

Data Path : Z:\HPCHEM1\BNA_G\Data\BG060815\
 Data File : BG017569.D
 Acq On : 9 Jun 2015 10:42
 Operator : TP/IZ
 Sample : G2464-07DL 25X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-12DDL

Quant Time: Jun 09 11:54:00 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 08 18:39:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	20061	20.00	ng	0.00
21) Naphthalene-d8	10.40	136	87488	20.00	ng	0.00
38) Acenaphthene-d10	14.27	164	54660	20.00	ng	-0.02
63) Phenanthrene-d10	17.02	188	111967	20.00	ng	-0.02
75) Chrysene-d12	21.22	240	126178	20.00	ng	-0.02
86) Perylene-d12	23.44	264	127627	20.00	ng	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.21	112	3932	3.45	ng	0.00
7) Phenol-d6	6.82	99	5174	3.34	ng	0.00
23) Nitrobenzene-d5	8.77	82	4050	2.31	ng	0.00
41) 2,4,6-Tribromophenol	15.78	330	2069	2.73	ng	0.00
44) 2-Fluorobiphenyl	12.89	172	10241	2.83	ng	-0.01
78) Terphenyl-d14	19.66	244	14727	2.41	ng	-0.02

Target Compounds

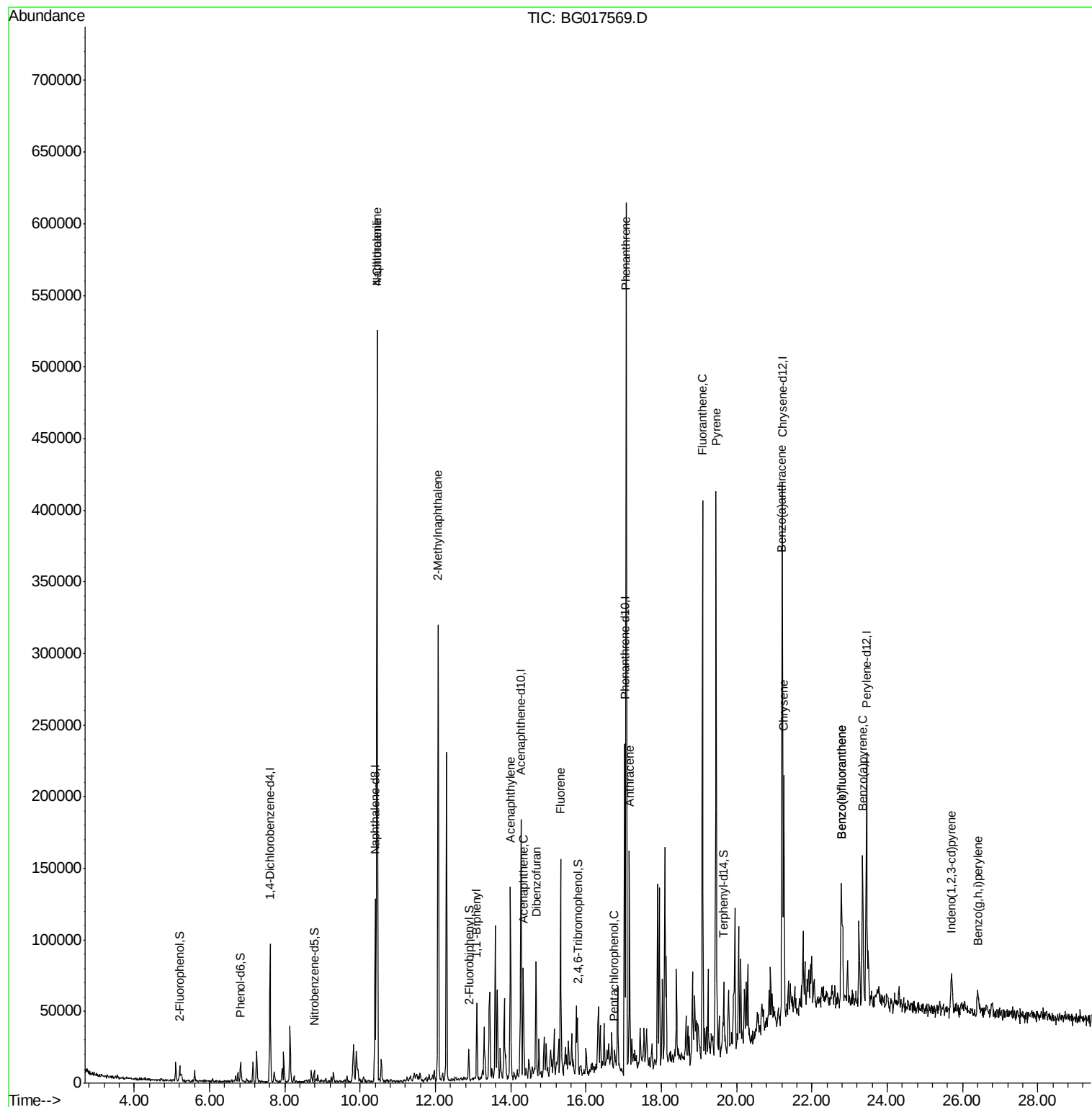
						Qvalue
31) Naphthalene	10.45	128	335213	73.34	ng	100
33) 4-Chloroaniline	10.45	127	46158	22.76	ng	# 34
37) 2-Methylnaphthalene	12.07	142	131415	37.40	ng	95
45) 1,1'-Biphenyl	13.10	154	21188	5.30	ng	90
48) Acenaphthylene	13.99	152	64251	10.92	ng	98
51) Acenaphthene	14.33	154	25650	7.39	ng	97
54) Dibenzofuran	14.67	168	29168	5.70	ng	# 89
57) Fluorene	15.33	166	59563	12.84	ng	95
69) Pentachlorophenol	16.73	266	54	5.56	ng	# 22
70) Phenanthrene	17.06	178	306711	49.13	ng	99
71) Anthracene	17.16	178	81093	13.00	ng	96
74) Fluoranthene	19.09	202	188580	23.10	ng	99
77) Pyrene	19.46	202	218518	28.11	ng	99
80) Benzo(a)anthracene	21.20	228	94562	12.19	ng	96
82) Chrysene	21.25	228	79372	11.30	ng	97
85) Indeno(1,2,3-cd)pyrene	25.70	276	25326	2.87	ng	98
87) Benzo(b)fluoranthene	22.78	252	98915	12.23	ng	96
88) Benzo(k)fluoranthene	22.78	252	98915	12.78	ng	96
89) Benzo(a)pyrene	23.35	252	73060	9.85	ng	99
91) Benzo(g,h,i)perylene	26.41	276	27101	3.69	ng	# 90

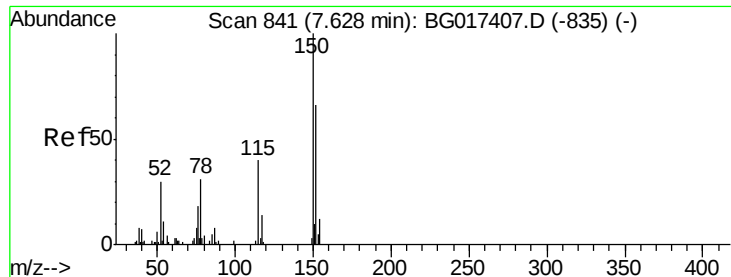
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA_G
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SB-12DDL

Quant Time: Jun 09 11:54:00 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 08 18:39:50 2015
Response via : Initial Calibration



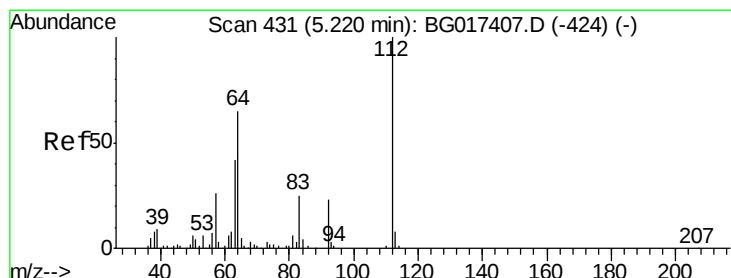
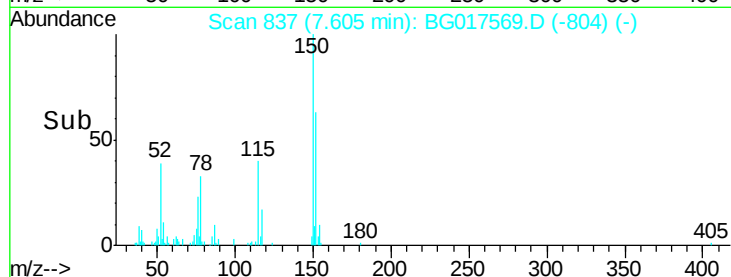
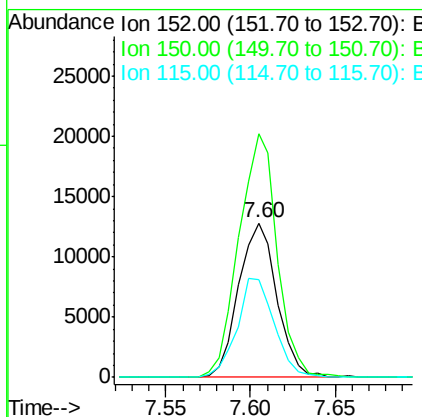
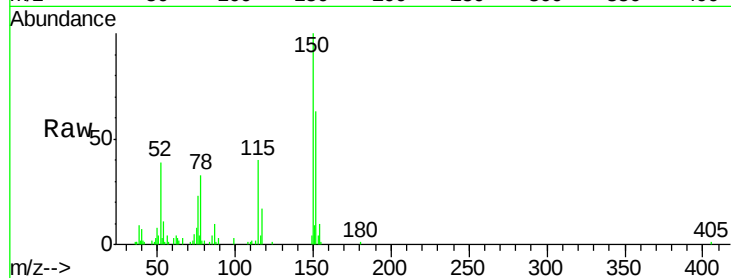


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.60 min Scan# 837
Delta R.T. -0.01 min
Lab File: BG017569.D
Acq: 9 Jun 2015 10:42

Instrument :
BNA_G
ClientSampled :
SB-12DDL

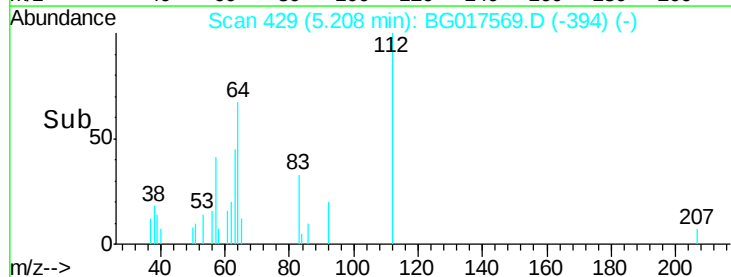
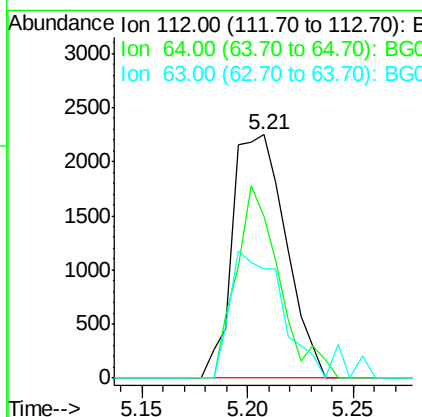
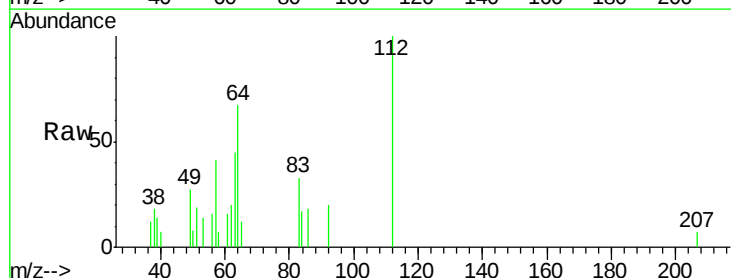
Tgt Ion:152 Resp: 20061
Ion Ratio Lower Upper
152 100
150 158.1 121.7 182.5
115 63.0 48.6 73.0

