

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061323\
 Data File : VY014135.D
 Acq On : 13 Jun 2023 13:32
 Operator : KP/MD
 Sample : 03114-01
 Misc : 4.27g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MARION-SOIL-0609

Quant Time: Jun 14 01:34:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

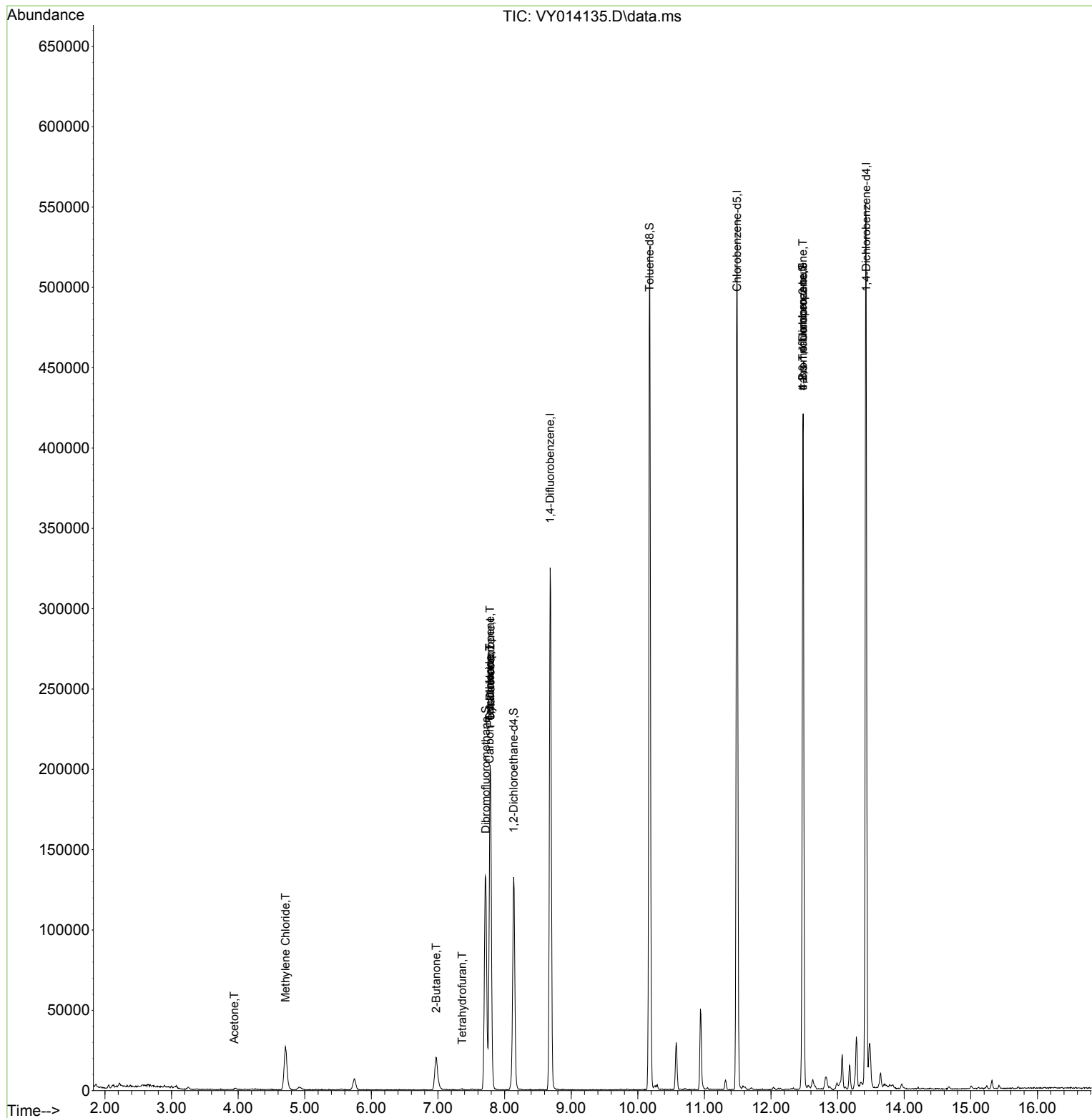
Internal Standards						
1) Pentafluorobenzene	7.789	168	157513	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	273608	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	283506	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	140188	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	106074	48.361	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.720%		
35) Dibromofluoromethane	7.716	113	92878	47.866	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.740%		
50) Toluene-d8	10.179	98	337770	46.562	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	93.120%		
62) 4-Bromofluorobenzene	12.477	95	121581	47.181	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	94.360%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.985	59	170	Below Cal	#	89
13) Acrolein	3.485	56	21	Below Cal	#	14
16) Acetone	3.942	43	822	1.243	ug/l #	68
20) Methylene Chloride	4.710	84	19271	5.973	ug/l	94
25) 2-Butanone	6.972	43	1563	1.920	ug/l #	49
29) Tetrahydrofuran	7.362	42	538	1.042	ug/l #	39
31) Cyclohexane	7.783	56	3469	1.181	ug/l #	32
36) 1,1-Dichloropropene	7.783	75	12214	4.038	ug/l #	51
38) Carbon Tetrachloride	7.777	117	15617	4.474	ug/l #	16
76) 1,2,3-Trichloropropane	12.477	75	66361	36.081	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	66361	77.993	ug/l #	11

