

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
 Data File : BG017274.D
 Acq On : 23 May 2015 9:40
 Operator : TP/IZ
 Sample : G2289-08 2X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-29D

Quant Time: May 25 08:18:35 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	34187	20.00	ng	0.00
21) Naphthalene-d8	10.47	136	146792	20.00	ng	0.00
38) Acenaphthene-d10	14.33	164	84956	20.00	ng	0.00
63) Phenanthrene-d10	17.08	188	178677	20.00	ng	0.00
75) Chrysene-d12	21.26	240	191061	20.00	ng	0.00
86) Perylene-d12	23.51	264	194109	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.28	112	106729	55.39	ng	0.00
7) Phenol-d6	6.89	99	144876	53.58	ng	0.00
23) Nitrobenzene-d5	8.84	82	91373	29.06	ng	0.00
41) 2,4,6-Tribromophenol	15.83	330	48495	47.22	ng	0.00
44) 2-Fluorobiphenyl	12.95	172	167154	28.87	ng	0.00
78) Terphenyl-d14	19.71	244	256039	27.93	ng	0.00

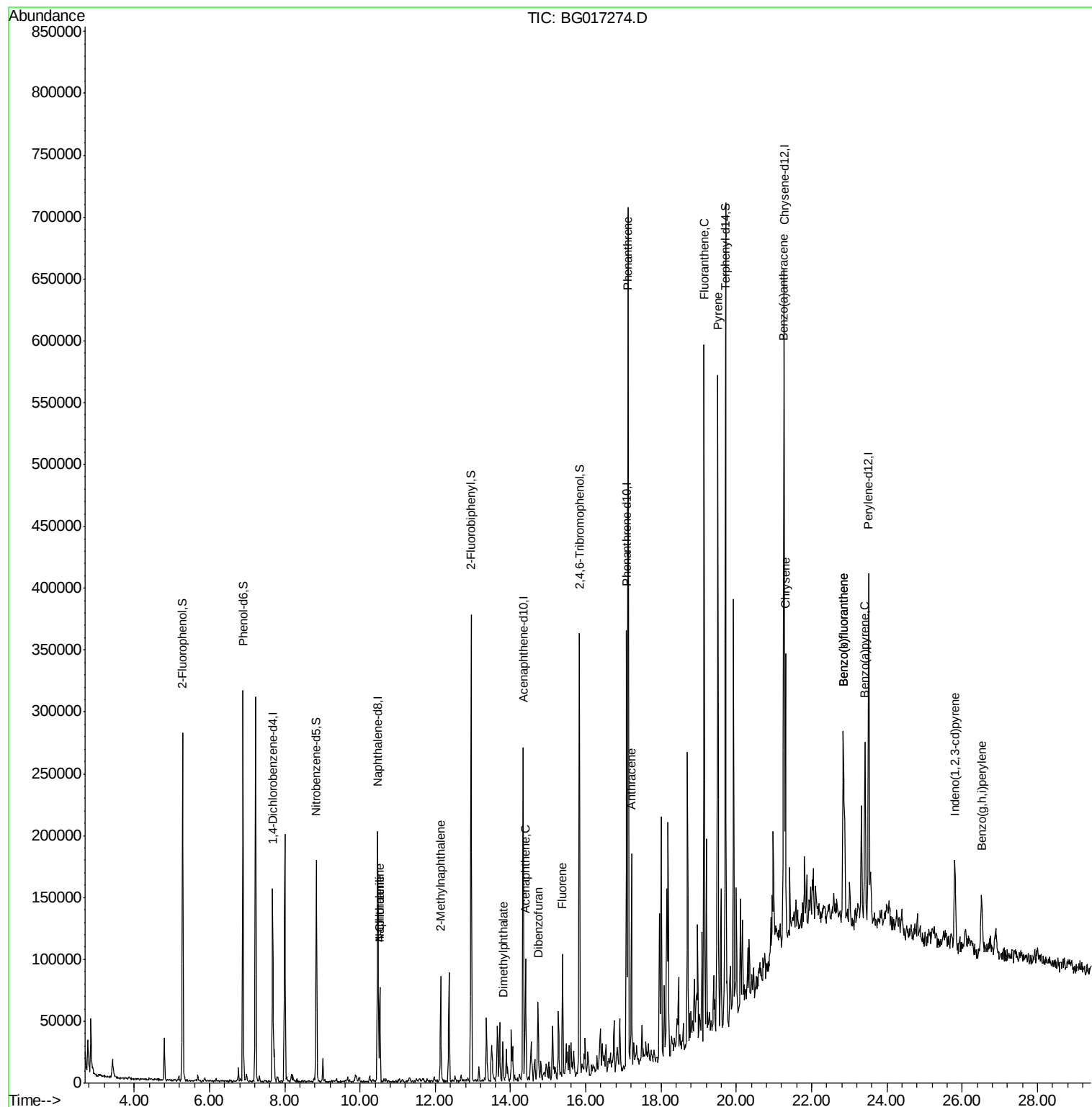
Target Compounds				Qvalue		
9) Benzaldehyde	6.83	77	151	Below Cal	#	1
31) Naphthalene	10.52	128	57919	8.06	ng	97
33) 4-Chloroaniline	10.52	127	7758	2.28	ng	# 30
37) 2-Methylnaphthalene	12.14	142	36585	6.42	ng	97
49) Dimethylphthalate	13.80	163	16509	2.49	ng	99
51) Acenaphthene	14.39	154	30615	6.25	ng	98
54) Dibenzofuran	14.73	168	17935	2.46	ng	# 96
57) Fluorene	15.38	166	37291	5.78	ng	# 96
70) Phenanthrene	17.12	178	363672	39.47	ng	99
71) Anthracene	17.21	178	92363	9.89	ng	94
74) Fluoranthene	19.14	202	292811	26.46	ng	97
77) Pyrene	19.51	202	309192	26.38	ng	97
80) Benzo(a)anthracene	21.25	228	131056	11.97	ng	98
82) Chrysene	21.30	228	110914	10.88	ng	99
85) Indeno(1,2,3-cd)pyrene	25.81	276	57685	4.73	ng	95
87) Benzo(b)fluoranthene	22.84	252	167905	14.84	ng	# 96
88) Benzo(k)fluoranthene	22.84	252	167905	15.63	ng	96
89) Benzo(a)pyrene	23.41	252	103692	9.98	ng	96
91) Benzo(g,h,i)perylene	26.51	276	56923	5.67	ng	# 95

(#) = 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# 849

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampled :

SB-29D

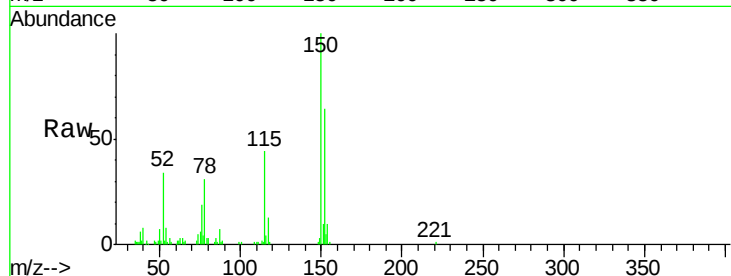
Tgt Ion:152 Resp: 34187

Ion Ratio Lower Upper

152 100

150 155.4 120.8 181.2

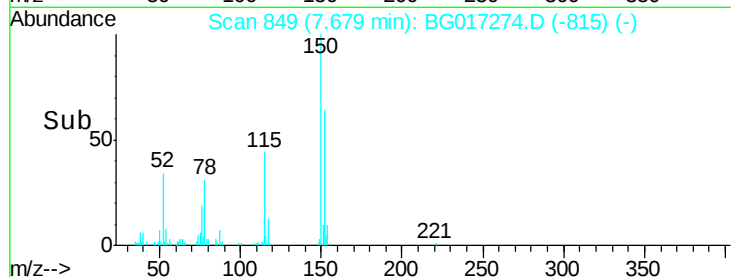
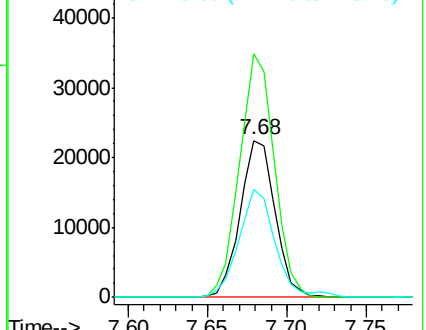
115 68.8 49.4 74.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 55.39 ng

RT: 5.28 min Scan# 441

Delta R.T. 0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

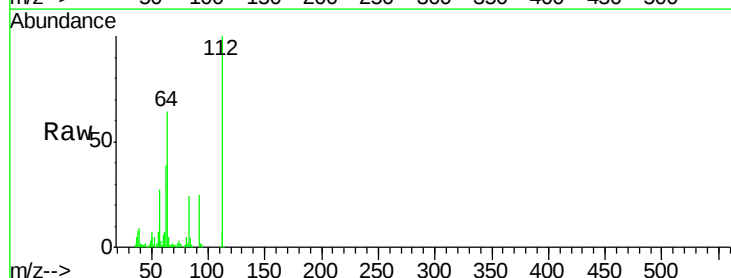
Tgt Ion:112 Resp: 106729

Ion Ratio Lower Upper

112 100

64 64.3 48.1 72.1

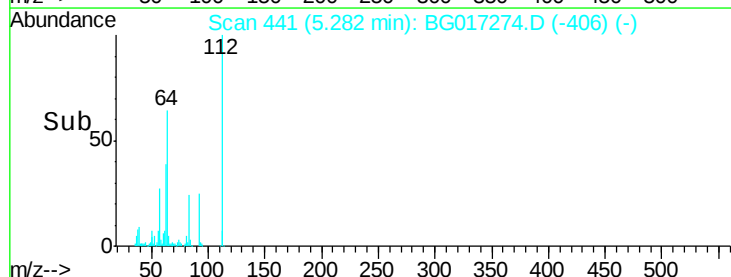
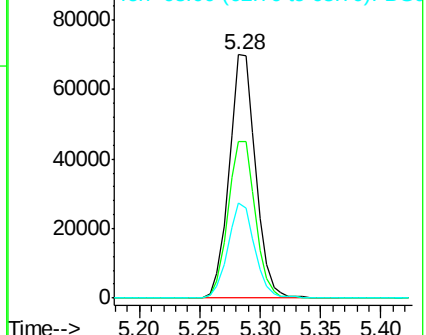
63 39.3 29.8 44.8

