

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062462.D
 Acq On : 9 Jul 2020 18:12
 Operator : JC/MD
 Sample : L3164-08RE
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-594-598RE

Quant Time: Jul 10 01:07:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	208945	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	381198	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	359251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	132133	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	166358	51.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.52%	
35) Dibromofluoromethane	7.55	113	122105	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	
50) Toluene-d8	10.06	98	487852	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
62) 4-Bromofluorobenzene	12.38	95	176533	51.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.86%	

Target Compounds

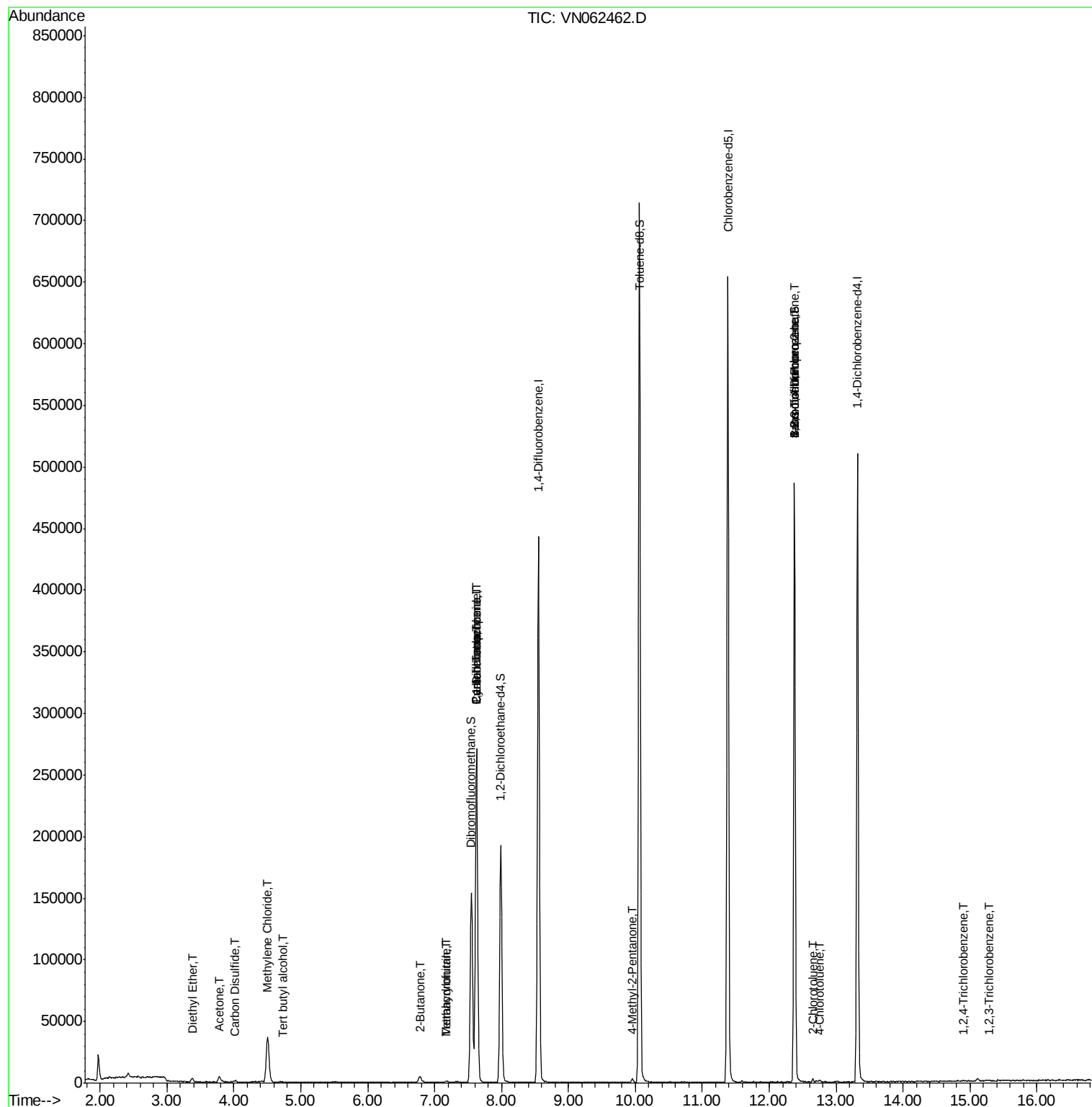
						Qvalue
8) Diethyl Ether	3.38	74	1264	0.796	ug/l	79
11) Tert butyl alcohol	4.74	59	173	0.325	ug/l #	74
16) Acetone	3.79	43	8431	6.179	ug/l	92
17) Carbon Disulfide	4.02	76	1825	0.272	ug/l #	75
20) Methylene Chloride	4.51	84	26512	9.088	ug/l	87
25) 2-Butanone	6.79	43	1172	0.588	ug/l #	53
29) Tetrahydrofuran	7.18	42	1010	0.753	ug/l #	59
31) Cyclohexane	7.63	56	5137	1.052	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	18685	4.865	ug/l #	51
38) Carbon Tetrachloride	7.63	117	21500	6.227	ug/l #	16
41) Methacrylonitrile	7.17	41	475	0.253	ug/l #	25
51) 4-Methyl-2-Pentanone	9.96	43	2416	0.570	ug/l #	82
71) Bromoform	12.38	173	544	0.288	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	93153	28.732	ug/l #	100
79) 2-Chlorotoluene	12.65	91	2253	0.311	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.38	75	93153	76.905	ug/l #	10
82) 4-Chlorotoluene	12.76	91	1772	0.241	ug/l	81
93) 1,2,4-Trichlorobenzene	14.89	180	59	3.846	ug/l #	51
95) Naphthalene	15.11	128	2829	Below Cal	#	72
96) 1,2,3-Trichlorobenzene	15.28	180	122	3.275	ug/l #	66

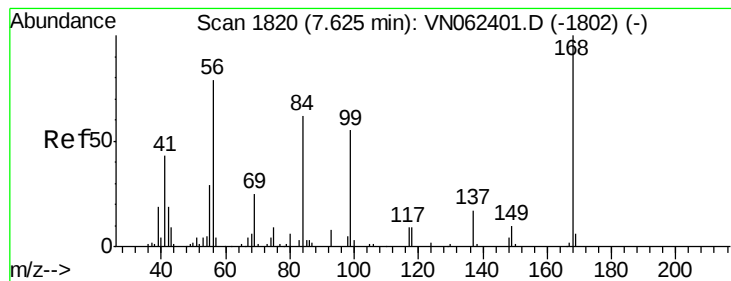
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

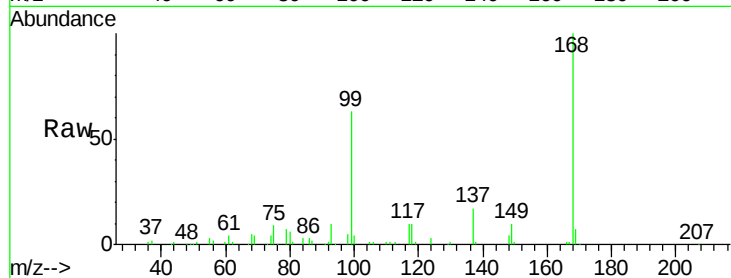
BP-MW180-SOIL-594-598RE

Tot Ion:168 Resp: 208945

Ion Ratio Lower Upper

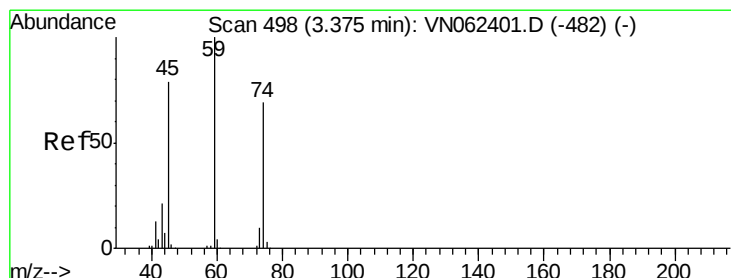
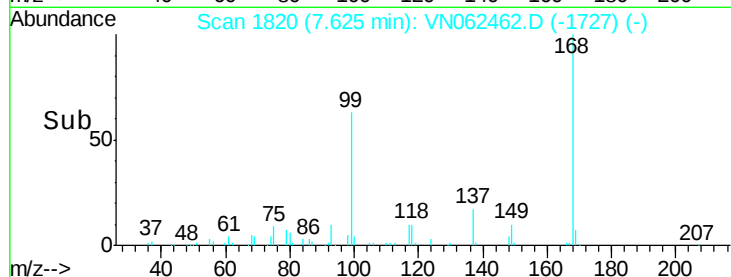
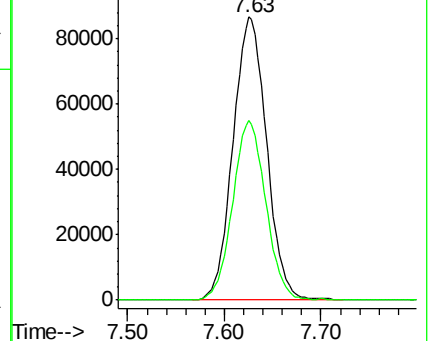
168 100