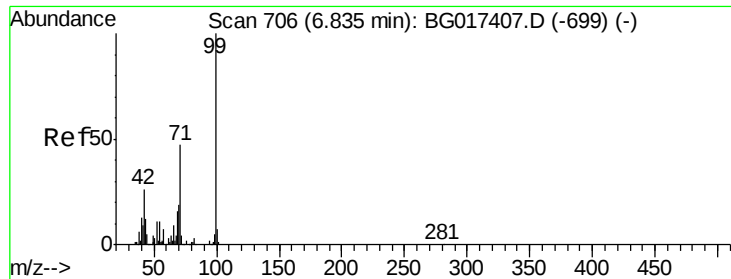


#5

2-Fluorophenol
Concen: 3.45 ng
RT: 5.21 min Scan# 429
Delta R.T. 0.00 min
Lab File: BG017569.D
Acq: 9 Jun 2015 10:42

Tgt Ion:112 Resp: 3932
Ion Ratio Lower Upper
112 100
64 66.6 51.6 77.4
63 44.8 33.3 49.9





#7

Phenol-d6

Concen: 3.34 ng

RT: 6.82 min Scan# 703

Delta R.T. -0.00 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

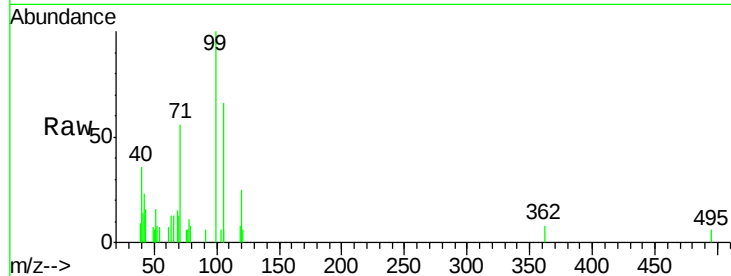
Tgt Ion: 99 Resp: 5174

Ion Ratio Lower Upper

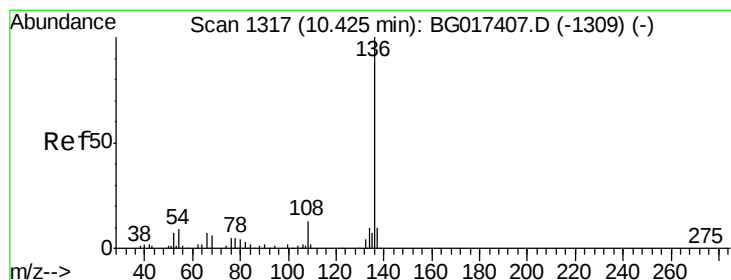
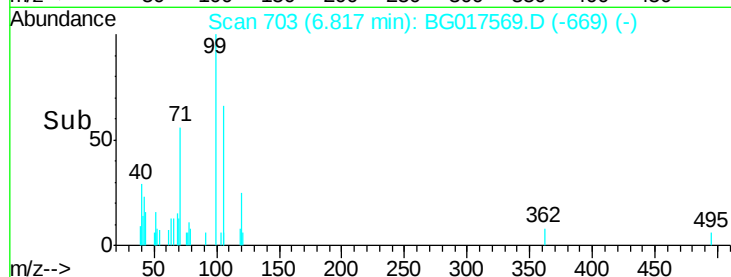
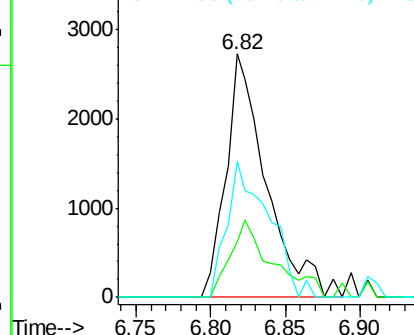
99 100

42 22.6 21.0 31.6

71 55.8 37.2 55.8#



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.40 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Tgt Ion: 136 Resp: 87488

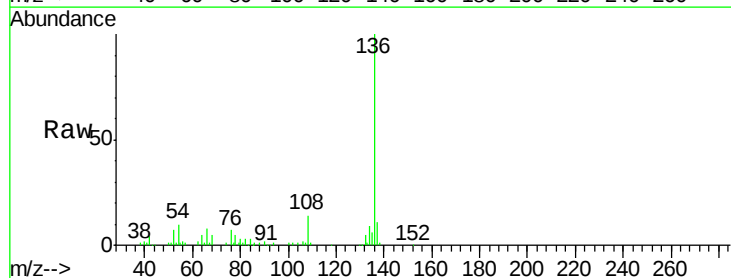
Ion Ratio Lower Upper

136 100

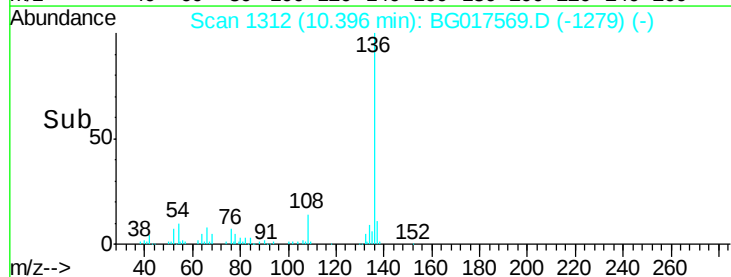
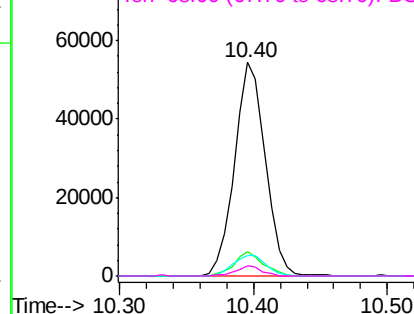
137 11.3 7.9 11.9

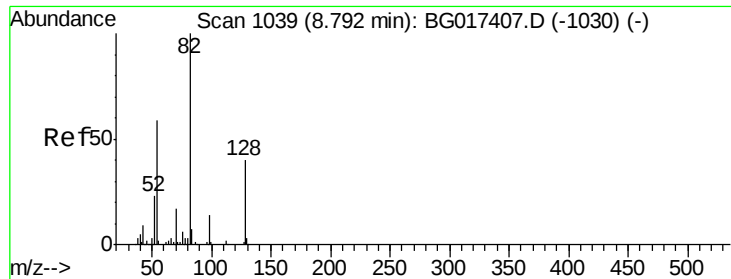
54 9.5 7.2 10.8

68 4.9 4.5 6.7



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

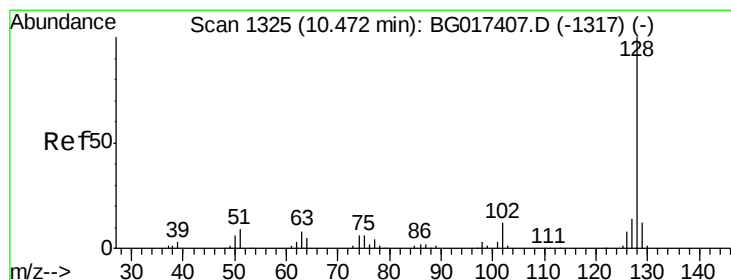
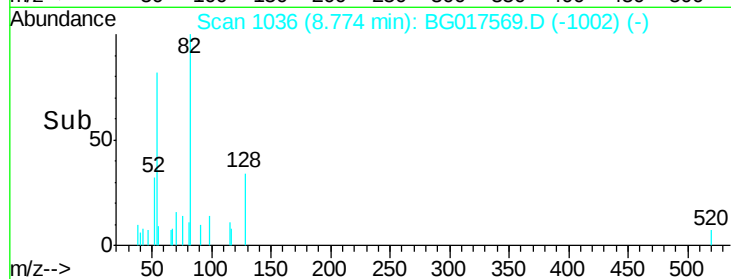
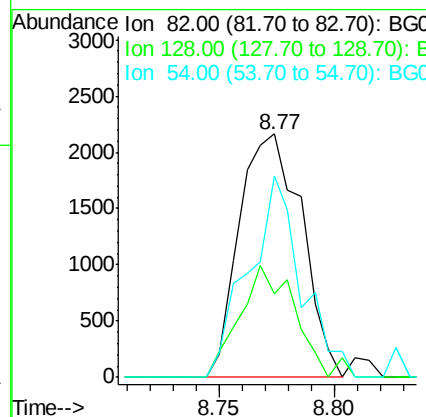
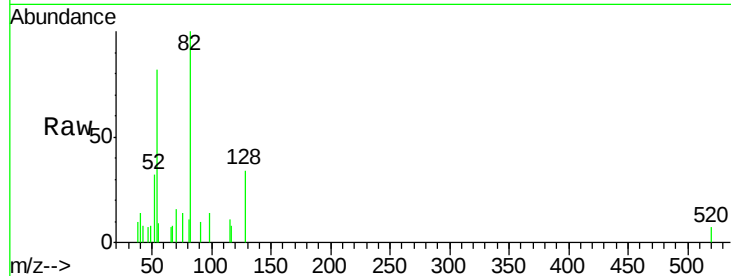




#23
 Nitrobenzene-d5
 Concen: 2.31 ng
 RT: 8.77 min Scan# 1036
 Delta R.T. -0.00 min
 Lab File: BG017569.D
 Acq: 9 Jun 2015 10:42

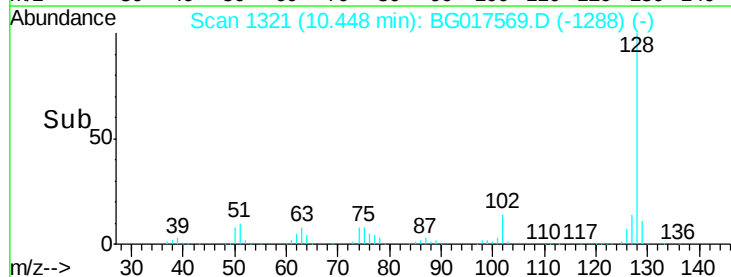
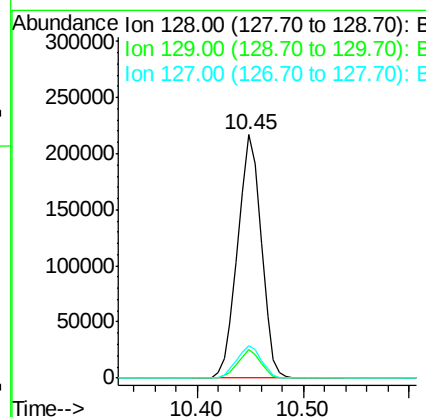
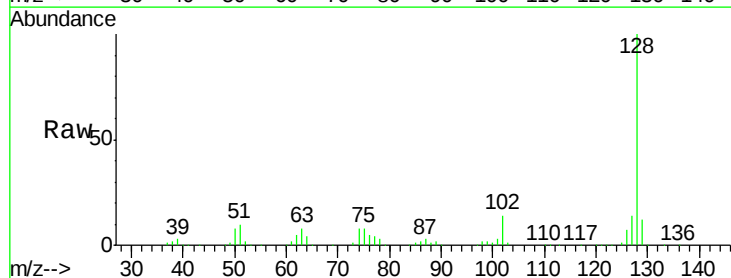
Instrument :
 BNA_G
 ClientSampleId :
 SB-12DDL

