

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062461.D
 Acq On : 9 Jul 2020 17:48
 Operator : JC/MD
 Sample : L3164-07RE
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-590-594RE

Quant Time: Jul 10 01:06:51 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	202290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	365335	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	345266	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	121922	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	155953	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	
35) Dibromofluoromethane	7.55	113	116124	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
50) Toluene-d8	10.06	98	468689	52.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.14%	
62) 4-Bromofluorobenzene	12.38	95	165252	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	

Target Compounds

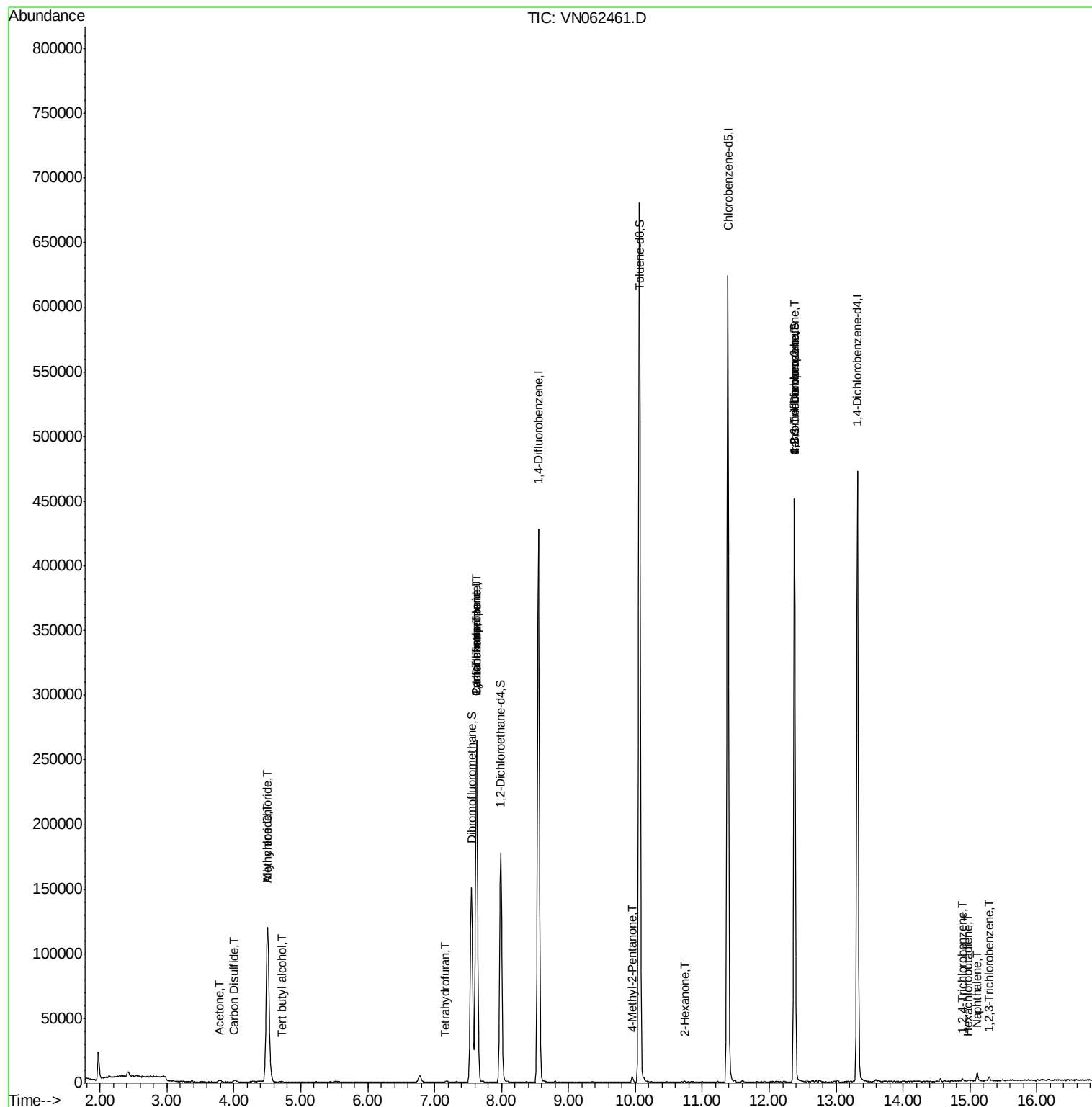
						Qvalue
11) Tert butyl alcohol	4.72	59	290	0.562	ug/l #	74
14) Allyl chloride	4.50	41	3907	0.800	ug/l #	28
16) Acetone	3.78	43	3005	2.275	ug/l #	84
17) Carbon Disulfide	4.01	76	2623	0.403	ug/l #	75
20) Methylene Chloride	4.50	84	87252	30.892	ug/l	92
29) Tetrahydrofuran	7.17	42	539	0.415	ug/l #	54
31) Cyclohexane	7.63	56	5085	1.076	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	17454	4.742	ug/l #	52
38) Carbon Tetrachloride	7.63	117	20703	6.256	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	3016	0.743	ug/l	98
59) 2-Hexanone	10.73	43	1038	0.352	ug/l	71
76) 1,2,3-Trichloropropane	12.37	75	87282	29.176	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	87282	78.093	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.89	180	935	4.261	ug/l #	82
94) Hexachlorobutadiene	14.98	225	279	0.294	ug/l #	18
95) Naphthalene	15.11	128	6048	0.592	ug/l	95
96) 1,2,3-Trichlorobenzene	15.28	180	1216	3.811	ug/l	96

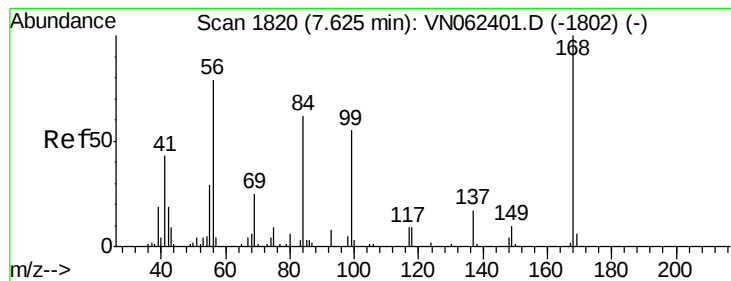
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

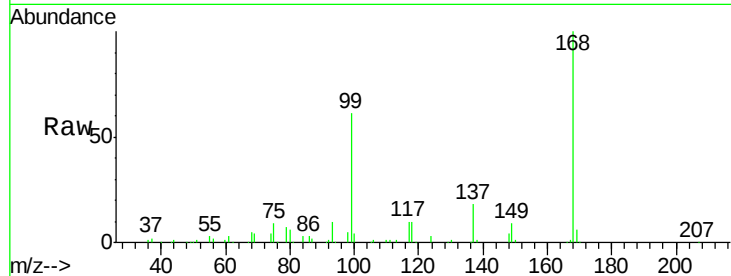
BP-MW180-SOIL-590-594RE

Tot Ion:168 Resp: 202290

Ion Ratio Lower Upper

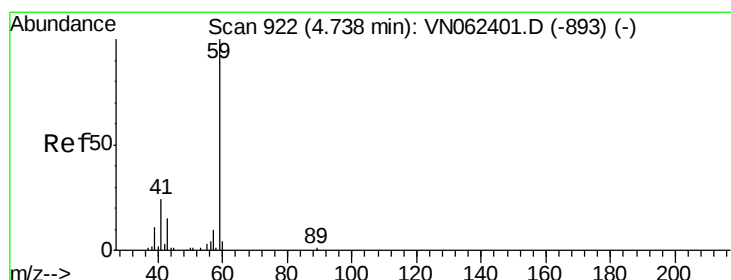
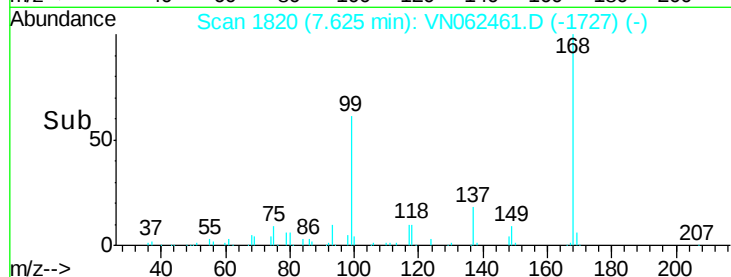
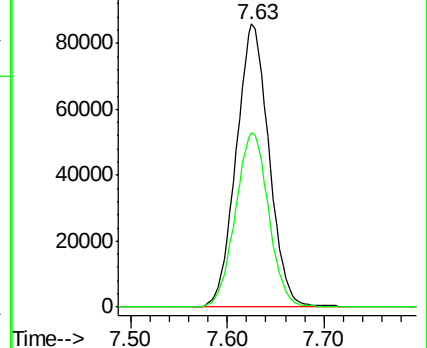
168 100

99 61.5 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.562 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.02 min

