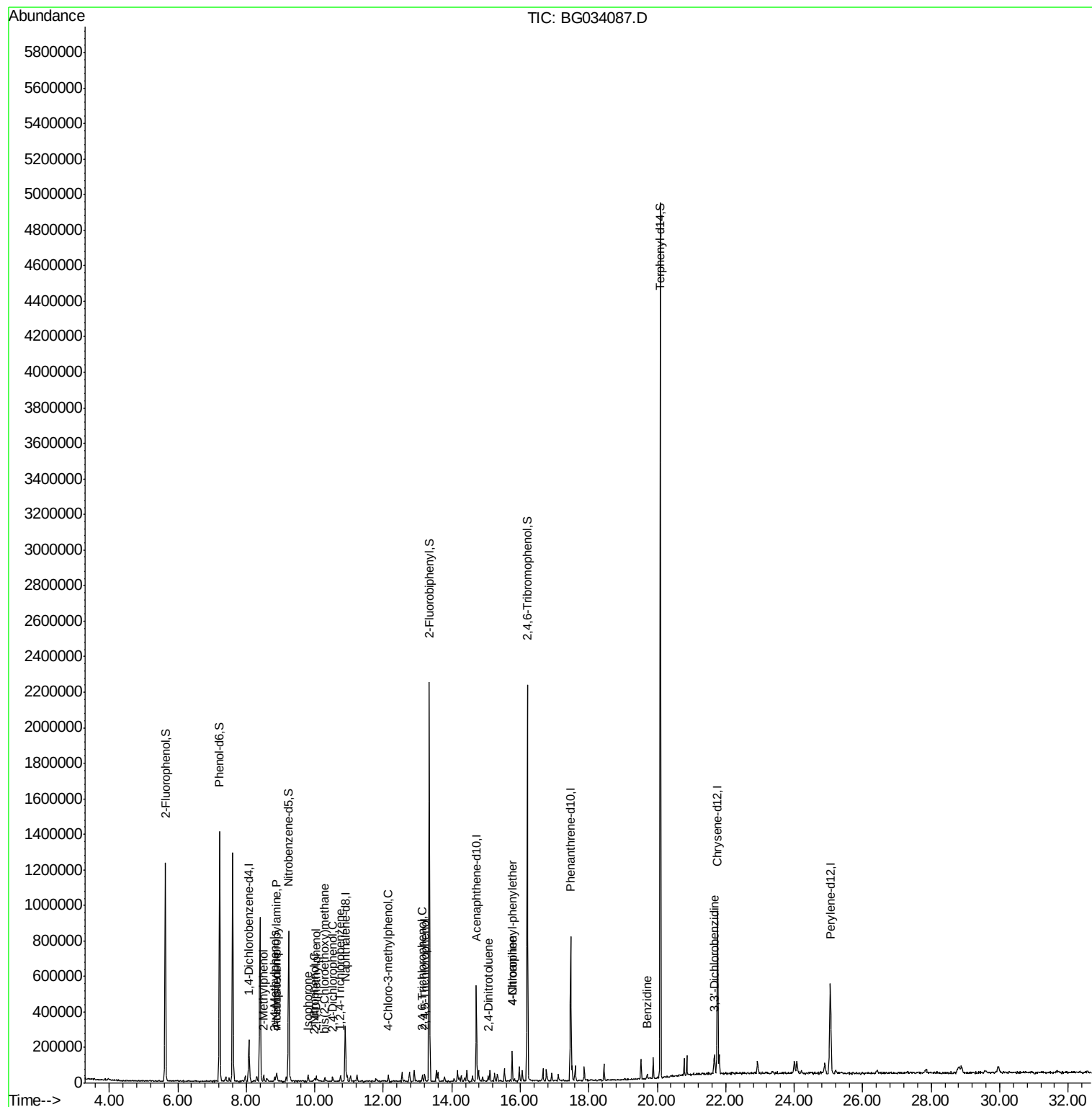
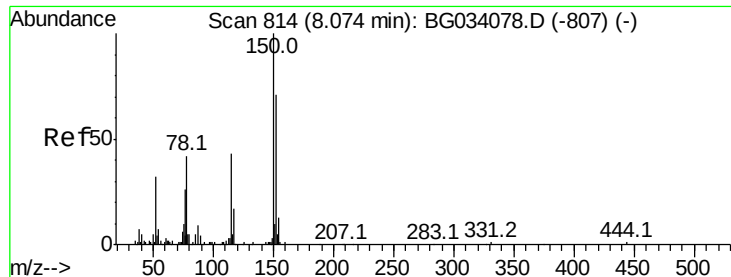


Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG050118\
Data File : BG034087.D
Acq On : 1 May 2018 20:29
Operator : SJ/JU
Sample : J2133-01
Misc : 2PPM LOD
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

Quant Time: May 02 05:43:12 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



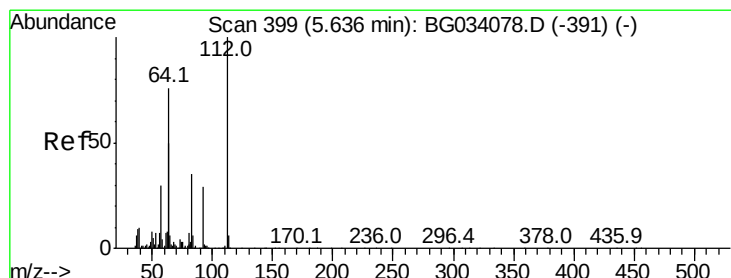
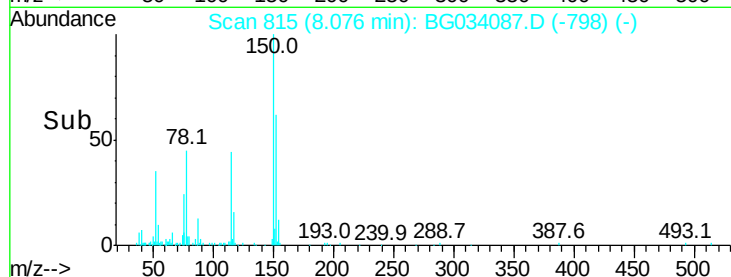
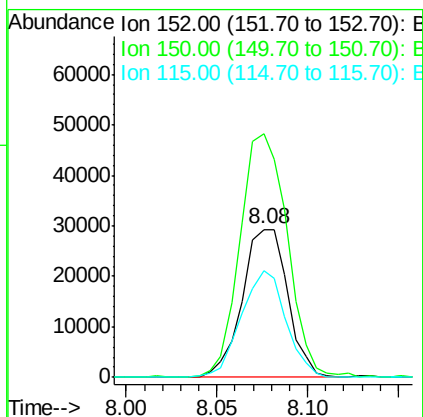
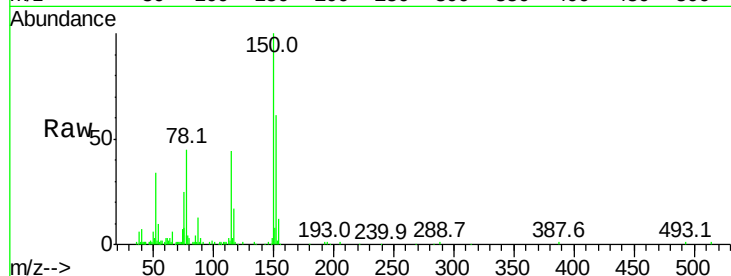


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.08 min Scan# 815
Delta R.T. 0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

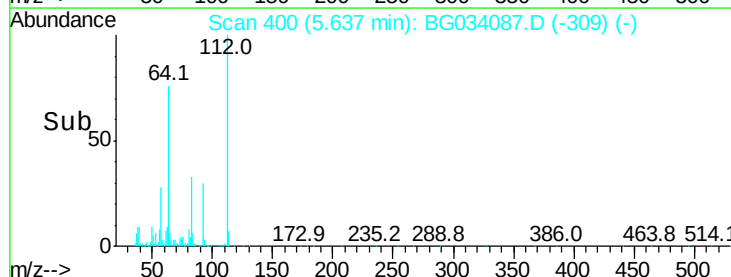
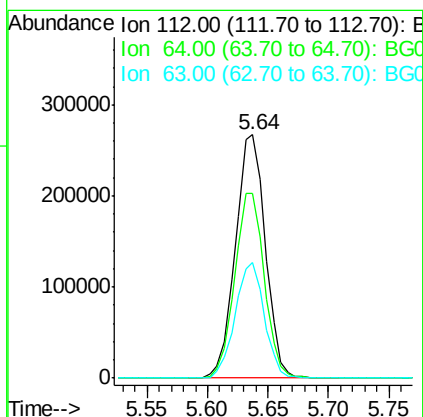
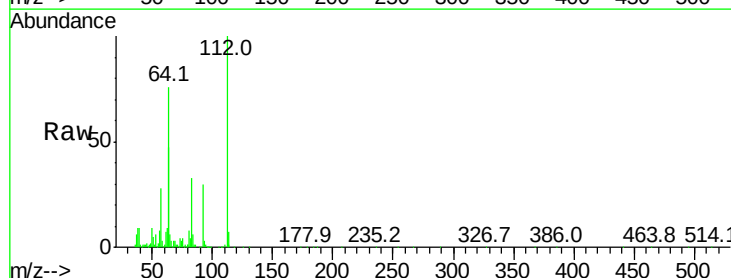
Tot Ion:152 Resp: 51357
Ion Ratio Lower Upper
152 100
150 164.4 126.6 189.8
115 71.9 53.0 79.4

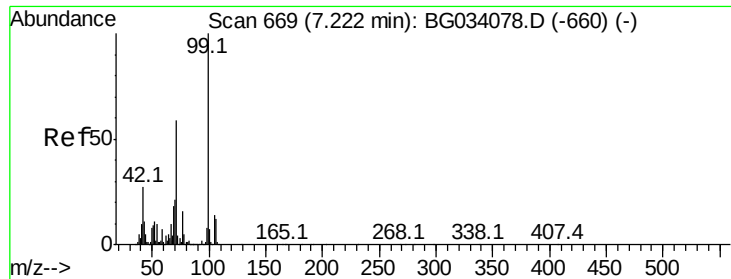


#5

2-Fluorophenol
Concen: 145.505 ng
RT: 5.64 min Scan# 400
Delta R.T. 0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Tgt Ion:112 Resp: 462527
Ion Ratio Lower Upper
112 100
64 75.7 56.3 84.5
63 47.5 30.1 45.1#





#7

Phenol-d6

Concen: 139.517 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.00 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