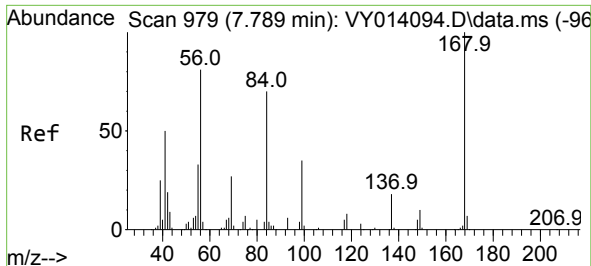
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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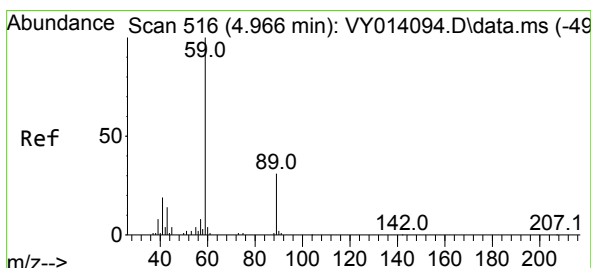
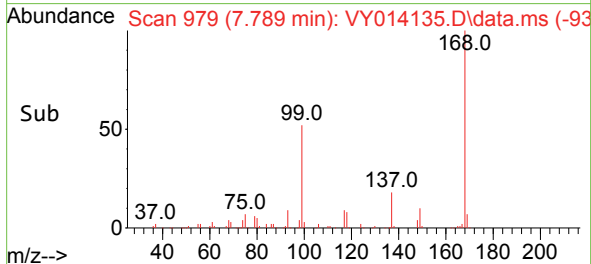
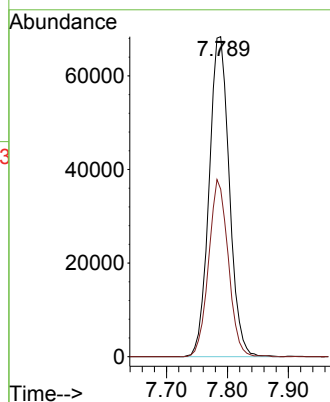
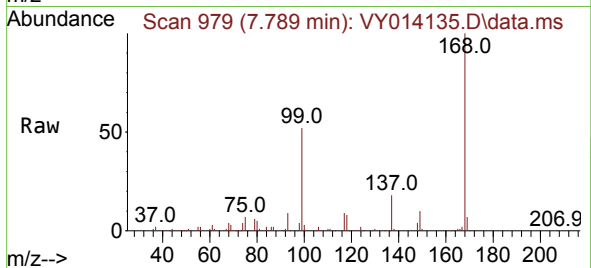




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014135.D
Acq: 13 Jun 2023 13:32

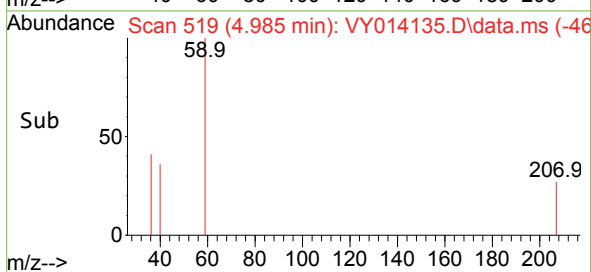
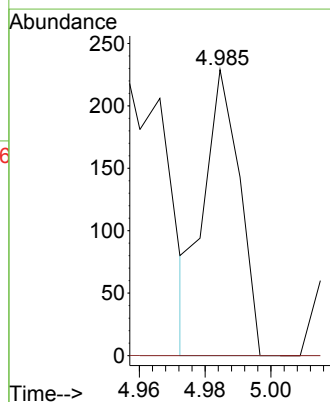
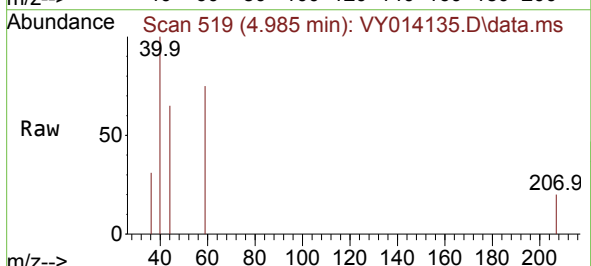
Instrument :
MSVOA_Y
ClientSampleId :
MARION-SOIL-0609

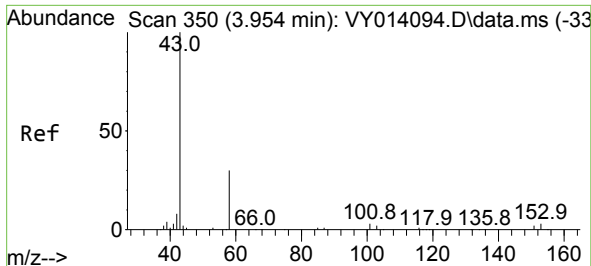
Tgt Ion:168 Resp: 157513
Ion Ratio Lower Upper
168 100
99 52.3 43.4 65.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.985 min Scan# 519
Delta R.T. 0.019 min
Lab File: VY014135.D
Acq: 13 Jun 2023 13:32