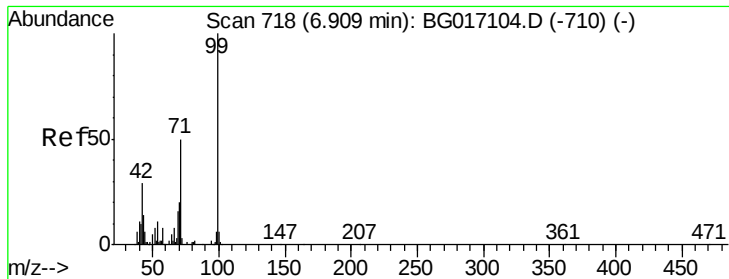


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 53.58 ng

RT: 6.89 min Scan# 715

Delta R.T. 0.01 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

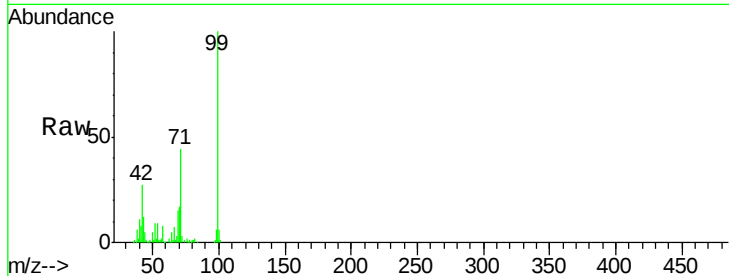
Tgt Ion: 99 Resp: 144876

Ion Ratio Lower Upper

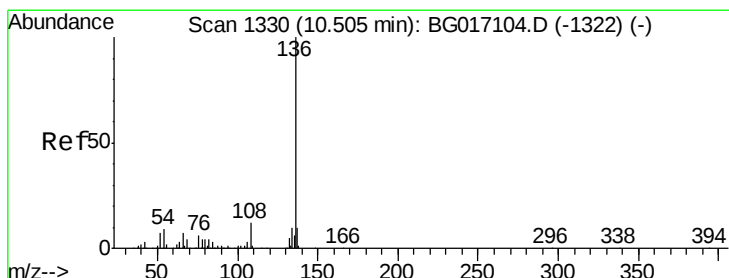
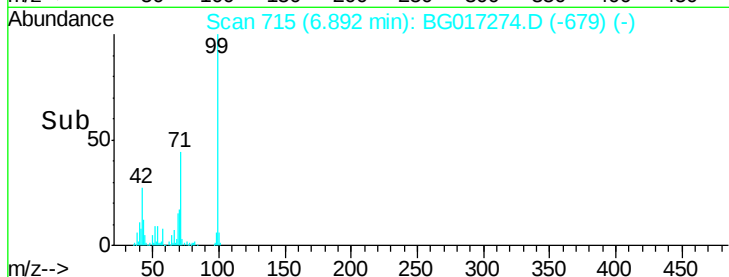
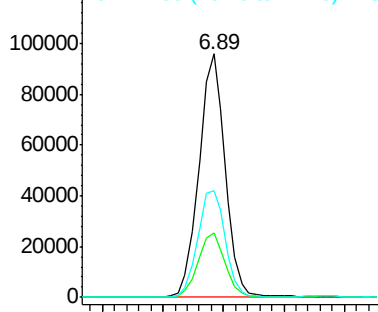
99 100

42 26.6 23.5 35.3

71 43.6 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# 1324

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Tgt Ion: 136 Resp: 146792

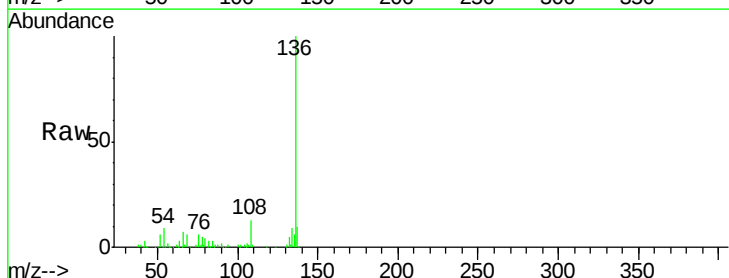
Ion Ratio Lower Upper

136 100

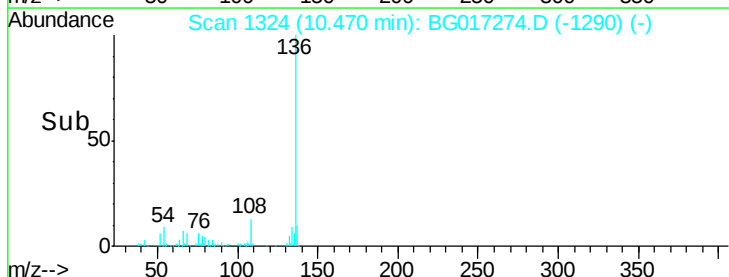
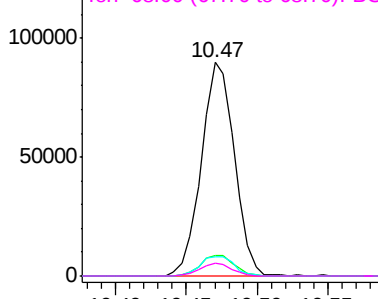
137 9.7 8.3 12.5

54 9.1 7.4 11.2

68 6.0 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

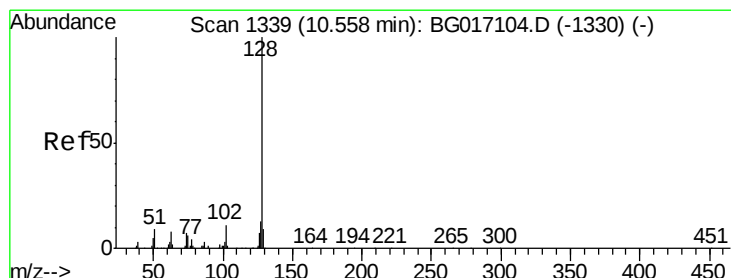
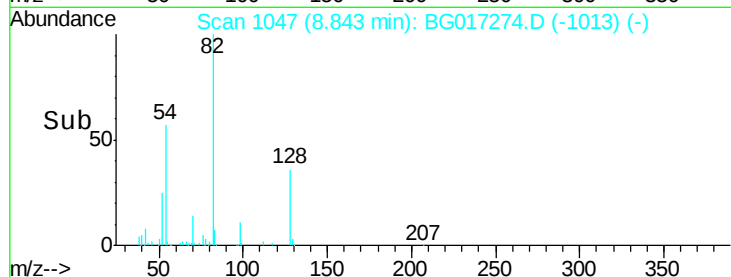
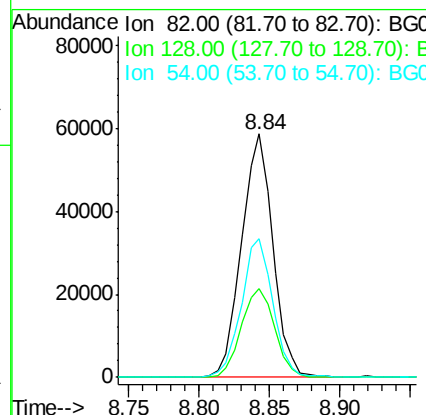
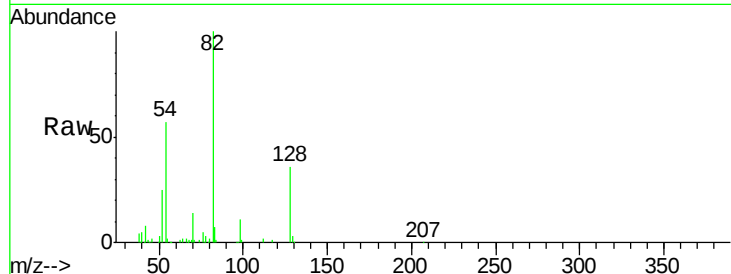




#23
 Nitrobenzene-d5
 Concen: 29.06 ng
 RT: 8.84 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: BG017274.D
 Acq: 23 May 2015 9:40

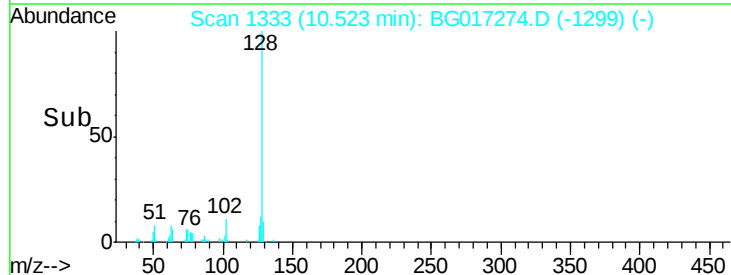
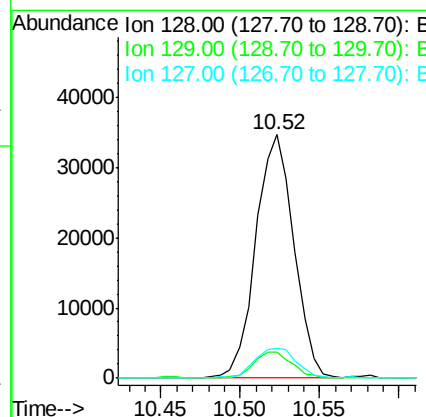
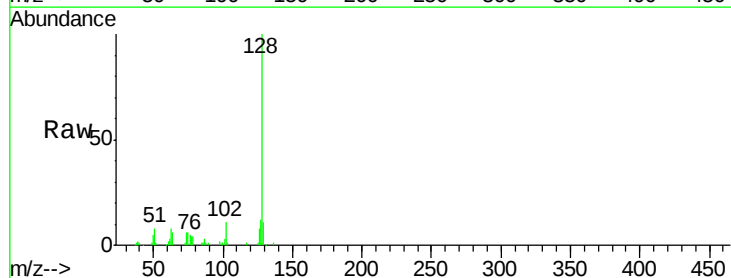
Instrument :
 BNA_G
 ClientSampleId :
 SB-29D

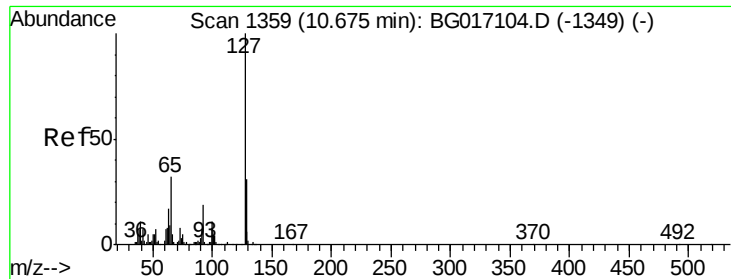
Tgt Ion	Ratio	Lower	Upper
82	100		
128	36.4	32.6	49.0
54	57.2	49.6	74.4



#31
 Naphthalene
 Concen: 8.06 ng
 RT: 10.52 min Scan# 1333
 Delta R.T. -0.00 min
 Lab File: BG017274.D
 Acq: 23 May 2015 9:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	7.6	11.4
127	12.5	10.6	16.0

