

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061223\
 Data File : VN078167.D
 Acq On : 12 Jun 2023 15:30
 Operator : JC\MD
 Sample : 03114-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MARION-SOIL-0609

Quant Time: Jun 13 01:33:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

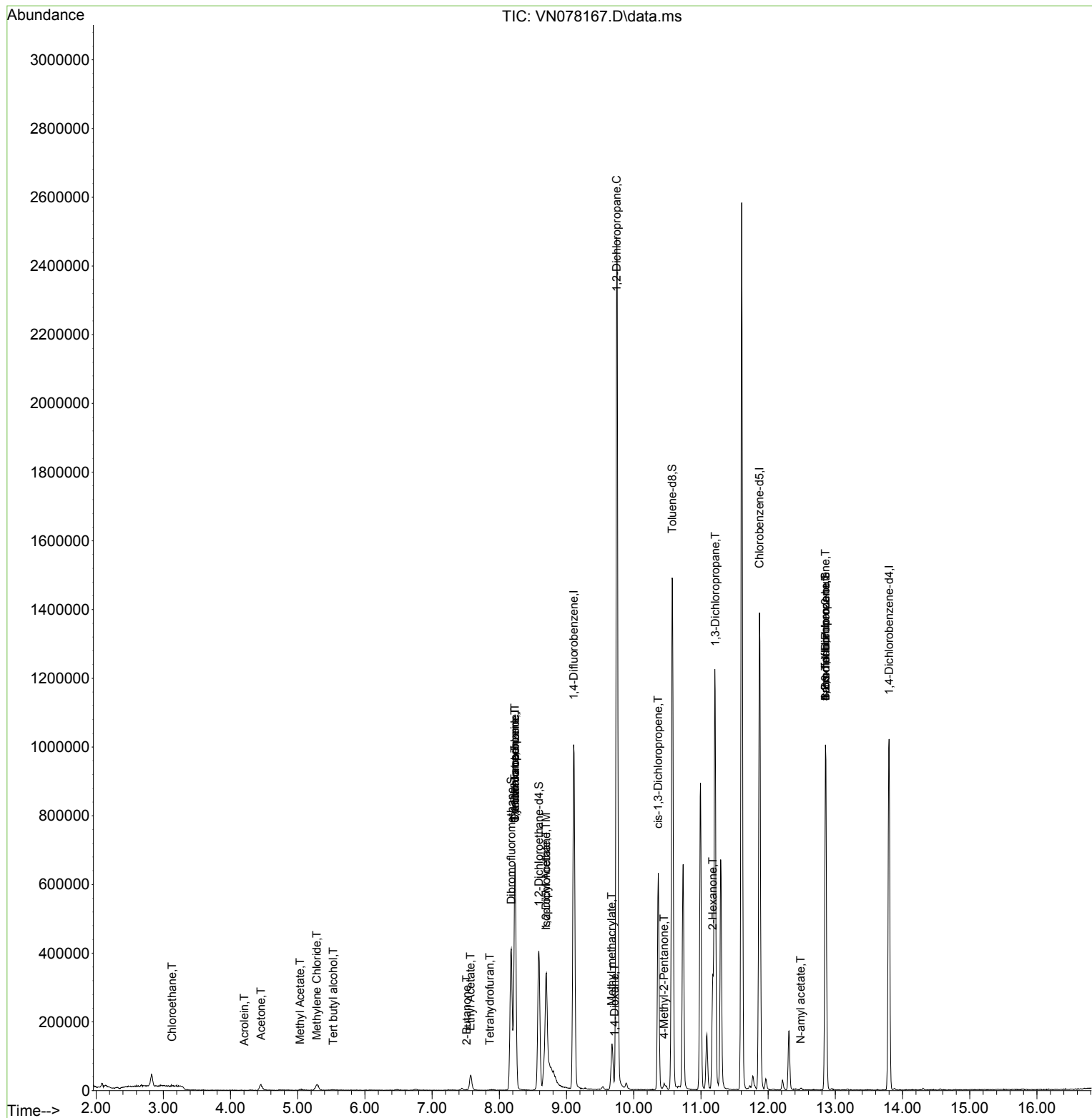
Internal Standards						
1) Pentafluorobenzene	8.236	168	474768	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	907413	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	833028	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	289166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	340018	53.714	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.420%			
35) Dibromofluoromethane	8.177	113	301263	52.508	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.020%			
50) Toluene-d8	10.571	98	1082571	48.944	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.880%			
62) 4-Bromofluorobenzene	12.853	95	355055	51.636	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.280%			
Target Compounds					Qvalue	
3) Chloromethane	2.377	50	866	Below Cal	#	42
6) Chloroethane	3.130	64	1265	0.264	ug/l #	85
11) Tert butyl alcohol	5.530	59	673	0.770	ug/l #	72
13) Acrolein	4.206	56	252	0.262	ug/l #	51
16) Acetone	4.453	43	32292	17.723	ug/l #	84
18) Methyl Acetate	5.036	43	2603	0.310	ug/l	98
20) Methylene Chloride	5.283	84	13415	2.228	ug/l #	91
25) 2-Butanone	7.512	43	2301	0.821	ug/l	90
29) Tetrahydrofuran	7.859	42	1079	0.576	ug/l #	24
31) Cyclohexane	8.230	56	11556	1.423	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	40435	4.913	ug/l #	47
37) Ethyl Acetate	7.571	43	64435	10.022	ug/l	97
38) Carbon Tetrachloride	8.230	117	53091	6.110	ug/l #	15
42) 1,2-Dichloroethane	8.694	62	2986	0.354	ug/l #	73
43) Isopropyl Acetate	8.694	43	490822	39.920	ug/l #	71
45) 1,2-Dichloropropane	9.747	63	3778	0.618	ug/l #	45
48) Methyl methacrylate	9.671	41	7810	1.514	ug/l #	34
49) 1,4-Dioxane	9.712	88	116	1.070	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	16469	2.544	ug/l #	73
54) cis-1,3-Dichloropropene	10.365	75	116971	12.149	ug/l #	70
57) 1,3-Dichloropropane	11.212	76	13921	1.405	ug/l #	42
59) 2-Hexanone	11.177	43	246099	54.590	ug/l #	19
71) Bromoform	12.853	173	2921	0.690	ug/l #	1
74) N-amyl acetate	12.482	43	3742	0.416	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.876	83	127	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	191894	28.071	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	191894	86.243	ug/l #	15

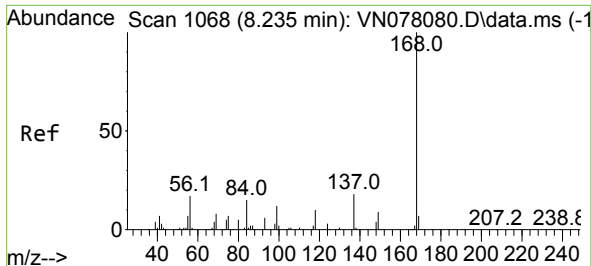
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061223\
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Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration

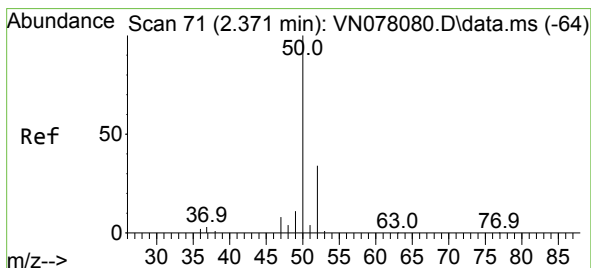
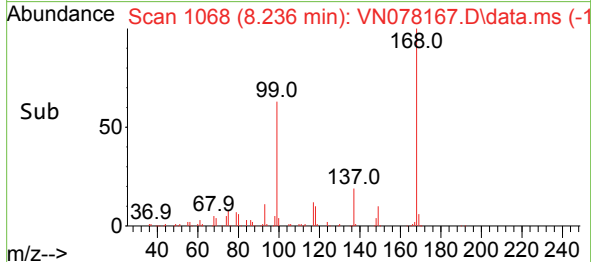
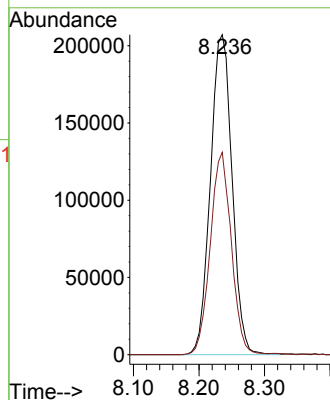
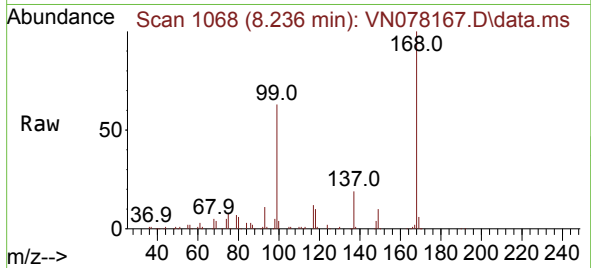




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.001 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

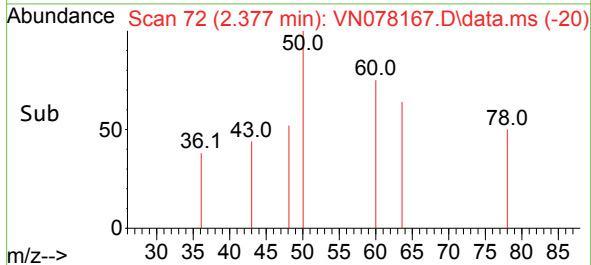
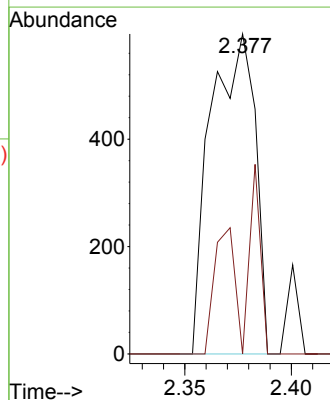
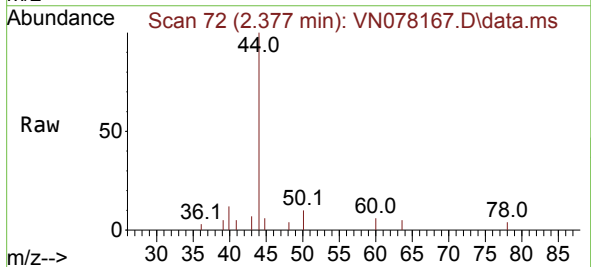
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

