

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
 Data File : BG017272.D
 Acq On : 23 May 2015 8:31
 Operator : TP/IZ
 Sample : G2359-02 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-28S

Quant Time: May 25 08:17:39 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 25 08:11:45 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.68	152	32107	20.00	ng	0.00
21) Naphthalene-d8	10.47	136	135855	20.00	ng	0.00
38) Acenaphthene-d10	14.33	164	82928	20.00	ng	0.00
63) Phenanthrene-d10	17.08	188	171530	20.00	ng	0.00
75) Chrysene-d12	21.27	240	194007	20.00	ng	0.00
86) Perylene-d12	23.52	264	193534	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.28	112	100236	55.39	ng	0.00
7) Phenol-d6	6.89	99	138287	54.45	ng	0.00
23) Nitrobenzene-d5	8.84	82	92840	31.90	ng	0.00
41) 2,4,6-Tribromophenol	15.83	330	46335	46.22	ng	0.00
44) 2-Fluorobiphenyl	12.95	172	180504	31.94	ng	0.00
78) Terphenyl-d14	19.71	244	253902	27.27	ng	0.00

Target Compounds

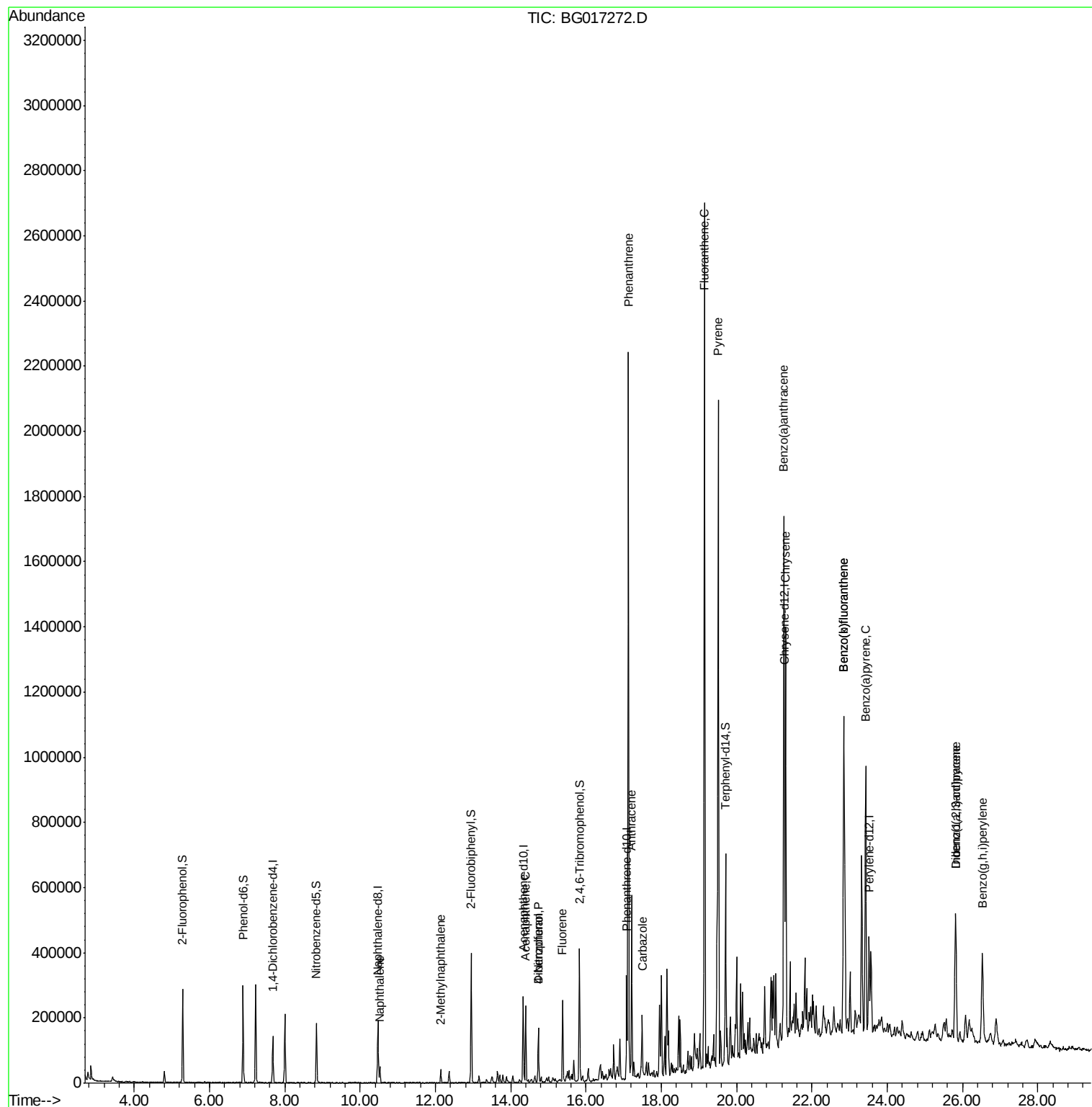
						Qvalue
9) Benzaldehyde	6.84	77	188	Below Cal	#	6
31) Naphthalene	10.53	128	34698	5.22 ng	#	96
37) 2-Methylnaphthalene	12.14	142	17617	3.34 ng	#	90
51) Acenaphthene	14.40	154	75409	15.76 ng		99
54) Dibenzofuran	14.73	168	80614	11.33 ng		98
55) 4-Nitrophenol	14.73	139	34703	27.03 ng	#	1
57) Fluorene	15.38	166	97472	15.48 ng		98
70) Phenanthrene	17.13	178	1178189	133.20 ng		96
71) Anthracene	17.21	178	311380	34.74 ng		98
72) Carbazole	17.49	167	105289	12.78 ng		98
74) Fluoranthene	19.15	202	1462794	137.71 ng		92
77) Pyrene	19.51	202	1218946	102.41 ng		97
80) Benzo(a)anthracene	21.25	228	710966	63.95 ng		97
82) Chrysene	21.31	228	604364	58.36 ng		99
85) Indeno(1,2,3-cd)pyrene	25.82	276	362082	29.22 ng		98
87) Benzo(b)fluoranthene	22.85	252	1033629	91.62 ng	#	96
88) Benzo(k)fluoranthene	22.85	252	1033629	96.50 ng		97
89) Benzo(a)pyrene	23.43	252	564300	54.47 ng		100
90) Dibenzo(a,h)anthracene	25.83	278	98701	9.28 ng	#	88
91) Benzo(g,h,i)perylene	26.53	276	334360	33.40 ng	#	93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.68 min Scan# 850

Delta R.T. 0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

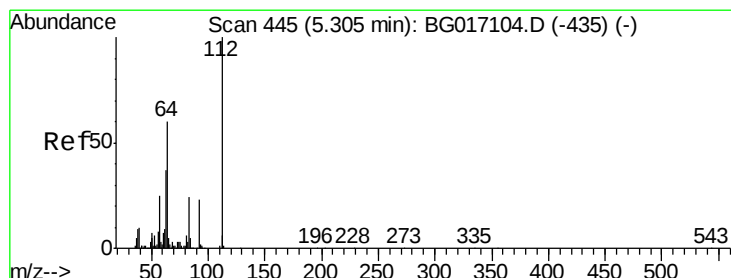
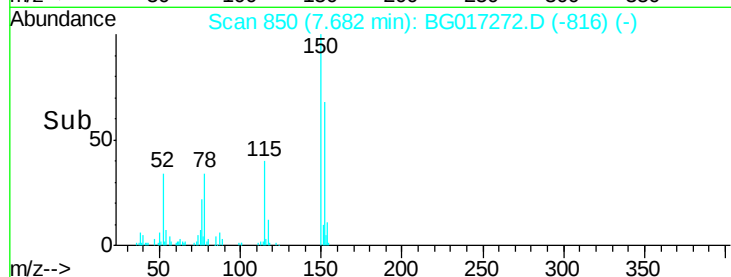
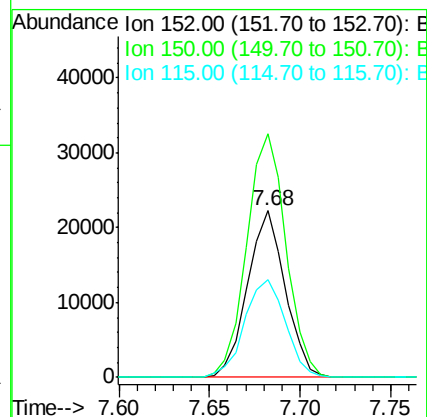
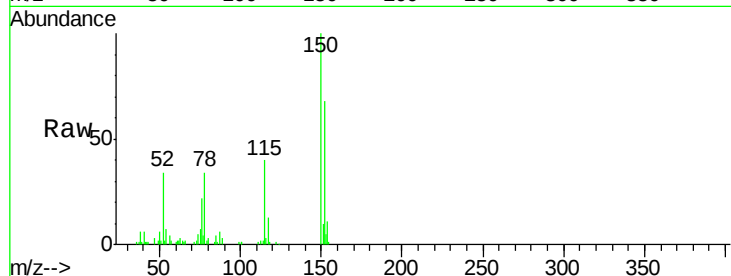
Tgt Ion:152 Resp: 32107

Ion Ratio Lower Upper

152 100

150 146.5 120.8 181.2

115 58.8 49.4 74.2



#5

2-Fluorophenol

Concen: 55.39 ng

RT: 5.28 min Scan# 442

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

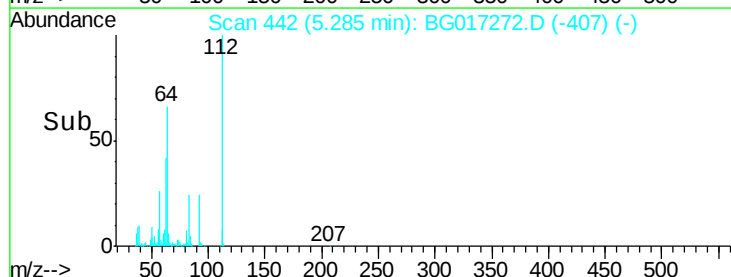
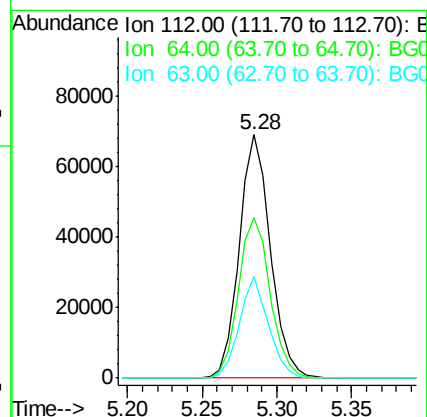
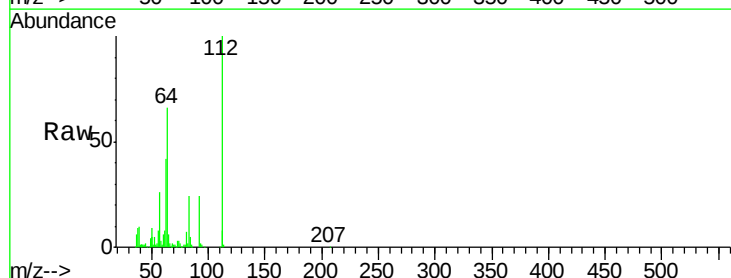
Tgt Ion:112 Resp: 100236

