

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072015\
 Data File : BG017997.D
 Acq On : 20 Jul 2015 20:02
 Operator : TP/UM
 Sample : G2994-27
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Jul 21 01:12:03 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG071715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 18 01:50:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	111540	20.00	ng	0.00
21) Naphthalene-d8	10.37	136	462874	20.00	ng	0.00
38) Acenaphthene-d10	14.25	164	262673	20.00	ng	0.00
63) Phenanthrene-d10	17.00	188	503156	20.00	ng	0.00
75) Chrysene-d12	21.20	240	522947	20.00	ng	0.00
86) Perylene-d12	23.42	264	529668	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.20	112	983376	153.80	ng	0.01
7) Phenol-d6	6.78	99	1256783	150.03	ng	0.01
23) Nitrobenzene-d5	8.75	82	748262	104.70	ng	0.00
41) 2,4,6-Tribromophenol	15.74	330	477280	179.34	ng	0.00
44) 2-Fluorobiphenyl	12.86	172	1503258	99.17	ng	0.00
78) Terphenyl-d14	19.65	244	1816648	87.51	ng	0.00

Target Compounds

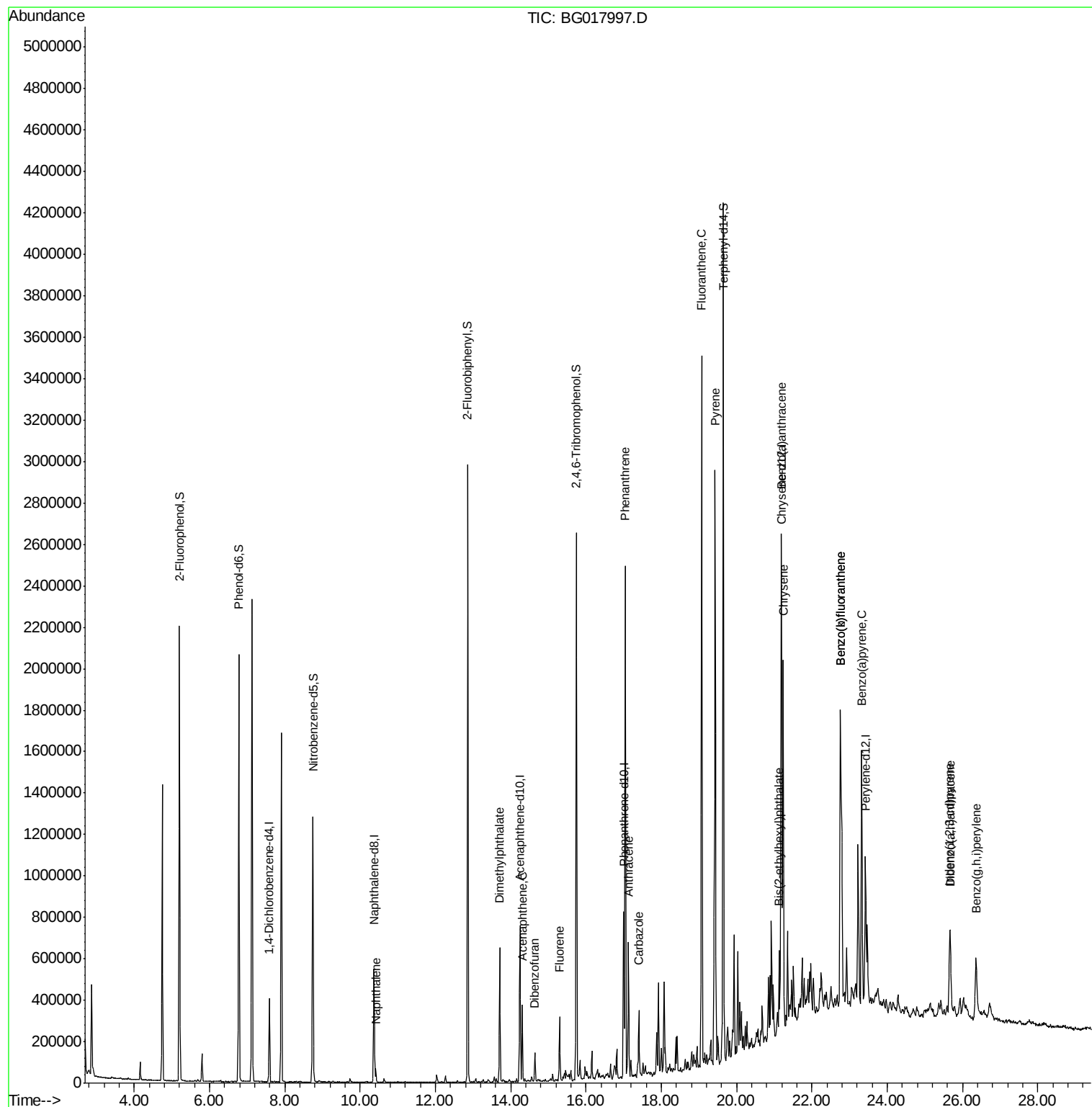
						Qvalue
31) Naphthalene	10.41	128	57843	2.55	ng	99
32) Benzoic acid	9.70	122	180	Below	Cal #	22
49) Dimethylphthalate	13.70	163	415410	22.77	ng	100
51) Acenaphthene	14.31	154	137354	9.13	ng	95
53) 2,4-Dinitrophenol	14.22	184	123	Below	Cal #	1
54) Dibenzofuran	14.65	168	80365	3.70	ng	98
57) Fluorene	15.30	166	130081	6.97	ng	97
64) 4,6-Dinitro-2-methylphenol	15.43	198	59	Below	Cal #	1
70) Phenanthrene	17.04	178	1423578	54.85	ng	97
71) Anthracene	17.13	178	394690	15.63	ng	99
72) Carbazole	17.41	167	194684	8.16	ng	98
74) Fluoranthene	19.08	202	1999113	70.36	ng	96
77) Pvrene	19.43	202	1743686	59.79	ng	96
80) Benzo(a)anthracene	21.18	228	1057234	38.28	ng	99
82) Chrysene	21.24	228	959729	36.48	ng	97
83) Bis(2-ethylhexyl)phthalate	21.13	149	144616	8.04	ng #	99
85) Indeno(1,2,3-cd)pvrene	25.67	276	460373	14.47	ng #	86
87) Benzo(b)fluoranthene	22.76	252	1733306	59.81	ng	98
88) Benzo(k)fluoranthene	22.76	252	1733306	59.90	ng	99
89) Benzo(a)pvrene	23.33	252	899176	33.30	ng	98
90) Dibenzo(a,h)anthracene	25.69	278	106704	3.81	ng	96
91) Benzo(g,h,i)perylene	26.36	276	416666	15.43	ng	94

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

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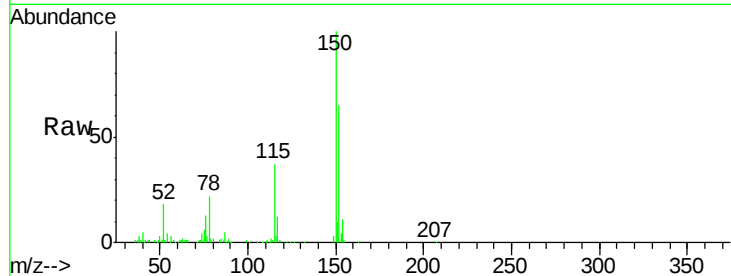


#1

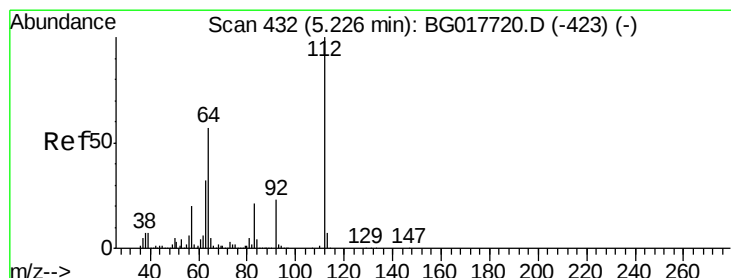
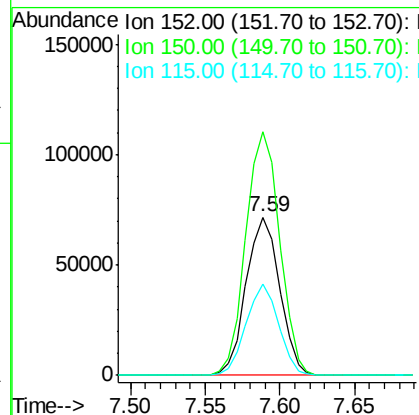
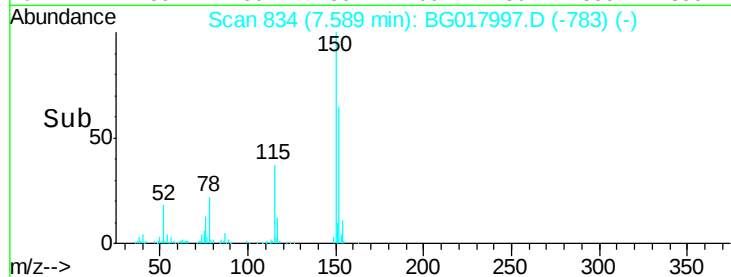
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.59 min Scan# 834
Delta R.T. 0.00 min
Lab File: BG017997.D
Acq: 20 Jul 2015 20:02