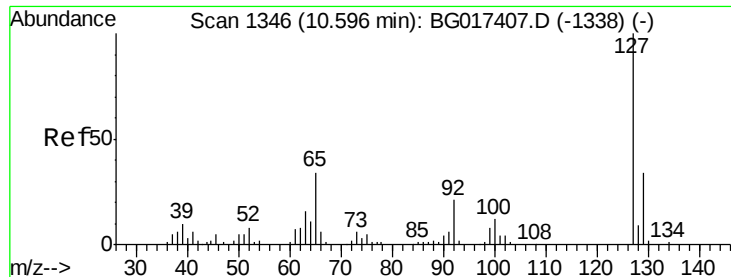
Tgt Ion: 82 Resp: 4050
 Ion Ratio Lower Upper
 82 100
 128 34.3 32.2 48.4
 54 82.5 47.4 71.2#



#31
 Naphthalene
 Concen: 73.34 ng
 RT: 10.45 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: BG017569.D
 Acq: 9 Jun 2015 10:42

Tgt Ion: 128 Resp: 335213
 Ion Ratio Lower Upper
 128 100
 129 11.6 9.2 13.8
 127 13.5 10.9 16.3

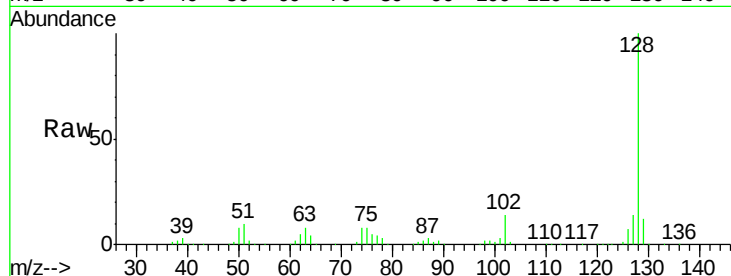




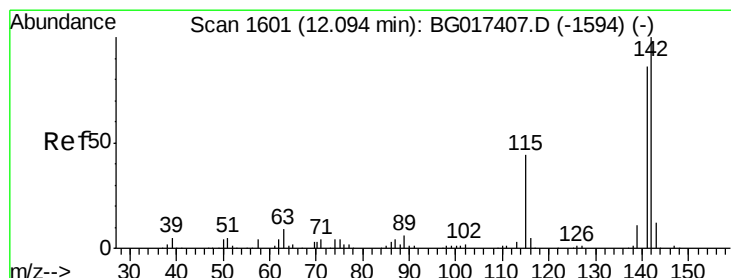
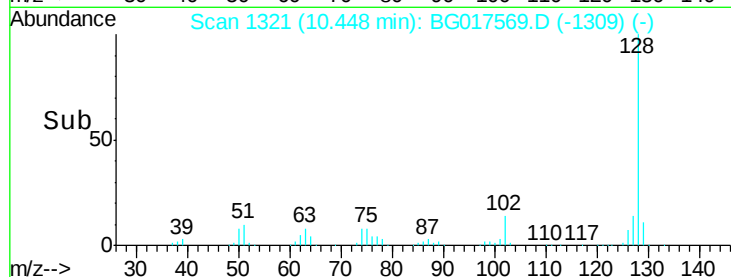
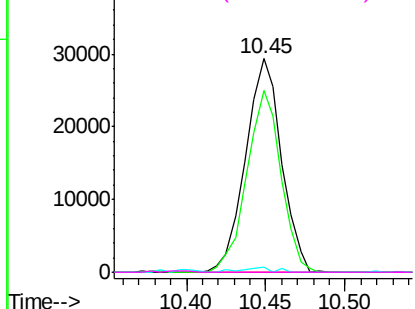
#33
4-Chloroaniline
Concen: 22.76 ng
RT: 10.45 min Scan# 1321
Delta R.T. -0.13 min
Lab File: BG017569.D
Acq: 9 Jun 2015 10:42

Instrument :
BNA_G
ClientSampleId :
SB-12DDL

Tgt Ion:127 Resp: 46158
Ion Ratio Lower Upper
127 100
129 85.4 27.1 40.7#
65 2.4 27.6 41.4#
92 0.0 16.7 25.1#

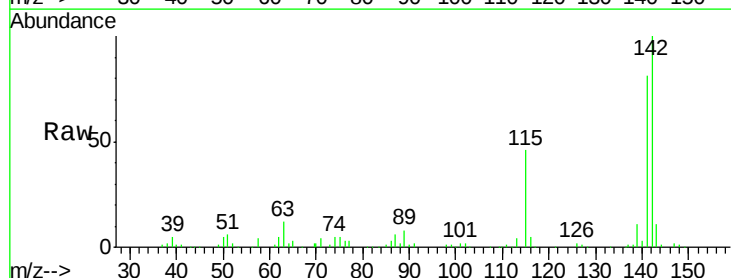


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BG
Ion 92.00 (91.70 to 92.70): BG

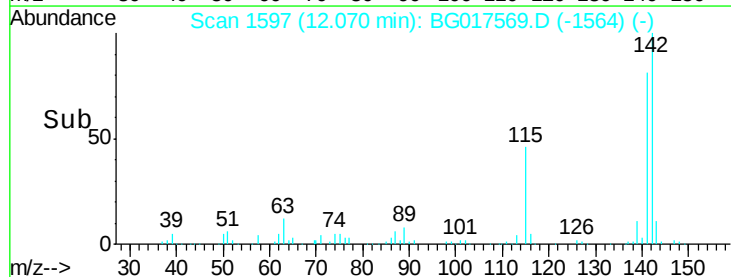
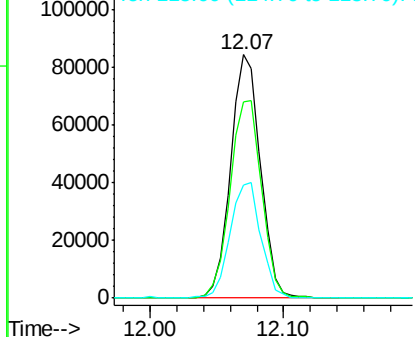


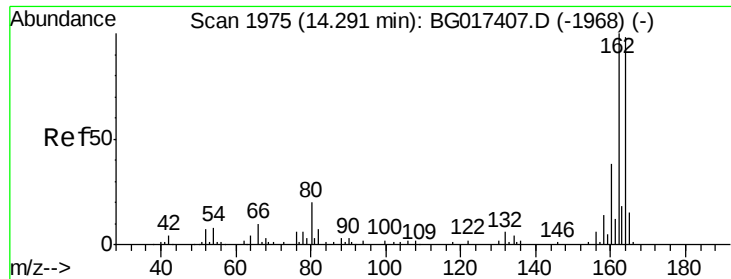
#37
2-Methylnaphthalene
Concen: 37.40 ng
RT: 12.07 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BG017569.D
Acq: 9 Jun 2015 10:42

Tgt Ion:142 Resp: 131415
Ion Ratio Lower Upper
142 100
141 80.7 68.6 102.8
115 46.2 35.3 52.9



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

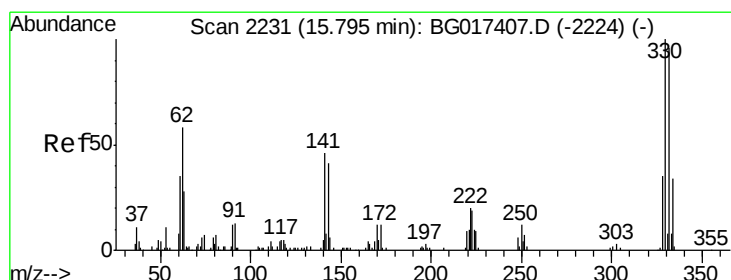
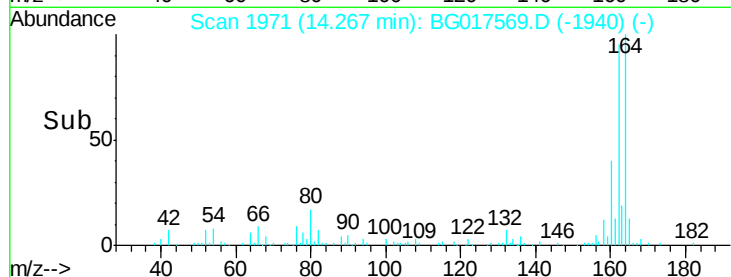
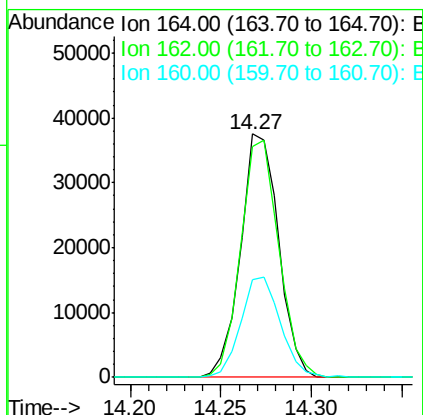
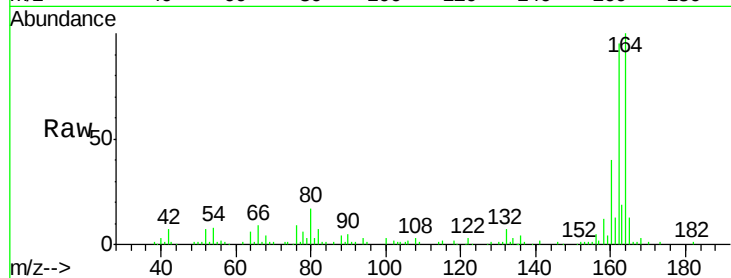




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.27 min Scan# 1971
Delta R.T. -0.02 min
Lab File: BG017569.D
Acq: 9 Jun 2015 10:42

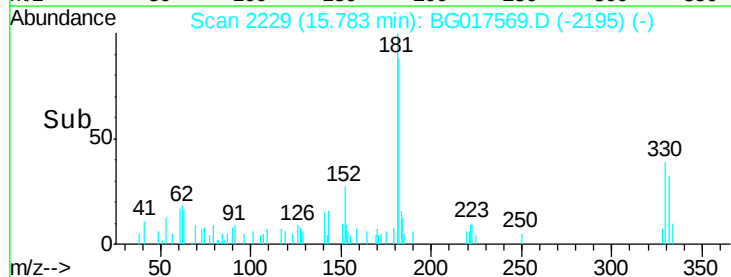
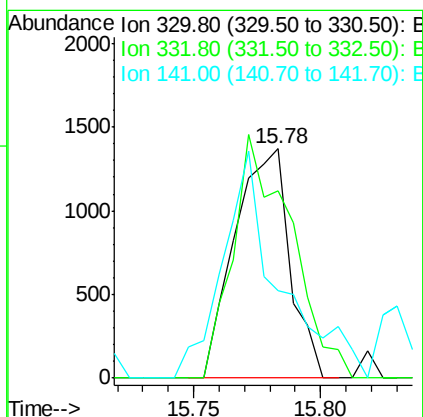
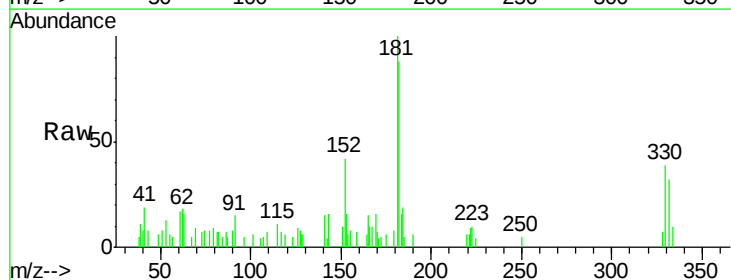
Instrument :
BNA_G
ClientSampleId :
SB-12DDL

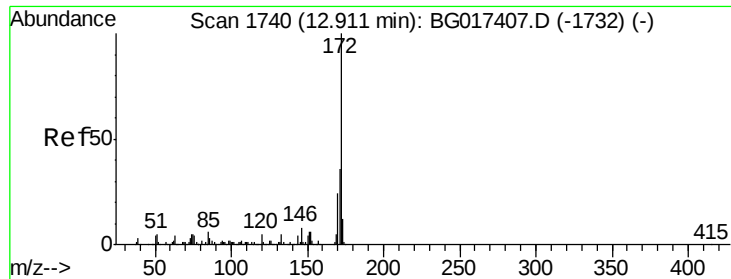
Tgt Ion:164 Resp: 54660
Ion Ratio Lower Upper
164 100
162 94.6 81.8 122.6
160 40.1 31.0 46.4



