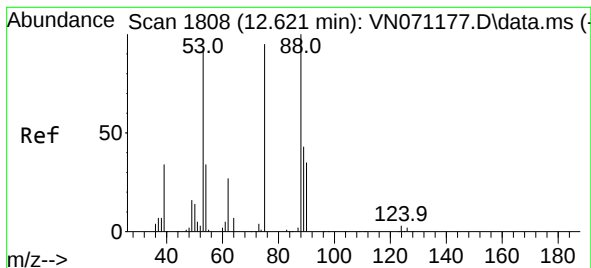
Tgt Ion: 75 Resp: 320059

Ion Ratio Lower Upper

75 100

77 1.1 82.6 247.8#

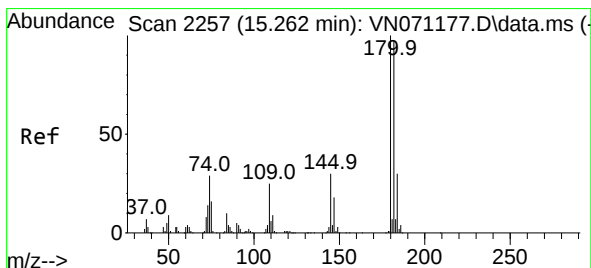
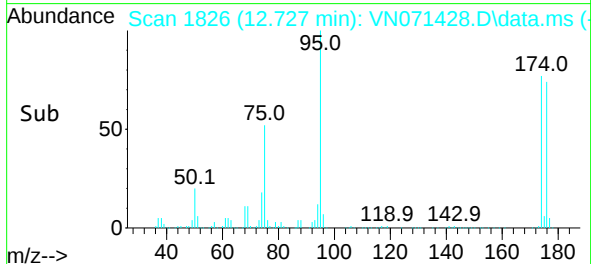
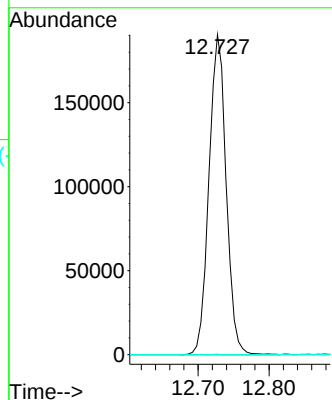
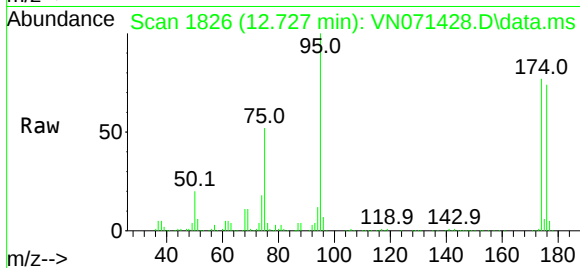




#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.069 ug/l
 RT: 12.727 min Scan# 1808
 Delta R.T. 0.106 min
 Lab File: VN071428.D
 Acq: 21 Mar 2022 19:17

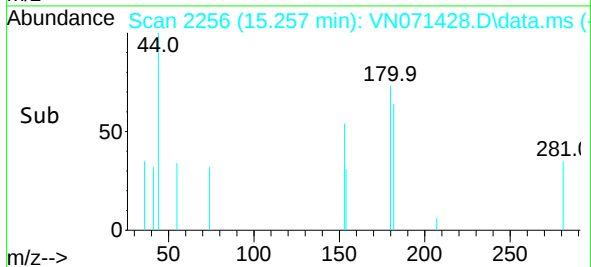
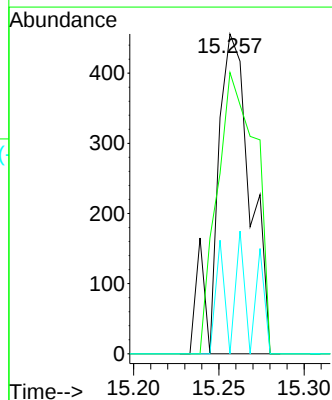
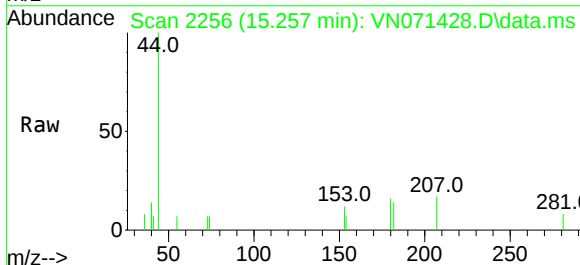
Instrument :
 MSVOA_N
 ClientSampleId :
 VACLOT-SOIL-1

