

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG050118\
 Data File : BG034092.D
 Acq On : 1 May 2018 23:40
 Operator : SJ/JU
 Sample : J2133-03
 Misc : 2PPM MDL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 MDL-SOIL-03-QT2-2018

Quant Time: May 02 16:00:31 2018
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG050118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 01 19:08:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	55652	20.00	ng	0.00
21) Naphthalene-d8	10.89	136	236436	20.00	ng	0.00
38) Acenaphthene-d10	14.72	164	191273	20.00	ng	0.00
63) Phenanthrene-d10	17.47	188	520268	20.00	ng	0.00
75) Chrysene-d12	21.76	240	574270	20.00	ng	0.00
86) Perylene-d12	25.05	264	562304	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.63	112	484572	140.68	ng	0.00
7) Phenol-d6	7.22	99	714177	133.18	ng	0.00
23) Nitrobenzene-d5	9.24	82	518761	84.18	ng	0.00
41) 2,4,6-Tribromophenol	16.20	330	366646	138.43	ng	0.00
44) 2-Fluorobiphenyl	13.34	172	1122516	85.52	ng	0.00
78) Terphenyl-d14	20.09	244	2199526	83.91	ng	0.00

Target Compounds

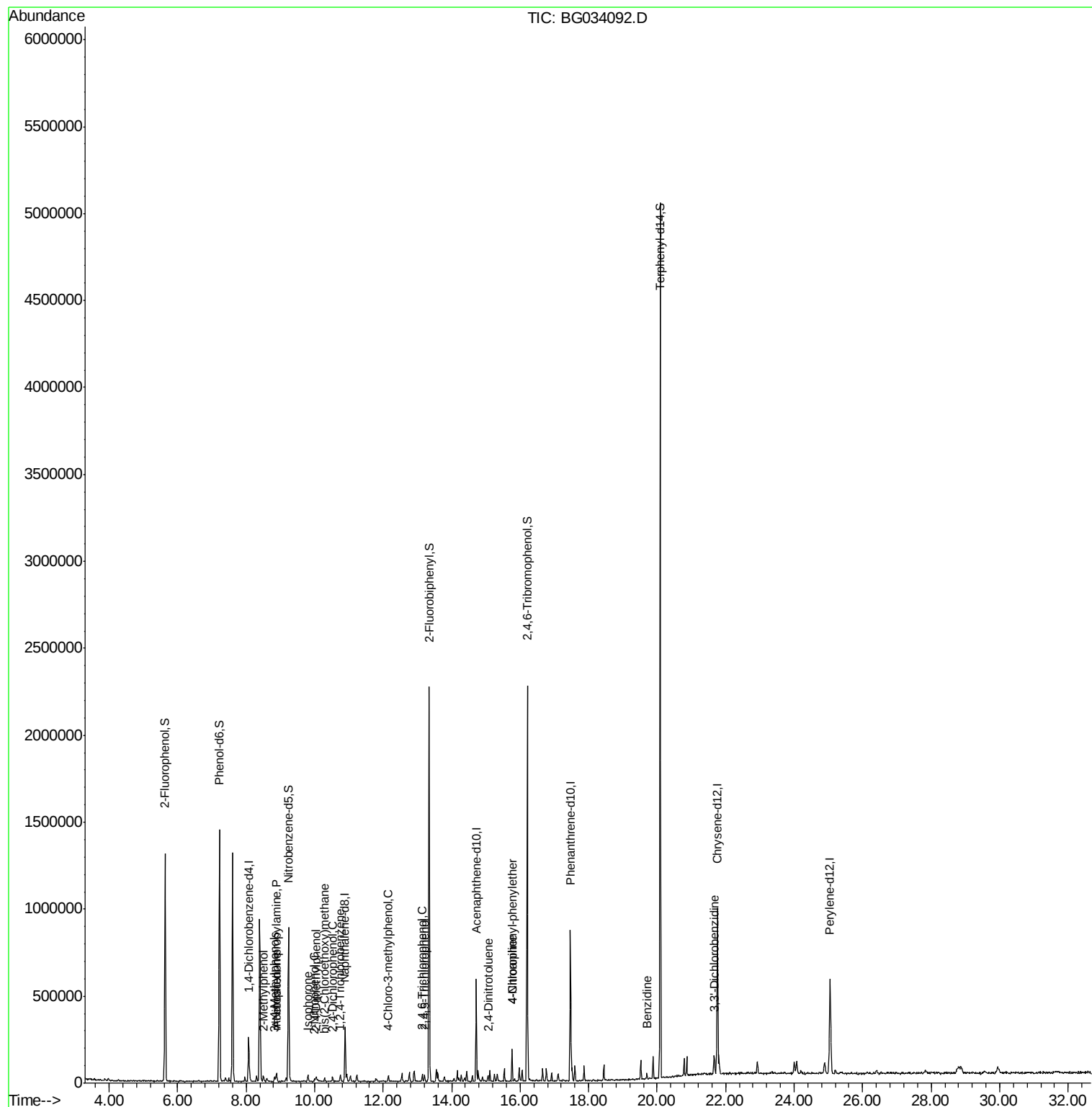
						Qvalue
17) 2-Methylphenol	8.50	107	7302	2.052	ng	# 62
19) n-Nitroso-di-n-propylamine	8.87	70	11596	2.408	ng	# 89
20) 3+4-Methylphenols	8.83	107	9566	1.815	ng	# 68
22) Acetophenone	8.90	105	17367	2.156	ng	# 86
25) Isophorone	9.80	82	24867	1.978	ng	# 89
26) 2-Nitrophenol	9.99	139	3710	1.987	ng	# 62
27) 2,4-Dimethylphenol	10.05	122	6079	1.679	ng	# 98
28) bis(2-Chloroethoxy)methane	10.29	93	12206	1.977	ng	# 87
29) 2,4-Dichlorophenol	10.52	162	6975	1.612	ng	# 82
30) 1,2,4-Trichlorobenzene	10.76	180	10422	2.000	ng	# 94
36) 4-Chloro-3-methylphenol	12.15	107	10778	1.921	ng	# 92
42) 2,4,6-Trichlorophenol	13.14	196	8775	2.041	ng	# 95
43) 2,4,5-Trichlorophenol	13.21	196	9475	1.993	ng	# 96
56) 2,4-Dinitrotoluene	15.06	165	6833	1.580	ng	# 86
60) 4-Chlorophenyl-phenylether	15.76	204	18900	2.048	ng	# 94
61) 4-Nitroaniline	15.76	138	5942	1.745	ng	# 53
76) Benzidine	19.70	184	16304	1.102	ng	# 90
81) 3,3'-Dichlorobenzidine	21.66	252	26226	1.884	ng	# 90

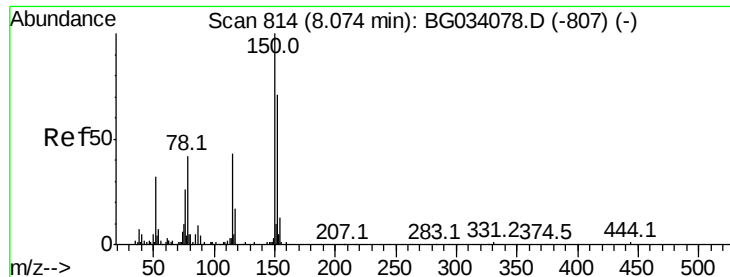
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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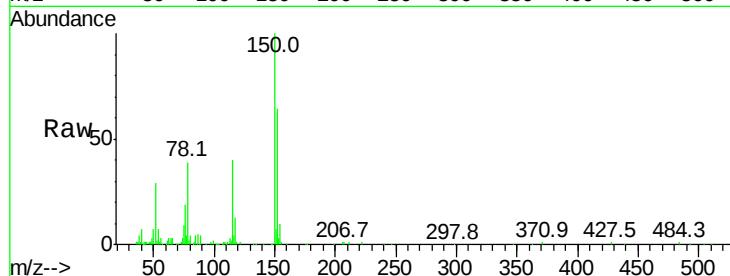


#1

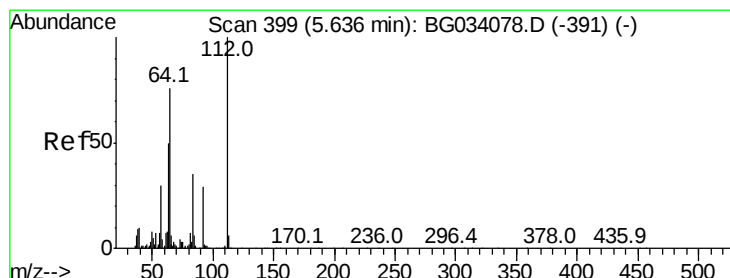
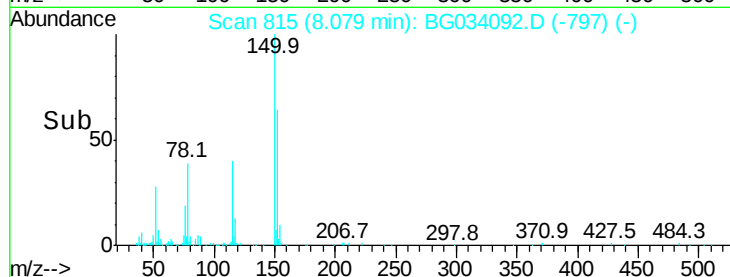
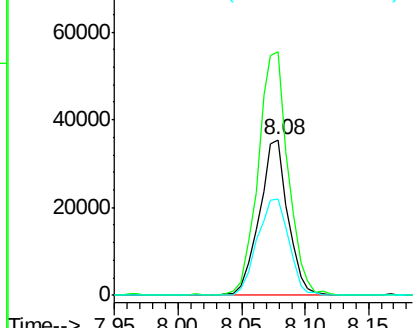
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.08 min Scan# 815
Delta R.T. 0.00 min
Lab File: BG034092.D
Acq: 1 May 2018 23:40

Instrument :
BNA_G
ClientSampleId :
MDL-SOIL-03-QT2-2018

Tot Ion:152 Resp: 55652
Ion Ratio Lower Upper
152 100
150 156.3 126.6 189.8
115 62.1 53.0 79.4



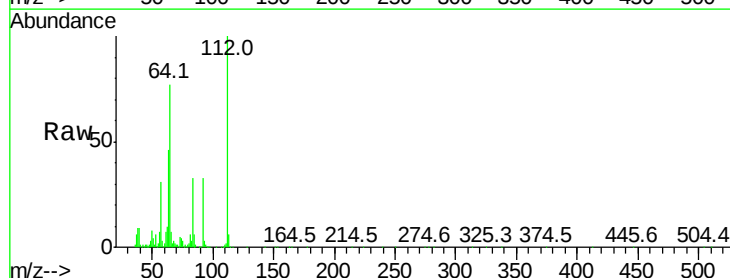
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