Lab File: VN062461.D

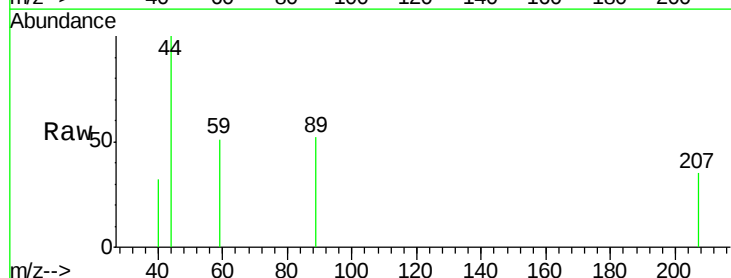
Acq: 9 Jul 2020 17:48

Tgt Ion: 59 Resp: 290

Ion Ratio Lower Upper

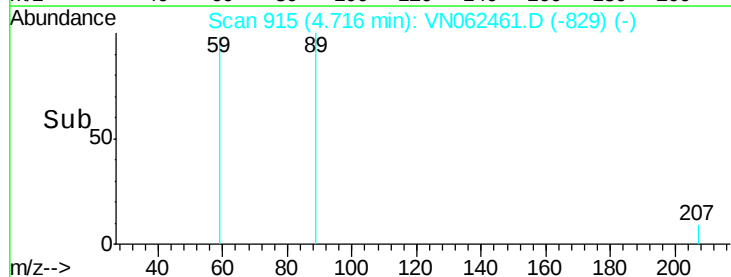
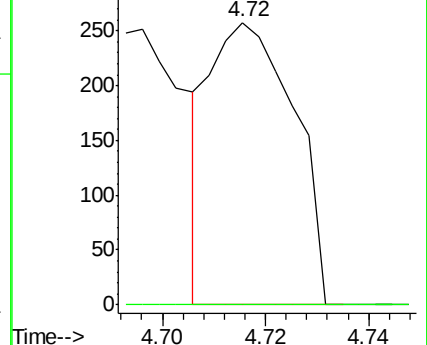
59 100

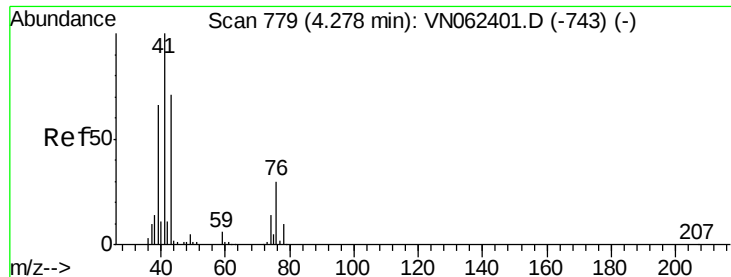
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#14

Allvl chloride

Concen: 0.800 ug/l

RT: 4.50 min Scan# 849

Delta R.T. 0.23 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

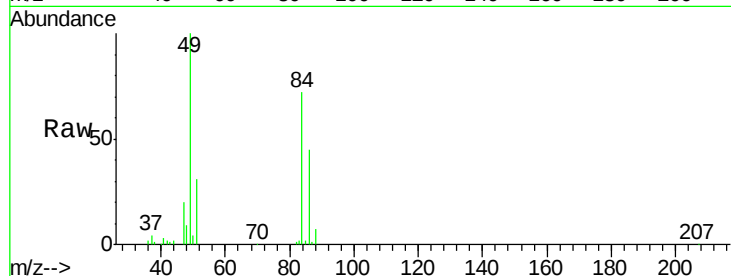
Tot Ion: 41 Resp: 3907

Ion Ratio Lower Upper

41 100

39 0.0 49.6 74.4#

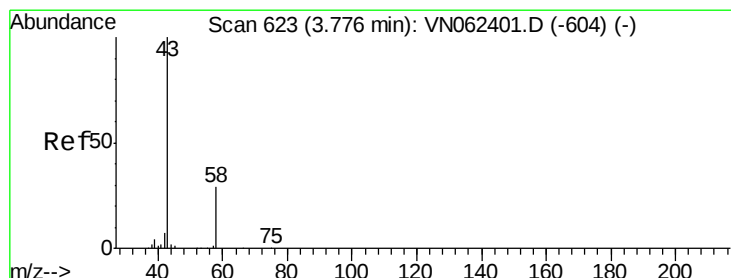
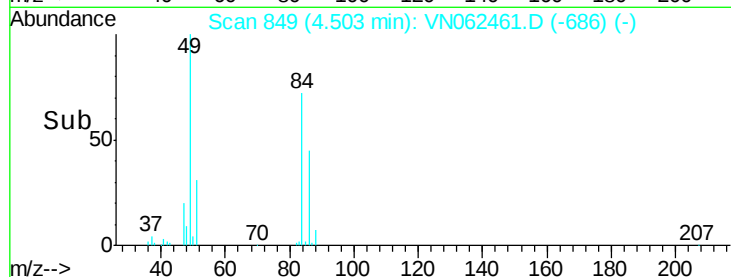
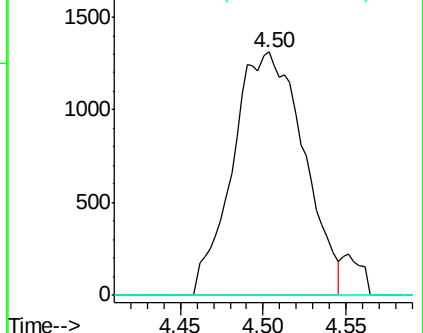
76 0.0 22.2 33.4#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 2.275 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062461.D

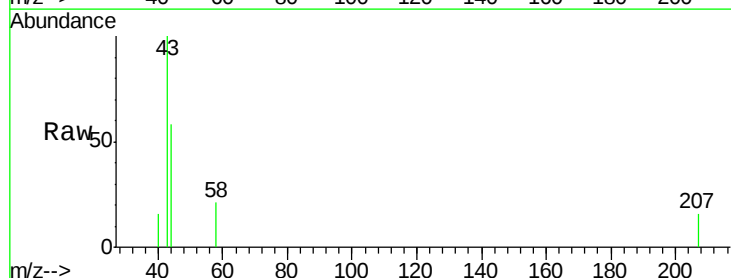
Acq: 9 Jul 2020 17:48

Tgt Ion: 43 Resp: 3005

Ion Ratio Lower Upper

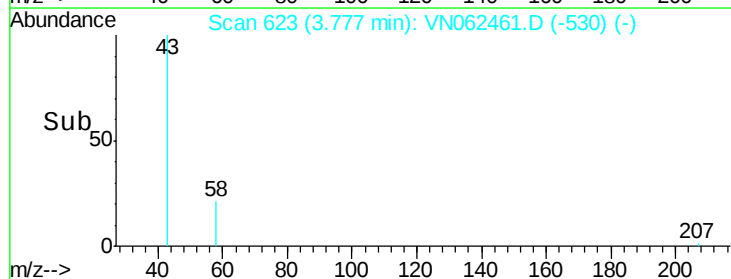
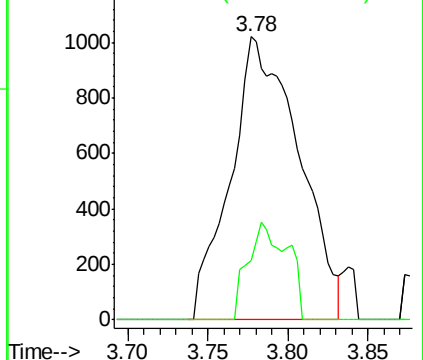
43 100

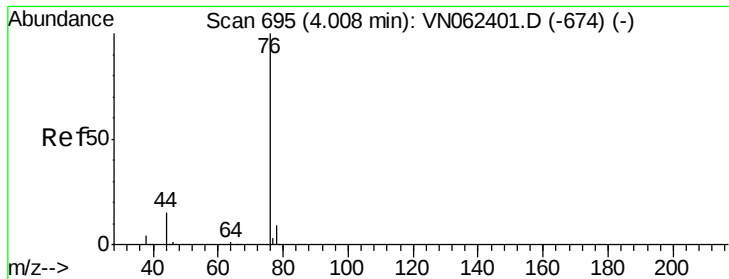
58 21.0 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.403 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

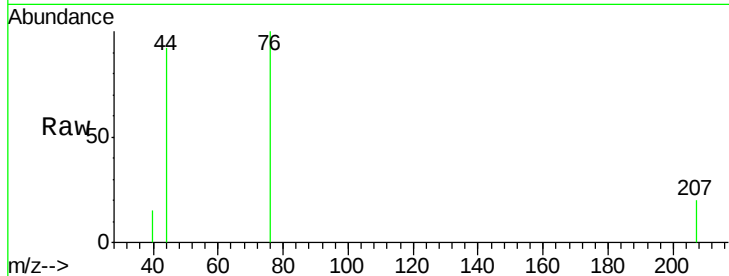
BP-MW180-SOIL-590-594RE

Tot Ion: 76 Resp: 2623

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN062401.D (-674) (-)