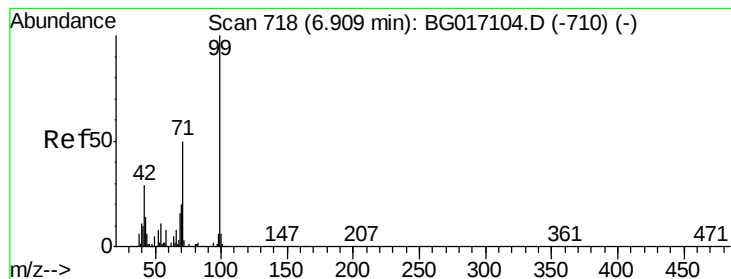
Ion Ratio Lower Upper

112 100

64 66.0 48.1 72.1

63 41.8 29.8 44.8





#7

Phenol-d6

Concen: 54.45 ng

RT: 6.89 min Scan# 715

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

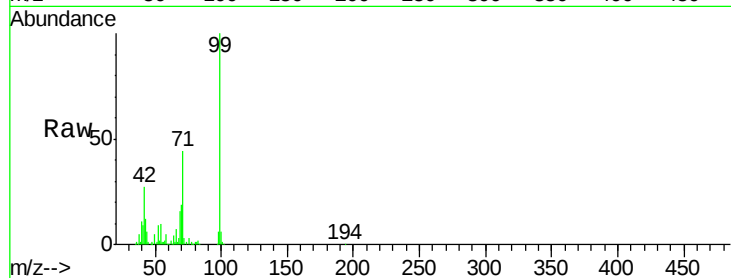
Tgt Ion: 99 Resp: 138287

Ion Ratio Lower Upper

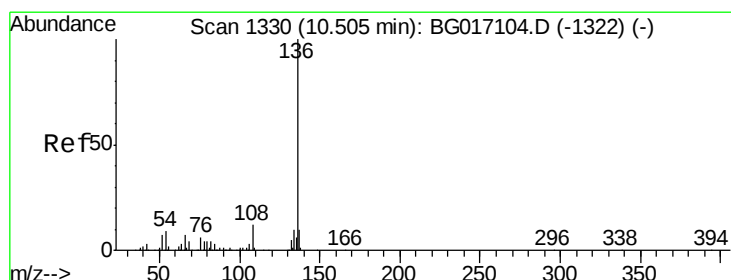
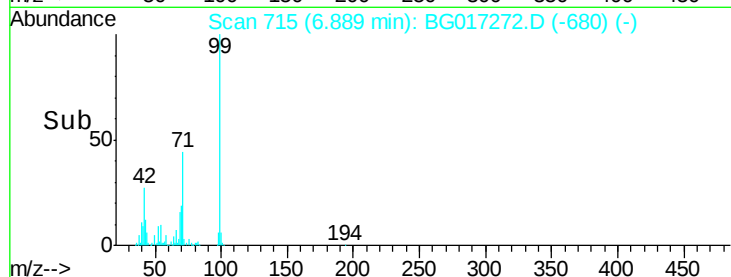
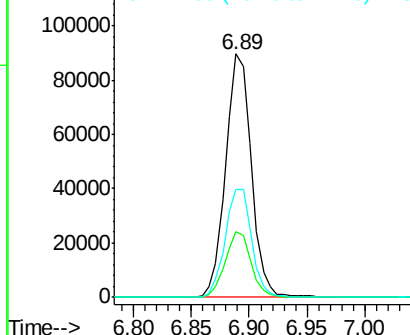
99 100

42 27.0 23.5 35.3

71 44.2 39.8 59.8



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: 10.47 min Scan# 1325

Delta R.T. 0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Tgt Ion: 136 Resp: 135855

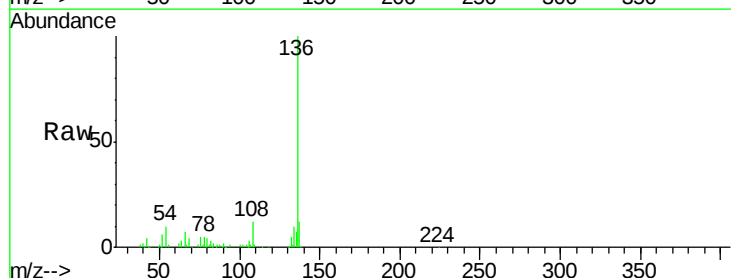
Ion Ratio Lower Upper

136 100

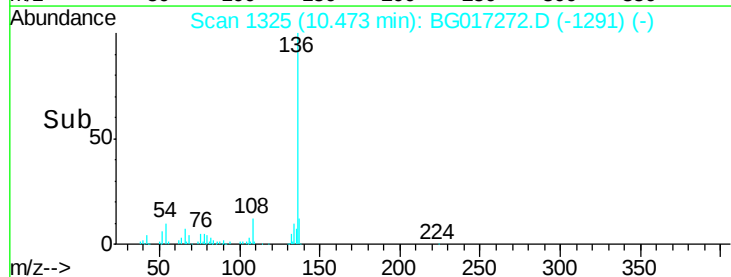
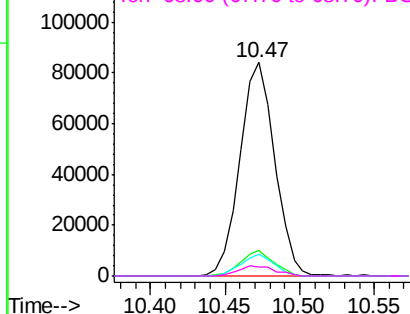
137 12.1 8.3 12.5

54 10.4 7.4 11.2

68 4.2 3.6 5.4



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

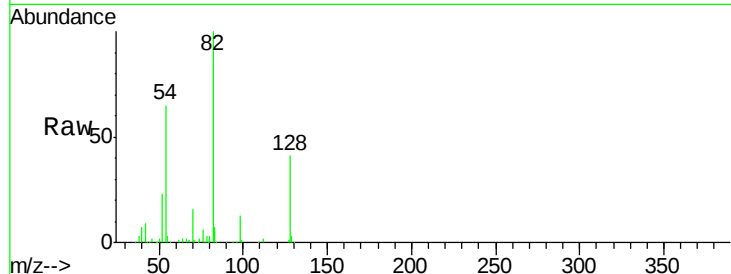




#23
 Nitrobenzene-d5
 Concen: 31.90 ng
 RT: 8.84 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: BG017272.D
 Acq: 23 May 2015 8:31

Instrument :
 BNA_G
 ClientSampleId :
 SB-28S

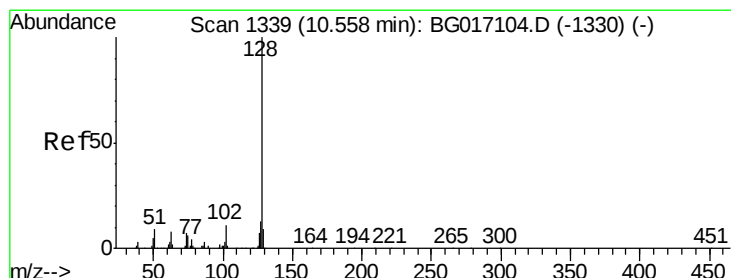
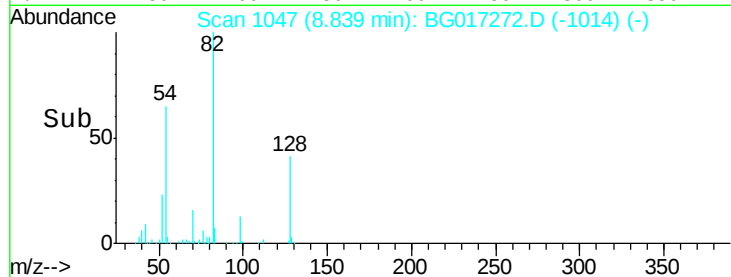
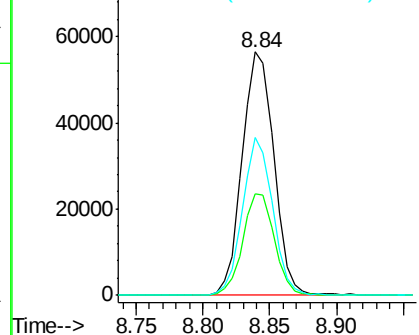
Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.5	32.6	49.0
54	64.7	49.6	74.4



Abundance Ion 82.00 (81.70 to 82.70): BG017104.D (-1044) (-)

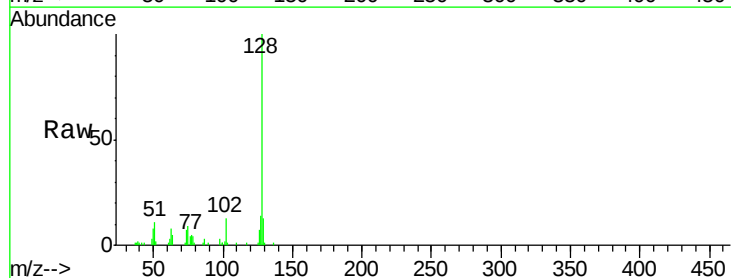
Ion 128.00 (127.70 to 128.70): BG017104.D (-1044) (-)

Ion 54.00 (53.70 to 54.70): BG017104.D (-1044) (-)



#31
 Naphthalene
 Concen: 5.22 ng
 RT: 10.53 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: BG017272.D
 Acq: 23 May 2015 8:31

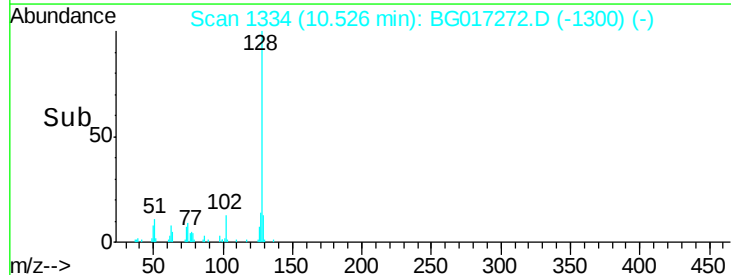
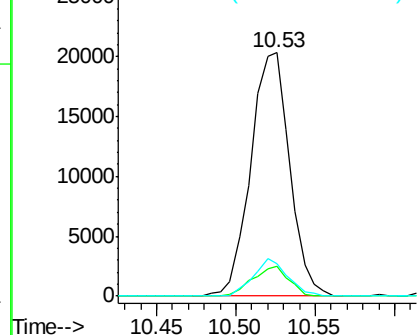
Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.5	7.6	11.4#
127	13.6	10.6	16.0

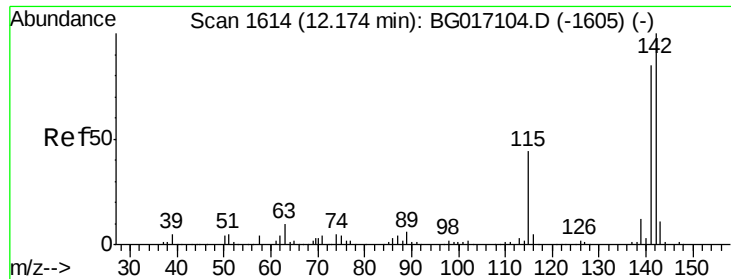


Abundance Ion 128.00 (127.70 to 128.70): BG017104.D (-1330) (-)

Ion 129.00 (128.70 to 129.70): BG017104.D (-1330) (-)

Ion 127.00 (126.70 to 127.70): BG017104.D (-1330) (-)