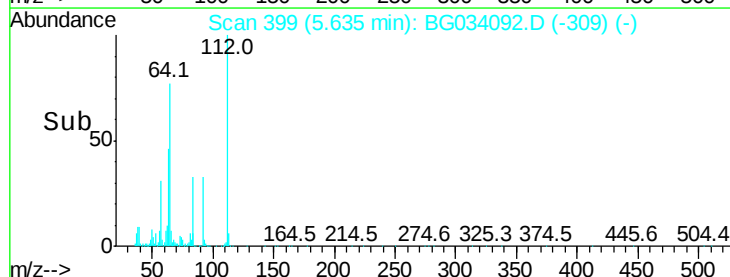
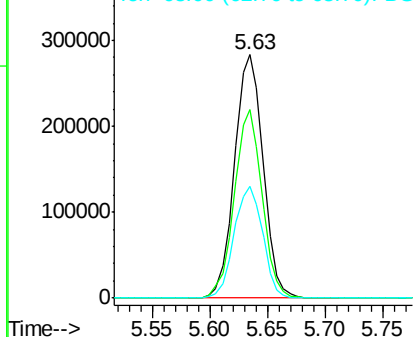
#5

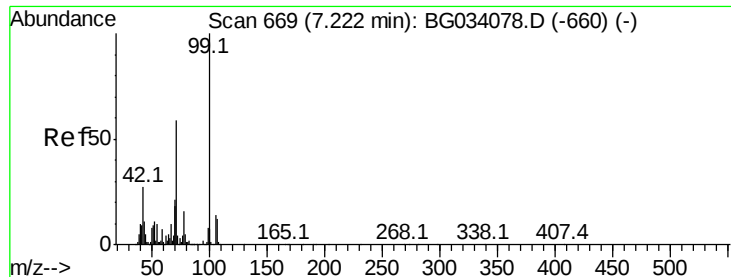
2-Fluorophenol
Concen: 140.676 ng
RT: 5.63 min Scan# 399
Delta R.T. -0.00 min
Lab File: BG034092.D
Acq: 1 May 2018 23:40

Tgt Ion:112 Resp: 484572
Ion Ratio Lower Upper
112 100
64 77.4 56.3 84.5
63 46.1 30.1 45.1#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BGC
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 133.178 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.00 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Instrument :

BNA_G

ClientSampleId :

MDL-SOIL-03-QT2-2018

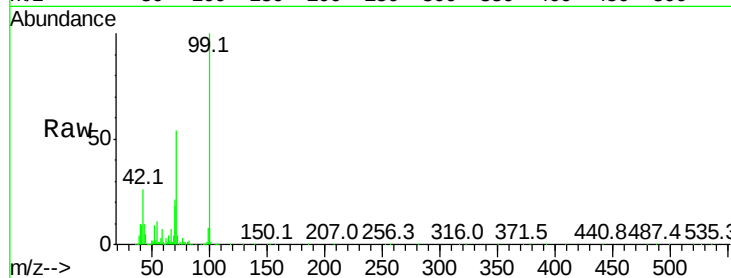
Tot Ion: 99 Resp: 714177

Ion Ratio Lower Upper

99 100

42 25.7 14.1 21.1#

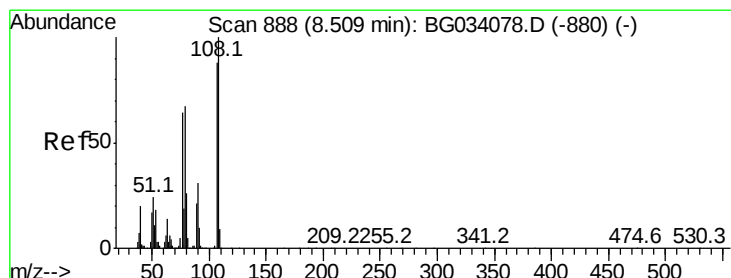
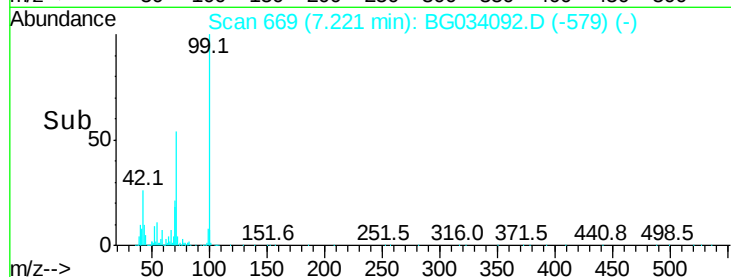
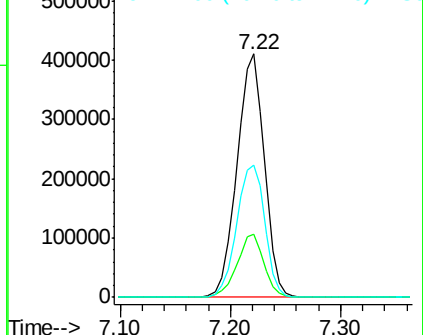
71 54.2 26.1 39.1#



Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC



#17

2-Methylphenol

Concen: 2.052 ng

RT: 8.50 min Scan# 887

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Tgt Ion:107 Resp: 7302

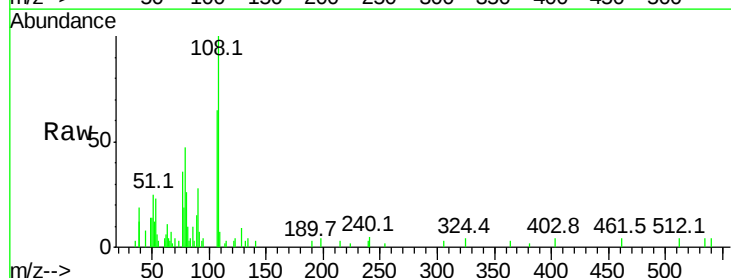
Ion Ratio Lower Upper

107 100

108 153.9 83.9 125.9#

77 55.5 37.2 55.8

79 71.6 36.2 54.2#

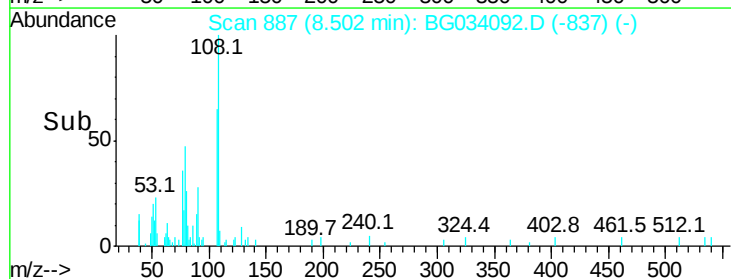
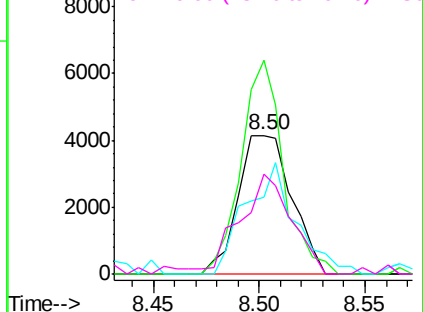


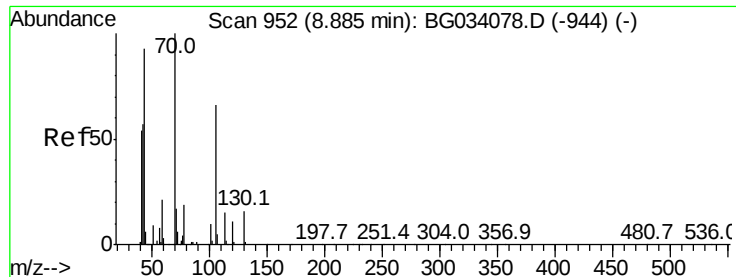
Abundance Ion 107.00 (106.70 to 107.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC

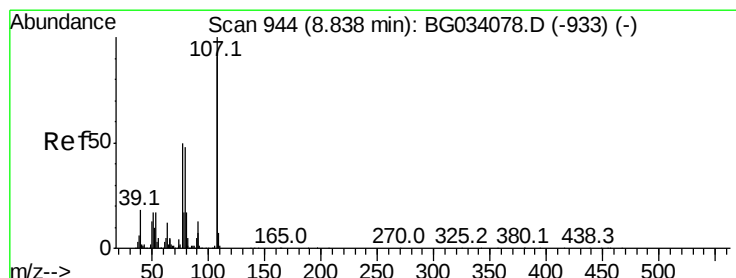
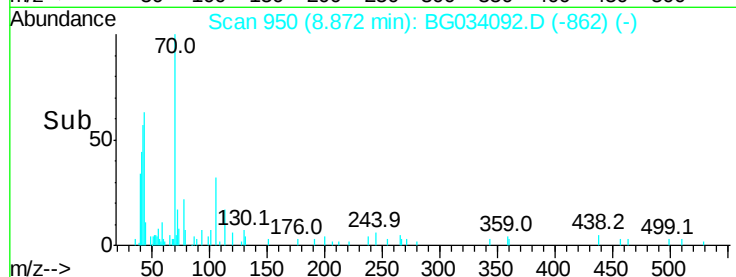
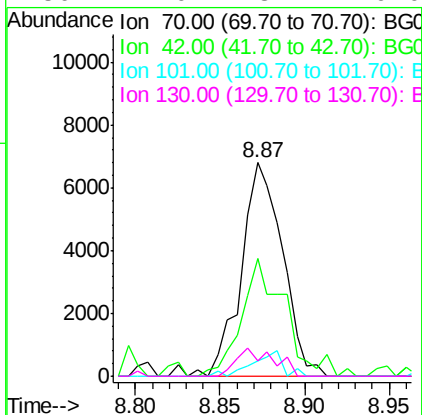
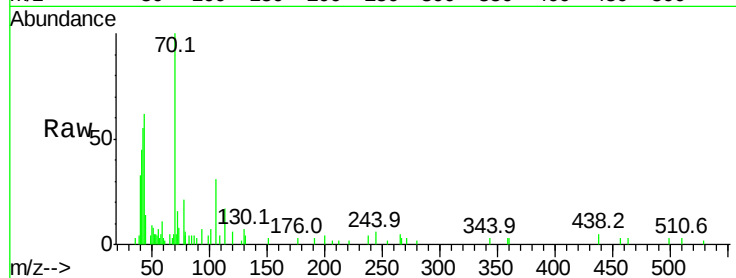




#19
n-Nitroso-di-n-propylamine
Concen: 2.408 ng
RT: 8.87 min Scan# 950
Delta R.T. -0.01 min
Lab File: BG034092.D
Acq: 1 May 2018 23:40

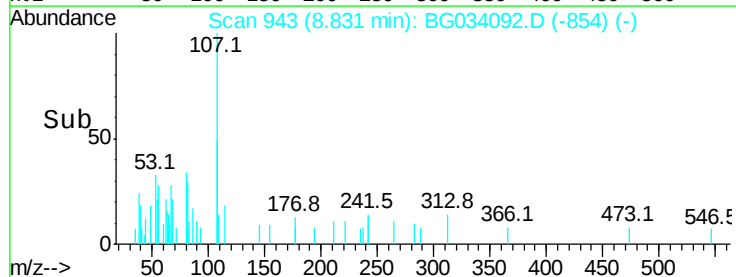
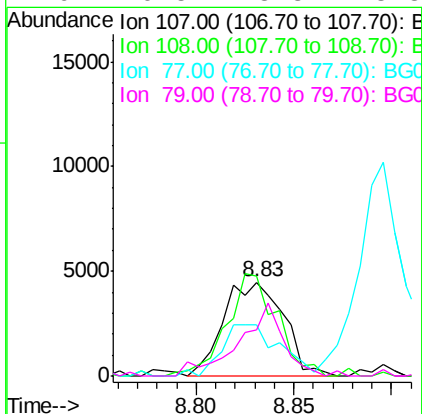
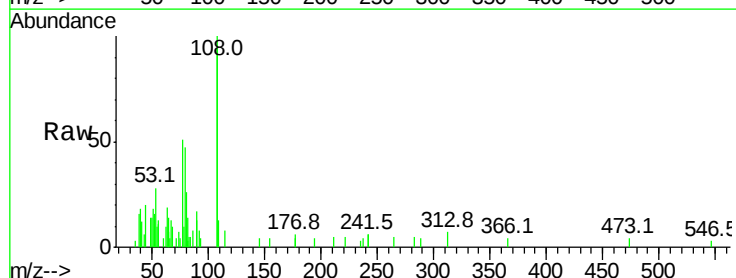
Instrument :
BNA_G
ClientSampleId :
MDL-SOIL-03-QT2-2018