Tgt Ion: 59 Resp: 170
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#





#16

Acetone

Concen: 1.243 ug/l

RT: 3.942 min Scan# 34

Delta R.T. -0.012 min

Lab File: VY014135.D

Acq: 13 Jun 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

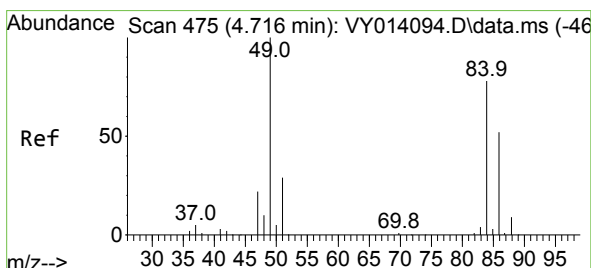
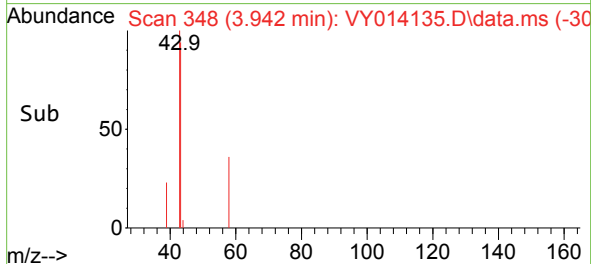
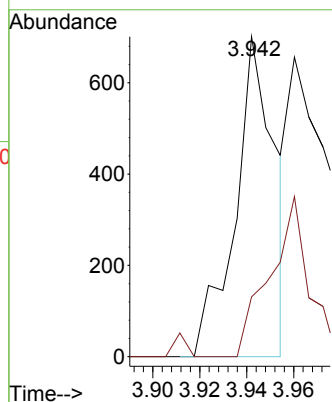
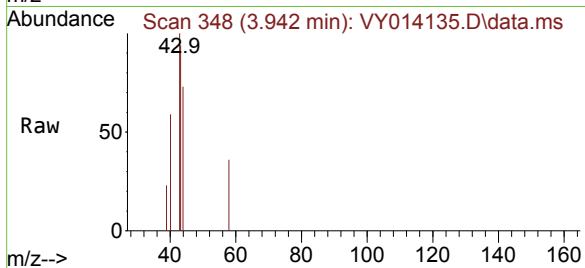
MARION-SOIL-0609

Tgt Ion: 43 Resp: 822

Ion Ratio Lower Upper

43 100

58 11.3 22.7 34.1#



#20

Methylene Chloride

Concen: 5.973 ug/l

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY014135.D

Acq: 13 Jun 2023 13:32

Tgt Ion: 84 Resp: 19271

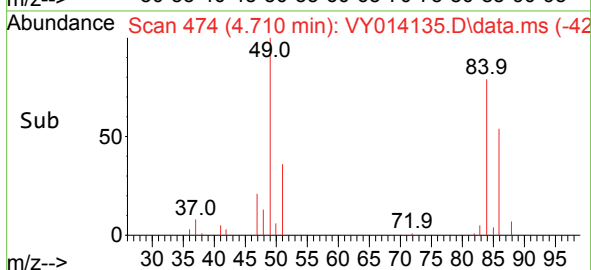
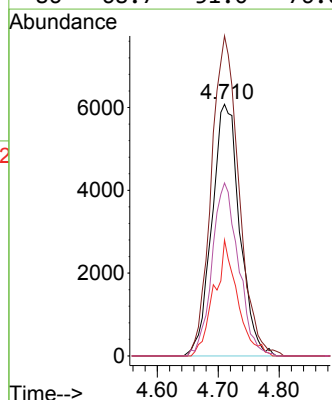
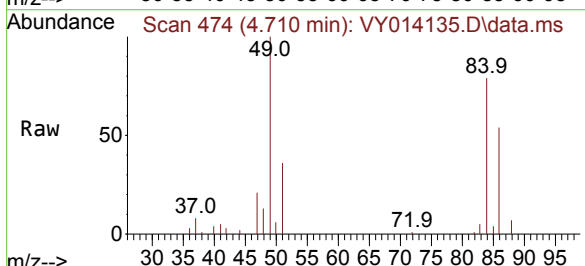
Ion Ratio Lower Upper

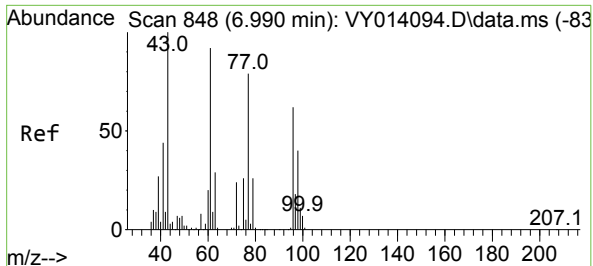
84 100

49 127.2 106.9 160.3

51 46.1 33.2 49.8

86 68.7 51.0 76.6

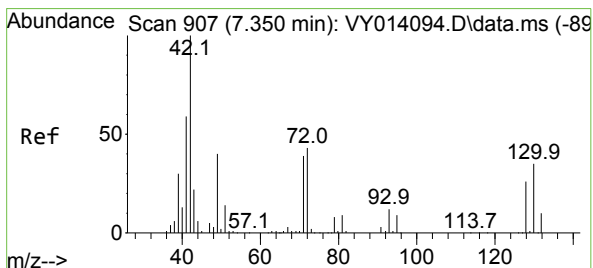
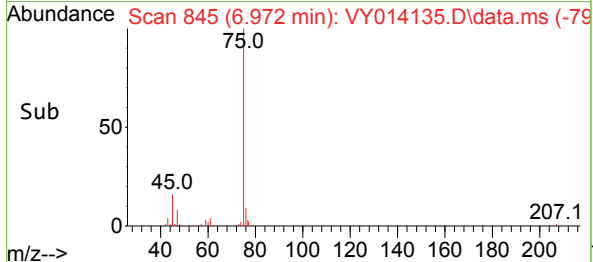
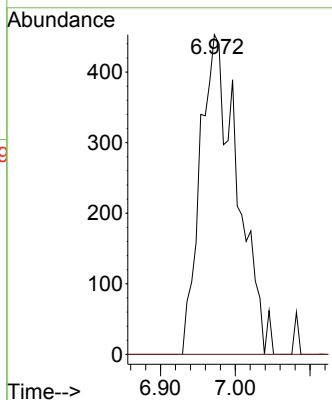
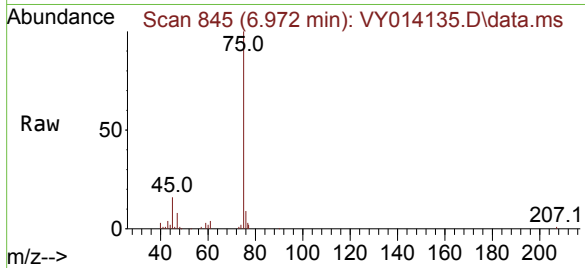