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	119.1	178.7
115	57.6	47.0	70.4



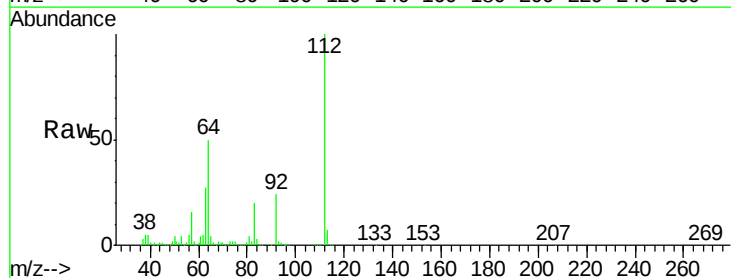
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



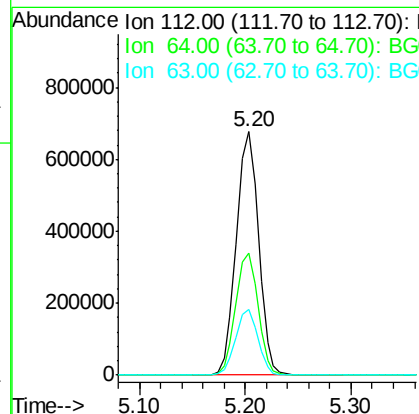
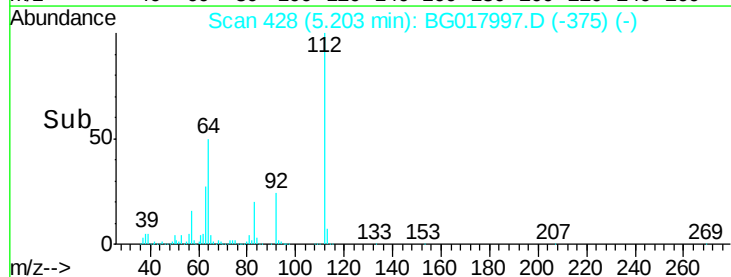
#5

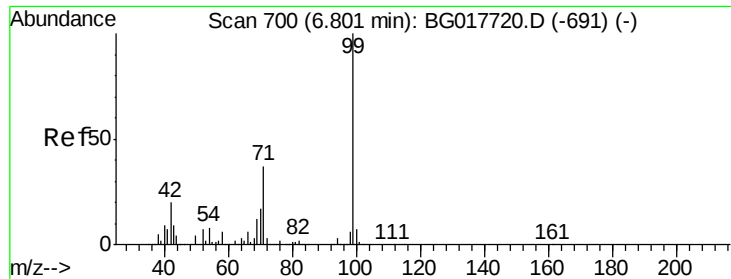
2-Fluorophenol
Concen: 153.80 ng
RT: 5.20 min Scan# 428
Delta R.T. 0.01 min
Lab File: BG017997.D
Acq: 20 Jul 2015 20:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.3	45.4	68.0
63	26.8	25.3	37.9



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BG0
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 150.03 ng

RT: 6.78 min Scan# 696

Delta R.T. 0.01 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampled :

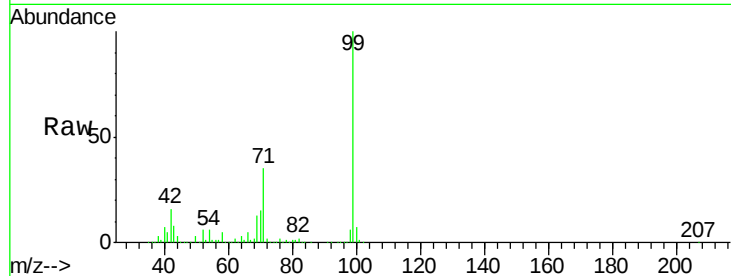
Tot Ion: 99 Resp: 1256783

Ion Ratio Lower Upper

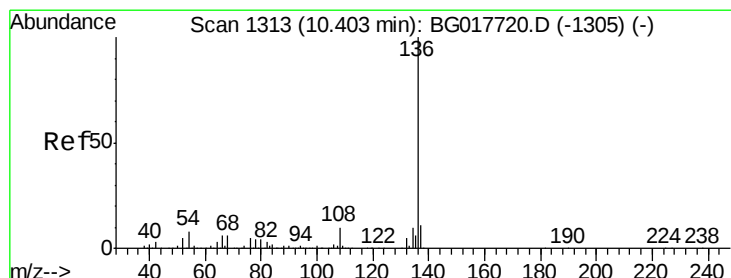
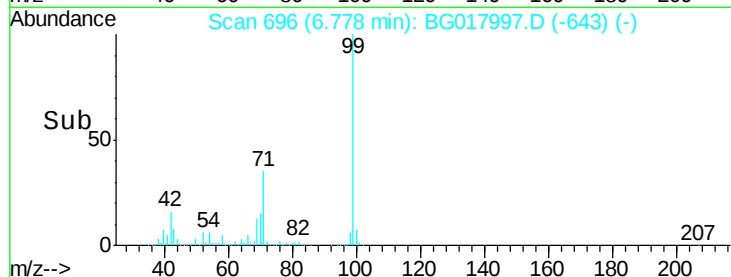
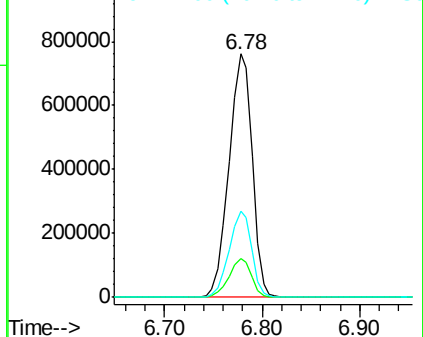
99 100

42 16.0 16.2 24.4#

71 35.2 29.5 44.3



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: 10.37 min Scan# 1307

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Tgt Ion: 136 Resp: 462874

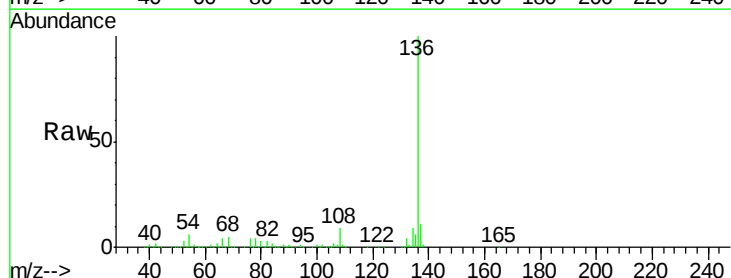
Ion Ratio Lower Upper

136 100

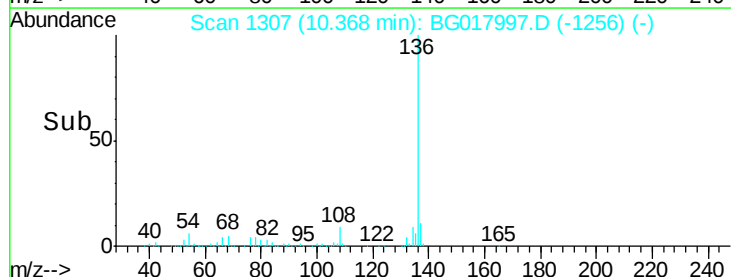
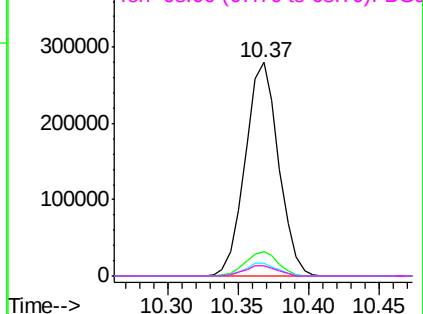
137 11.3 8.8 13.2