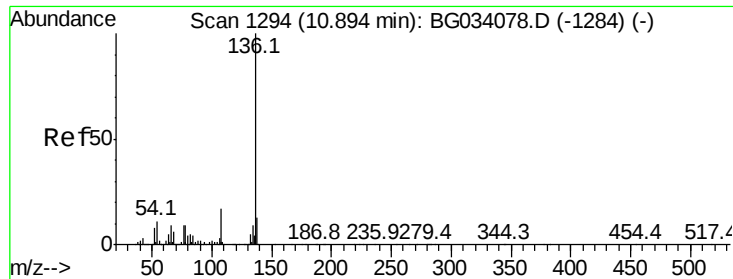
Tot Ion:	70	Resp:	11596
Ion	Ratio	Lower	Upper
70	100		
42	55.4	49.1	73.7
101	7.0	8.5	12.7#
130	7.0	13.4	20.0#



#20
3+4-Methylphenols
Concen: 1.815 ng
RT: 8.83 min Scan# 943
Delta R.T. -0.01 min
Lab File: BG034092.D
Acq: 1 May 2018 23:40

Tgt Ion:	107	Resp:	9566
Ion	Ratio	Lower	Upper
107	100		
108	106.1	61.6	101.6#
77	54.6	13.9	53.9#
79	49.5	8.8	48.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.89 min Scan# 1293

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Instrument :

BNA_G

ClientSampleId :

MDL-SOIL-03-QT2-2018

Tot Ion:136 Resp: 236436

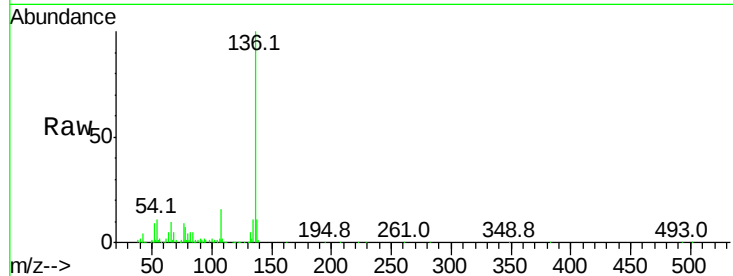
Ion Ratio Lower Upper

136 100

137 10.6 9.2 13.8

54 11.3 10.3 15.5

68 5.0 4.5 6.7

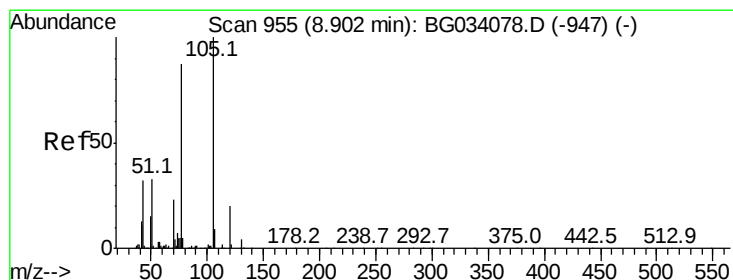
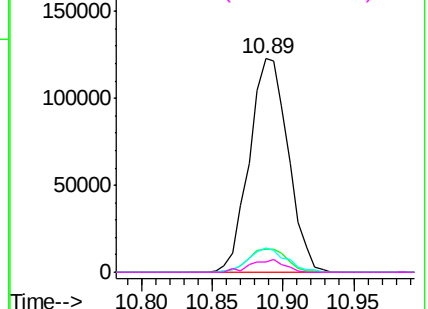
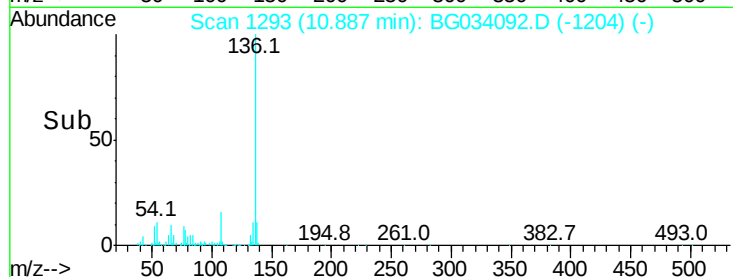


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#22

Acetophenone

Concen: 2.156 ng

RT: 8.90 min Scan# 954

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Tgt Ion:105 Resp: 17367

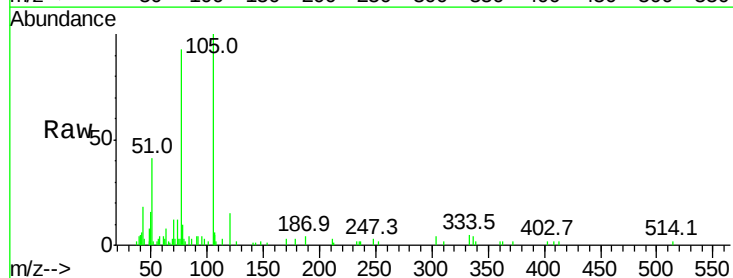
Ion Ratio Lower Upper

105 100

71 2.9 3.0 4.4#

51 40.9 26.1 39.1#

120 15.1 17.4 26.2#

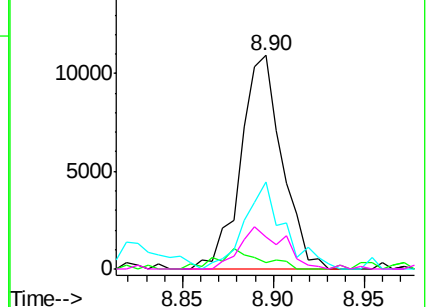
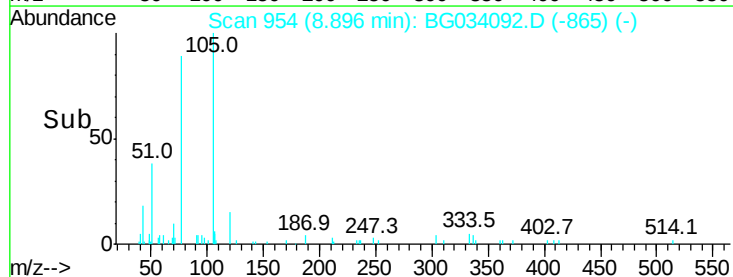


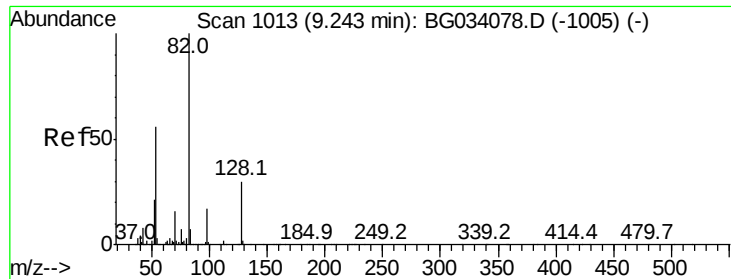
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

Ion 120.00 (119.70 to 120.70): E

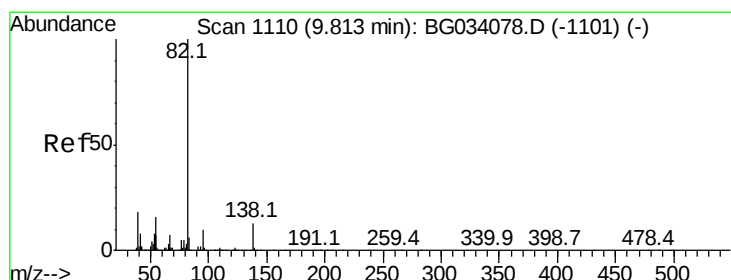
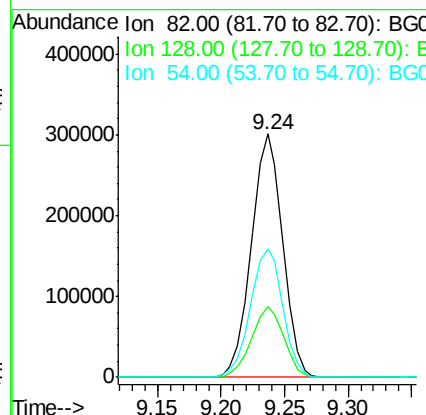
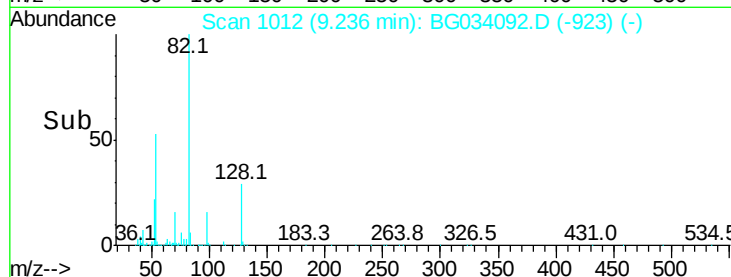
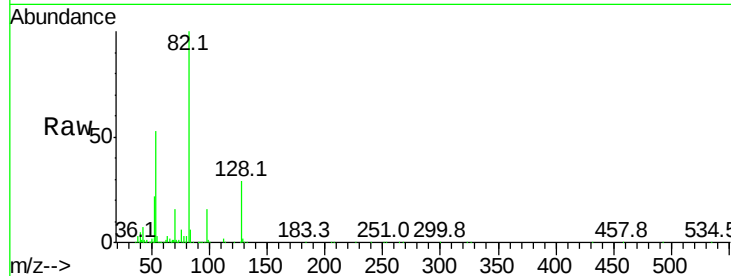




#23
Nitrobenzene-d5
Concen: 84.183 ng
RT: 9.24 min Scan# 1012
Delta R.T. -0.01 min
Lab File: BG034092.D
Acq: 1 May 2018 23:40