#25
2-Butanone
Concen: 1.920 ug/l
RT: 6.972 min Scan# 848
Delta R.T. -0.018 min
Lab File: VY014135.D
Acq: 13 Jun 2023 13:32

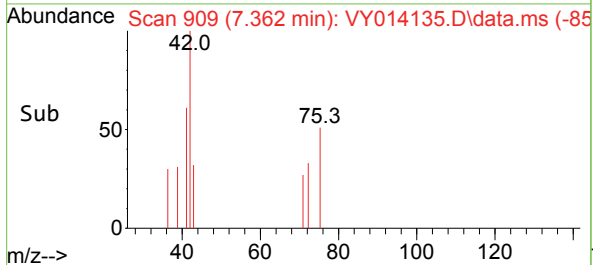
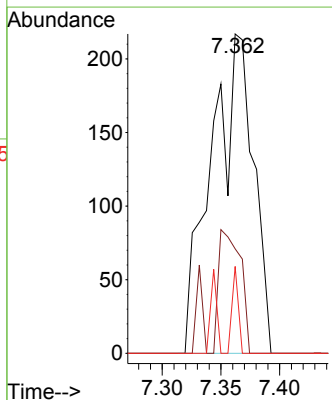
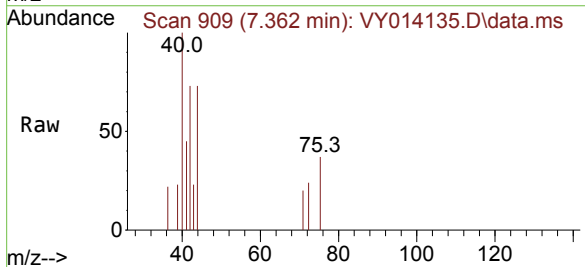
Instrument :
MSVOA_Y
ClientSampleId :
MARION-SOIL-0609

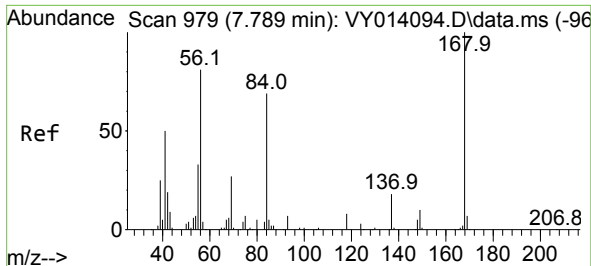
Tgt Ion: 43 Resp: 1563
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#



#29
Tetrahydrofuran
Concen: 1.042 ug/l
RT: 7.362 min Scan# 909
Delta R.T. 0.012 min
Lab File: VY014135.D
Acq: 13 Jun 2023 13:32

Tgt Ion: 42 Resp: 538
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 4.1 31.0 46.4#

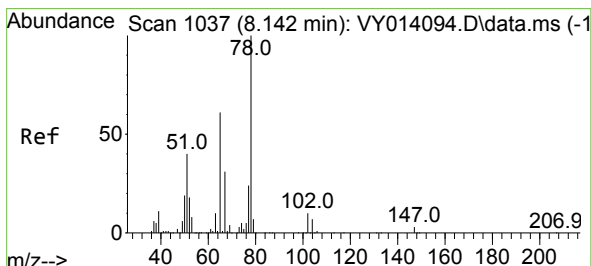
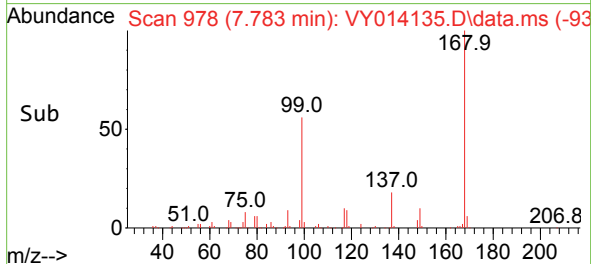
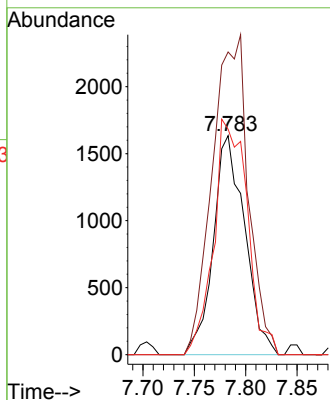
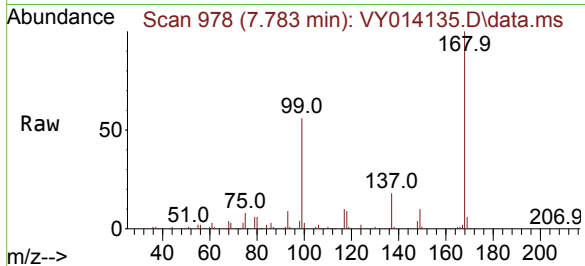




#31
Cyclohexane
Concen: 1.181 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014135.D
Acq: 13 Jun 2023 13:32