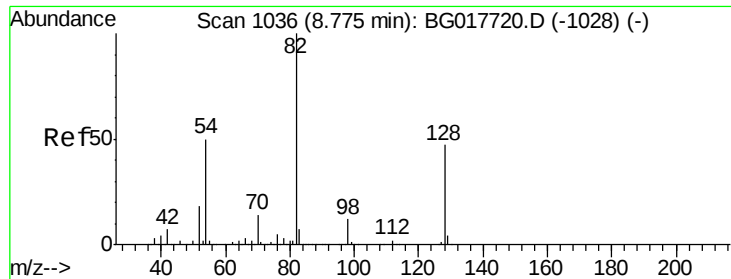
54 5.8 6.6 9.8#

68 4.9 5.1 7.7#



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

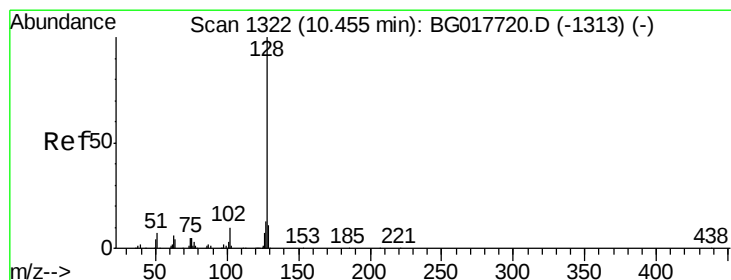
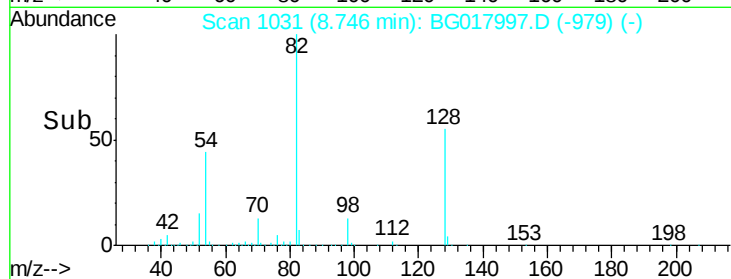
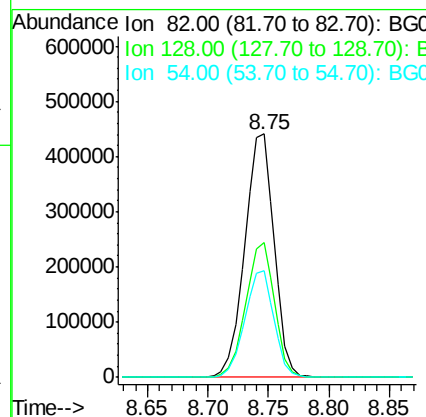
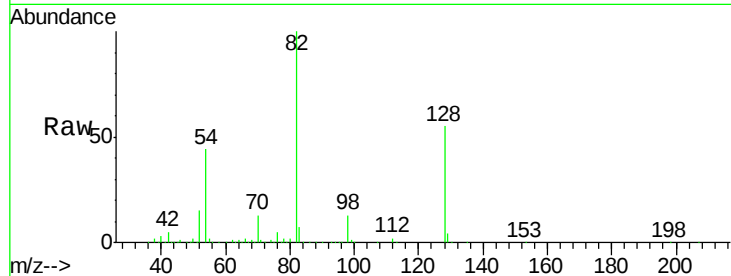




#23
 Nitrobenzene-d5
 Concen: 104.70 ng
 RT: 8.75 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: BG017997.D
 Acq: 20 Jul 2015 20:02

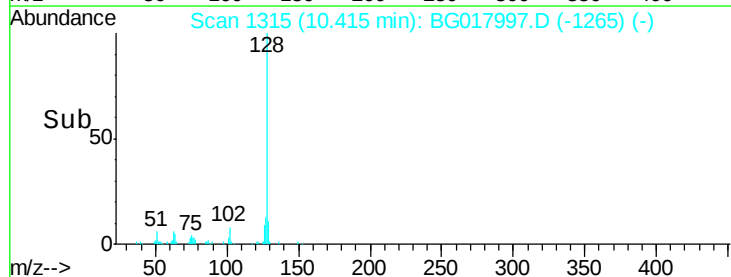
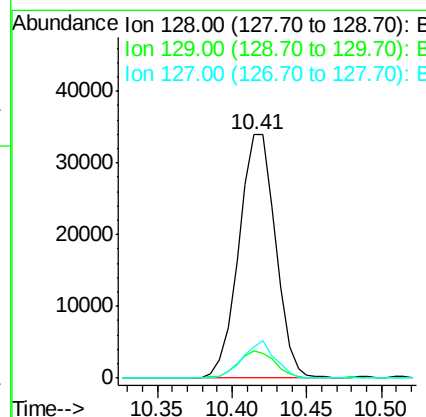
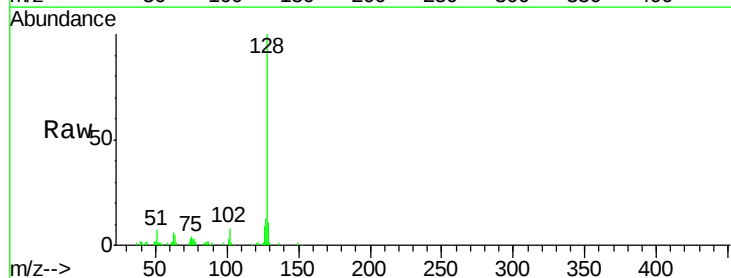
Instrument :
 BNA_G
 ClientSampleId :

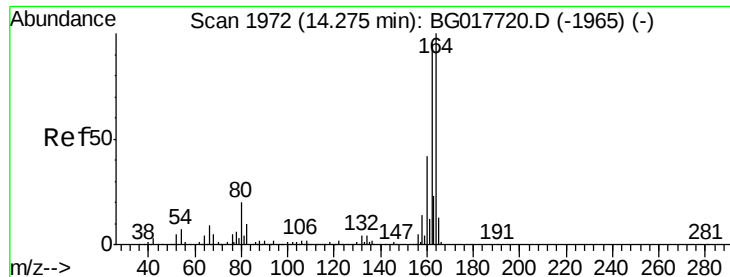
Tot Ion	82	Resp	748262
Ion Ratio	Lower	Upper	
82	100		
128	55.3	37.8	56.6
54	43.8	39.9	59.9



#31
 Naphthalene
 Concen: 2.55 ng
 RT: 10.41 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: BG017997.D
 Acq: 20 Jul 2015 20:02

Tgt Ion	128	Resp	57843
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.0	13.6
127	12.7	10.7	16.1

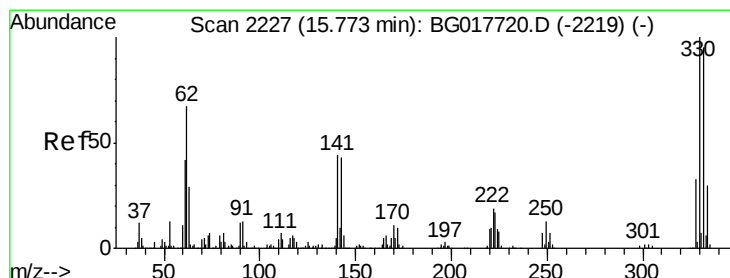
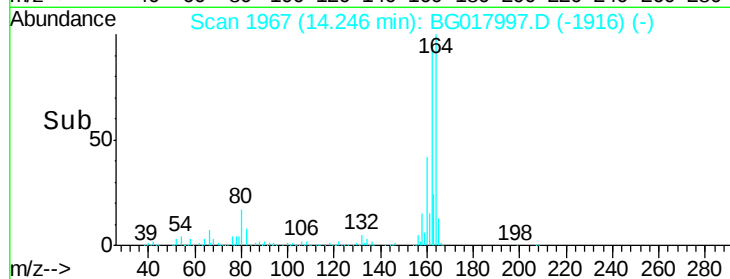
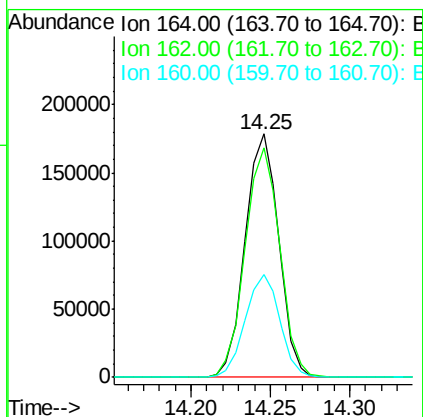
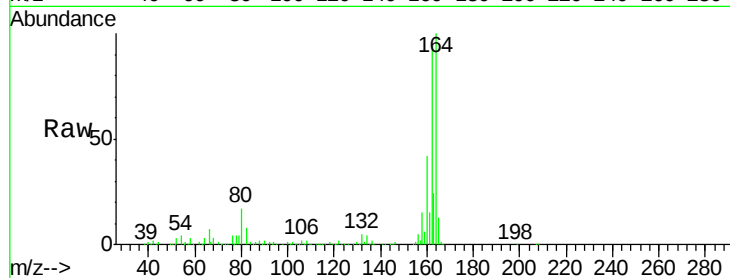




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.25 min Scan# 1967
Delta R.T. 0.00 min
Lab File: BG017997.D
Acq: 20 Jul 2015 20:02