99 63.3 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#8

Diethyl Ether

Concen: 0.796 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.00 min

Lab File: VN062462.D

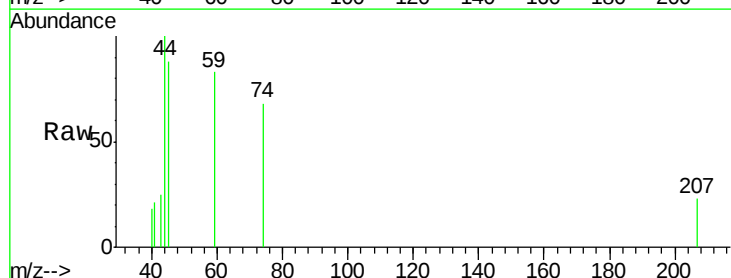
Acq: 9 Jul 2020 18:12

Tgt Ion: 74 Resp: 1264

Ion Ratio Lower Upper

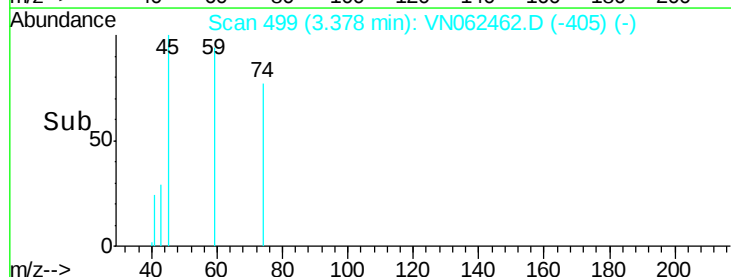
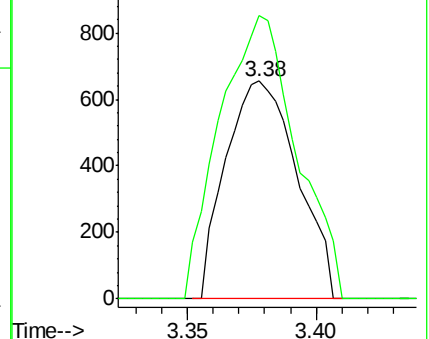
74 100

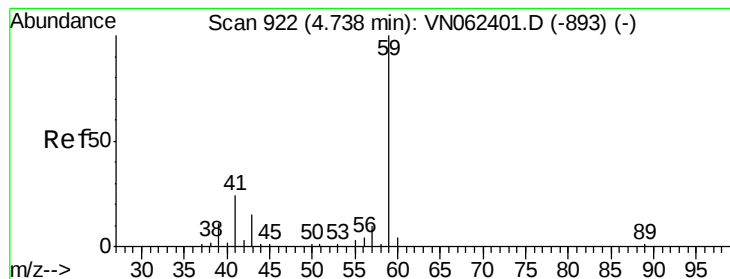
45 140.0 58.5 175.3



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



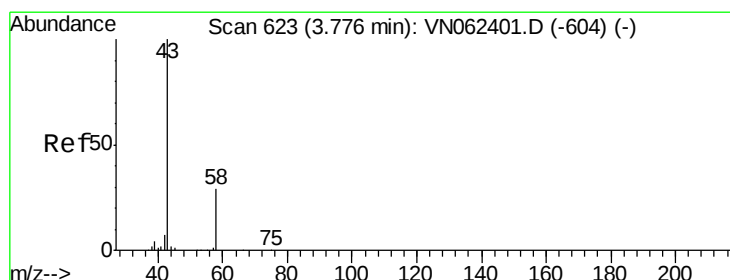
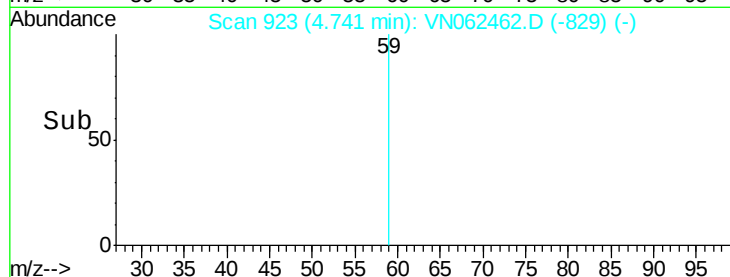
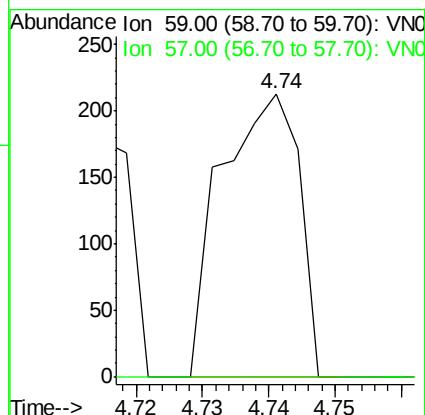
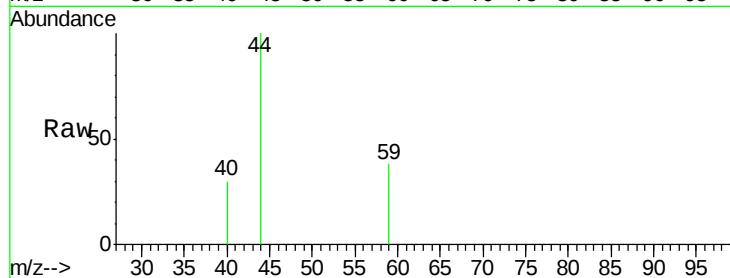


#11

Tert butyl alcohol
 Concen: 0.325 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. 0.00 min
 Lab File: VN062462.D
 Acq: 9 Jul 2020 18:12

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-594-598RE

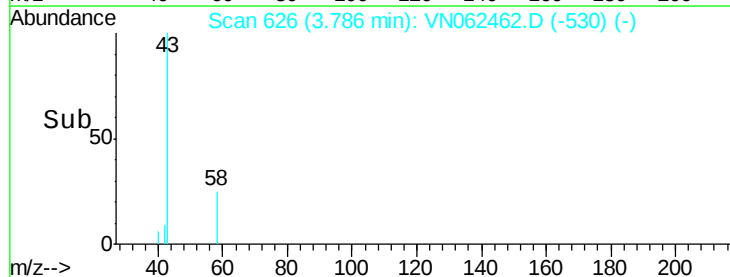
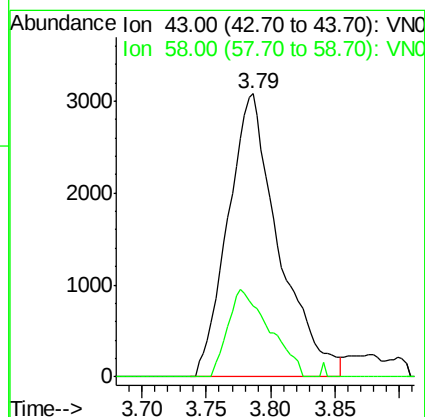
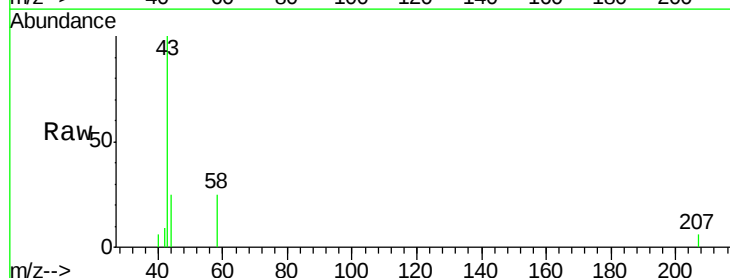
Tot Ion: 59 Resp: 173
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

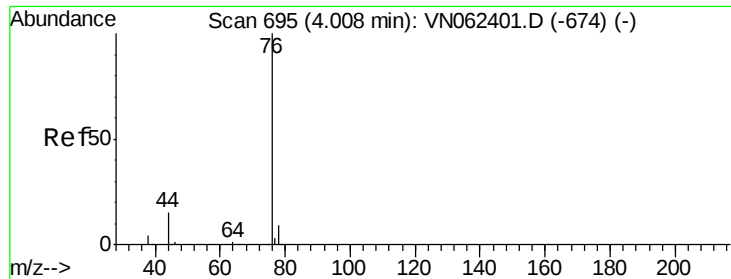


#16

Acetone
 Concen: 6.179 ug/l
 RT: 3.79 min Scan# 626
 Delta R.T. 0.01 min
 Lab File: VN062462.D
 Acq: 9 Jul 2020 18:12

Tgt Ion: 43 Resp: 8431
 Ion Ratio Lower Upper
 43 100
 58 25.2 23.5 35.3





#17

Carbon Disulfide

Concen: 0.272 ug/l

RT: 4.02 min Scan# 698

Delta R.T. 0.01 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

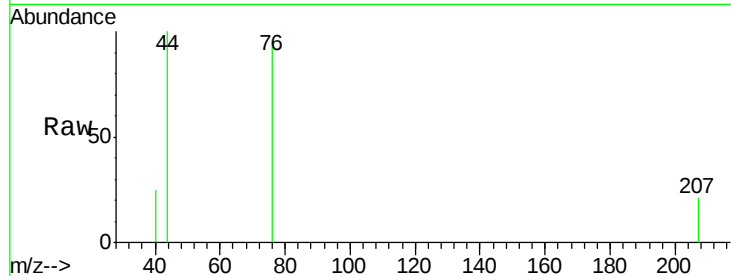
BP-MW180-SOIL-594-598RE

Tot Ion: 76 Resp: 1825

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.02

800

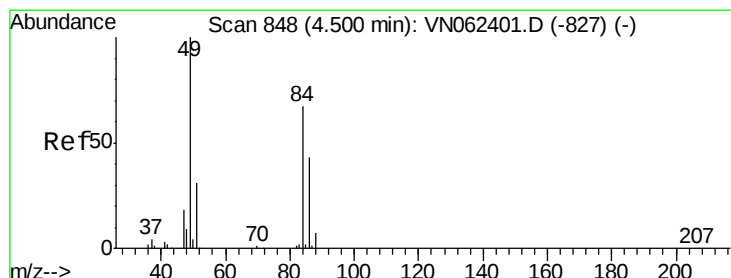
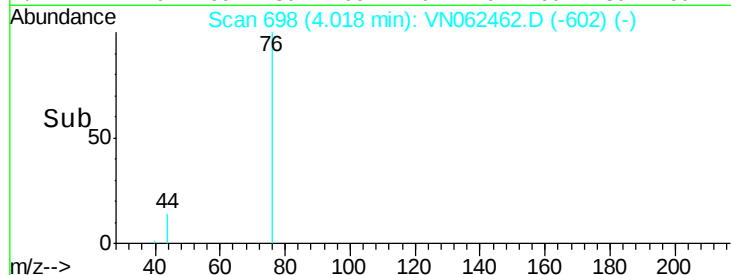
600