#41
2,4,6-Tribromophenol
Concen: 2.73 ng
RT: 15.78 min Scan# 2229
Delta R.T. -0.00 min
Lab File: BG017569.D
Acq: 9 Jun 2015 10:42

Tgt Ion:330 Resp: 2069
Ion Ratio Lower Upper
330 100
332 112.1 75.9 113.9
141 102.1 40.2 60.4#

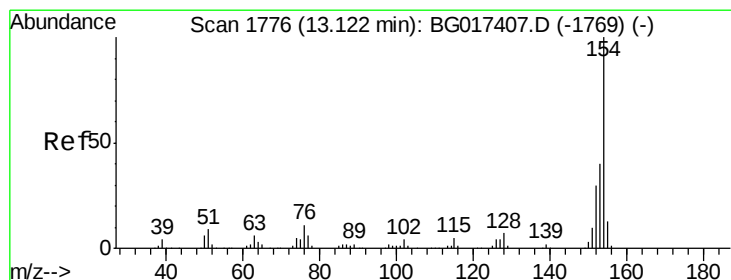
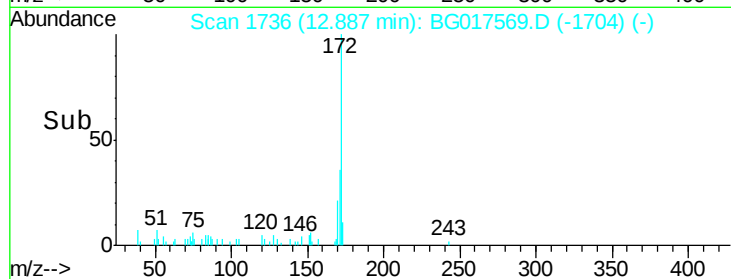
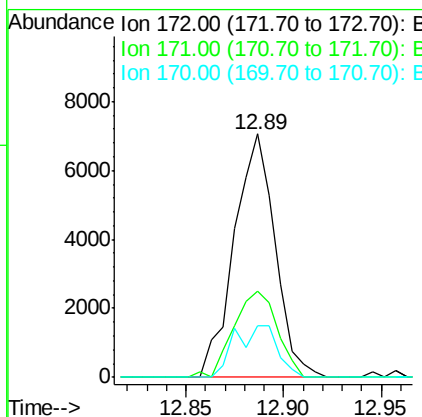
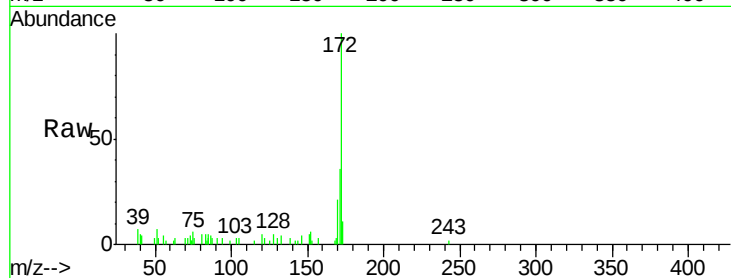




#44
2-Fluorobiphenyl
Concen: 2.83 ng
RT: 12.89 min Scan# 1736
Delta R.T. -0.01 min
Lab File: BG017569.D
Acq: 9 Jun 2015 10:42

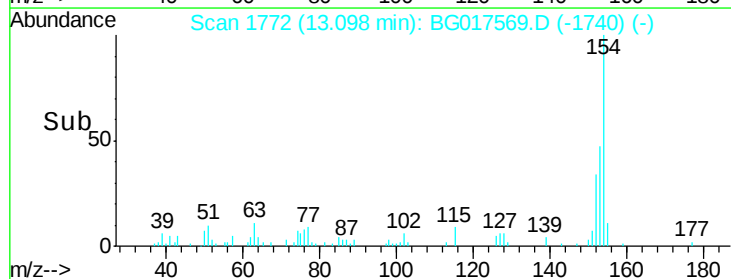
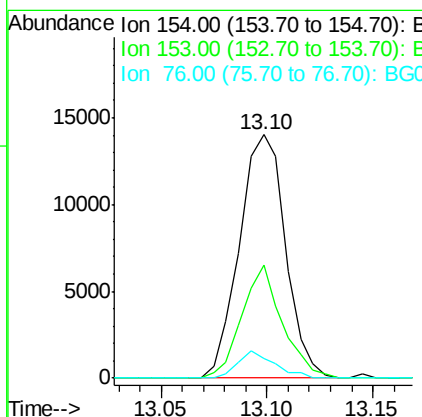
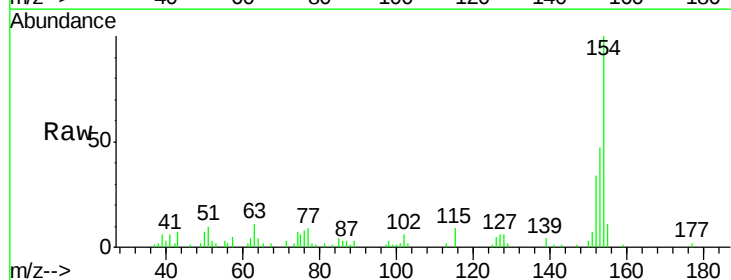
Instrument :
BNA_G
ClientSampleId :
SB-12DDL

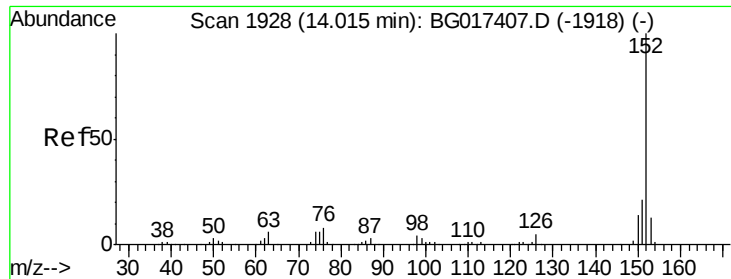
Tgt Ion:172 Resp: 10241
Ion Ratio Lower Upper
172 100
171 35.6 29.0 43.6
170 21.2 18.9 28.3



#45
1,1'-Biphenyl
Concen: 5.30 ng
RT: 13.10 min Scan# 1772
Delta R.T. -0.01 min
Lab File: BG017569.D
Acq: 9 Jun 2015 10:42

Tgt Ion:154 Resp: 21188
Ion Ratio Lower Upper
154 100
153 46.6 20.1 60.1
76 8.0 0.0 31.5





#48

Acenaphthylene

Concen: 10.92 ng

RT: 13.99 min Scan# 1924

Delta R.T. -0.01 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

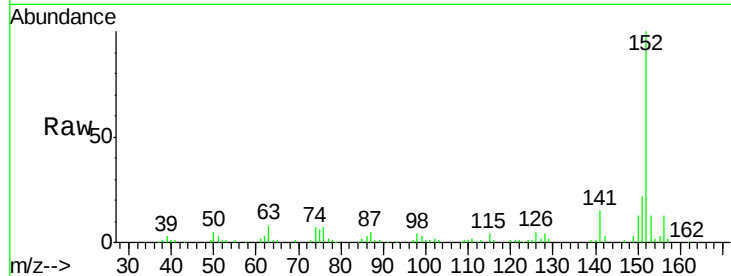
Tgt Ion:152 Resp: 64251

Ion Ratio Lower Upper

152 100

151 21.7 16.5 24.7

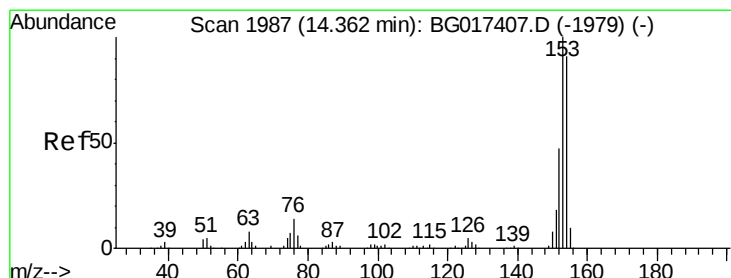
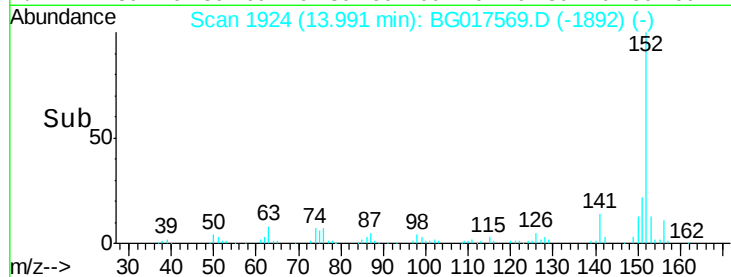
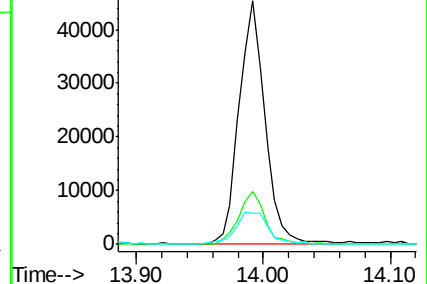
153 13.0 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 7.39 ng

RT: 14.33 min Scan# 1982

Delta R.T. -0.02 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

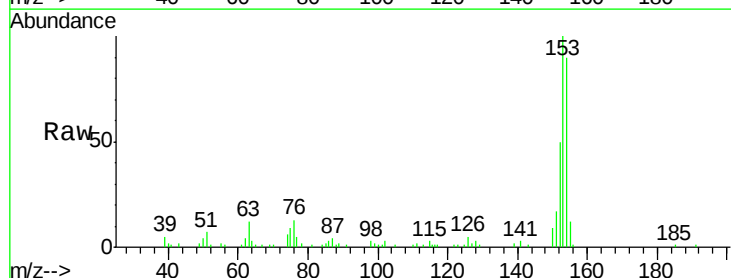
Tgt Ion:154 Resp: 25650

Ion Ratio Lower Upper

154 100

153 111.0 87.7 131.5

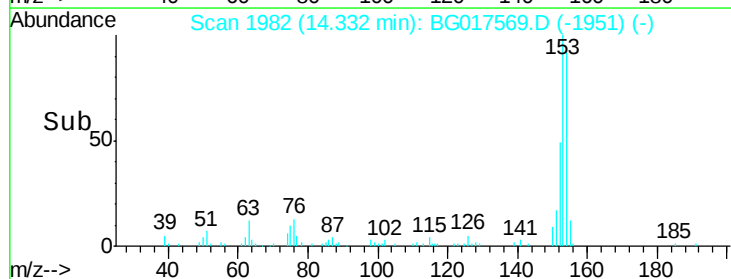
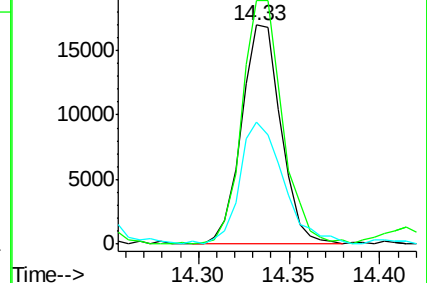
152 56.0 40.8 61.2