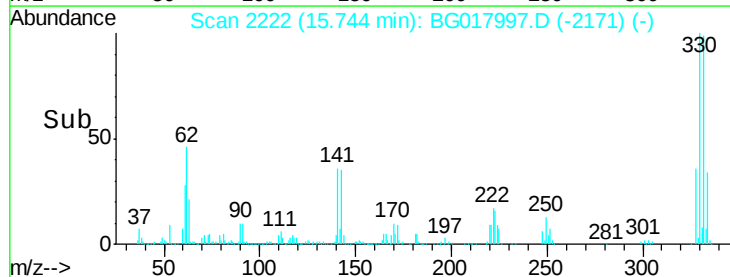
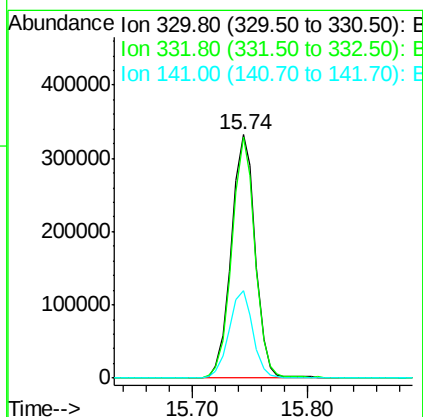
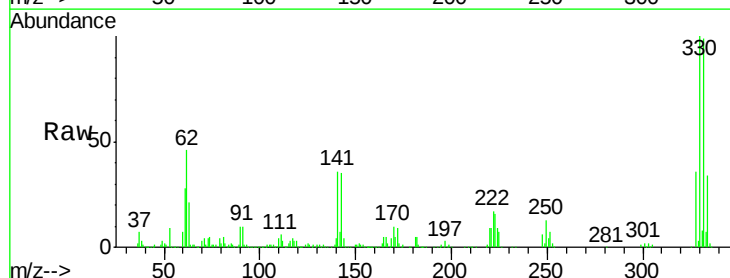
Instrument :
BNA_G
ClientSampleId :

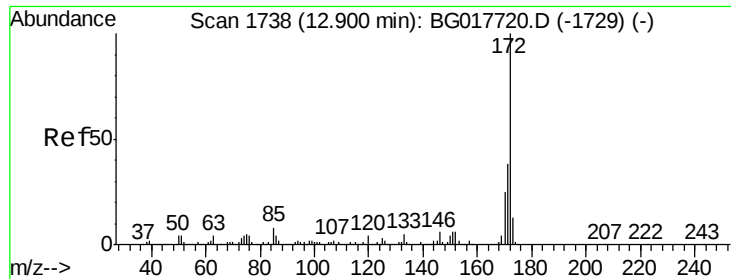
Tot Ion:164 Resp: 262673
Ion Ratio Lower Upper
164 100
162 94.5 76.3 114.5
160 42.3 33.7 50.5



#41
2,4,6-Tribromophenol
Concen: 179.34 ng
RT: 15.74 min Scan# 2222
Delta R.T. 0.00 min
Lab File: BG017997.D
Acq: 20 Jul 2015 20:02

Tgt Ion:330 Resp: 477280
Ion Ratio Lower Upper
330 100
332 96.2 76.8 115.2
141 35.9 38.0 57.0#

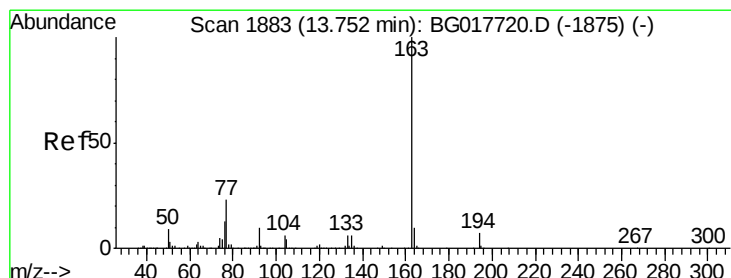
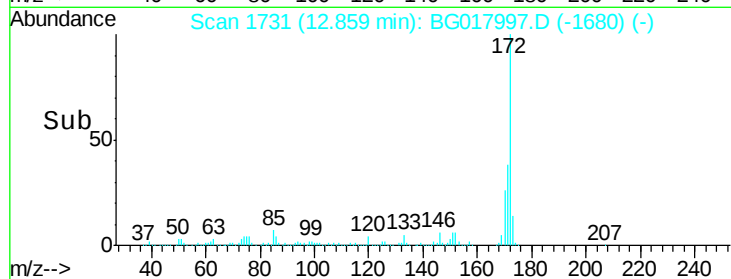
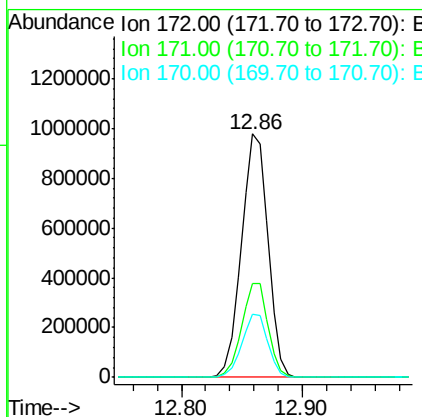
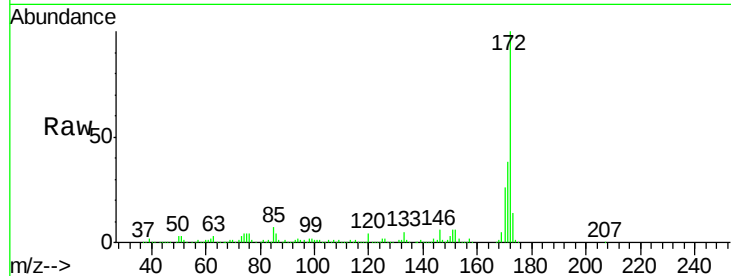




#44
2-Fluorobiphenyl
Concen: 99.17 ng
RT: 12.86 min Scan# 1731
Delta R.T. 0.00 min
Lab File: BG017997.D
Acq: 20 Jul 2015 20:02

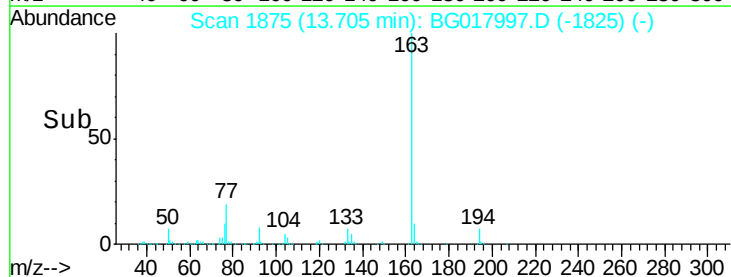
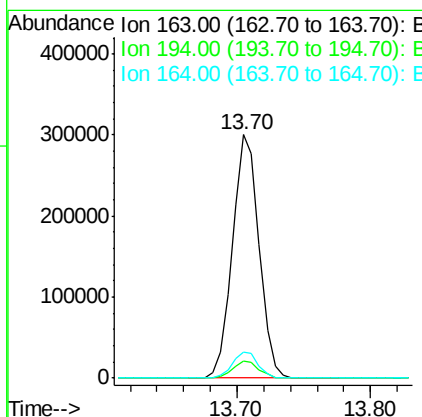
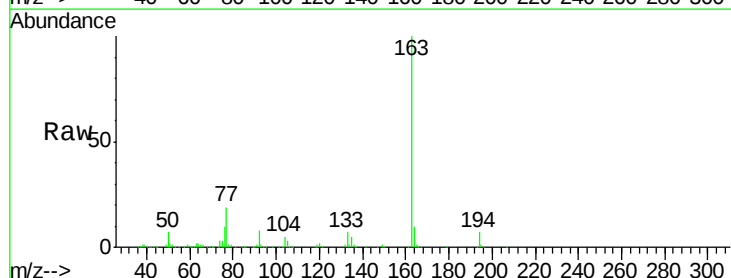
Instrument :
BNA_G
ClientSampleId :

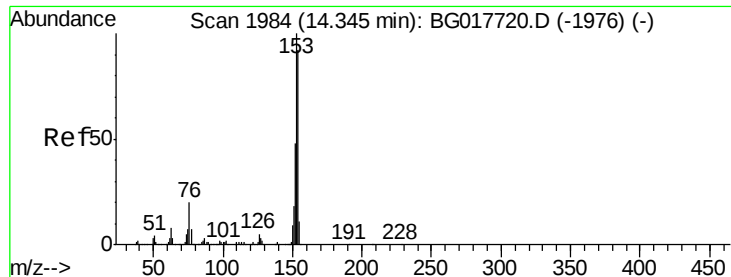
Tot Ion:172 Resp: 1503258
Ion Ratio Lower Upper
172 100
171 38.5 30.7 46.1
170 25.7 19.7 29.5



#49
Dimethylphthalate
Concen: 22.77 ng
RT: 13.70 min Scan# 1875
Delta R.T. -0.01 min
Lab File: BG017997.D
Acq: 20 Jul 2015 20:02

Tgt Ion:163 Resp: 415410
Ion Ratio Lower Upper
163 100
194 6.9 5.8 8.6
164 10.5 8.3 12.5





#51

Acenaphthene

Concen: 9.13 ng

RT: 14.31 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampled :