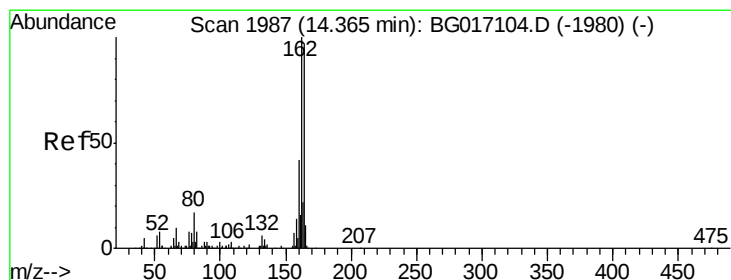
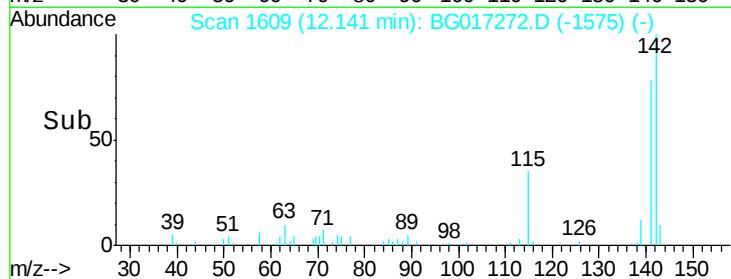
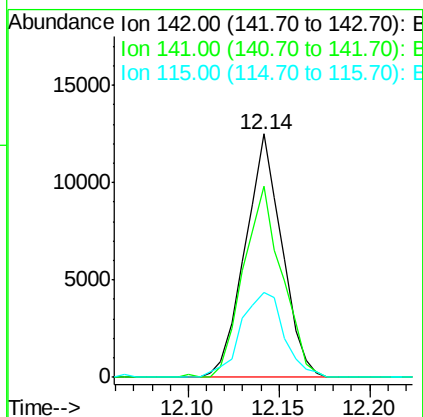
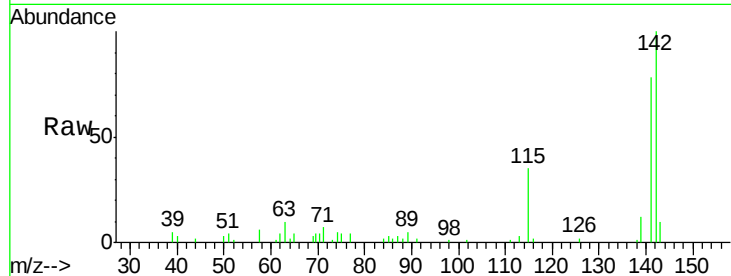




#37
 2-Methylnaphthalene
 Concen: 3.34 ng
 RT: 12.14 min Scan# 1609
 Delta R.T. 0.00 min
 Lab File: BG017272.D
 Acq: 23 May 2015 8:31

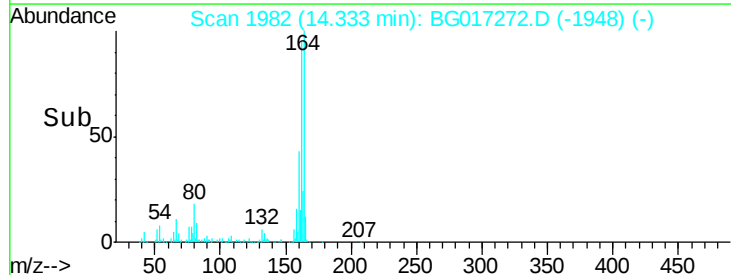
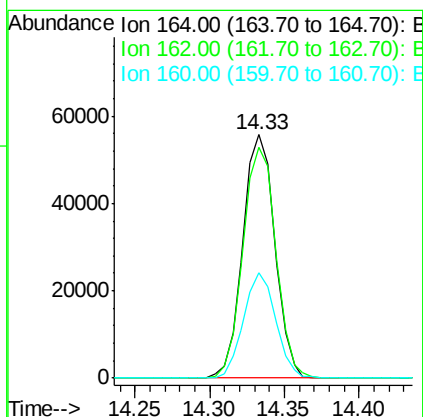
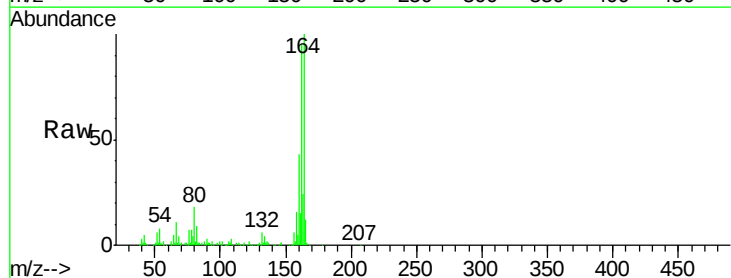
Instrument :
 BNA_G
 ClientSampleId :
 SB-28S

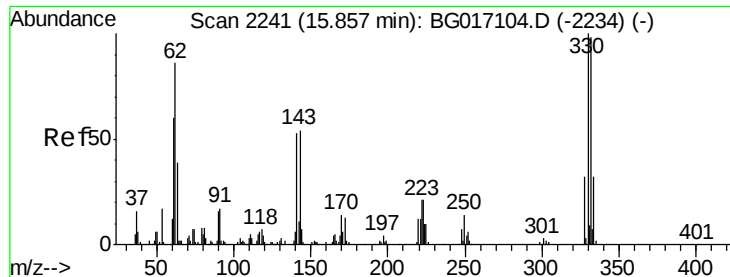
Tgt Ion:142 Resp: 17617
 Ion Ratio Lower Upper
 142 100
 141 78.4 68.2 102.2
 115 35.0 35.6 53.4#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.33 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: BG017272.D
 Acq: 23 May 2015 8:31

Tgt Ion:164 Resp: 82928
 Ion Ratio Lower Upper
 164 100
 162 94.9 82.1 123.1
 160 43.4 34.8 52.2

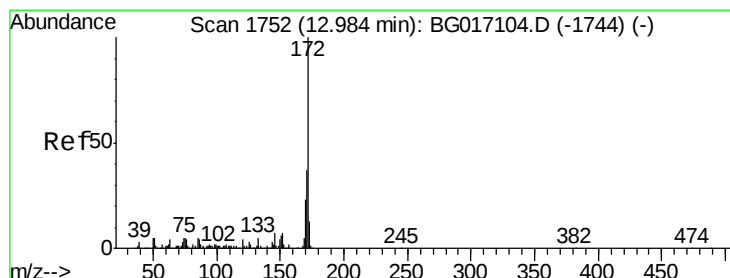
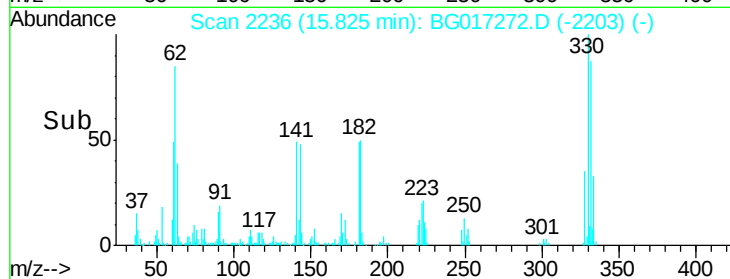
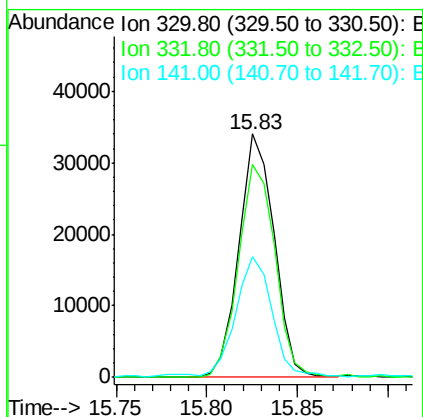
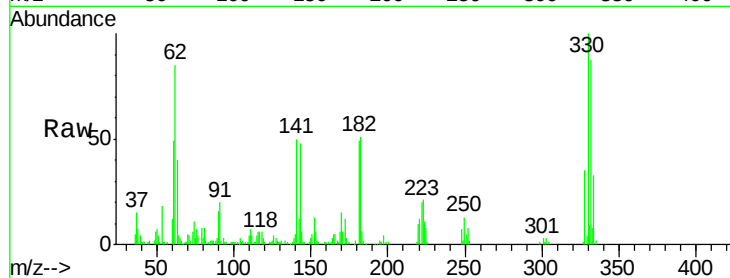




#41
 2,4,6-Tribromophenol
 Concen: 46.22 ng
 RT: 15.83 min Scan# 2236
 Delta R.T. -0.00 min
 Lab File: BG017272.D
 Acq: 23 May 2015 8:31

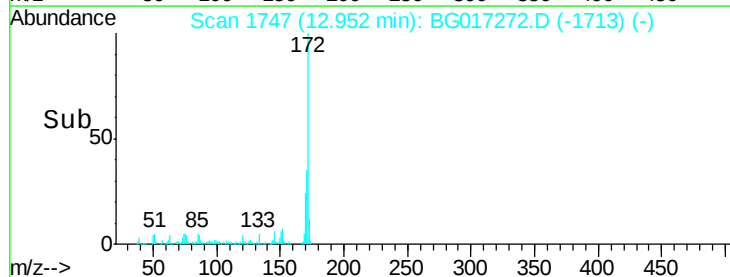
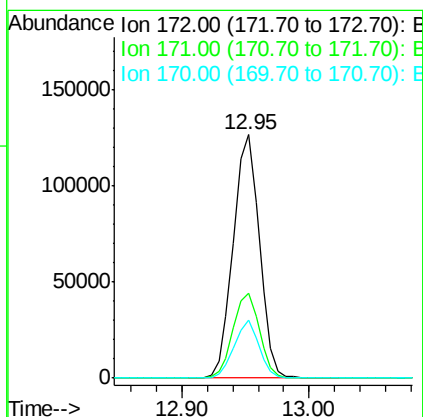
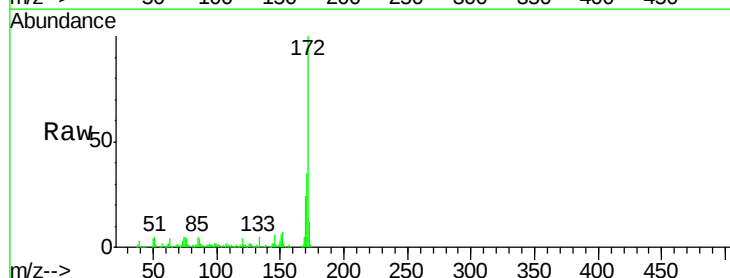
Instrument :
 BNA_G
 ClientSampleId :
 SB-28S

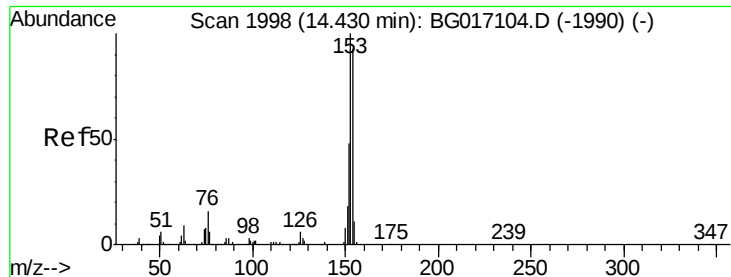
Tgt Ion:330 Resp: 46335
 Ion Ratio Lower Upper
 330 100
 332 91.1 76.9 115.3
 141 52.8 42.2 63.2



#44
 2-Fluorobiphenyl
 Concen: 31.94 ng
 RT: 12.95 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: BG017272.D
 Acq: 23 May 2015 8:31