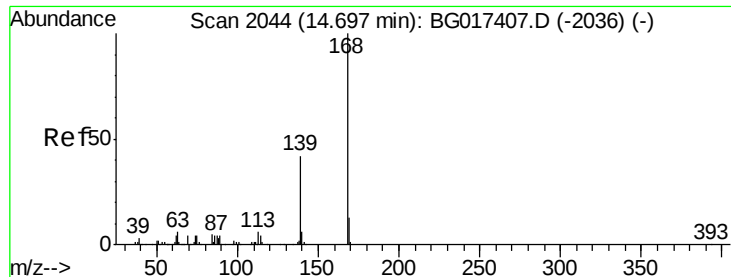


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 5.70 ng

RT: 14.67 min Scan# 2040

Delta R.T. -0.01 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

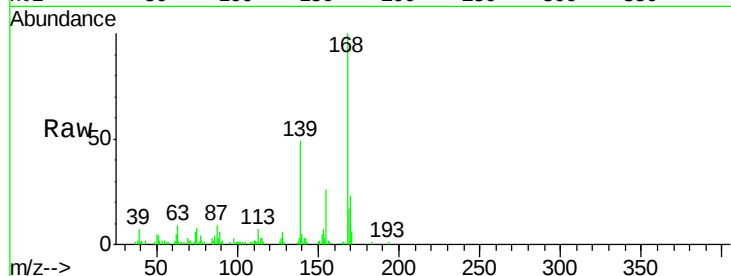
Tgt Ion:168 Resp: 29168

Ion Ratio Lower Upper

168 100

139 48.6 33.2 49.8

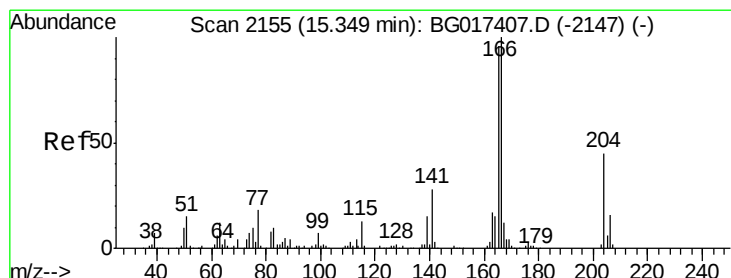
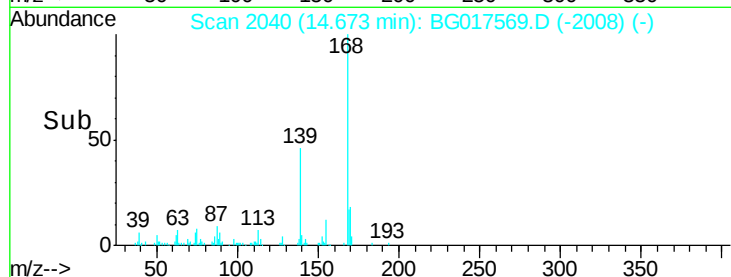
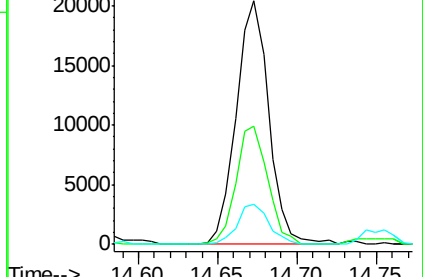
169 16.7 10.6 16.0#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 12.84 ng

RT: 15.33 min Scan# 2151

Delta R.T. -0.01 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

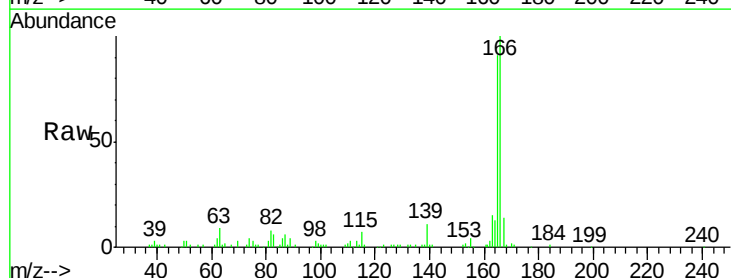
Tgt Ion:166 Resp: 59563

Ion Ratio Lower Upper

166 100

165 91.0 76.8 115.2

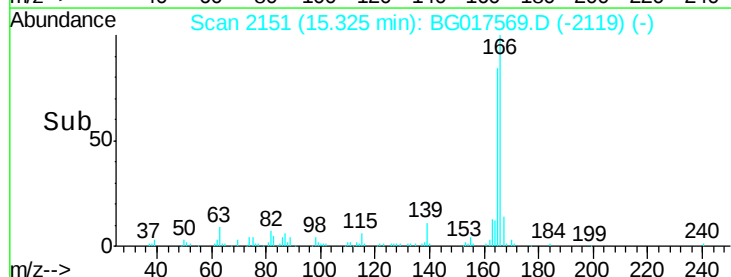
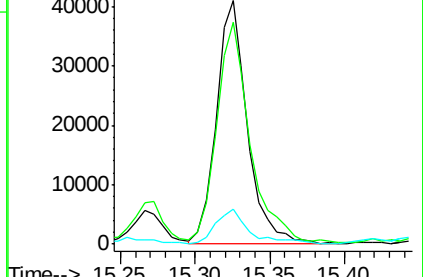
167 14.1 9.9 14.9

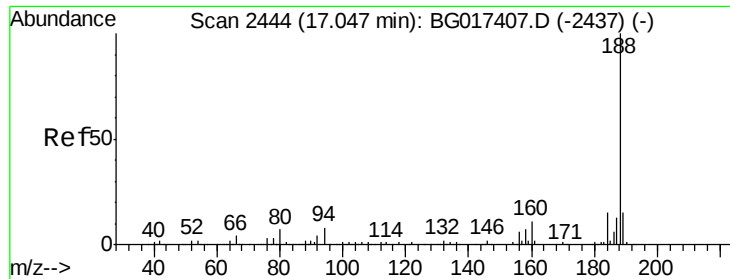


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.02 min Scan# 2440

Delta R.T. -0.02 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

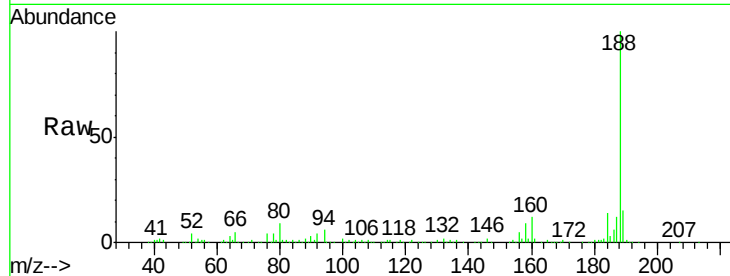
Tgt Ion:188 Resp: 111967

Ion Ratio Lower Upper

188 100

94 6.3 6.3 9.5

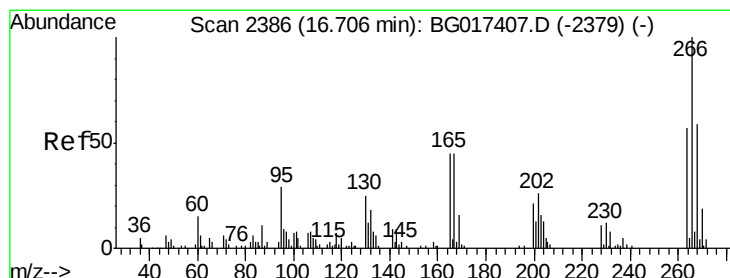
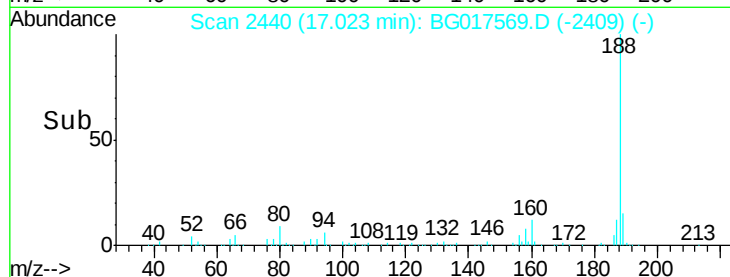
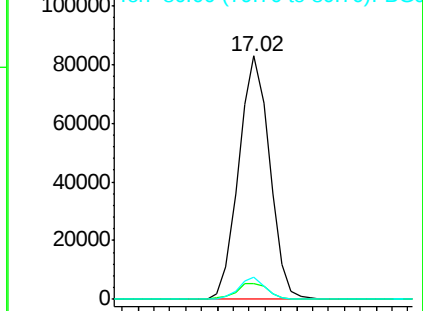
80 9.1 5.2 7.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#69

Pentachlorophenol

Concen: 5.56 ng

RT: 16.73 min Scan# 2390

Delta R.T. 0.03 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

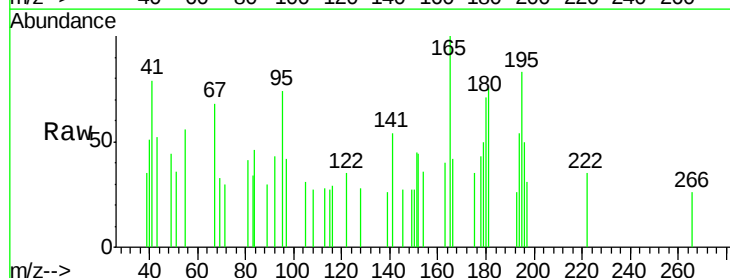
Tgt Ion:266 Resp: 54

Ion Ratio Lower Upper

266 100

268 0.0 47.0 70.6#

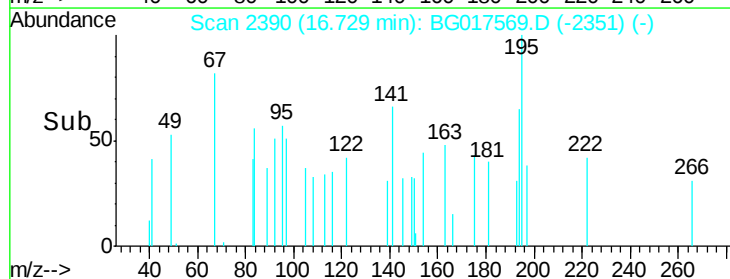
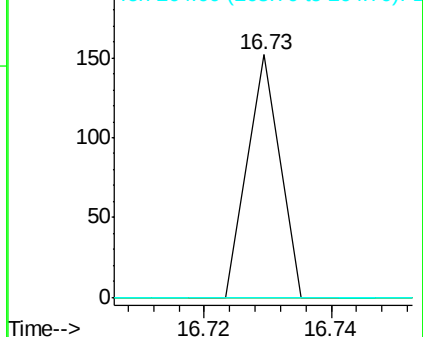
264 0.0 45.7 68.5#

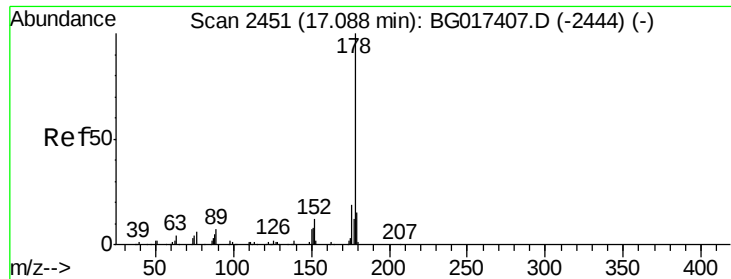


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#70

Phenanthrene

Concen: 49.13 ng

RT: 17.06 min Scan# 2447

Delta R.T. -0.02 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

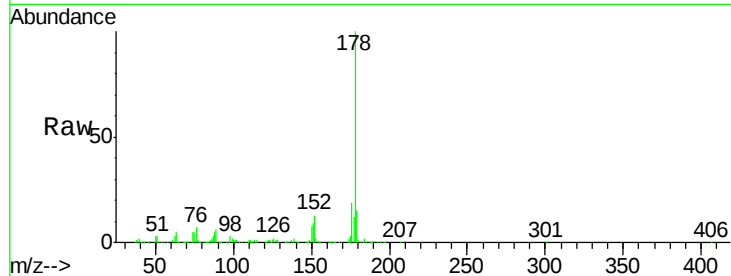
Tgt Ion:178 Resp: 306711

Ion Ratio Lower Upper

178 100

176 19.4 15.6 23.4

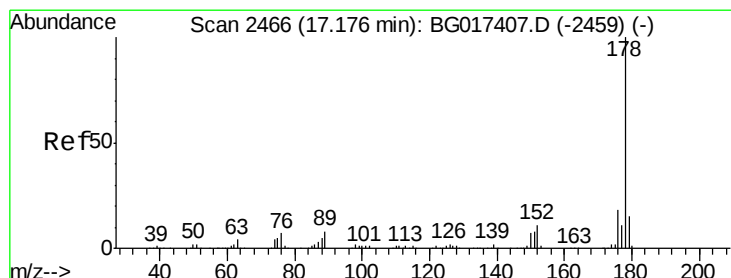
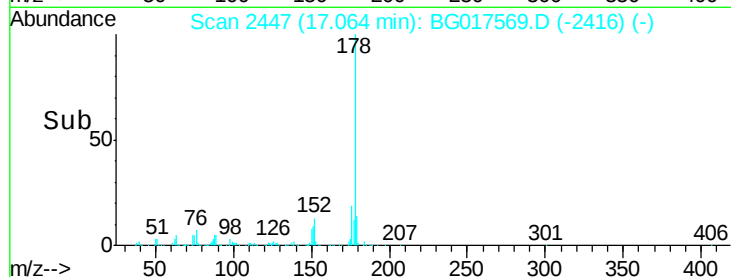
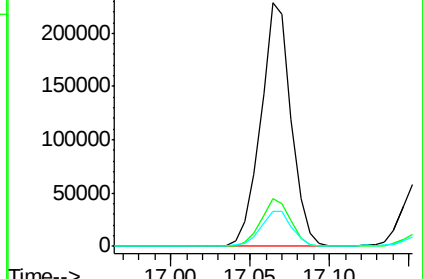
179 14.5 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 13.00 ng