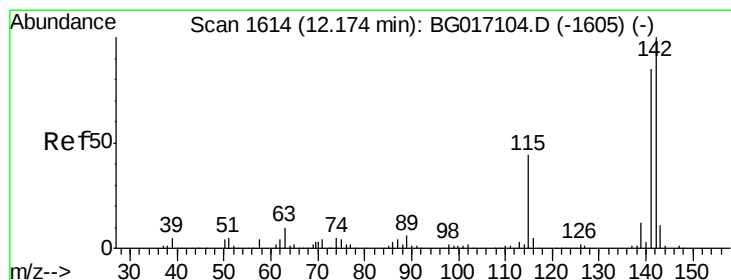
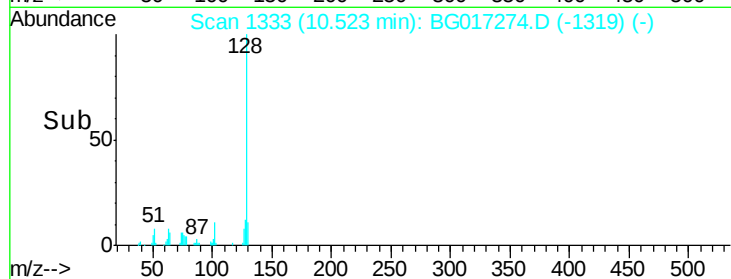
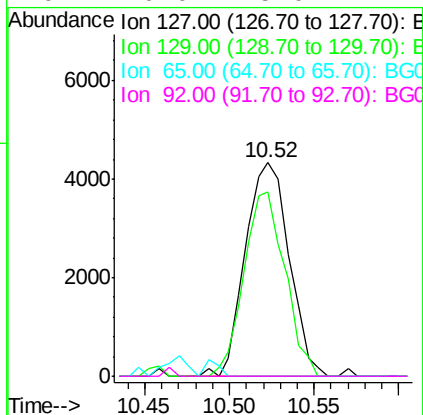
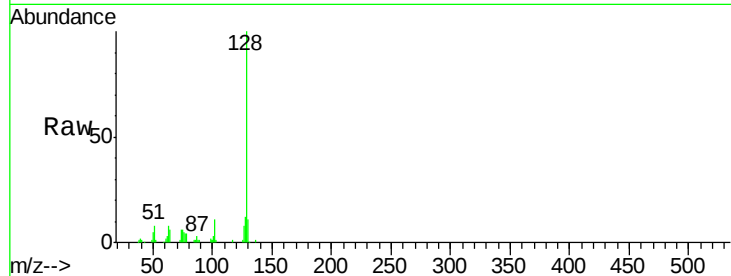




#33
 4-Chloroaniline
 Concen: 2.28 ng
 RT: 10.52 min Scan# 1333
 Delta R.T. -0.12 min
 Lab File: BG017274.D
 Acq: 23 May 2015 9:40

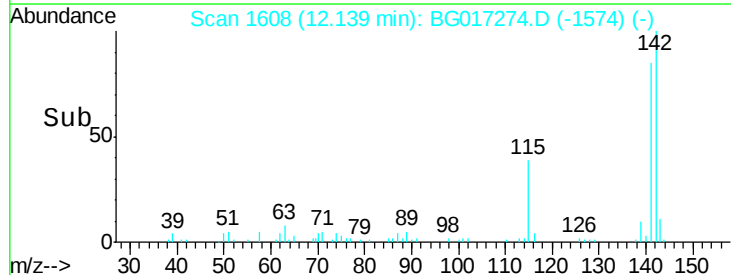
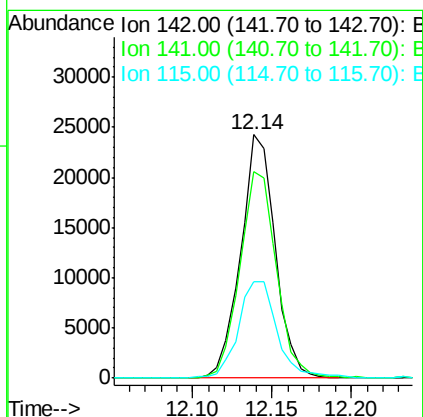
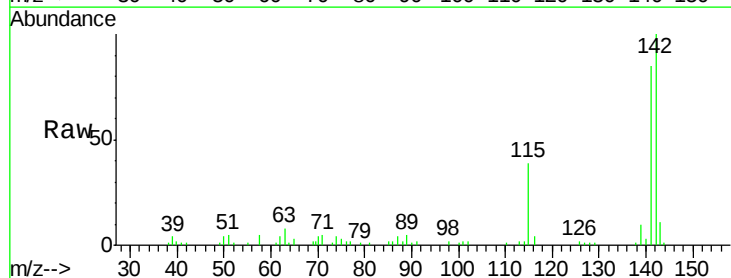
Instrument :
 BNA_G
 ClientSampleId :
 SB-29D

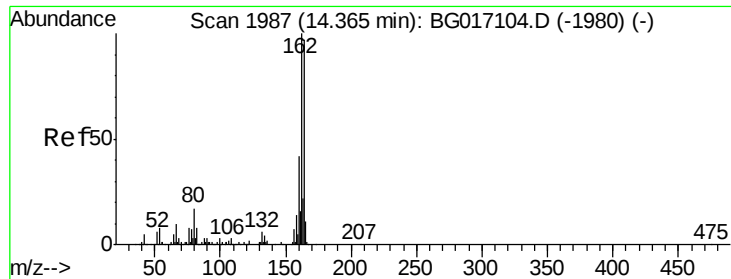
Tgt Ion:	127	Resp:	7758
Ion	Ratio	Lower	Upper
127	100		
129	86.4	24.8	37.2#
65	0.0	25.8	38.6#
92	0.0	15.0	22.4#



#37
 2-Methylnaphthalene
 Concen: 6.42 ng
 RT: 12.14 min Scan# 1608
 Delta R.T. -0.00 min
 Lab File: BG017274.D
 Acq: 23 May 2015 9:40

Tgt Ion:	142	Resp:	36585
Ion	Ratio	Lower	Upper
142	100		
141	84.8	68.2	102.2
115	39.5	35.6	53.4





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.33 min Scan# 1981

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

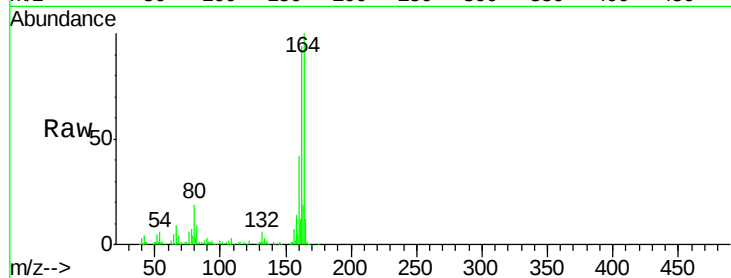
Tgt Ion:164 Resp: 84956

Ion Ratio Lower Upper

164 100

162 94.0 82.1 123.1

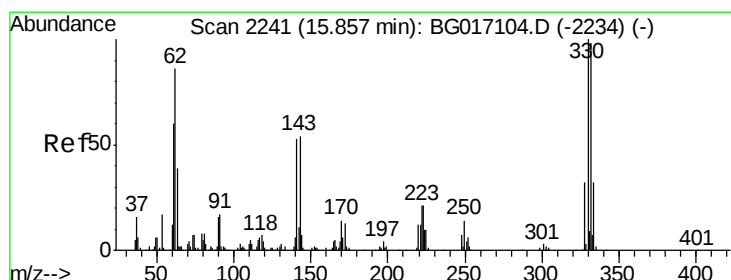
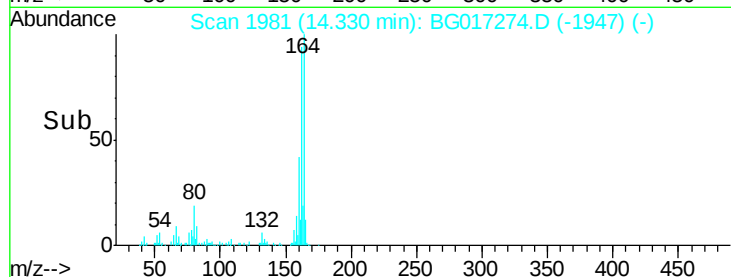
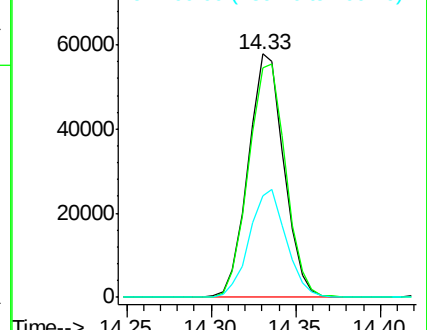
160 41.9 34.8 52.2



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: 47.22 ng

RT: 15.83 min Scan# 2236

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

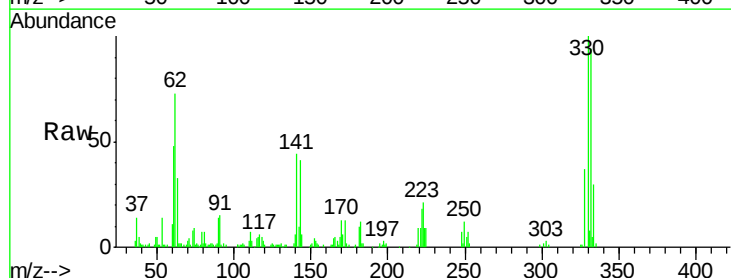
Tgt Ion:330 Resp: 48495

Ion Ratio Lower Upper

330 100

332 91.2 76.9 115.3

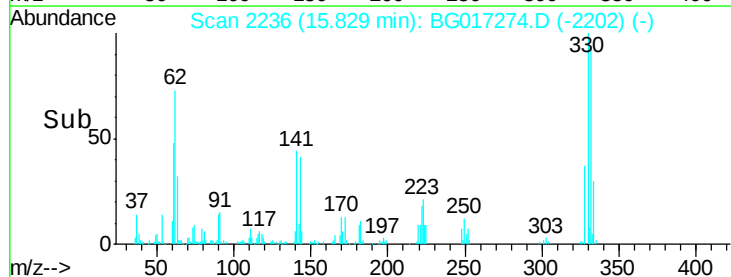
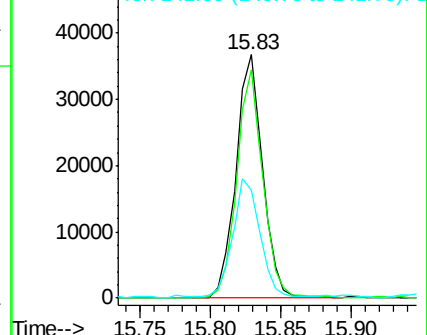
141 51.5 42.2 63.2

