

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032122\
 Data File : VN071429.D
 Acq On : 21 Mar 2022 19:41
 Operator : JC\MD
 Sample : N1985-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VACLOT-SOIL-2

Quant Time: Mar 22 06:22:12 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

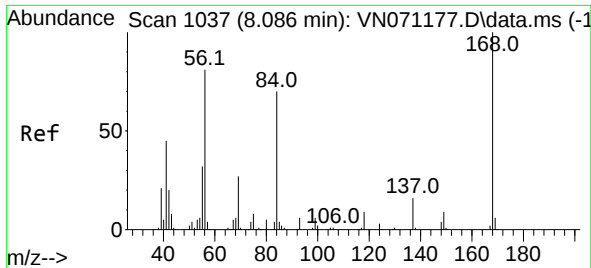
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.081	168	764176	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1296552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1248885	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	451785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	497049	47.459	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	94.920%		
35) Dibromofluoromethane	8.022	113	372643	45.546	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	91.100%		
50) Toluene-d8	10.439	98	1612136	48.939	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.880%		
62) 4-Bromofluorobenzene	12.727	95	596821	53.503	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	107.000%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	3408	0.269 ug/l	#	85
5) Bromomethane	2.846	94	1115	Below Cal		94
11) Tert butyl alcohol	5.369	59	748	0.364 ug/l	#	71
13) Acrolein	4.034	56	636	0.292 ug/l	#	80
16) Acetone	4.287	43	135284	26.547 ug/l		97
17) Carbon Disulfide	4.534	76	20000	0.917 ug/l		99
18) Methyl Acetate	4.857	43	31707	2.765 ug/l		93
20) Methylene Chloride	5.093	84	21402	2.662 ug/l		91
25) 2-Butanone	7.334	43	67944	8.277 ug/l		93
29) Tetrahydrofuran	7.704	42	2369	0.417 ug/l	#	64
31) Cyclohexane	8.086	56	16212	0.969 ug/l	#	1
36) 1,1-Dichloropropene	8.081	75	59996	4.577 ug/l	#	49
37) Ethyl Acetate	7.334	43	67944	3.766 ug/l	#	70
38) Carbon Tetrachloride	8.081	117	77039	6.076 ug/l	#	16
43) Isopropyl Acetate	8.557	43	94781	3.513 ug/l	#	83
45) 1,2-Dichloropropane	9.628	63	3697	0.349 ug/l	#	44
48) Methyl methacrylate	9.539	41	20980	1.678 ug/l	#	8
49) 1,4-Dioxane	9.616	88	523	2.407 ug/l	#	1
51) 4-Methyl-2-Pentanone	10.328	43	18281	1.092 ug/l		97
54) cis-1,3-Dichloropropene	10.239	75	102596	6.459 ug/l	#	58
57) 1,3-Dichloropropane	11.086	76	44114	2.522 ug/l	#	43
59) 2-Hexanone	11.086	43	716073	62.681 ug/l	#	49
71) Bromoform	12.727	173	3792	0.508 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.727	83	271	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.727	75	309533	26.968 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.727	75	309533	74.063 ug/l	#	5
93) 1,2,4-Trichlorobenzene	15.263	180	440	3.045 ug/l	#	52
95) Naphthalene	15.504	128	19351	5.907 ug/l		95
96) 1,2,3-Trichlorobenzene	15.686	180	458	2.793 ug/l	#	12

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

Quant Time: Mar 22 06:22:12 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

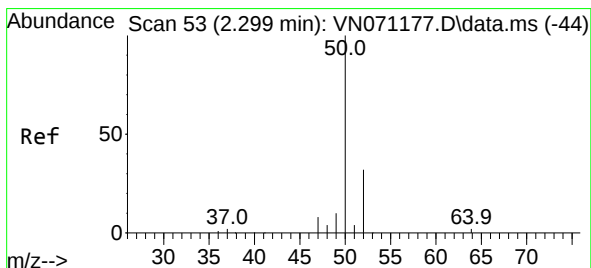
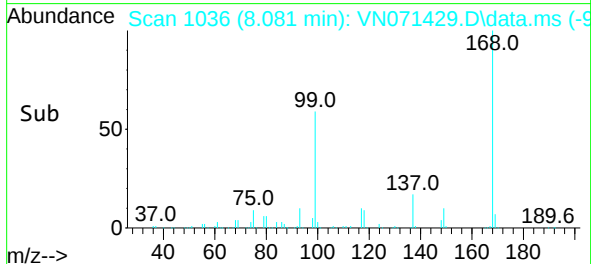
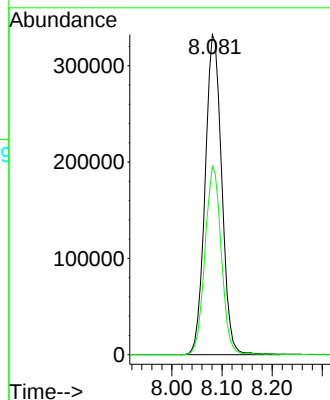
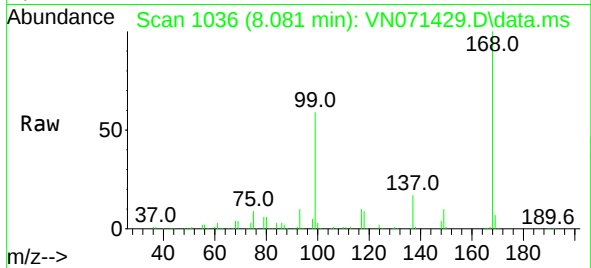




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.005 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

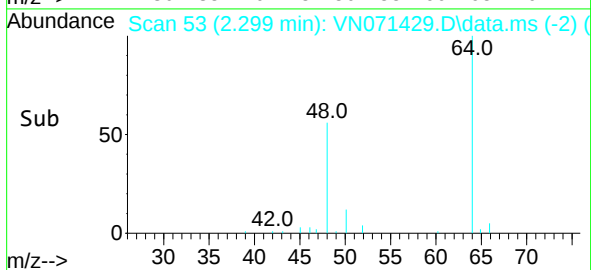
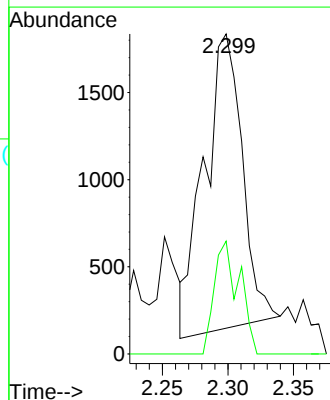
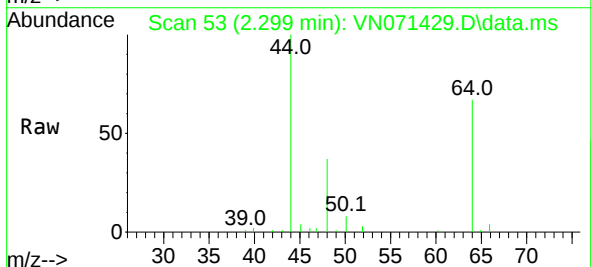
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

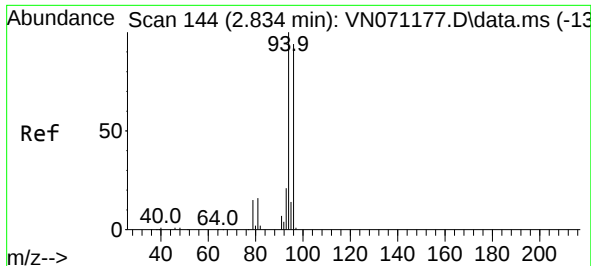
Tgt Ion:168 Resp: 764176
Ion Ratio Lower Upper
168 100
99 58.9 41.3 61.9



#3
Chloromethane
Concen: 0.269 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 50 Resp: 3408
Ion Ratio Lower Upper
50 100
52 40.0 25.4 38.0#

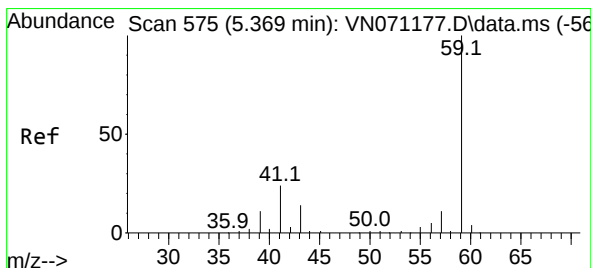
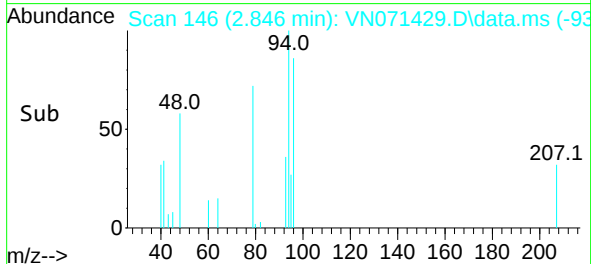
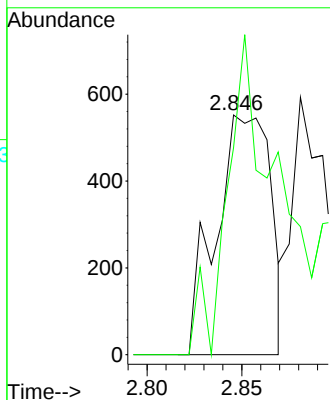
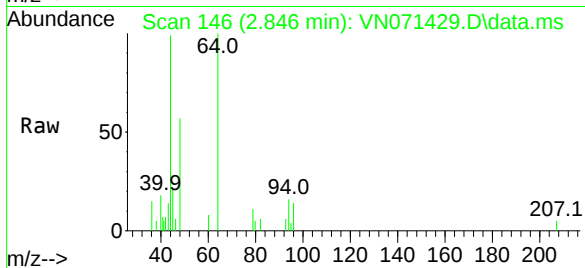




#5
Bromomethane
Concen: Below Cal
RT: 2.846 min Scan# 144
Delta R.T. 0.012 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

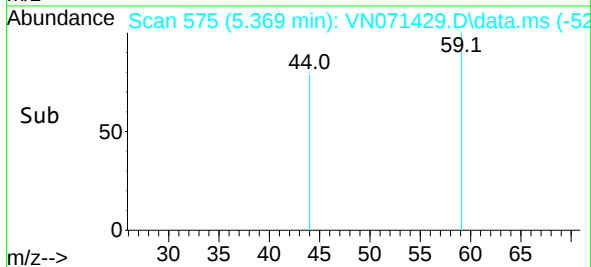
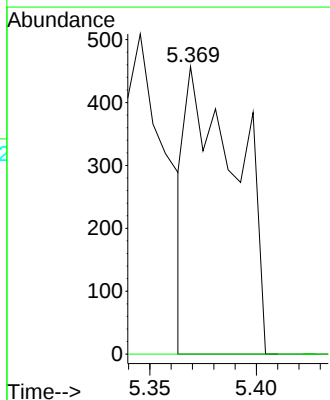
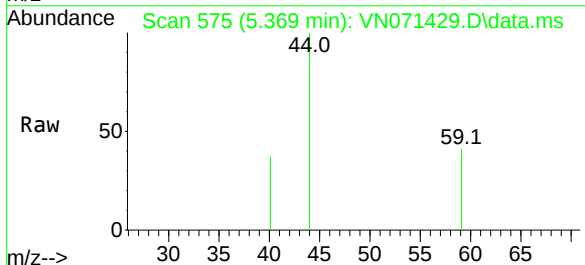
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