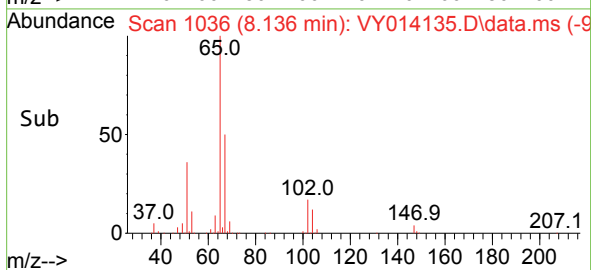
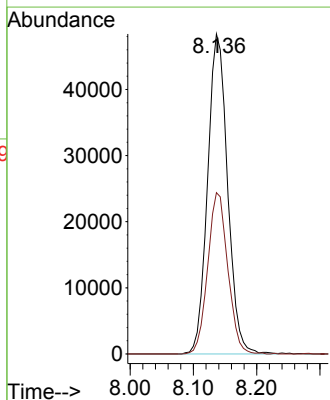
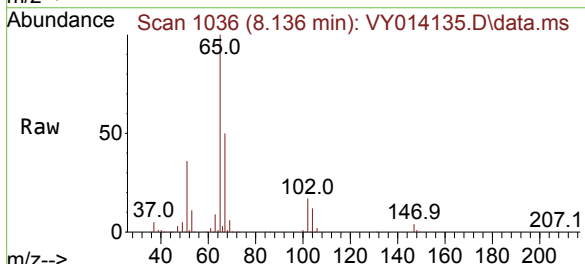
Instrument :
MSVOA_Y
ClientSampleId :
MARION-SOIL-0609

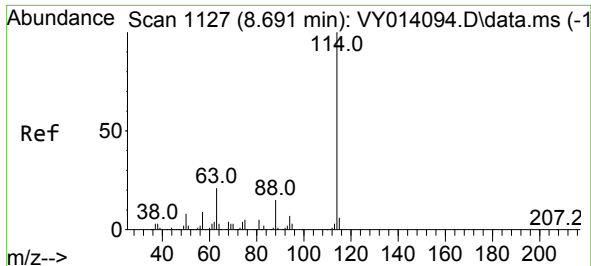
Tgt Ion: 56 Resp: 3469
Ion Ratio Lower Upper
56 100
69 138.2 27.8 41.6#
84 102.9 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 48.361 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VY014135.D
Acq: 13 Jun 2023 13:32

Tgt Ion: 65 Resp: 106074
Ion Ratio Lower Upper
65 100
67 50.7 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY014135.D

Acq: 13 Jun 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MARION-SOIL-0609

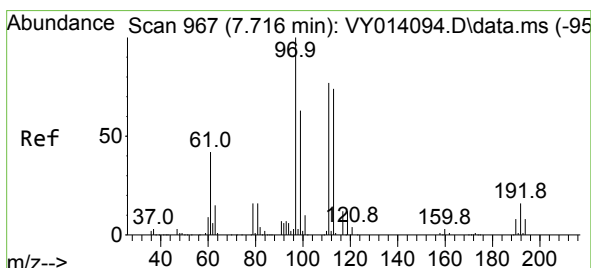
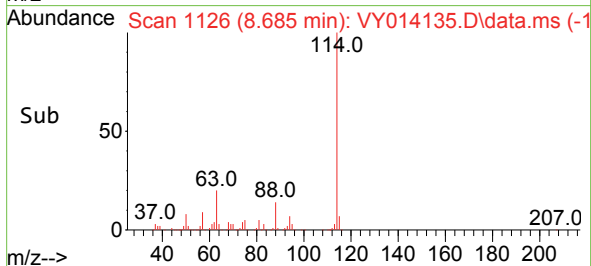
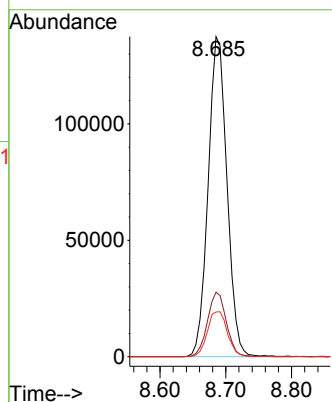
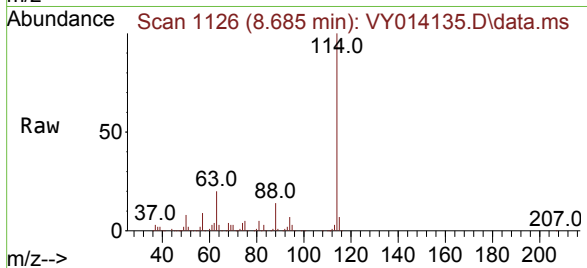
Tgt Ion:114 Resp: 273608

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.4

88 13.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 47.866 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY014135.D

Acq: 13 Jun 2023 13:32

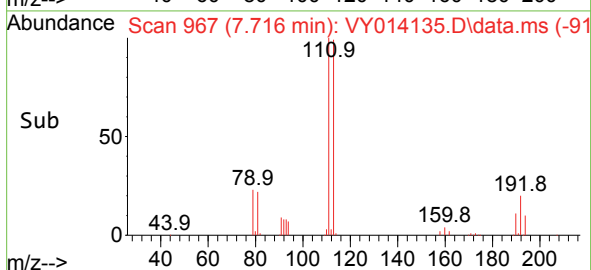
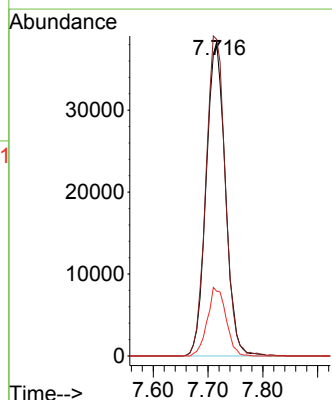
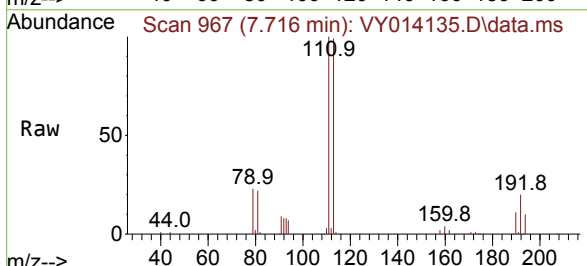
Tgt Ion:113 Resp: 92878