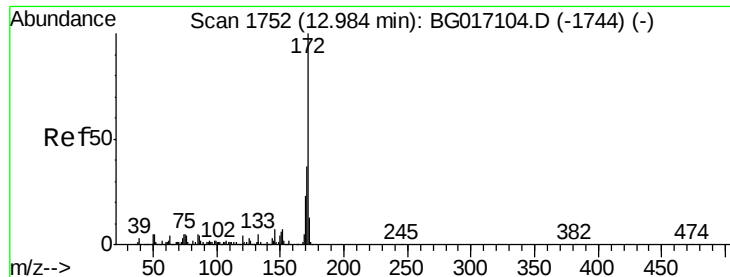


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

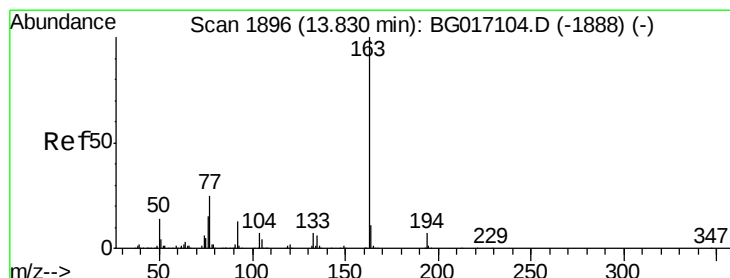
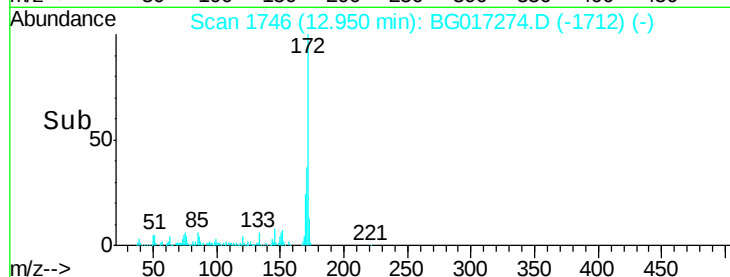
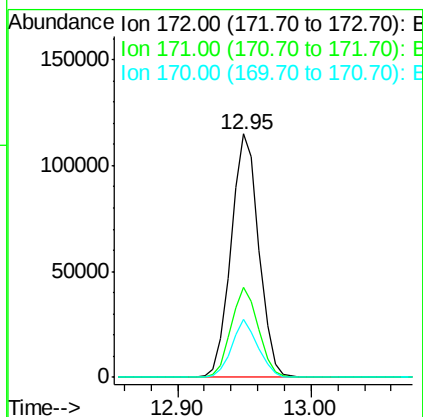
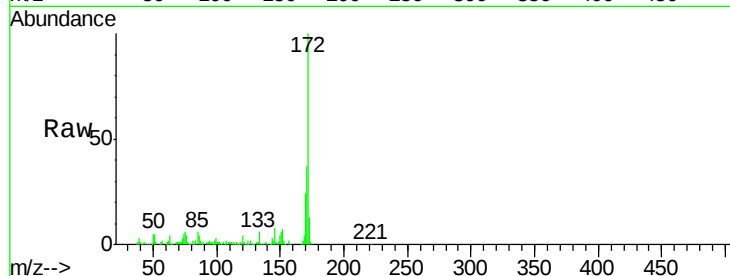




#44
2-Fluorobiphenyl
Concen: 28.87 ng
RT: 12.95 min Scan# 1746
Delta R.T. -0.00 min
Lab File: BG017274.D
Acq: 23 May 2015 9:40

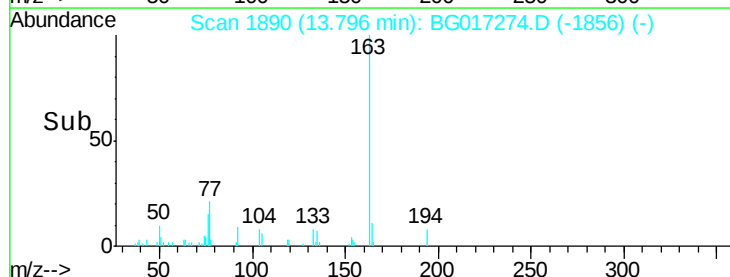
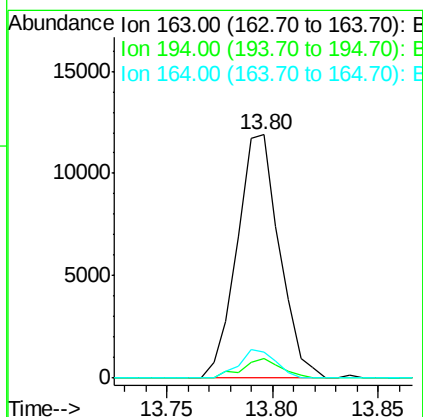
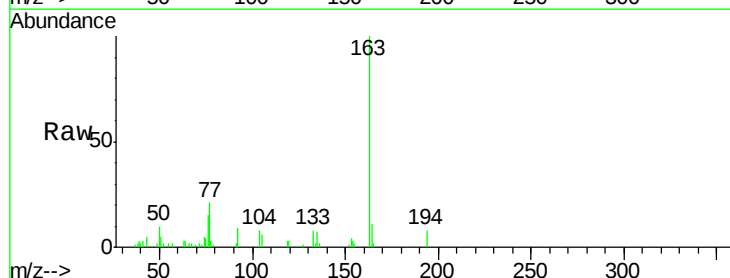
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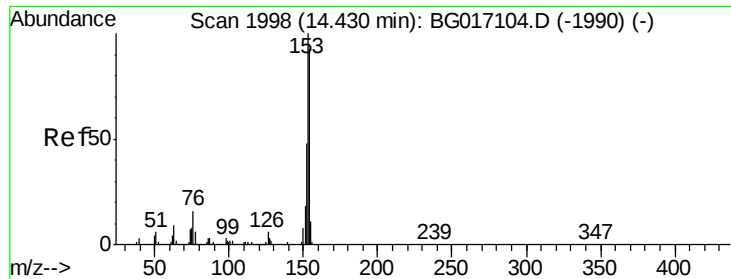
Tgt Ion:172 Resp: 167154
Ion Ratio Lower Upper
172 100
171 37.1 29.7 44.5
170 23.9 18.4 27.6



#49
Dimethylphthalate
Concen: 2.49 ng
RT: 13.80 min Scan# 1890
Delta R.T. -0.00 min
Lab File: BG017274.D
Acq: 23 May 2015 9:40

Tgt Ion:163 Resp: 16509
Ion Ratio Lower Upper
163 100
194 7.8 5.6 8.4
164 10.9 8.6 13.0





#51

Acenaphthene

Concen: 6.25 ng

RT: 14.39 min Scan# 1992

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

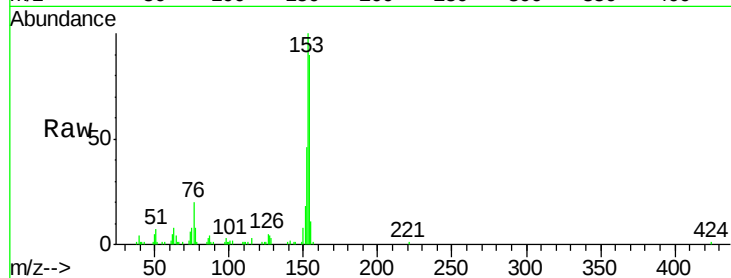
Tgt Ion:154 Resp: 30615

Ion Ratio Lower Upper

154 100

153 110.8 86.2 129.4

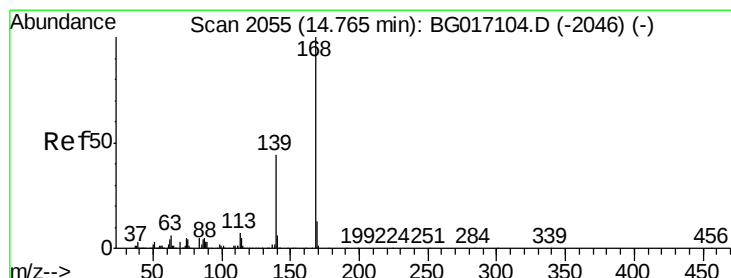
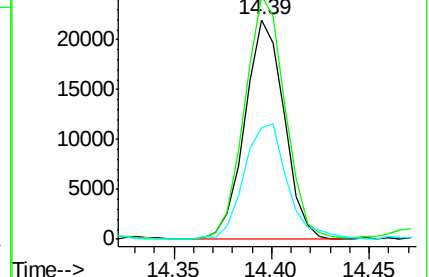
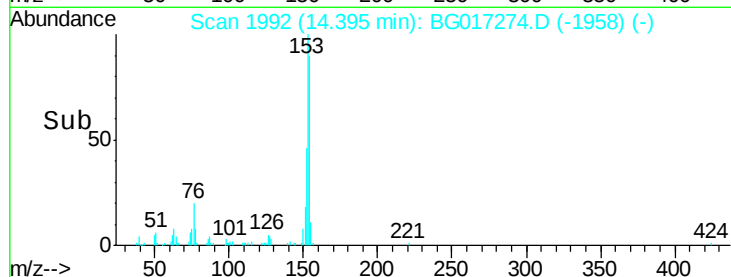
152 50.9 41.5 62.3



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: 2.46 ng

RT: 14.73 min Scan# 2049

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

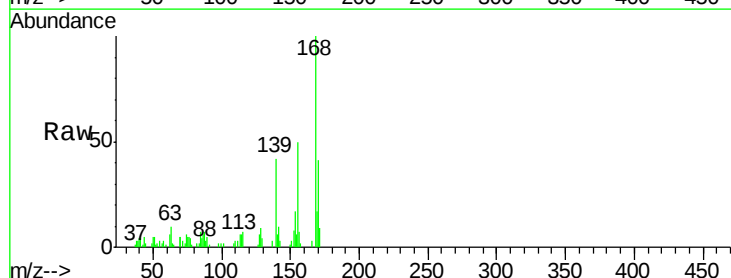
Tgt Ion:168 Resp: 17935

Ion Ratio Lower Upper

168 100

139 41.9 34.9 52.3

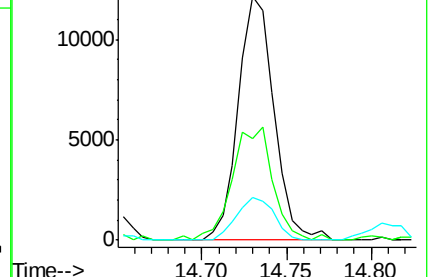
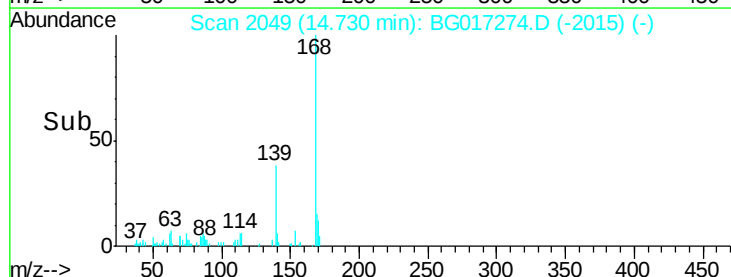
169 17.3 10.5 15.7#