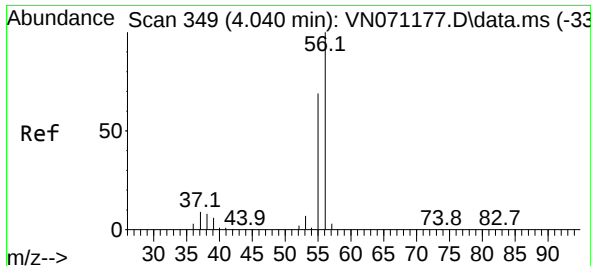
Tgt Ion: 94 Resp: 1115
Ion Ratio Lower Upper
94 100
96 86.4 73.8 110.8



#11
Tert butyl alcohol
Concen: 0.364 ug/l
RT: 5.369 min Scan# 575
Delta R.T. 0.000 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 59 Resp: 748
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

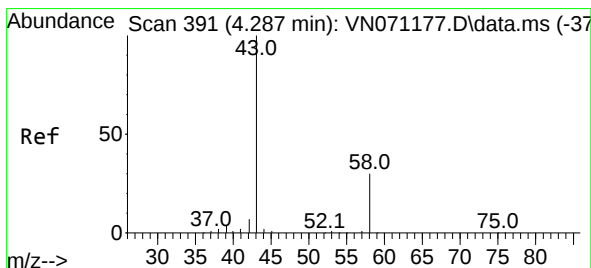
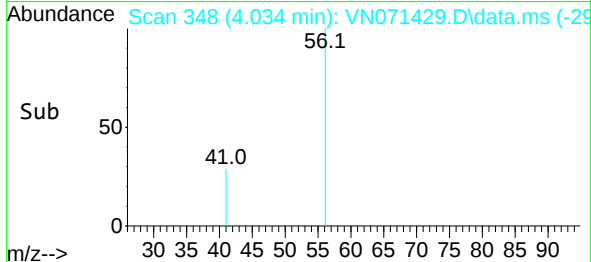
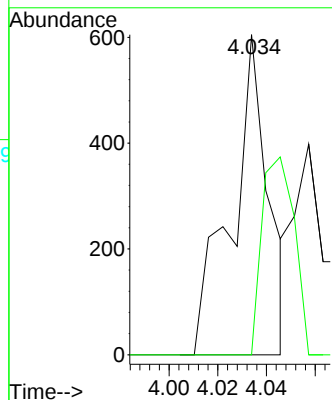
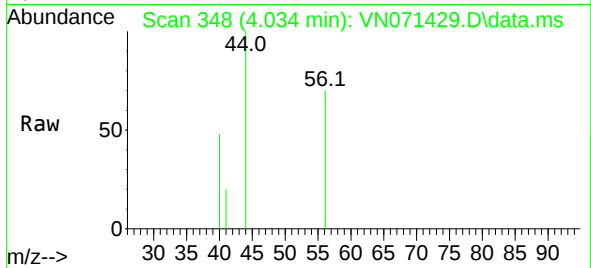




#13
Acrolein
Concen: 0.292 ug/l
RT: 4.034 min Scan# 349
Delta R.T. -0.006 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

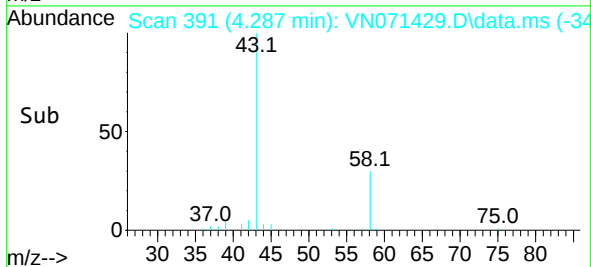
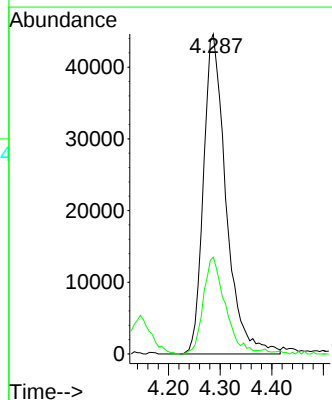
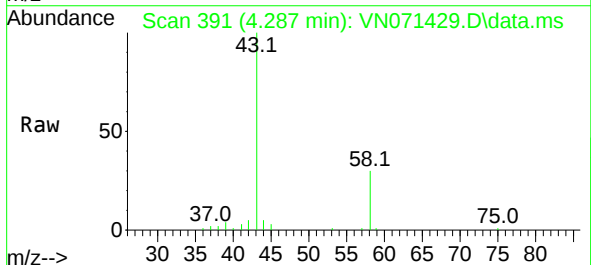
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

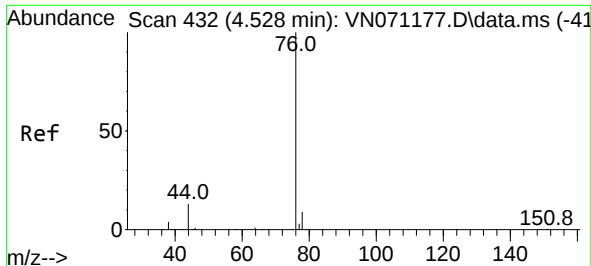
Tgt Ion: 56 Resp: 636
Ion Ratio Lower Upper
56 100
55 54.2 56.6 85.0#



#16
Acetone
Concen: 26.547 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.000 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 43 Resp: 135284
Ion Ratio Lower Upper
43 100
58 30.2 23.1 34.7

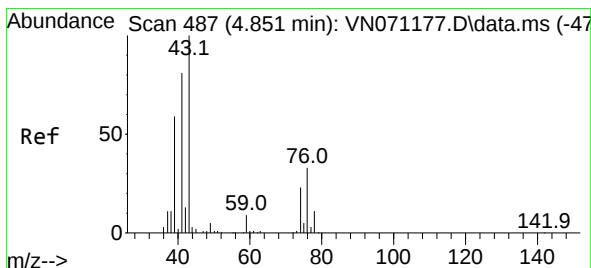
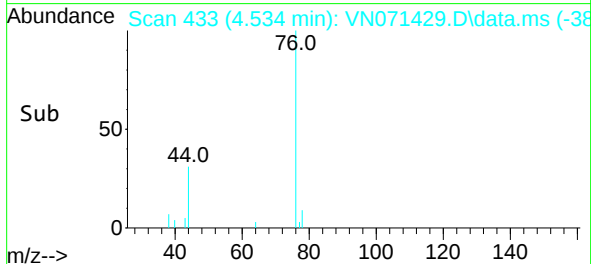
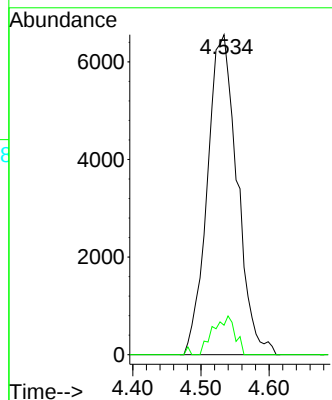
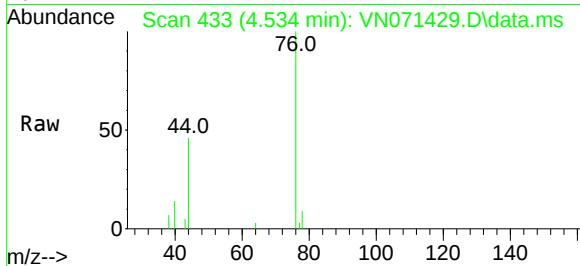




#17
Carbon Disulfide
Concen: 0.917 ug/l
RT: 4.534 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

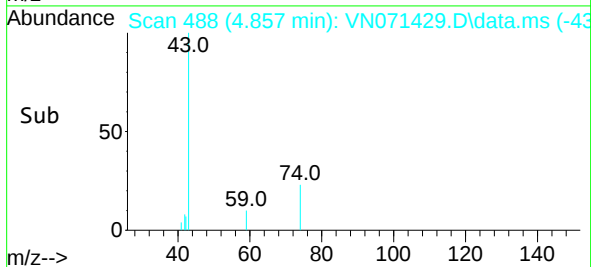
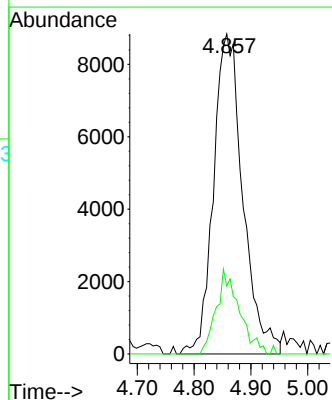
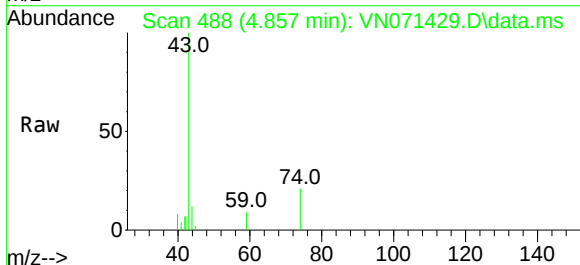
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

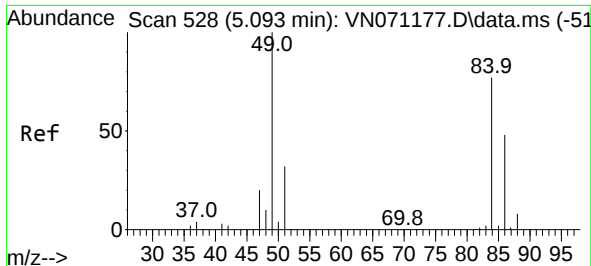
Tgt Ion: 76 Resp: 20000
Ion Ratio Lower Upper
76 100
78 9.2 7.5 11.3



#18
Methyl Acetate
Concen: 2.765 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.006 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 43 Resp: 31707
Ion Ratio Lower Upper
43 100
74 20.8 19.4 29.2