RT: 17.16 min Scan# 2463

Delta R.T. -0.01 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

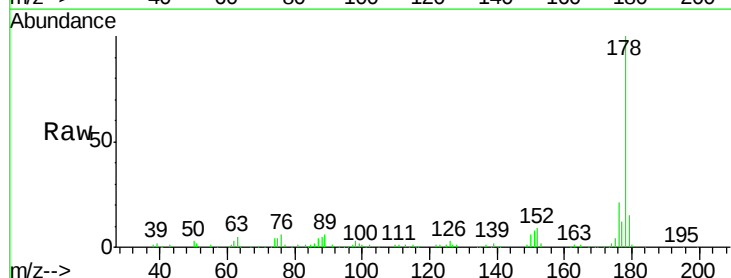
Tgt Ion:178 Resp: 81093

Ion Ratio Lower Upper

178 100

176 20.6 14.2 21.2

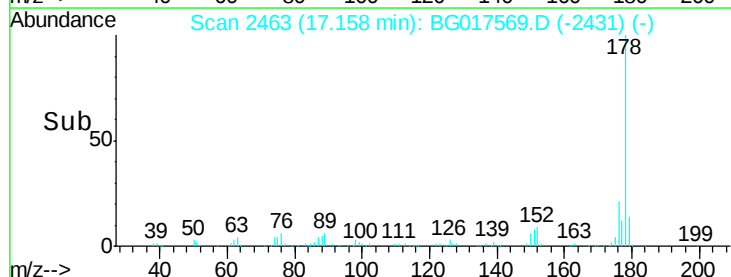
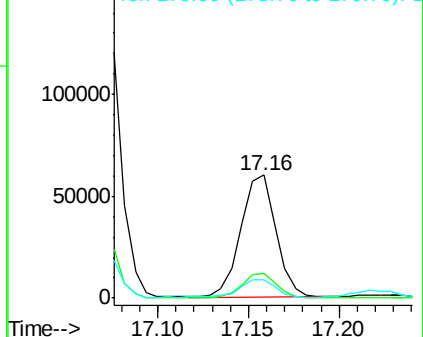
179 15.1 12.2 18.4

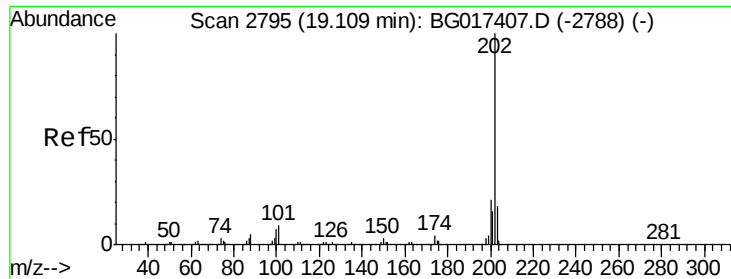


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 23.10 ng

RT: 19.09 min Scan# 2792

Delta R.T. -0.02 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

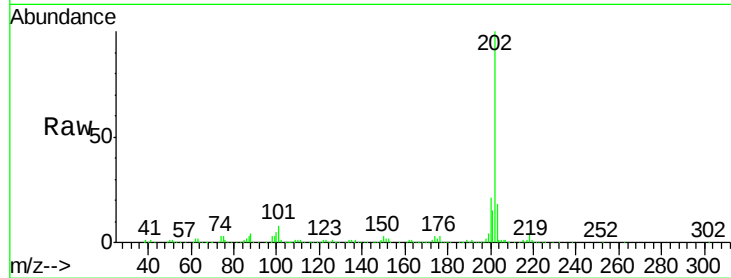
Tgt Ion:202 Resp: 188580

Ion Ratio Lower Upper

202 100

101 7.8 0.0 28.8

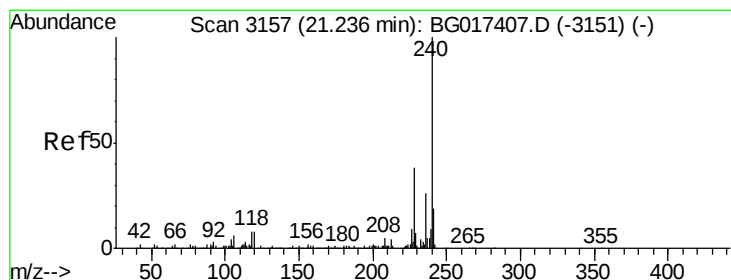
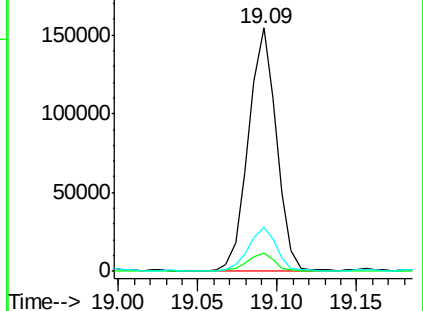
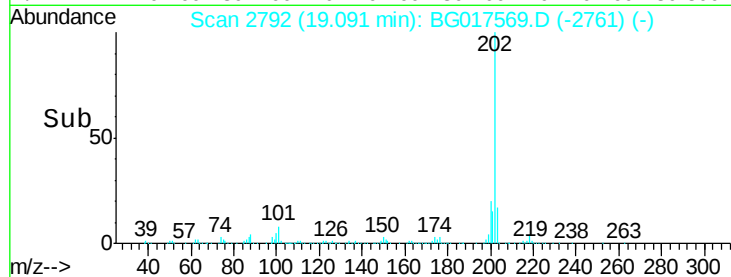
203 17.9 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.22 min Scan# 3154

Delta R.T. -0.02 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

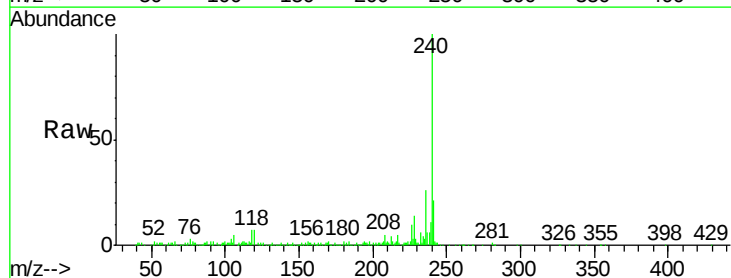
Tgt Ion:240 Resp: 126178

Ion Ratio Lower Upper

240 100

120 7.4 6.5 9.7

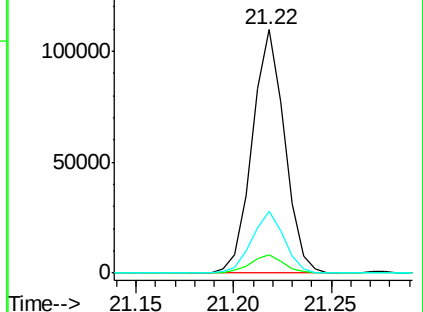
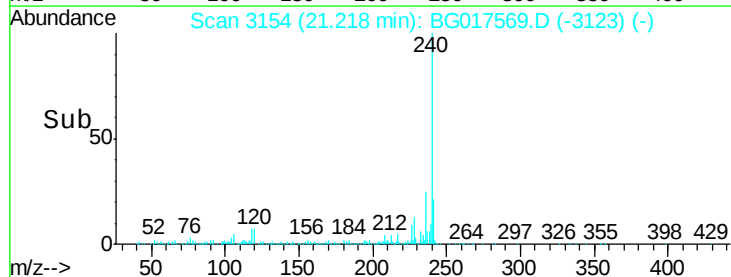
236 25.6 20.8 31.2

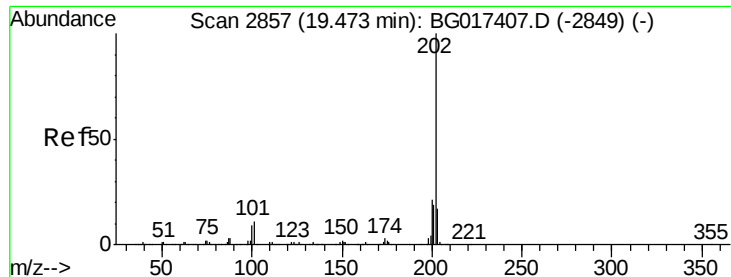


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

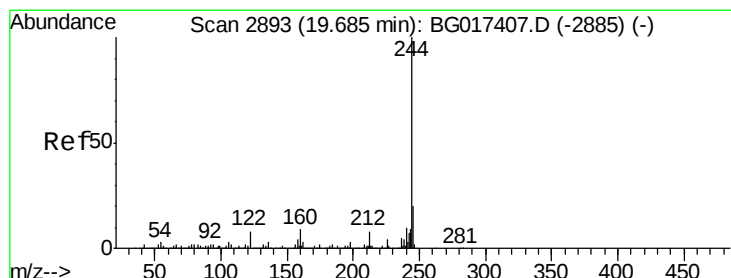
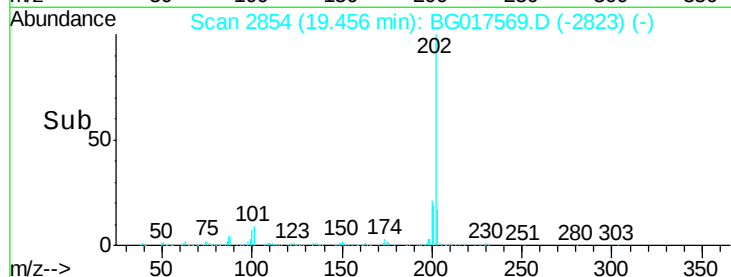
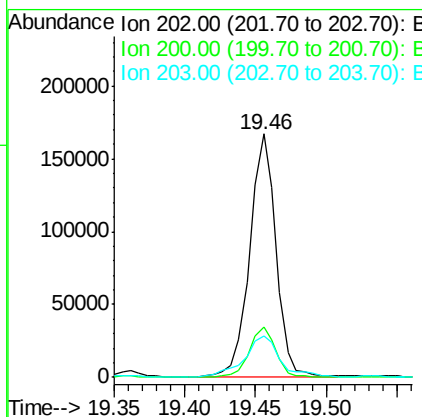
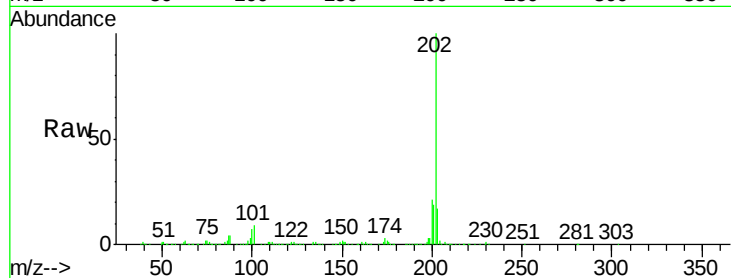