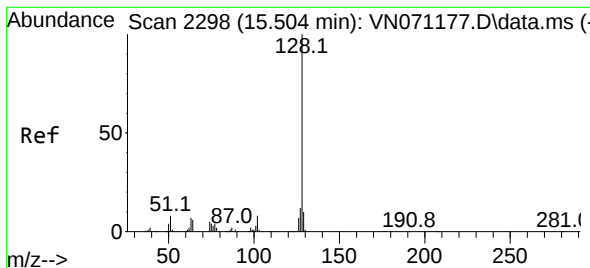
Tgt Ion: 75 Resp: 32059
 Ion Ratio Lower Upper
 75 100
 53 0.1 90.5 135.7#
 89 0.0 38.2 57.4#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.068 ug/l
 RT: 15.257 min Scan# 2256
 Delta R.T. -0.005 min
 Lab File: VN071428.D
 Acq: 21 Mar 2022 19:17

Tgt Ion:180 Resp: 629
 Ion Ratio Lower Upper
 180 100
 182 100.6 48.3 144.9
 145 9.1 14.5 43.5#





#95

Naphthalene

Concen: 5.498 ug/l

RT: 15.504 min Scan# 2298

Delta R.T. -0.000 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

Instrument :

MSVOA_N

ClientSampleId :

VACLOT-SOIL-1

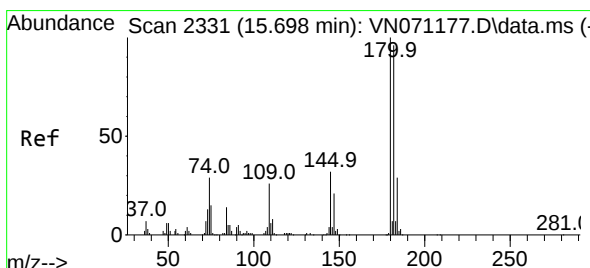
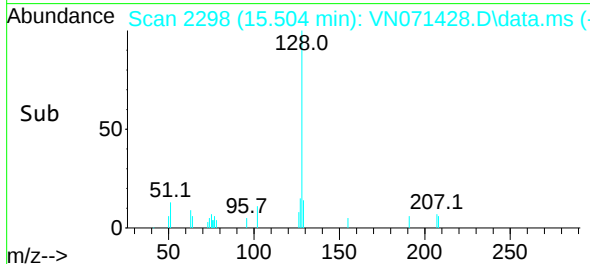
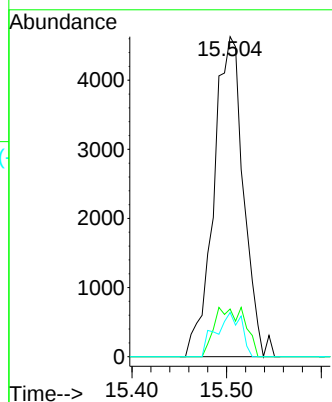
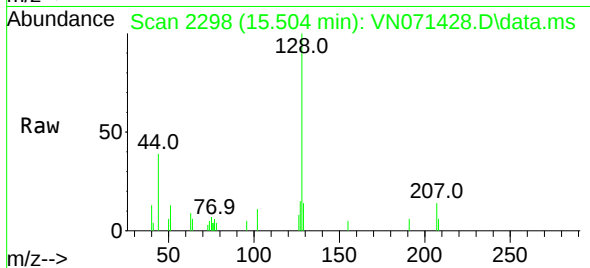
Tgt Ion:128 Resp: 10113

Ion Ratio Lower Upper

128 100

127 15.8 10.5 15.7#

129 11.9 8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 2.845 ug/l

RT: 15.698 min Scan# 2331

Delta R.T. -0.000 min

Lab File: VN071428.D

Acq: 21 Mar 2022 19:17

Tgt Ion:180 Resp: 866

Ion Ratio Lower Upper

180 100

182 97.5 47.4 142.2

145 8.7 15.0 45.1#