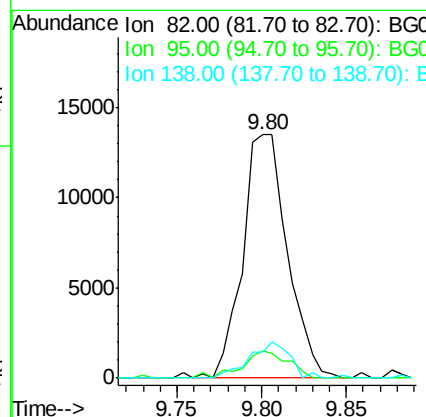
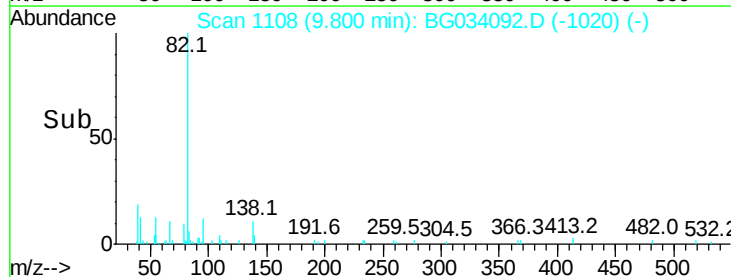
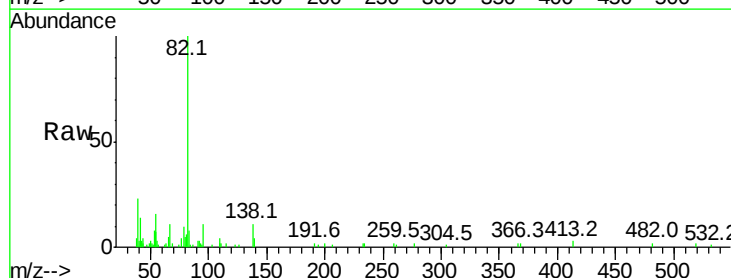
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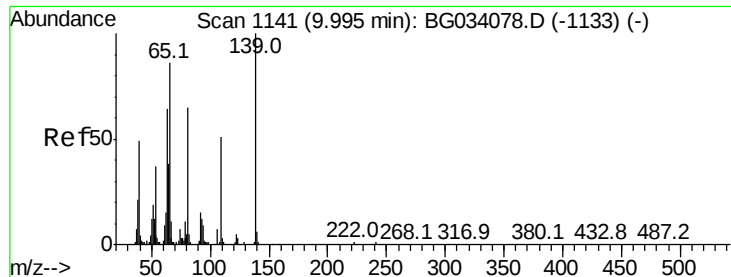
Tot Ion: 82 Resp: 518761
Ion Ratio Lower Upper
82 100
128 29.1 29.7 44.5#
54 52.7 43.1 64.7



#25
Isophorone
Concen: 1.978 ng
RT: 9.80 min Scan# 1108
Delta R.T. -0.01 min
Lab File: BG034092.D
Acq: 1 May 2018 23:40

Tgt Ion: 82 Resp: 24867
Ion Ratio Lower Upper
82 100
95 11.2 6.2 9.2#
138 10.6 12.1 18.1#





#26

2-Nitrophenol

Concen: 1.987 ng

RT: 9.99 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Instrument :

BNA_G

ClientSampleId :

MDL-SOIL-03-QT2-2018

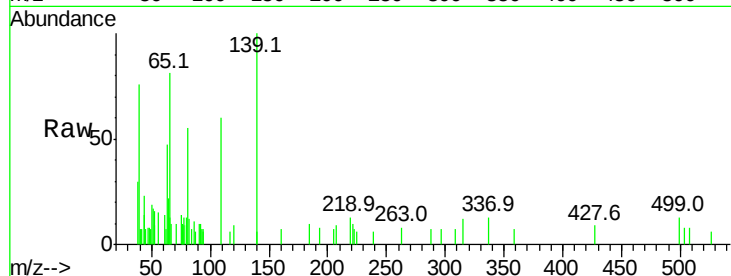
Tot Ion:139 Resp: 3710

Ion Ratio Lower Upper

139 100

109 59.8 24.2 36.2#

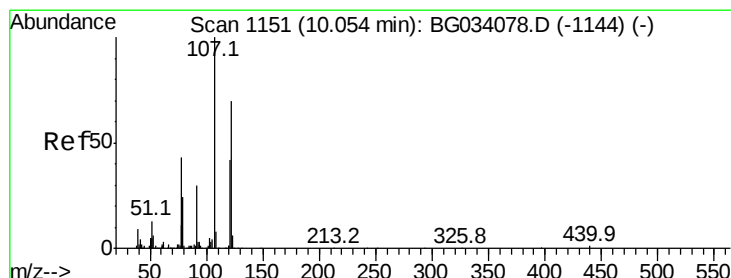
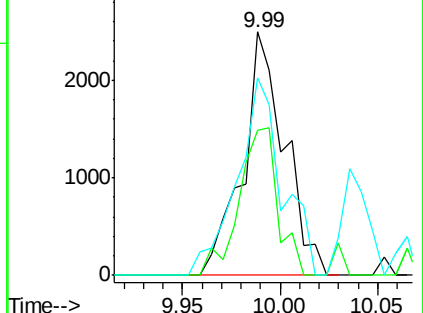
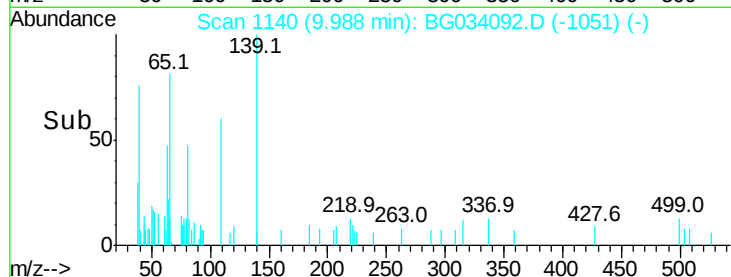
65 81.0 47.4 71.0#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): B



#27

2,4-Dimethylphenol

Concen: 1.679 ng

RT: 10.05 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

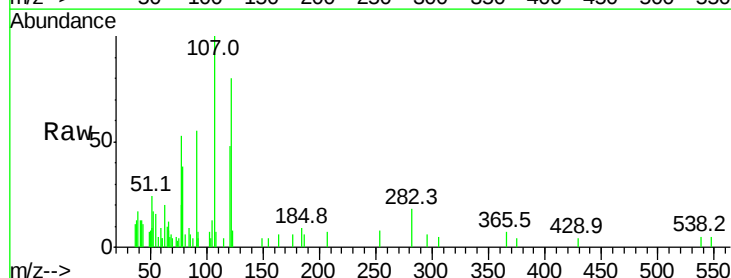
Tgt Ion:122 Resp: 6079

Ion Ratio Lower Upper

122 100

107 125.7 100.2 150.2

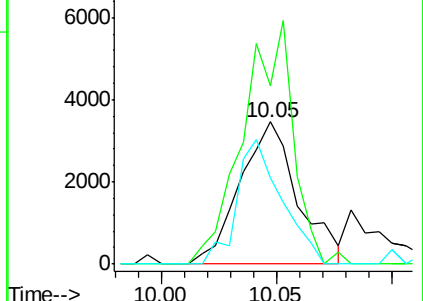
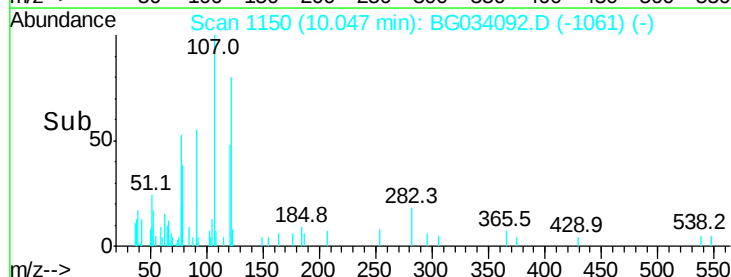
121 60.3 44.4 66.6

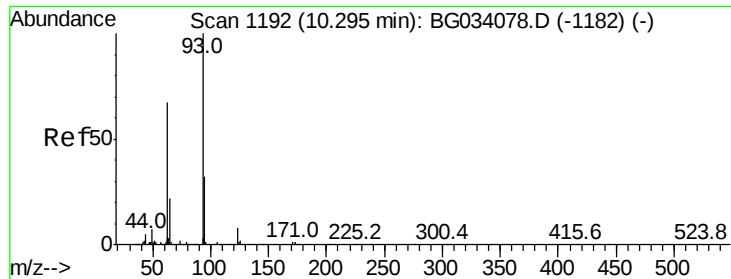


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

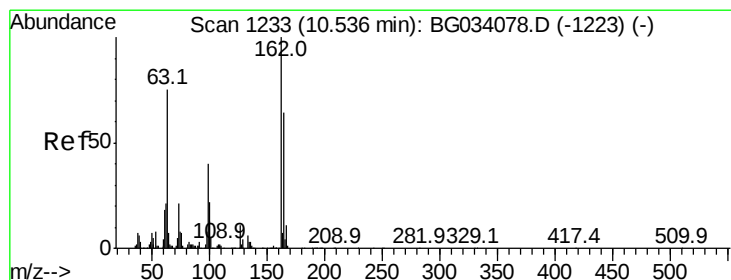
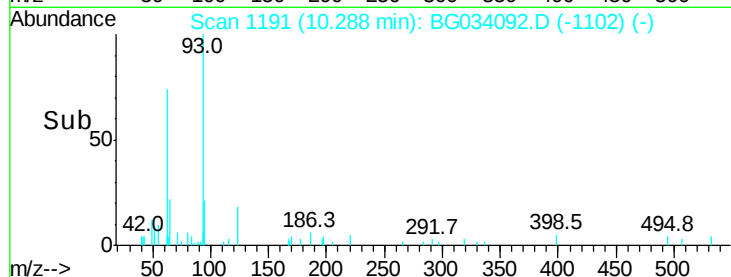
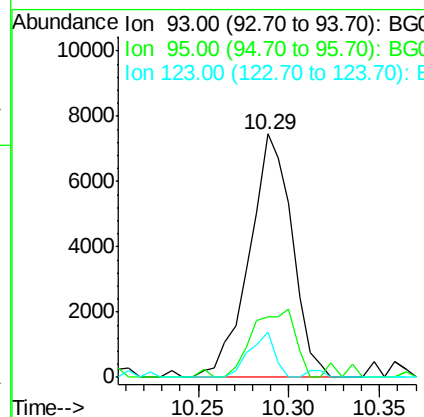
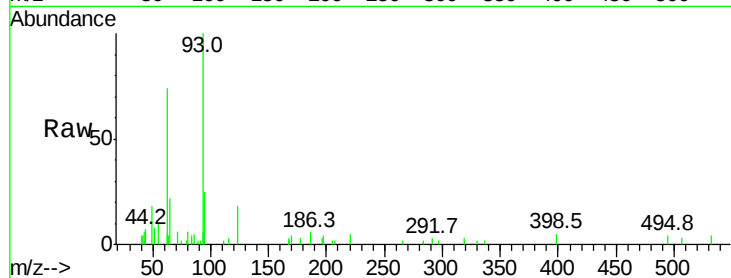




#28
bis(2-Chloroethoxy)methane
Concen: 1.977 ng
RT: 10.29 min Scan# 1191
Delta R.T. -0.01 min
Lab File: BG034092.D
Acq: 1 May 2018 23:40