Ion 77.90 (77.60 to 78.60): VN062401.D (-674) (-)

4.01

1200

1000

800

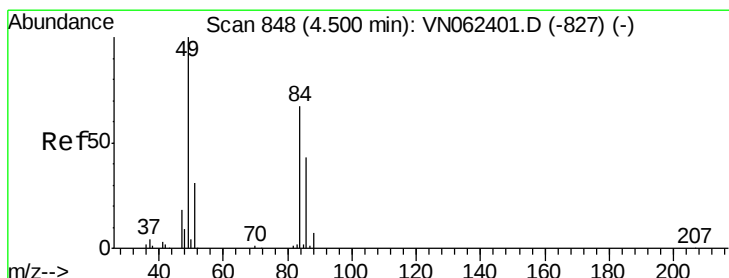
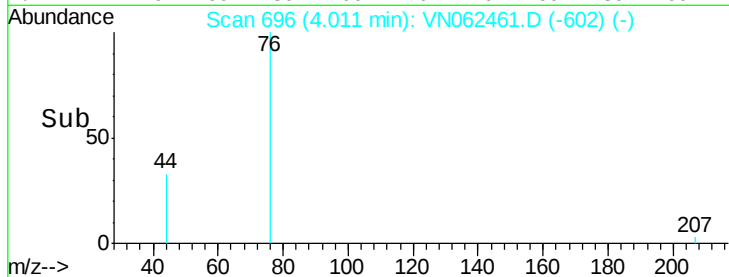
600

400

200

0

Time--> 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 30.892 ug/l

RT: 4.50 min Scan# 849

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Tgt Ion: 84 Resp: 87252

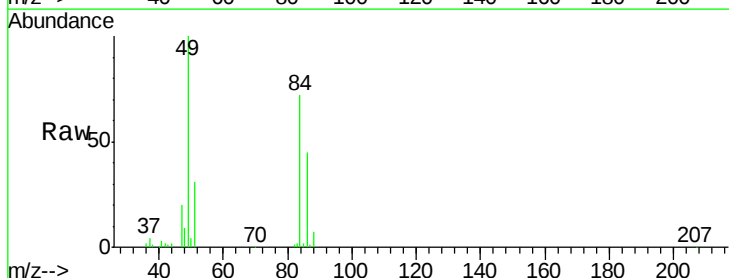
Ion Ratio Lower Upper

84 100

49 137.5 120.0 180.0

51 42.4 37.0 55.6

86 62.2 51.8 77.6



Abundance Ion 83.90 (83.60 to 84.60): VN062401.D (-827) (-)

Ion 48.90 (48.60 to 49.60): VN062401.D (-827) (-)

Ion 50.90 (50.60 to 51.60): VN062401.D (-827) (-)

Ion 85.90 (85.60 to 86.60): VN062401.D (-827) (-)

60000

50000

40000

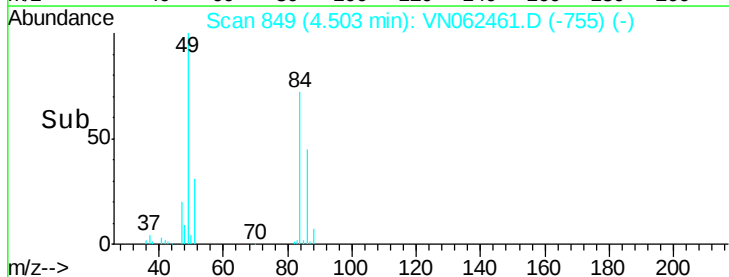
30000

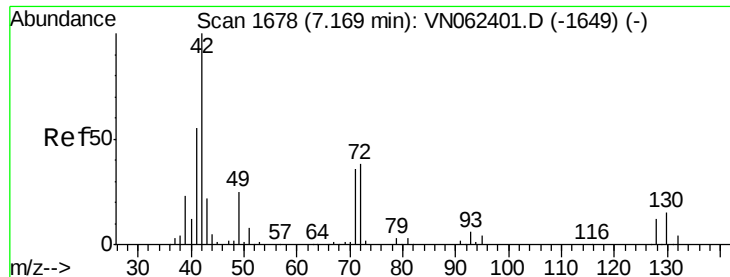
20000

10000

0

Time--> 4.40 4.50 4.60





#29

Tetrahydrofuran

Concen: 0.415 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

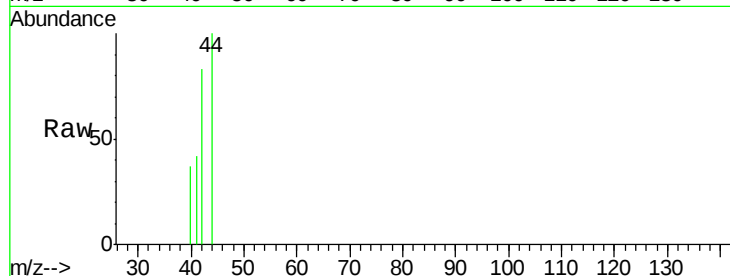
Tot Ion: 42 Resp: 539

Ion Ratio Lower Upper

42 100

72 17.8 29.1 43.7#

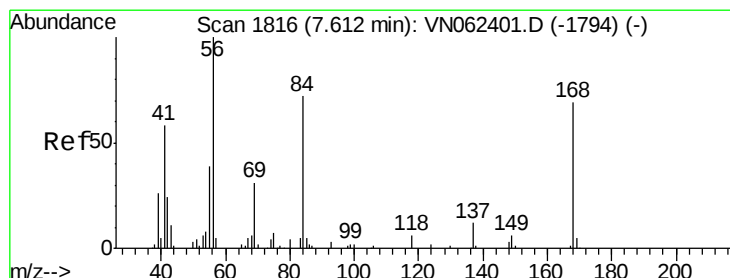
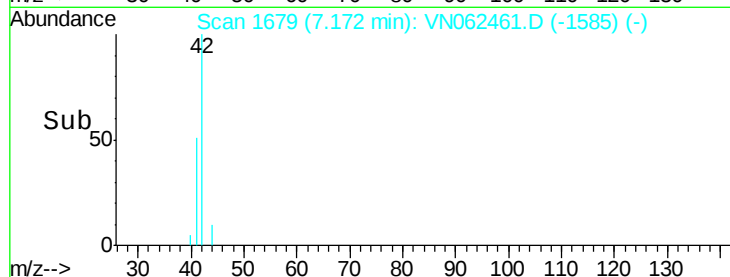
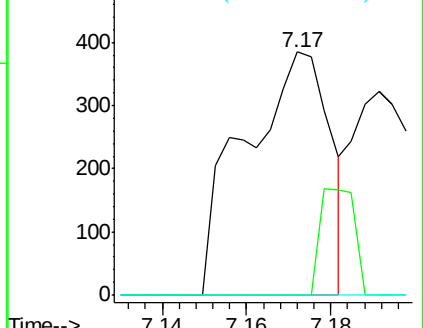
71 0.0 28.1 42.1#



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



#31

Cyclohexane

Concen: 1.076 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

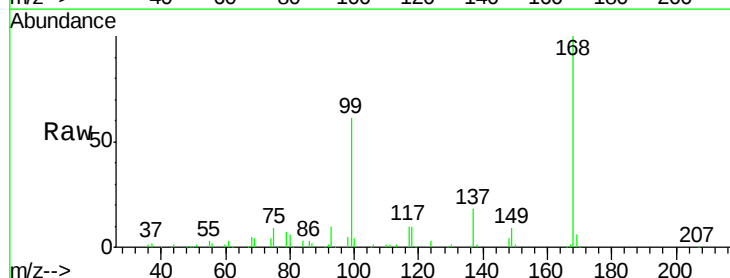
Tgt Ion: 56 Resp: 5085

Ion Ratio Lower Upper

56 100

69 158.1 24.5 36.7#

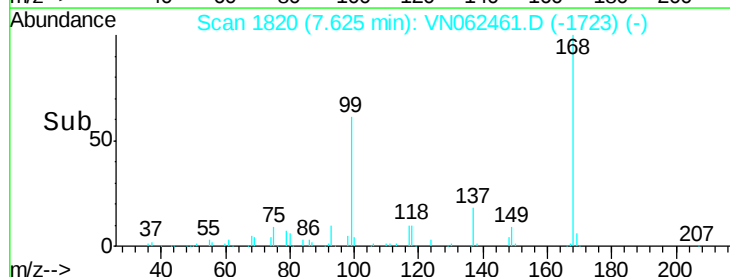
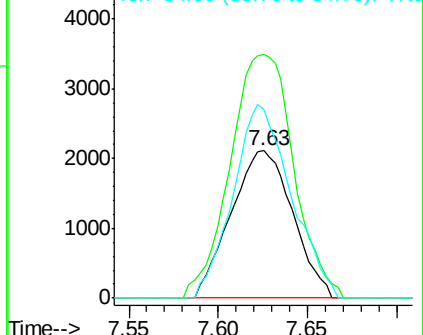
84 128.2 57.4 86.2#