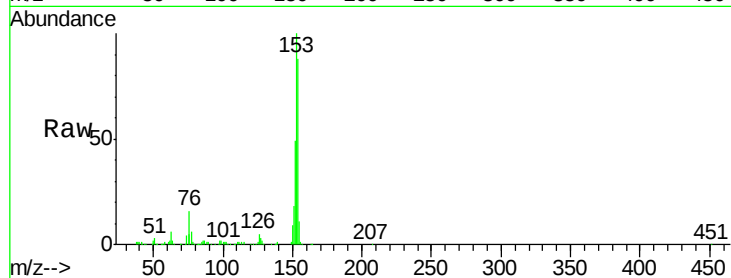
Tot Ion:154 Resp: 137354

Ion Ratio Lower Upper

154 100

153 113.6 87.0 130.4

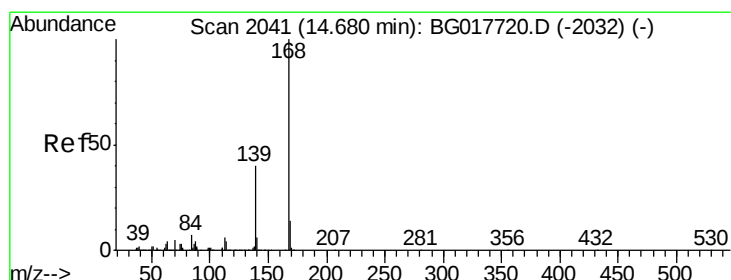
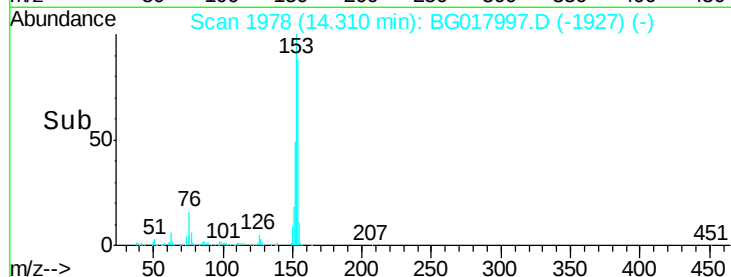
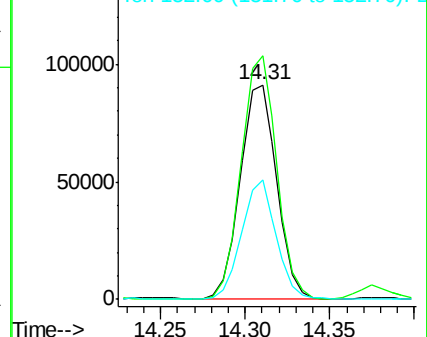
152 55.6 41.4 62.0



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: 3.70 ng

RT: 14.65 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

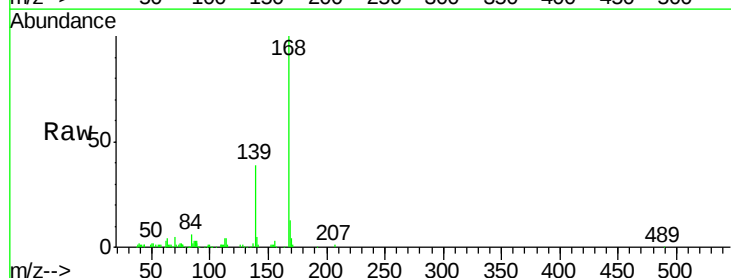
Tgt Ion:168 Resp: 80365

Ion Ratio Lower Upper

168 100

139 38.9 32.2 48.2

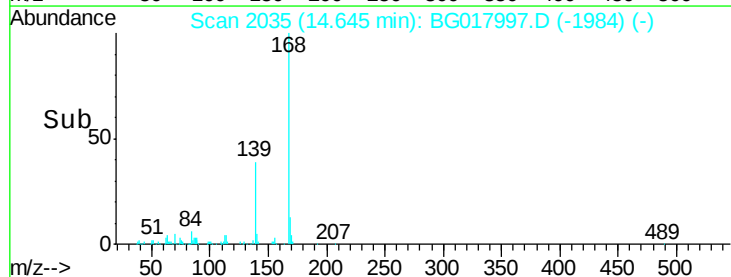
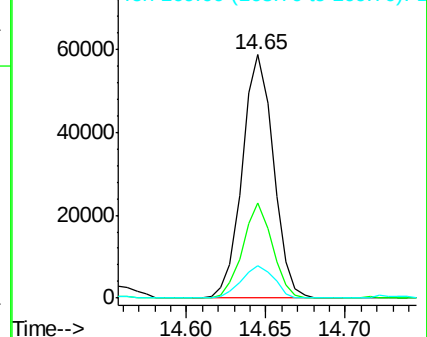
169 13.1 11.3 16.9

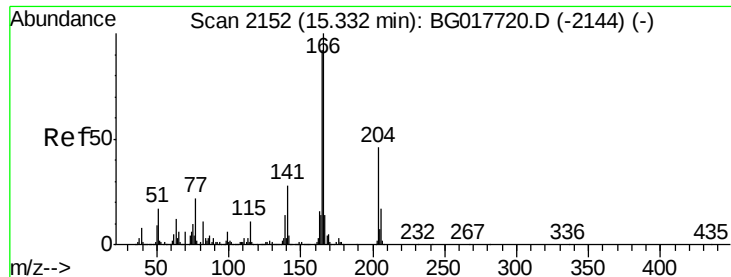


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

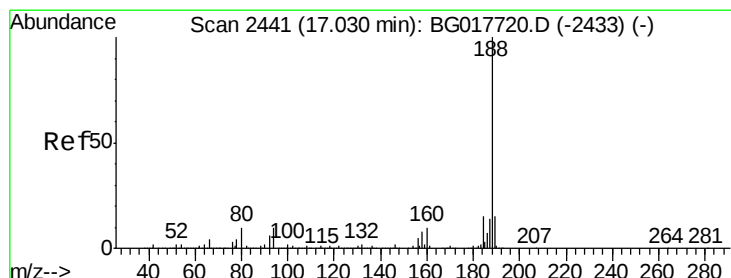
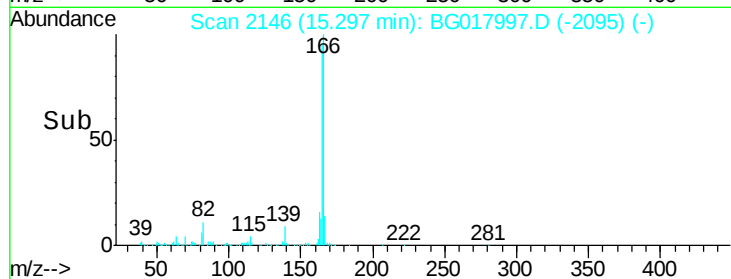
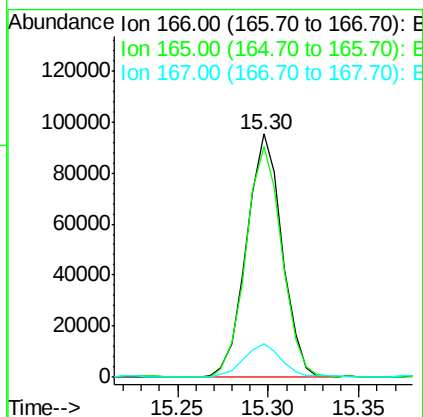
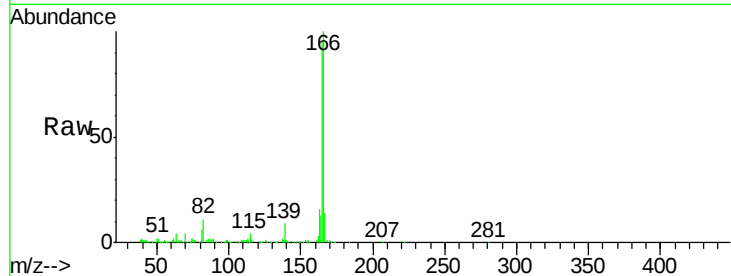




#57
 Fluorene
 Concen: 6.97 ng
 RT: 15.30 min Scan# 2146
 Delta R.T. 0.00 min
 Lab File: BG017997.D
 Acq: 20 Jul 2015 20:02