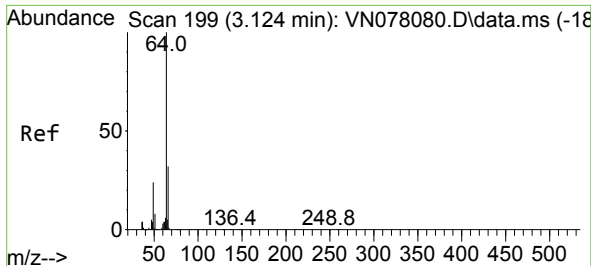
Tgt Ion:168 Resp: 474768
Ion Ratio Lower Upper
168 100
99 63.3 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 50 Resp: 866
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

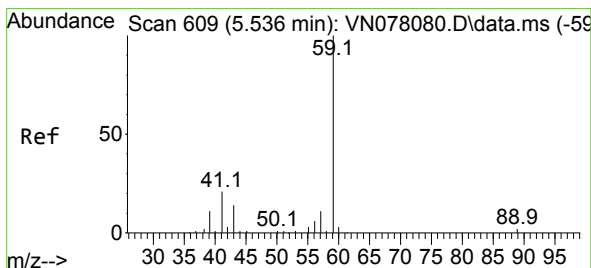
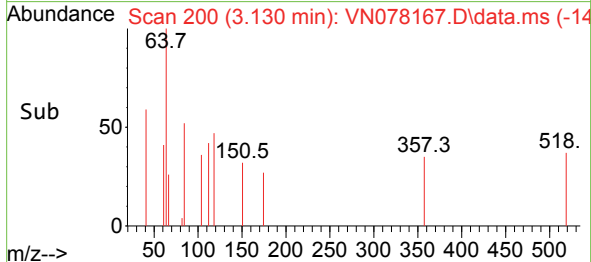
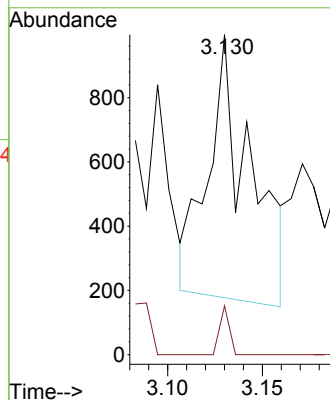
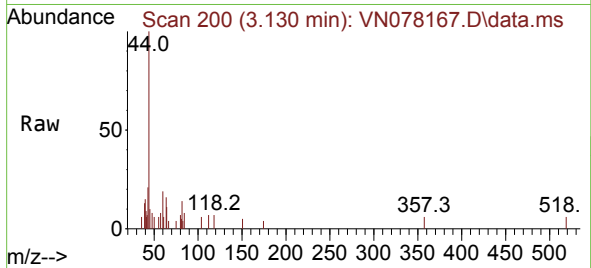




#6
Chloroethane
Concen: 0.264 ug/l
RT: 3.130 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

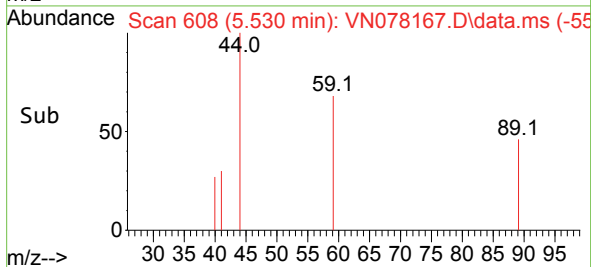
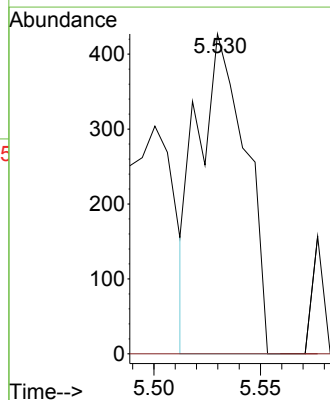
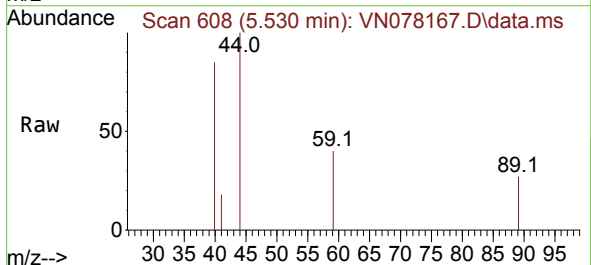
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

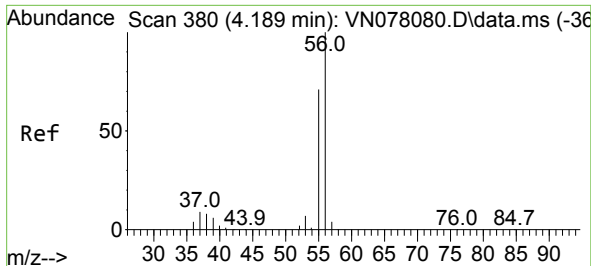
Tgt Ion: 64 Resp: 1265
Ion Ratio Lower Upper
64 100
66 23.4 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.770 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 59 Resp: 673
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

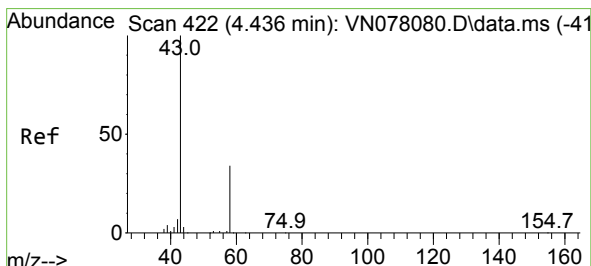
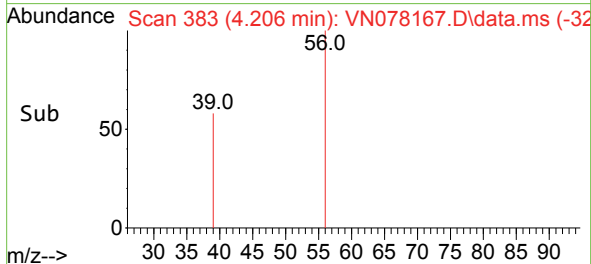
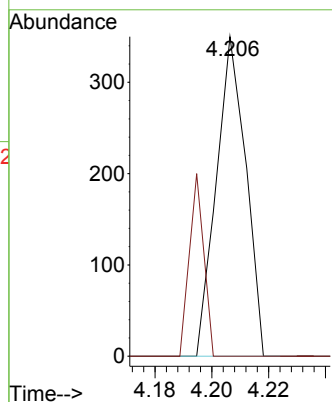
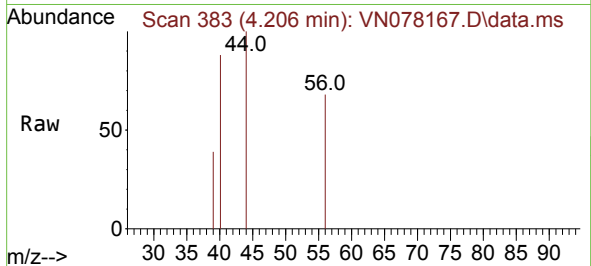




#13
Acrolein
Concen: 0.262 ug/l
RT: 4.206 min Scan# 383
Delta R.T. 0.018 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

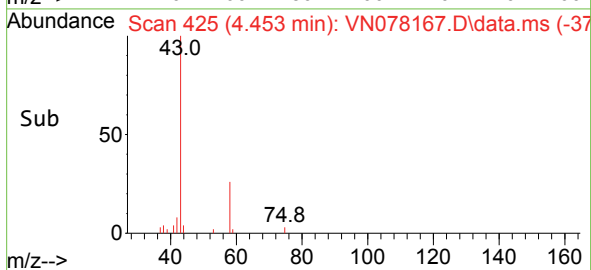
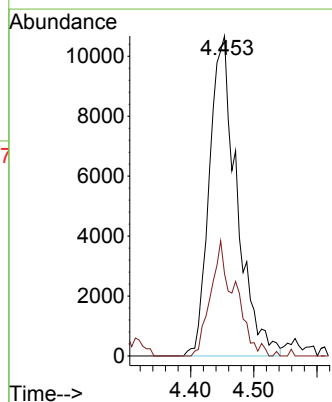
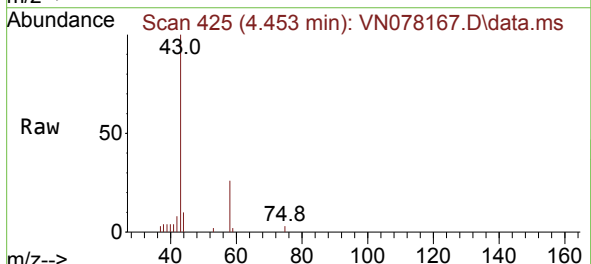
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

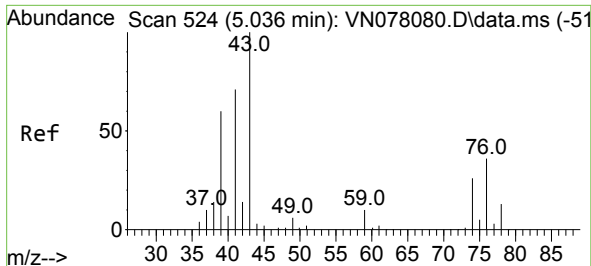
Tgt Ion: 56 Resp: 252
Ion Ratio Lower Upper
56 100
55 28.2 54.5 81.7#



#16
Acetone
Concen: 17.723 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.018 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 43 Resp: 32292
Ion Ratio Lower Upper
43 100
58 25.7 28.0 42.0#