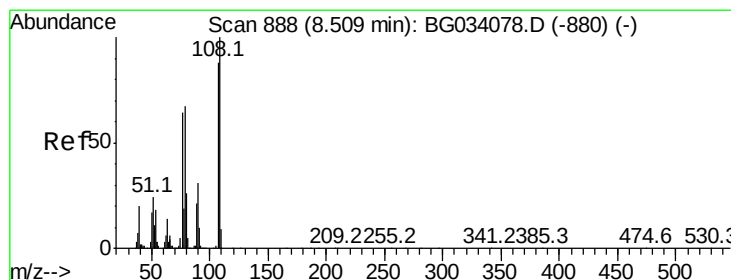
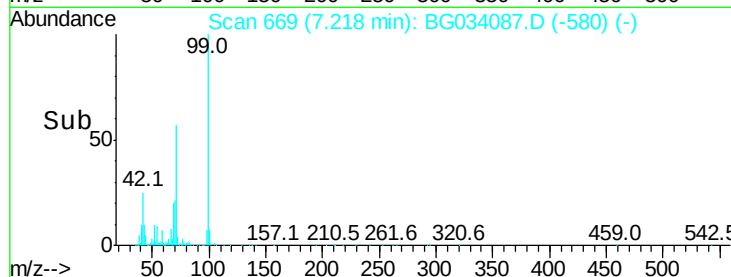
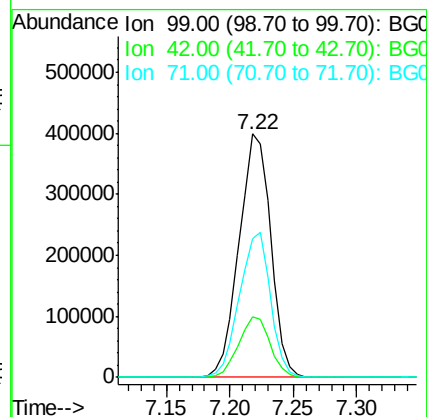
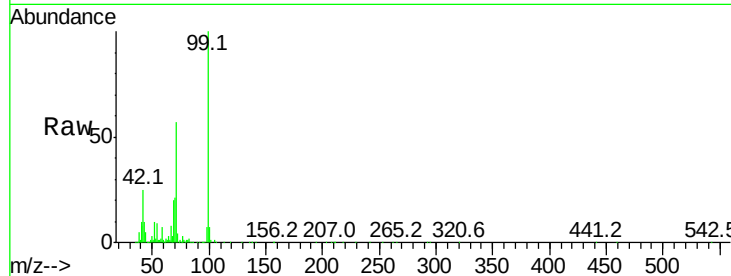
Tot Ion: 99 Resp: 690434

Ion Ratio Lower Upper

99 100

42 24.8 14.1 21.1#

71 57.1 26.1 39.1#



#17

2-Methylphenol

Concen: 2.220 ng

RT: 8.50 min Scan# 887

Delta R.T. -0.01 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

Tgt Ion: 107 Resp: 7292

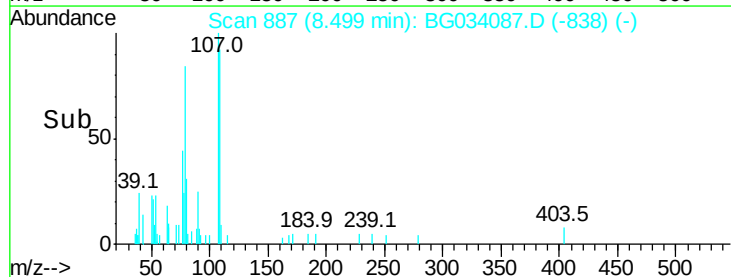
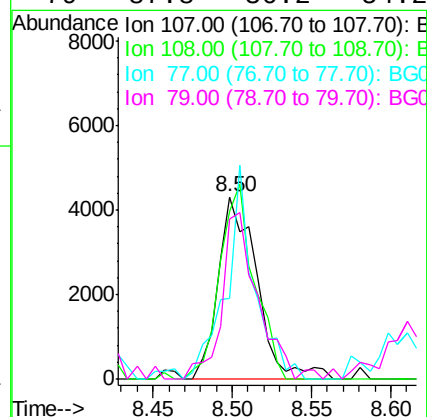
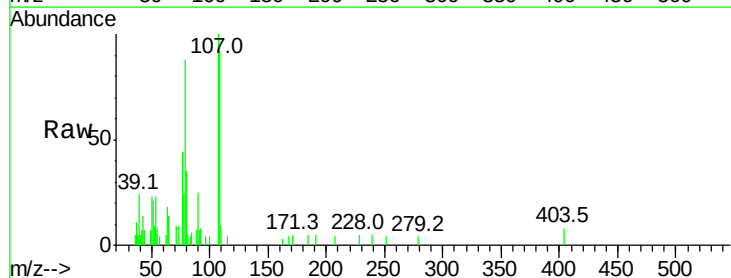
Ion Ratio Lower Upper

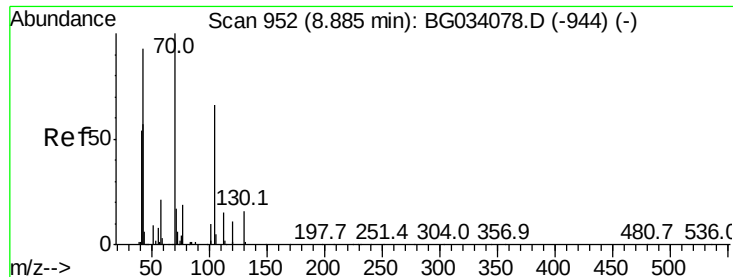
107 100

108 91.6 83.9 125.9

77 44.3 37.2 55.8

79 87.8 36.2 54.2#





#19

n-Nitroso-di-n-propylamine

Concen: 2.218 ng

RT: 8.87 min Scan# 951

Delta R.T. -0.01 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

Tot Ion: 70 Resp: 9859

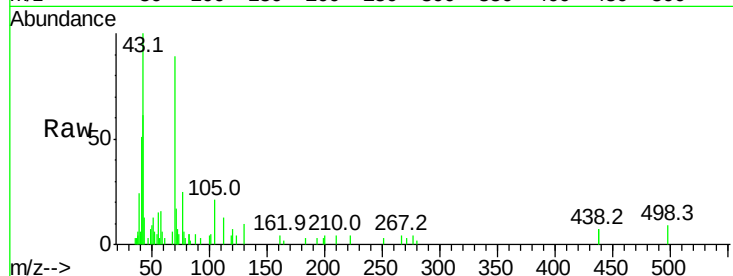
Ion Ratio Lower Upper

70 100

42 68.6 49.1 73.7

101 9.7 8.5 12.7

130 11.3 13.4 20.0#

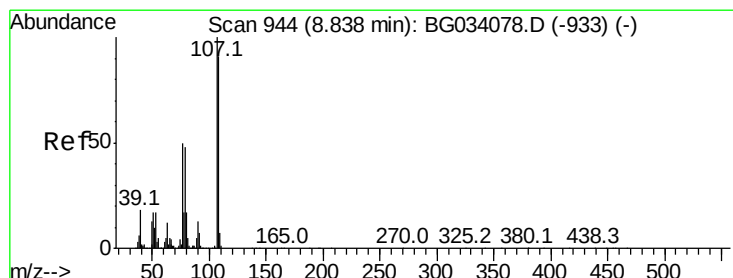
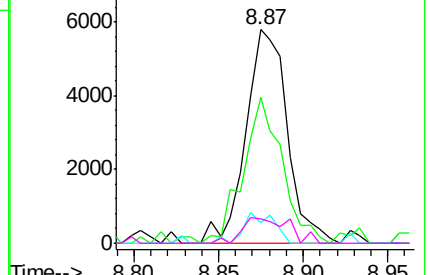
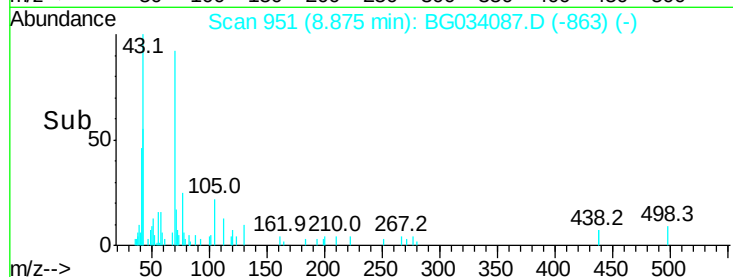


Abundance Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC



#20

3+4-Methylphenols

Concen: 2.046 ng

RT: 8.83 min Scan# 943

Delta R.T. -0.01 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

Tgt Ion: 107 Resp: 9950

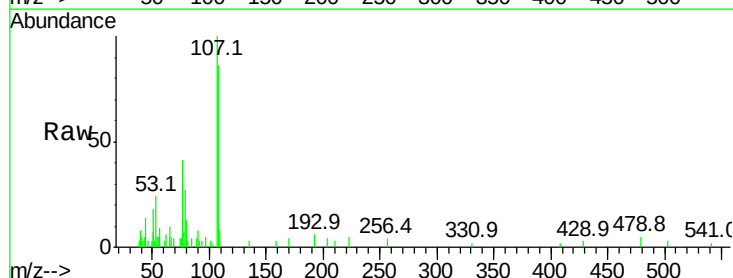
Ion Ratio Lower Upper

107 100

108 86.1 61.6 101.6

77 41.3 13.9 53.9

79 26.6 8.8 48.8

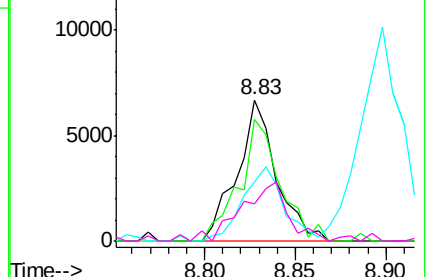
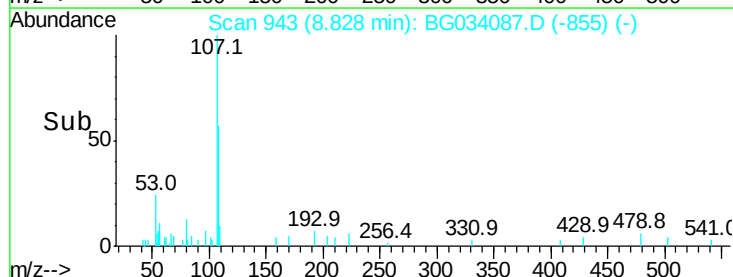


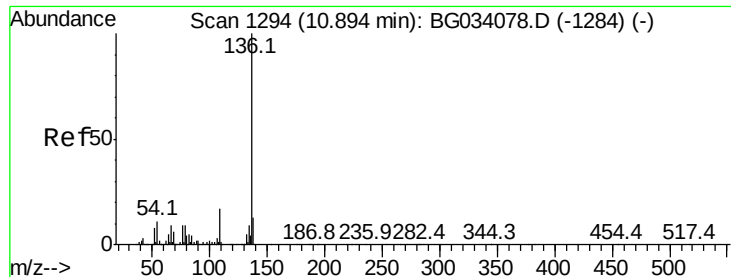
Abundance Ion 107.00 (106.70 to 107.70): BGC

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

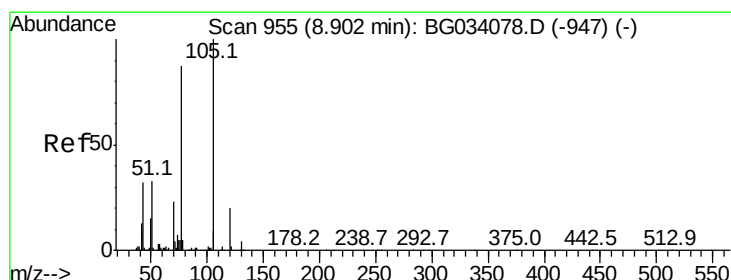
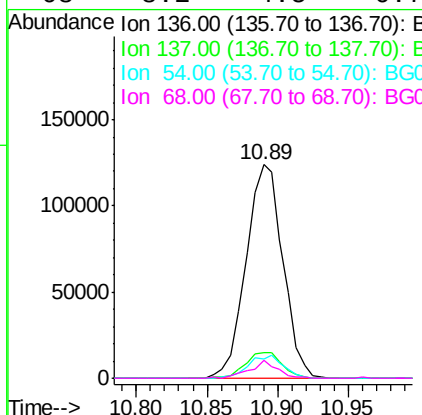
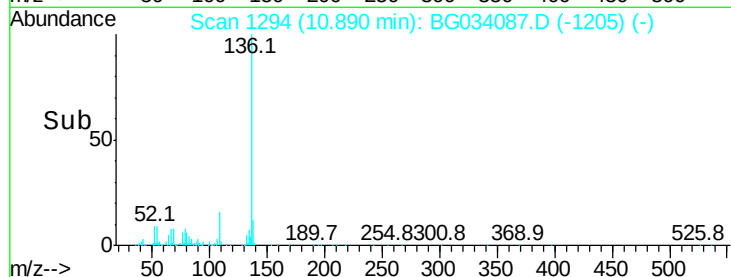
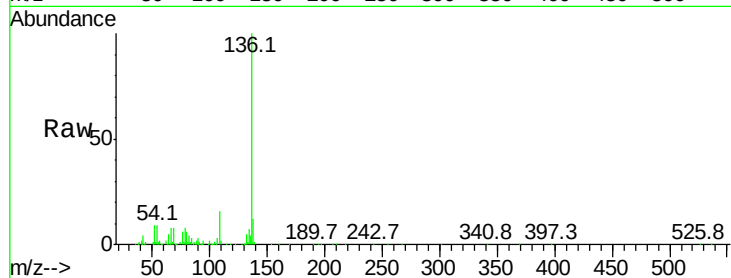