Tgt Ion:172 Resp: 180504
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.7 44.5
 170 23.6 18.4 27.6





#51

Acenaphthene

Concen: 15.76 ng

RT: 14.40 min Scan# 1993

Delta R.T. 0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

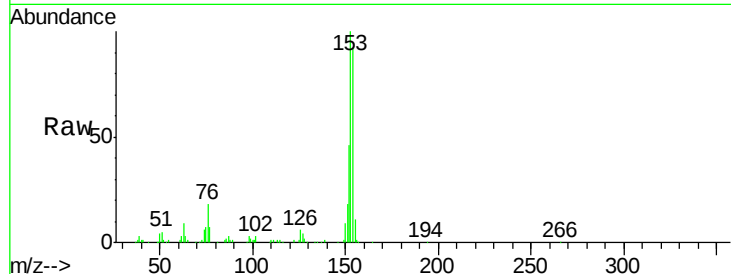
Tgt Ion:154 Resp: 75409

Ion Ratio Lower Upper

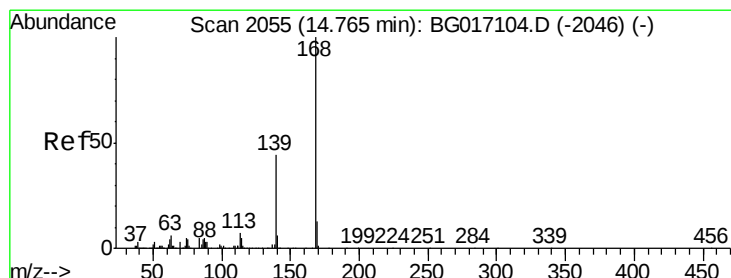
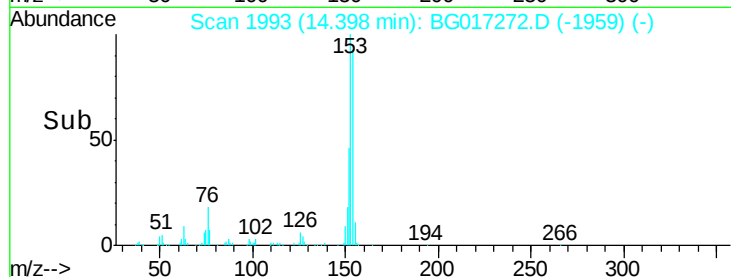
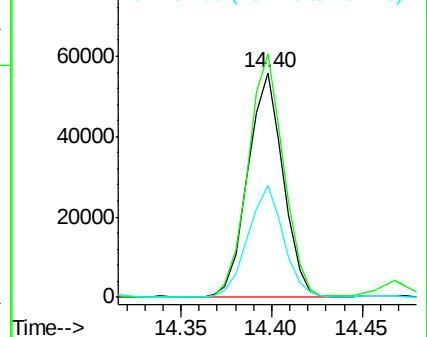
154 100

153 108.2 86.2 129.4

152 49.7 41.5 62.3



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

Dibenzofuran

Concen: 11.33 ng

RT: 14.73 min Scan# 2050

Delta R.T. 0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

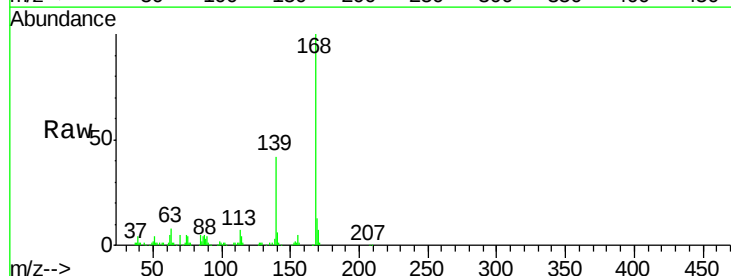
Tgt Ion:168 Resp: 80614

Ion Ratio Lower Upper

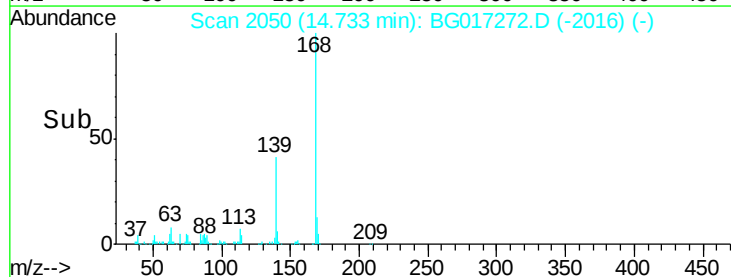
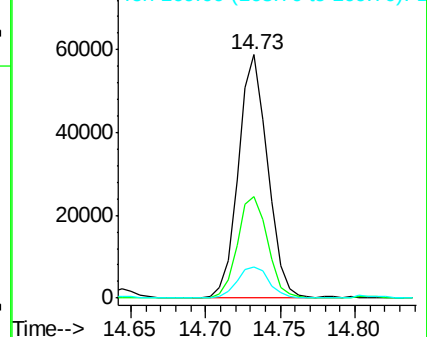
168 100

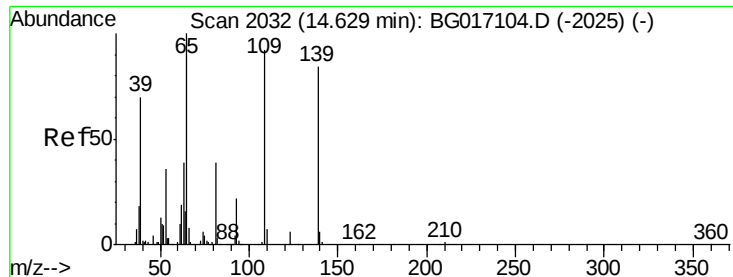
139 41.7 34.9 52.3

169 12.9 10.5 15.7



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

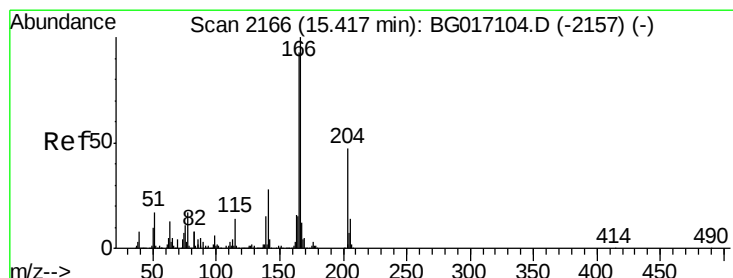
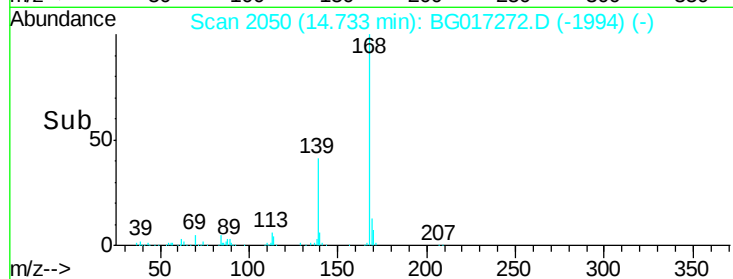
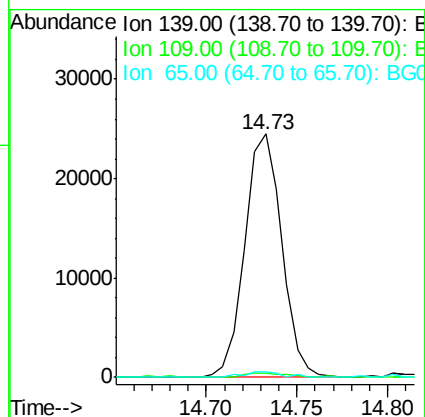
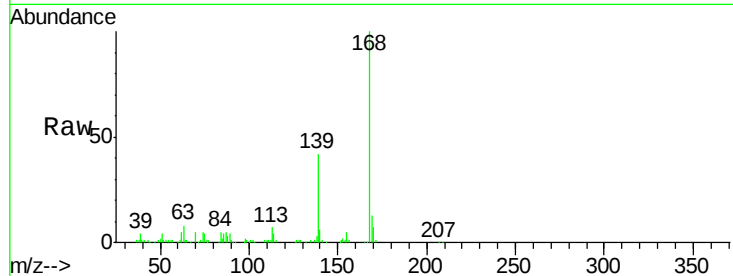




#55
4-Nitrophenol
Concen: 27.03 ng
RT: 14.73 min Scan# 2050
Delta R.T. 0.13 min
Lab File: BG017272.D
Acq: 23 May 2015 8:31

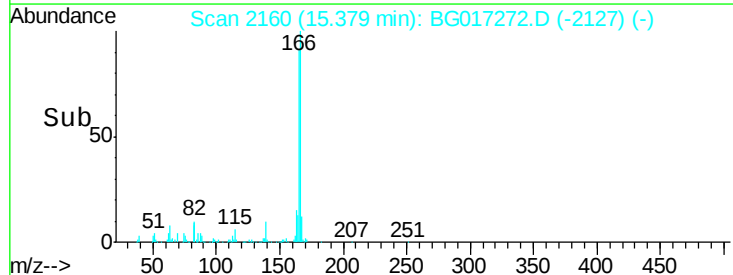
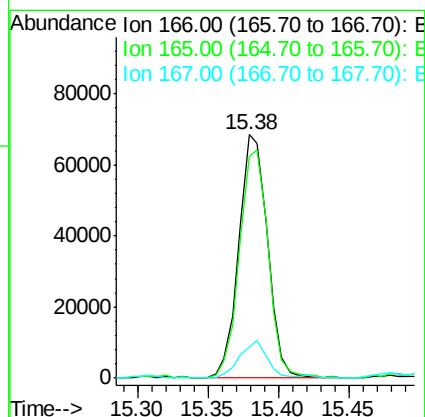
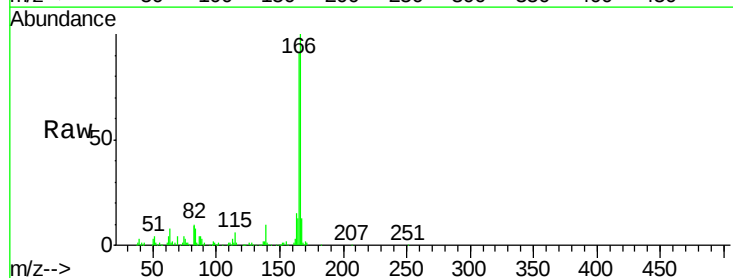
Instrument :
BNA_G
ClientSampleId :
SB-28S

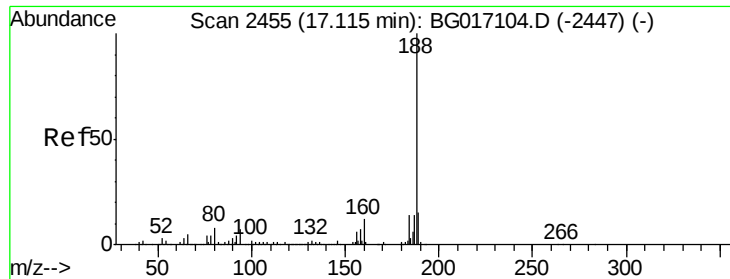
Tgt Ion	Ratio	Lower	Upper
139	100		
109	1.6	90.5	130.5#
65	2.1	99.9	139.9#



#57
Fluorene
Concen: 15.48 ng
RT: 15.38 min Scan# 2160
Delta R.T. -0.00 min
Lab File: BG017272.D
Acq: 23 May 2015 8:31