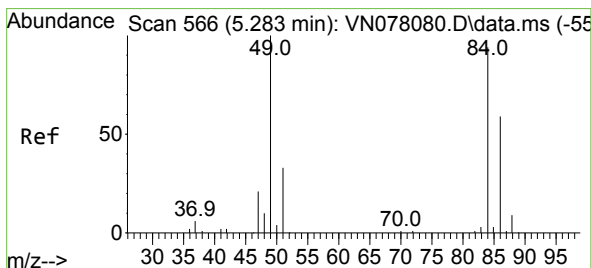
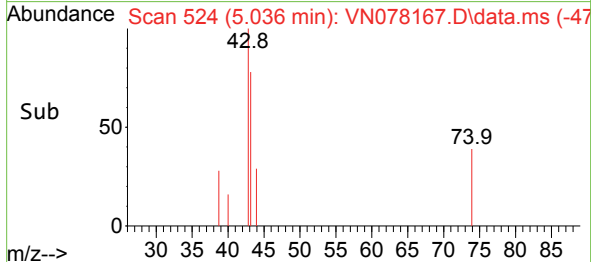
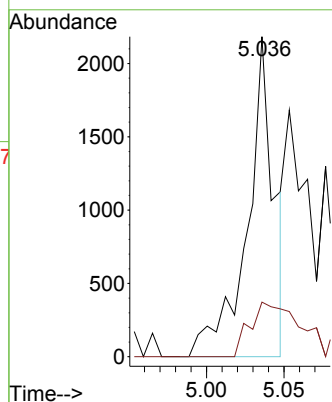
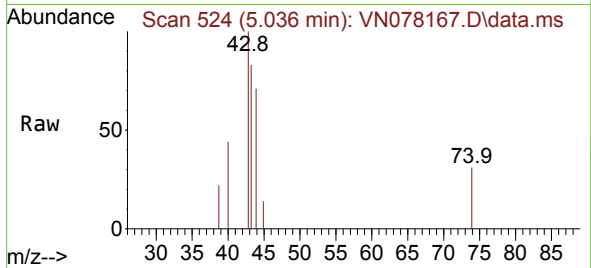




#18
Methyl Acetate
Concen: 0.310 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

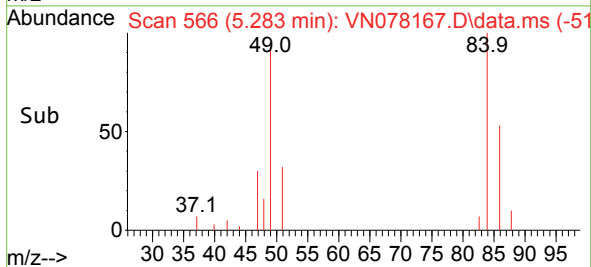
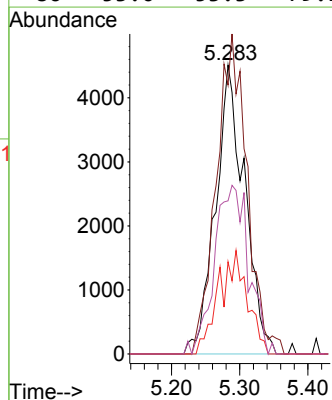
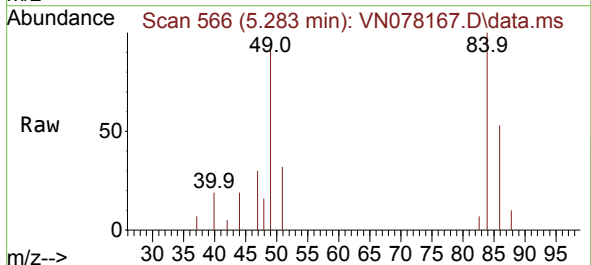
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

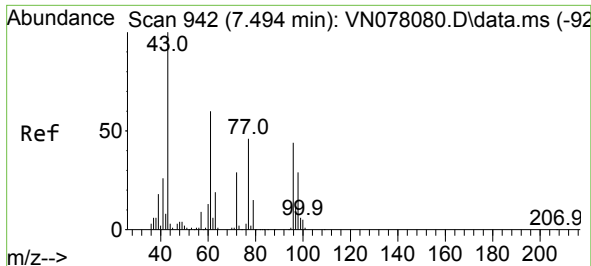
Tgt Ion: 43 Resp: 2603
Ion Ratio Lower Upper
43 100
74 31.7 26.2 39.4



#20
Methylene Chloride
Concen: 2.228 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 84 Resp: 13415
Ion Ratio Lower Upper
84 100
49 93.1 79.7 119.5
51 31.9 25.2 37.8
86 53.0 53.3 79.9#

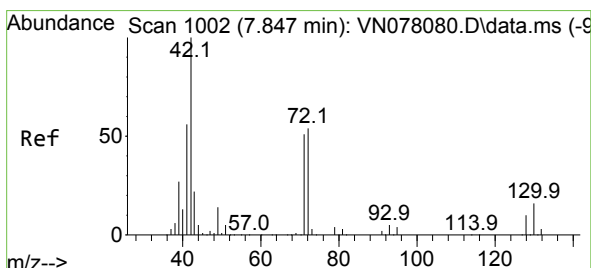
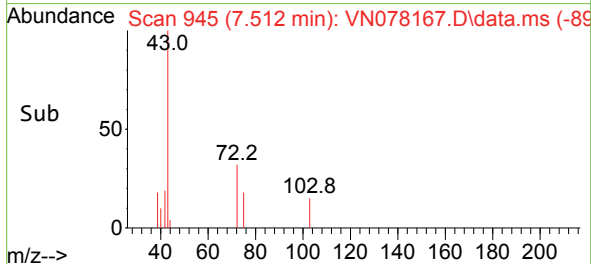
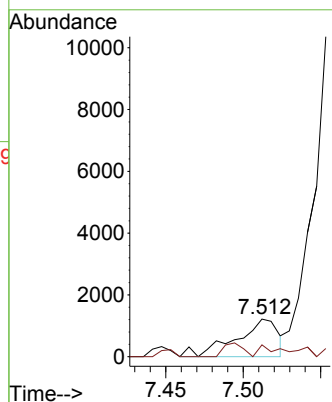
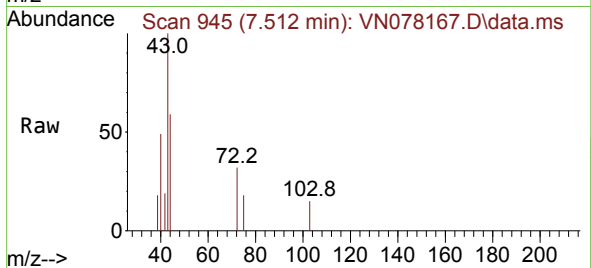




#25
2-Butanone
Concen: 0.821 ug/l
RT: 7.512 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

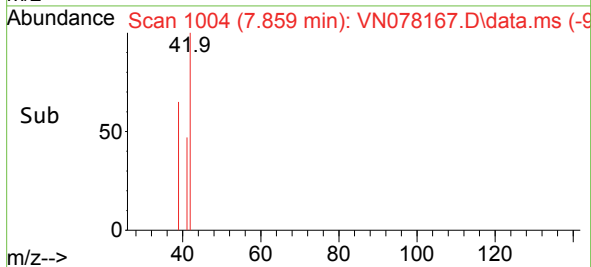
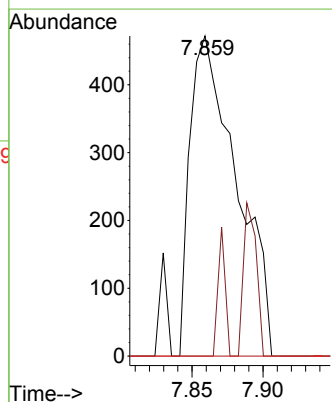
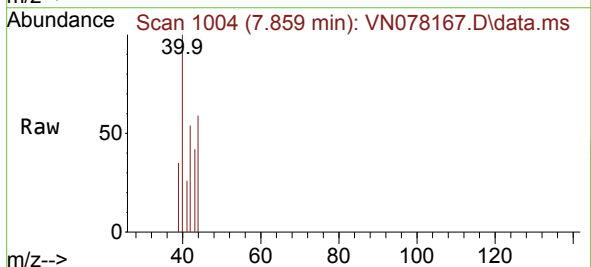
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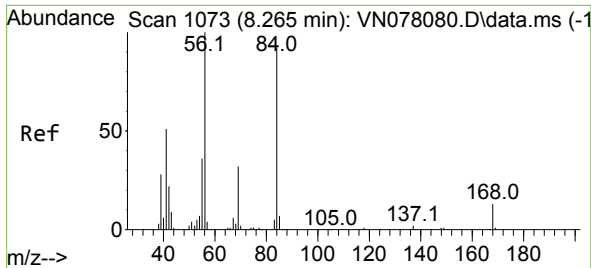
Tgt Ion: 43 Resp: 2301
Ion Ratio Lower Upper
43 100
72 31.6 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.576 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 42 Resp: 1079
Ion Ratio Lower Upper
42 100
72 6.2 49.8 74.6#
71 0.0 47.4 71.2#

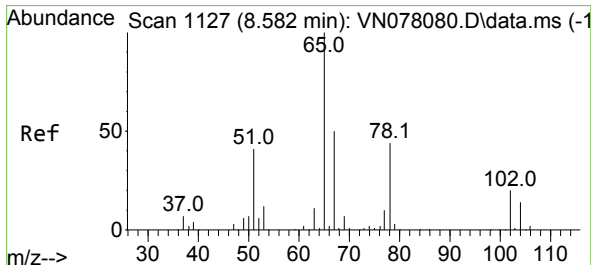
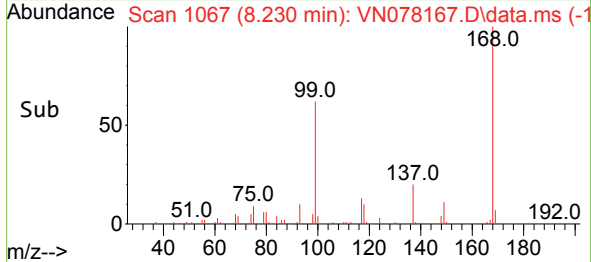
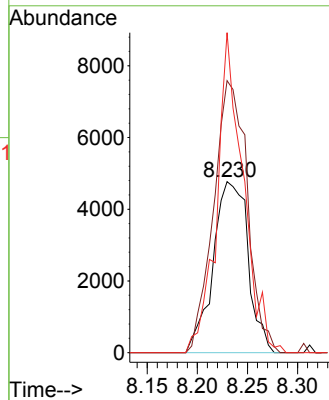
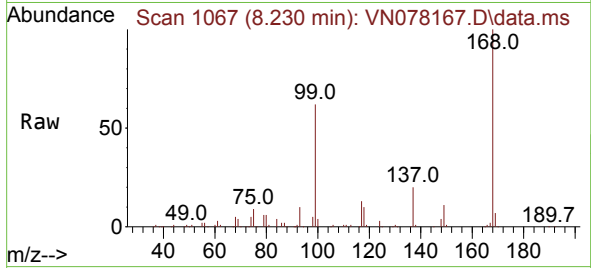




#31
Cyclohexane
Concen: 1.423 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