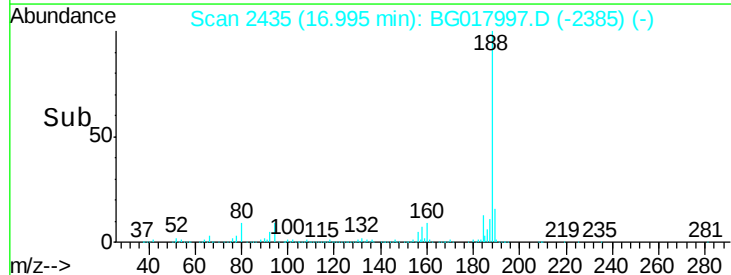
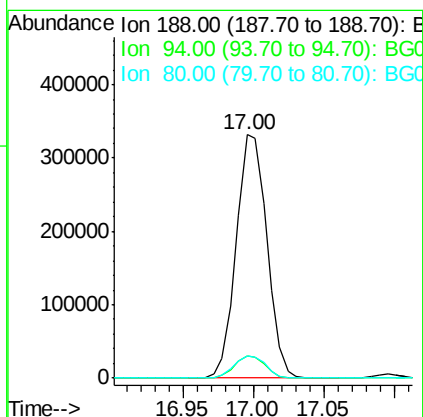
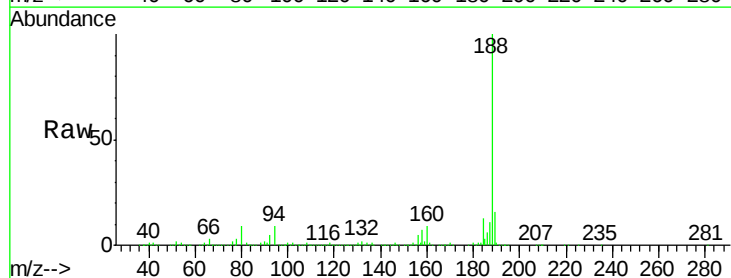
Instrument :
 BNA_G
 ClientSampleId :

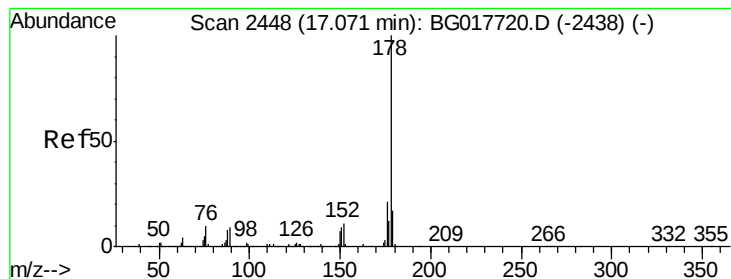
Tot Ion:166 Resp: 130081
 Ion Ratio Lower Upper
 166 100
 165 94.6 73.4 110.0
 167 14.0 11.0 16.6



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.00 min Scan# 2435
 Delta R.T. -0.01 min
 Lab File: BG017997.D
 Acq: 20 Jul 2015 20:02

Tgt Ion:188 Resp: 503156
 Ion Ratio Lower Upper
 188 100
 94 9.0 8.2 12.2
 80 9.2 8.2 12.4





#70

Phenanthrene

Concen: 54.85 ng

RT: 17.04 min Scan# 2443

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampleId :

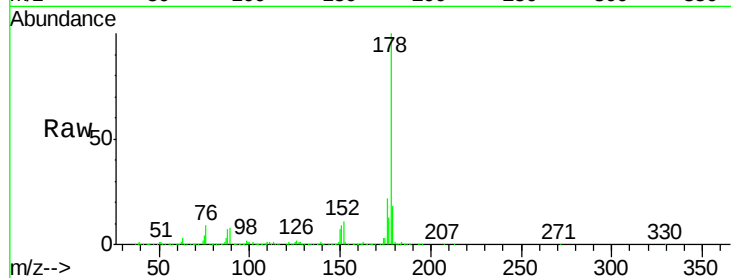
Tot Ion:178 Resp: 1423578

Ion Ratio Lower Upper

178 100

176 22.5 16.5 24.7

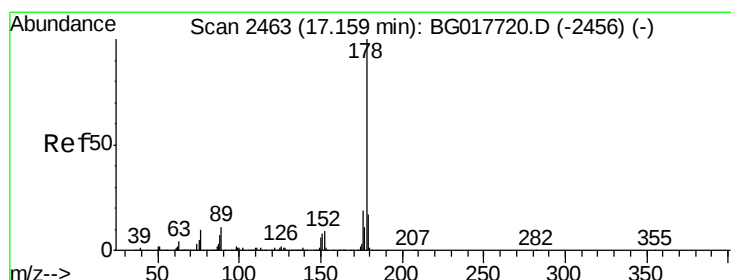
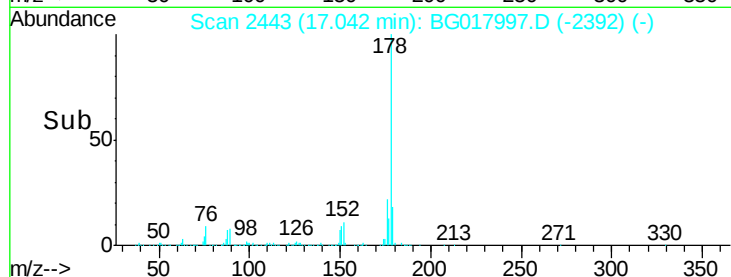
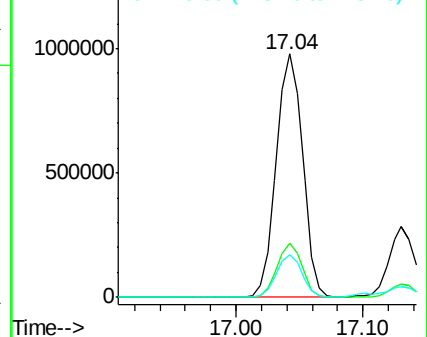
179 17.7 13.5 20.3



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: 15.63 ng

RT: 17.13 min Scan# 2458

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

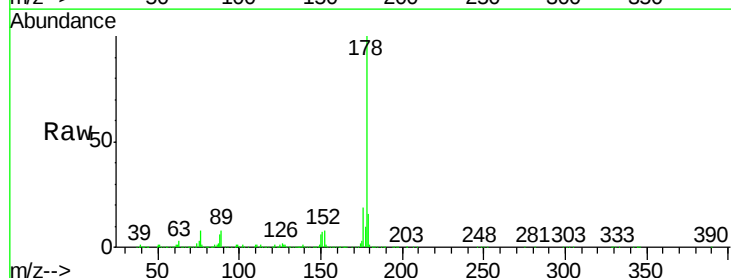
Tgt Ion:178 Resp: 394690

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

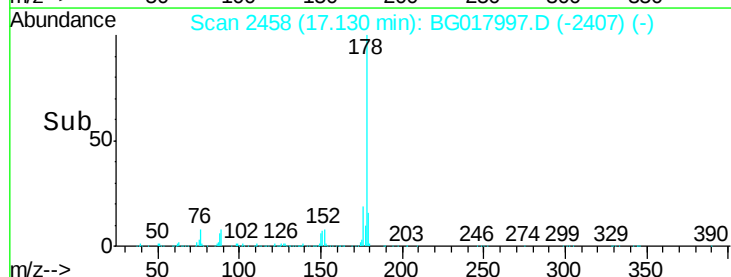
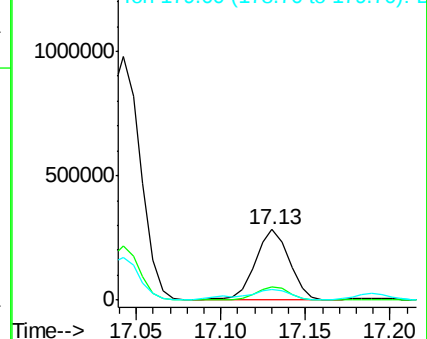
179 15.7 13.6 20.4

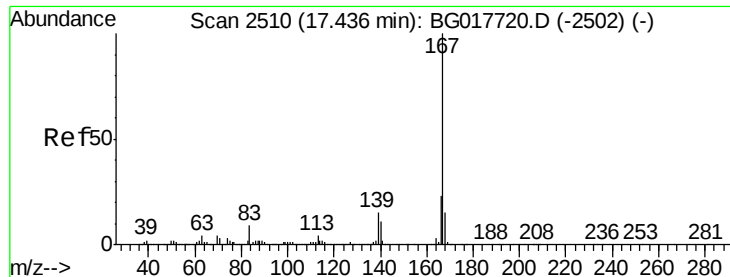


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 8.16 ng

RT: 17.41 min Scan# 2505

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampleId :