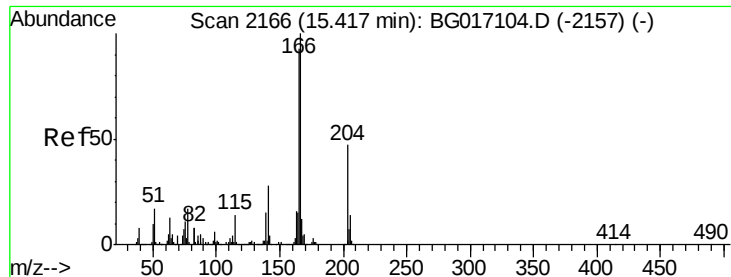


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 5.78 ng

RT: 15.38 min Scan# 2160

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

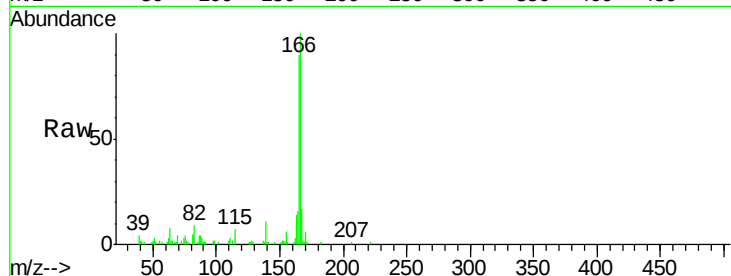
Tgt Ion:166 Resp: 37291

Ion Ratio Lower Upper

166 100

165 90.2 74.2 111.4

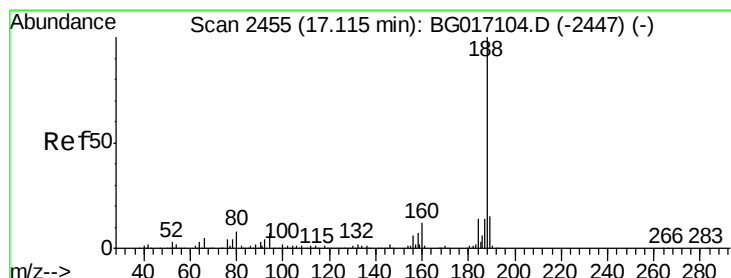
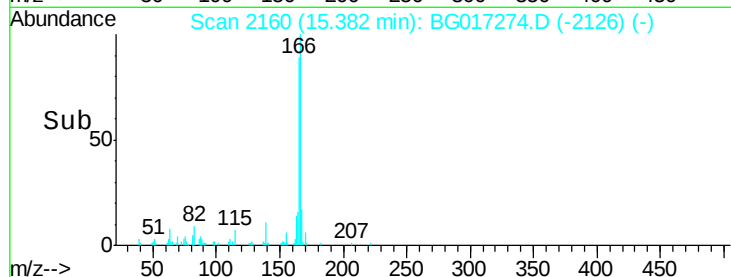
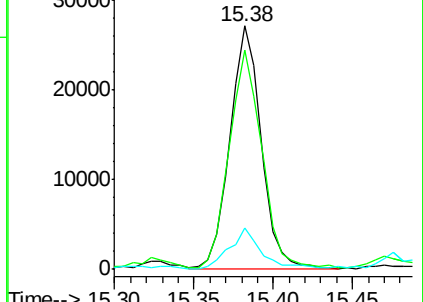
167 17.0 9.8 14.8#



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: 17.08 min Scan# 2449

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

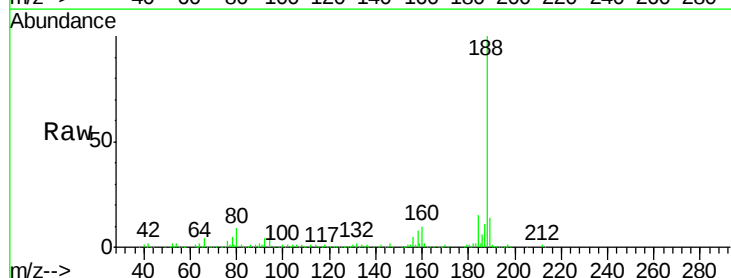
Tgt Ion:188 Resp: 178677

Ion Ratio Lower Upper

188 100

94 9.3 5.8 8.6#

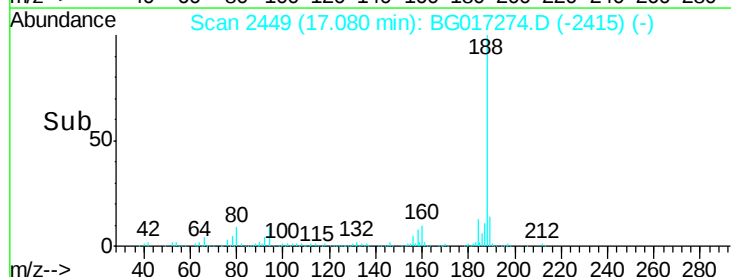
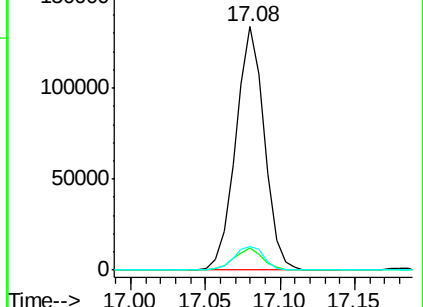
80 9.4 6.5 9.7

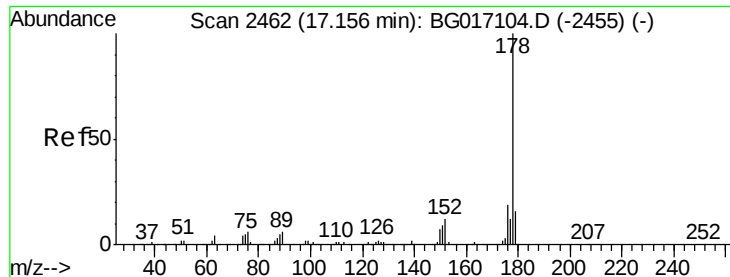


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 39.47 ng

RT: 17.12 min Scan# 2456

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

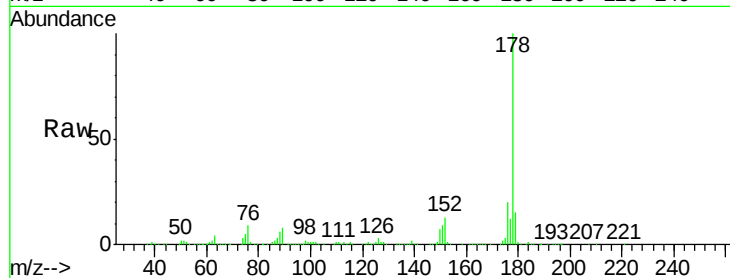
Tgt Ion:178 Resp: 363672

Ion Ratio Lower Upper

178 100

176 19.7 15.4 23.2

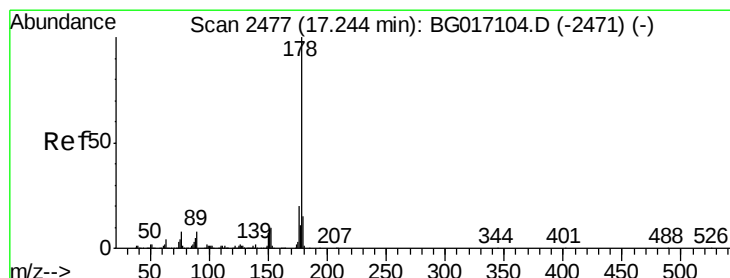
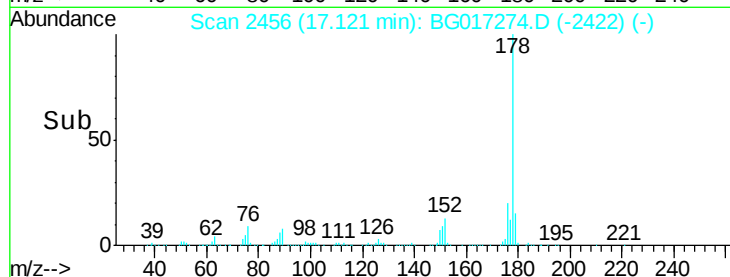
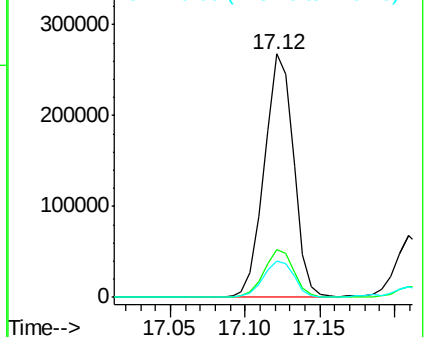
179 14.9 12.5 18.7



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: 9.89 ng

RT: 17.21 min Scan# 2471

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

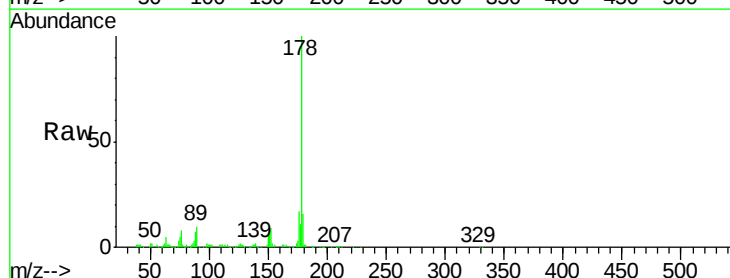
Tgt Ion:178 Resp: 92363

Ion Ratio Lower Upper

178 100

176 16.8 16.3 24.5

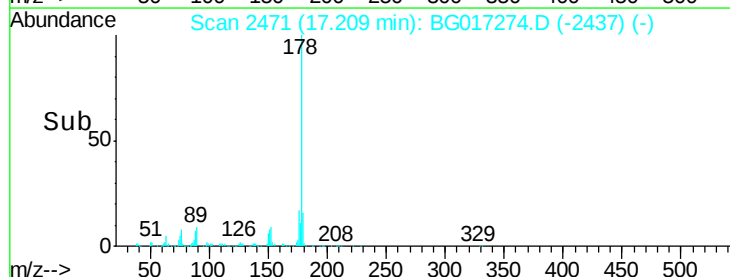
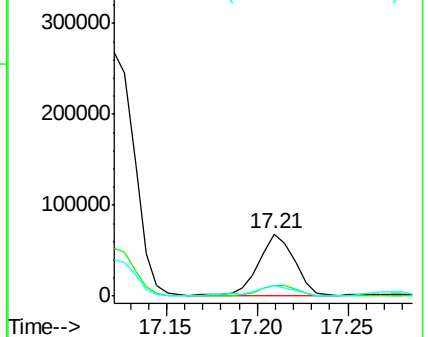
179 16.3 12.1 18.1