Tgt Ion	Ratio	Lower	Upper
166	100		
165	91.0	74.2	111.4
167	12.7	9.8	14.8

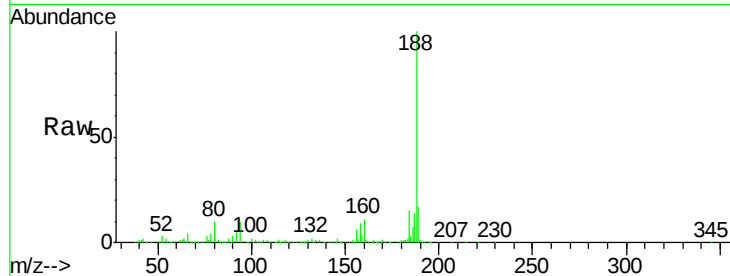




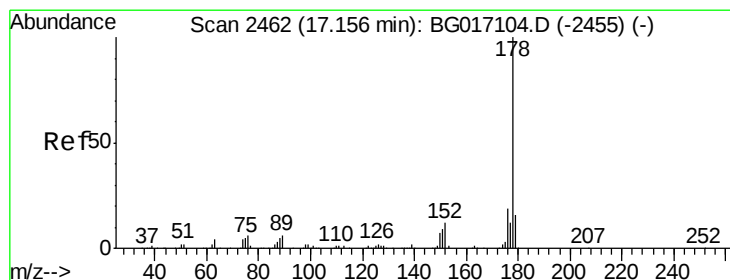
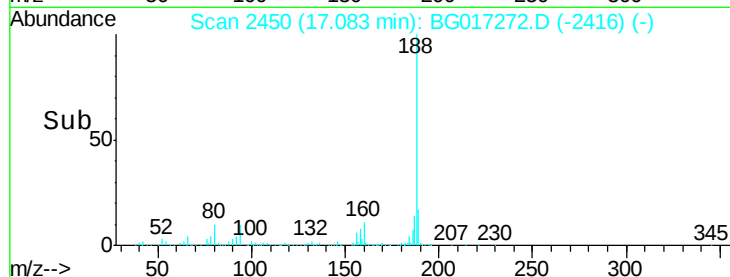
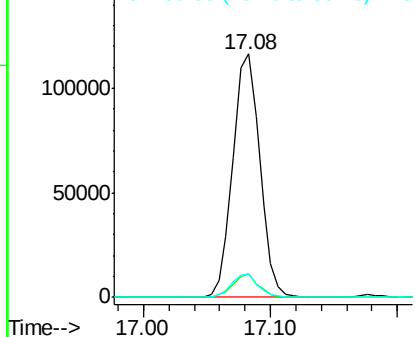
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.08 min Scan# 2450
Delta R.T. 0.00 min
Lab File: BG017272.D
Acq: 23 May 2015 8:31

Instrument :
BNA_G
ClientSampleId :
SB-28S

Tgt Ion:188 Resp: 171530
Ion Ratio Lower Upper
188 100
94 9.7 5.8 8.6#
80 9.6 6.5 9.7

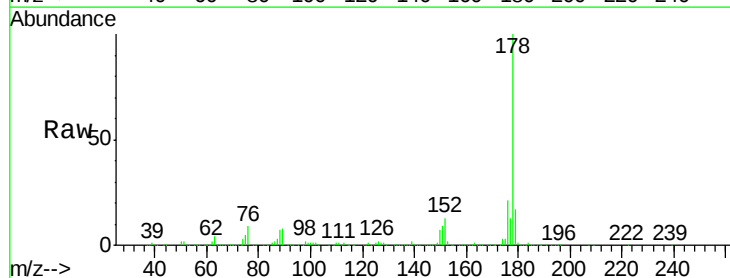


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BGO
Ion 80.00 (79.70 to 80.70): BGO

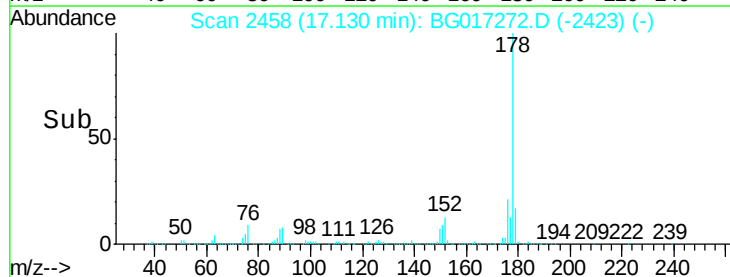
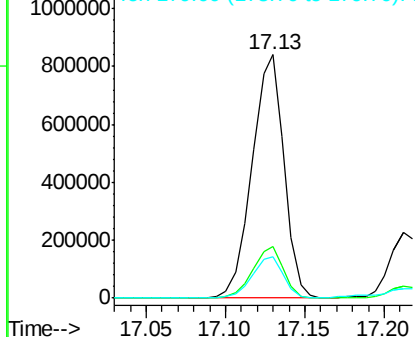


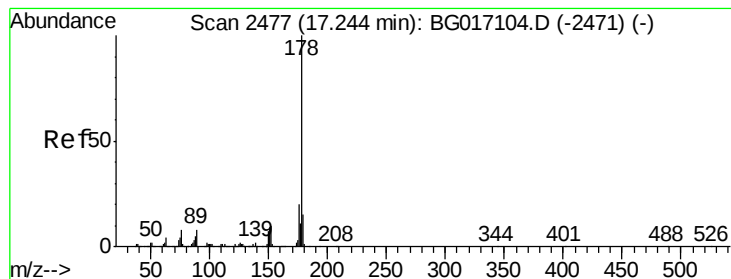
#70
Phenanthrene
Concen: 133.20 ng
RT: 17.13 min Scan# 2458
Delta R.T. 0.01 min
Lab File: BG017272.D
Acq: 23 May 2015 8:31

Tgt Ion:178 Resp: 1178189
Ion Ratio Lower Upper
178 100
176 21.2 15.4 23.2
179 16.9 12.5 18.7



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: 34.74 ng

RT: 17.21 min Scan# 2472

Delta R.T. 0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampled :

SB-28S

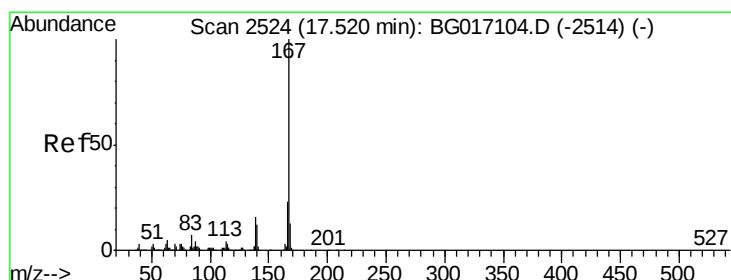
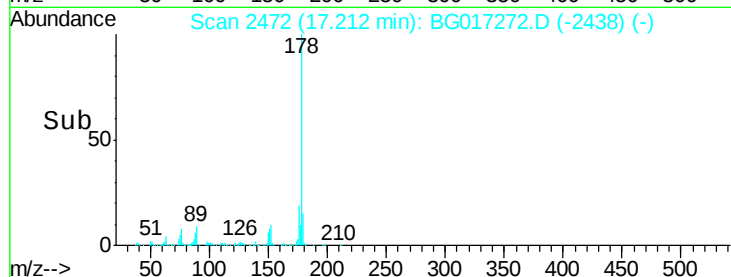
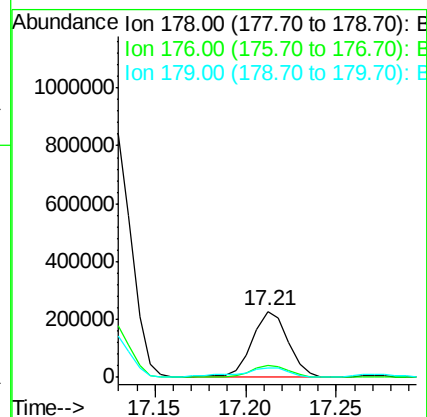
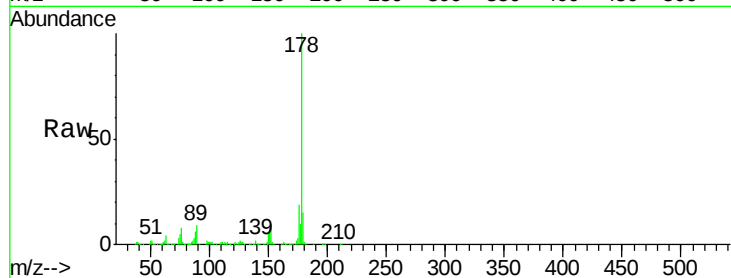
Tgt Ion:178 Resp: 311380

Ion Ratio Lower Upper

178 100

176 18.8 16.3 24.5

179 14.8 12.1 18.1



#72

Carbazole

Concen: 12.78 ng

RT: 17.49 min Scan# 2519

Delta R.T. 0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

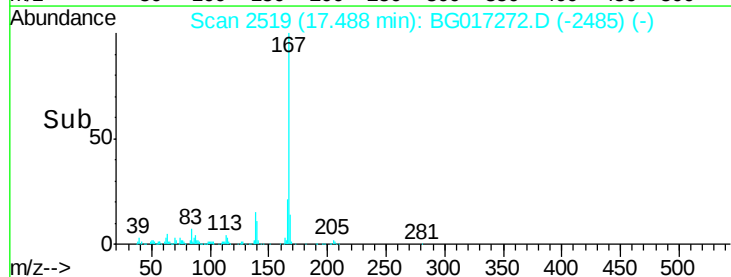
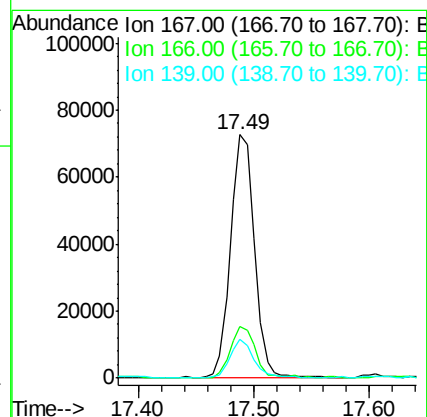
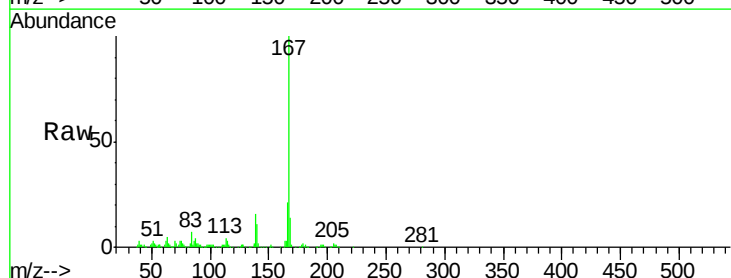
Tgt Ion:167 Resp: 105289