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.89 min Scan# 1294
Delta R.T. -0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

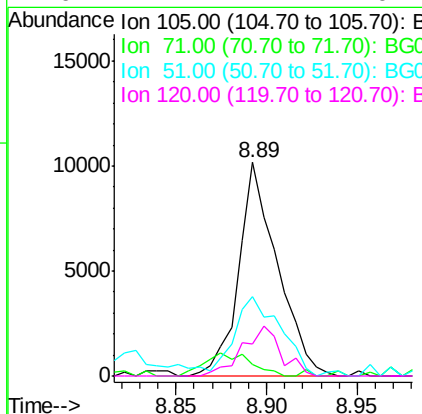
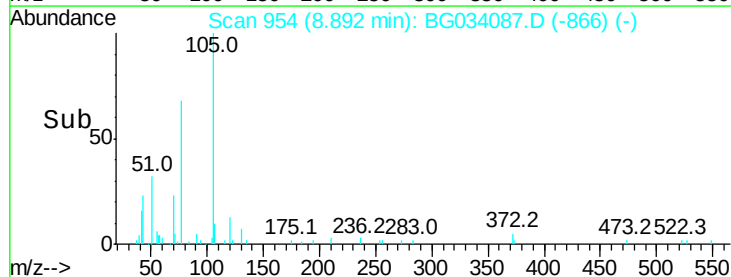
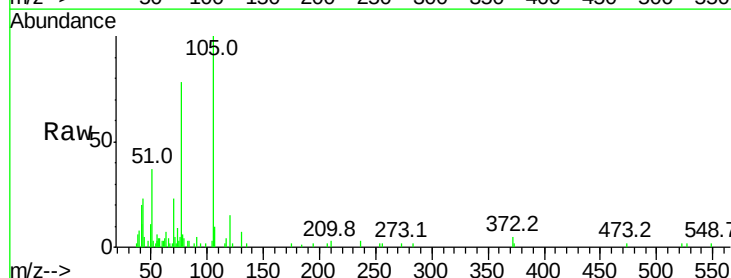
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

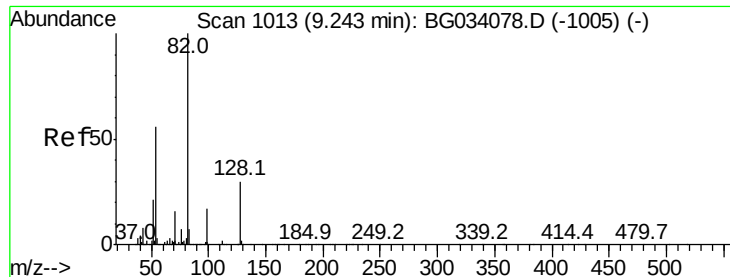
Tot Ion:136	Resp:	226549
Ion Ratio	Lower	Upper
136	100	
137	12.3	9.2 13.8
54	9.1	10.3 15.5#
68	8.2	4.5 6.7#



#22
Acetophenone
Concen: 1.957 ng
RT: 8.89 min Scan# 954
Delta R.T. -0.01 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Tgt Ion:105	Resp:	15105
Ion Ratio	Lower	Upper
105	100	
71	5.3	3.0 4.4#
51	37.2	26.1 39.1
120	14.7	17.4 26.2#

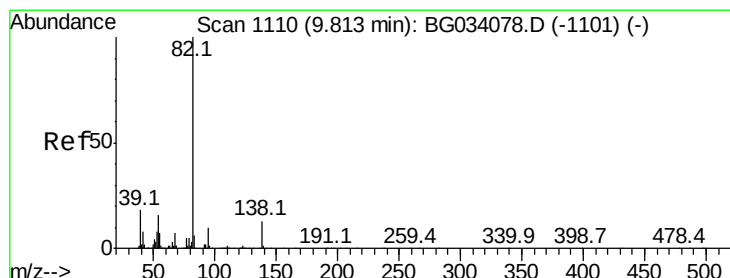
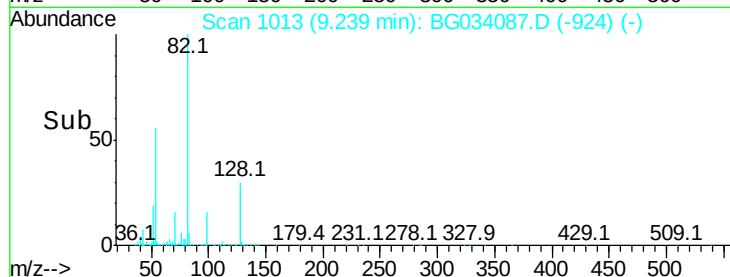
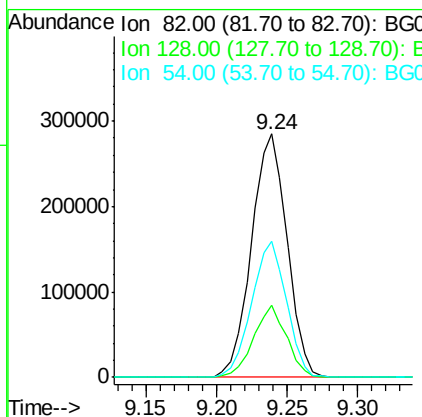
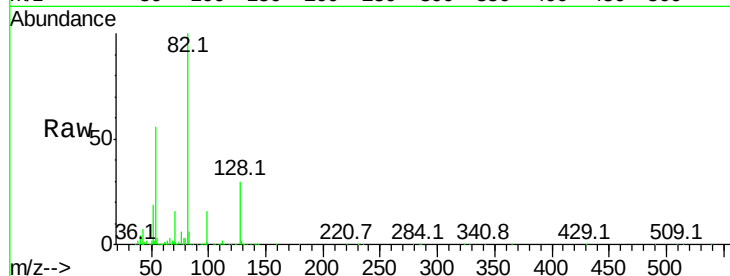




#23
Nitrobenzene-d5
Concen: 85.294 ng
RT: 9.24 min Scan# 1013
Delta R.T. -0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

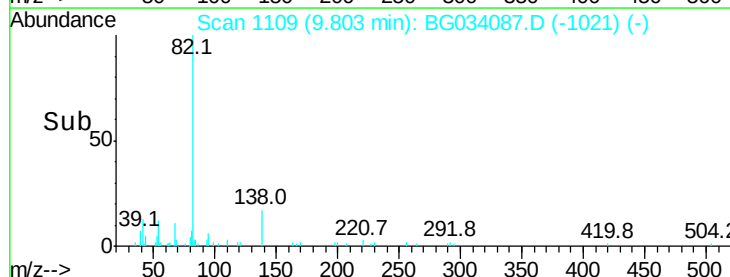
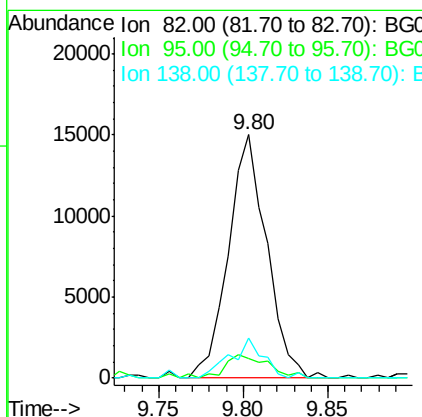
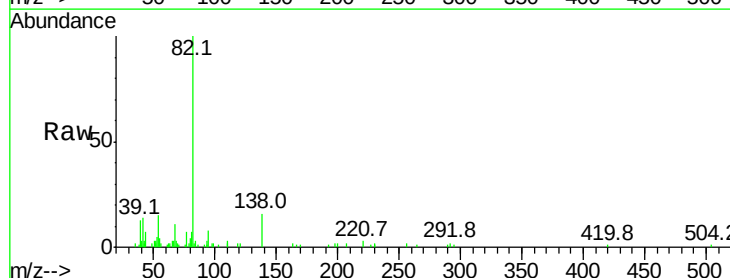
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

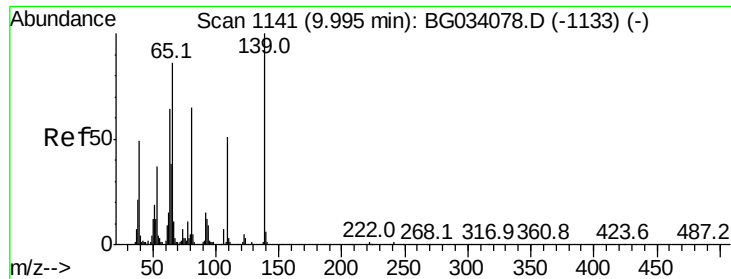
Tot Ion: 82 Resp: 503630
Ion Ratio Lower Upper
82 100
128 29.8 29.7 44.5
54 55.8 43.1 64.7



#25
Isophorone
Concen: 1.959 ng
RT: 9.80 min Scan# 1109
Delta R.T. -0.01 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Tgt Ion: 82 Resp: 23602
Ion Ratio Lower Upper
82 100
95 8.3 6.2 9.2
138 16.3 12.1 18.1

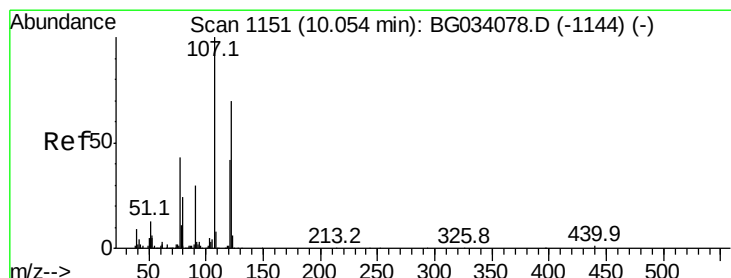
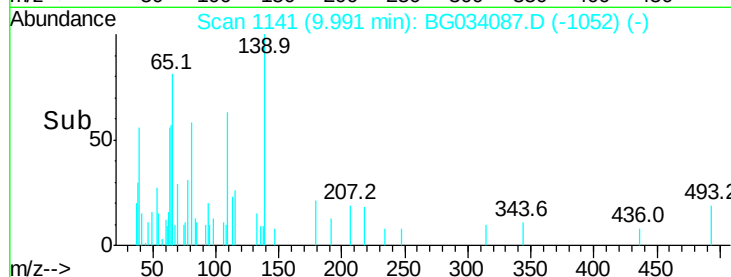
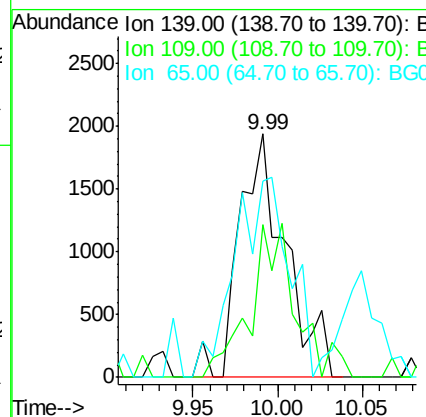
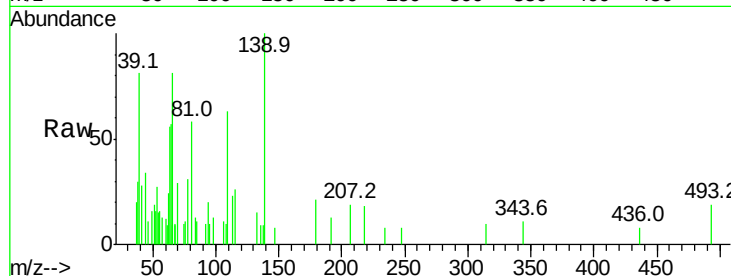