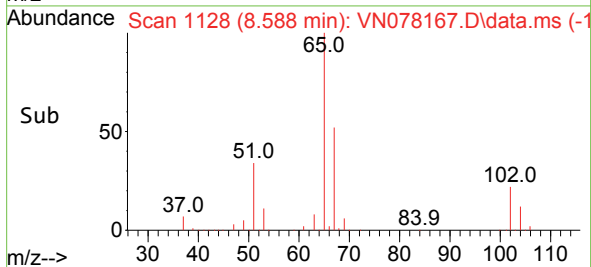
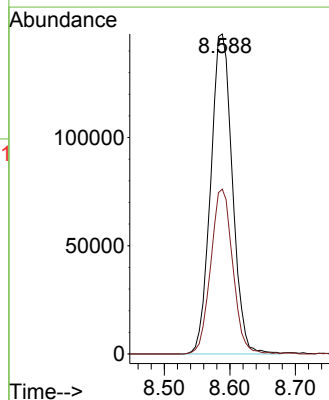
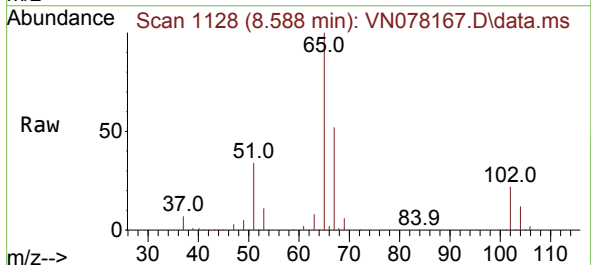
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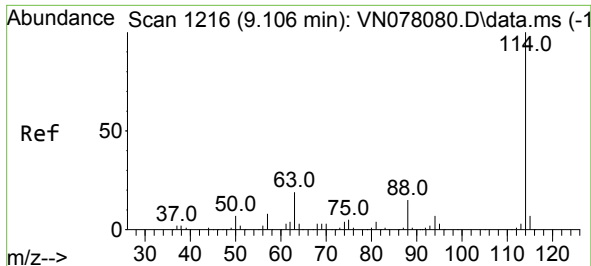
Tgt Ion: 56 Resp: 11556
Ion Ratio Lower Upper
56 100
69 159.0 26.8 40.2#
84 187.0 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 53.714 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 65 Resp: 340018
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6

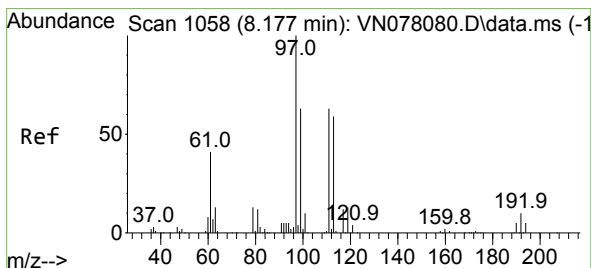
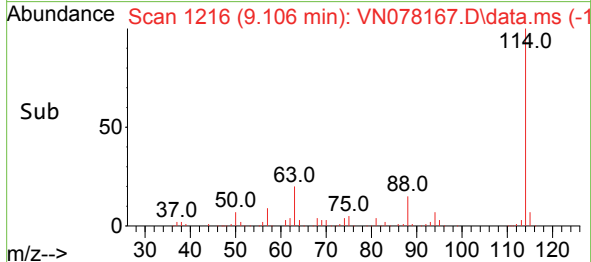
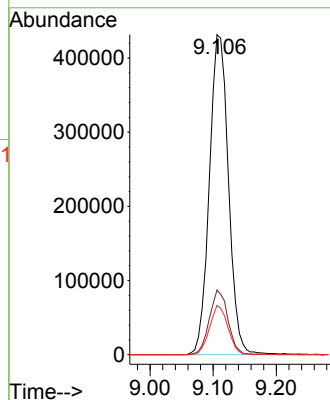
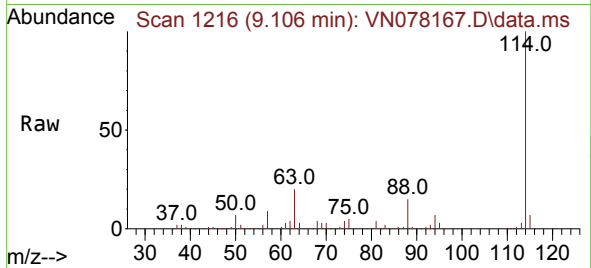




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

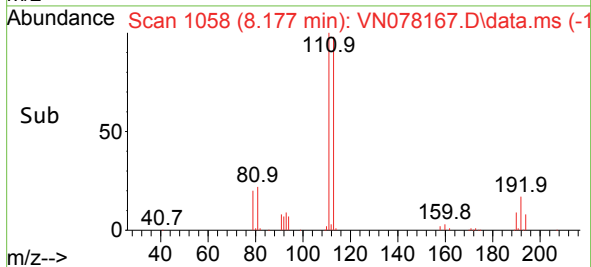
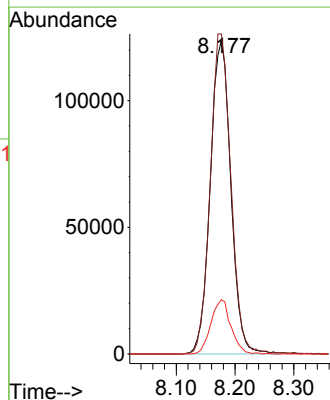
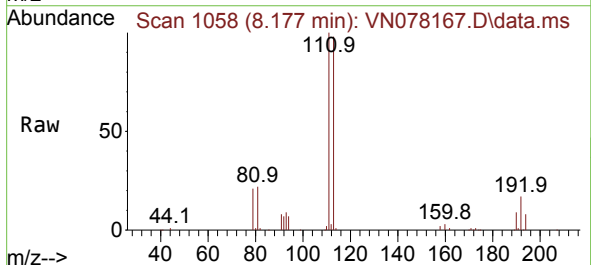
Instrument :
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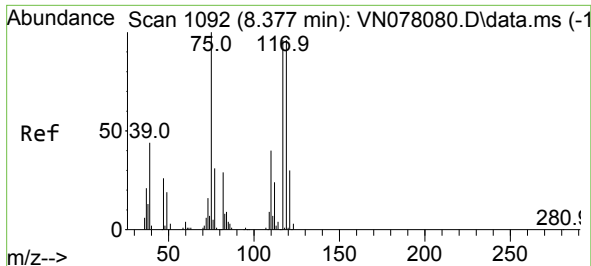
Tgt Ion:114 Resp: 907413
Ion Ratio Lower Upper
114 100
63 20.2 0.0 36.4
88 15.4 0.0 30.6



#35
Dibromofluoromethane
Concen: 52.508 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion:113 Resp: 301263
Ion Ratio Lower Upper
113 100
111 102.1 82.6 123.8
192 16.8 12.7 19.1

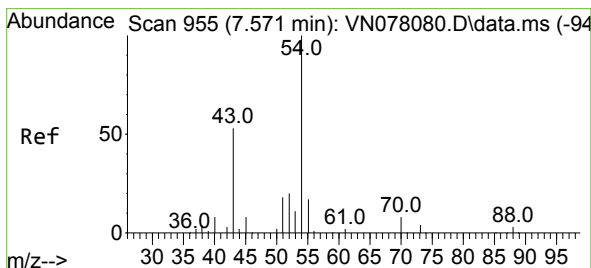
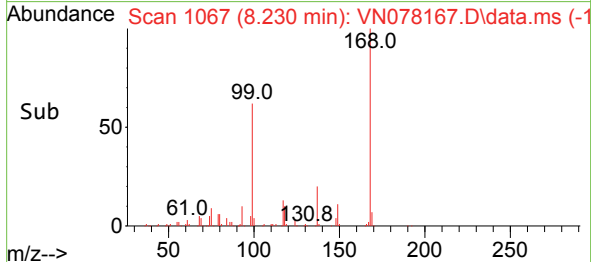
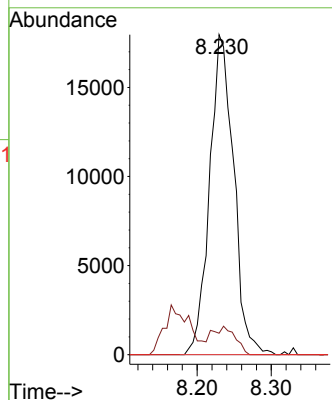
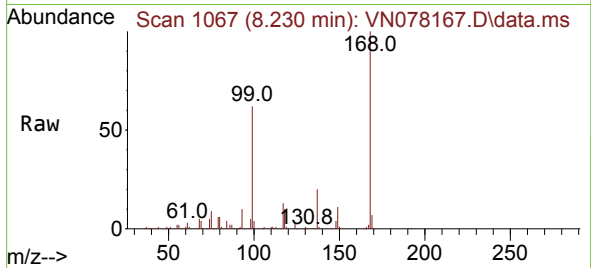




#36
1,1-Dichloropropene
Concen: 4.913 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

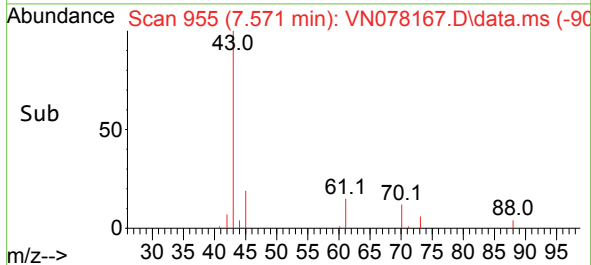
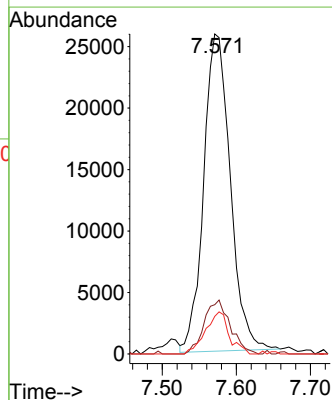
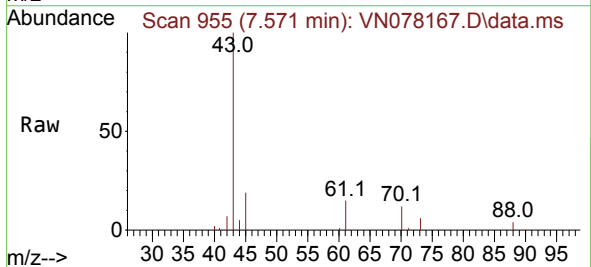
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