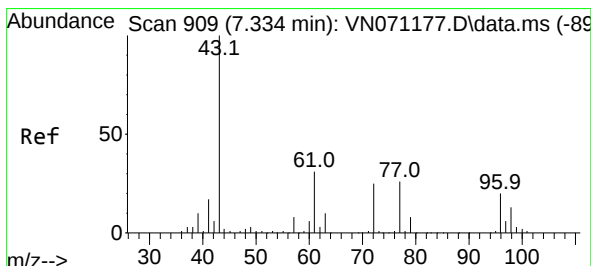
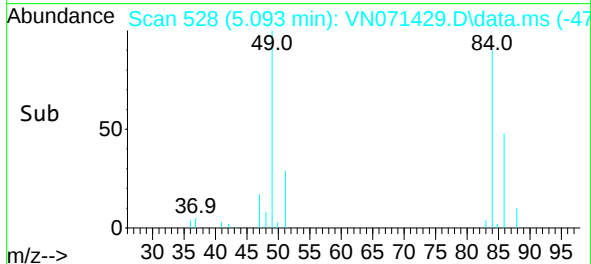
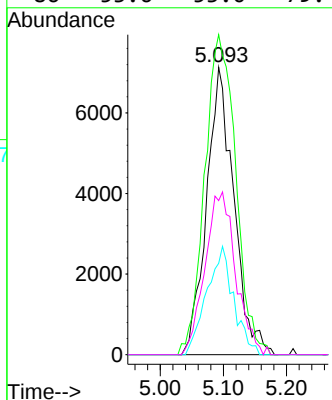
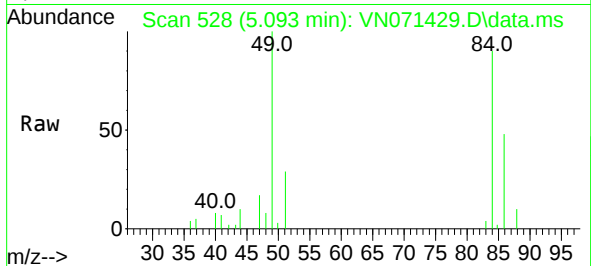




#20
Methylene Chloride
Concen: 2.662 ug/l
RT: 5.093 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

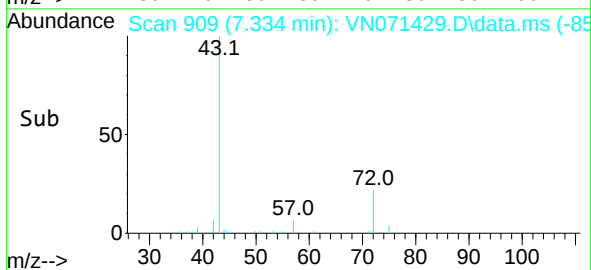
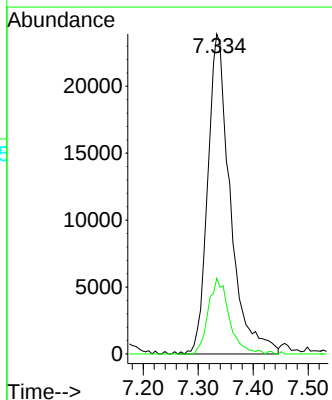
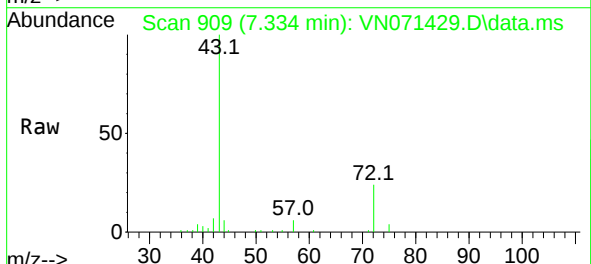
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MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

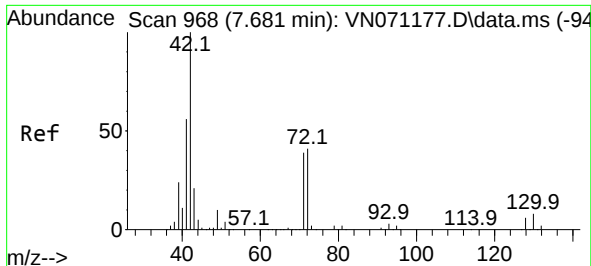
Tgt Ion:	84	Resp:	21402
Ion	Ratio	Lower	Upper
84	100		
49	111.3	93.5	140.3
51	31.8	29.4	44.2
86	53.6	53.0	79.4



#25
2-Butanone
Concen: 8.277 ug/l
RT: 7.334 min Scan# 909
Delta R.T. 0.000 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion:	43	Resp:	67944
Ion	Ratio	Lower	Upper
43	100		
72	23.7	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.417 ug/l

RT: 7.704 min Scan# 91

Delta R.T. 0.024 min

Lab File: VN071429.D

Acq: 21 Mar 2022 19:41

Instrument :

MSVOA_N

ClientSampleId :

VACLOT-SOIL-2

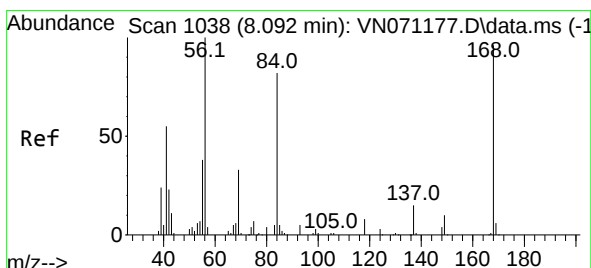
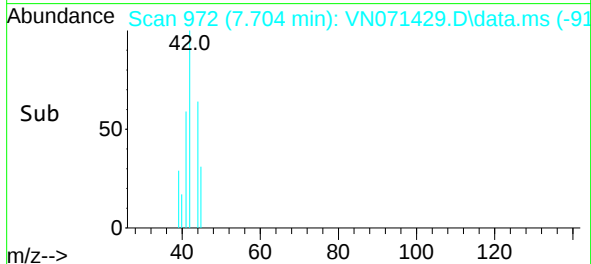
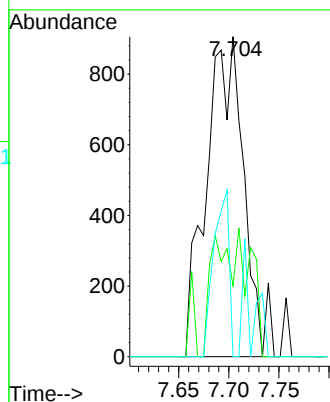
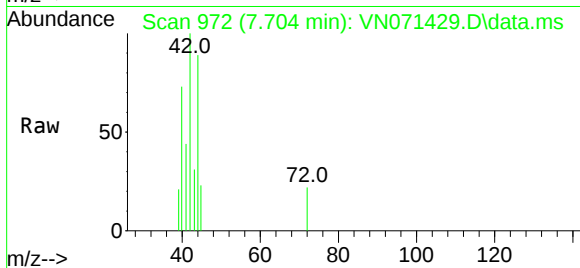
Tgt Ion: 42 Resp: 2369

Ion Ratio Lower Upper

42 100

72 20.5 36.3 54.5#

71 21.3 34.7 52.1#



#31

Cyclohexane

Concen: 0.969 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VN071429.D

Acq: 21 Mar 2022 19:41

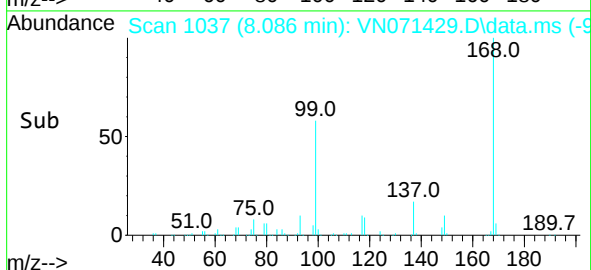
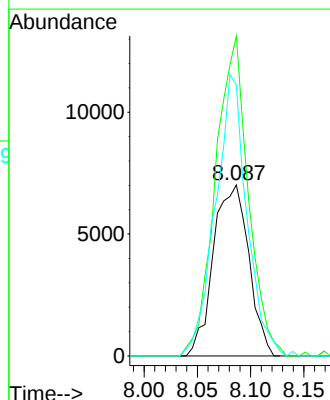
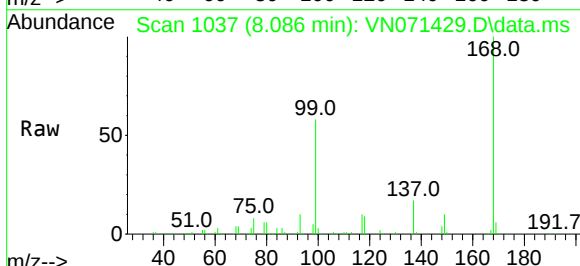
Tgt Ion: 56 Resp: 16212

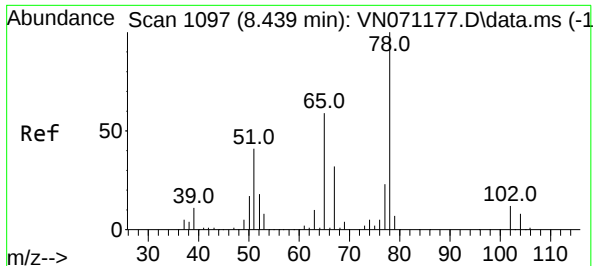
Ion Ratio Lower Upper

56 100

69 187.1 27.1 40.7#

84 158.6 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 47.459 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071429.D

Acq: 21 Mar 2022 19:41

Instrument :

MSVOA_N

ClientSampleId :

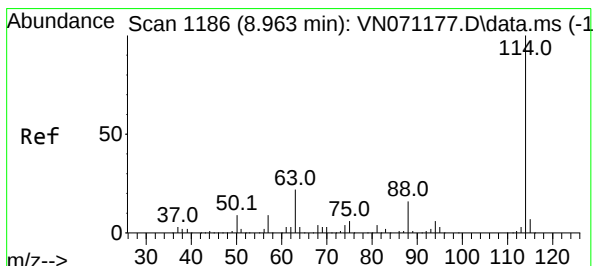
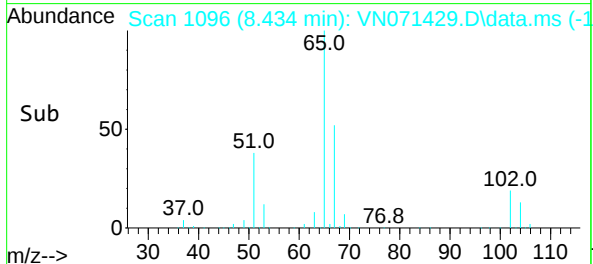
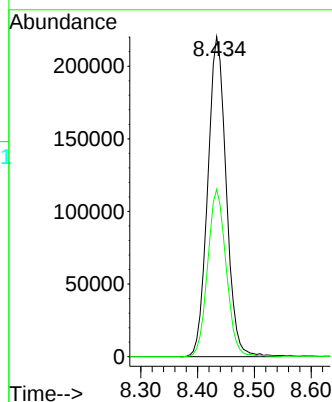
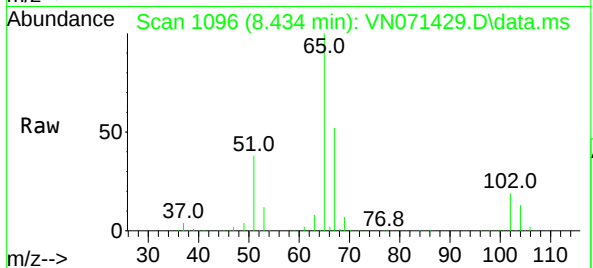
VACLOT-SOIL-2