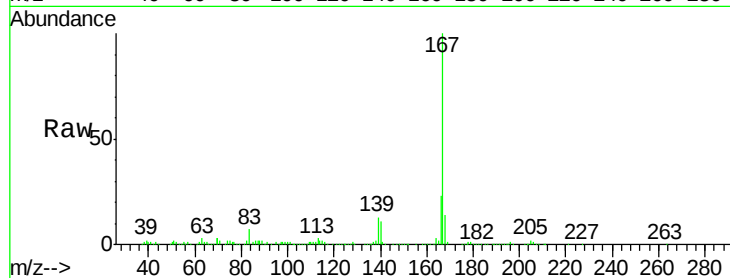
Tot Ion:167 Resp: 194684

Ion Ratio Lower Upper

167 100

166 22.9 18.3 27.5

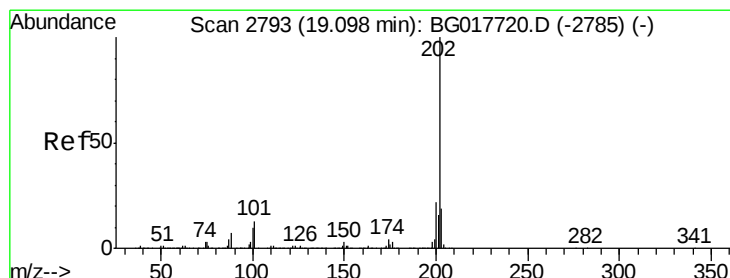
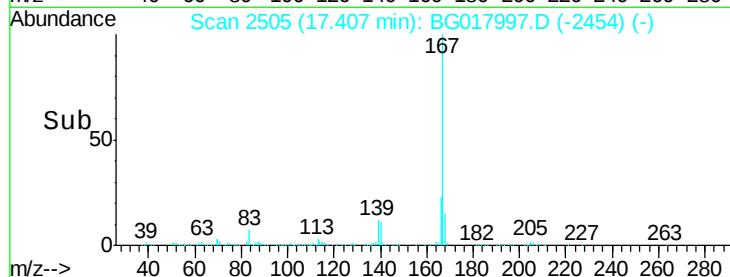
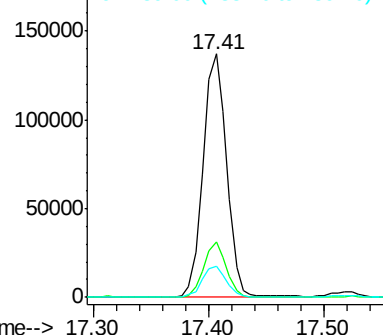
139 12.8 11.9 17.9



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 70.36 ng

RT: 19.08 min Scan# 2789

Delta R.T. 0.01 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

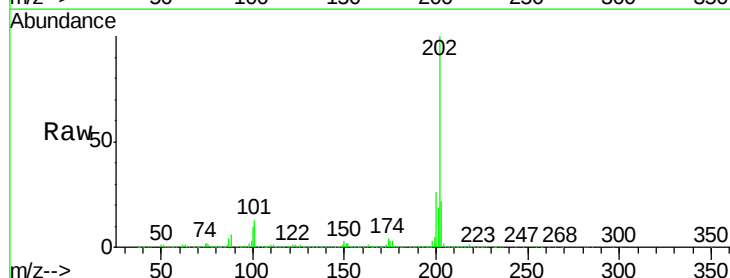
Tgt Ion:202 Resp: 1999113

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.3

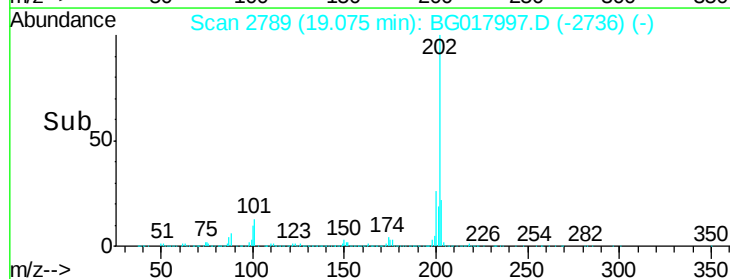
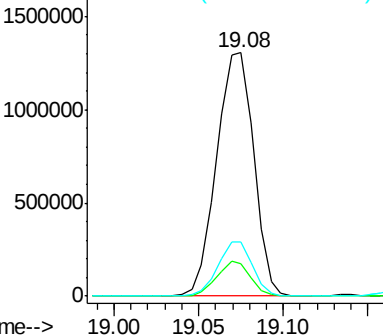
203 22.4 0.0 39.5

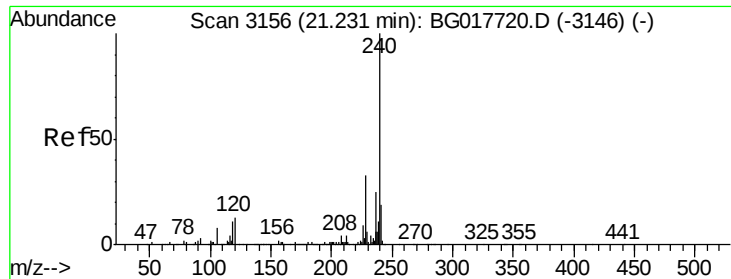


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.20 min Scan# 3151

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampled :

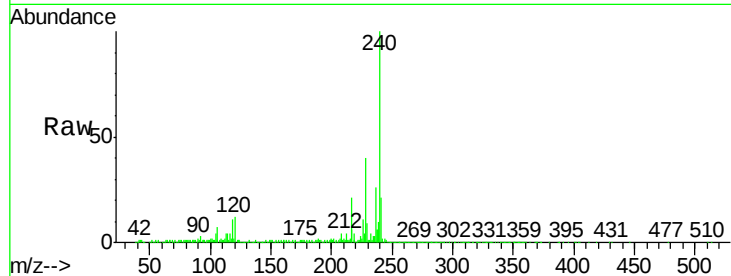
Tot Ion:240 Resp: 522947

Ion Ratio Lower Upper

240 100

120 11.9 10.8 16.2

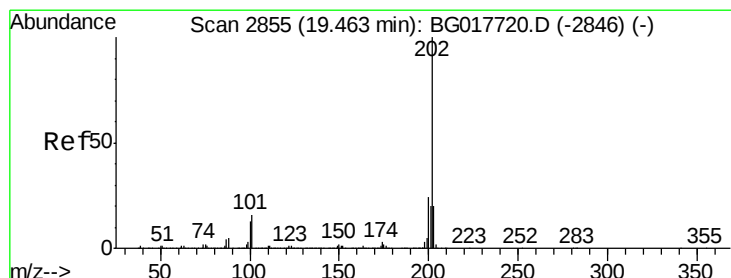
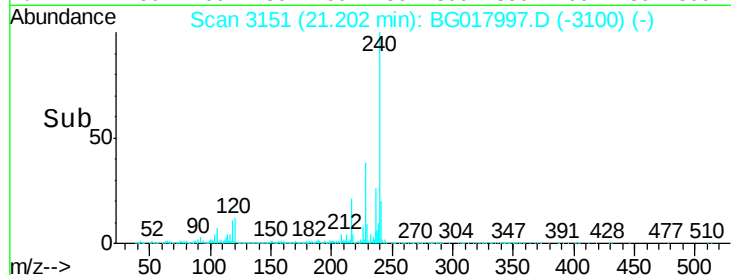
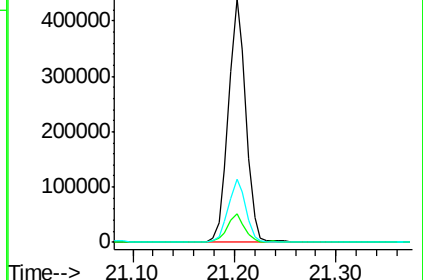
236 26.2 20.0 30.0



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: 59.79 ng

RT: 19.43 min Scan# 2850

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

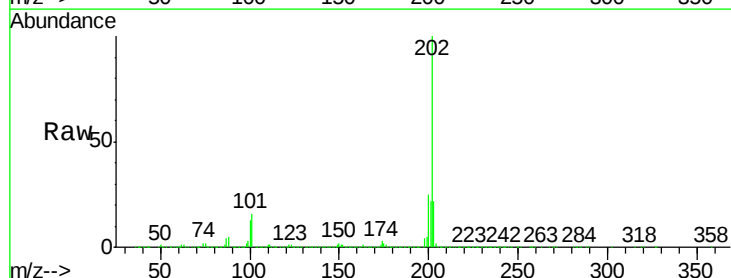
Tgt Ion:202 Resp: 1743686

Ion Ratio Lower Upper

202 100

200 24.7 18.8 28.2

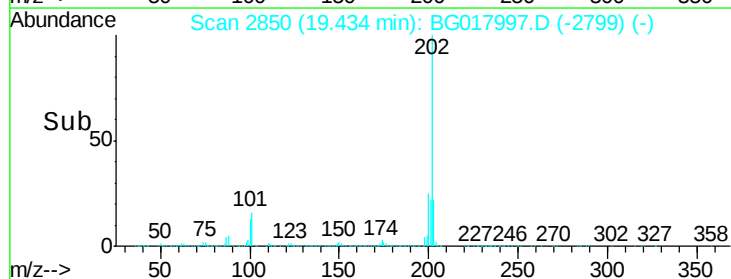
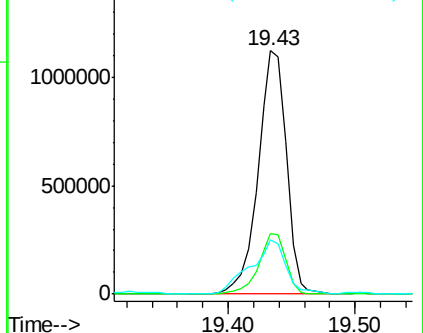
203 22.2 15.9 23.9