#26
 2-Nitrophenol
 Concen: 2.048 ng
 RT: 9.99 min Scan# 1141
 Delta R.T. -0.00 min
 Lab File: BG034087.D
 Acq: 1 May 2018 20:29

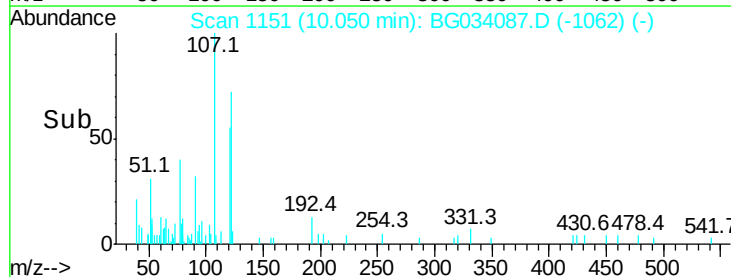
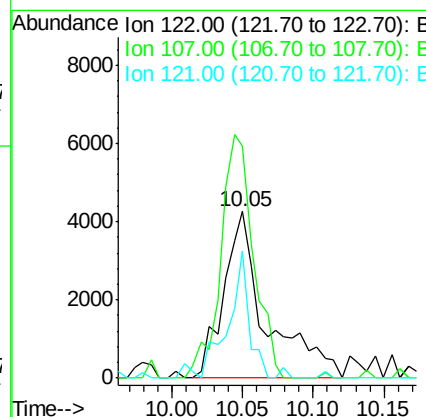
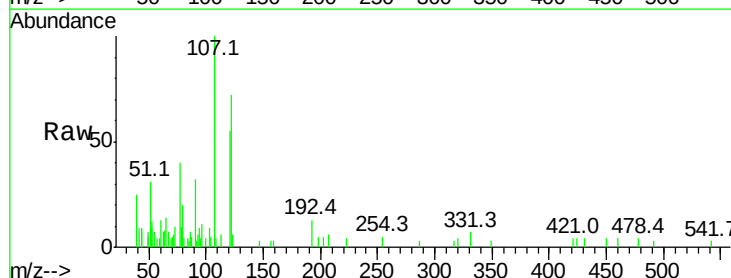
Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

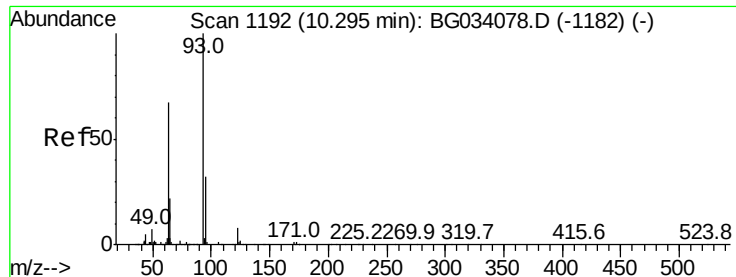
Tot Ion	Ratio	Lower	Upper
139	100		
109	62.6	24.2	36.2#
65	80.5	47.4	71.0#



#27
 2,4-Dimethylphenol
 Concen: 2.550 ng
 RT: 10.05 min Scan# 1151
 Delta R.T. -0.00 min
 Lab File: BG034087.D
 Acq: 1 May 2018 20:29

Tgt Ion	Ratio	Lower	Upper
122	100		
107	139.3	100.2	150.2
121	76.1	44.4	66.6#

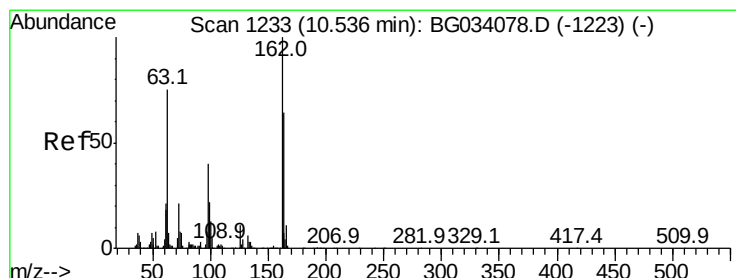
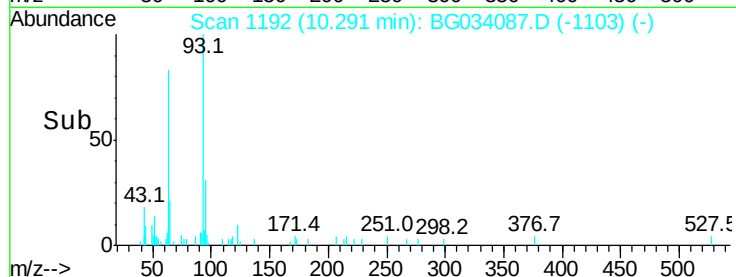
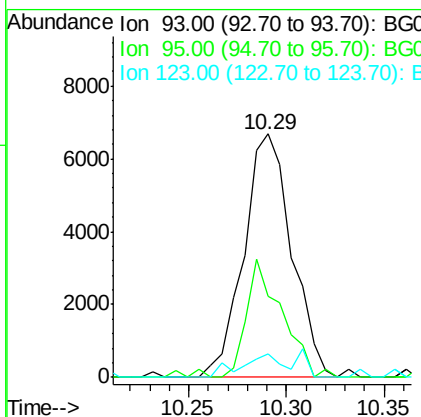
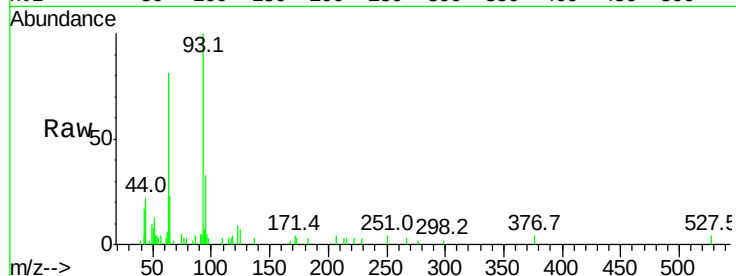




#28
bis(2-Chloroethoxy)methane
Concen: 1.918 ng
RT: 10.29 min Scan# 1192
Delta R.T. -0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

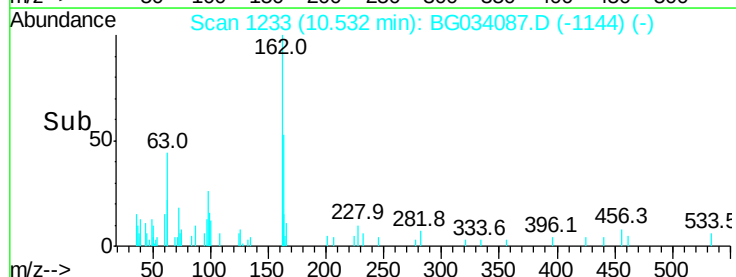
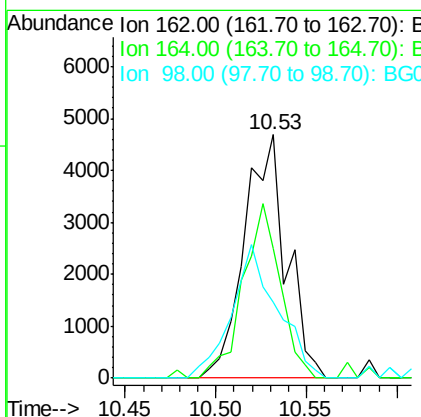
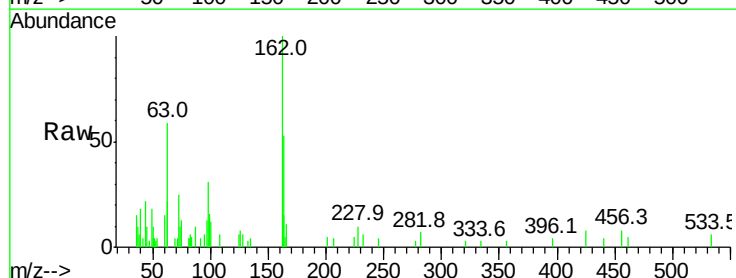
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

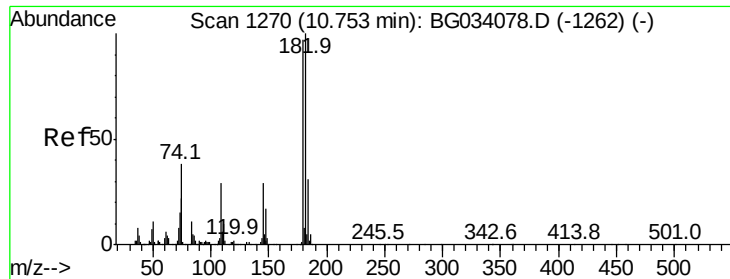
Tot Ion:	93	Resp:	11350
Ion	Ratio	Lower	Upper
93	100		
95	33.5	24.3	36.5
123	9.4	8.4	12.6



#29
2,4-Dichlorophenol
Concen: 1.823 ng
RT: 10.53 min Scan# 1233
Delta R.T. -0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Tgt Ion:	162	Resp:	7560
Ion	Ratio	Lower	Upper
162	100		
164	58.1	48.0	88.0
98	31.4	21.1	61.1

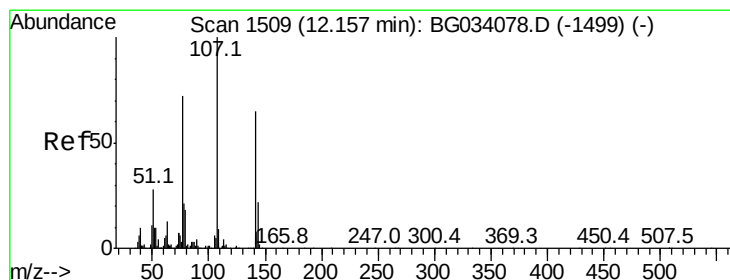
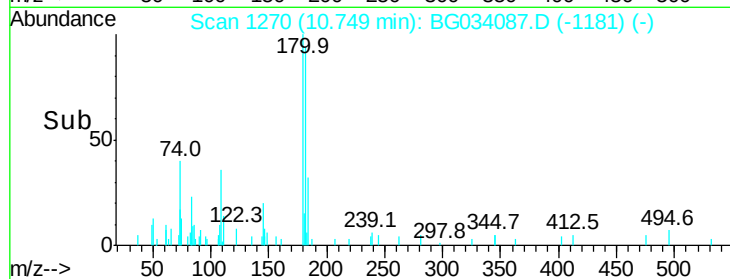
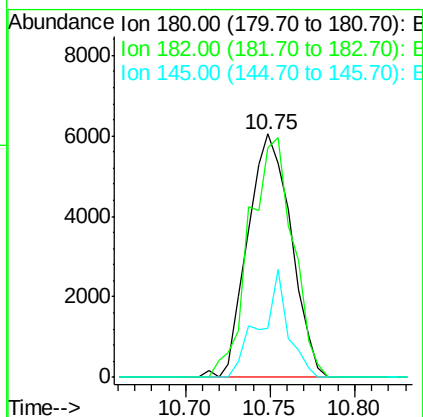
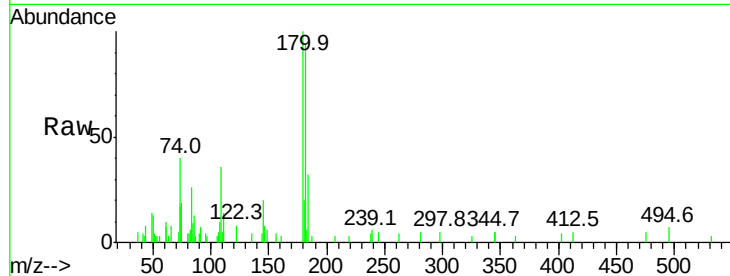