400

200

0

Time--> 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 9.088 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.01 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Tgt Ion: 84 Resp: 26512

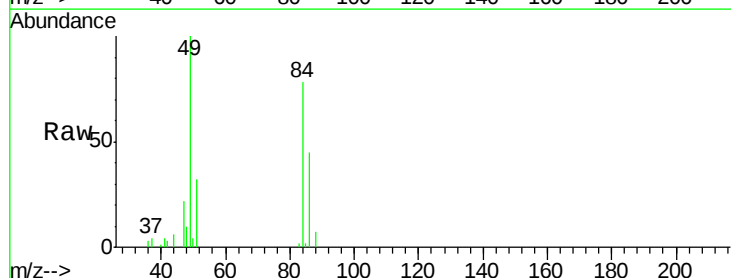
Ion Ratio Lower Upper

84 100

49 128.5 120.0 180.0

51 40.6 37.0 55.6

86 58.1 51.8 77.6



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

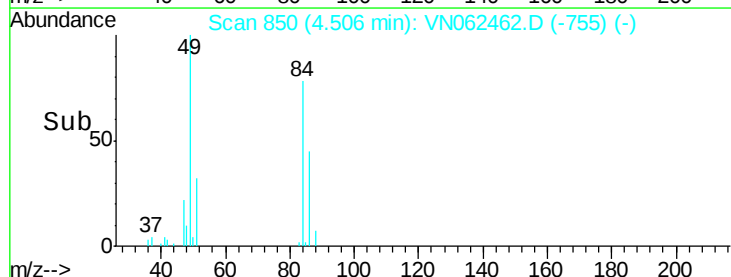
15000

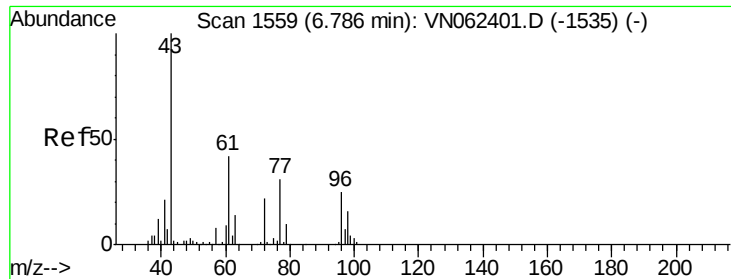
10000

5000

0

Time--> 4.40 4.50 4.60





#25

2-Butanone

Concen: 0.588 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

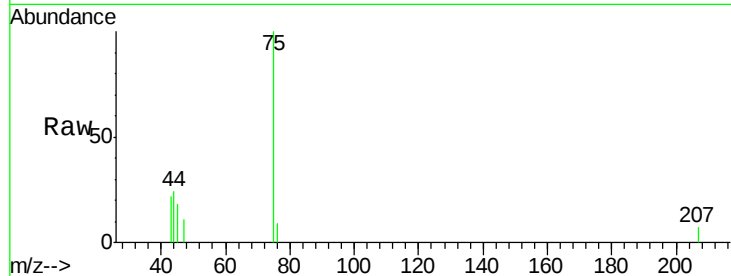
BP-MW180-SOIL-594-598RE

Tot Ion: 43 Resp: 1172

Ion Ratio Lower Upper

43 100

72 0.0 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

600

500

400

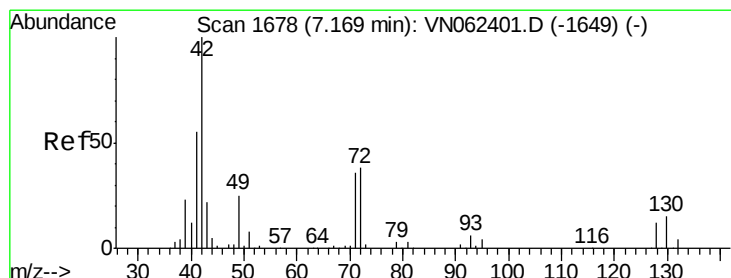
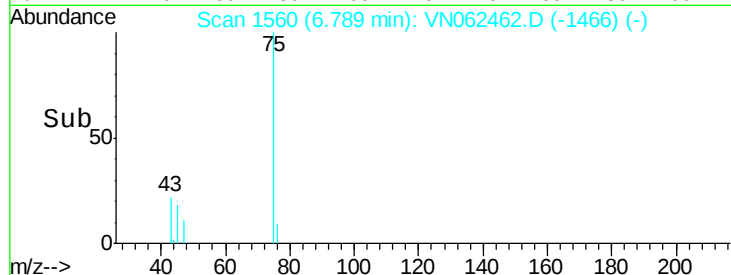
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.753 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

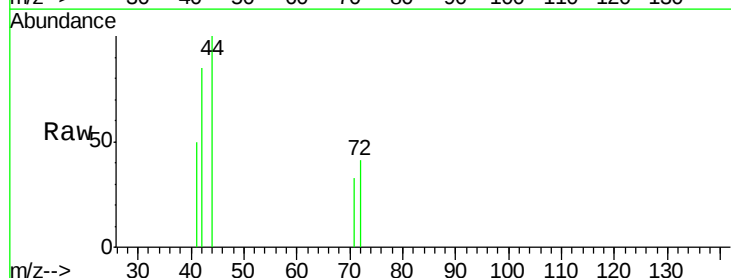
Tgt Ion: 42 Resp: 1010

Ion Ratio Lower Upper

42 100

72 17.8 29.1 43.7#

71 6.0 28.1 42.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

500

400

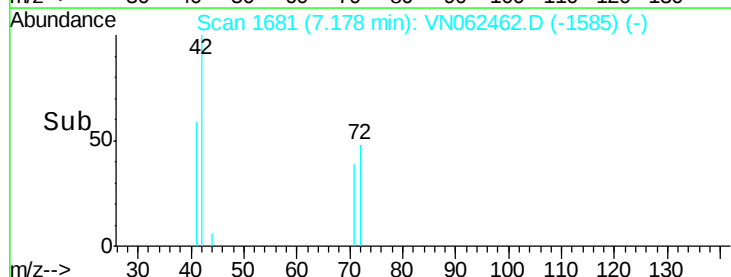
300

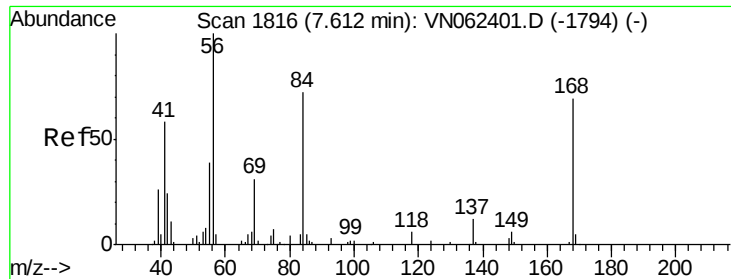
200

100

0

Time-->

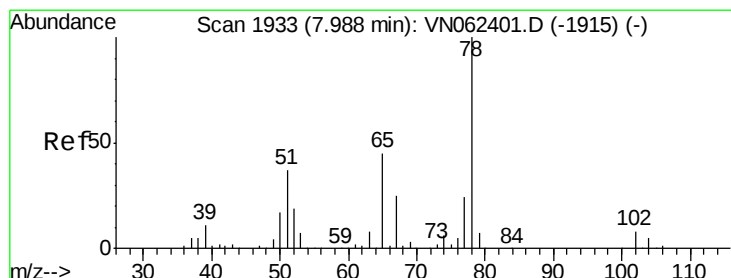
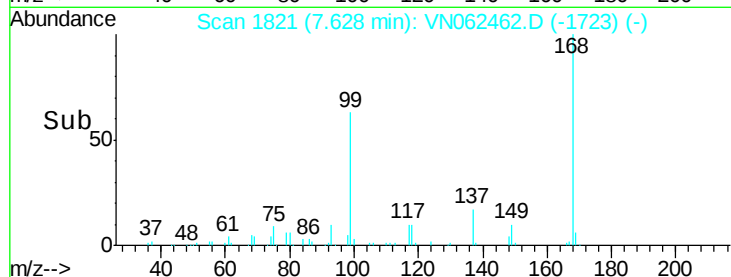
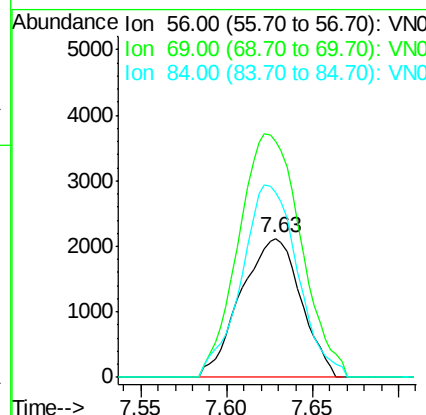
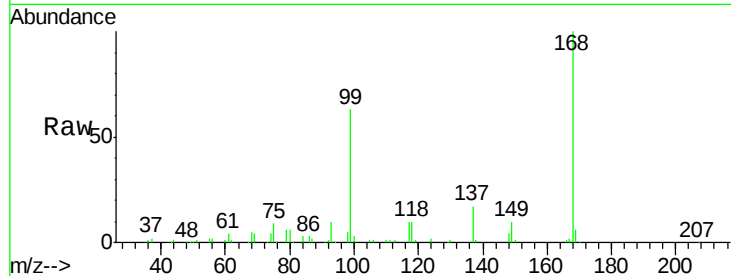




#31
Cyclohexane
Concen: 1.052 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062462.D
Acq: 9 Jul 2020 18:12