#77
 Pyrene
 Concen: 28.11 ng
 RT: 19.46 min Scan# 2854
 Delta R.T. -0.02 min
 Lab File: BG017569.D
 Acq: 9 Jun 2015 10:42

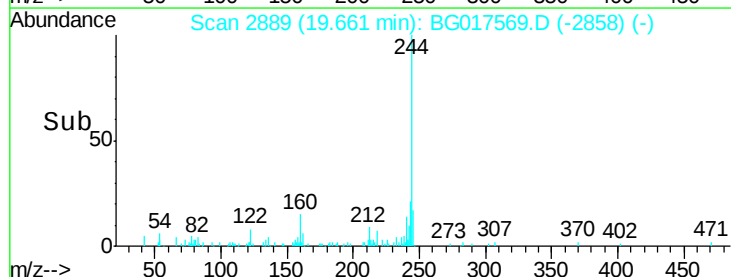
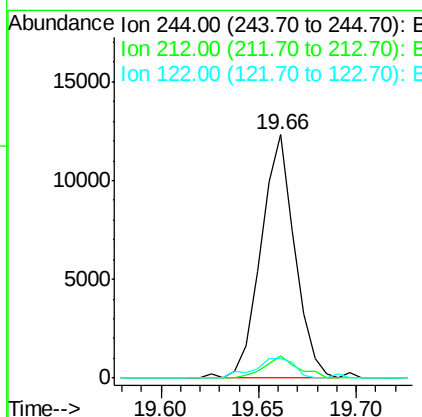
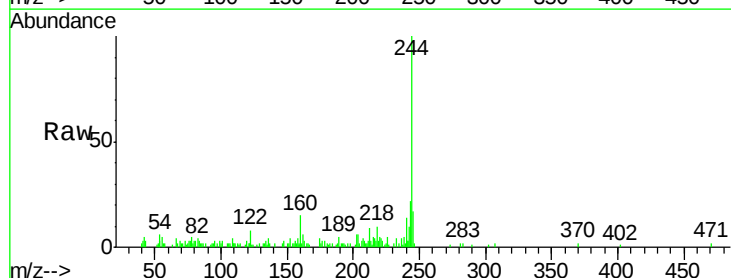
Instrument :
 BNA_G
 ClientSampleId :
 SB-12DDL

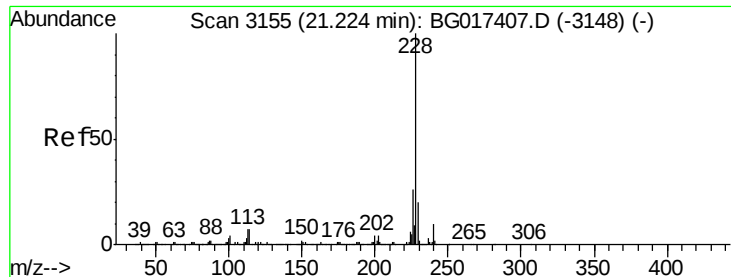
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	218518		
200	20.5		17.0	25.4
203	16.8		13.9	20.9



#78
 Terphenyl-d14
 Concen: 2.41 ng
 RT: 19.66 min Scan# 2889
 Delta R.T. -0.02 min
 Lab File: BG017569.D
 Acq: 9 Jun 2015 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	14727		
212	9.3		6.4	9.6
122	8.1		6.6	10.0





#80

Benzo(a)anthracene

Concen: 12.19 ng

RT: 21.20 min Scan# 3151

Delta R.T. -0.02 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

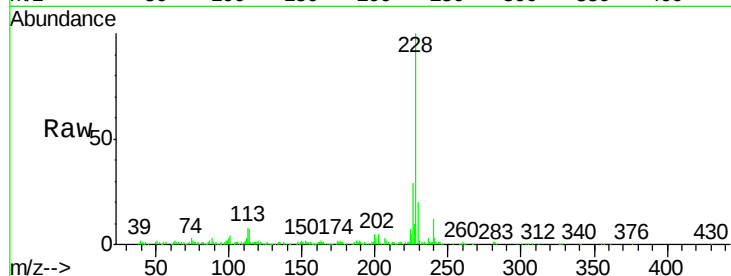
Tgt Ion:228 Resp: 94562

Ion Ratio Lower Upper

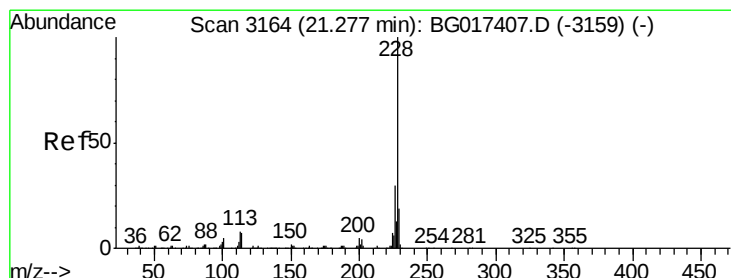
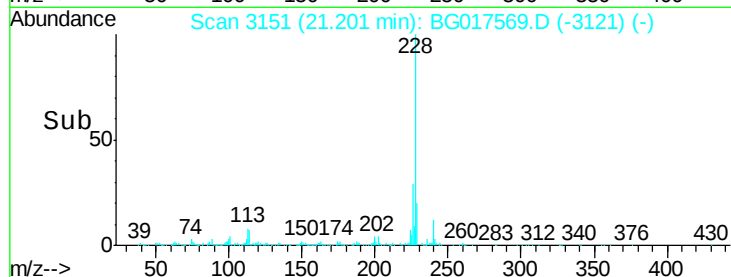
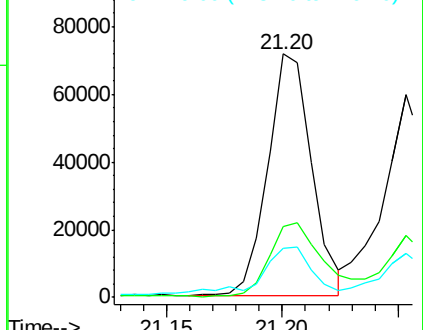
228 100

226 29.2 21.0 31.6

229 20.1 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 11.30 ng

RT: 21.25 min Scan# 3160

Delta R.T. -0.02 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

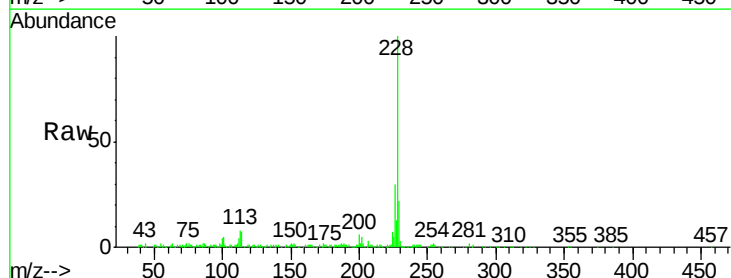
Tgt Ion:228 Resp: 79372

Ion Ratio Lower Upper

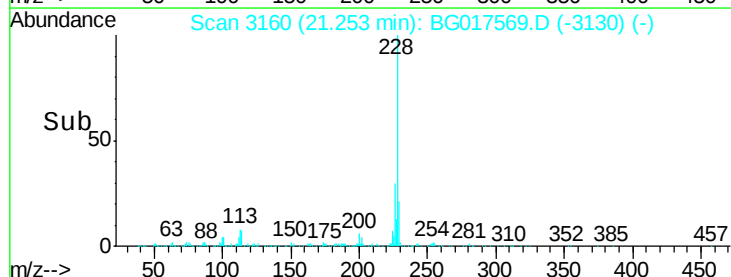
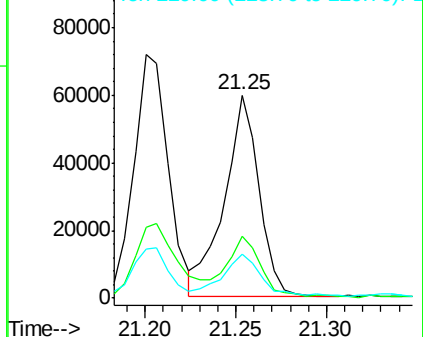
228 100

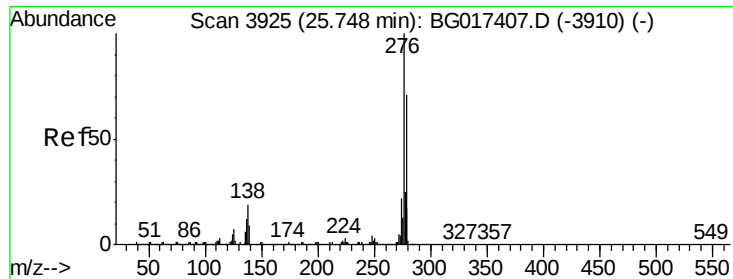
226 30.4 23.7 35.5

229 21.5 15.2 22.8



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.87 ng

RT: 25.70 min Scan# 3917

Delta R.T. -0.07 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

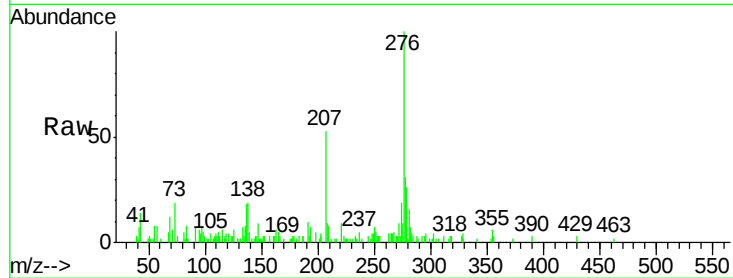
Tgt Ion:276 Resp: 25326

Ion Ratio Lower Upper

276 100

138 18.7 15.4 23.0

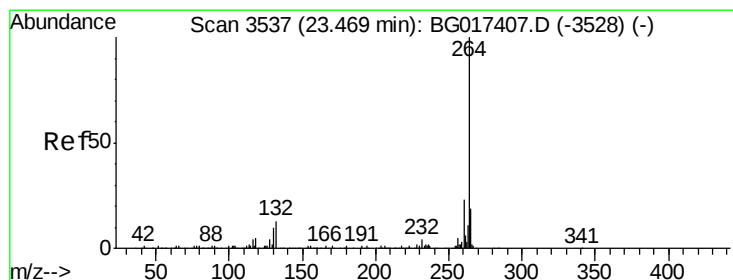
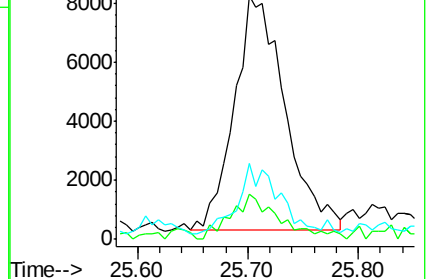
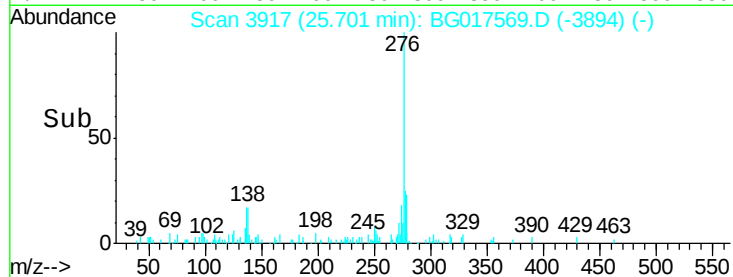
277 24.2 20.5 30.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.44 min Scan# 3533