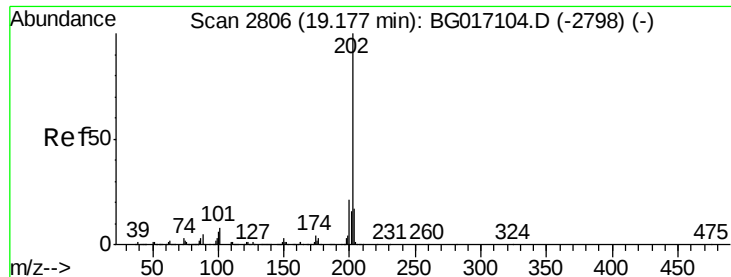


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 26.46 ng

RT: 19.14 min Scan# 2800

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

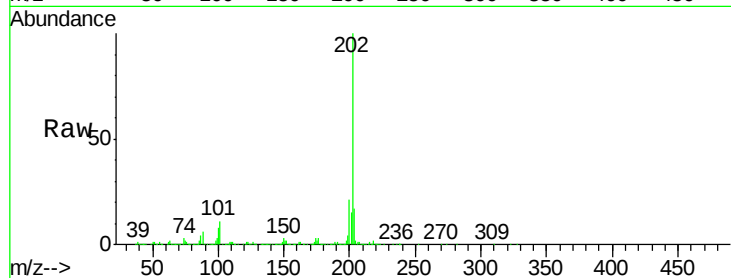
Tgt Ion: 202 Resp: 292811

Ion Ratio Lower Upper

202 100

101 10.6 0.0 28.3

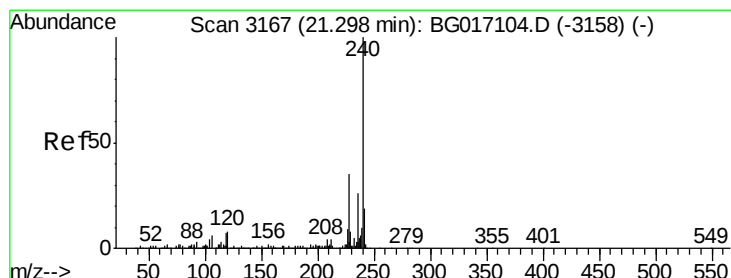
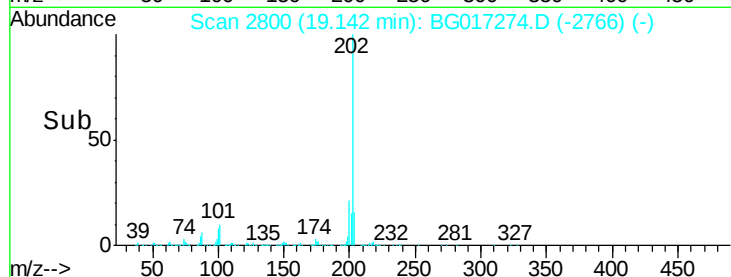
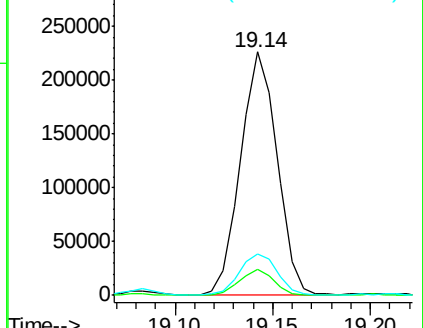
203 17.1 0.0 37.4



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: 21.26 min Scan# 3161

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

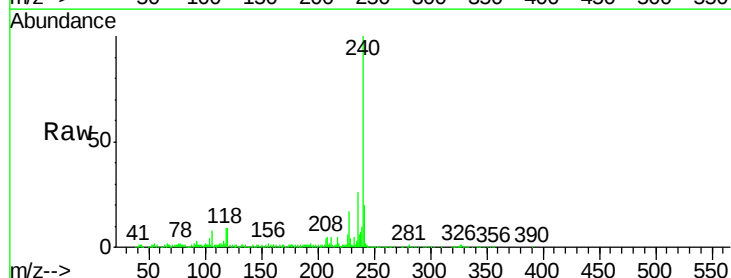
Tgt Ion: 240 Resp: 191061

Ion Ratio Lower Upper

240 100

120 9.4 6.0 9.0#

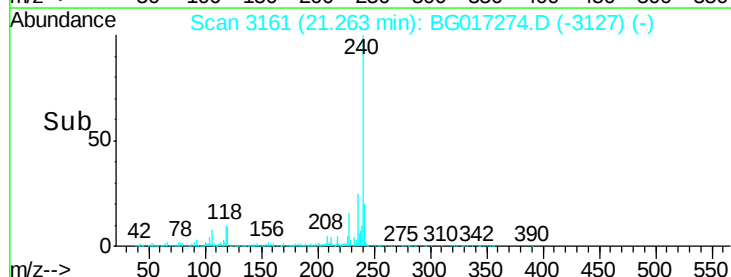
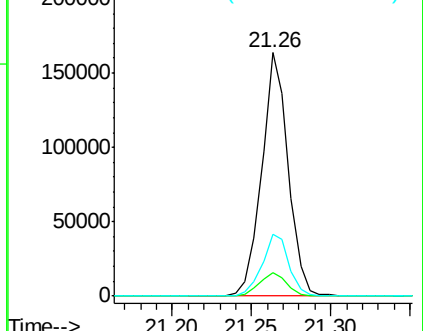
236 25.6 20.5 30.7

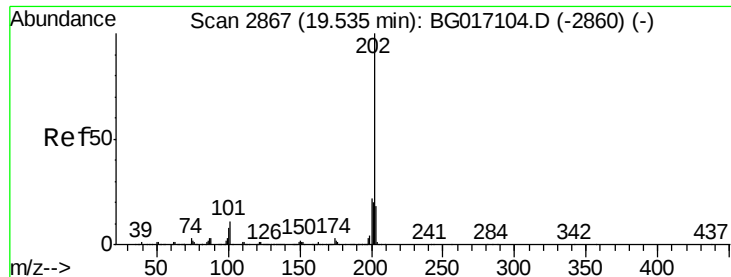


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

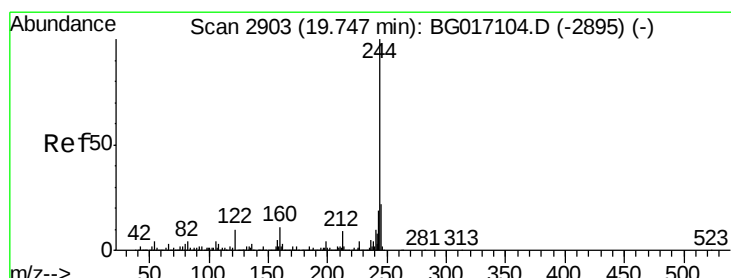
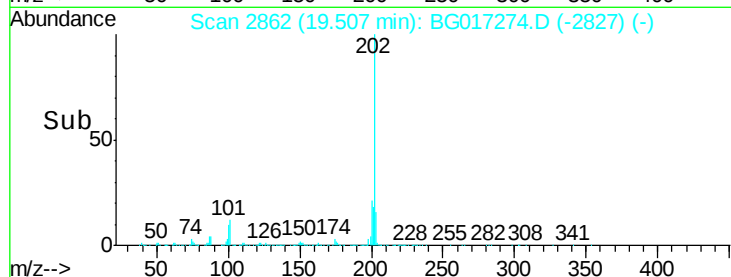
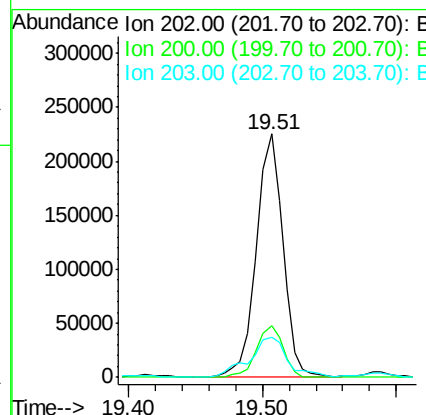
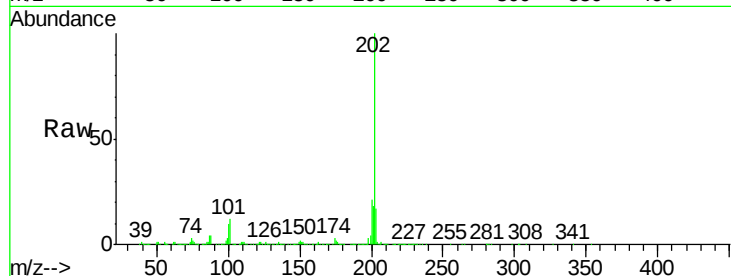




#77
 Pyrene
 Concen: 26.38 ng
 RT: 19.51 min Scan# 2862
 Delta R.T. 0.00 min
 Lab File: BG017274.D
 Acq: 23 May 2015 9:40

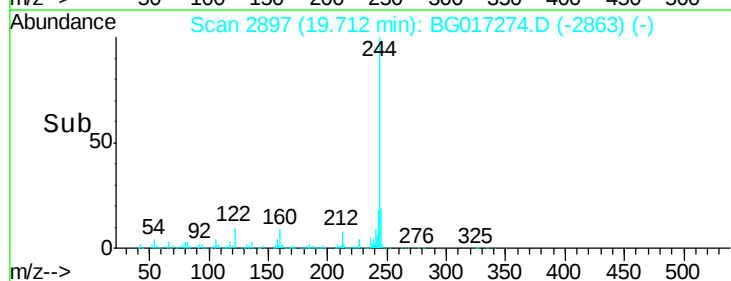
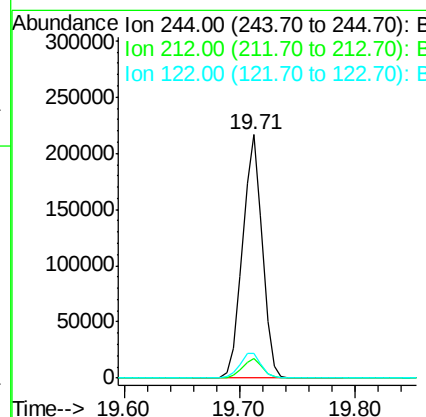
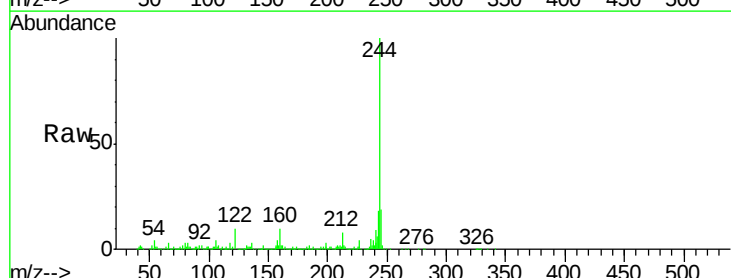
Instrument :
 BNA_G
 ClientSampleId :
 SB-29D