Tgt Ion: 65 Resp: 497049

Ion Ratio Lower Upper

65 100

67 52.2 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: VN071429.D

Acq: 21 Mar 2022 19:41

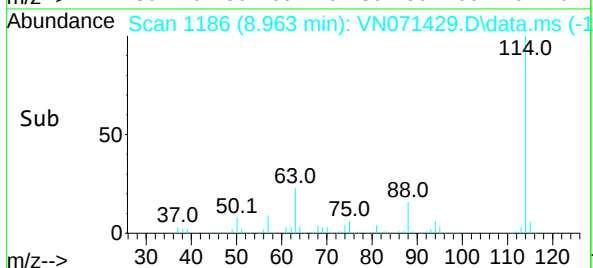
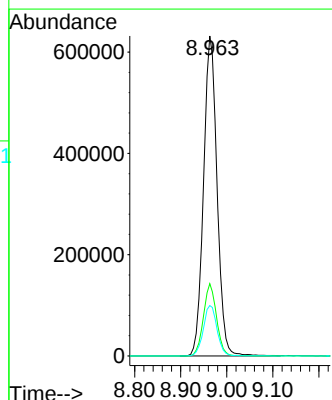
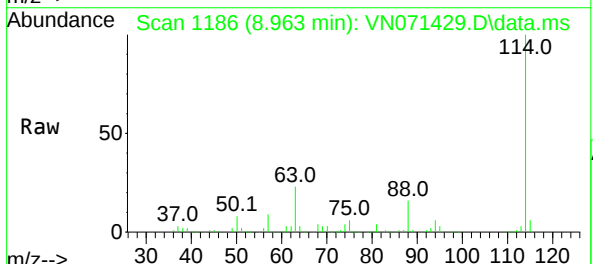
Tgt Ion: 114 Resp: 1296552

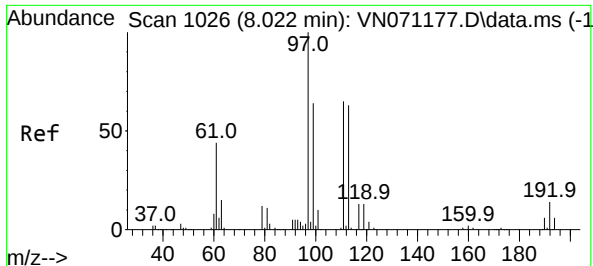
Ion Ratio Lower Upper

114 100

63 22.6 0.0 37.8

88 15.7 0.0 27.4





#35

Dibromofluoromethane

Concen: 45.546 ug/l

RT: 8.022 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VN071429.D

Acq: 21 Mar 2022 19:41

Instrument :

MSVOA_N

ClientSampleId :

VACLOT-SOIL-2

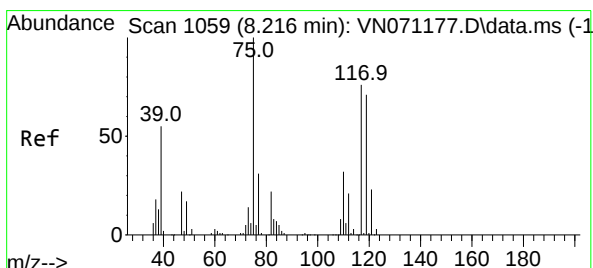
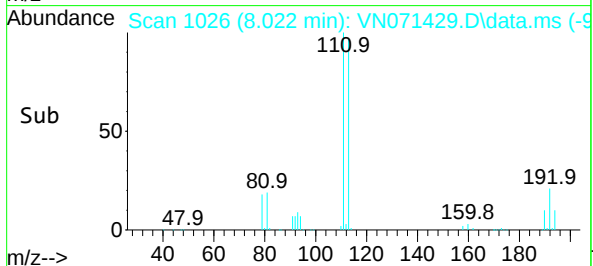
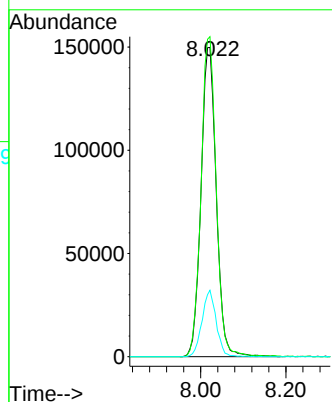
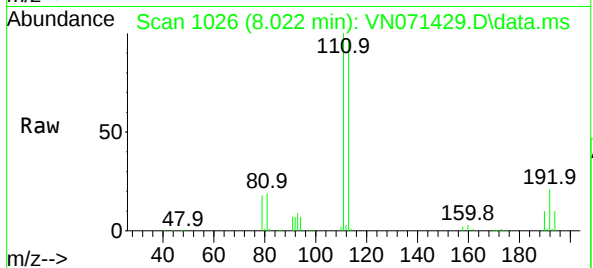
Tgt Ion:113 Resp: 372643

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.2

192 20.0 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.577 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071429.D

Acq: 21 Mar 2022 19:41

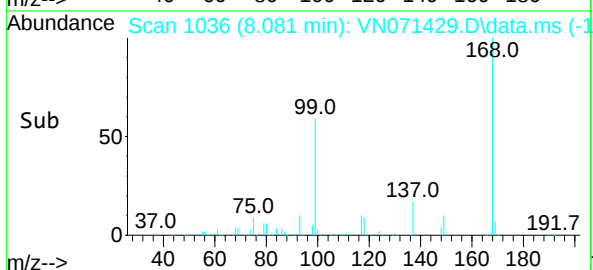
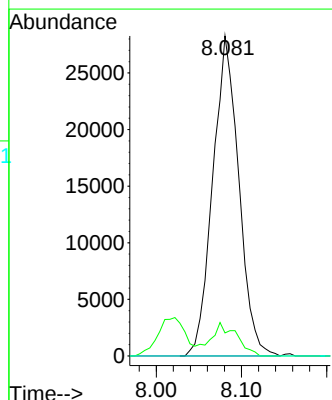
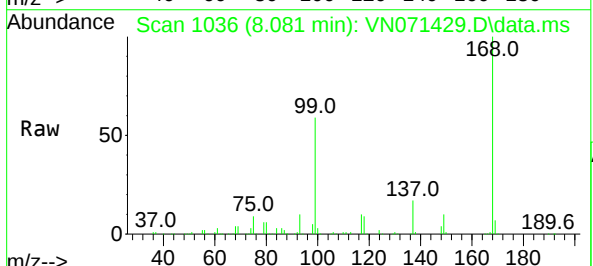
Tgt Ion: 75 Resp: 59996

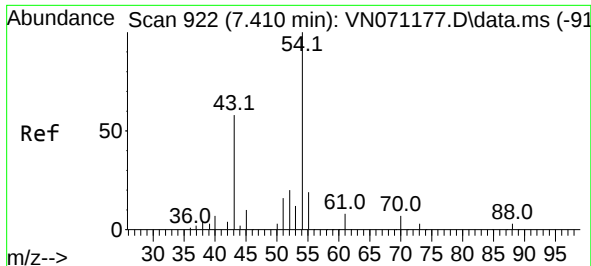
Ion Ratio Lower Upper

75 100

110 9.3 18.4 55.2#

77 0.0 24.4 36.6#

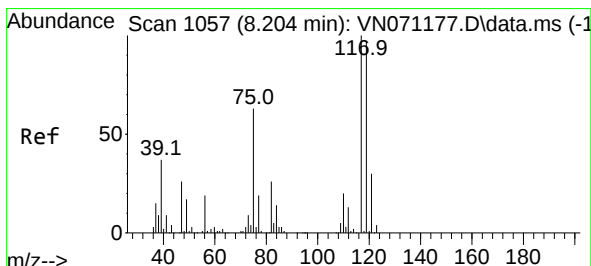
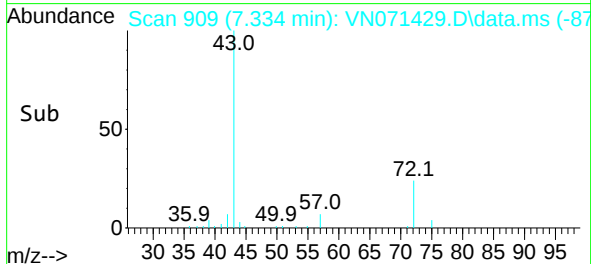
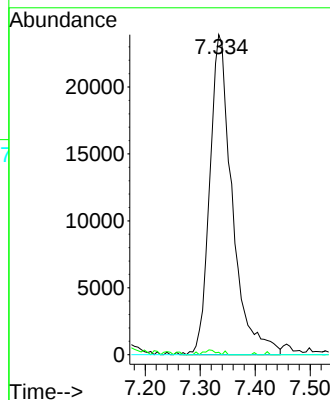
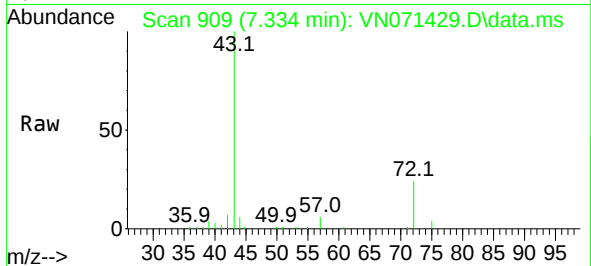




#37
Ethyl Acetate
Concen: 3.766 ug/l
RT: 7.334 min Scan# 909
Delta R.T. -0.076 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

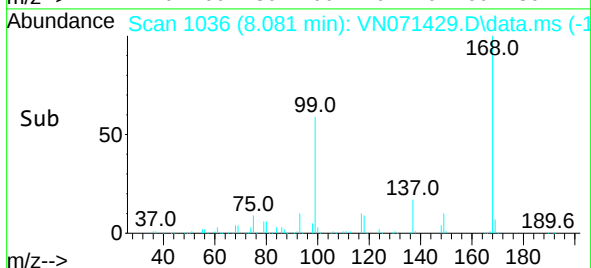
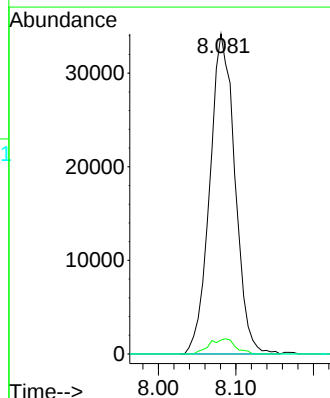
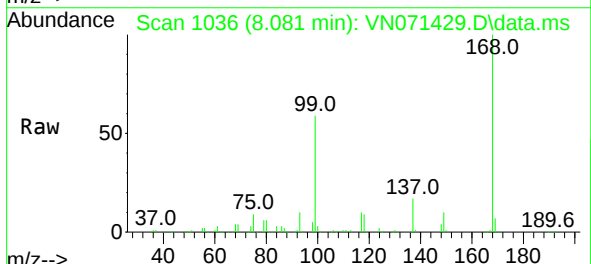
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