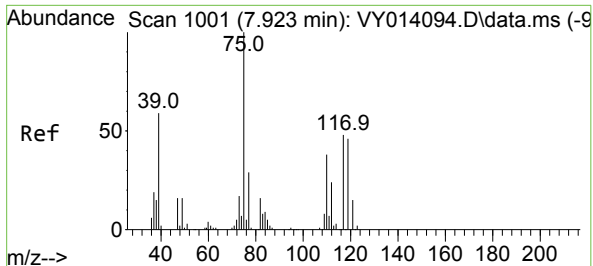
Ion Ratio Lower Upper

113 100

111 103.4 81.3 121.9

192 21.2 16.9 25.3

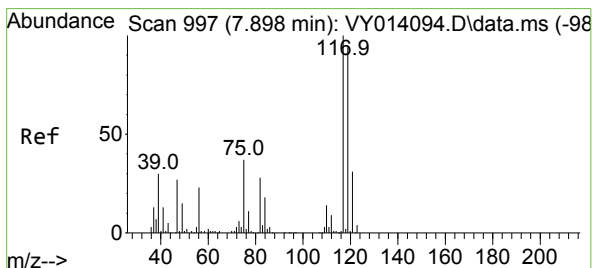
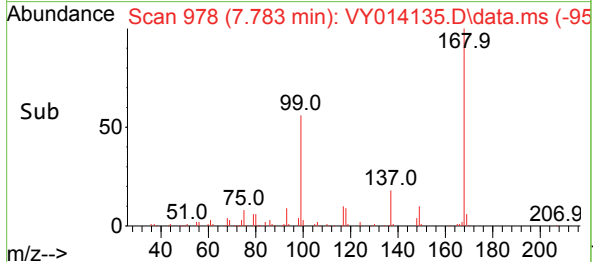
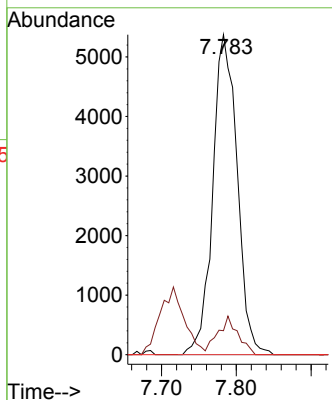
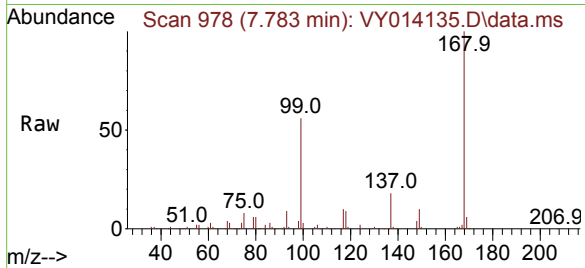




#36
 1,1-Dichloropropene
 Concen: 4.038 ug/l
 RT: 7.783 min Scan# 91
 Delta R.T. -0.140 min
 Lab File: VY014135.D
 Acq: 13 Jun 2023 13:32

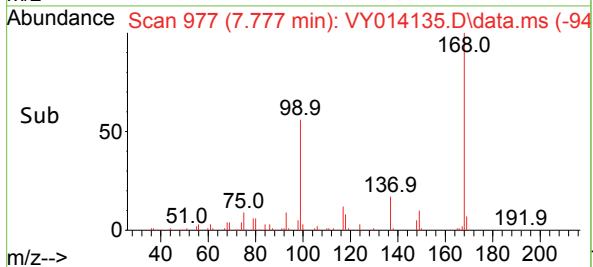
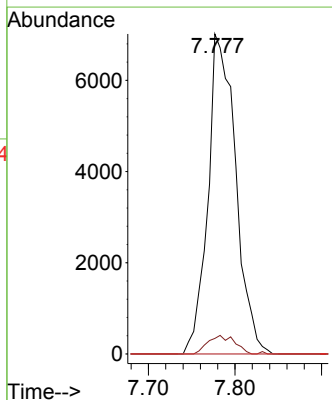
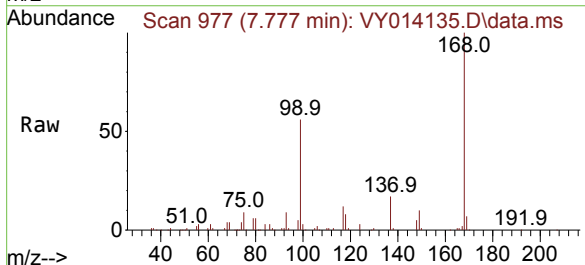
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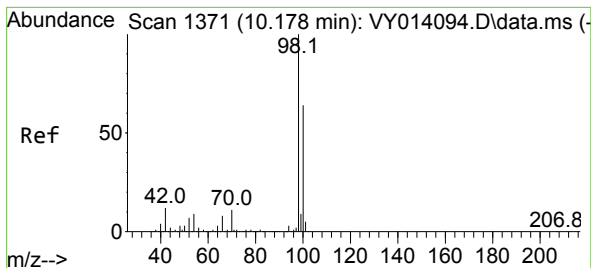
Tgt Ion: 75 Resp: 12214
 Ion Ratio Lower Upper
 75 100
 110 9.9 17.8 53.5#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 4.474 ug/l
 RT: 7.777 min Scan# 977
 Delta R.T. -0.121 min
 Lab File: VY014135.D
 Acq: 13 Jun 2023 13:32

Tgt Ion: 117 Resp: 15617
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.4 114.6#
 121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 46.562 ug/l