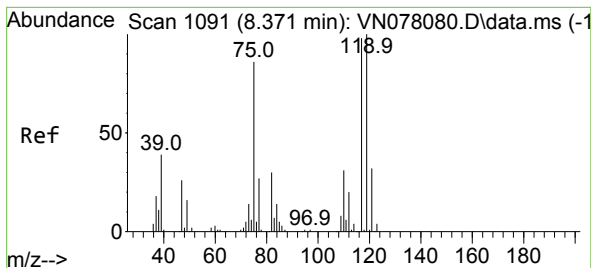
Tgt Ion: 75 Resp: 40435
Ion Ratio Lower Upper
75 100
110 8.5 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.022 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 43 Resp: 64435
Ion Ratio Lower Upper
43 100
61 16.7 13.2 19.8
70 11.8 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.110 ug/l

RT: 8.230 min Scan# 110

Delta R.T. -0.141 min

Lab File: VN078167.D

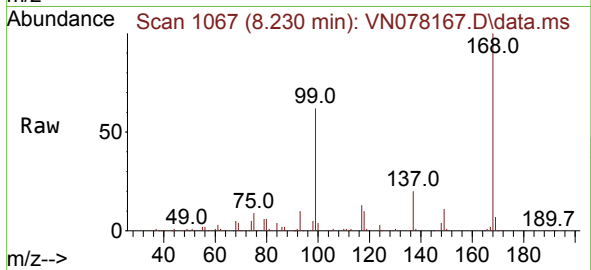
Acq: 12 Jun 2023 15:30

Instrument :

MSVOA_N

ClientSampleId :

MARION-SOIL-0609



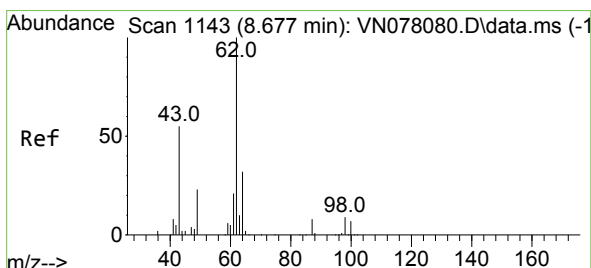
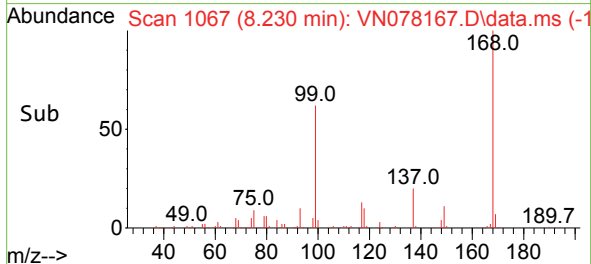
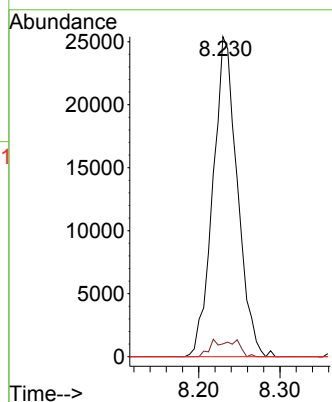
Tgt Ion:117 Resp: 53091

Ion Ratio Lower Upper

117 100

119 4.0 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.354 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN078167.D

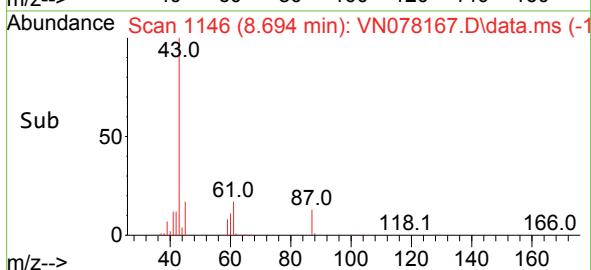
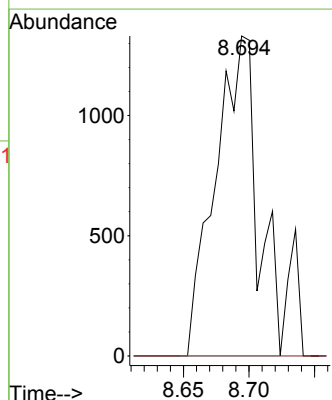
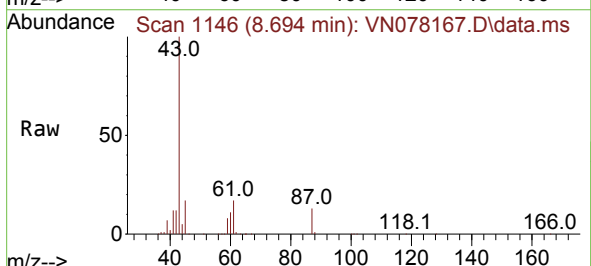
Acq: 12 Jun 2023 15:30

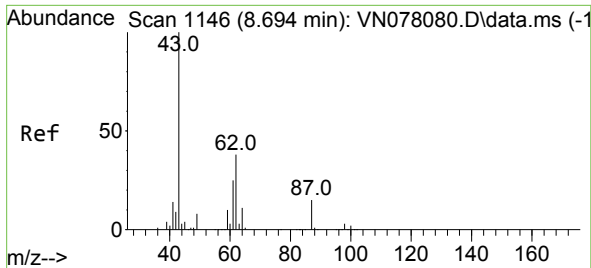
Tgt Ion: 62 Resp: 2986

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

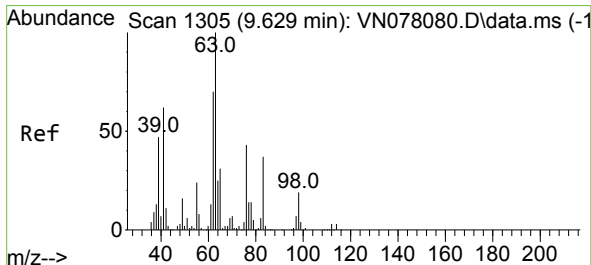
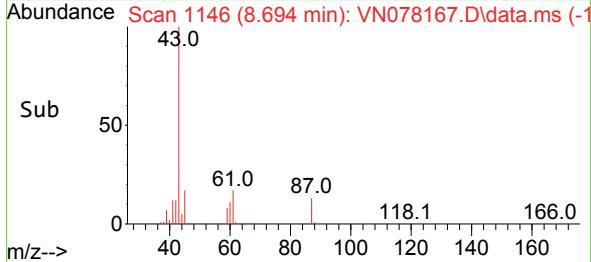
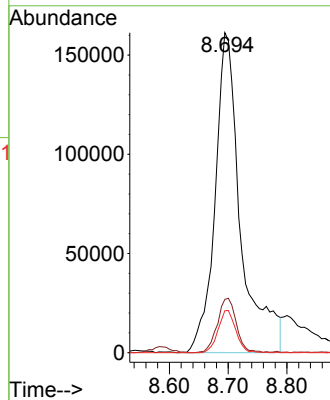
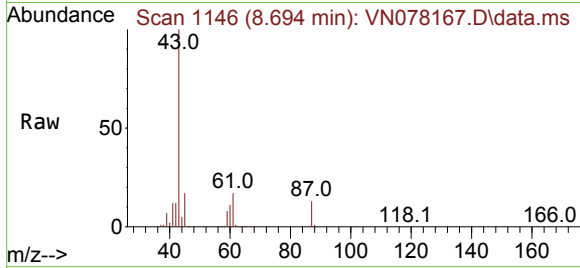




#43
Isopropyl Acetate
Concen: 39.920 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

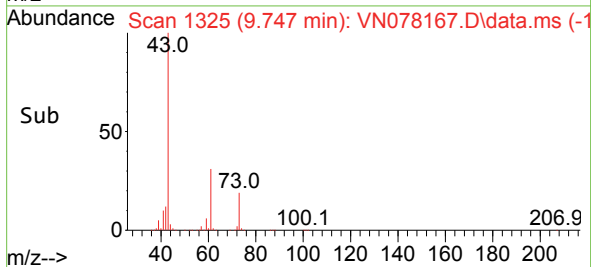
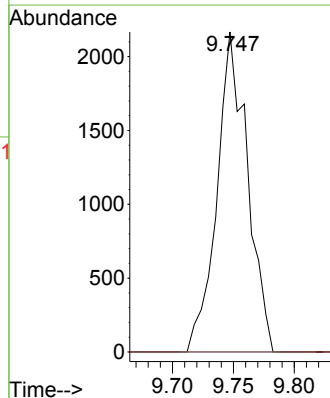
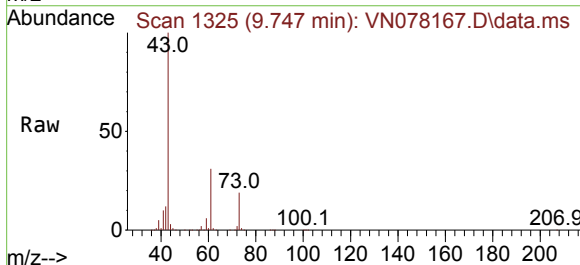
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

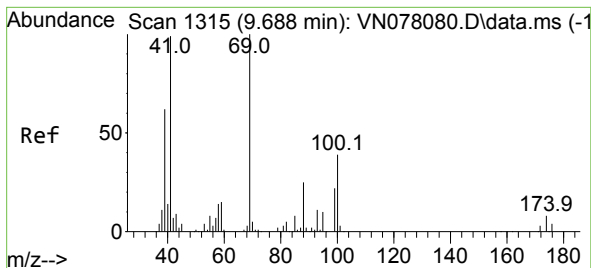
Tgt Ion: 43 Resp: 490822
Ion Ratio Lower Upper
43 100
61 12.6 24.7 37.1#
87 9.0 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.618 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.118 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 63 Resp: 3778
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 1.514 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.018 min

Lab File: VN078167.D

Acq: 12 Jun 2023 15:30

Instrument :

MSVOA_N

ClientSampleId :