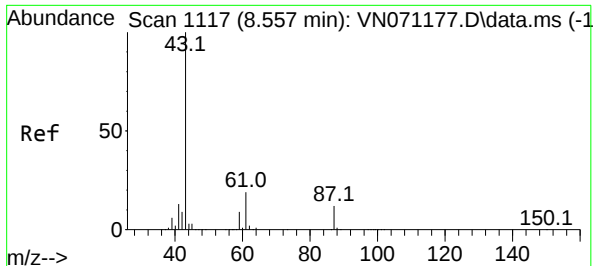
Tgt Ion: 43 Resp: 67944
Ion Ratio Lower Upper
43 100
61 0.8 11.5 17.3#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.076 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.123 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 117 Resp: 77039
Ion Ratio Lower Upper
117 100
119 4.4 76.1 114.1#
121 0.0 24.2 36.2#





#43

Isopropyl Acetate

Concen: 3.513 ug/l

RT: 8.557 min Scan# 1117

Delta R.T. 0.000 min

Lab File: VN071429.D

Acq: 21 Mar 2022 19:41

Instrument :

MSVOA_N

ClientSampleId :

VACLOT-SOIL-2

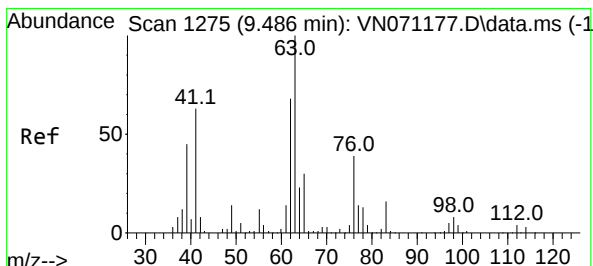
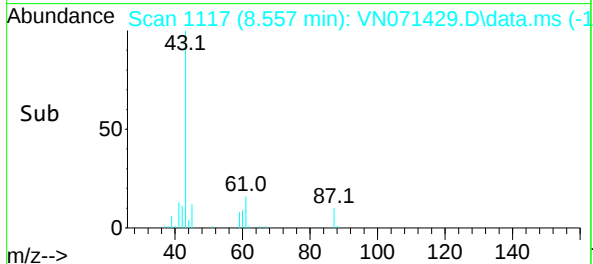
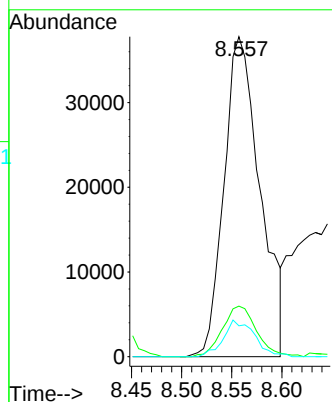
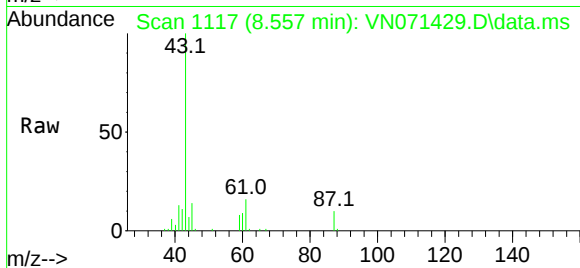
Tgt Ion: 43 Resp: 94781

Ion Ratio Lower Upper

43 100

61 14.9 20.4 30.6#

87 9.9 11.2 16.8#



#45

1,2-Dichloropropane

Concen: 0.349 ug/l

RT: 9.628 min Scan# 1299

Delta R.T. 0.142 min

Lab File: VN071429.D

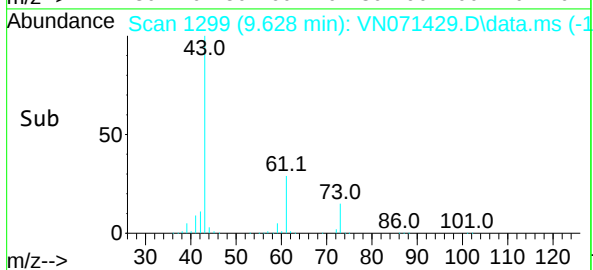
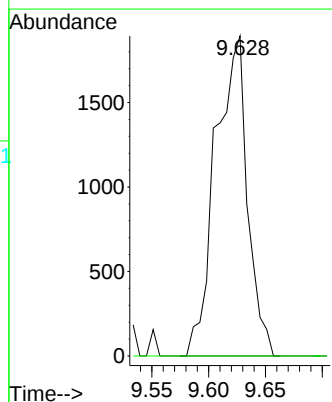
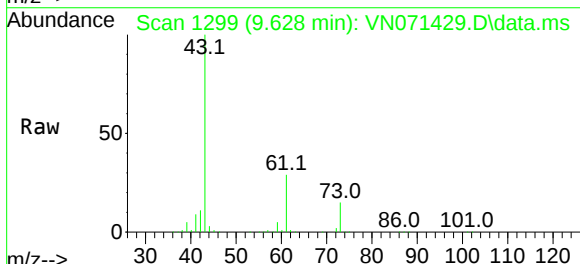
Acq: 21 Mar 2022 19:41

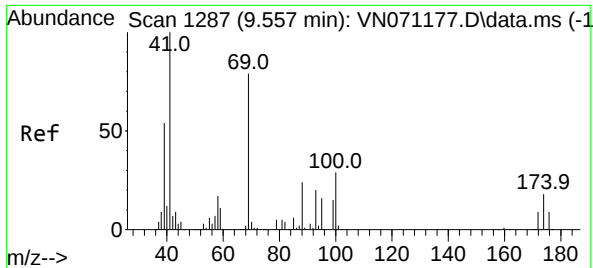
Tgt Ion: 63 Resp: 3697

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#

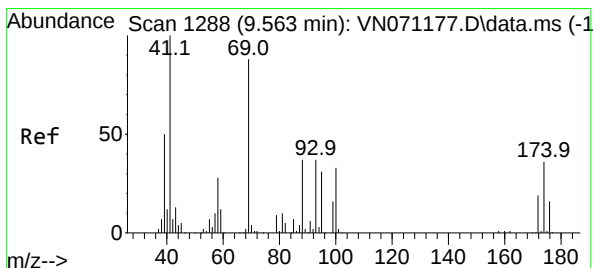
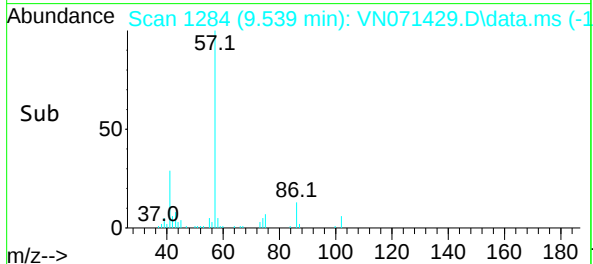
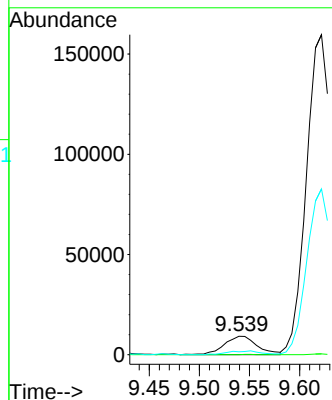
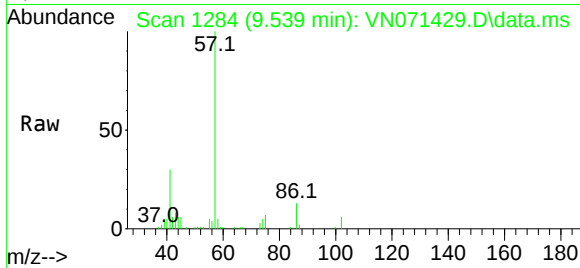




#48
Methyl methacrylate
Concen: 1.678 ug/l
RT: 9.539 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

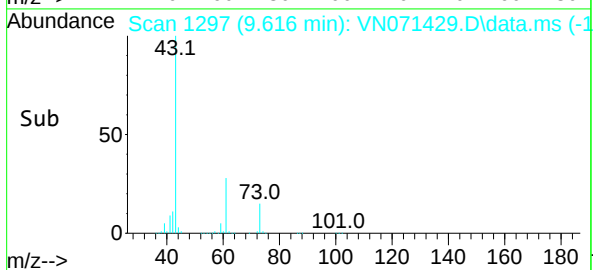
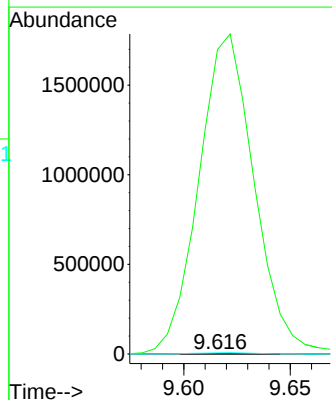
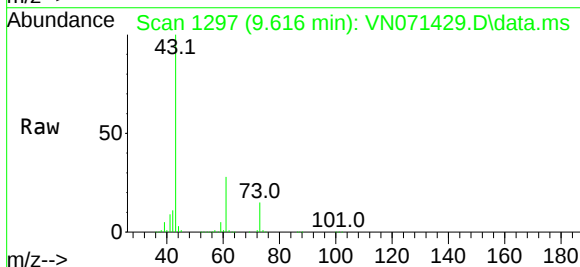
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

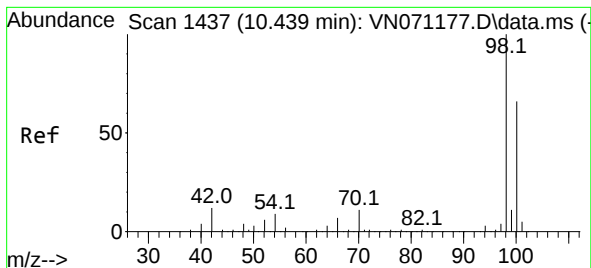
Tgt Ion: 41 Resp: 20980
Ion Ratio Lower Upper
41 100
69 0.5 72.4 108.6#
39 0.0 58.4 87.6#



#49
1,4-Dioxane
Concen: 2.407 ug/l
RT: 9.616 min Scan# 1297
Delta R.T. 0.053 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 88 Resp: 523
Ion Ratio Lower Upper
88 100
43 626180.5 23.4 35.2#
58 2565.4 50.6 75.8#