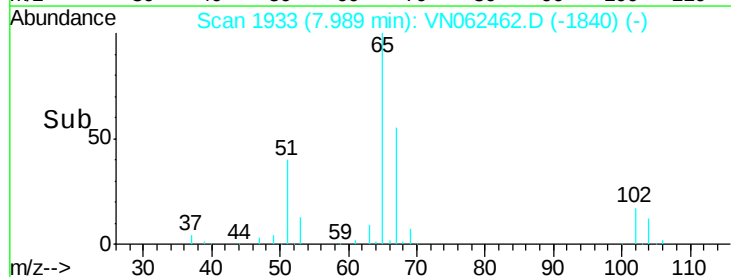
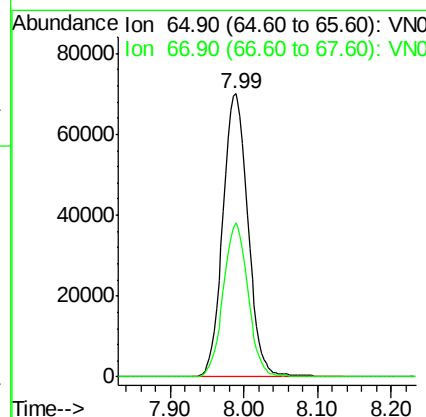
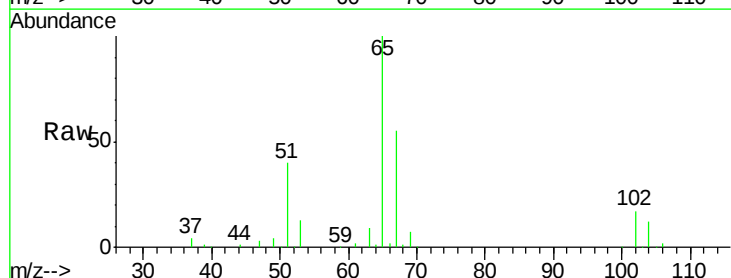
Instrument :
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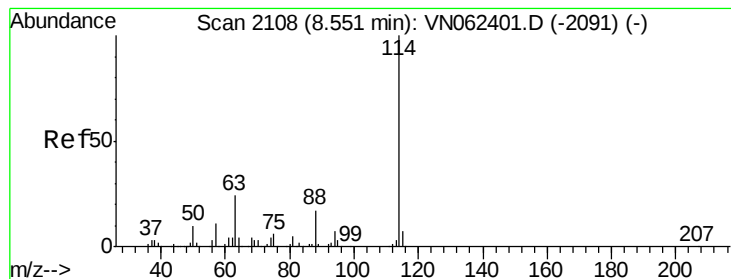
Tot Ion: 56 Resp: 5137
Ion Ratio Lower Upper
56 100
69 170.3 24.5 36.7#
84 132.9 57.4 86.2#



#33
1,2-Dichloroethane-d4
Concen: 51.763 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062462.D
Acq: 9 Jul 2020 18:12

Tgt Ion: 65 Resp: 166358
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-594-598RE

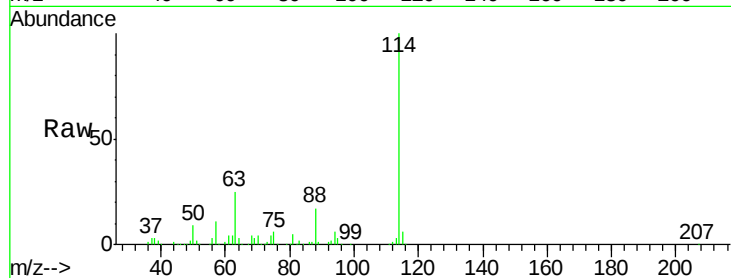
Tot Ion:114 Resp: 381198

Ion Ratio Lower Upper

114 100

63 24.6 0.0 48.4

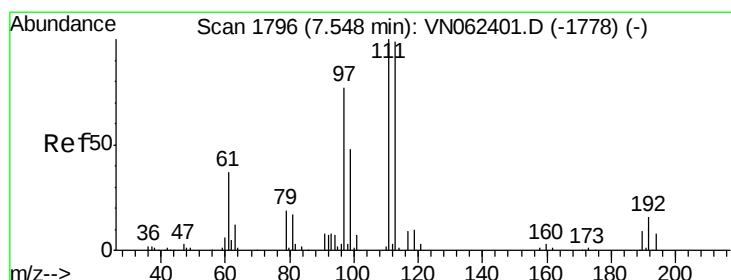
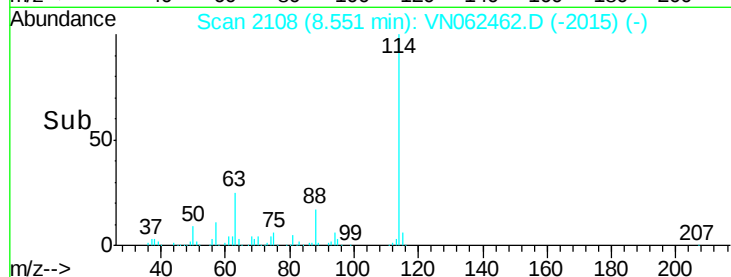
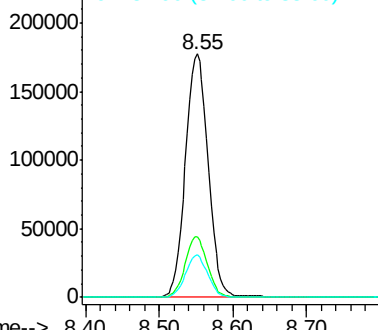
88 17.5 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 51.820 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

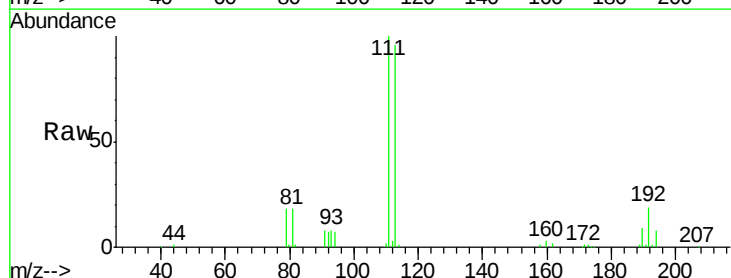
Tgt Ion:113 Resp: 122105

Ion Ratio Lower Upper

113 100

111 103.2 83.1 124.7

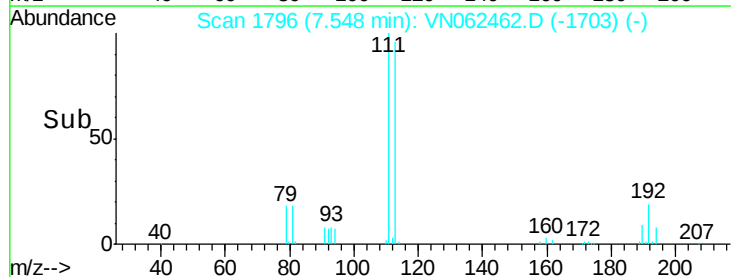
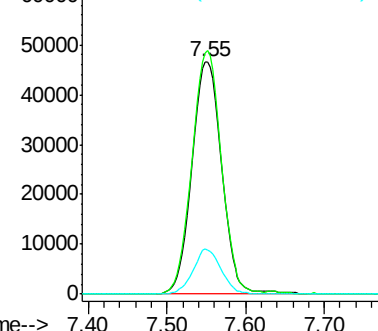
192 18.1 14.1 21.1

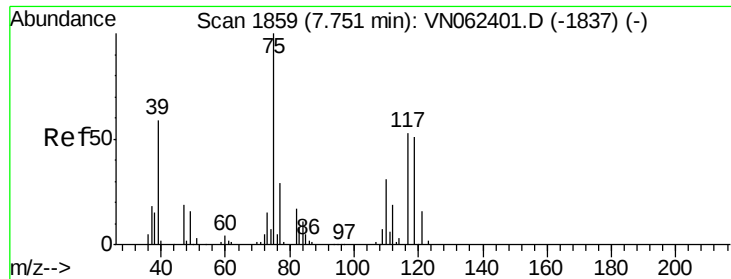


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

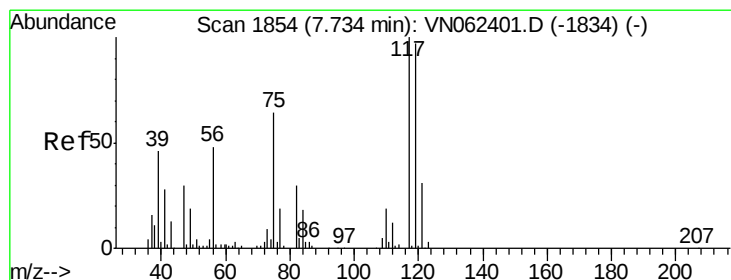
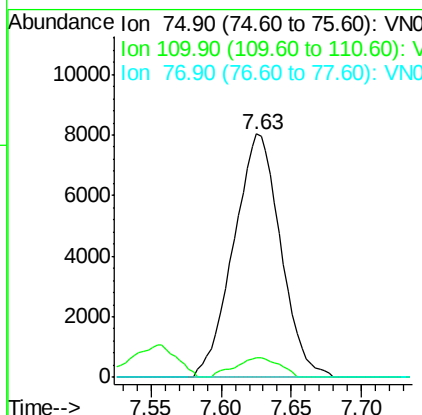
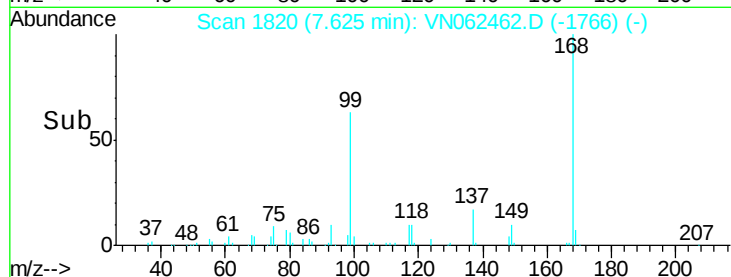
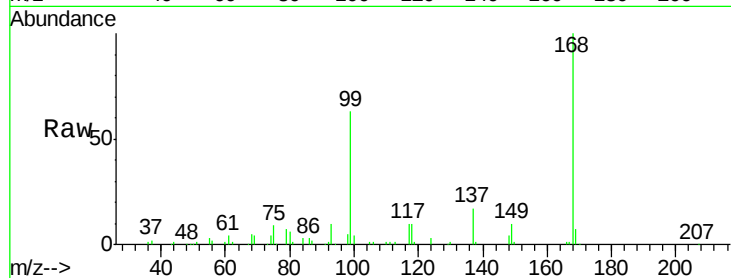