RT: 10.179 min Scan# 1

Delta R.T. 0.001 min

Lab File: VY014135.D

Acq: 13 Jun 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

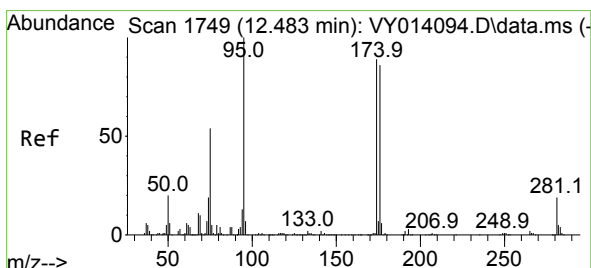
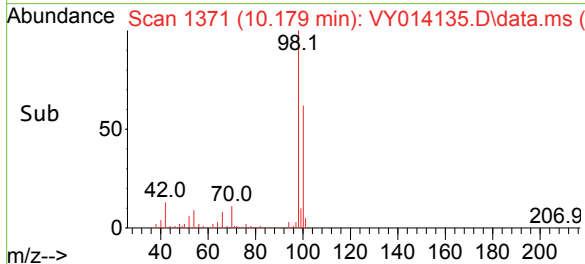
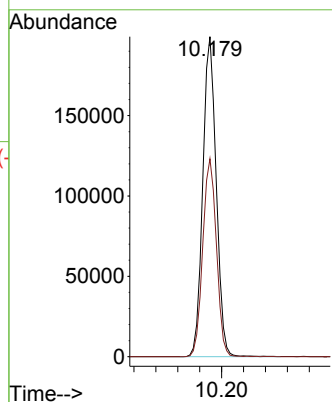
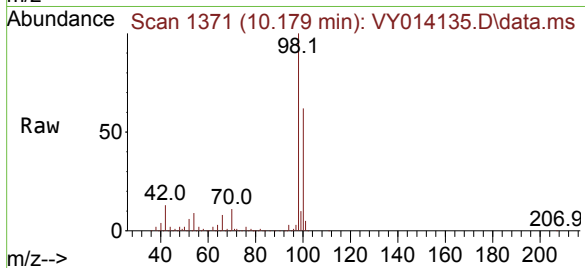
MARION-SOIL-0609

Tgt Ion: 98 Resp: 337770

Ion Ratio Lower Upper

98 100

100 63.0 50.1 75.1



#62

4-Bromofluorobenzene

Concen: 47.181 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.006 min

Lab File: VY014135.D

Acq: 13 Jun 2023 13:32

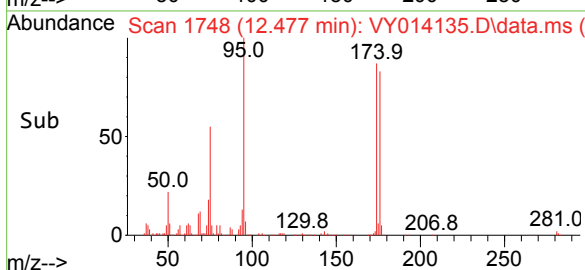
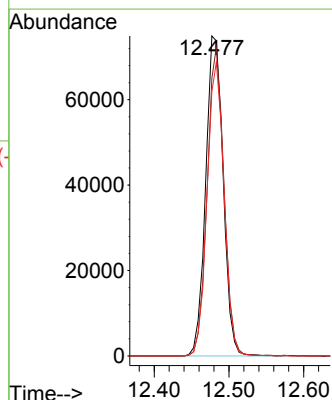
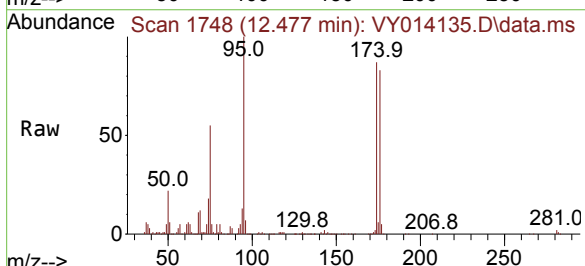
Tgt Ion: 95 Resp: 121581

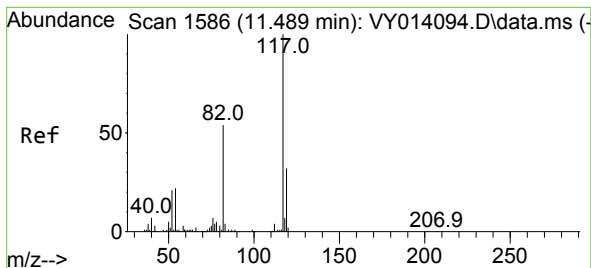
Ion Ratio Lower Upper

95 100

174 93.0 0.0 178.2

176 89.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY014135.D

Acq: 13 Jun 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MARION-SOIL-0609

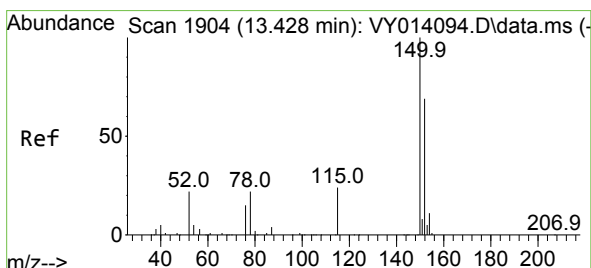
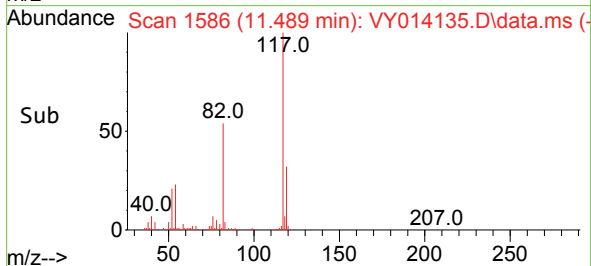
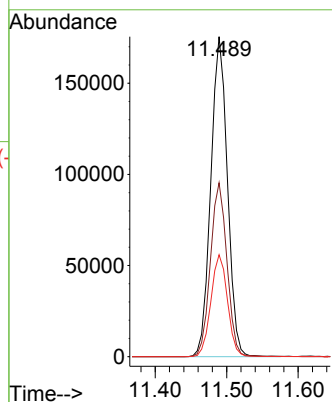
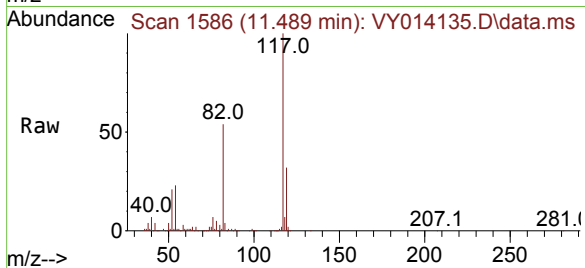
Tgt Ion:117 Resp: 283506