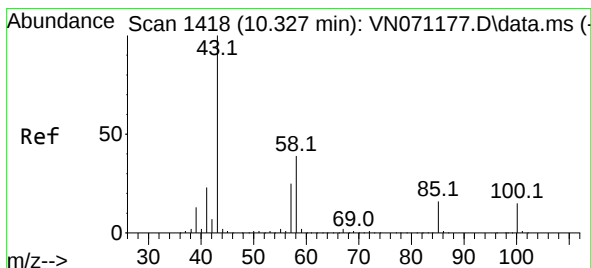
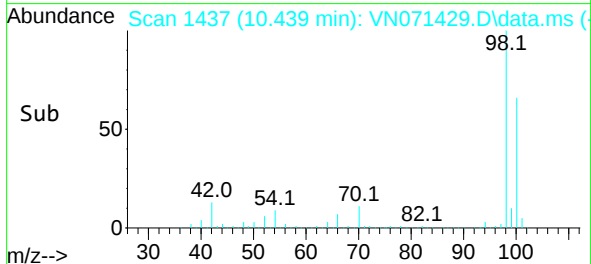
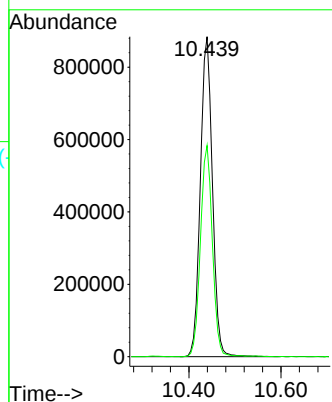
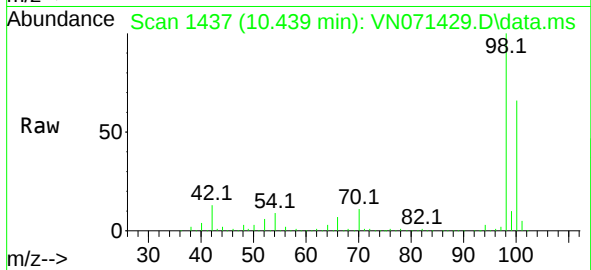




#50
Toluene-d8
Concen: 48.939 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

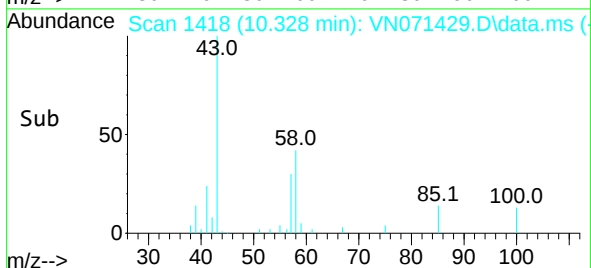
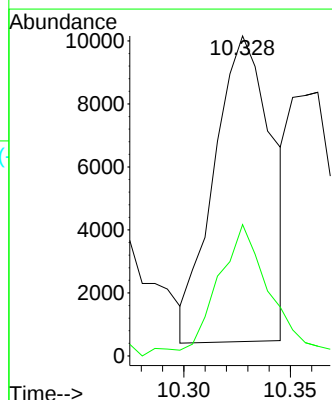
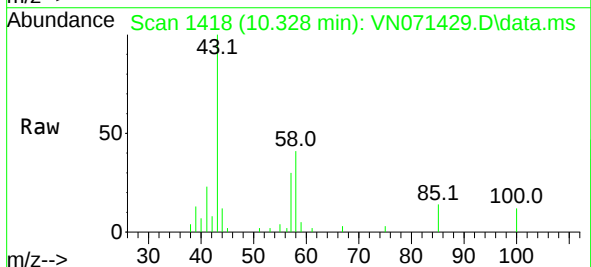
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

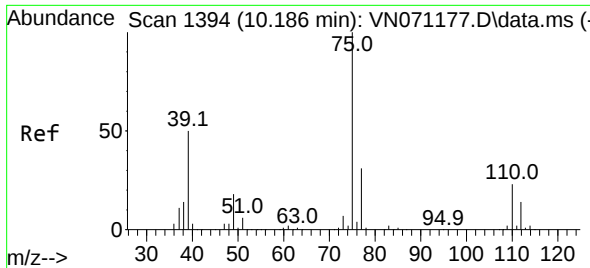
Tgt Ion: 98 Resp: 1612136
Ion Ratio Lower Upper
98 100
100 65.3 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 1.092 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 43 Resp: 18281
Ion Ratio Lower Upper
43 100
58 39.7 30.4 45.6

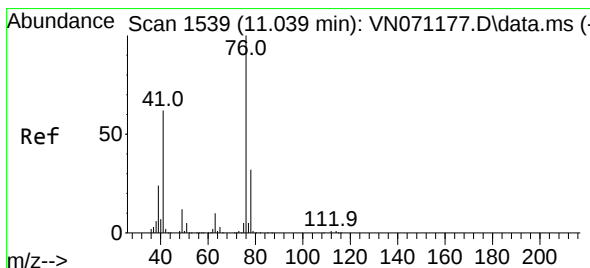
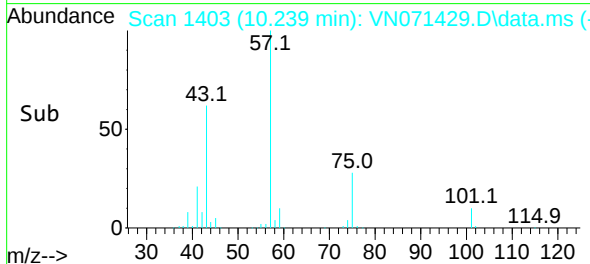
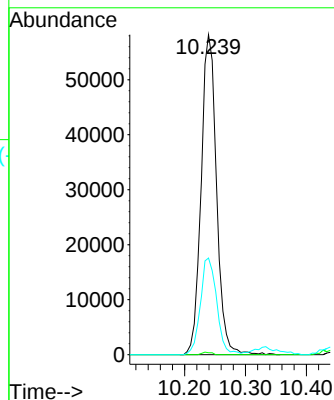
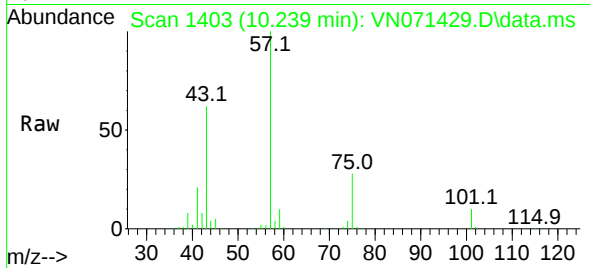




#54
cis-1,3-Dichloropropene
Concen: 6.459 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.053 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

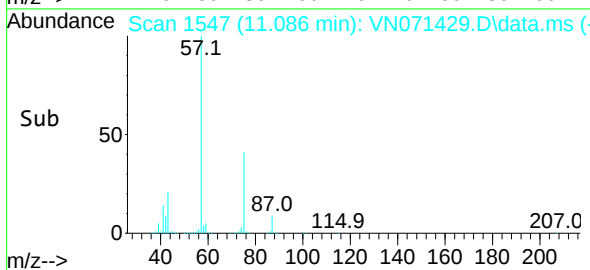
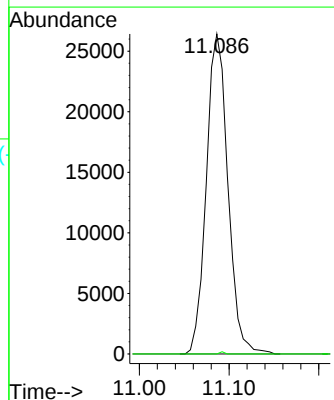
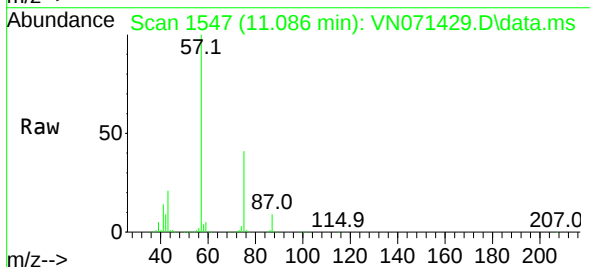
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

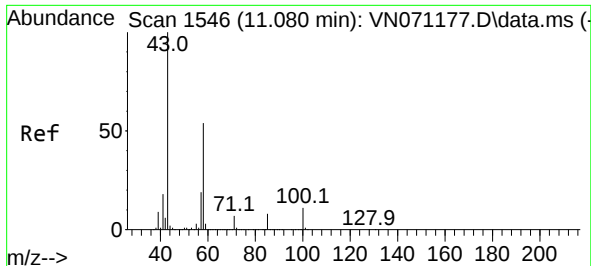
Tgt Ion: 75 Resp: 102596
Ion Ratio Lower Upper
75 100
77 0.6 26.4 39.6#
39 30.2 42.5 63.7#



#57
1,3-Dichloropropane
Concen: 2.522 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.047 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 76 Resp: 44114
Ion Ratio Lower Upper
76 100
78 0.1 25.7 38.5#

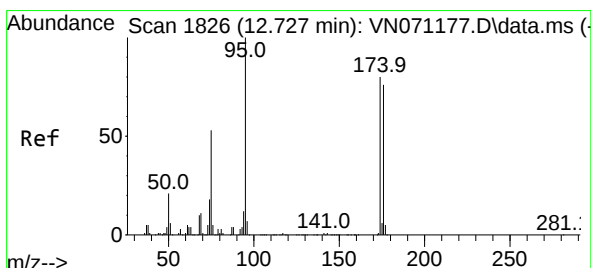
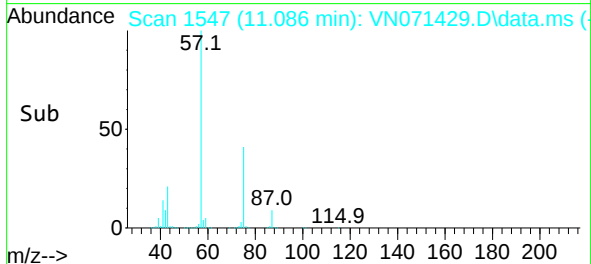
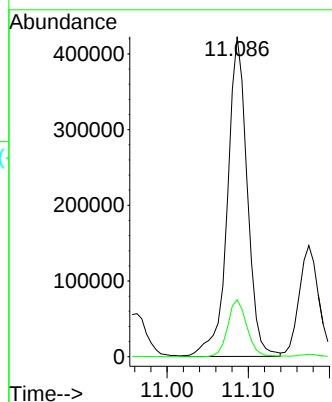
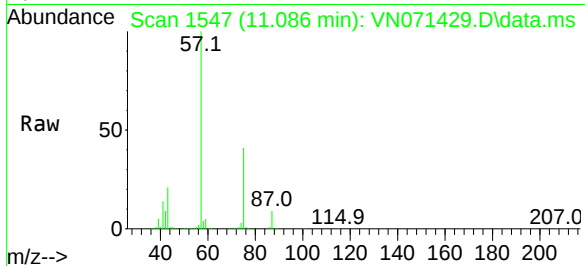