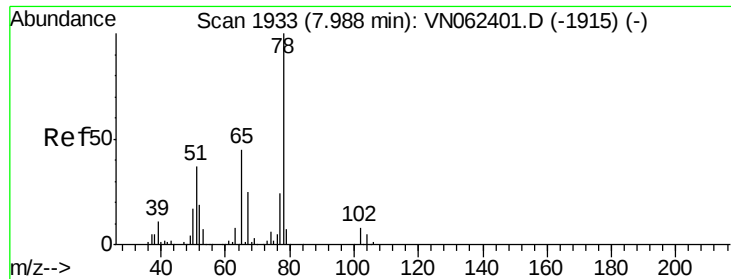


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 50.122 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

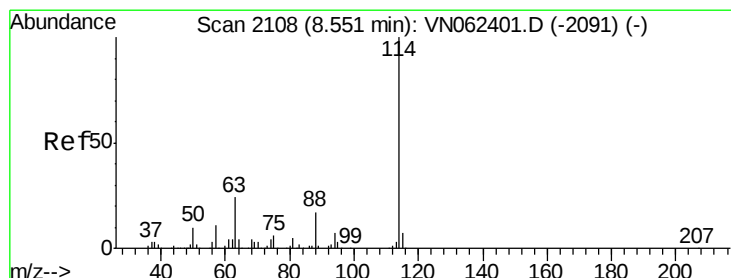
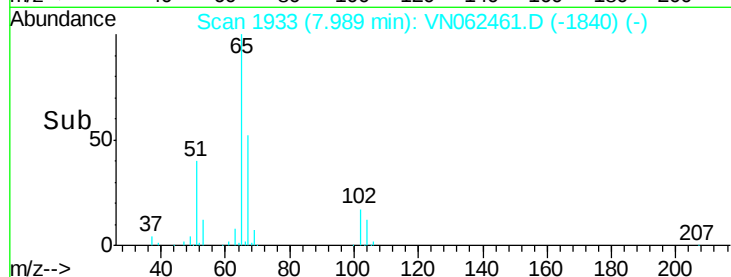
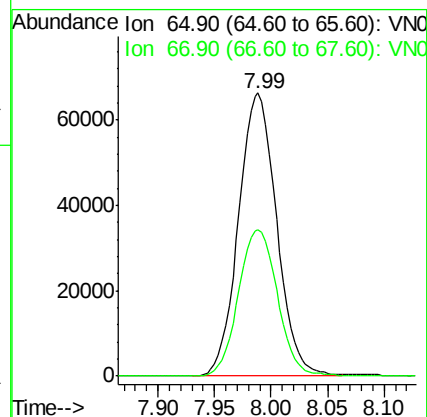
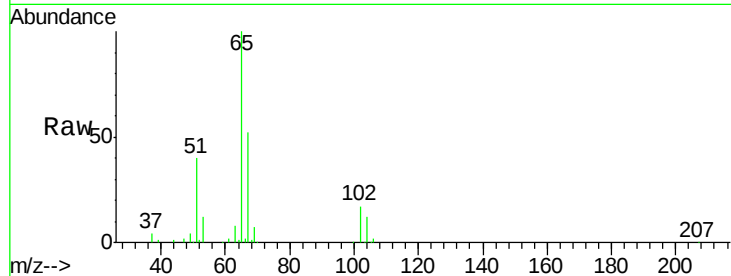
BP-MW180-SOIL-590-594RE

Tot Ion: 65 Resp: 155953

Ion Ratio Lower Upper

65 100

67 53.0 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: VN062461.D

Acq: 9 Jul 2020 17:48

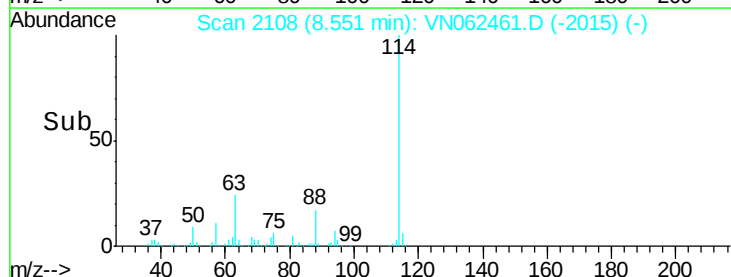
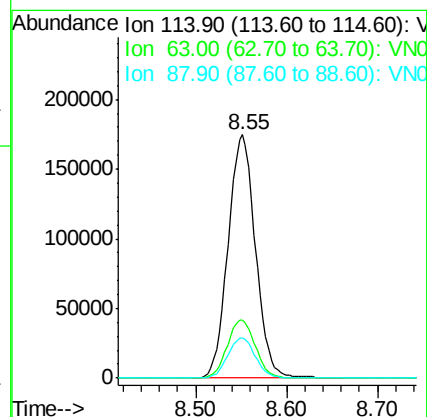
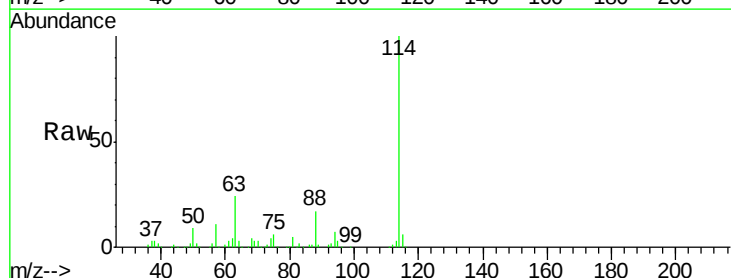
Tgt Ion: 114 Resp: 365335

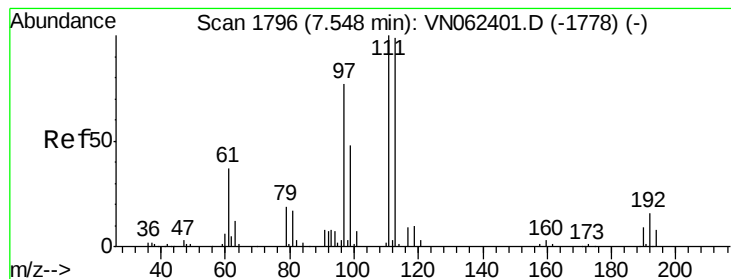
Ion Ratio Lower Upper

114 100

63 23.8 0.0 48.4

88 16.7 0.0 33.8





#35

Dibromofluoromethane

Concen: 51.422 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

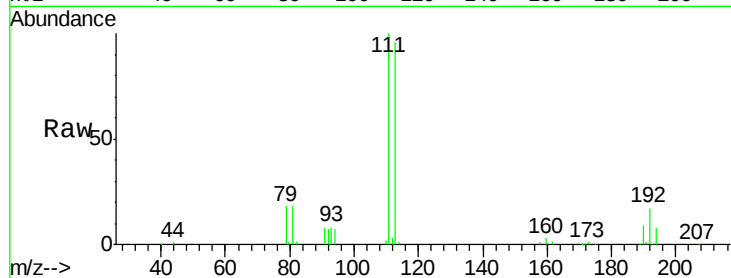
Tot Ion:113 Resp: 116124

Ion Ratio Lower Upper

113 100

111 102.9 83.1 124.7

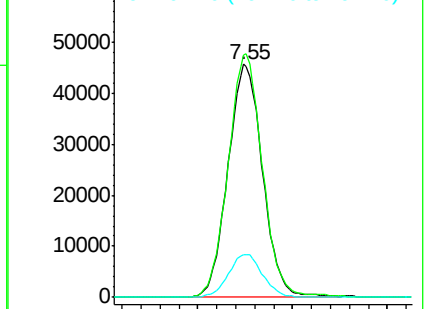
192 18.0 14.1 21.1



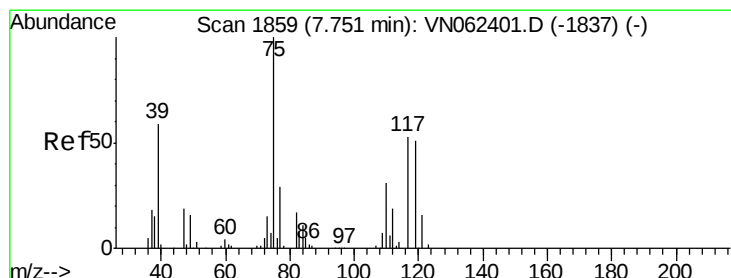
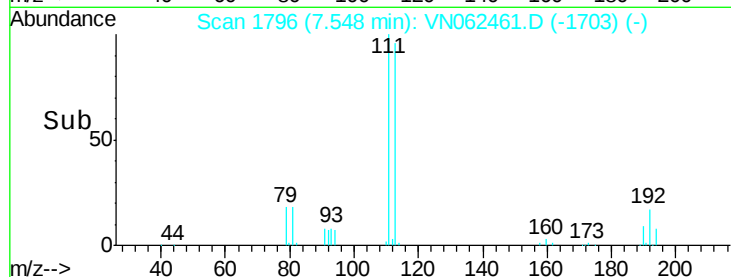
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->