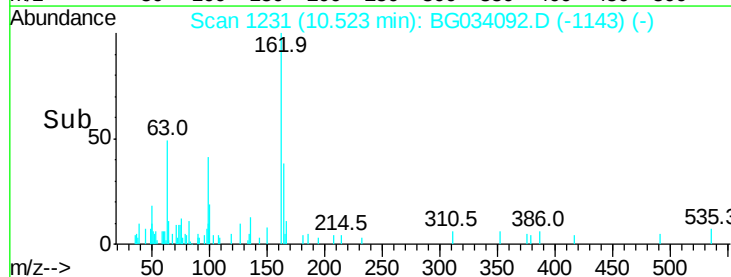
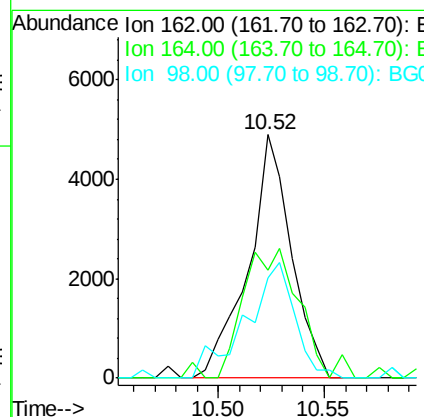
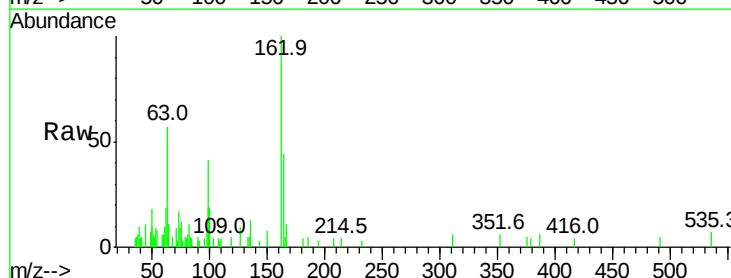
Instrument :
BNA_G
ClientSampleId :
MDL-SOIL-03-QT2-2018

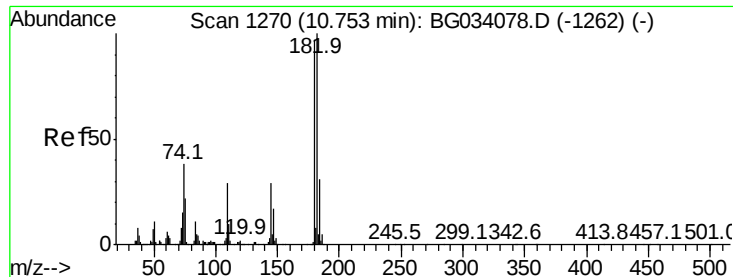
Tot Ion: 93 Resp: 12206
Ion Ratio Lower Upper
93 100
95 24.9 24.3 36.5
123 18.4 8.4 12.6#



#29
2,4-Dichlorophenol
Concen: 1.612 ng
RT: 10.52 min Scan# 1231
Delta R.T. -0.01 min
Lab File: BG034092.D
Acq: 1 May 2018 23:40

Tgt Ion:162 Resp: 6975
Ion Ratio Lower Upper
162 100
164 44.4 48.0 88.0#
98 40.9 21.1 61.1

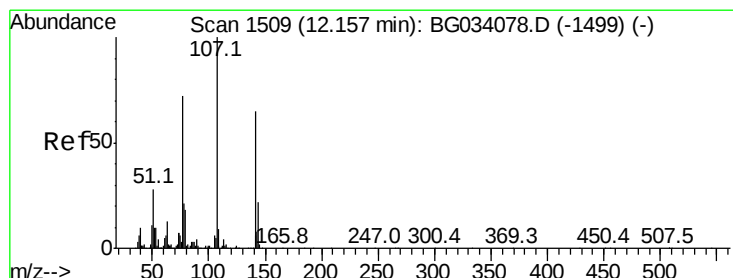
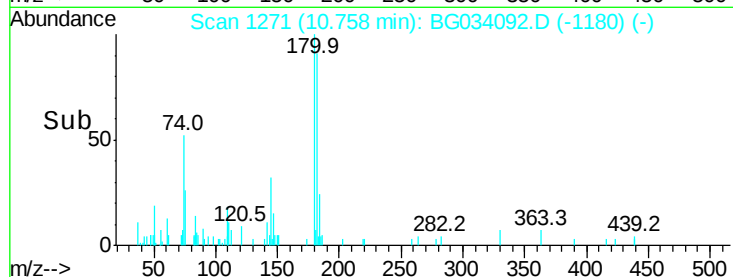
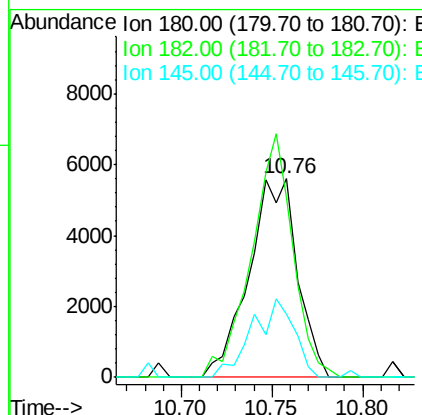
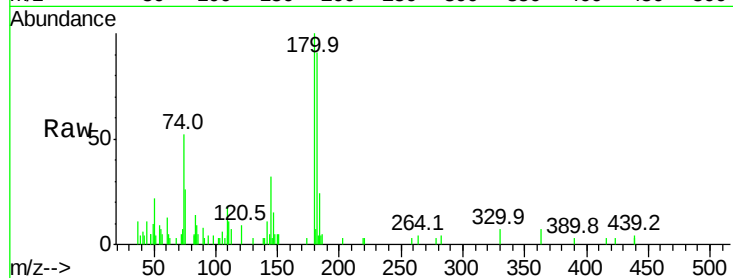




#30
 1,2,4-Trichlorobenzene
 Concen: 2.000 ng
 RT: 10.76 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: BG034092.D
 Acq: 1 May 2018 23:40

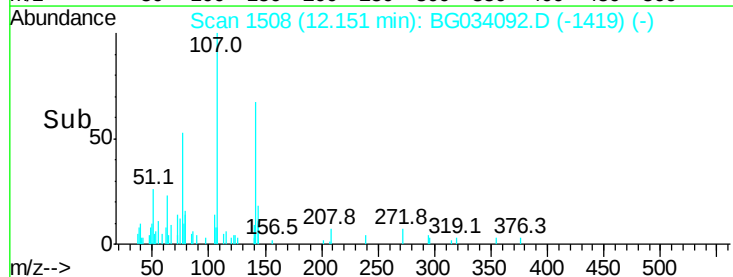
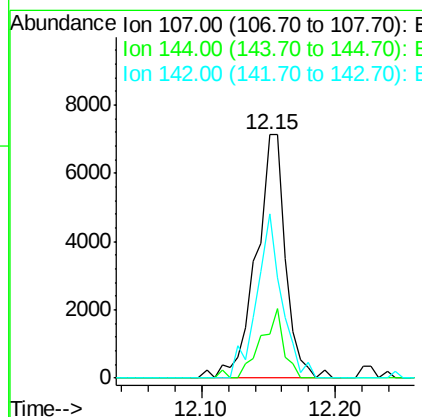
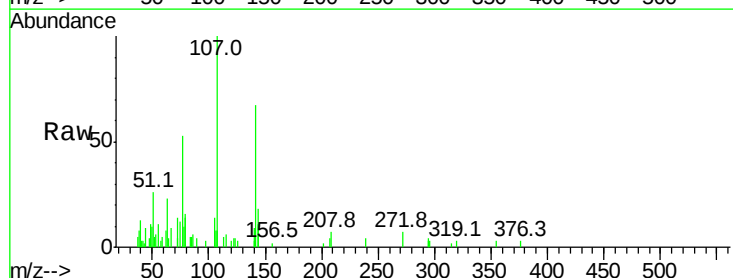
Instrument :
 BNA_G
 ClientSampleId :
 MDL-SOIL-03-QT2-2018

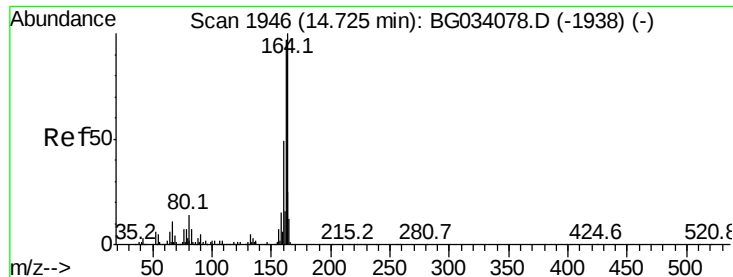
Tot Ion:180 Resp: 10422
 Ion Ratio Lower Upper
 180 100
 182 90.5 77.5 116.3
 145 32.0 23.4 35.2



#36
 4-Chloro-3-methylphenol
 Concen: 1.921 ng
 RT: 12.15 min Scan# 1508
 Delta R.T. -0.01 min
 Lab File: BG034092.D
 Acq: 1 May 2018 23:40

Tgt Ion:107 Resp: 10778
 Ion Ratio Lower Upper
 107 100
 144 18.2 18.2 27.4#
 142 67.5 59.0 88.4





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.72 min Scan# 1945

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Instrument :

BNA_G

ClientSampleId :

MDL-SOIL-03-QT2-2018

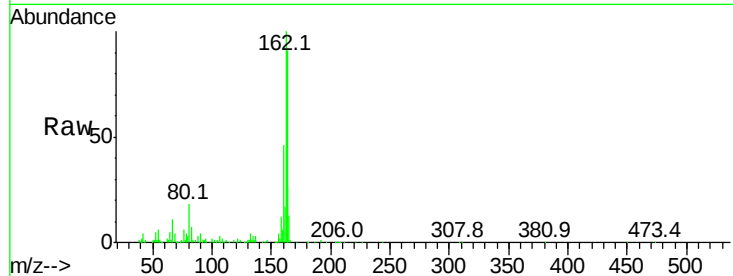
Tot Ion:164 Resp: 191273

Ion Ratio Lower Upper

164 100

162 109.6 78.8 118.2

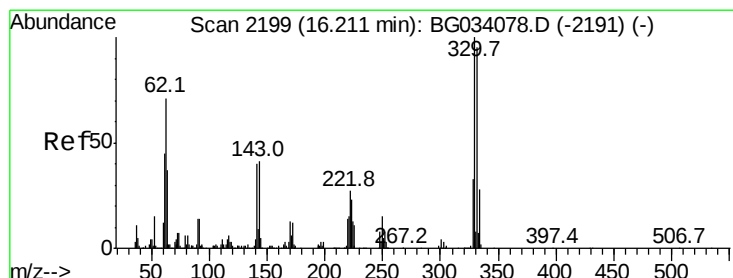
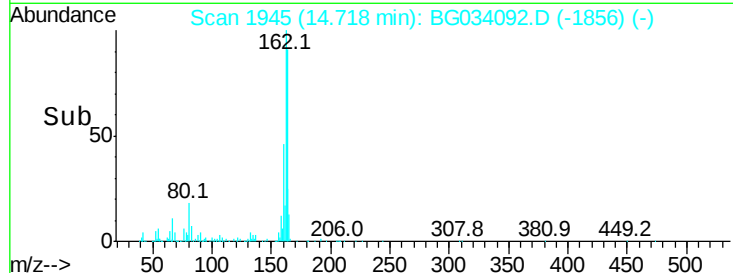
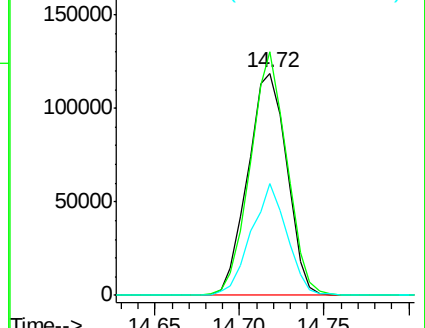
160 50.2 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 138.431 ng