#59
2-Hexanone
Concen: 62.681 ug/l
RT: 11.086 min Scan# 1154
Delta R.T. 0.006 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

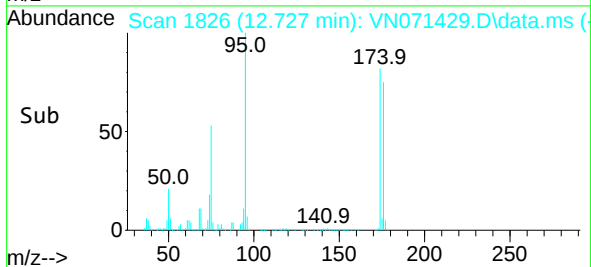
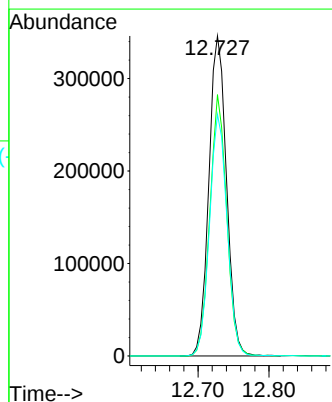
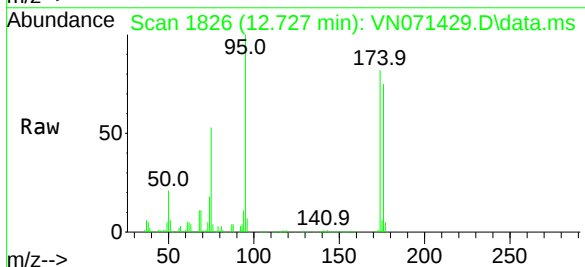
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

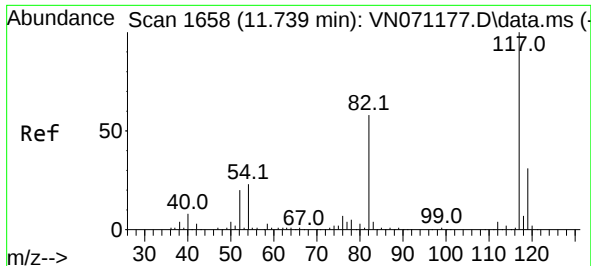
Tgt Ion: 43 Resp: 716073
Ion Ratio Lower Upper
43 100
58 17.3 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 53.503 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 95 Resp: 596821
Ion Ratio Lower Upper
95 100
174 78.2 0.0 187.2
176 75.1 0.0 181.4

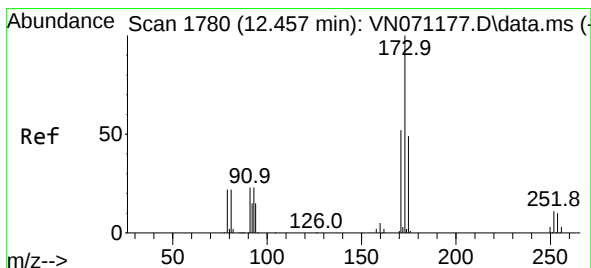
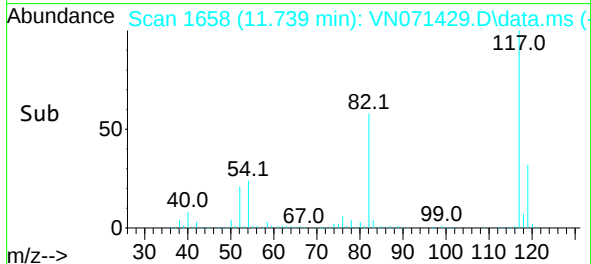
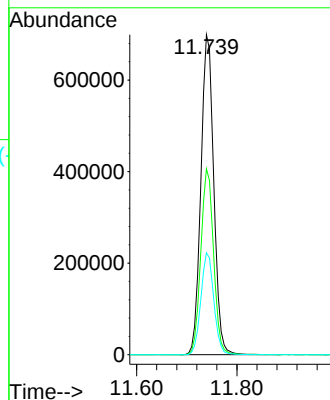
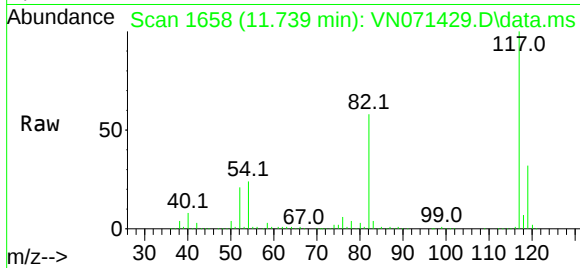




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

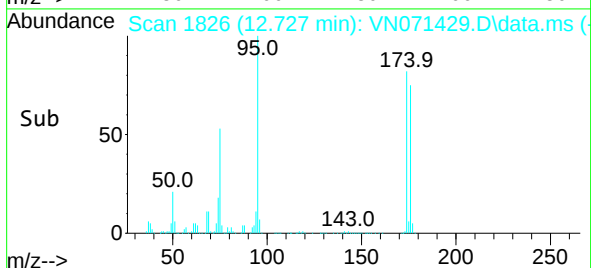
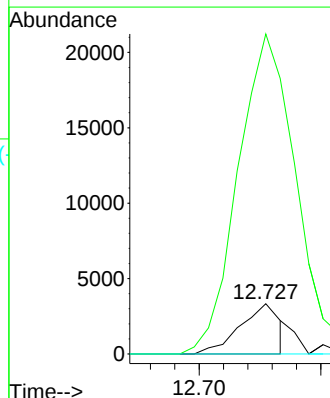
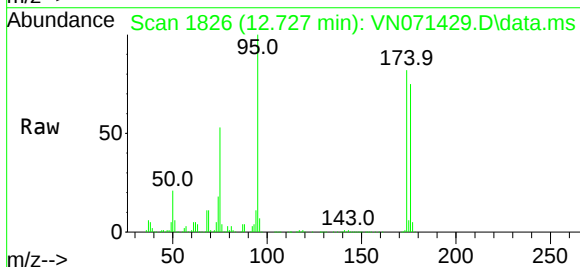
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

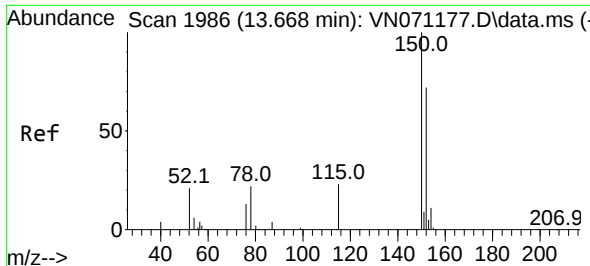
Tgt Ion:117 Resp: 1248885
Ion Ratio Lower Upper
117 100
82 58.1 42.4 63.6
119 31.8 25.4 38.2



#71
Bromoform
Concen: 0.508 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.270 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion:173 Resp: 3792
Ion Ratio Lower Upper
173 100
175 709.2 24.2 72.6#
254 0.0 0.0 0.0

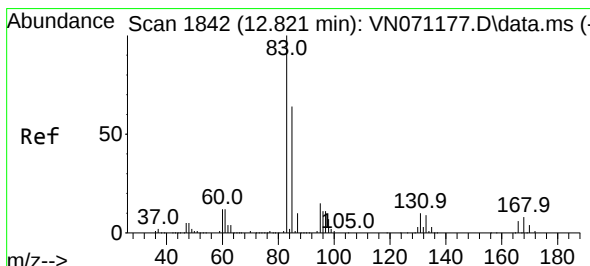
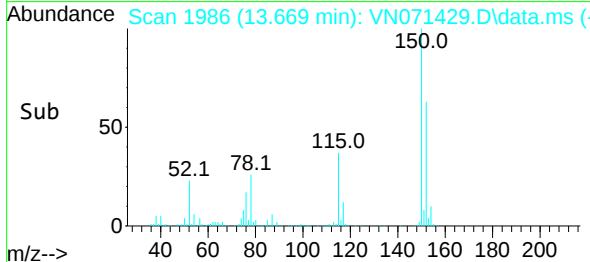
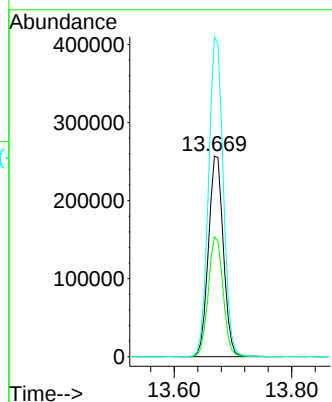
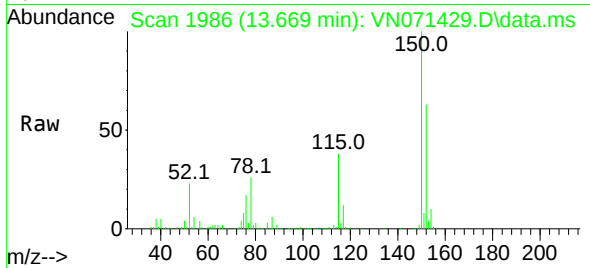




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.669 min Scan# 1986
 Delta R.T. 0.001 min
 Lab File: VN071429.D
 Acq: 21 Mar 2022 19:41

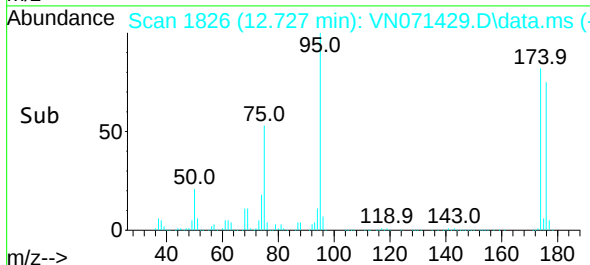
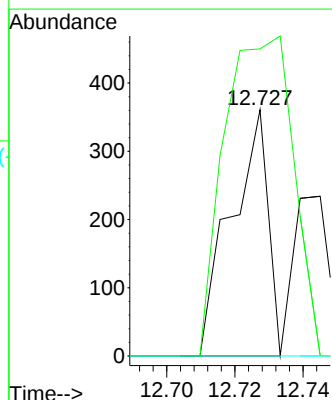
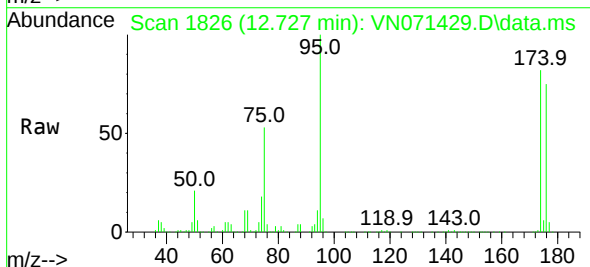
Instrument :
 MSVOA_N
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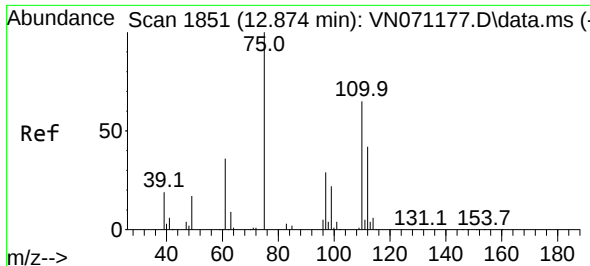
Tgt Ion:152 Resp: 451785
 Ion Ratio Lower Upper
 152 100
 115 59.4 27.5 82.5
 150 158.0 0.0 344.4