#36

1,1-Dichloropropene

Concen: 4.742 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

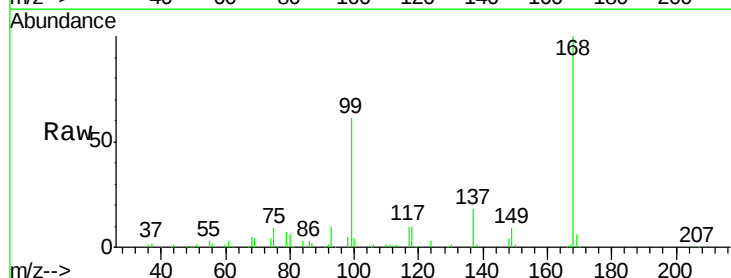
Tgt Ion: 75 Resp: 17454

Ion Ratio Lower Upper

75 100

110 8.8 15.4 46.2#

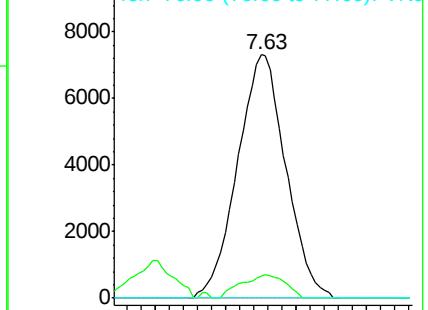
77 0.0 24.1 36.1#



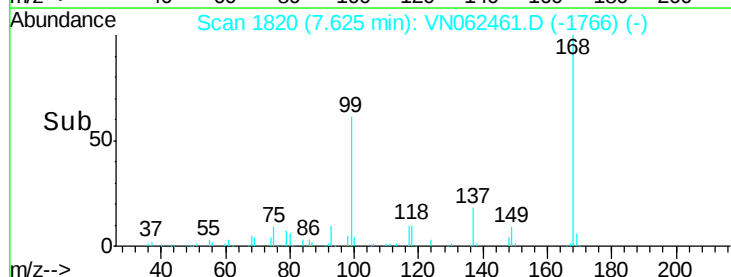
Abundance Ion 74.90 (74.60 to 75.60): V

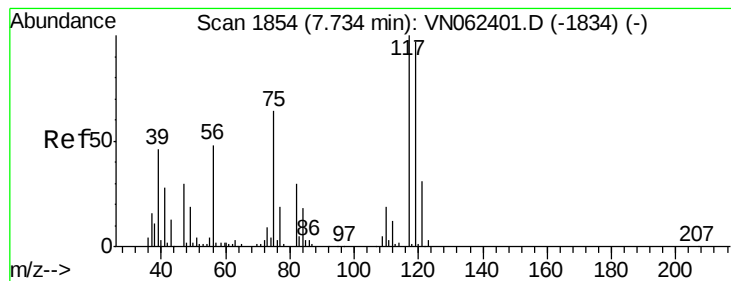
Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



Time-->





#38

Carbon Tetrachloride

Concen: 6.256 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

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BP-MW180-SOIL-590-594RE

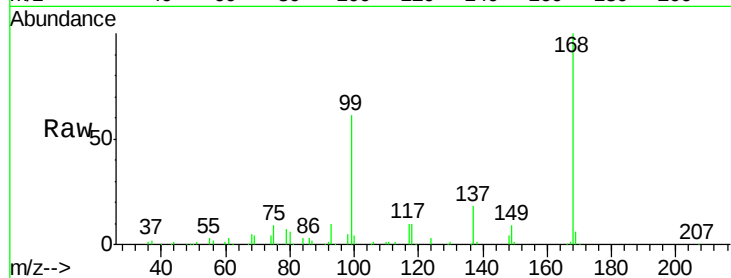
Tot Ion:117 Resp: 20703

Ion Ratio Lower Upper

117 100

119 4.7 77.2 115.8#

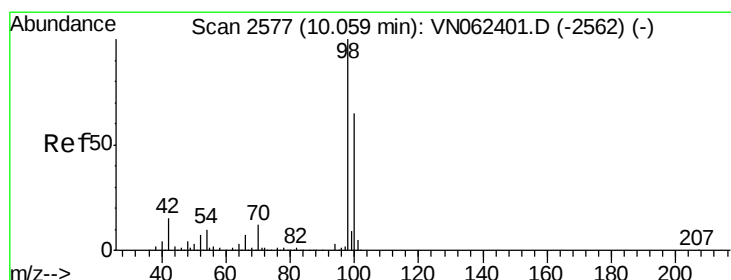
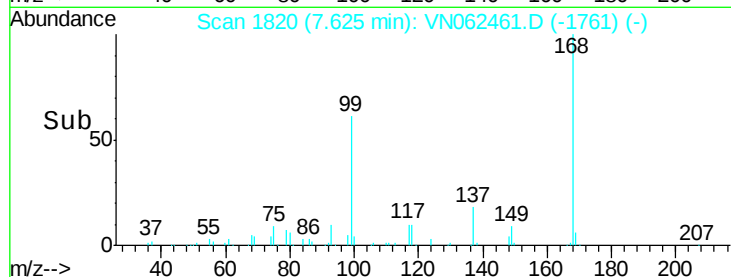
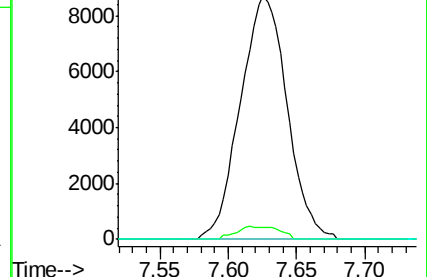
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 52.573 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062461.D

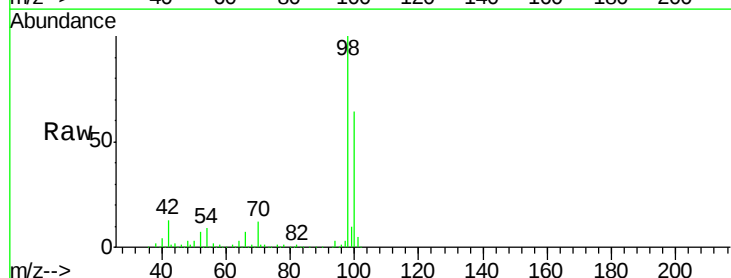
Acq: 9 Jul 2020 17:48

Tgt Ion: 98 Resp: 468689

Ion Ratio Lower Upper

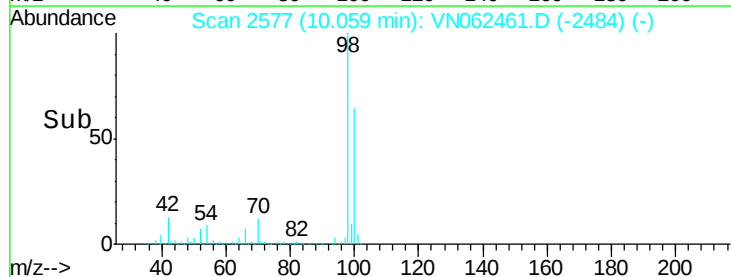
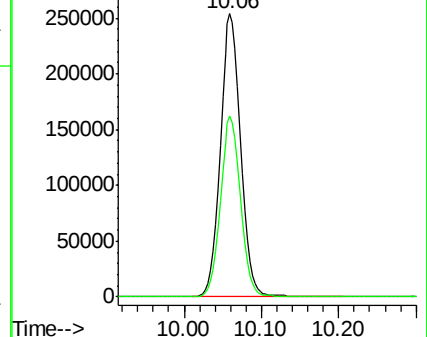
98 100

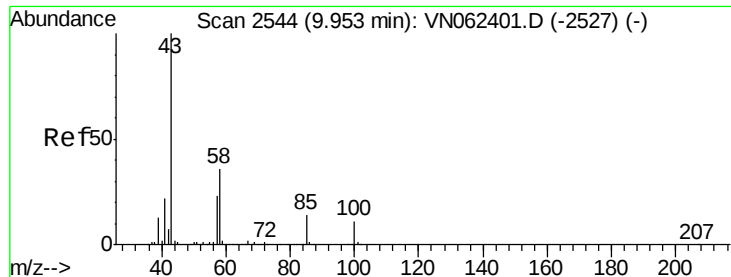
100 63.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.743 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