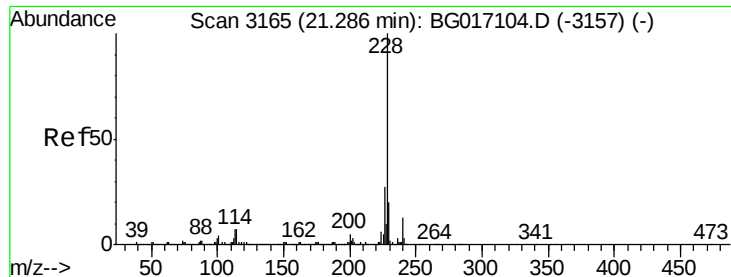
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.8	26.8
203	16.5	14.4	21.6



#78
 Terphenyl-d14
 Concen: 27.93 ng
 RT: 19.71 min Scan# 2897
 Delta R.T. -0.00 min
 Lab File: BG017274.D
 Acq: 23 May 2015 9:40

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.2	7.0	10.4
122	10.4	8.4	12.6





#80

Benzo(a)anthracene

Concen: 11.97 ng

RT: 21.25 min Scan# 3159

Delta R.T. 0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

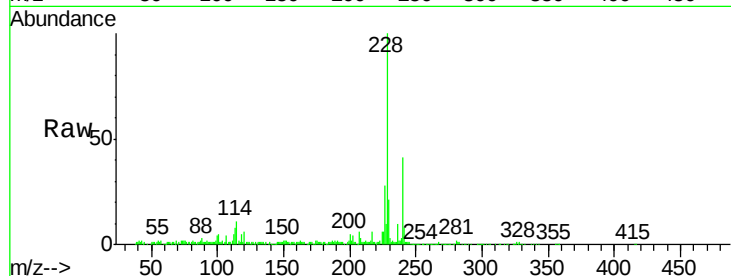
Tgt Ion:228 Resp: 131056

Ion Ratio Lower Upper

228 100

226 27.5 21.7 32.5

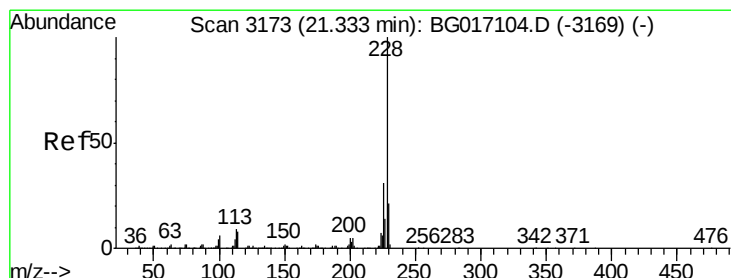
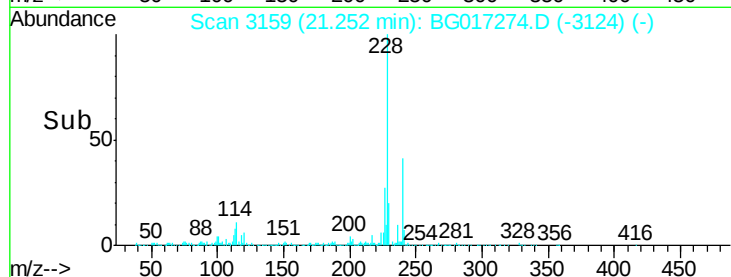
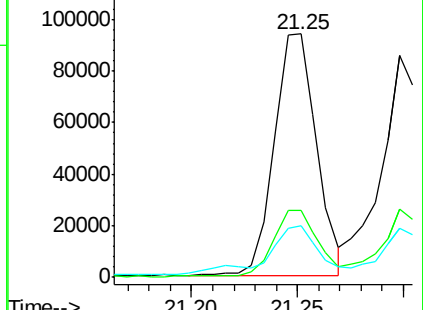
229 21.4 16.1 24.1



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: 10.88 ng

RT: 21.30 min Scan# 3167

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

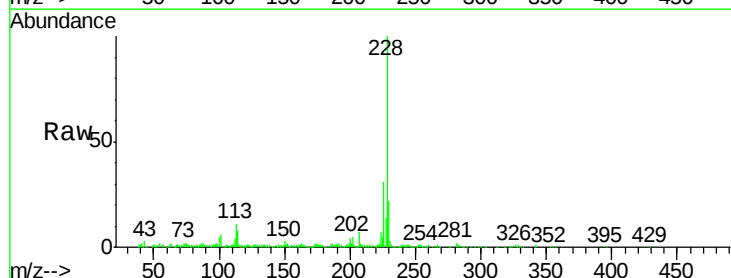
Tgt Ion:228 Resp: 110914

Ion Ratio Lower Upper

228 100

226 30.5 24.8 37.2

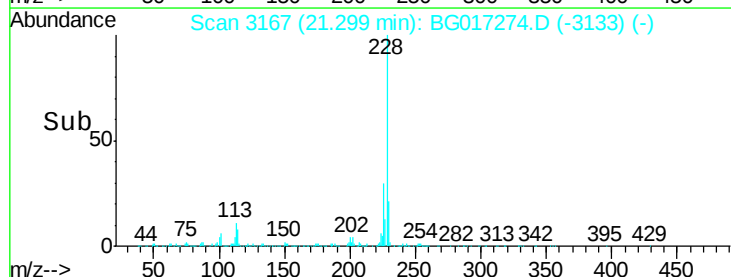
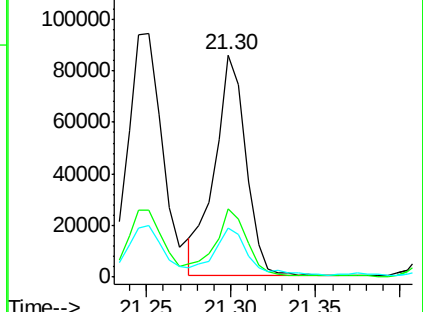
229 22.1 17.0 25.6

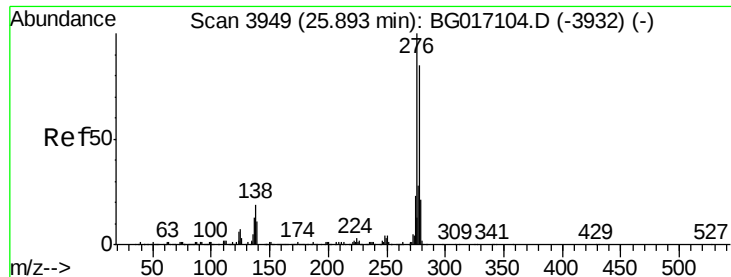


Abundance Ion 228.00 (227.70 to 228.70): E

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: 4.73 ng

RT: 25.81 min Scan# 3934

Delta R.T. -0.01 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampled :

SB-29D

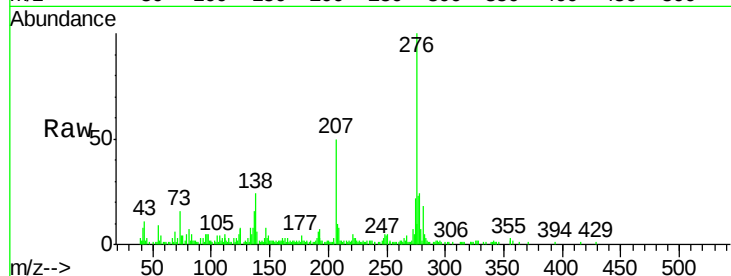
Tgt Ion:276 Resp: 57685

Ion Ratio Lower Upper

276 100

138 23.9 16.0 24.0

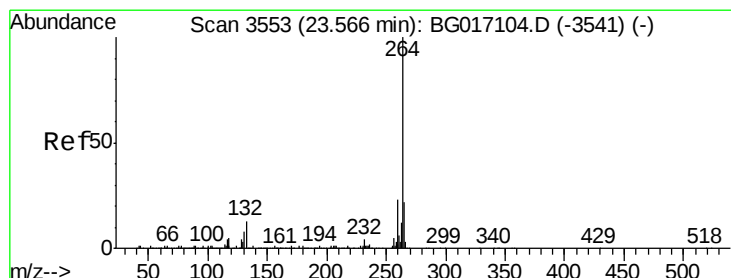
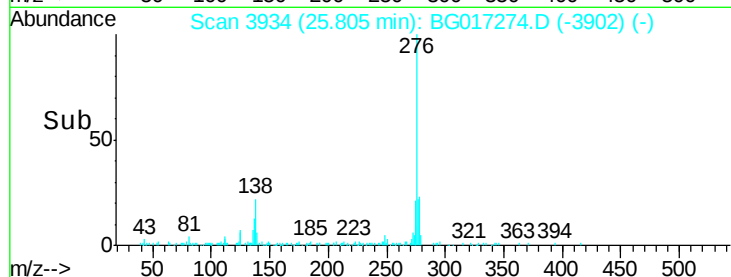
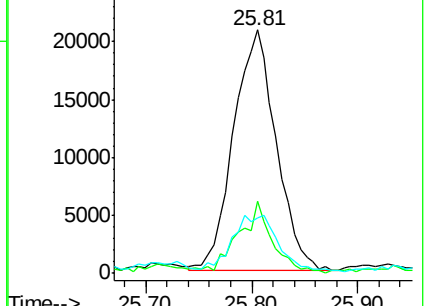
277 25.3 20.9 31.3



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: 23.51 min Scan# 3544

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

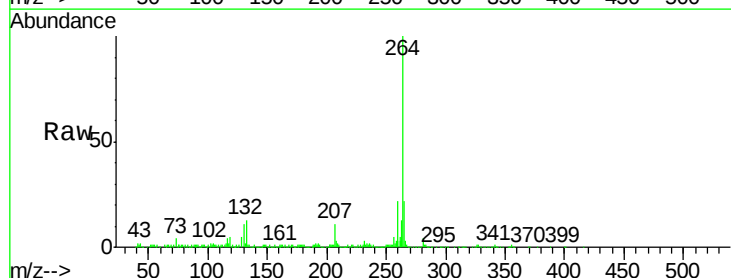
Tgt Ion:264 Resp: 194109

Ion Ratio Lower Upper

264 100

260 22.4 18.0 27.0

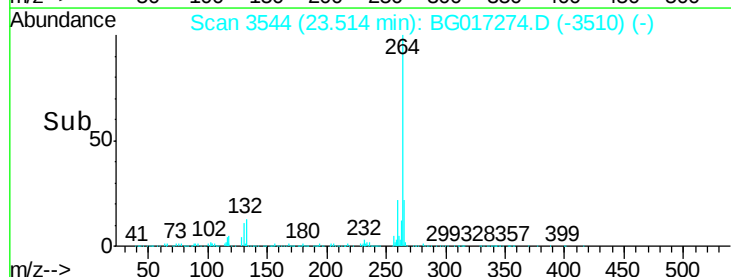
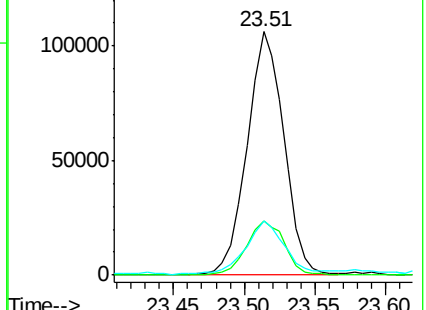
265 22.2 17.4 26.0