#30
 1,2,4-Trichlorobenzene
 Concen: 2.152 ng
 RT: 10.75 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: BG034087.D
 Acq: 1 May 2018 20:29

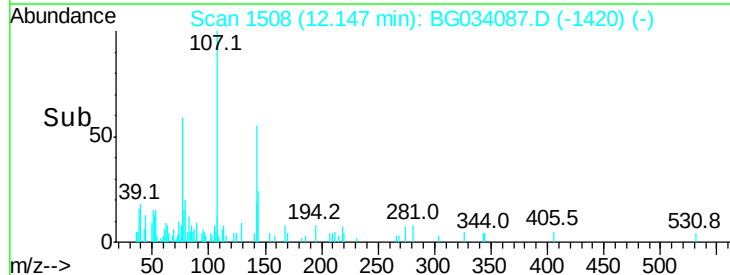
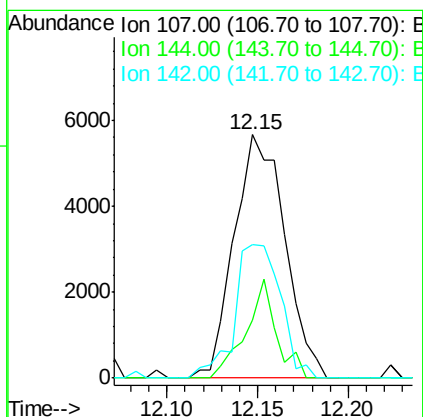
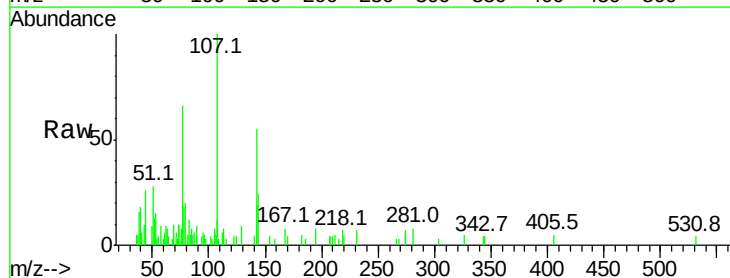
Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

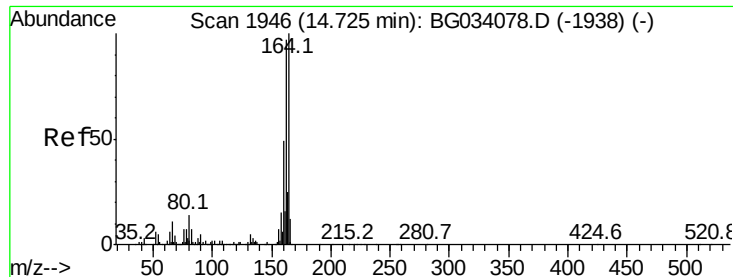
Tot Ion:180 Resp: 10742
 Ion Ratio Lower Upper
 180 100
 182 94.1 77.5 116.3
 145 20.4 23.4 35.2#



#36
 4-Chloro-3-methylphenol
 Concen: 2.045 ng
 RT: 12.15 min Scan# 1508
 Delta R.T. -0.01 min
 Lab File: BG034087.D
 Acq: 1 May 2018 20:29

Tgt Ion:107 Resp: 10996
 Ion Ratio Lower Upper
 107 100
 144 24.0 18.2 27.4
 142 54.7 59.0 88.4#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.71 min Scan# 1945

Delta R.T. -0.01 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

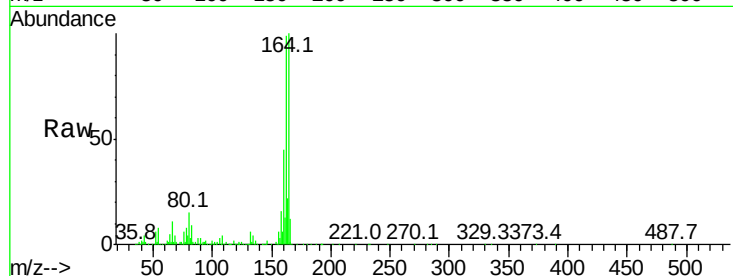
Tot Ion:164 Resp: 176682

Ion Ratio Lower Upper

164 100

162 99.1 78.8 118.2

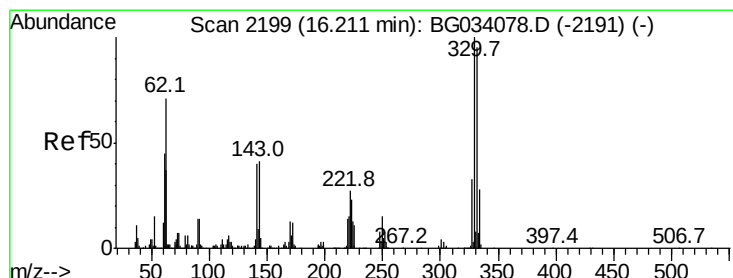
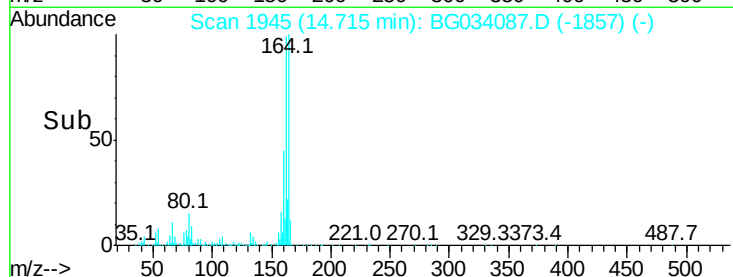
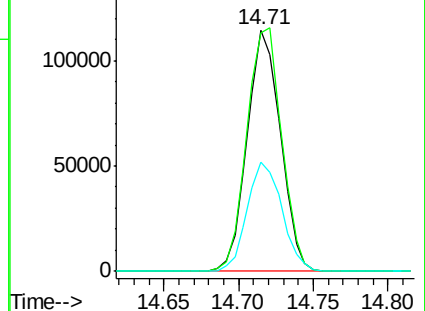
160 45.0 35.4 53.0



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: 143.223 ng

RT: 16.21 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

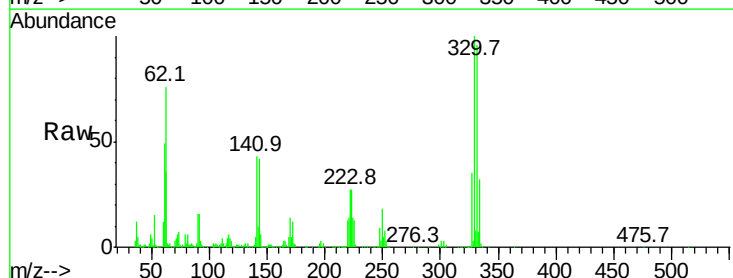
Tgt Ion:330 Resp: 350400

Ion Ratio Lower Upper

330 100

332 95.5 77.0 115.6

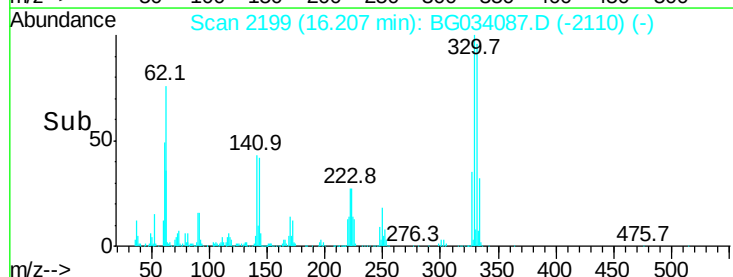
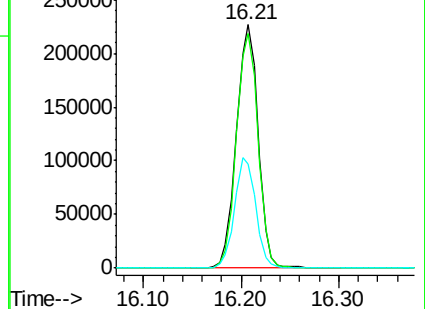
141 44.2 25.2 37.8#

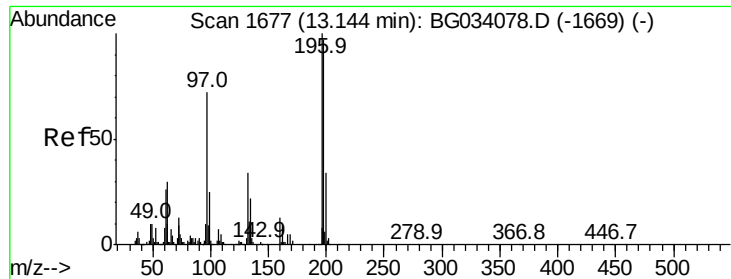


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

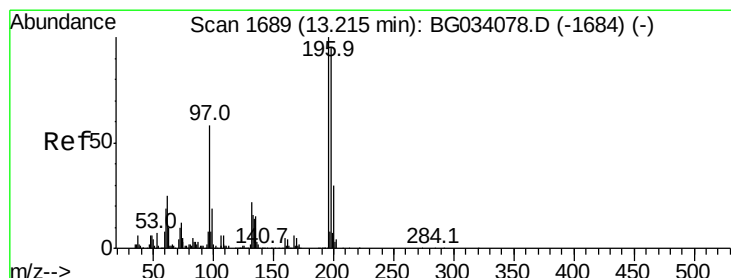
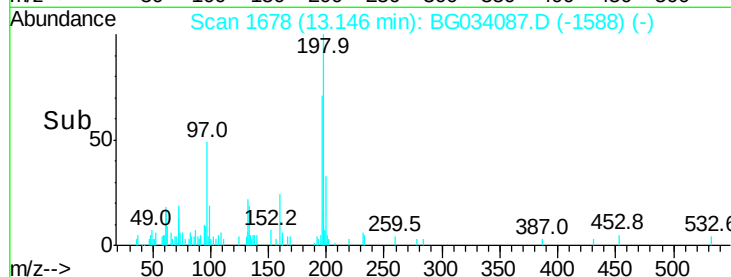
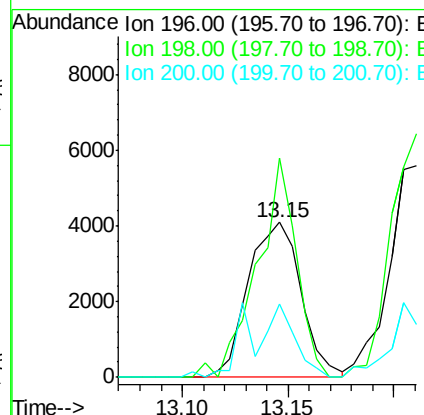
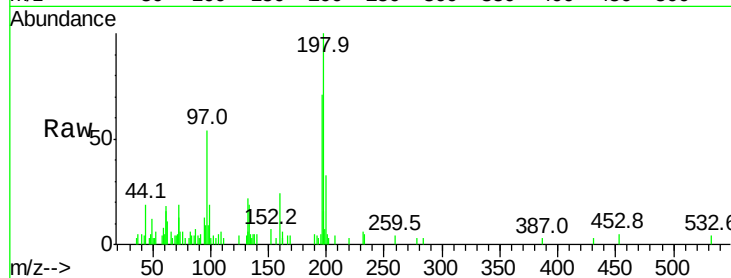