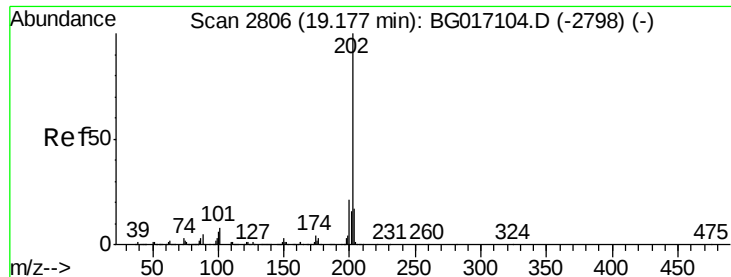
Ion Ratio Lower Upper

167 100

166 21.3 18.4 27.6

139 15.8 13.0 19.4





#74

Fluoranthene

Concen: 137.71 ng

RT: 19.15 min Scan# 2802

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

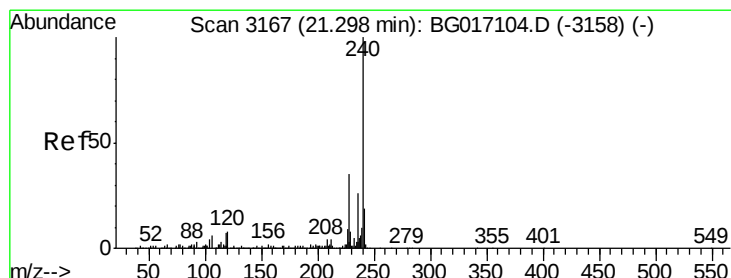
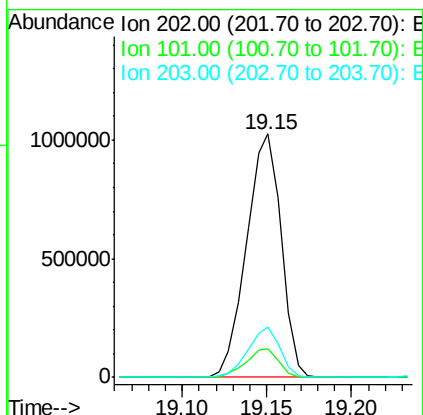
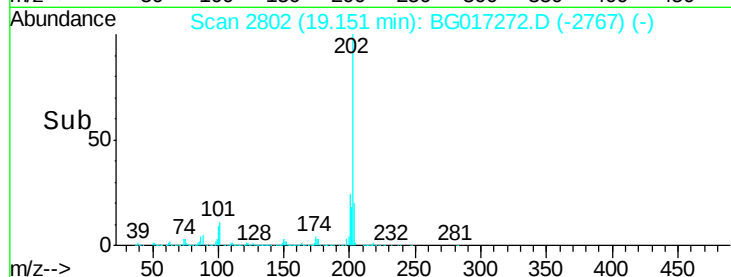
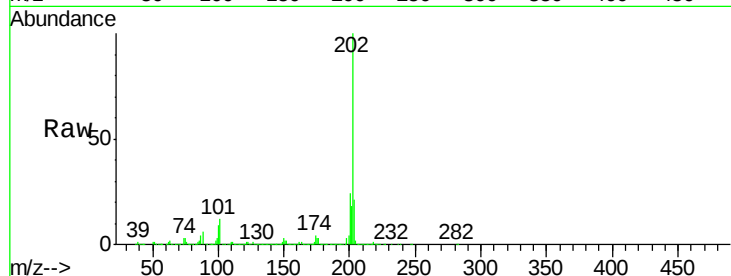
Tgt Ion:202 Resp: 1462794

Ion Ratio Lower Upper

202 100

101 11.6 0.0 28.3

203 20.6 0.0 37.4



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.27 min Scan# 3163

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

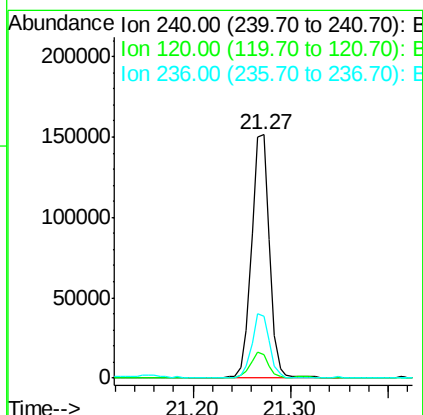
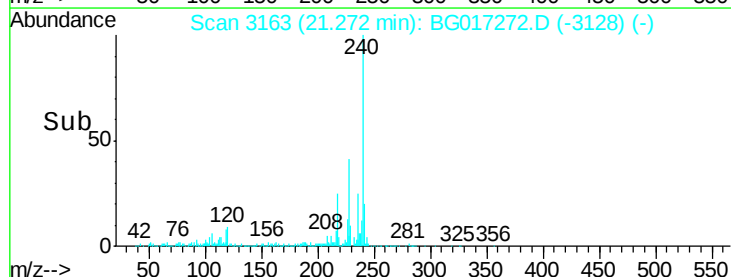
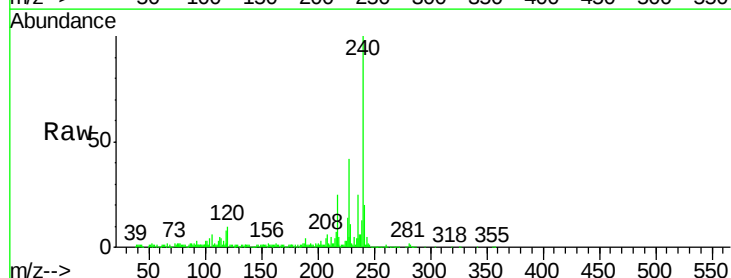
Tgt Ion:240 Resp: 194007

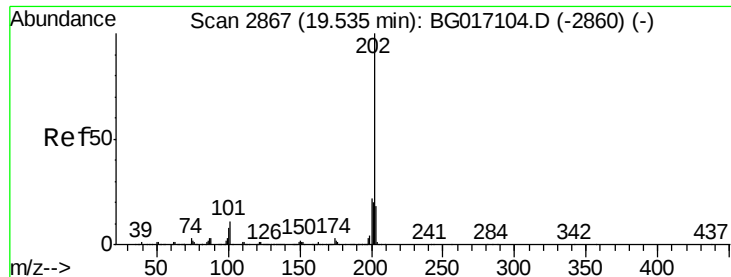
Ion Ratio Lower Upper

240 100

120 9.5 6.0 9.0#

236 25.3 20.5 30.7





#77

Pyrene

Concen: 102.41 ng

RT: 19.51 min Scan# 2863

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

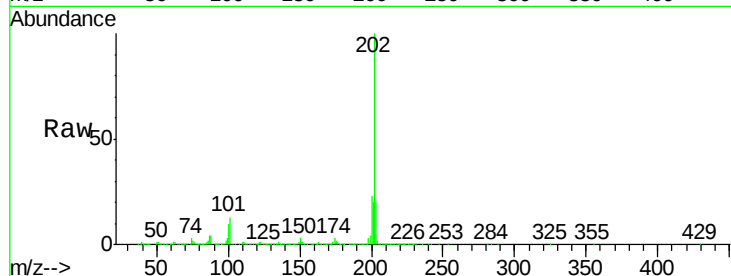
Tgt Ion:202 Resp: 1218946

Ion Ratio Lower Upper

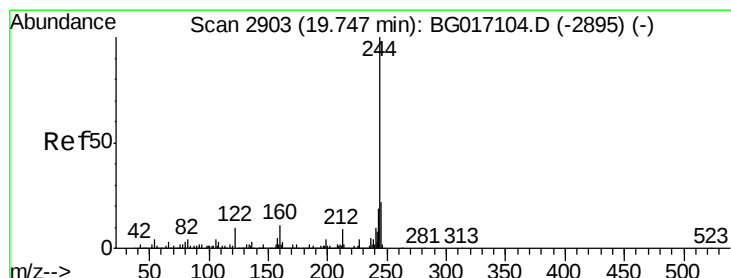
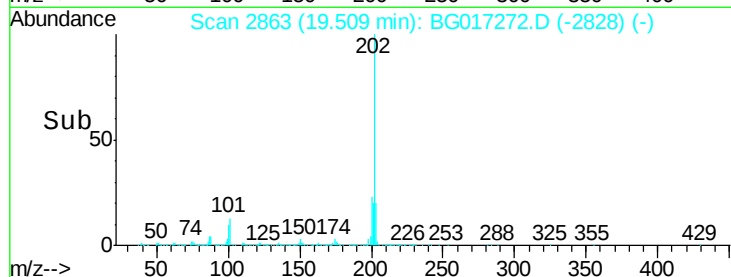
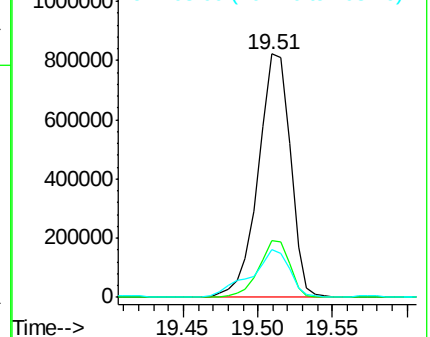
202 100

200 23.4 17.8 26.8

203 19.7 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 27.27 ng

RT: 19.71 min Scan# 2897

Delta R.T. -0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

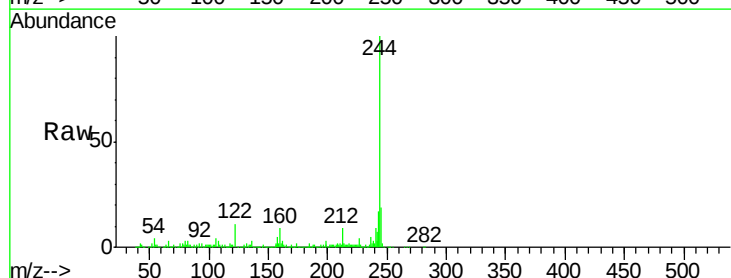
Tgt Ion:244 Resp: 253902

Ion Ratio Lower Upper

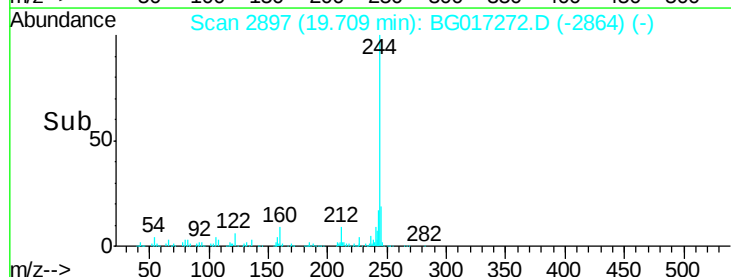
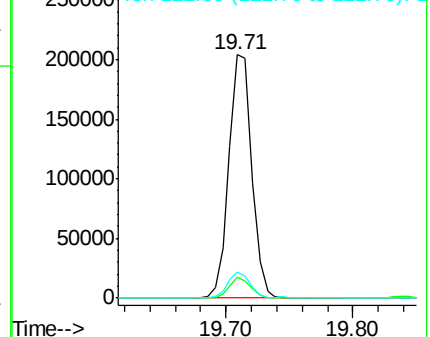
244 100