#36
 1,1-Dichloropropene
 Concen: 4.865 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062462.D
 Acq: 9 Jul 2020 18:12

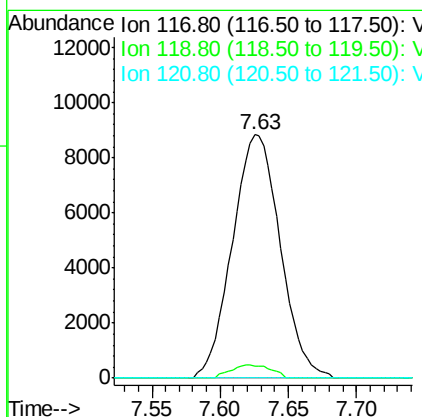
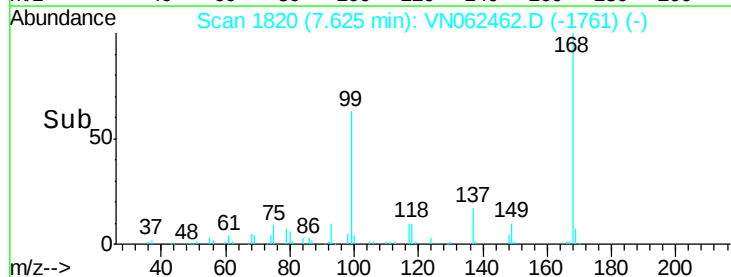
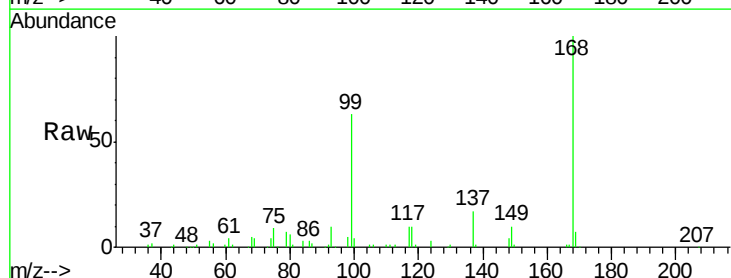
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-594-598RE

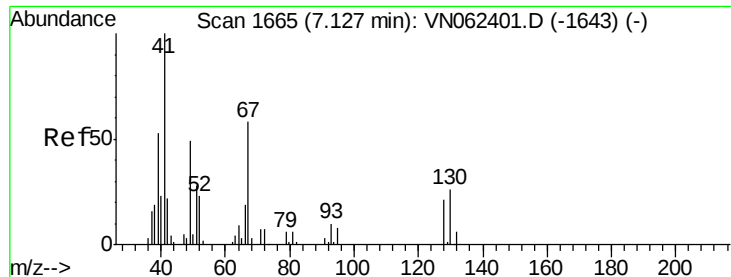
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.7	15.4	46.2#
77	0.0	24.1	36.1#



#38
 Carbon Tetrachloride
 Concen: 6.227 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062462.D
 Acq: 9 Jul 2020 18:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.2	115.8#
121	0.0	24.8	37.2#

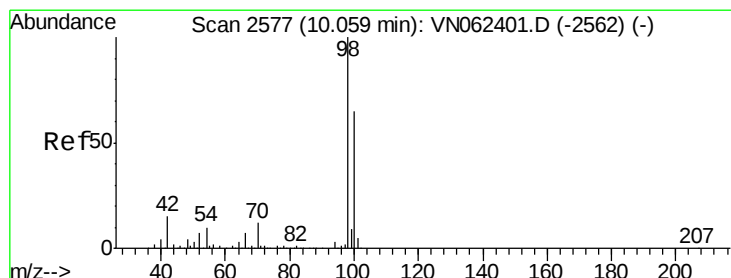
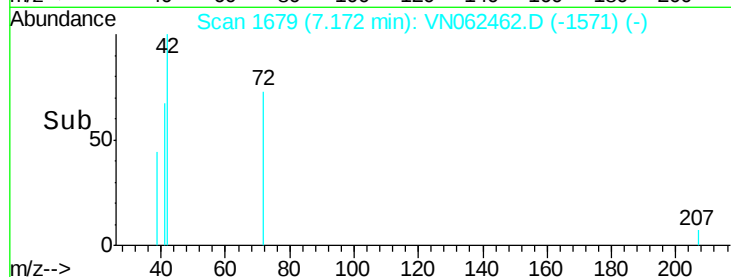
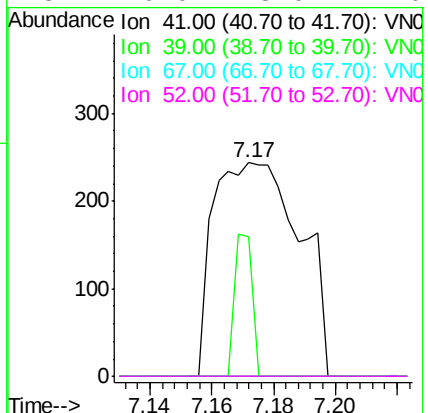
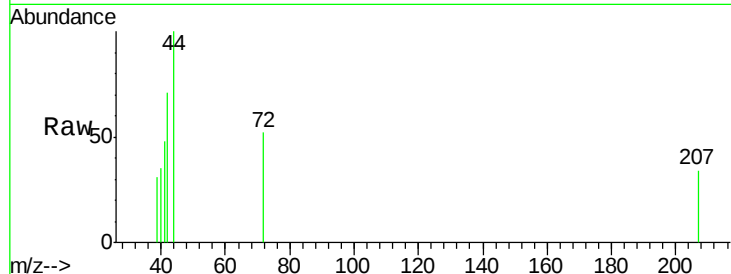




#41
Methacrylonitrile
Concen: 0.253 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.05 min
Lab File: VN062462.D
Acq: 9 Jul 2020 18:12

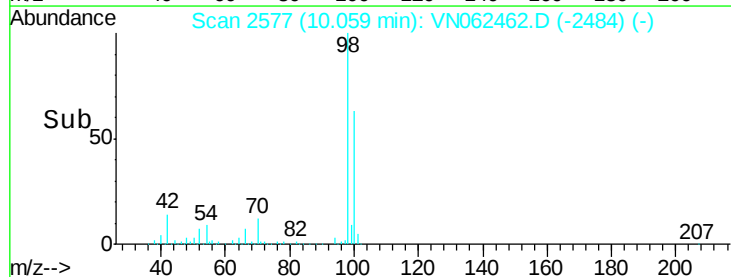
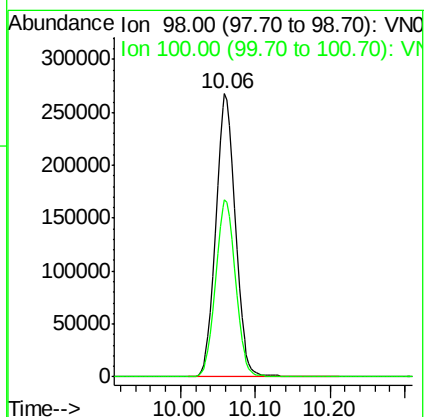
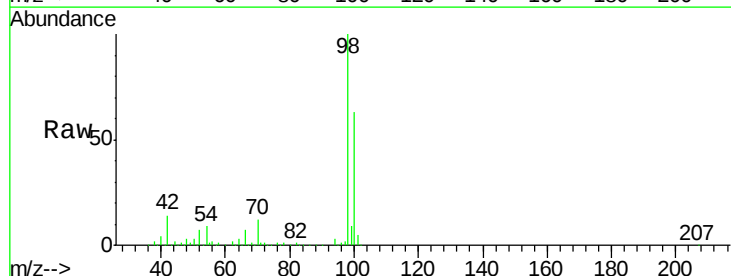
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-594-598RE

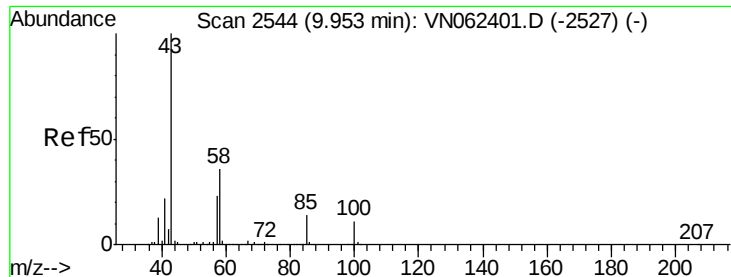
Tot Ion: 41 Resp: 475
Ion Ratio Lower Upper
41 100
39 13.1 50.2 75.2#
67 0.0 64.2 96.2#
52 0.0 28.0 42.0#



#50
Toluene-d8
Concen: 52.446 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062462.D
Acq: 9 Jul 2020 18:12

Tgt Ion: 98 Resp: 487852
Ion Ratio Lower Upper
98 100
100 63.6 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 0.570 ug/l