RT: 16.20 min Scan# 2198

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

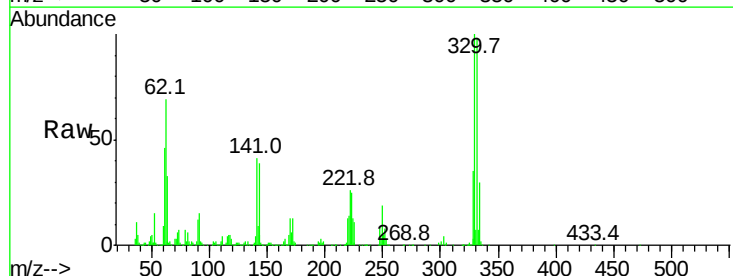
Tgt Ion:330 Resp: 366646

Ion Ratio Lower Upper

330 100

332 96.1 77.0 115.6

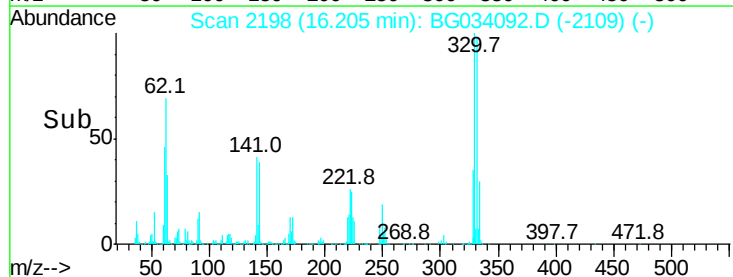
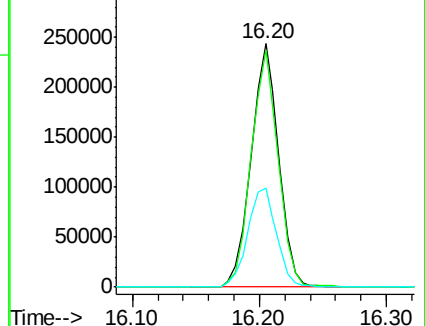
141 42.8 25.2 37.8#

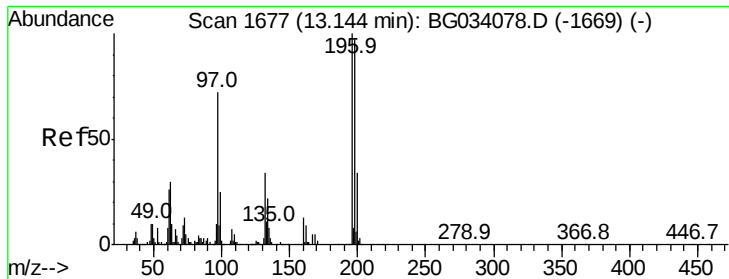


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

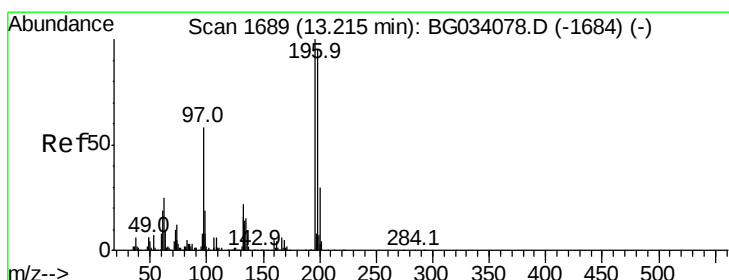
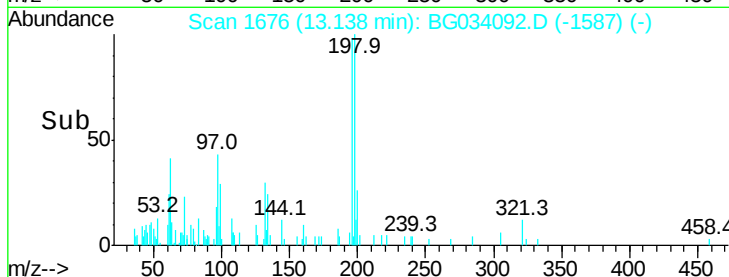
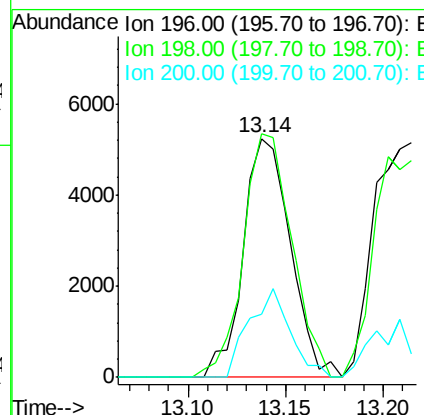
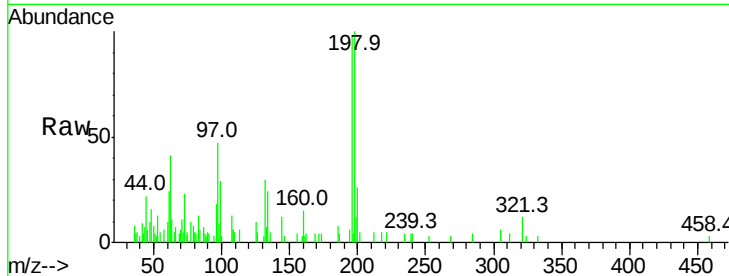




#42
 2,4,6-Trichlorophenol
 Concen: 2.041 ng
 RT: 13.14 min Scan# 1676
 Delta R.T. -0.01 min
 Lab File: BG034092.D
 Acq: 1 May 2018 23:40

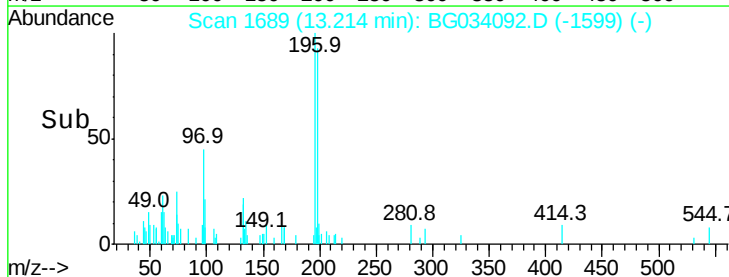
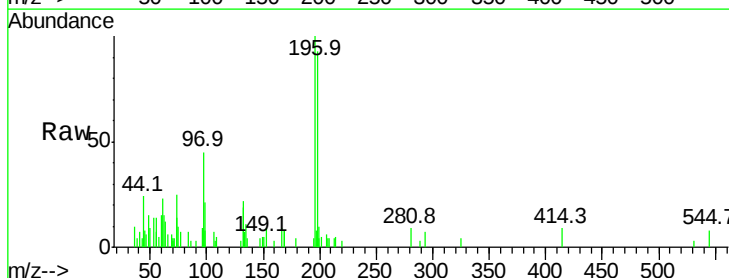
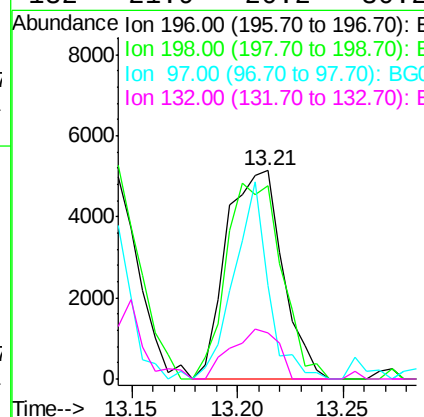
Instrument :
 BNA_G
 ClientSampleId :
 MDL-SOIL-03-QT2-2018

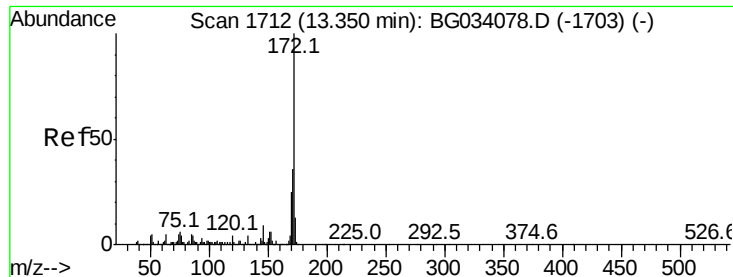
Tot Ion:196 Resp: 8775
 Ion Ratio Lower Upper
 196 100
 198 102.0 78.2 117.2
 200 26.6 24.6 36.8



#43
 2,4,5-Trichlorophenol
 Concen: 1.993 ng
 RT: 13.21 min Scan# 1689
 Delta R.T. -0.00 min
 Lab File: BG034092.D
 Acq: 1 May 2018 23:40

Tgt Ion:196 Resp: 9475
 Ion Ratio Lower Upper
 196 100
 198 92.7 76.2 114.4
 97 45.1 38.7 58.1
 132 21.9 20.2 30.2





#44

2-Fluorobiphenyl

Concen: 85.515 ng

RT: 13.34 min Scan# 1711

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Instrument :

BNA_G

ClientSampleId :

MDL-SOIL-03-QT2-2018

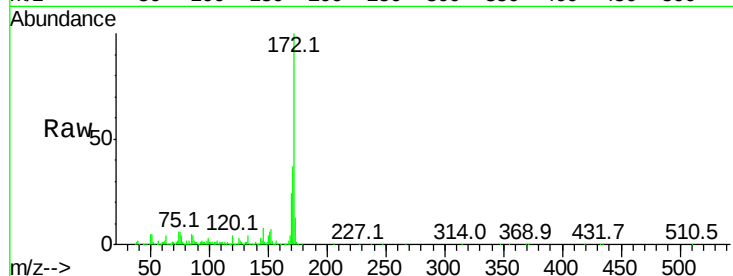
Tot Ion:172 Resp: 1122516

Ion Ratio Lower Upper

172 100

171 37.3 30.0 45.0

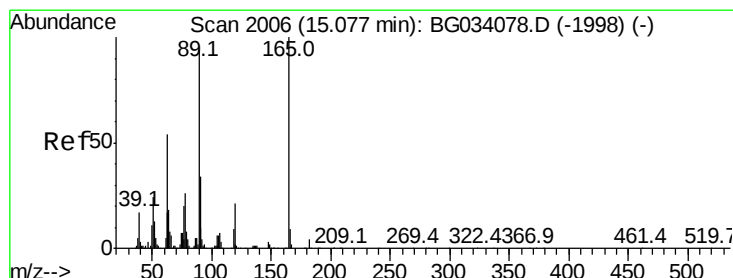
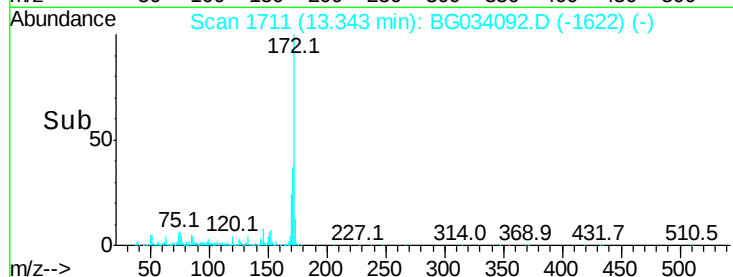
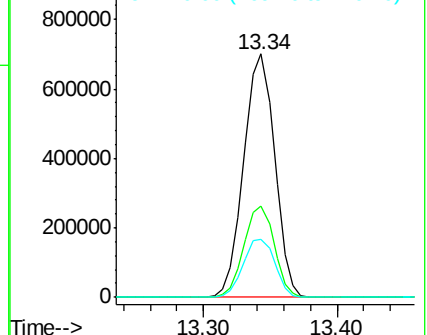
170 23.8 19.5 29.3