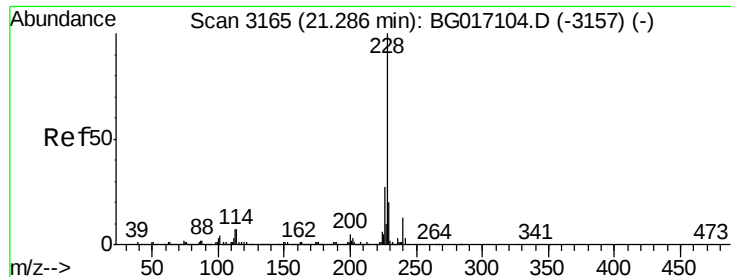
212 8.8 7.0 10.4

122 10.7 8.4 12.6



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





#80

Benzo(a)anthracene

Concen: 63.95 ng

RT: 21.25 min Scan# 3160

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

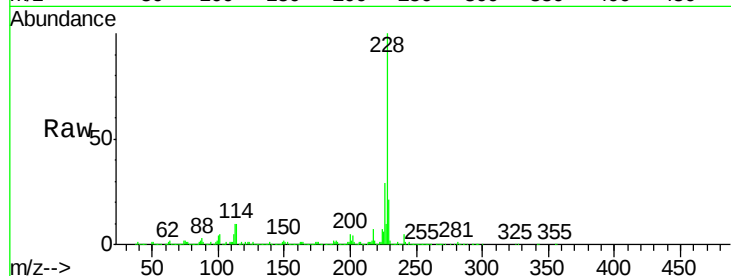
Tgt Ion:228 Resp: 710966

Ion Ratio Lower Upper

228 100

226 28.8 21.7 32.5

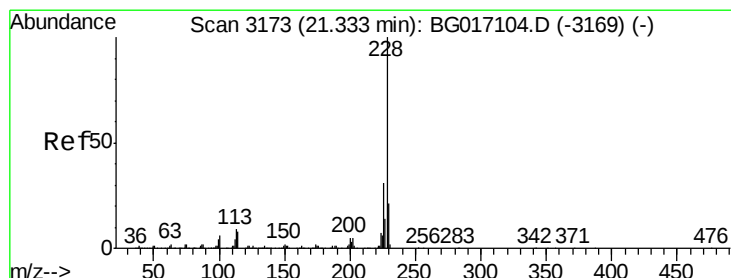
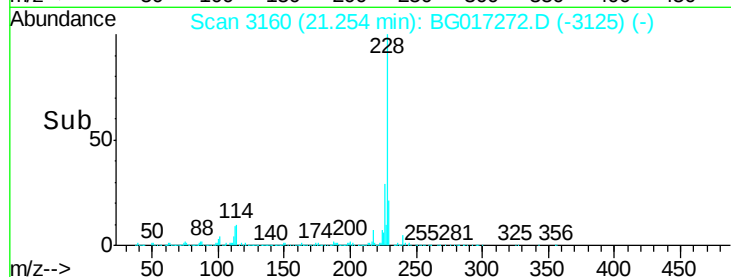
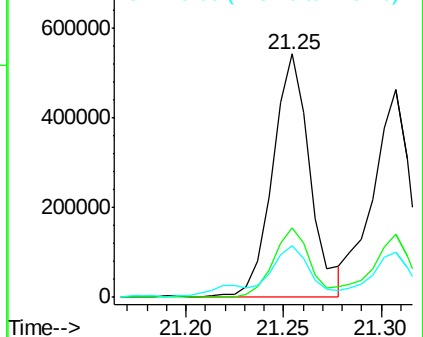
229 21.3 16.1 24.1



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: 58.36 ng

RT: 21.31 min Scan# 3169

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

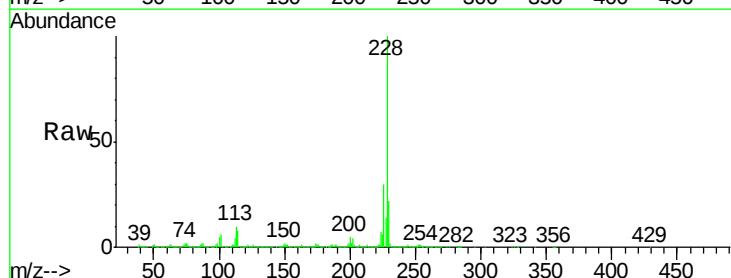
Tgt Ion:228 Resp: 604364

Ion Ratio Lower Upper

228 100

226 30.4 24.8 37.2

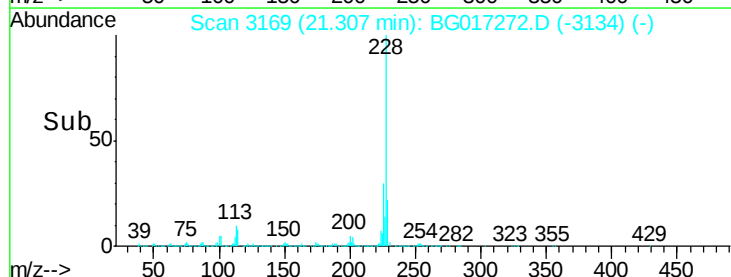
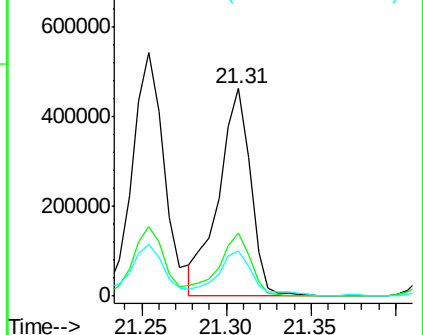
229 22.0 17.0 25.6

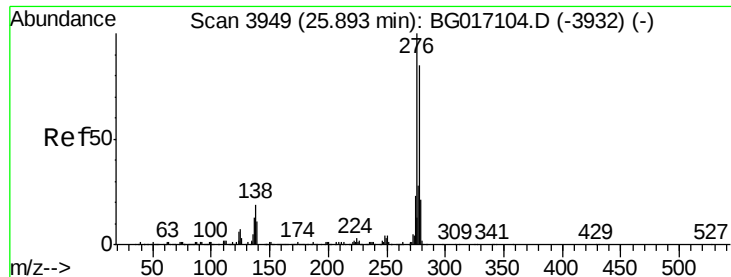


Abundance Ion 228.00 (227.70 to 228.70): E

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: 29.22 ng

RT: 25.82 min Scan# 3937

Delta R.T. 0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

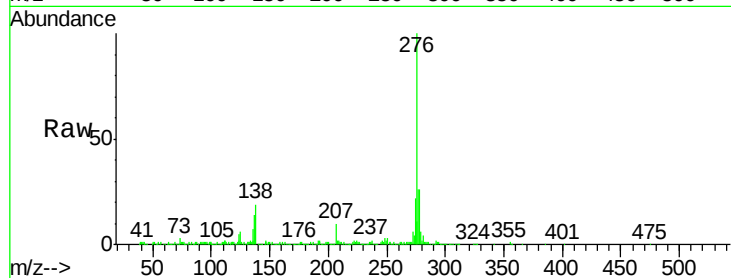
Tgt Ion:276 Resp: 362082

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

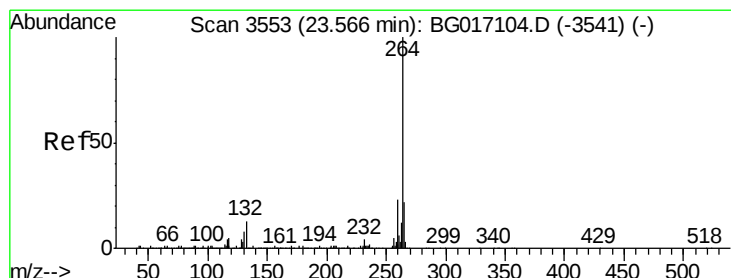
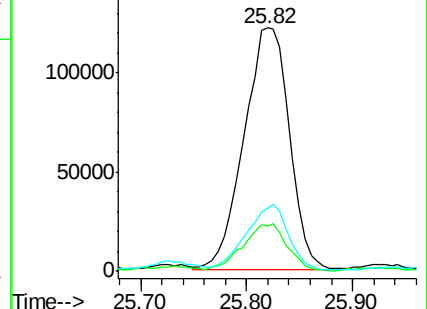
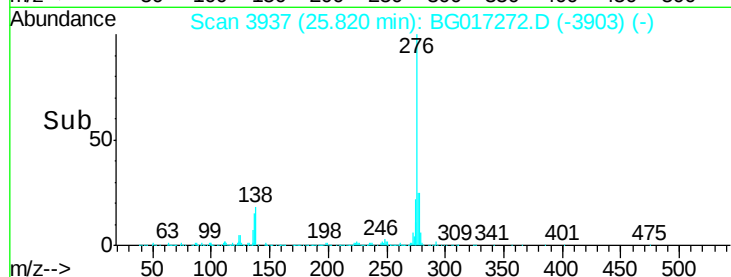
277 25.3 20.9 31.3



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: 23.52 min Scan# 3546

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

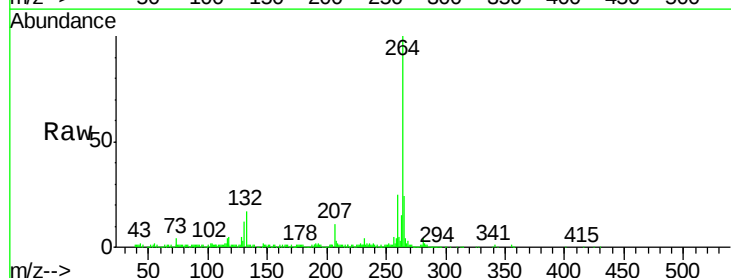
Tgt Ion:264 Resp: 193534

Ion Ratio Lower Upper

264 100

260 24.9 18.0 27.0

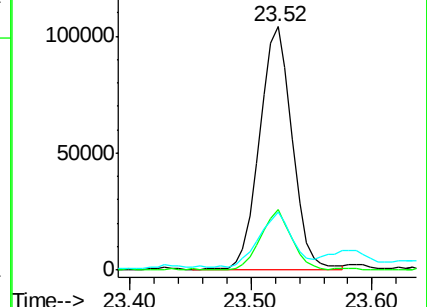
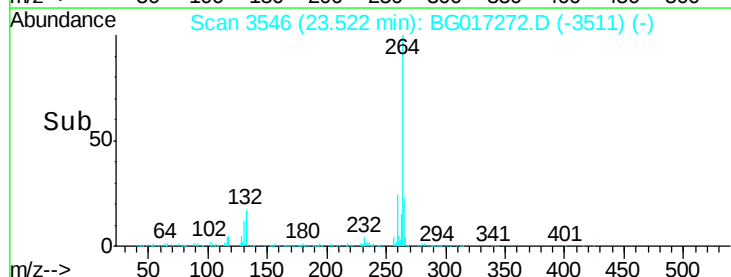
265 23.8 17.4 26.0