MARION-SOIL-0609

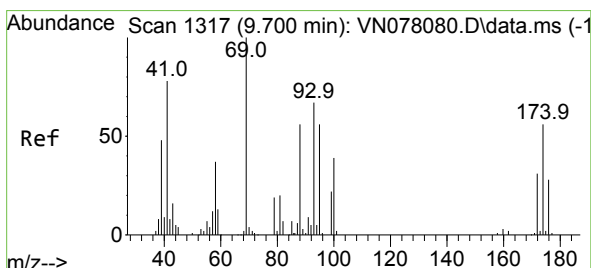
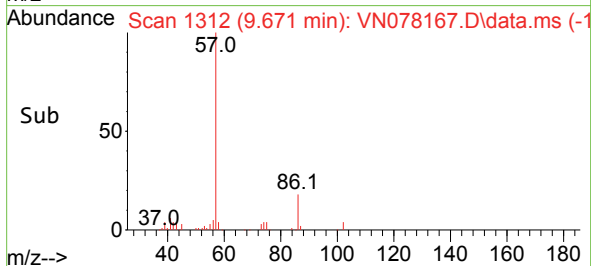
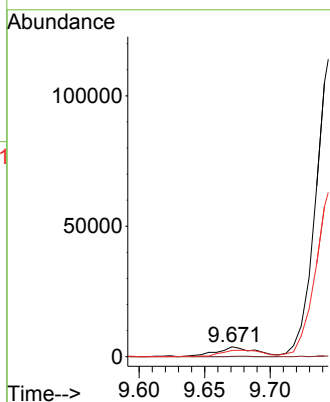
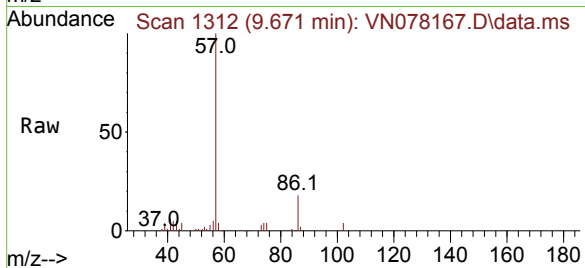
Tgt Ion: 41 Resp: 7810

Ion Ratio Lower Upper

41 100

69 2.2 90.4 135.6#

39 71.9 54.6 81.8



#49

1,4-Dioxane

Concen: 1.070 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.012 min

Lab File: VN078167.D

Acq: 12 Jun 2023 15:30

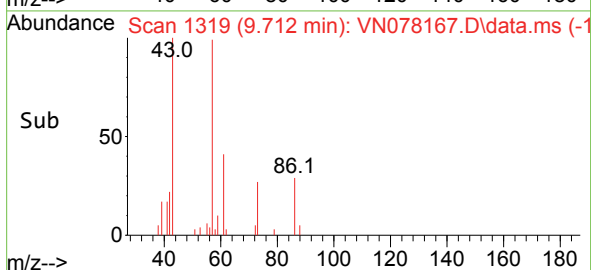
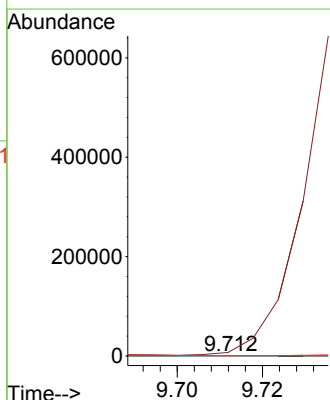
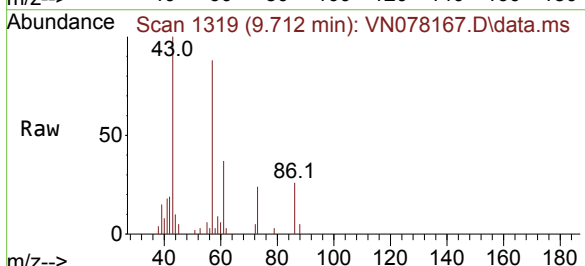
Tgt Ion: 88 Resp: 116

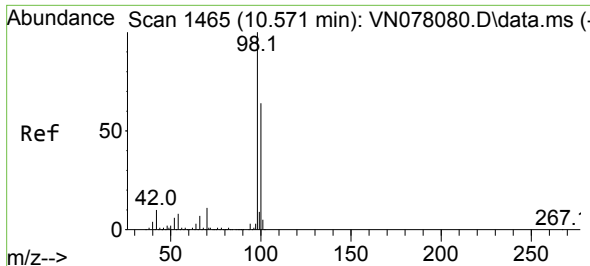
Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#

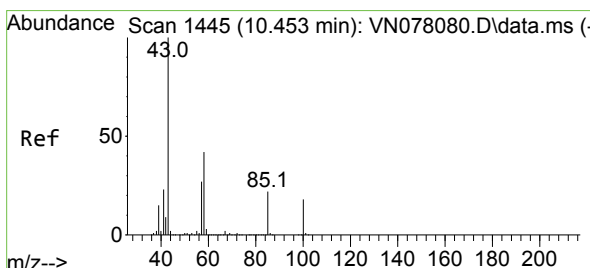
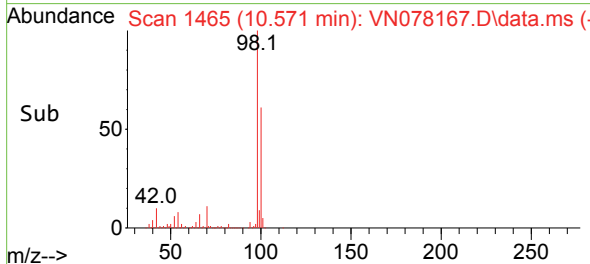
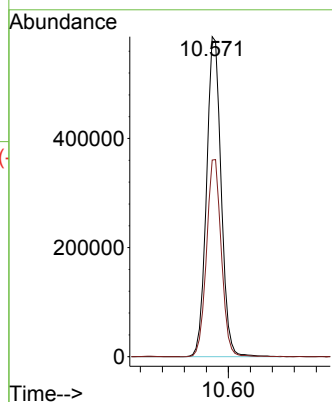
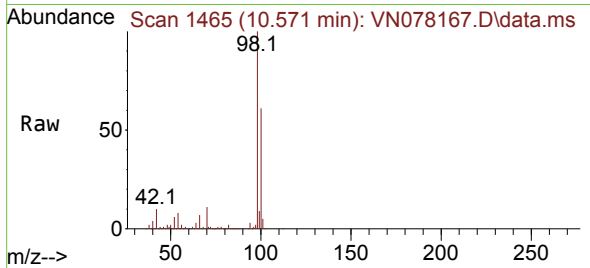




#50
Toluene-d8
Concen: 48.944 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

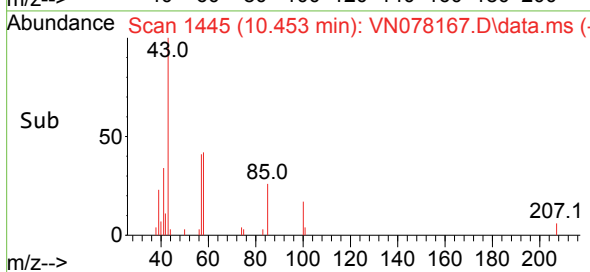
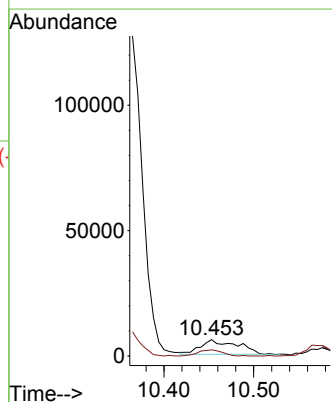
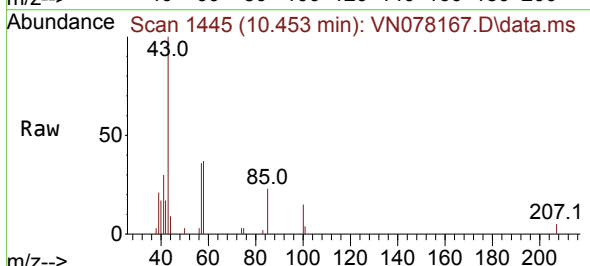
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

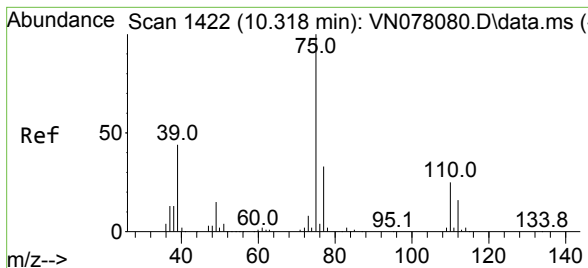
Tgt Ion: 98 Resp: 1082571
Ion Ratio Lower Upper
98 100
100 62.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.544 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 43 Resp: 16469
Ion Ratio Lower Upper
43 100
58 27.8 36.6 54.8#

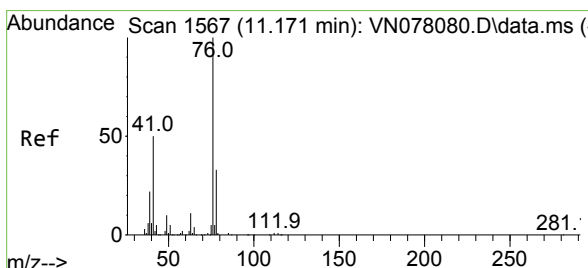
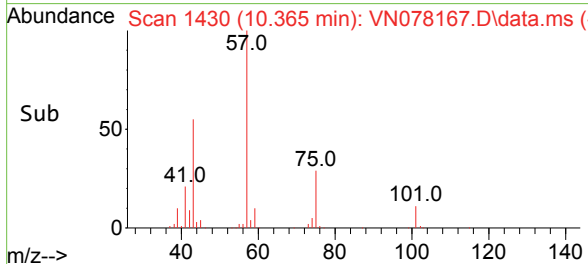
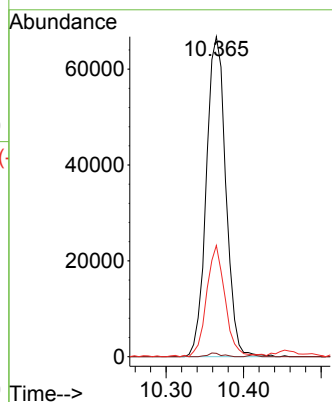
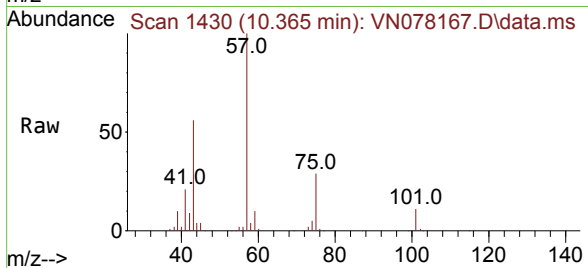




#54
 cis-1,3-Dichloropropene
 Concen: 12.149 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078167.D
 Acq: 12 Jun 2023 15:30