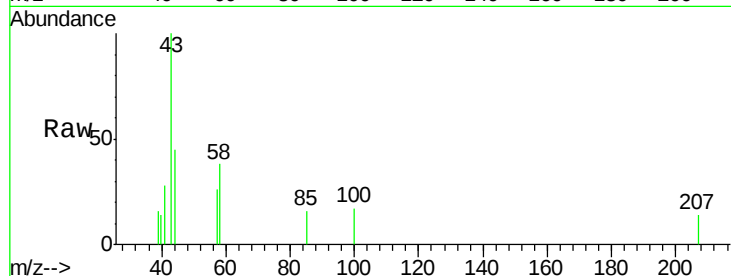
BP-MW180-SOIL-590-594RE

Tot Ion: 43 Resp: 3016

Ion Ratio Lower Upper

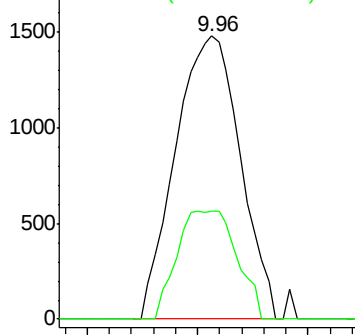
43 100

58 35.1 29.0 43.6

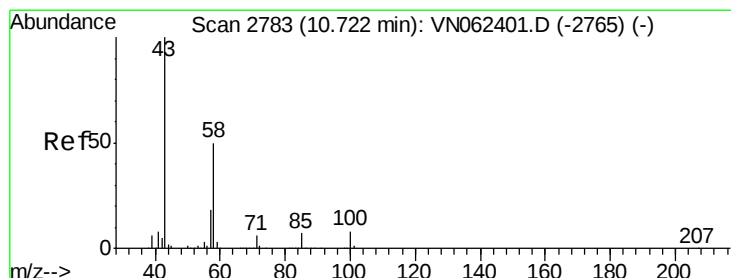
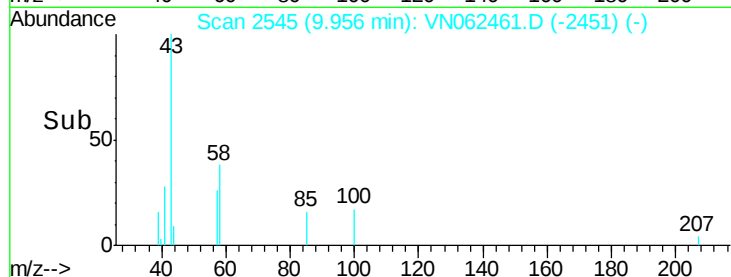


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#59

2-Hexanone

Concen: 0.352 ug/l

RT: 10.73 min Scan# 2786

Delta R.T. 0.01 min

Lab File: VN062461.D

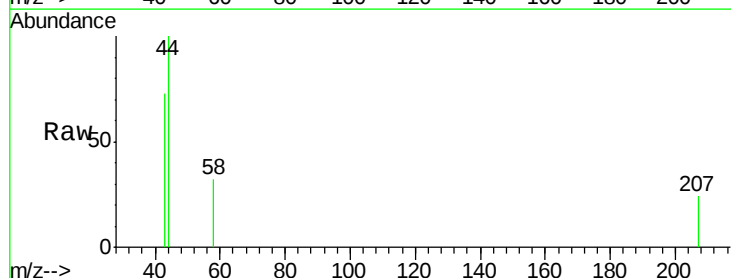
Acq: 9 Jul 2020 17:48

Tgt Ion: 43 Resp: 1038

Ion Ratio Lower Upper

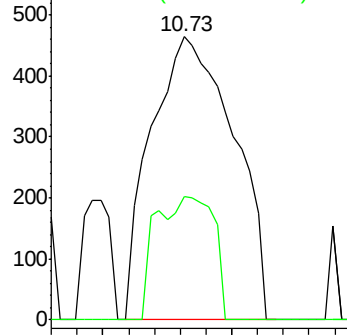
43 100

58 30.2 25.1 75.2

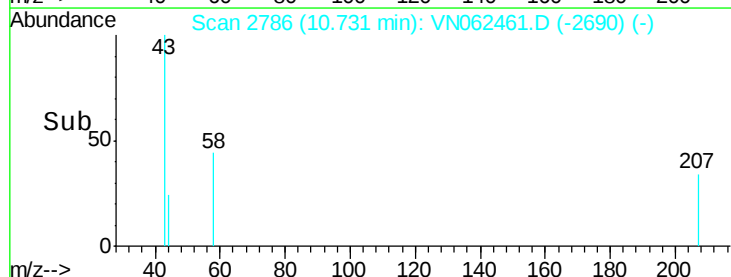


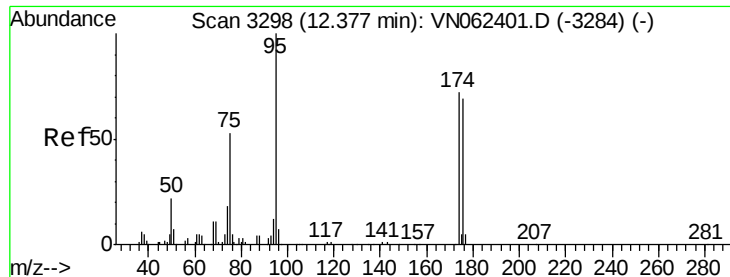
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 50.725 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

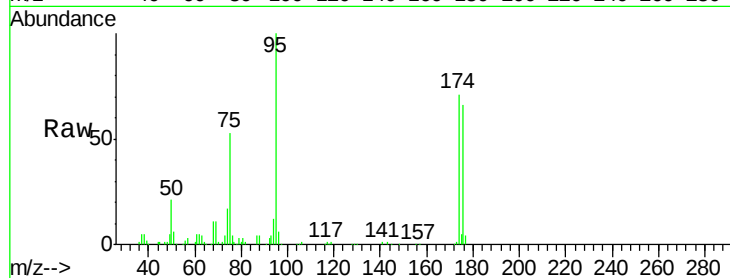
Tot Ion: 95 Resp: 165252

Ion Ratio Lower Upper

95 100

174 69.8 0.0 141.6

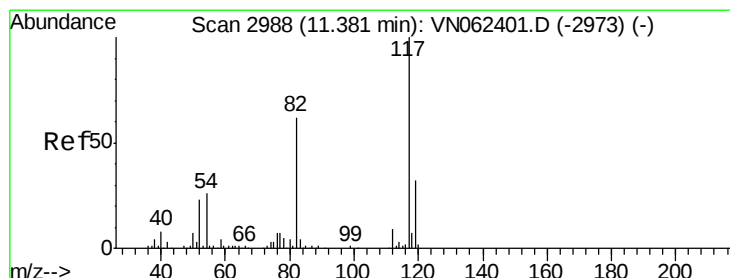
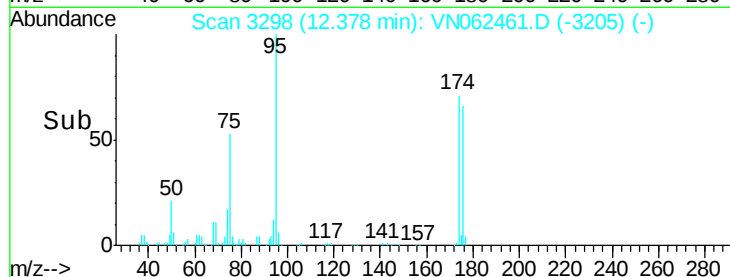
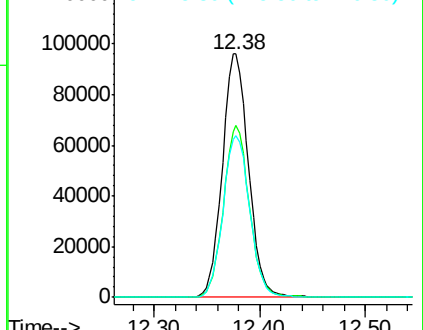
176 67.7 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

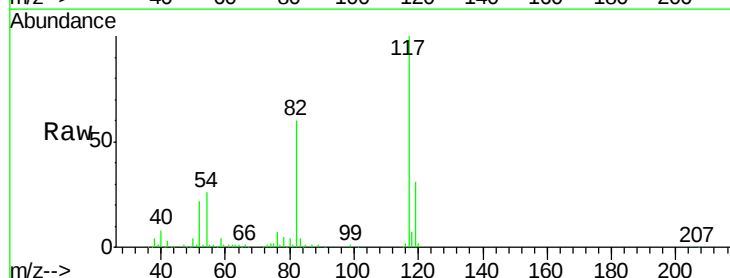
Tgt Ion: 117 Resp: 345266

Ion Ratio Lower Upper

117 100

82 59.8 49.6 74.4

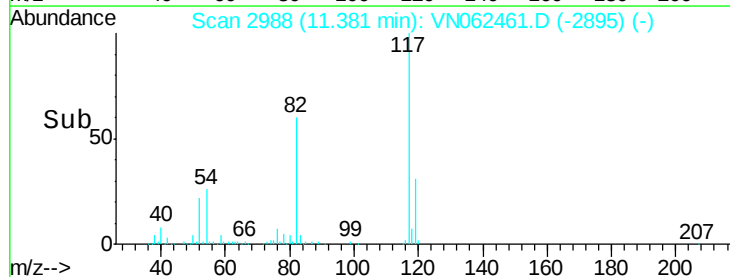
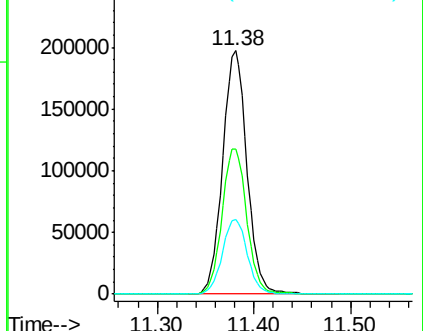
119 30.9 25.4 38.0