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.727 min Scan# 1826
 Delta R.T. -0.094 min
 Lab File: VN071429.D
 Acq: 21 Mar 2022 19:41

Tgt Ion: 83 Resp: 271
 Ion Ratio Lower Upper
 83 100
 131 242.8 5.5 16.5#
 85 0.0 32.4 97.2#

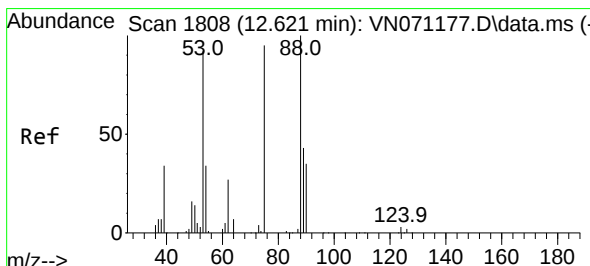
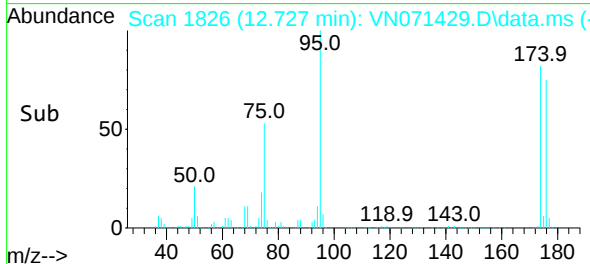
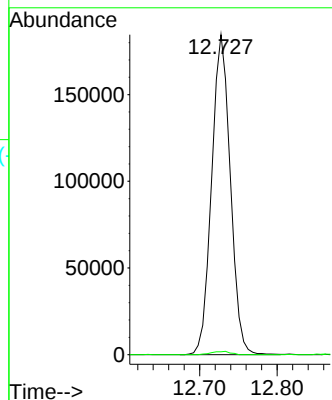
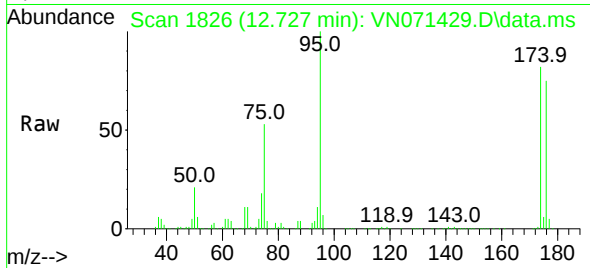




#76
1,2,3-Trichloropropane
Concen: 26.968 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

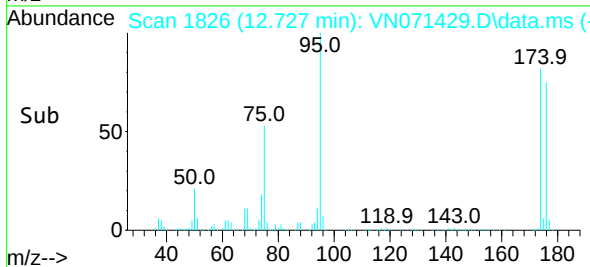
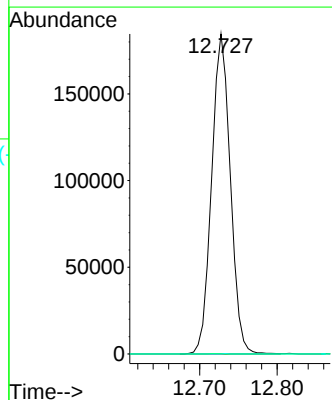
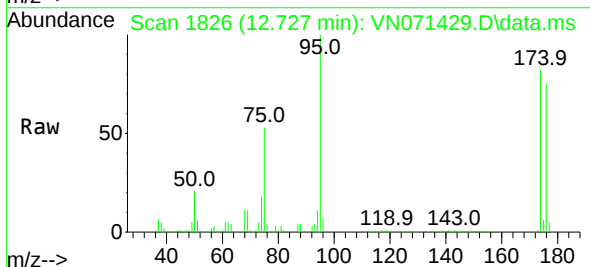
Instrument :
MSVOA_N
ClientSampleId :
VACLOT-SOIL-2

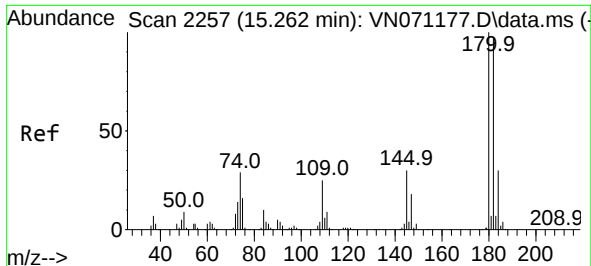
Tgt Ion: 75 Resp: 309533
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.063 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071429.D
Acq: 21 Mar 2022 19:41

Tgt Ion: 75 Resp: 309533
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

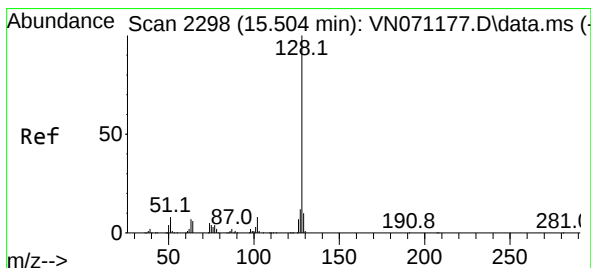
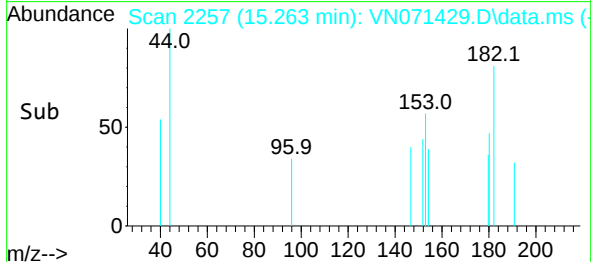
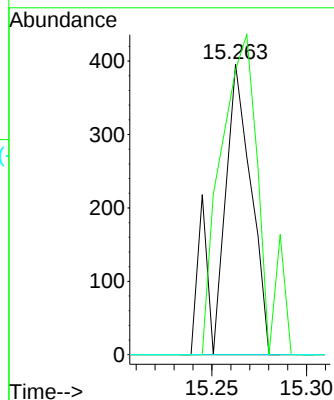
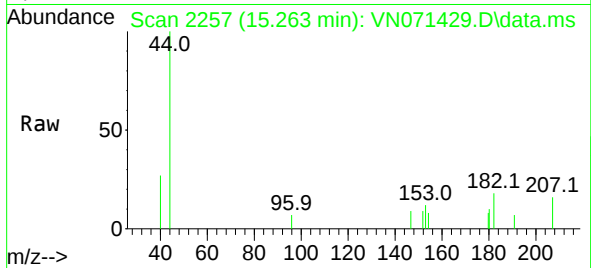




#93
 1,2,4-Trichlorobenzene
 Concen: 3.045 ug/l
 RT: 15.263 min Scan# 21
 Delta R.T. 0.001 min
 Lab File: VN071429.D
 Acq: 21 Mar 2022 19:41

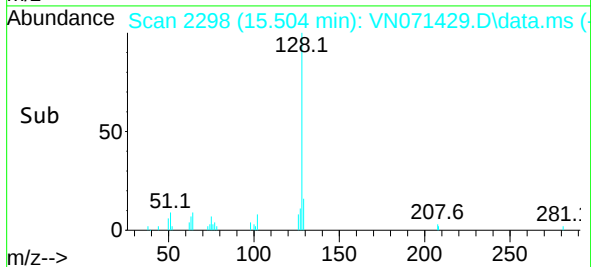
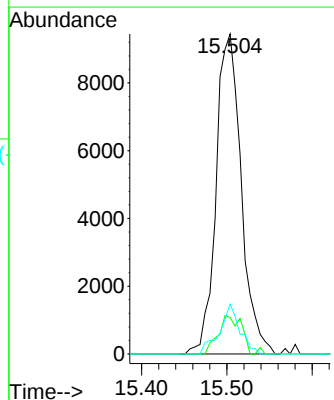
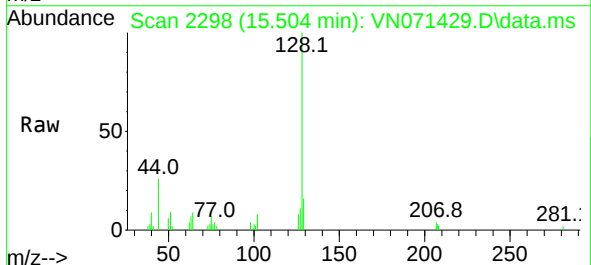
Instrument :
 MSVOA_N
 ClientSampleId :
 VACLOT-SOIL-2

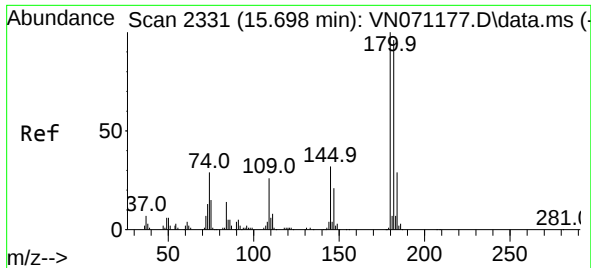
Tgt Ion:180 Resp: 440
 Ion Ratio Lower Upper
 180 100
 182 141.8 48.3 144.9
 145 0.0 14.5 43.5#



#95
 Naphthalene
 Concen: 5.907 ug/l
 RT: 15.504 min Scan# 2298
 Delta R.T. -0.000 min
 Lab File: VN071429.D
 Acq: 21 Mar 2022 19:41

Tgt Ion:128 Resp: 19351
 Ion Ratio Lower Upper
 128 100
 127 11.0 10.5 15.7
 129 12.5 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 2.793 ug/l
 RT: 15.686 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VN071429.D
 Acq: 21 Mar 2022 19:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VACLOT-SOIL-2

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.2#
145	0.0	15.0	45.1#