#42
2,4,6-Trichlorophenol
Concen: 1.789 ng
RT: 13.15 min Scan# 1678
Delta R.T. 0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

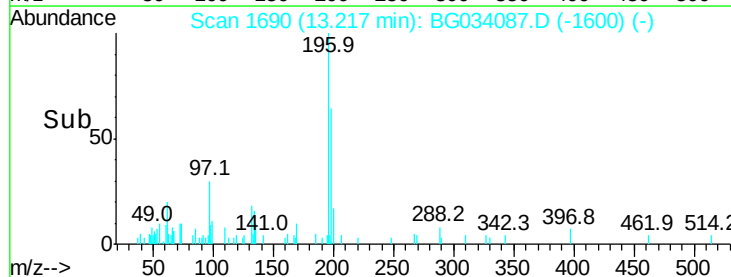
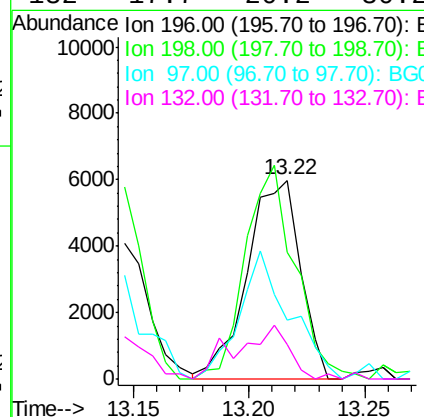
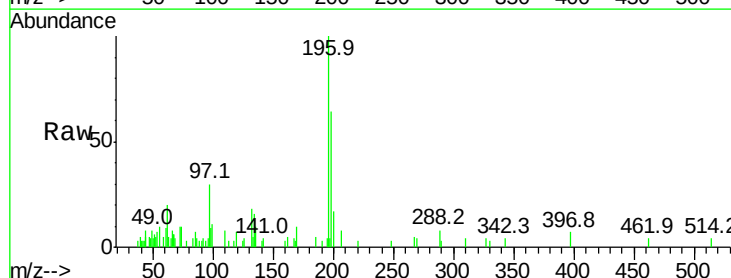
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

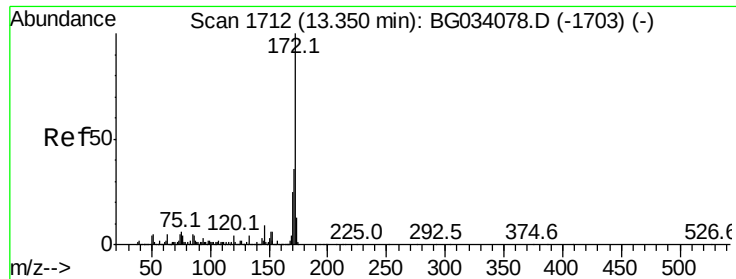
Tot Ion:196 Resp: 7108
Ion Ratio Lower Upper
196 100
198 150.2 78.2 117.2#
200 46.9 24.6 36.8#



#43
2,4,5-Trichlorophenol
Concen: 2.181 ng
RT: 13.22 min Scan# 1690
Delta R.T. 0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Tgt Ion:196 Resp: 9579
Ion Ratio Lower Upper
196 100
198 63.9 76.2 114.4#
97 29.8 38.7 58.1#
132 17.7 20.2 30.2#

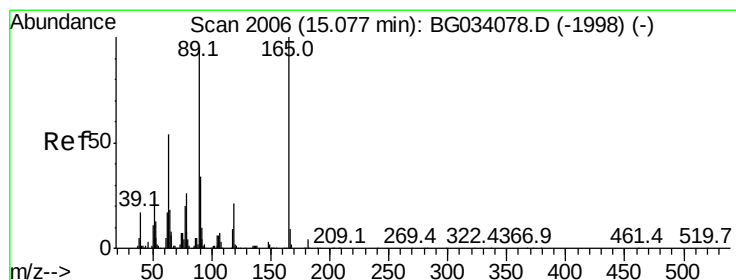
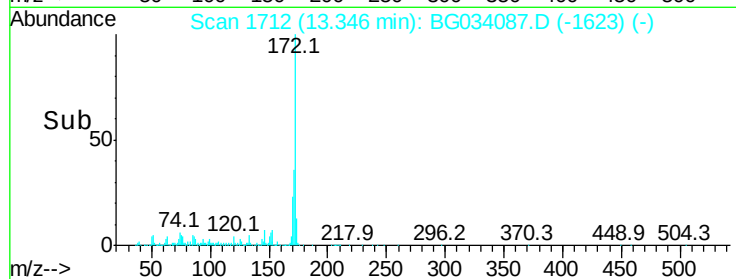
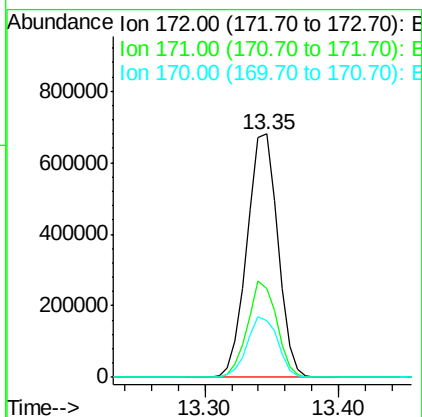
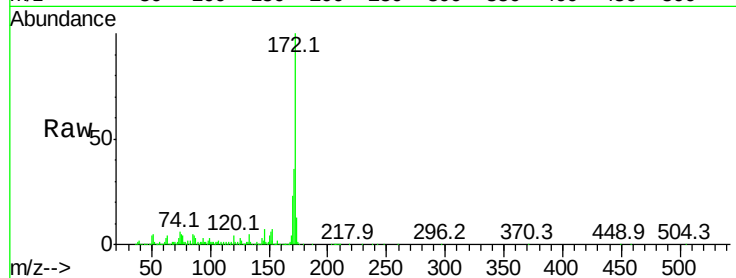




#44
2-Fluorobiphenyl
Concen: 88.819 ng
RT: 13.35 min Scan# 1712
Delta R.T. -0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

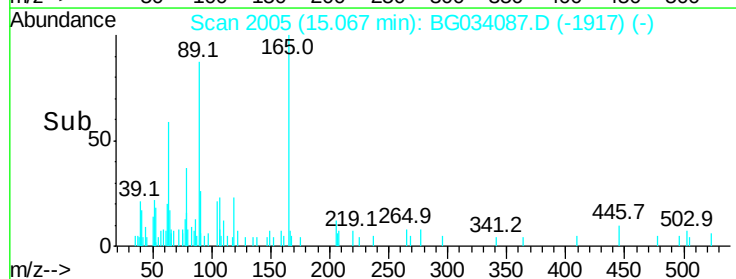
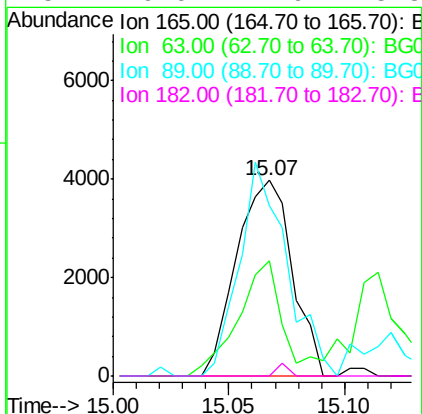
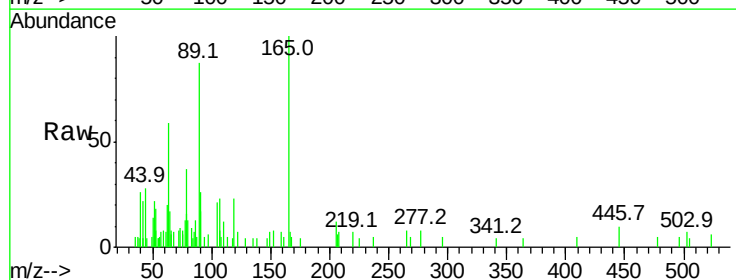
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

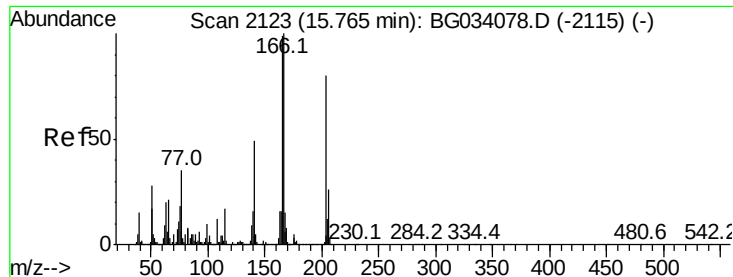
Tot Ion:172 Resp: 1076944
Ion Ratio Lower Upper
172 100
171 36.4 30.0 45.0
170 23.2 19.5 29.3



#56
2,4-Dinitrotoluene
Concen: 1.667 ng
RT: 15.07 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Tgt Ion:165 Resp: 6662
Ion Ratio Lower Upper
165 100
63 58.7 42.0 63.0
89 87.2 66.9 100.3
182 0.0 2.6 3.8#

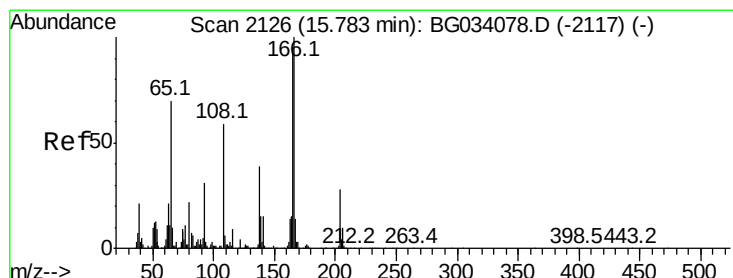
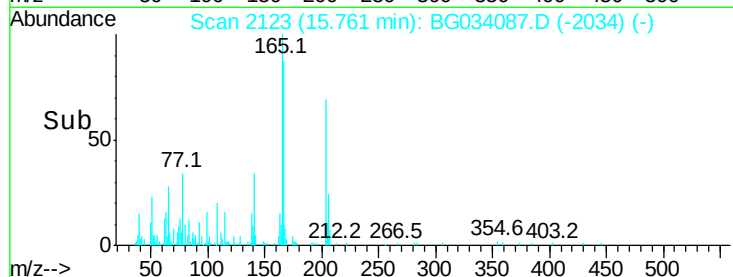
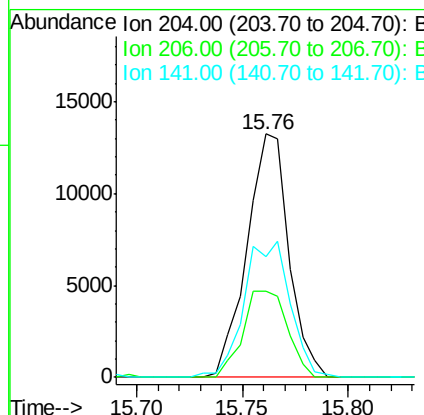
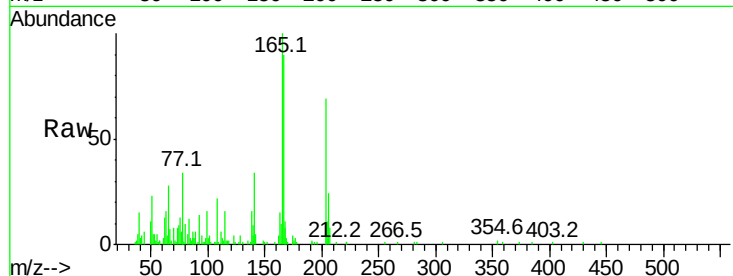