RT: 9.96 min Scan# 2546

Delta R.T. 0.01 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

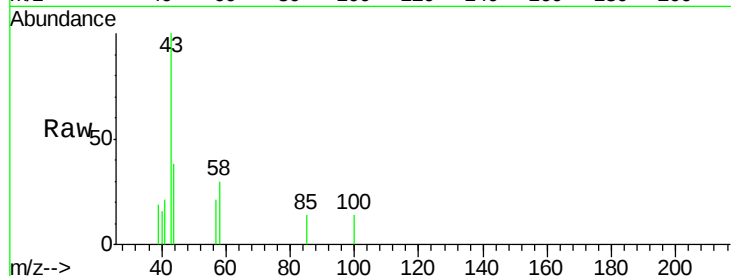
BP-MW180-SOIL-594-598RE

Tot Ion: 43 Resp: 2416

Ion Ratio Lower Upper

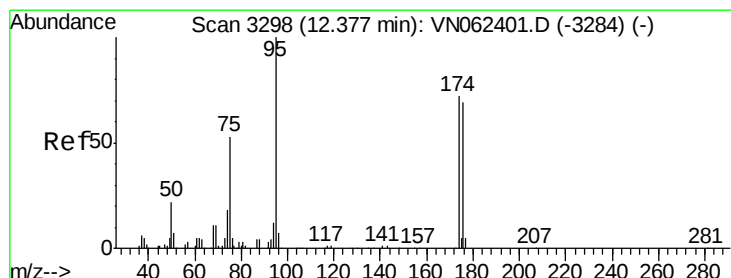
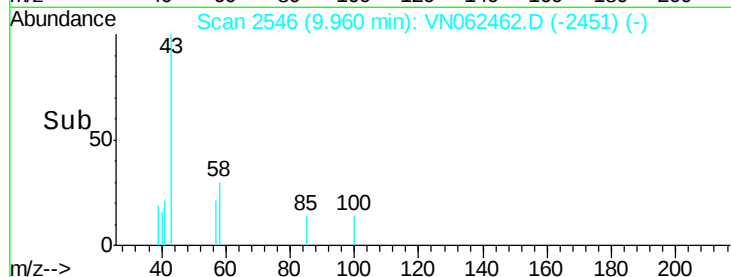
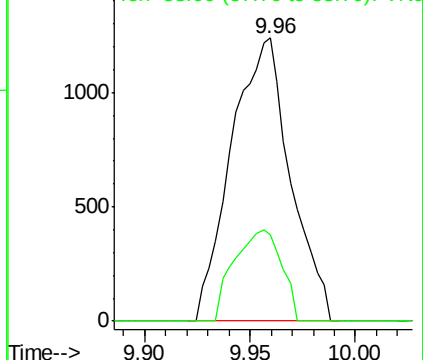
43 100

58 25.7 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 51.933 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

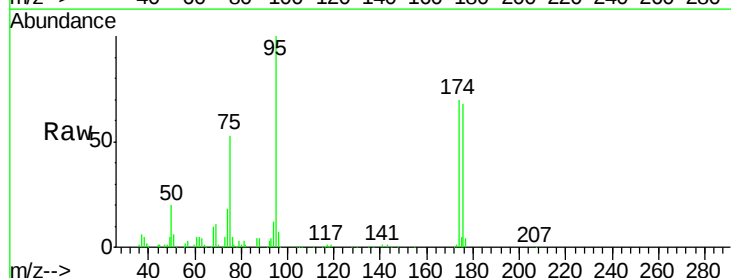
Tgt Ion: 95 Resp: 176533

Ion Ratio Lower Upper

95 100

174 69.5 0.0 141.6

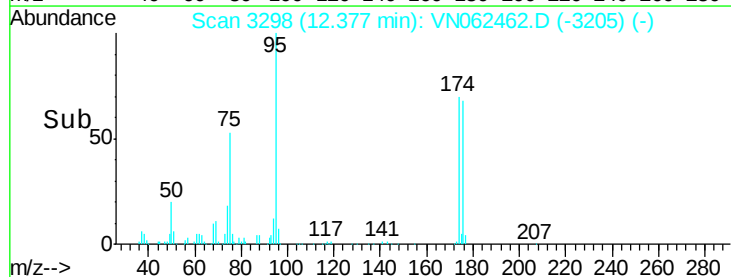
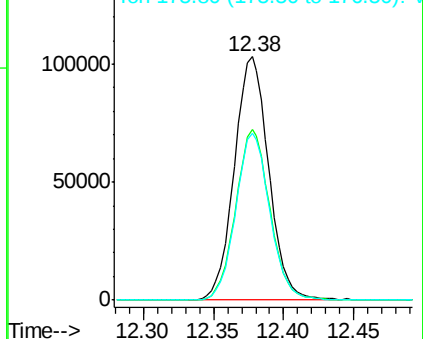
176 68.0 0.0 137.2

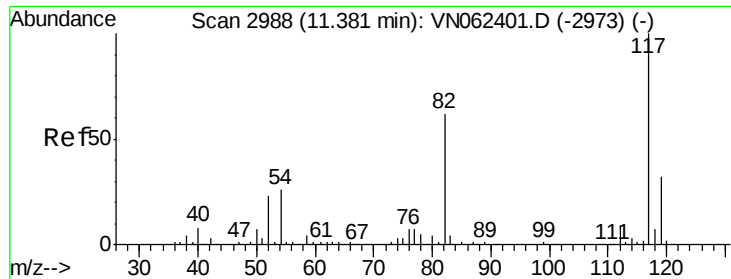


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

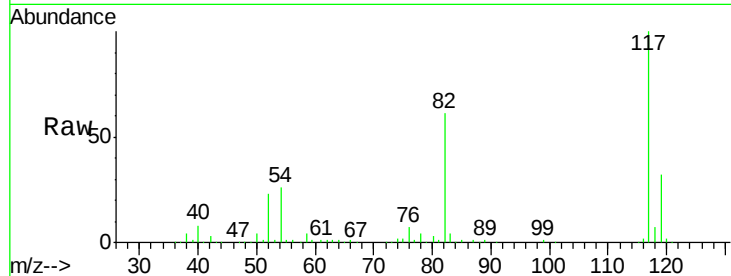




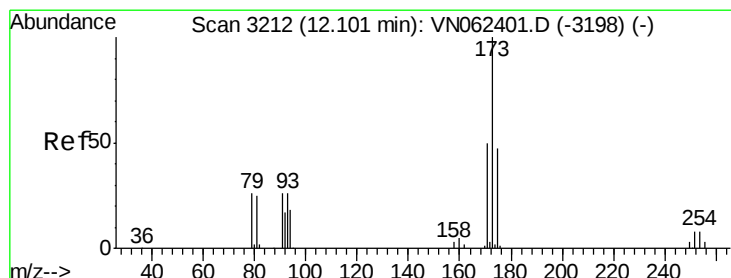
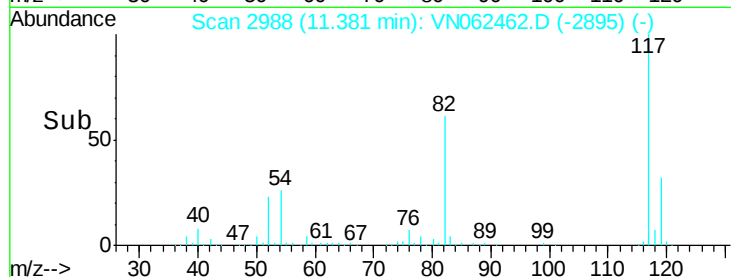
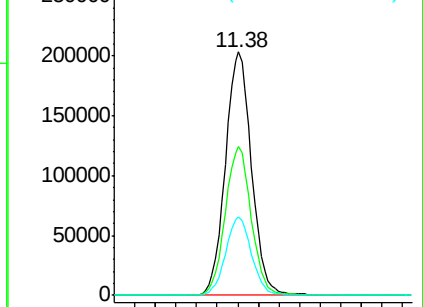
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062462.D
Acq: 9 Jul 2020 18:12

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-594-598RE

Tot Ion:117 Resp: 359251
Ion Ratio Lower Upper
117 100
82 60.9 49.6 74.4
119 32.1 25.4 38.0

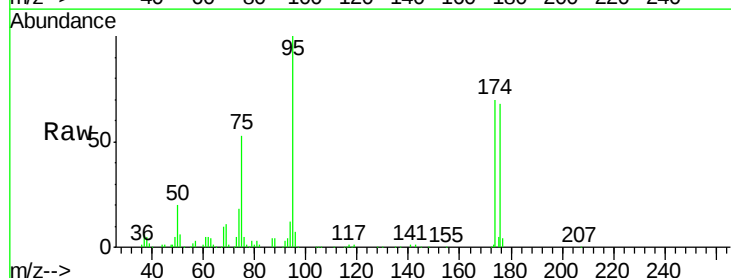


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

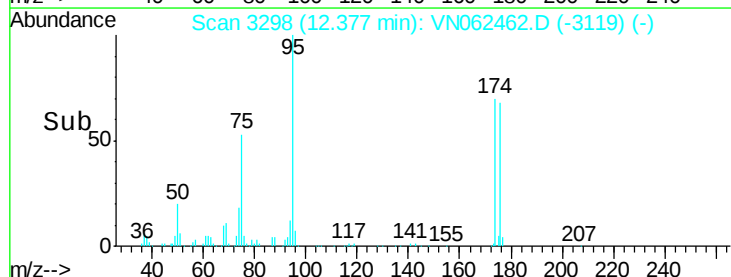
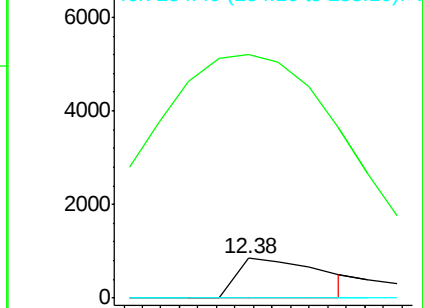


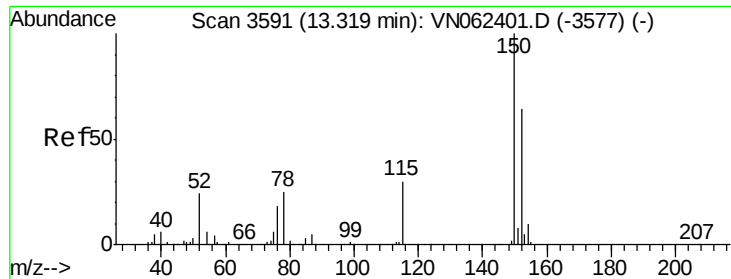
#71
Bromoform
Concen: 0.288 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062462.D
Acq: 9 Jul 2020 18:12

Tgt Ion:173 Resp: 544
Ion Ratio Lower Upper
173 100
175 1389.3 23.7 71.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-594-598RE