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#56

2,4-Dinitrotoluene

Concen: 1.580 ng

RT: 15.06 min Scan# 2003

Delta R.T. -0.02 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Tgt Ion:165 Resp: 6833

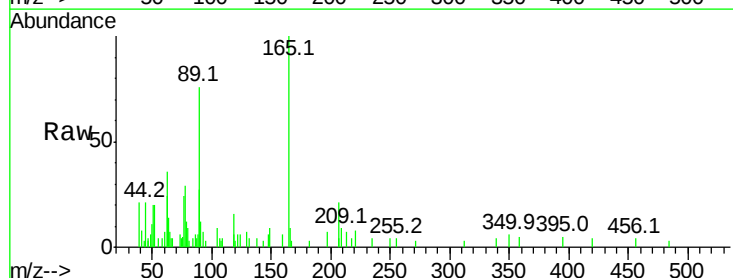
Ion Ratio Lower Upper

165 100

63 35.8 42.0 63.0#

89 76.4 66.9 100.3

182 3.0 2.6 3.8

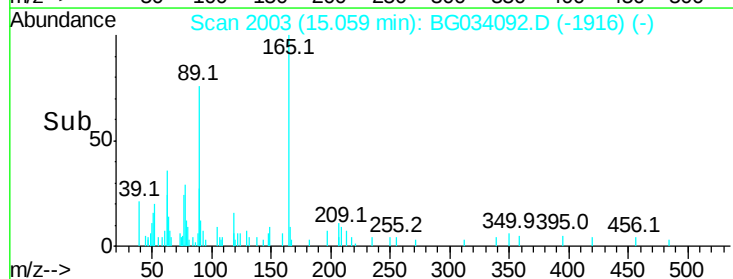
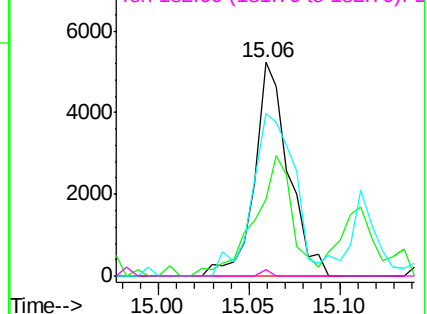


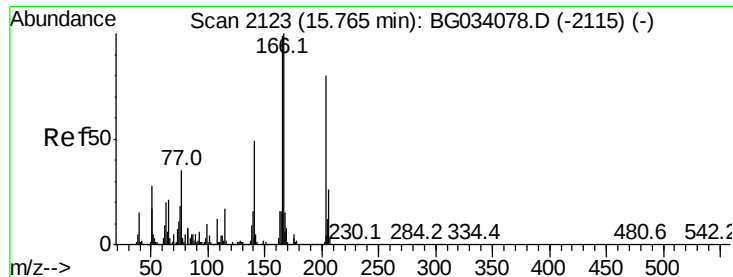
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E





#60

4-Chlorophenyl-phenylether

Concen: 2.048 ng

RT: 15.76 min Scan# 2122

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Instrument :

BNA_G

ClientSampleId :

MDL-SOIL-03-QT2-2018

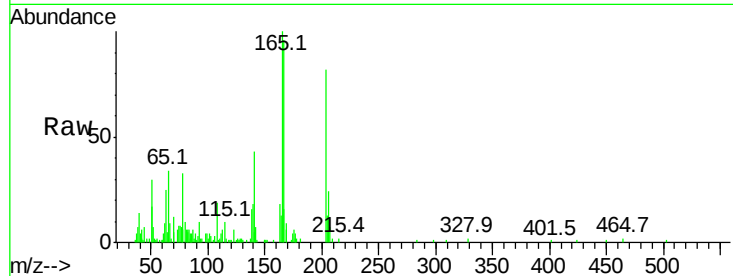
Tot Ion:204 Resp: 18900

Ion Ratio Lower Upper

204 100

206 29.7 26.2 39.2

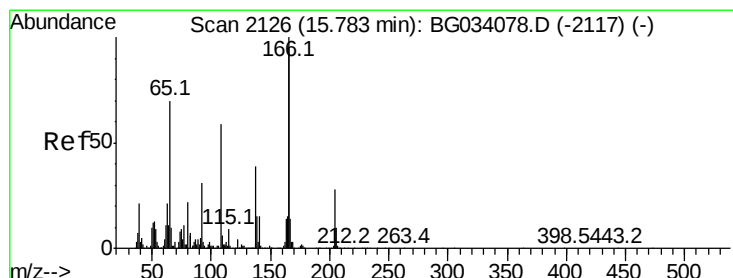
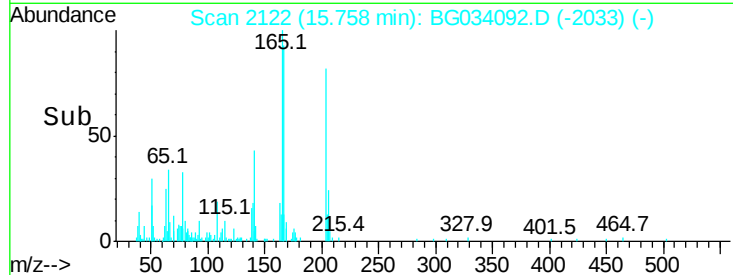
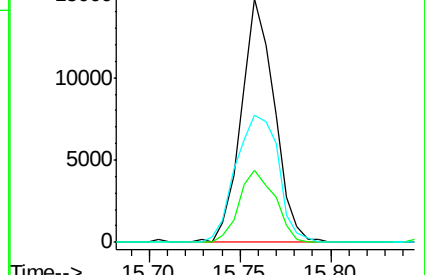
141 52.2 45.8 68.6



Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#61

4-Nitroaniline

Concen: 1.745 ng

RT: 15.76 min Scan# 2123

Delta R.T. -0.02 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

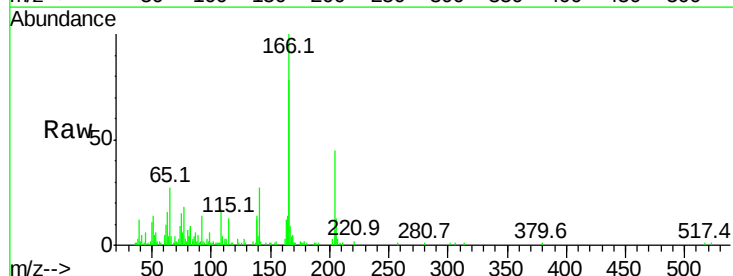
Tgt Ion:138 Resp: 5942

Ion Ratio Lower Upper

138 100

92 103.3 40.1 80.1#

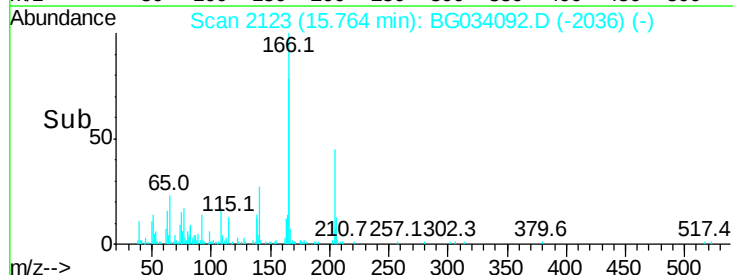
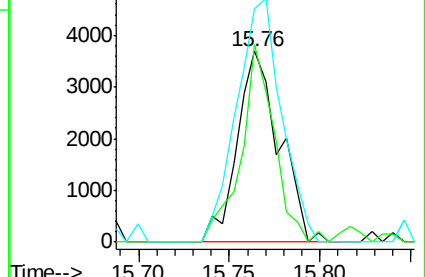
108 122.5 65.4 105.4#

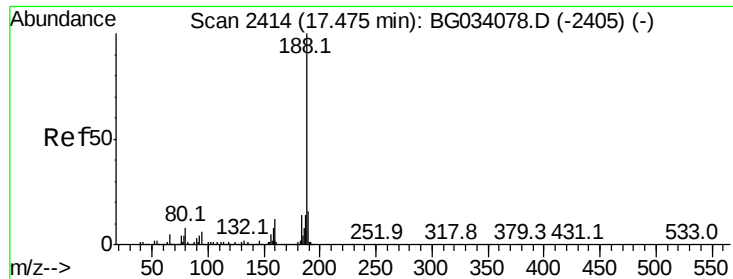


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.47 min Scan# 2413

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Instrument :

BNA_G

ClientSampleId :

MDL-SOIL-03-QT2-2018

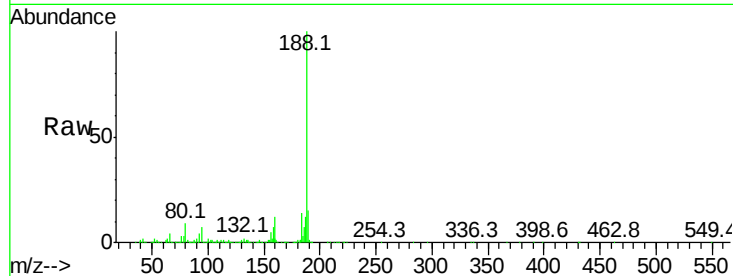
Tot Ion:188 Resp: 520268

Ion Ratio Lower Upper

188 100

94 6.5 6.9 10.3#

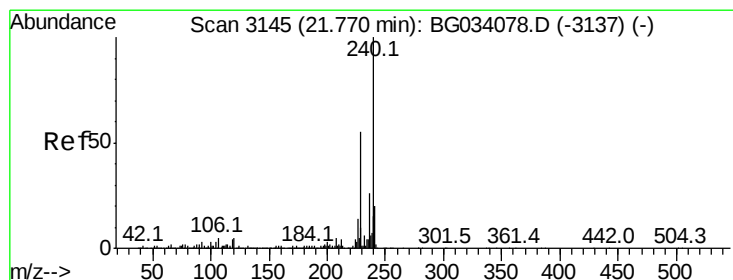
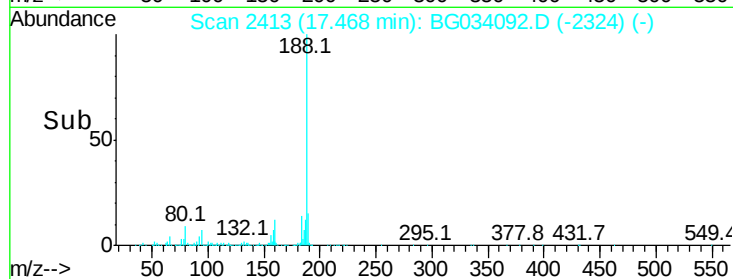
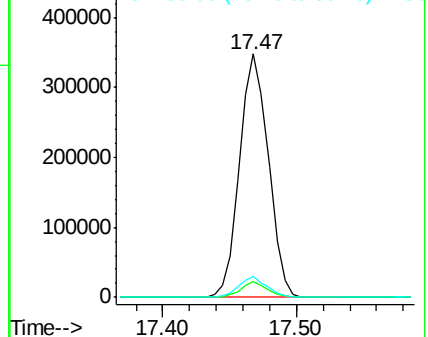
80 8.6 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.76 min Scan# 3144