#60
4-Chlorophenyl-phenylether
Concen: 2.147 ng
RT: 15.76 min Scan# 2123
Delta R.T. -0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

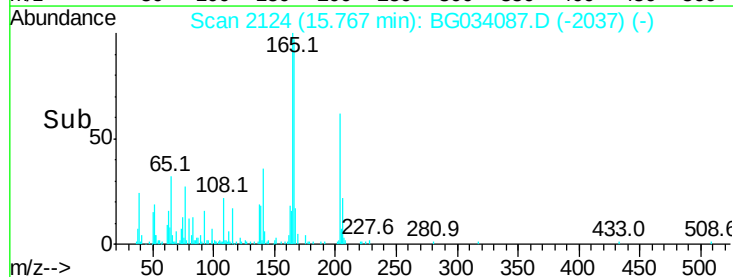
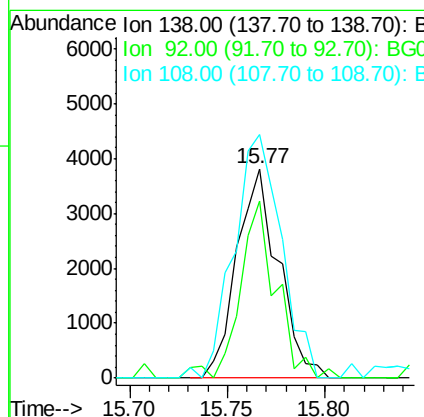
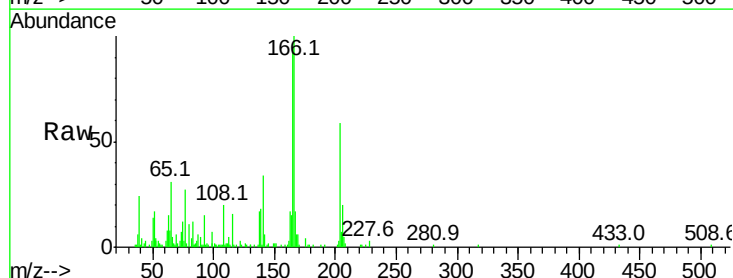
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

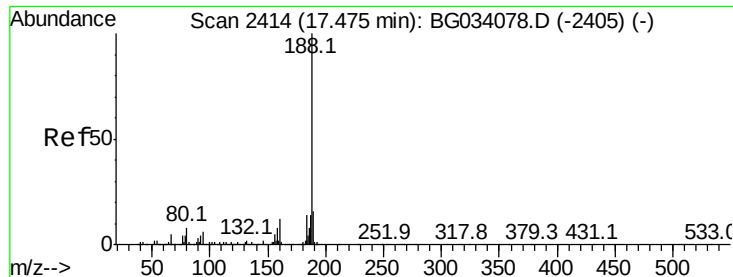
Tot Ion:204 Resp: 18304
Ion Ratio Lower Upper
204 100
206 35.4 26.2 39.2
141 49.4 45.8 68.6



#61
4-Nitroaniline
Concen: 1.787 ng
RT: 15.77 min Scan# 2124
Delta R.T. -0.02 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Tgt Ion:138 Resp: 5621
Ion Ratio Lower Upper
138 100
92 84.7 40.1 80.1#
108 116.2 65.4 105.4#

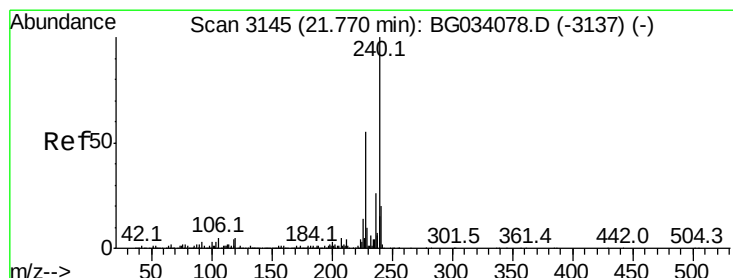
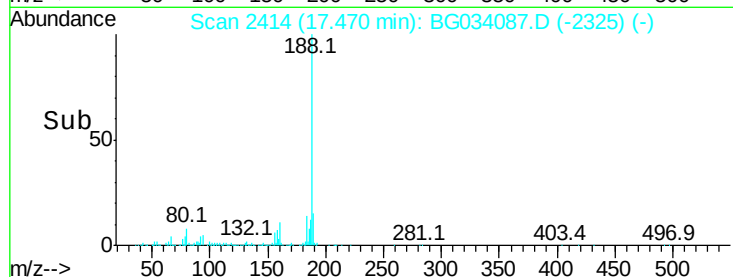
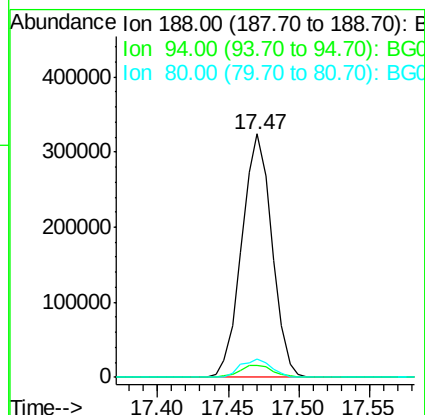
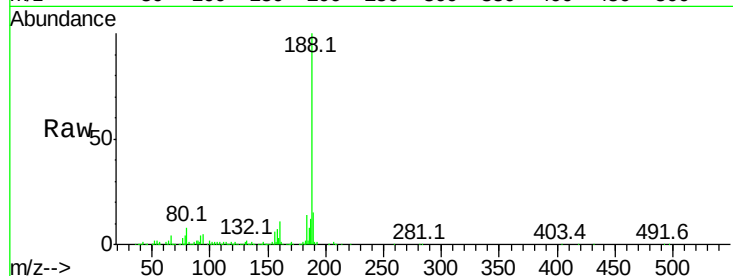




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.47 min Scan# 2414
Delta R.T. -0.00 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

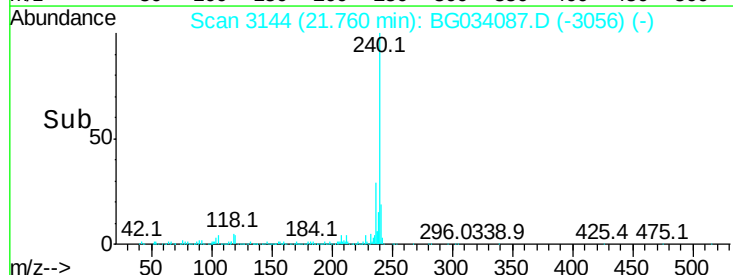
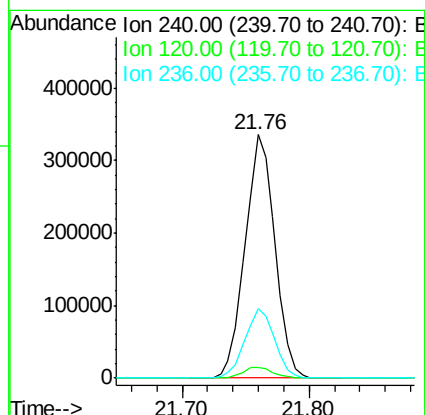
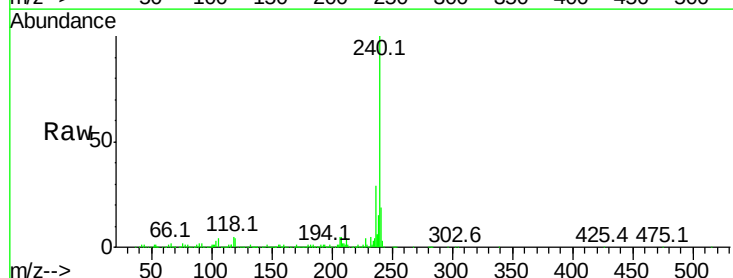
Instrument :
BNA_G
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2018

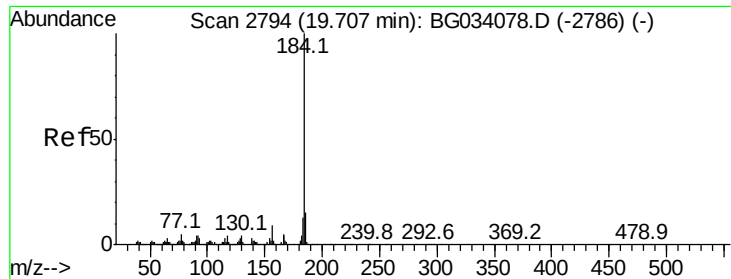
Tot Ion:188 Resp: 484612
Ion Ratio Lower Upper
188 100
94 5.1 6.9 10.3#
80 7.6 7.7 11.5#



#75
Chrysene-d12
Concen: 20.000 ng
RT: 21.76 min Scan# 3144
Delta R.T. -0.01 min
Lab File: BG034087.D
Acq: 1 May 2018 20:29

Tgt Ion:240 Resp: 548022
Ion Ratio Lower Upper
240 100
120 4.4 6.8 10.2#
236 28.8 20.9 31.3





#76

Benzidine

Concen: 1.143 ng

RT: 19.70 min Scan# 2794

Delta R.T. -0.00 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

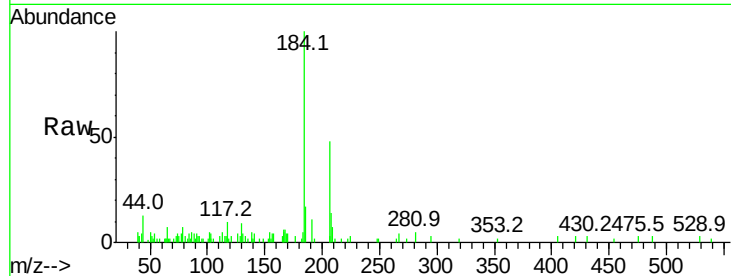
Tot Ion:184 Resp: 16132

Ion Ratio Lower Upper

184 100

185 17.2 11.1 16.7#

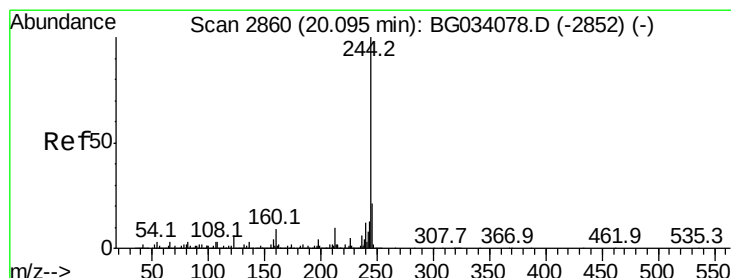
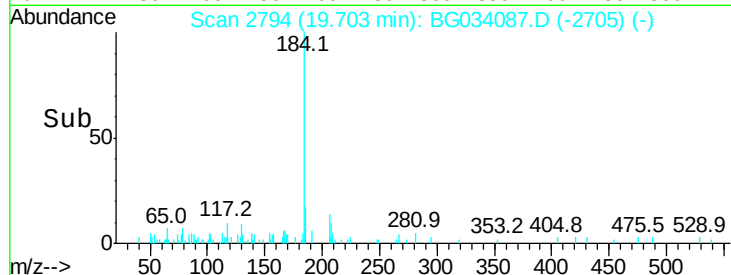
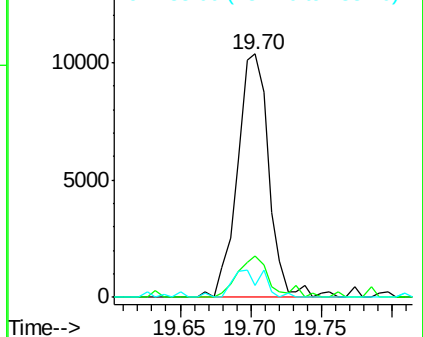
183 5.0 10.6 16.0#