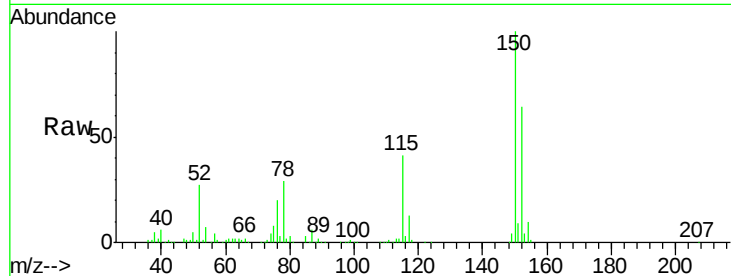
Tot Ion:152 Resp: 132133

Ion Ratio Lower Upper

152 100

115 63.6 31.4 94.2

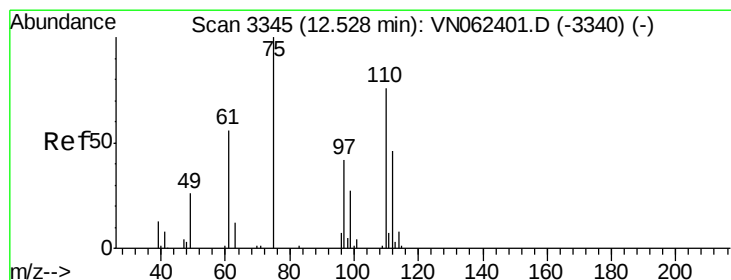
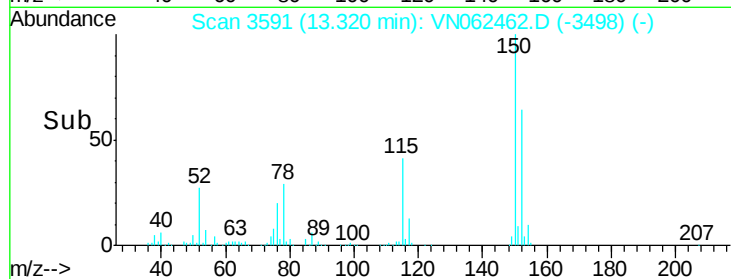
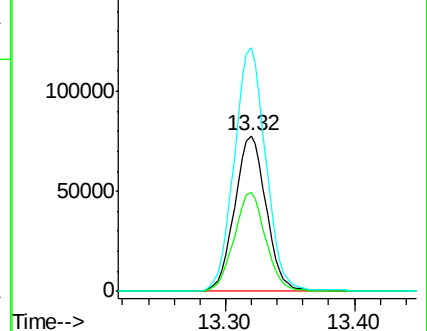
150 157.3 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 28.732 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062462.D

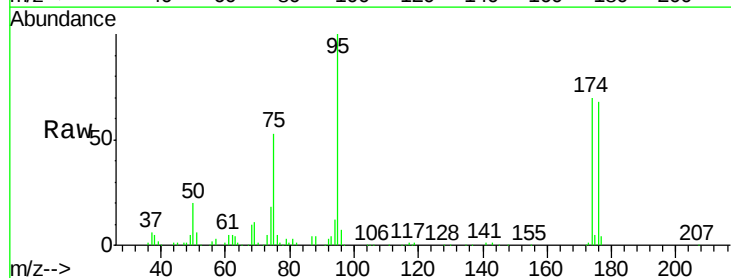
Acq: 9 Jul 2020 18:12

Tgt Ion: 75 Resp: 93153

Ion Ratio Lower Upper

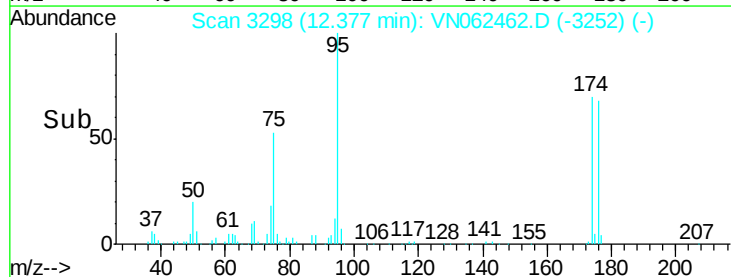
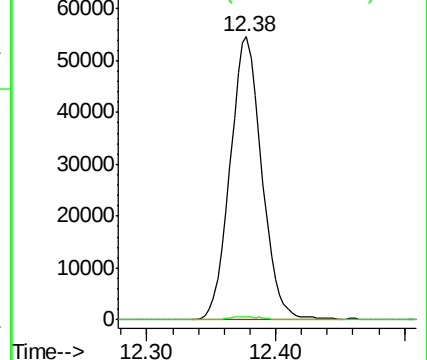
75 100

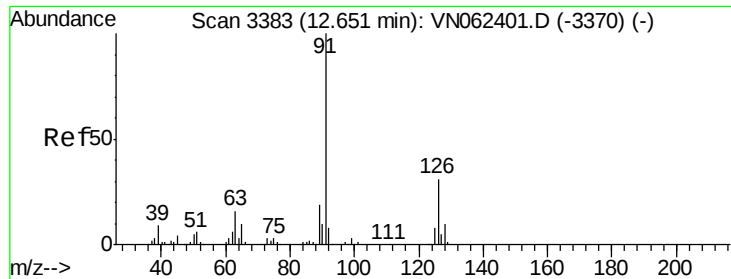
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: 0.311 ug/l

RT: 12.65 min Scan# 3382

Delta R.T. -0.00 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

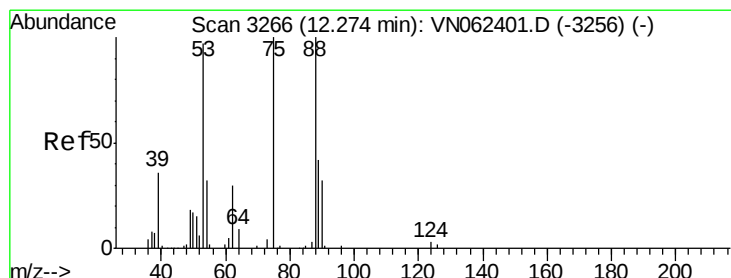
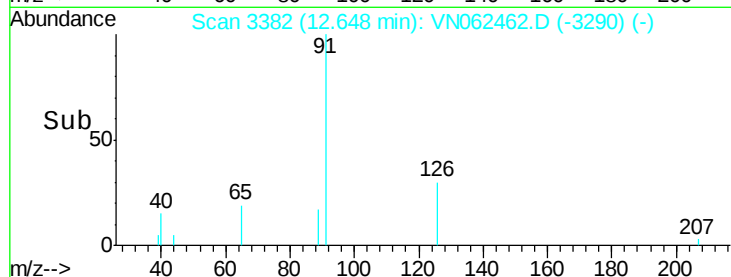
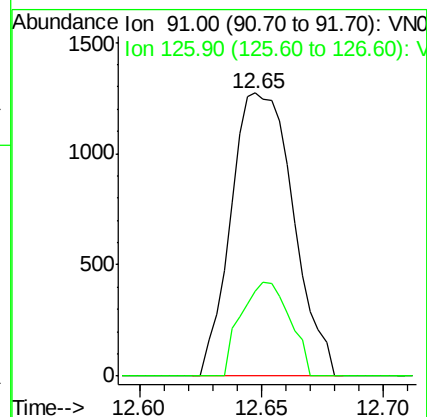
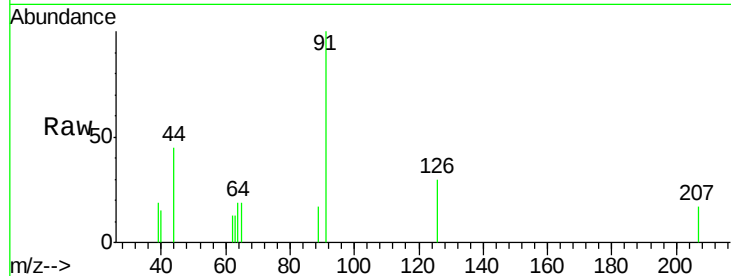
BP-MW180-SOIL-594-598RE

Tot Ion: 91 Resp: 2253

Ion Ratio Lower Upper

91 100

126 26.0 15.6 46.7



#81

trans-1,4-Dichloro-2-butene

Concen: 76.905 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

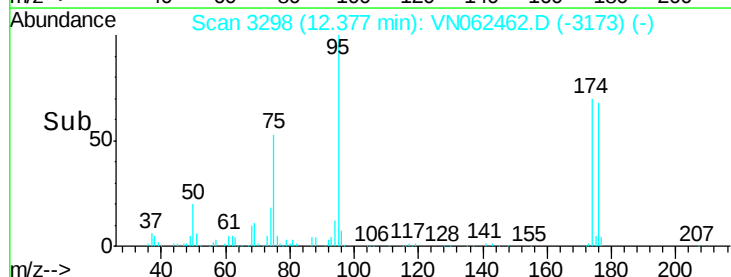
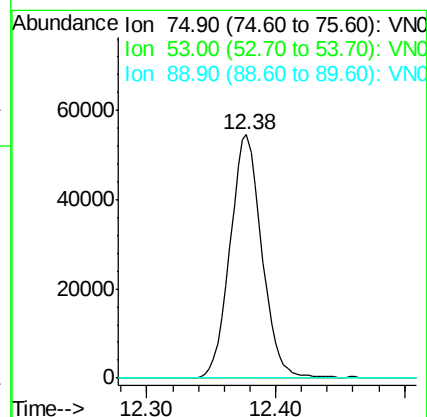
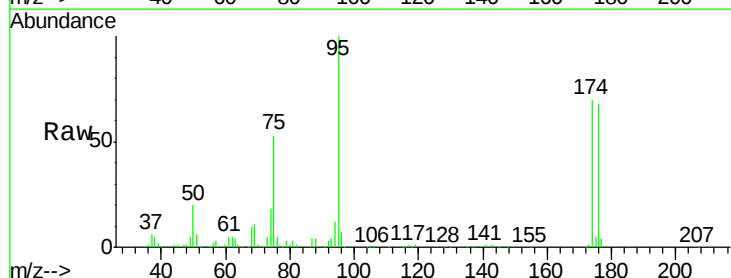
Tgt Ion: 75 Resp: 93153