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

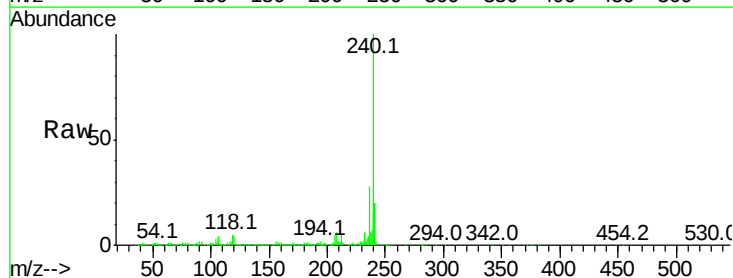
Tgt Ion:240 Resp: 574270

Ion Ratio Lower Upper

240 100

120 3.7 6.8 10.2#

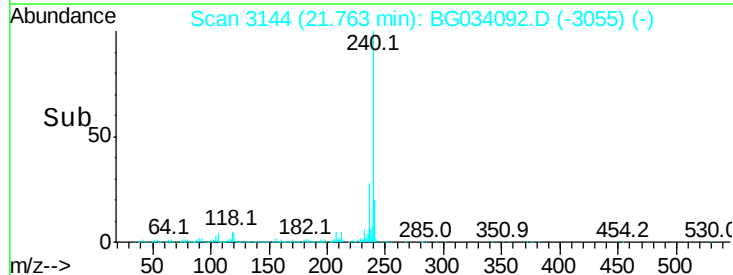
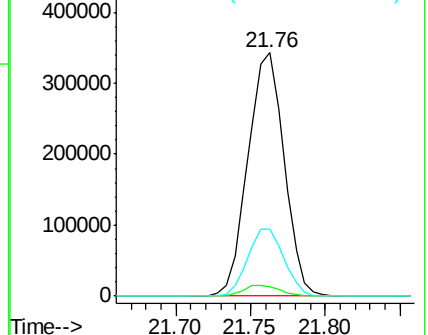
236 27.5 20.9 31.3

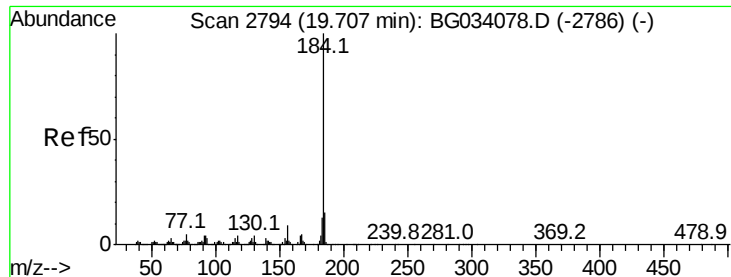


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 1.102 ng

RT: 19.70 min Scan# 2793

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

Instrument :

BNA_G

ClientSampleId :

MDL-SOIL-03-QT2-2018

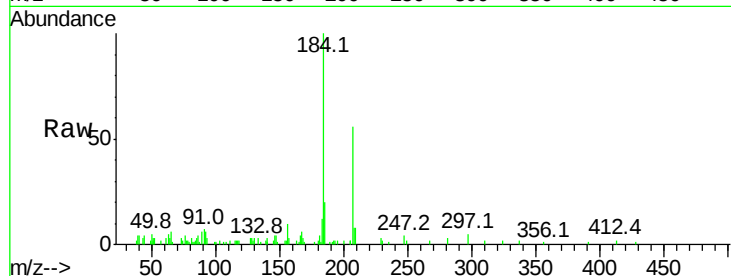
Tot Ion:184 Resp: 16304

Ion Ratio Lower Upper

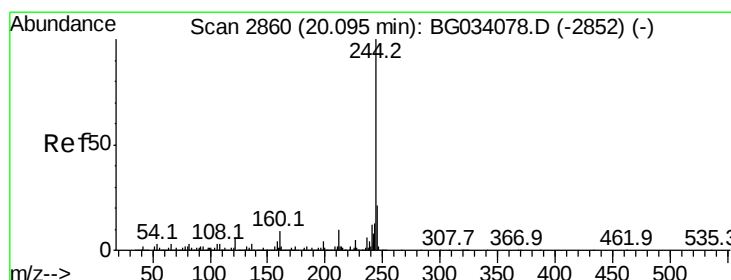
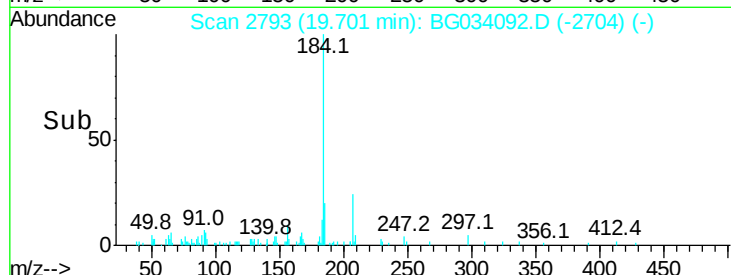
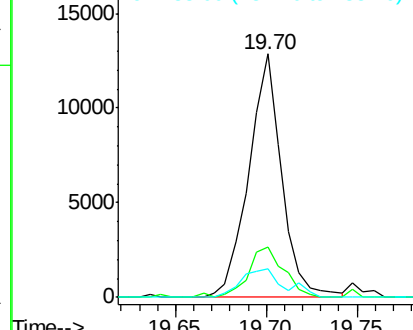
184 100

185 20.4 11.1 16.7#

183 11.6 10.6 16.0



Abundance Ion 184.00 (183.70 to 184.70): E
Ion 185.00 (184.70 to 185.70): E
Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 83.905 ng

RT: 20.09 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BG034092.D

Acq: 1 May 2018 23:40

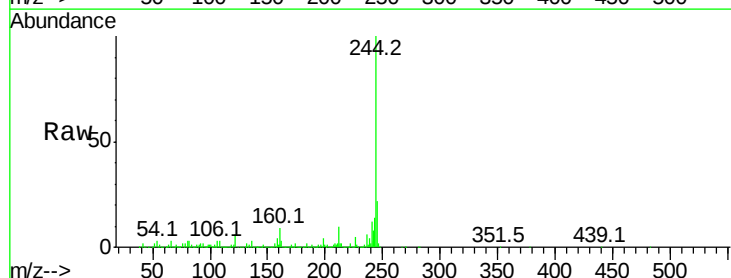
Tgt Ion:244 Resp: 2199526

Ion Ratio Lower Upper

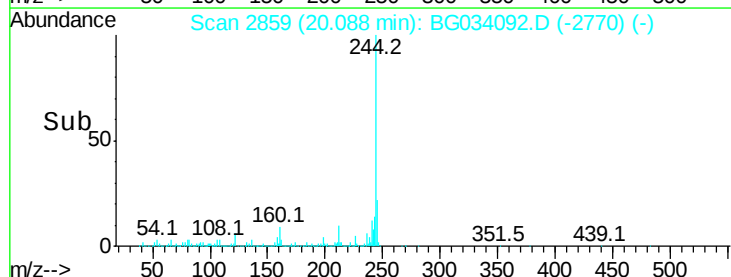
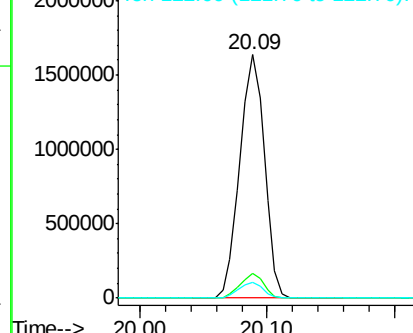
244 100

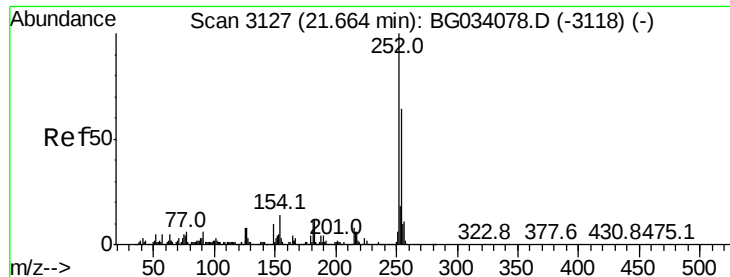
212 9.9 5.8 8.8#

122 6.3 7.0 10.4#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E

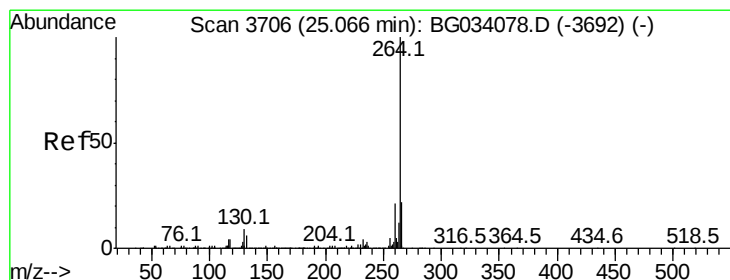
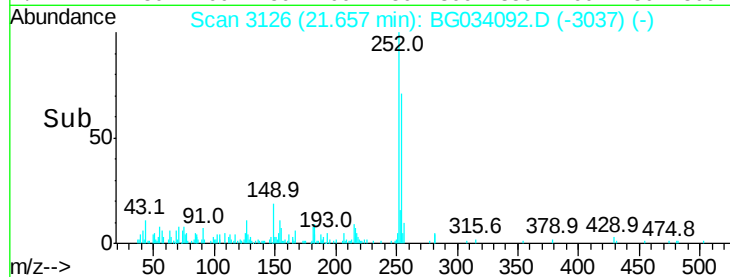
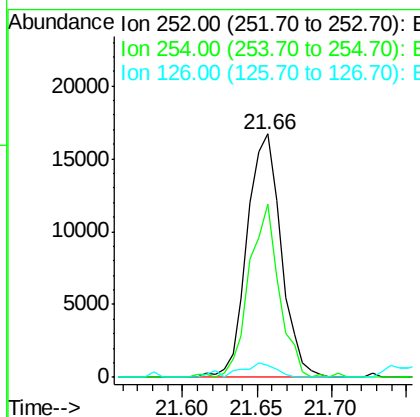
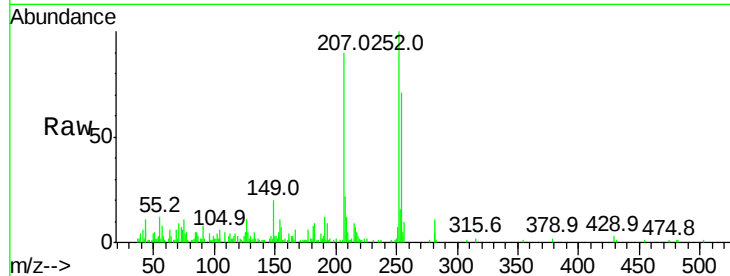




#81
 3,3'-Dichlorobenzidine
 Concen: 1.884 ng
 RT: 21.66 min Scan# 3126
 Delta R.T. -0.01 min
 Lab File: BG034092.D
 Acq: 1 May 2018 23:40

Instrument :
 BNA_G
 ClientSampleId :
 MDL-SOIL-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
252	100		
254	71.3	50.8	76.2
126	4.9	7.4	11.2#



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.05 min Scan# 3703
 Delta R.T. -0.02 min
 Lab File: BG034092.D
 Acq: 1 May 2018 23:40

Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.9	17.4	26.0#
265	21.4	17.7	26.5