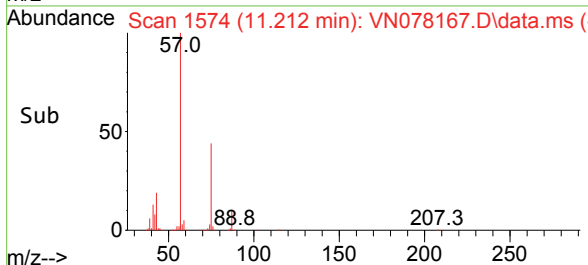
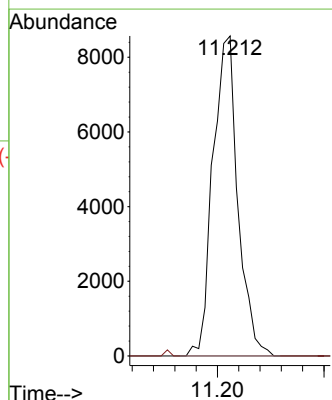
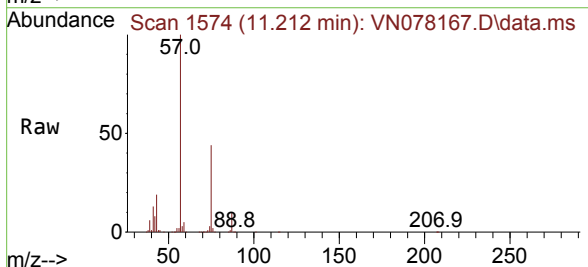
Instrument :
 MSVOA_N
 ClientSampleId :
 MARION-SOIL-0609

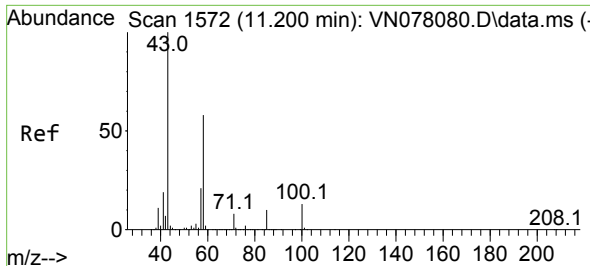
Tgt Ion: 75 Resp: 116971
 Ion Ratio Lower Upper
 75 100
 77 1.0 26.1 39.1#
 39 34.8 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.405 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.041 min
 Lab File: VN078167.D
 Acq: 12 Jun 2023 15:30

Tgt Ion: 76 Resp: 13921
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

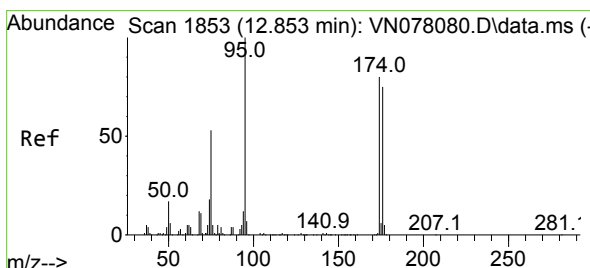
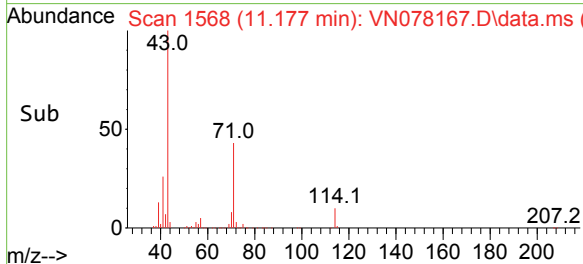
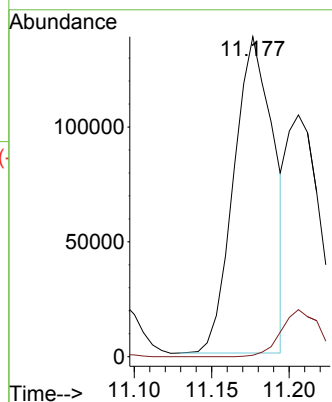
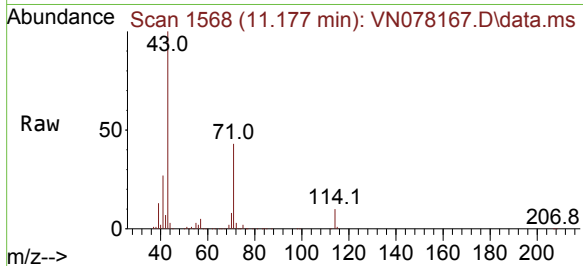




#59
2-Hexanone
Concen: 54.590 ug/l
RT: 11.177 min Scan# 11177
Delta R.T. -0.023 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

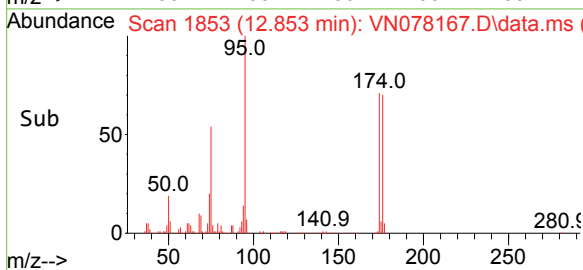
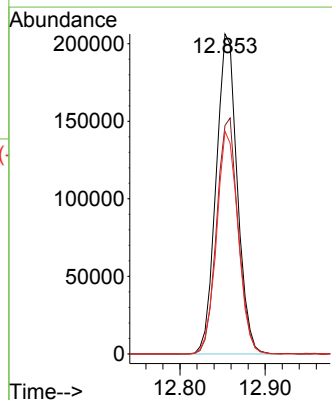
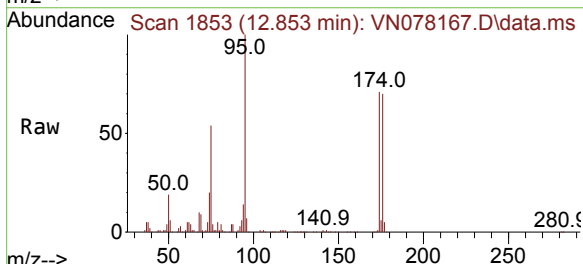
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

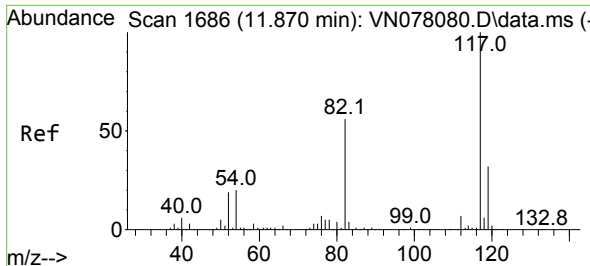
Tgt Ion: 43 Resp: 246099
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.636 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion: 95 Resp: 355055
Ion Ratio Lower Upper
95 100
174 74.9 0.0 143.8
176 70.8 0.0 135.8

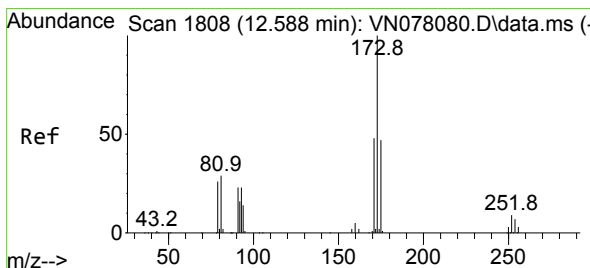
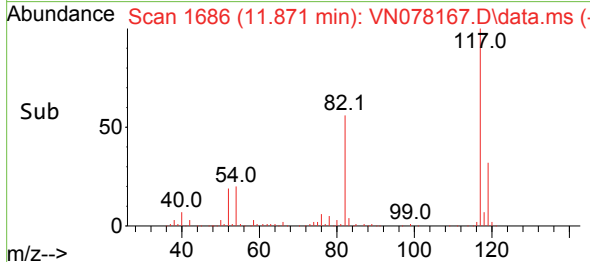
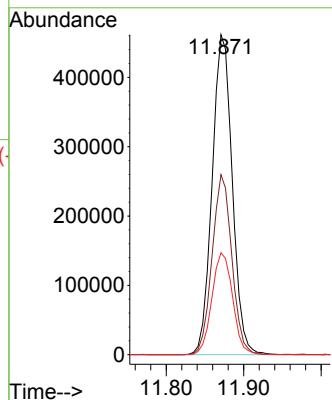
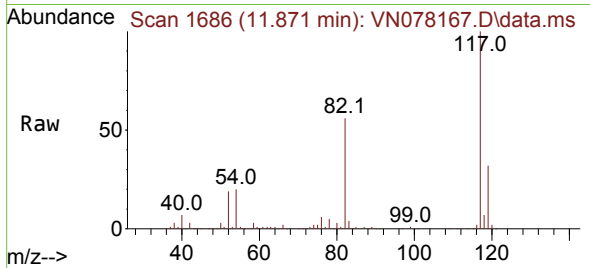




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11853
Delta R.T. 0.000 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

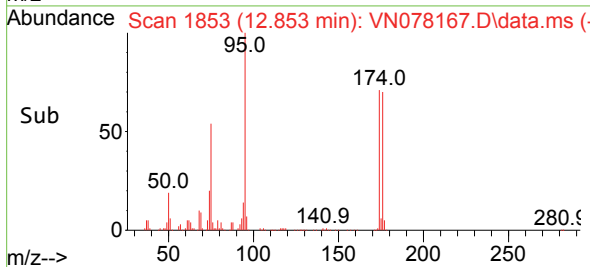
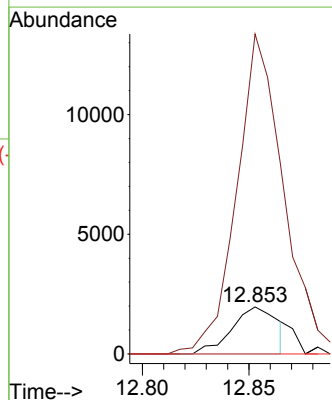
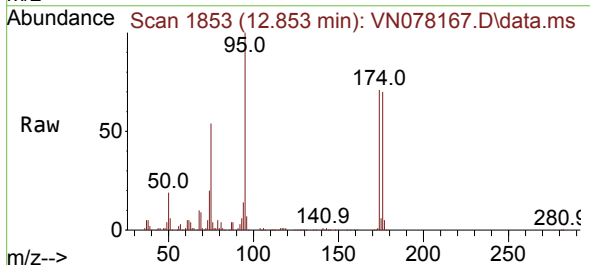
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