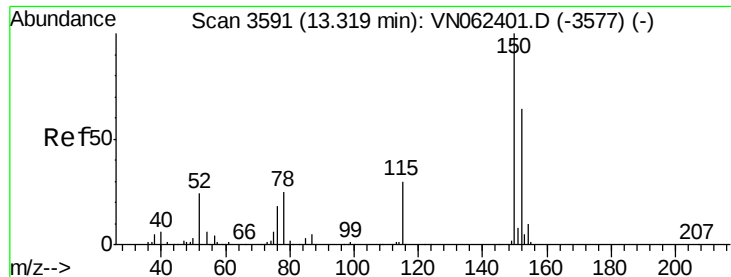


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

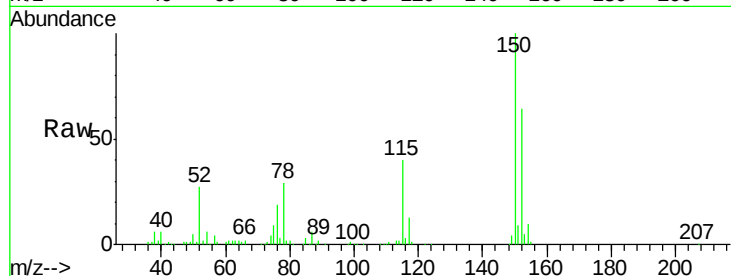
Tot Ion:152 Resp: 121922

Ion Ratio Lower Upper

152 100

115 62.7 31.4 94.2

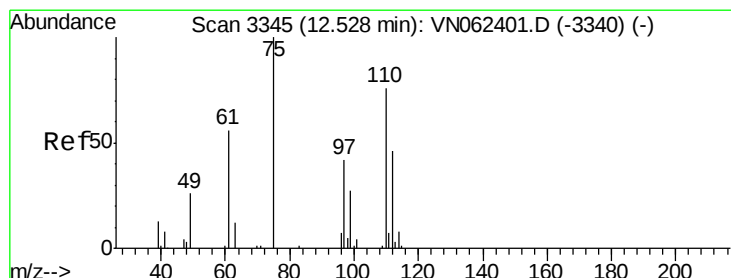
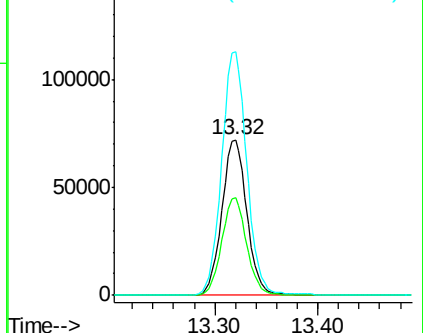
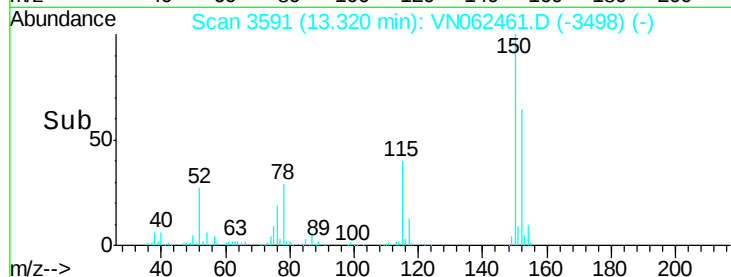
150 157.4 0.0 347.4



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: 29.176 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN062461.D

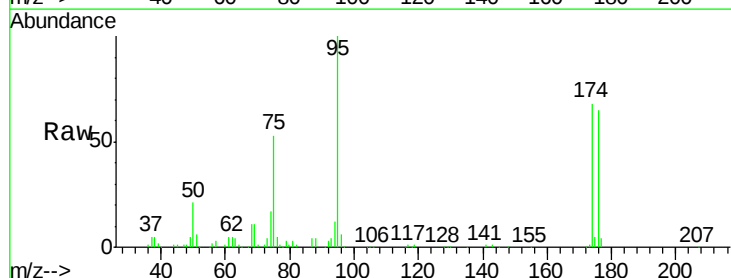
Acq: 9 Jul 2020 17:48

Tgt Ion: 75 Resp: 87282

Ion Ratio Lower Upper

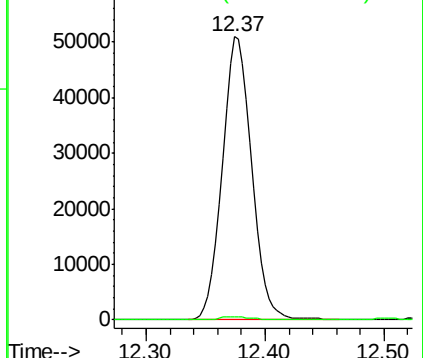
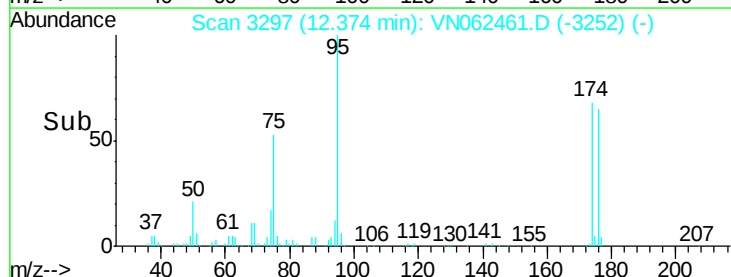
75 100

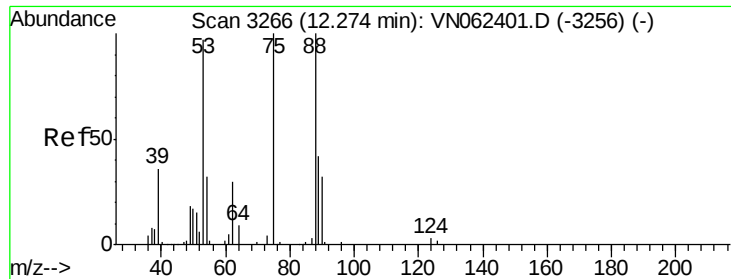
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

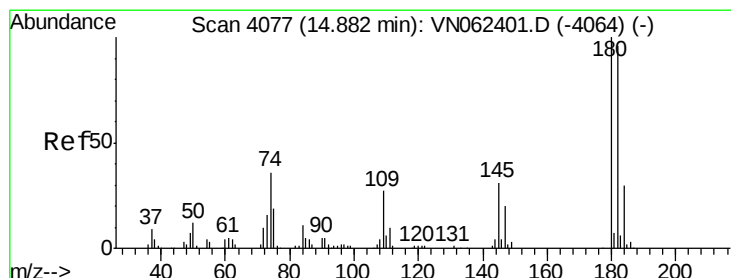
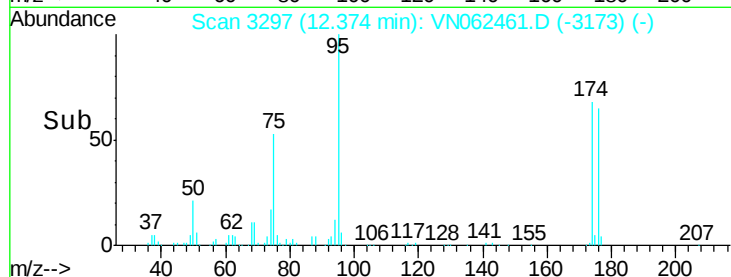
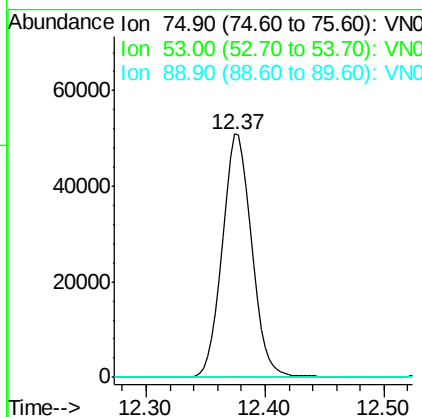
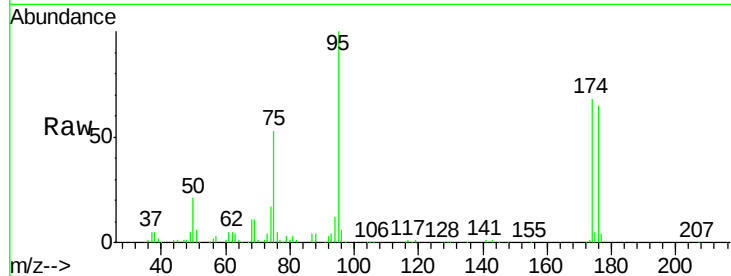