Delta R.T. -0.03 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

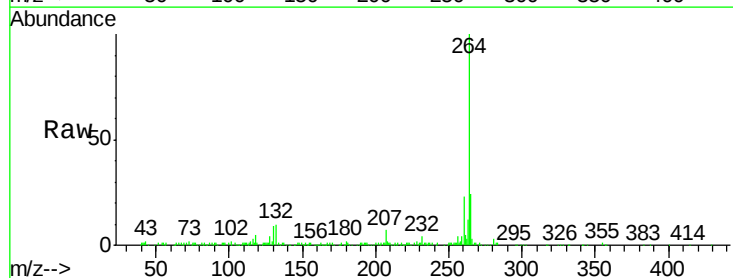
Tgt Ion:264 Resp: 127627

Ion Ratio Lower Upper

264 100

260 23.2 18.2 27.4

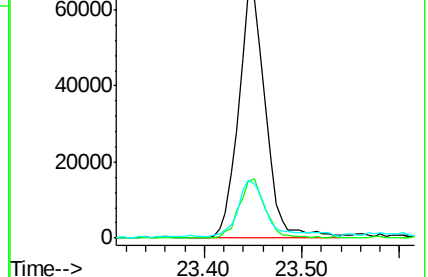
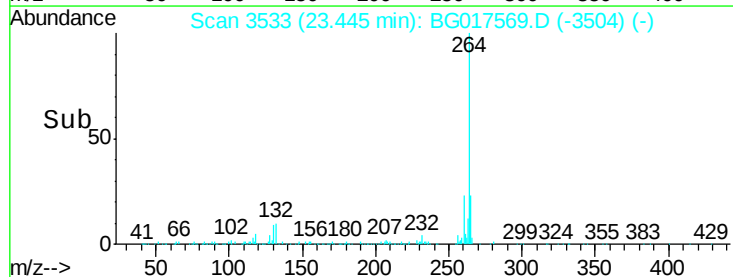
265 23.7 15.8 23.6#

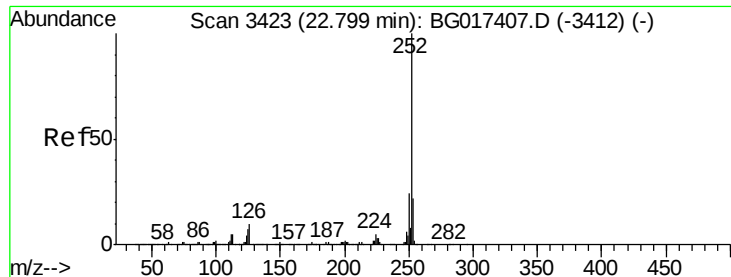


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 12.23 ng

RT: 22.78 min Scan# 3420

Delta R.T. -0.02 min

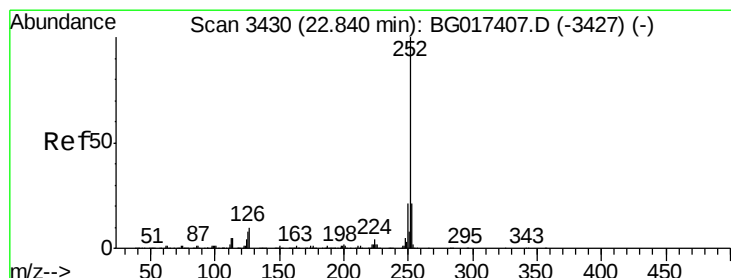
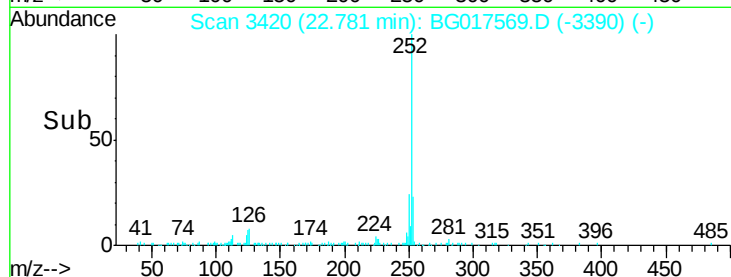
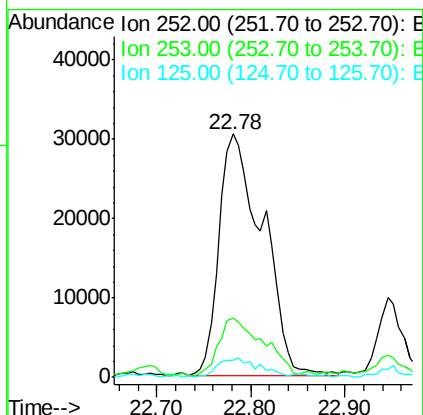
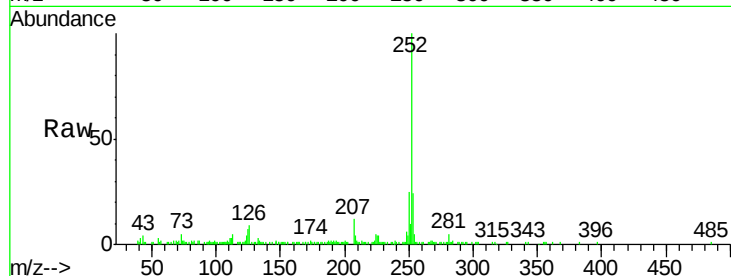
Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :
BNA_G
ClientSampleId :
SB-12DDL

Tgt Ion:252 Resp: 98915

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.4	26.2
125	7.2	5.8	8.8



#88

Benzo(k)fluoranthene

Concen: 12.78 ng

RT: 22.78 min Scan# 3420

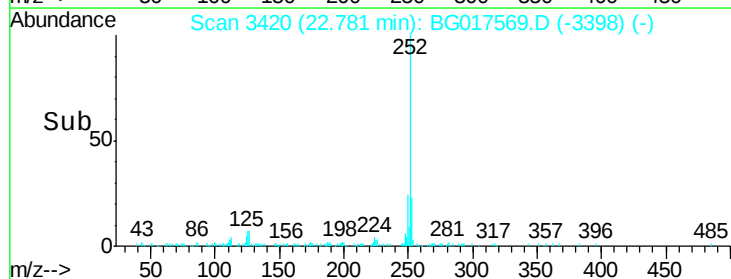
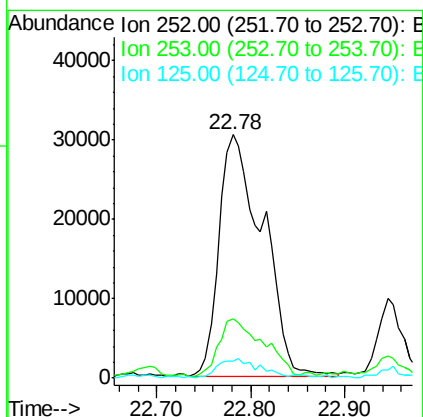
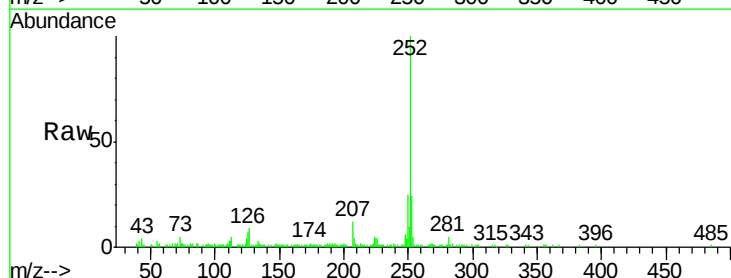
Delta R.T. -0.07 min

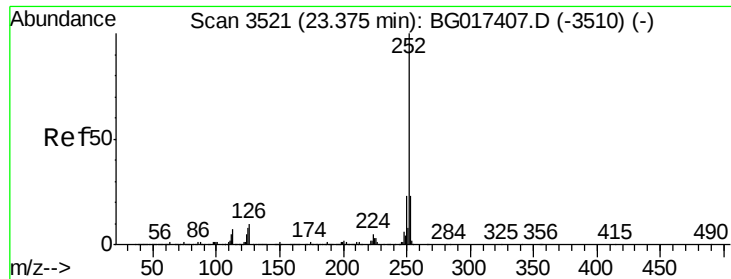
Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Tgt Ion:252 Resp: 98915

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.7	26.5
125	7.2	6.5	9.7





#89

Benzo(a)pyrene

Concen: 9.85 ng

RT: 23.35 min Scan# 3517

Delta R.T. -0.03 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

Instrument :

BNA_G

ClientSampleId :

SB-12DDL

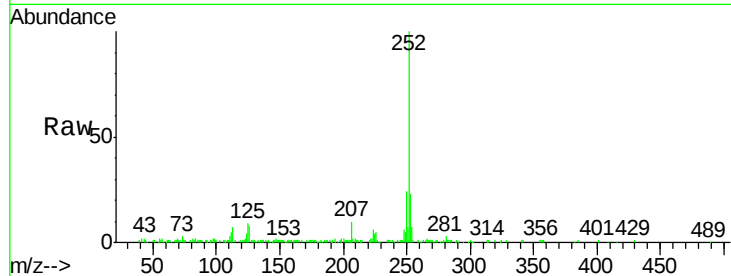
Tgt Ion:252 Resp: 73060

Ion Ratio Lower Upper

252 100

253 22.8 18.1 27.1

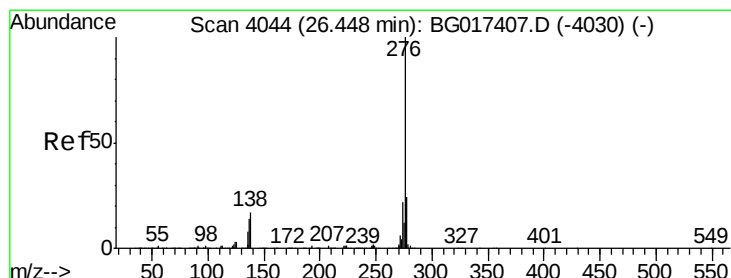
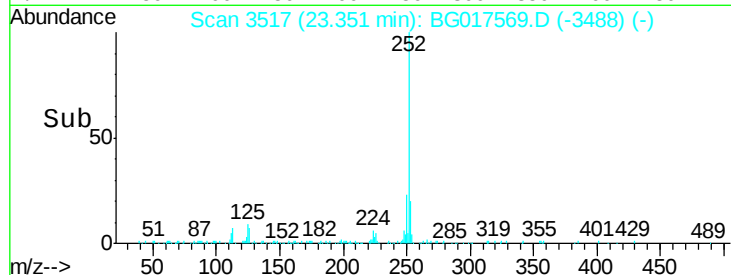
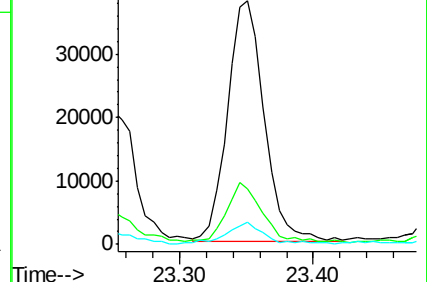
125 9.3 6.5 9.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 3.69 ng

RT: 26.41 min Scan# 4037

Delta R.T. -0.07 min

Lab File: BG017569.D

Acq: 9 Jun 2015 10:42

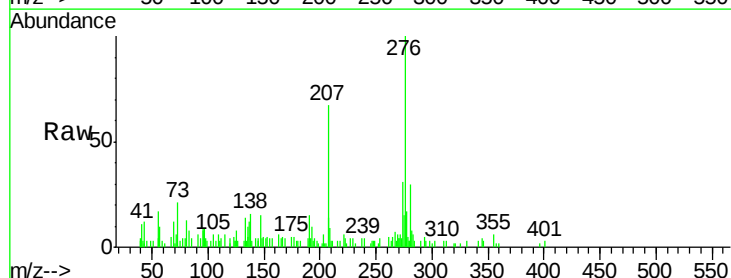
Tgt Ion:276 Resp: 27101

Ion Ratio Lower Upper

276 100

277 16.8 19.2 28.8#

138 15.6 13.5 20.3



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