Ion Ratio Lower Upper

117 100

82 54.3 43.4 65.0

119 31.8 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY014135.D

Acq: 13 Jun 2023 13:32

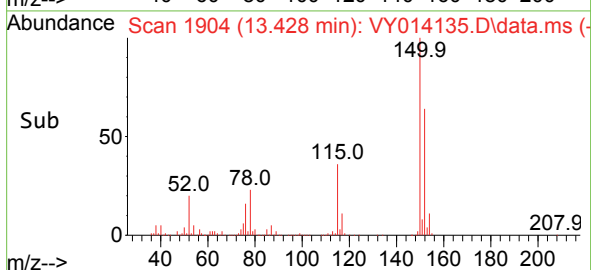
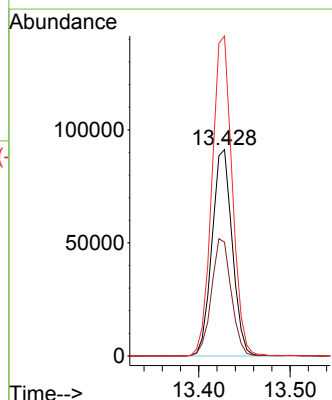
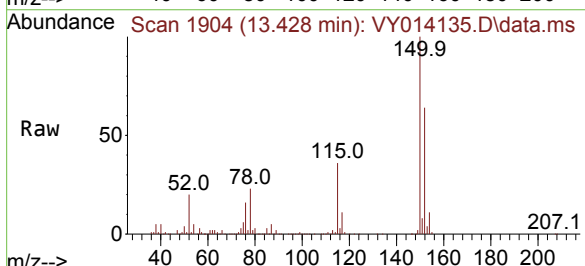
Tgt Ion:152 Resp: 140188

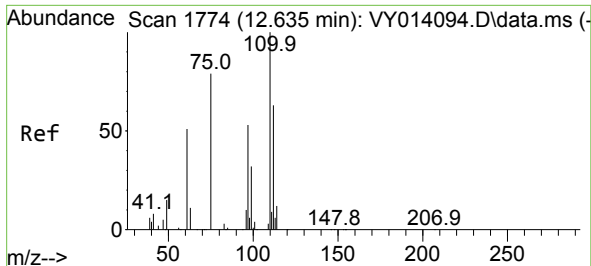
Ion Ratio Lower Upper

152 100

115 56.0 28.8 86.5

150 155.5 0.0 348.8

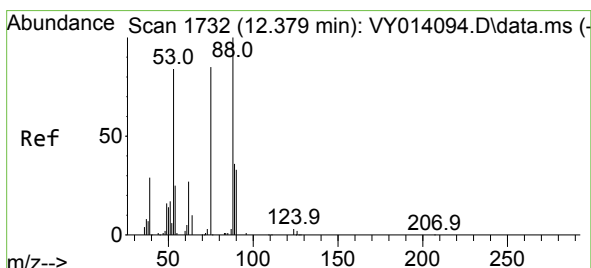
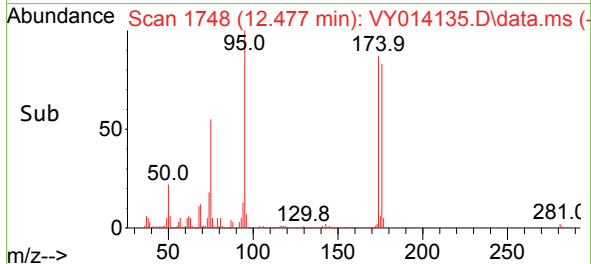
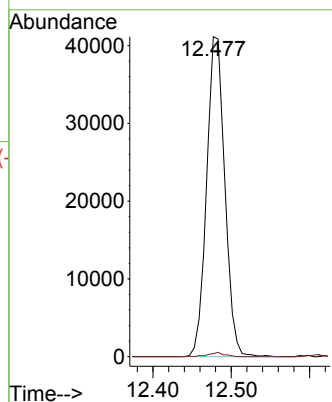
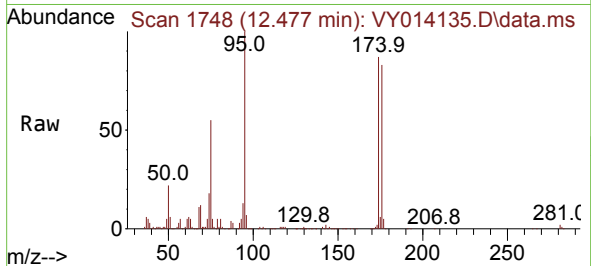




#76
1,2,3-Trichloropropane
Concen: 36.081 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.158 min
Lab File: VY014135.D
Acq: 13 Jun 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MARION-SOIL-0609

Tgt Ion: 75 Resp: 66361
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.993 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.098 min
Lab File: VY014135.D
Acq: 13 Jun 2023 13:32

Tgt Ion: 75 Resp: 66361
Ion Ratio Lower Upper
75 100
53 0.6 77.8 116.8#
89 0.0 37.4 56.0#