#81
trans-1,4-Dichloro-2-butene
Concen: 78.093 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.10 min
Lab File: VN062461.D
Acq: 9 Jul 2020 17:48

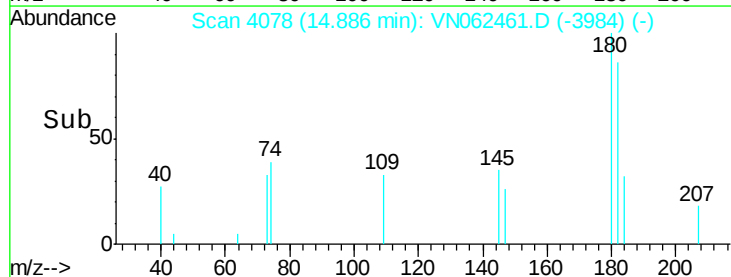
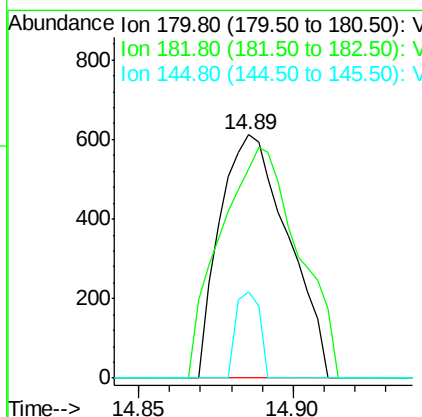
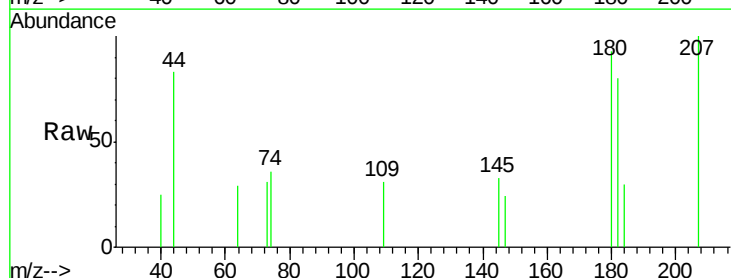
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-590-594RE

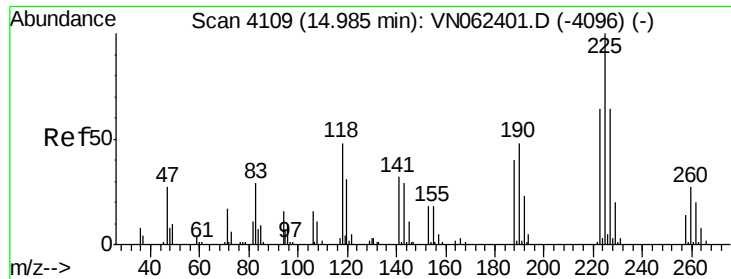
Tot Ion: 75 Resp: 87282
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 34.6 52.0#



#93
1,2,4-Trichlorobenzene
Concen: 4.261 ug/l
RT: 14.89 min Scan# 4078
Delta R.T. 0.00 min
Lab File: VN062461.D
Acq: 9 Jul 2020 17:48

Tgt Ion: 180 Resp: 935
Ion Ratio Lower Upper
180 100
182 109.0 48.4 145.2
145 12.3 15.5 46.5#





#94

Hexachlorobutadiene

Concen: 0.294 ug/l

RT: 14.98 min Scan# 4107

Delta R.T. -0.01 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-590-594RE

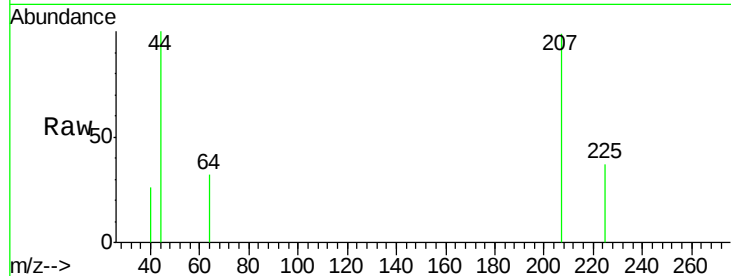
Tot Ion:225 Resp: 279

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.8#

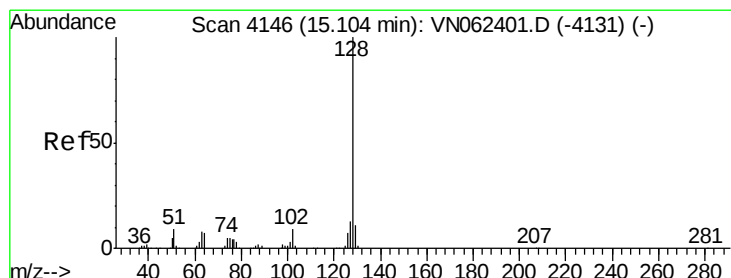
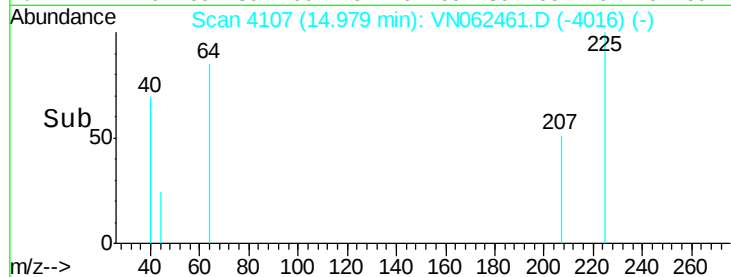
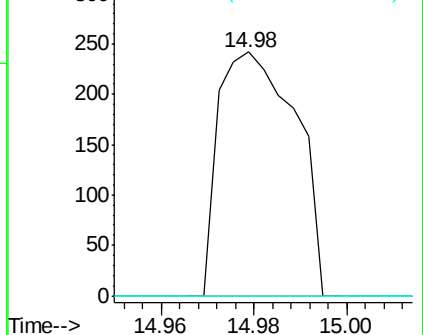
227 0.0 31.9 95.7#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.592 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062461.D

Acq: 9 Jul 2020 17:48

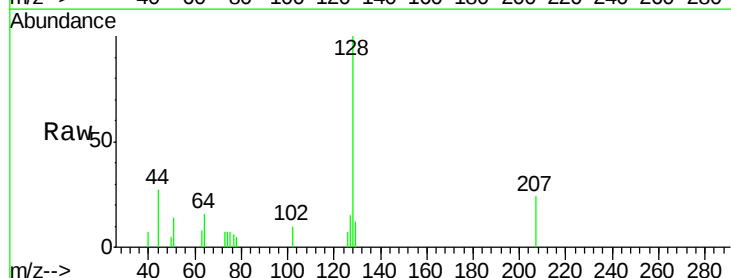
Tgt Ion:128 Resp: 6048

Ion Ratio Lower Upper

128 100

127 10.4 10.2 15.2

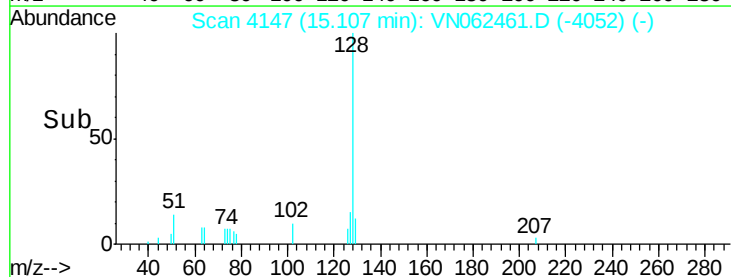
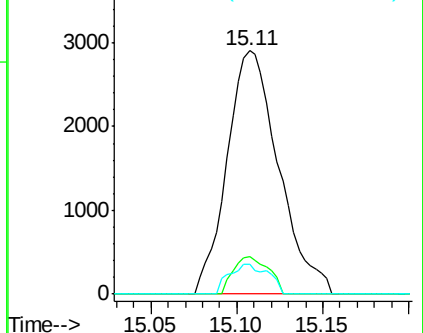
129 9.2 8.6 12.8

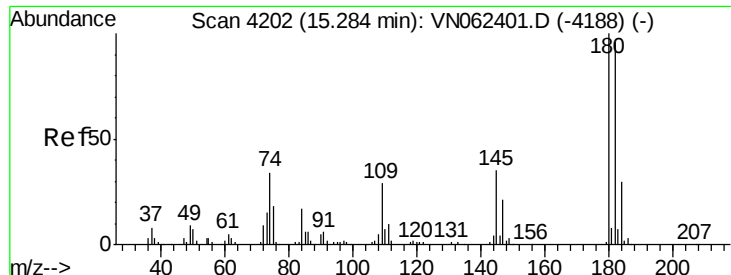


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.811 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. 0.00 min
 Lab File: VN062461.D
 Acq: 9 Jul 2020 17:48

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-590-594RE

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.8	143.4
145	38.6	17.0	50.9