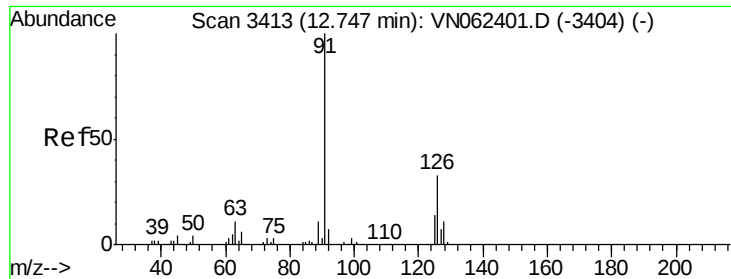
Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

89 0.0 34.6 52.0#





#82

4-Chlorotoluene

Concen: 0.241 ug/l

RT: 12.76 min Scan# 3416

Delta R.T. 0.01 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

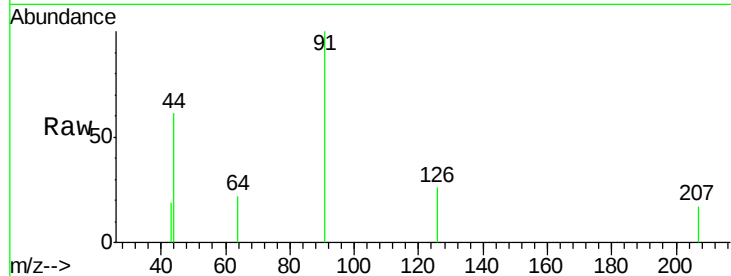
BP-MW180-SOIL-594-598RE

Tot Ion: 91 Resp: 1772

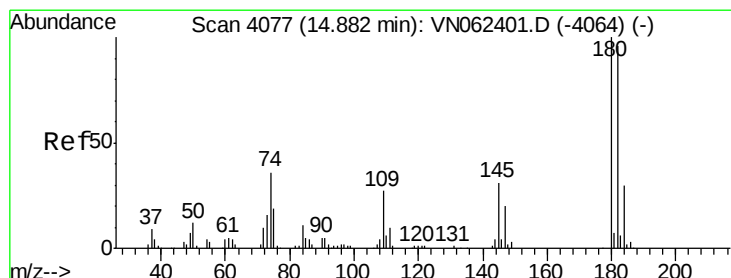
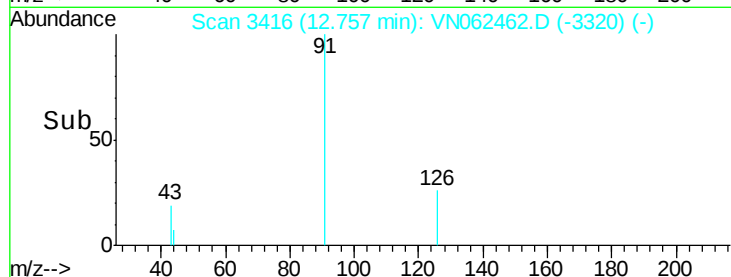
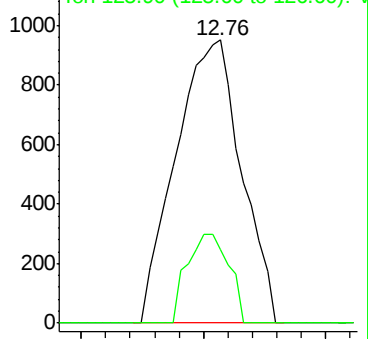
Ion Ratio Lower Upper

91 100

126 19.9 15.2 45.6



Abundance Ion 91.00 (90.70 to 91.70): VN062401.D (-3404) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.846 ug/l

RT: 14.89 min Scan# 4079

Delta R.T. 0.01 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

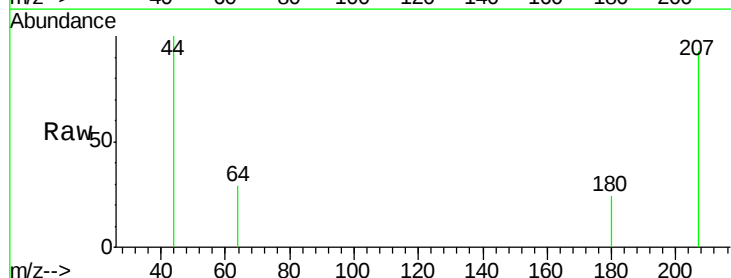
Tgt Ion: 180 Resp: 59

Ion Ratio Lower Upper

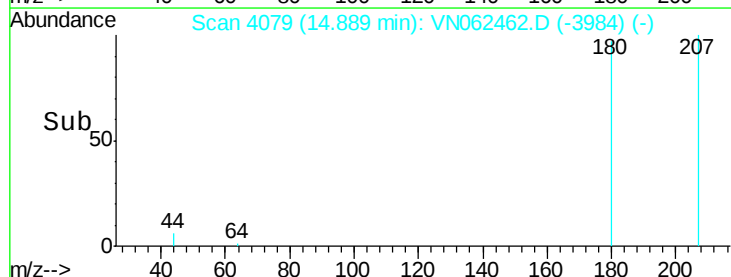
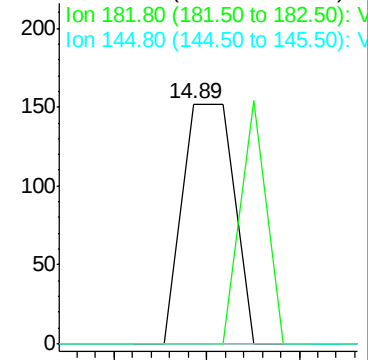
180 100

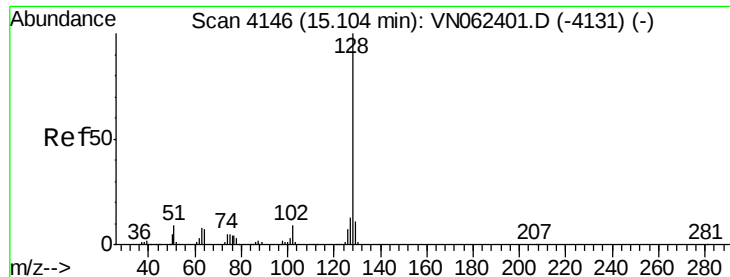
182 50.8 48.4 145.2

145 0.0 15.5 46.5#



Abundance Ion 179.80 (179.50 to 180.50): VN062401.D (-4064) (-)





#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-594-598RE

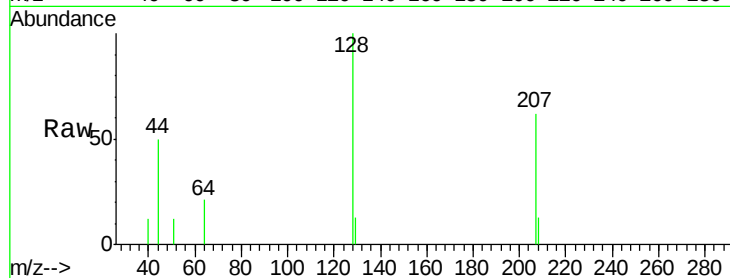
Tot Ion:128 Resp: 2829

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

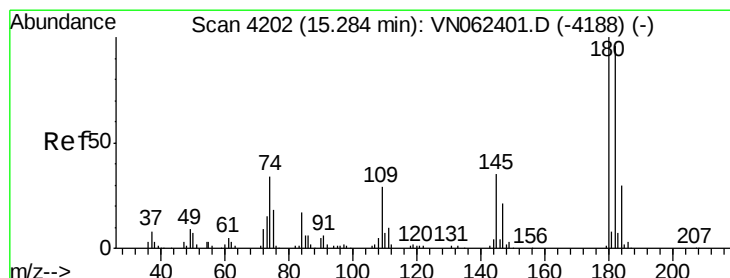
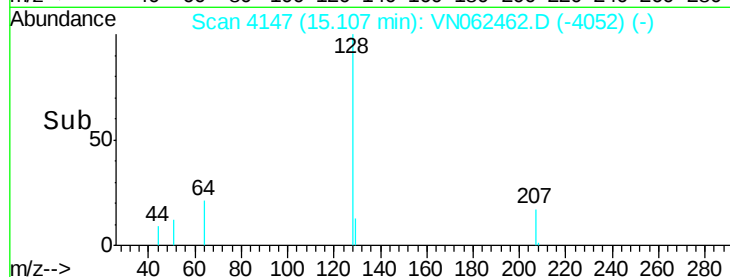
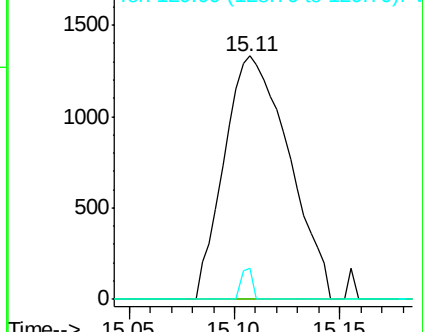
129 2.2 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.275 ug/l

RT: 15.28 min Scan# 4200

Delta R.T. -0.01 min

Lab File: VN062462.D

Acq: 9 Jul 2020 18:12

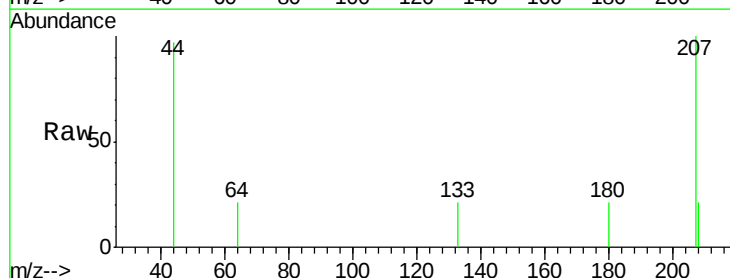
Tgt Ion:180 Resp: 122

Ion Ratio Lower Upper

180 100

182 119.7 47.8 143.4

145 0.0 17.0 50.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