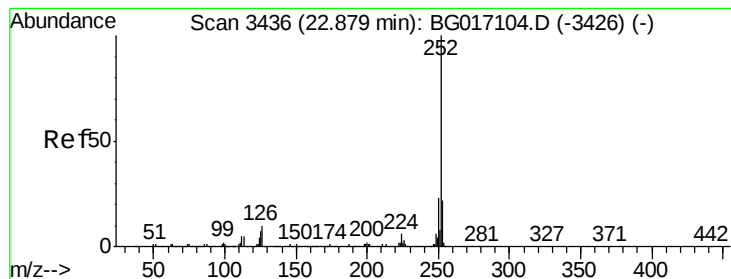


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 91.62 ng

RT: 22.85 min Scan# 3431

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

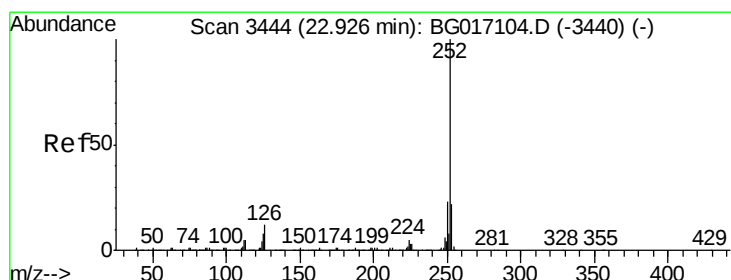
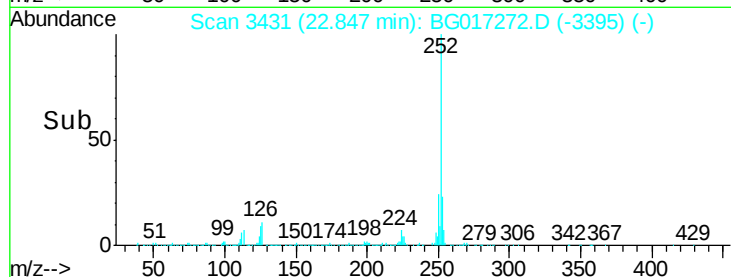
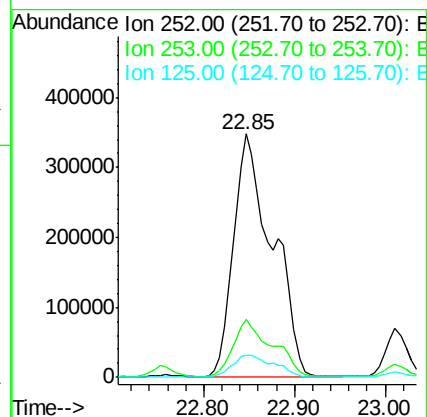
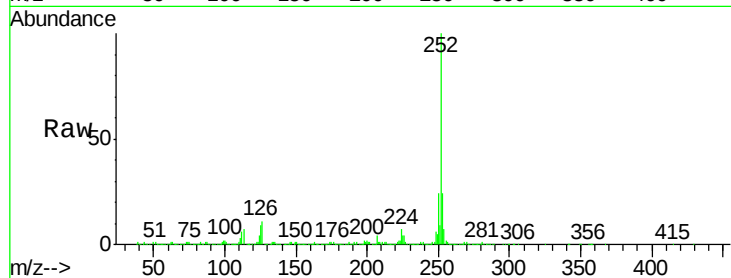
Tgt Ion:252 Resp: 1033629

Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.2

125 9.3 5.9 8.9#



#88

Benzo(k)fluoranthene

Concen: 96.50 ng

RT: 22.85 min Scan# 3431

Delta R.T. -0.03 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

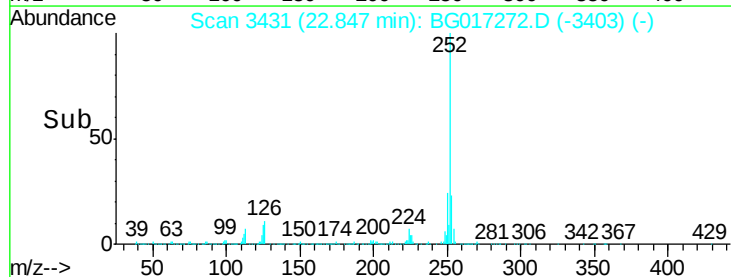
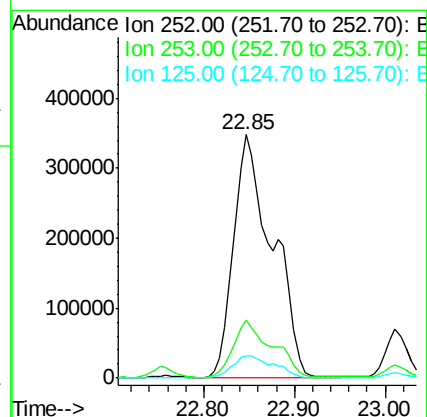
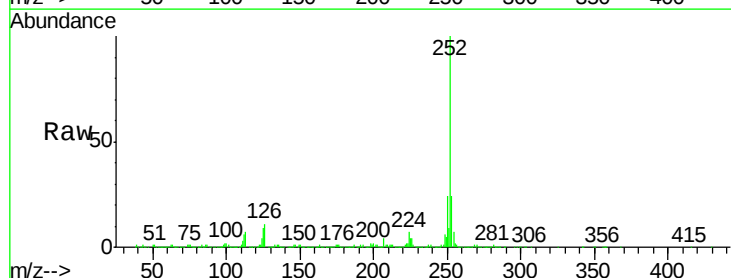
Tgt Ion:252 Resp: 1033629

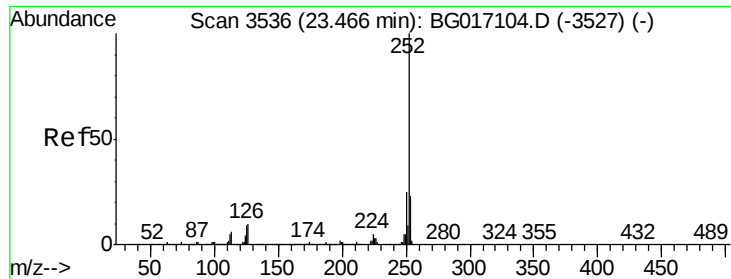
Ion Ratio Lower Upper

252 100

253 23.6 17.8 26.6

125 9.3 6.4 9.6





#89

Benzo(a)pyrene

Concen: 54.47 ng

RT: 23.43 min Scan# 3530

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

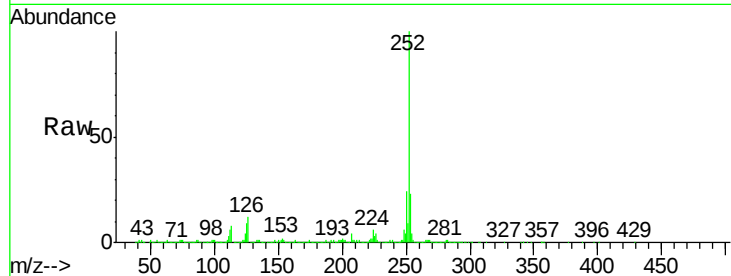
Tgt Ion:252 Resp: 564300

Ion Ratio Lower Upper

252 100

253 22.9 18.4 27.6

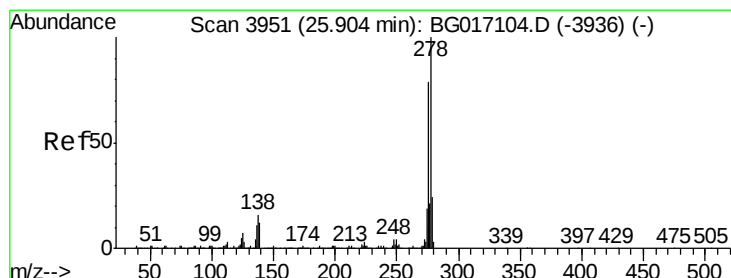
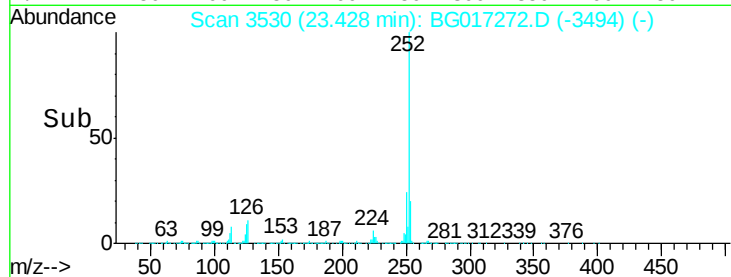
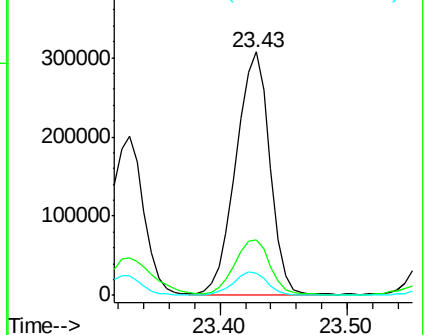
125 9.2 7.2 10.8



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



#90

Dibenzo(a,h)anthracene

Concen: 9.28 ng

RT: 25.83 min Scan# 3938

Delta R.T. 0.00 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

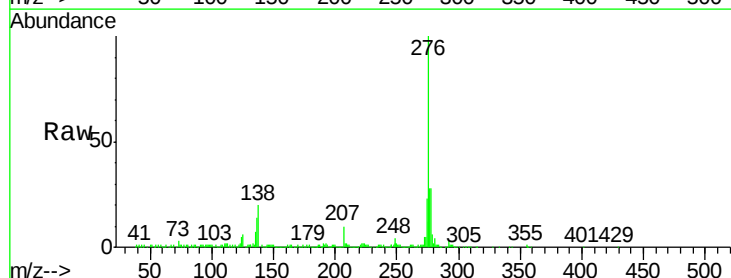
Tgt Ion:278 Resp: 98701

Ion Ratio Lower Upper

278 100

139 0.0 9.4 14.2#

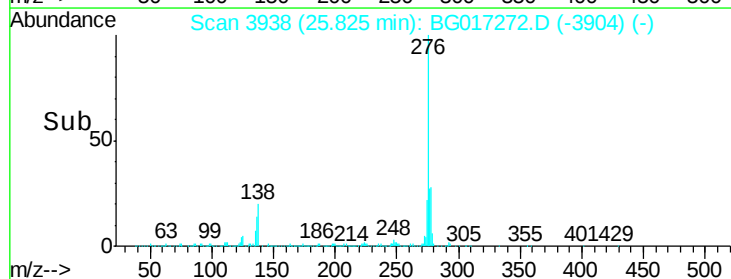
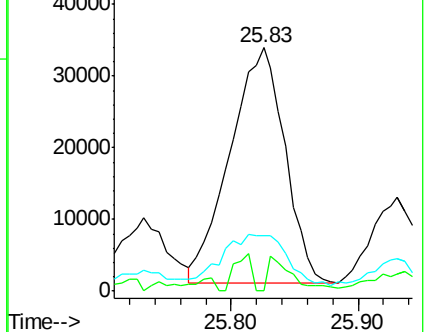
279 22.7 19.1 28.7

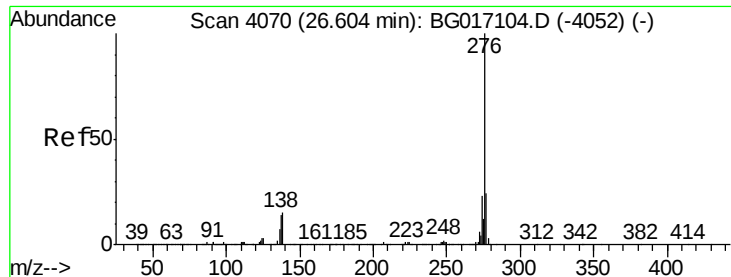


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 33.40 ng

RT: 26.53 min Scan# 4058

Delta R.T. 0.01 min

Lab File: BG017272.D

Acq: 23 May 2015 8:31

Instrument :

BNA_G

ClientSampleId :

SB-28S

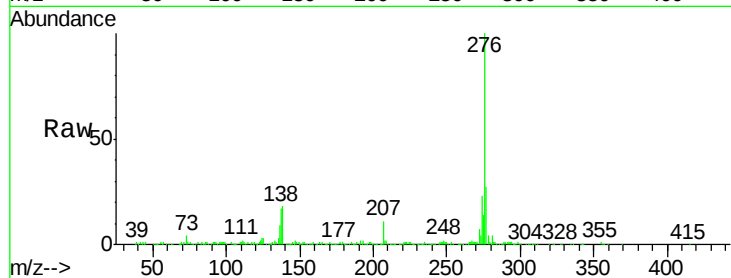
Tgt Ion: 276 Resp: 334360

Ion Ratio Lower Upper

276 100

277 26.7 18.9 28.3

138 18.3 11.8 17.8#



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