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: 84.044 ng

RT: 20.09 min Scan# 2860

Delta R.T. -0.00 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

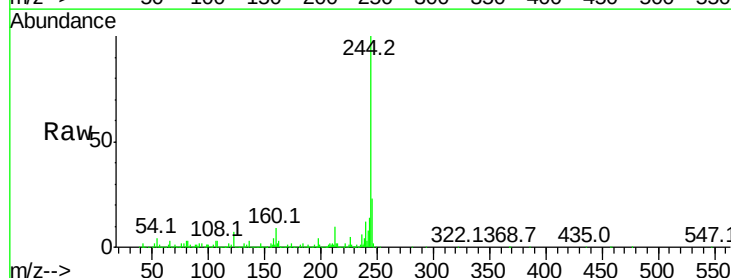
Tgt Ion:244 Resp: 2102460

Ion Ratio Lower Upper

244 100

212 10.5 5.8 8.8#

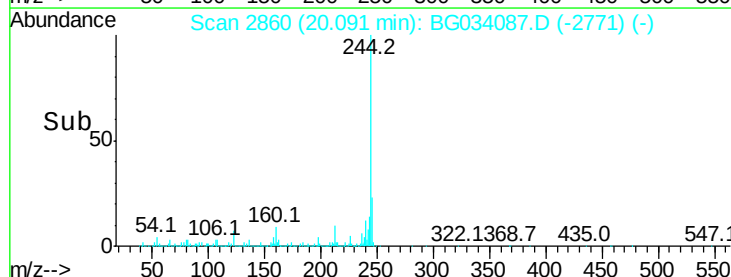
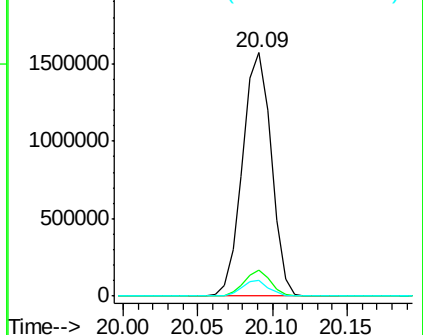
122 6.6 7.0 10.4#

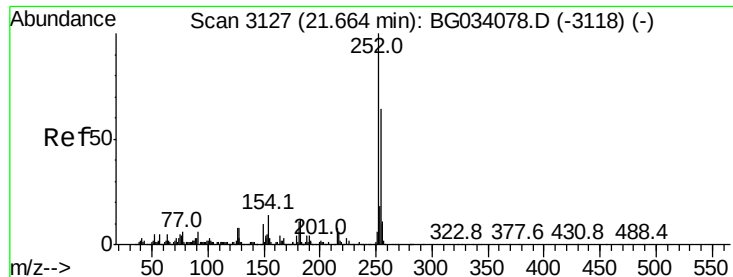


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

3,3'-Dichlorobenzidine

Concen: 1.936 ng

RT: 21.66 min Scan# 3127

Delta R.T. -0.00 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

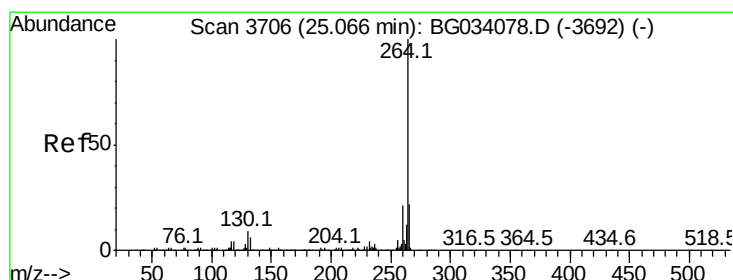
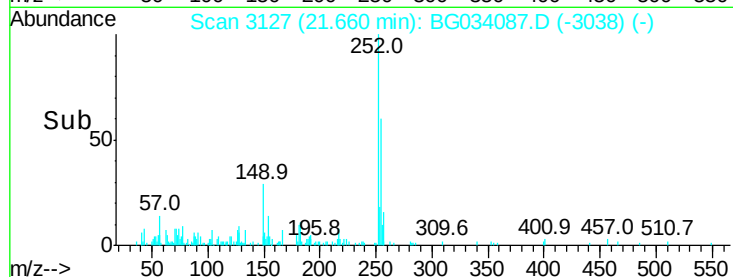
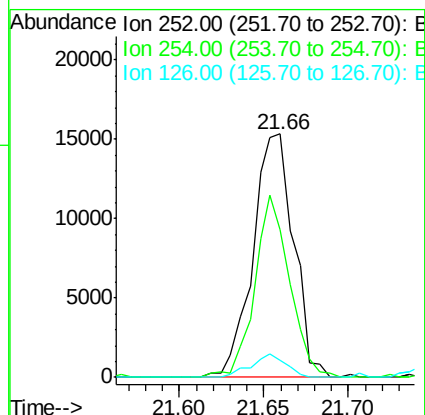
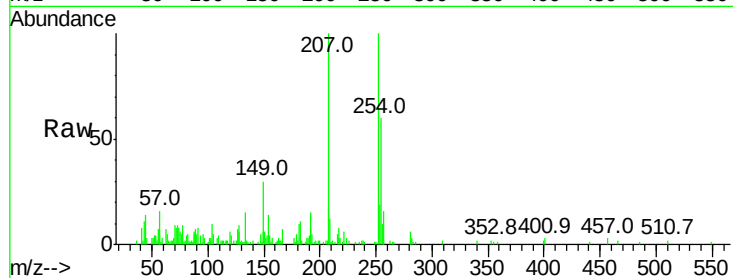
Instrument :

BNA_G

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2018

Tot Ion:	252	Resp:	25718
Ion	Ratio	Lower	Upper
252	100		
254	60.4	50.8	76.2
126	7.0	7.4	11.2#



#86

Perylene-d12

Concen: 20.000 ng

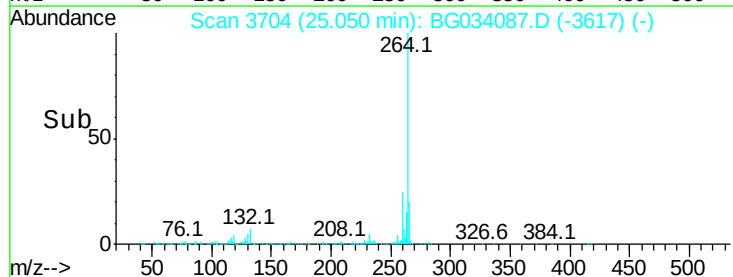
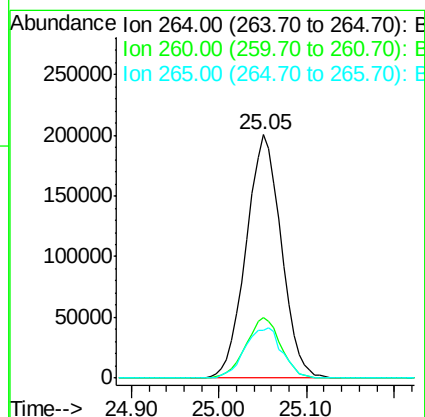
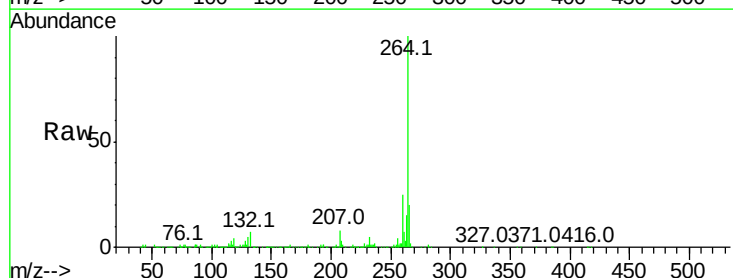
RT: 25.05 min Scan# 3704

Delta R.T. -0.02 min

Lab File: BG034087.D

Acq: 1 May 2018 20:29

Tgt Ion:	264	Resp:	546845
Ion	Ratio	Lower	Upper
264	100		
260	24.8	17.4	26.0
265	19.6	17.7	26.5



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG050118\
 Data File : BG034087.D
 Acq On : 1 May 2018 20:29
 Operator : SJ/JU
 Sample : J2133-01
 Misc : 2PPM LOD
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2018

Quant Time: May 02 05:43:12 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	51357	20.00	ng	0.00
21) Naphthalene-d8	10.89	136	226549	20.00	ng	0.00
38) Acenaphthene-d10	14.71	164	176682	20.00	ng	-0.01
63) Phenanthrene-d10	17.47	188	484612	20.00	ng	0.00
75) Chrysene-d12	21.76	240	548022	20.00	ng	-0.01
86) Perylene-d12	25.05	264	546845	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.64	112	462527	145.51	ng	0.00
7) Phenol-d6	7.22	99	690434	139.52	ng	0.00
23) Nitrobenzene-d5	9.24	82	503630	85.29	ng	0.00
41) 2,4,6-Tribromophenol	16.21	330	350400	143.22	ng	0.00
44) 2-Fluorobiphenyl	13.35	172	1076944	88.82	ng	0.00
78) Terphenyl-d14	20.09	244	2102460	84.04	ng	0.00

Target Compounds

						Qvalue
17) 2-Methylphenol	8.50	107	7292	2.220	ng	# 77
19) n-Nitroso-di-n-propylamine	8.87	70	9859	2.218	ng	# 91
20) 3+4-Methylphenols	8.83	107	9950	2.046	ng	93
22) Acetophenone	8.89	105	15105	1.957	ng	# 90
25) Isophorone	9.80	82	23602	1.959	ng	98
26) 2-Nitrophenol	9.99	139	3665	2.048	ng	# 61
27) 2,4-Dimethylphenol	10.05	122	8845	2.550	ng	# 83
28) bis(2-Chloroethoxy)methane	10.29	93	11350	1.918	ng	95
29) 2,4-Dichlorophenol	10.53	162	7560	1.823	ng	87
30) 1,2,4-Trichlorobenzene	10.75	180	10742	2.152	ng	# 94
36) 4-Chloro-3-methylphenol	12.15	107	10996	2.045	ng	# 82
42) 2,4,6-Trichlorophenol	13.15	196	7108	1.789	ng	# 52
43) 2,4,5-Trichlorophenol	13.22	196	9579	2.181	ng	# 72
56) 2,4-Dinitrotoluene	15.07	165	6662	1.667	ng	# 94
60) 4-Chlorophenyl-phenylether	15.76	204	18304	2.147	ng	91
61) 4-Nitroaniline	15.77	138	5621	1.787	ng	# 67
76) Benzidine	19.70	184	16132	1.143	ng	# 86
81) 3,3'-Dichlorobenzidine	21.66	252	25718	1.936	ng	# 96

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