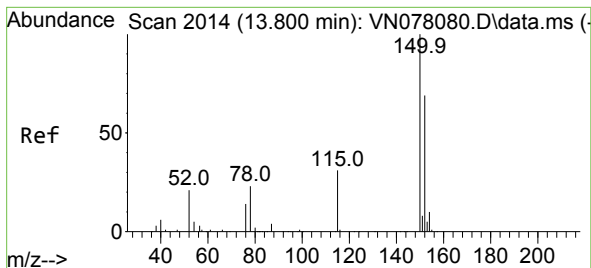
Tgt Ion:117 Resp: 833028
Ion Ratio Lower Upper
117 100
82 56.2 44.0 66.0
119 31.8 25.6 38.4



#71
Bromoform
Concen: 0.690 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.265 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

Tgt Ion:173 Resp: 2921
Ion Ratio Lower Upper
173 100
175 596.4 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN078167.D

Acq: 12 Jun 2023 15:30

Instrument :

MSVOA_N

ClientSampleId :

MARION-SOIL-0609

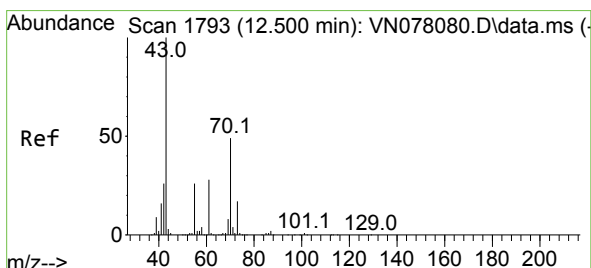
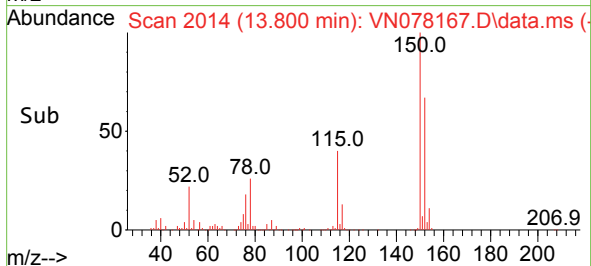
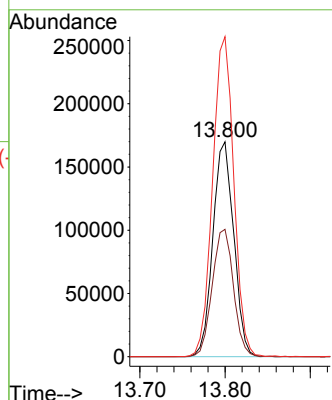
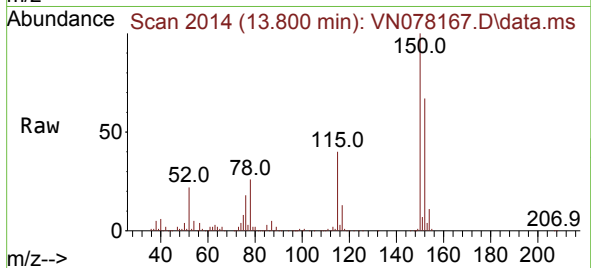
Tgt Ion:152 Resp: 289166

Ion Ratio Lower Upper

152 100

115 60.2 32.3 96.8

150 150.8 0.0 355.8



#74

N-ethyl acetate

Concen: 0.416 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.018 min

Lab File: VN078167.D

Acq: 12 Jun 2023 15:30

Tgt Ion: 43 Resp: 3742

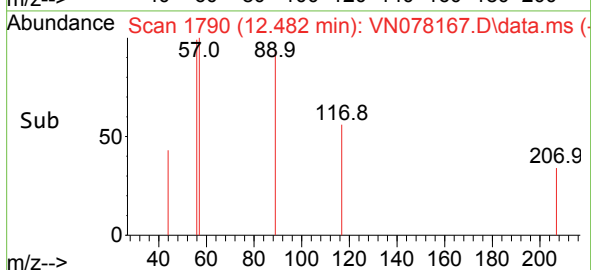
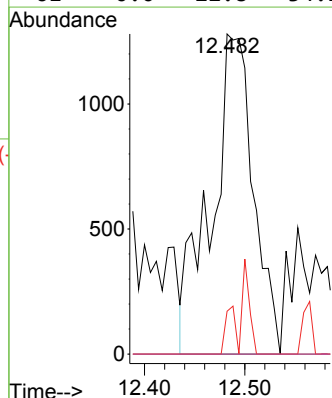
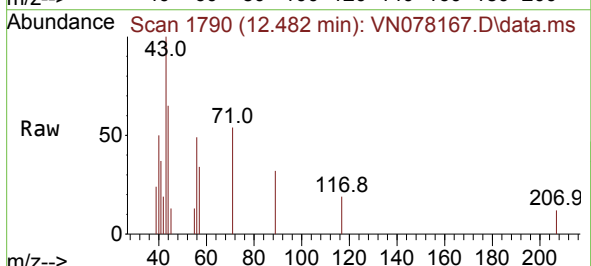
Ion Ratio Lower Upper

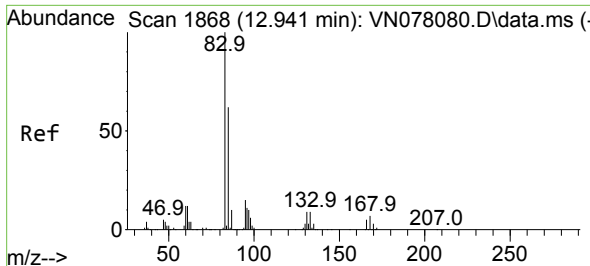
43 100

70 0.0 43.4 65.2#

55 3.4 21.4 32.0#

61 0.0 22.8 34.2#

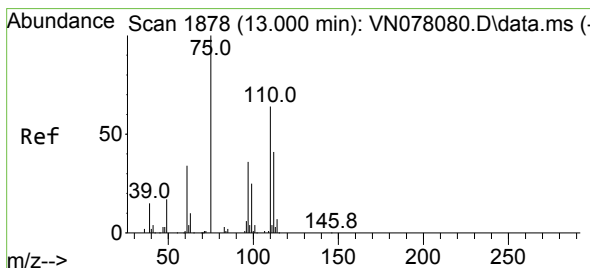
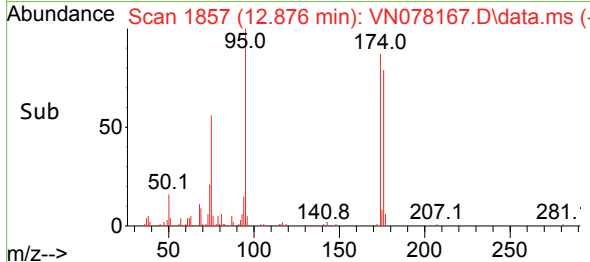
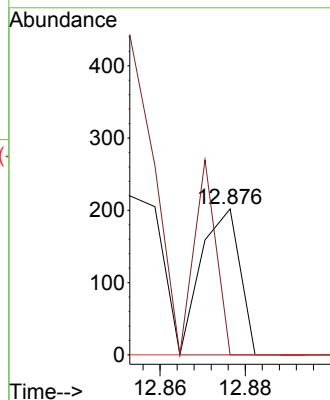
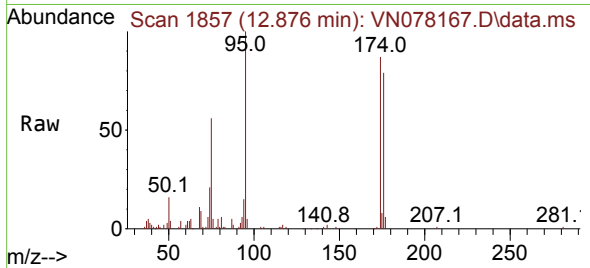




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.876 min Scan# 1857
Delta R.T. -0.065 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

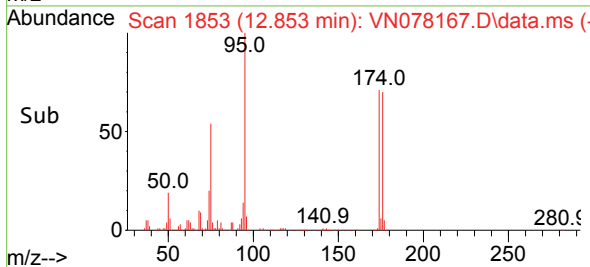
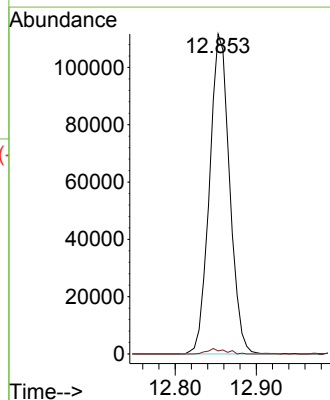
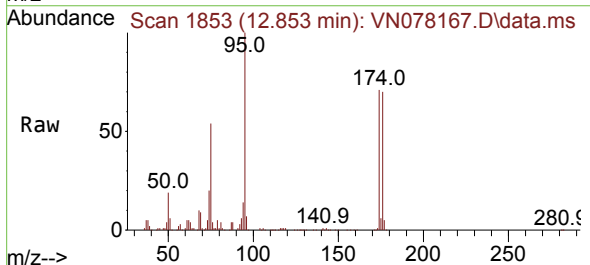
Instrument :
MSVOA_N
ClientSampleId :
MARION-SOIL-0609

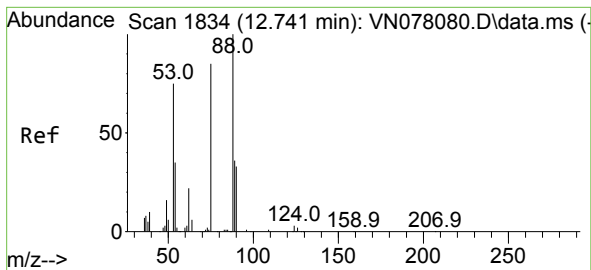
Tgt Ion: 83 Resp: 127
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 28.071 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078167.D
Acq: 12 Jun 2023 15:30

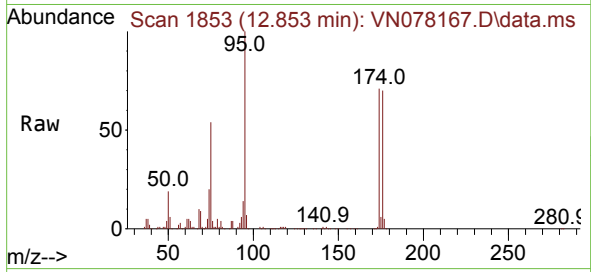
Tgt Ion: 75 Resp: 191894
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 86.243 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078167.D
 Acq: 12 Jun 2023 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 MARION-SOIL-0609



Tgt Ion: 75 Resp: 191894
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