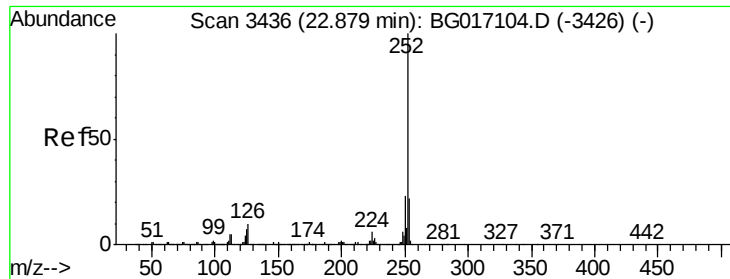


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 14.84 ng

RT: 22.84 min Scan# 3429

Delta R.T. 0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

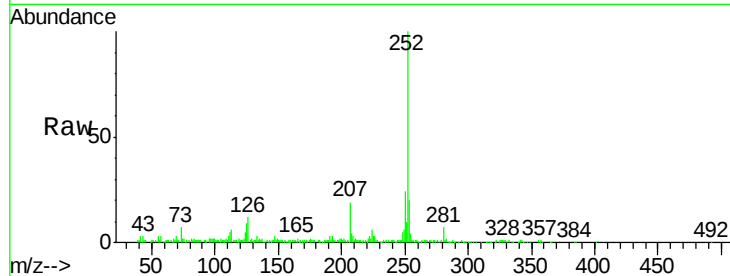
Tgt Ion:252 Resp: 167905

Ion Ratio Lower Upper

252 100

253 20.3 17.4 26.2

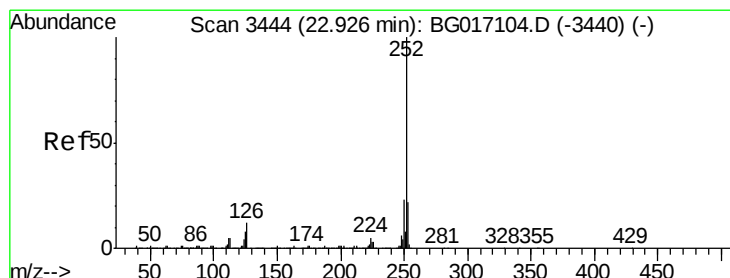
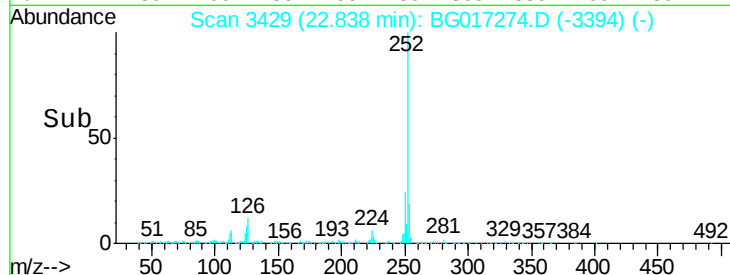
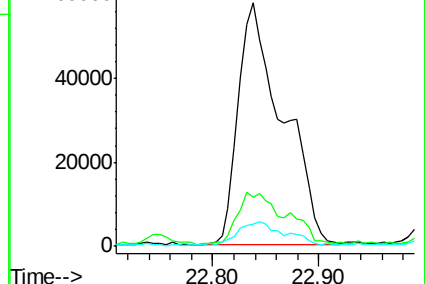
125 9.1 5.9 8.9#



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



#88

Benzo(k)fluoranthene

Concen: 15.63 ng

RT: 22.84 min Scan# 3429

Delta R.T. -0.04 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

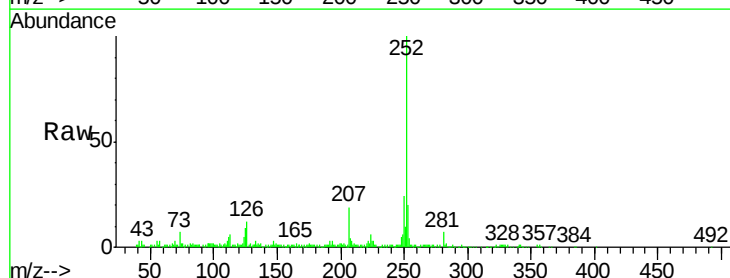
Tgt Ion:252 Resp: 167905

Ion Ratio Lower Upper

252 100

253 20.3 17.8 26.6

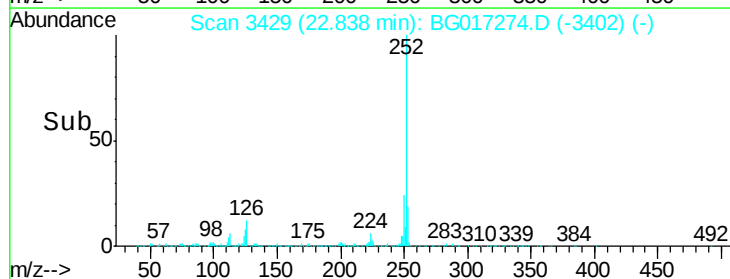
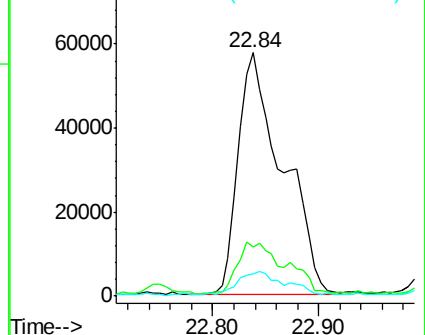
125 9.1 6.4 9.6

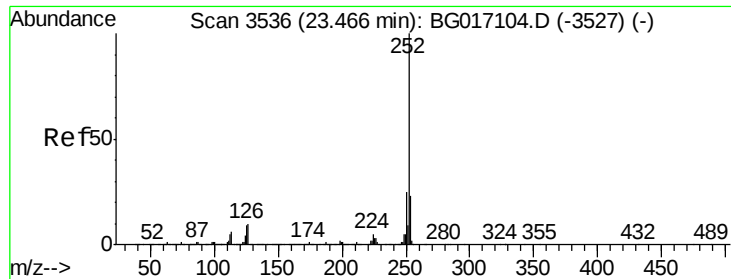


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 9.98 ng

RT: 23.41 min Scan# 3527

Delta R.T. -0.00 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

Instrument :

BNA_G

ClientSampleId :

SB-29D

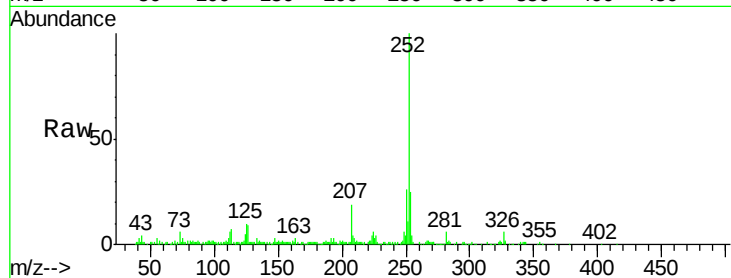
Tgt Ion:252 Resp: 103692

Ion Ratio Lower Upper

252 100

253 25.3 18.4 27.6

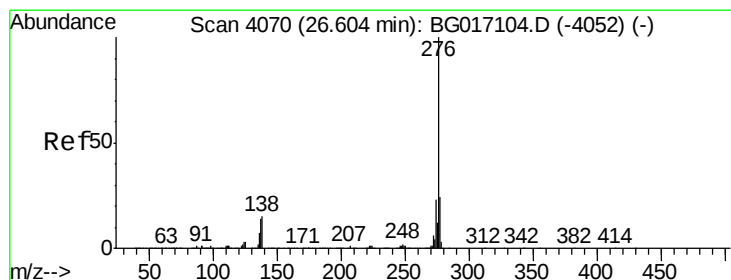
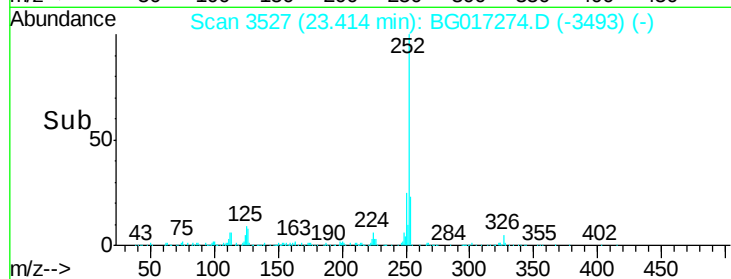
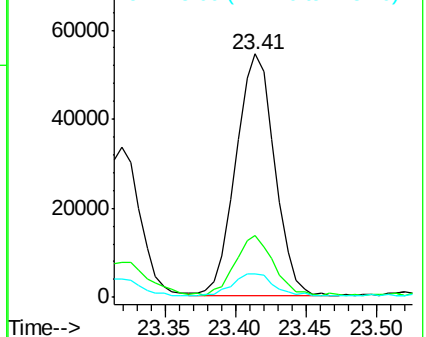
125 9.8 7.2 10.8



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



#91

Benzo(g,h,i)perylene

Concen: 5.67 ng

RT: 26.51 min Scan# 4054

Delta R.T. -0.01 min

Lab File: BG017274.D

Acq: 23 May 2015 9:40

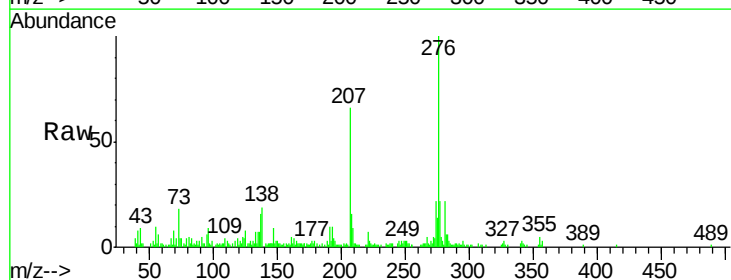
Tgt Ion:276 Resp: 56923

Ion Ratio Lower Upper

276 100

277 22.2 18.9 28.3

138 18.6 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