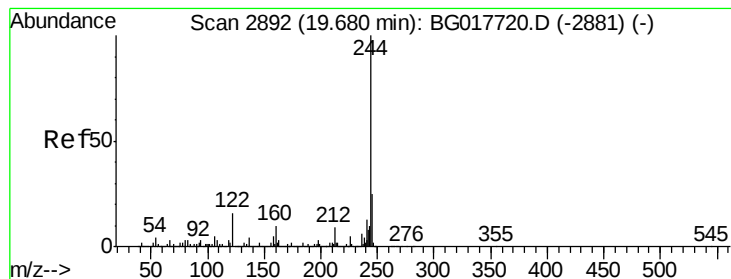


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 87.51 ng

RT: 19.65 min Scan# 2886

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampleId :

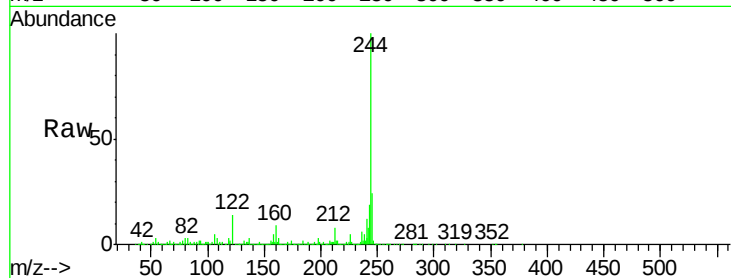
Tot Ion:244 Resp: 1816648

Ion Ratio Lower Upper

244 100

212 8.5 7.2 10.8

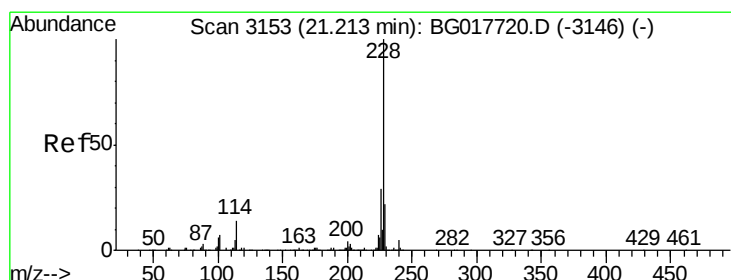
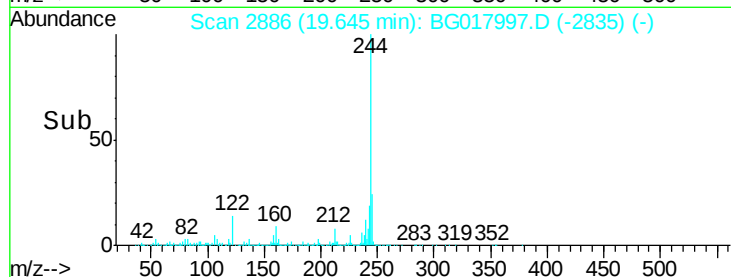
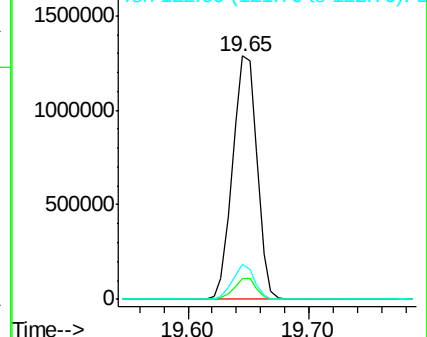
122 14.3 12.8 19.2



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: 38.28 ng

RT: 21.18 min Scan# 3148

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

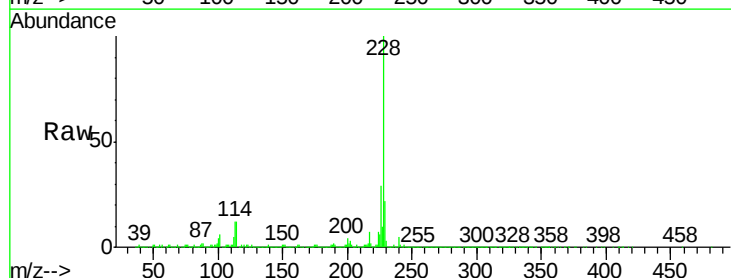
Tgt Ion:228 Resp: 1057234

Ion Ratio Lower Upper

228 100

226 29.2 23.1 34.7

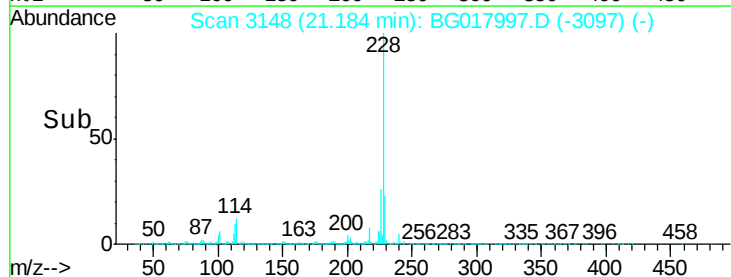
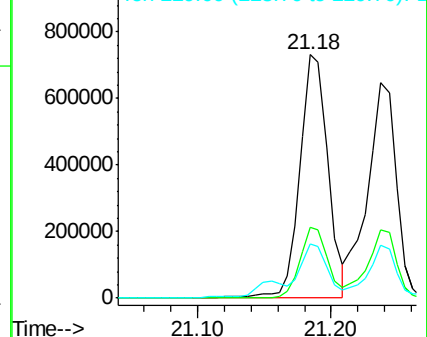
229 22.4 17.4 26.0

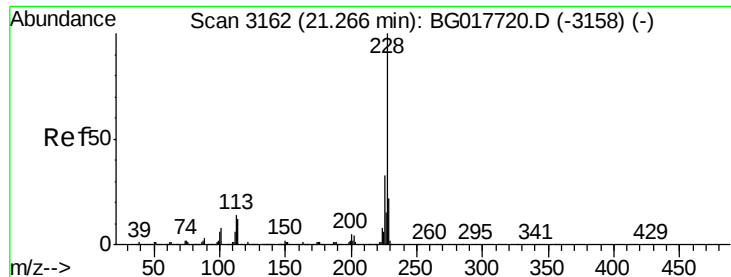


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 36.48 ng

RT: 21.24 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampled :

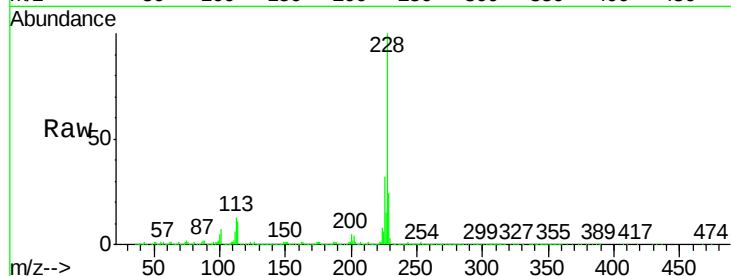
Tot Ion:228 Resp: 959729

Ion Ratio Lower Upper

228 100

226 31.6 26.1 39.1

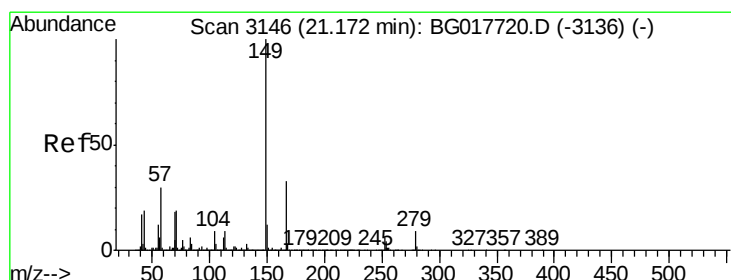
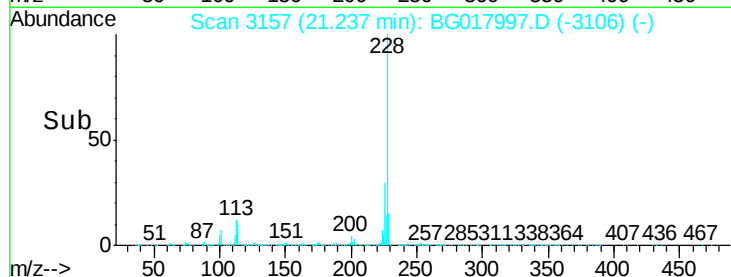
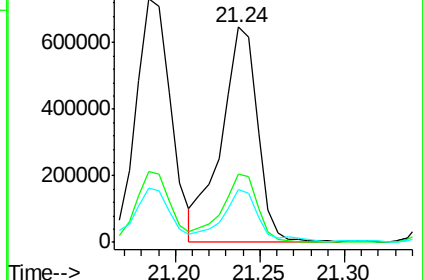
229 24.4 17.7 26.5



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 8.04 ng

RT: 21.13 min Scan# 3139

Delta R.T. 0.00 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

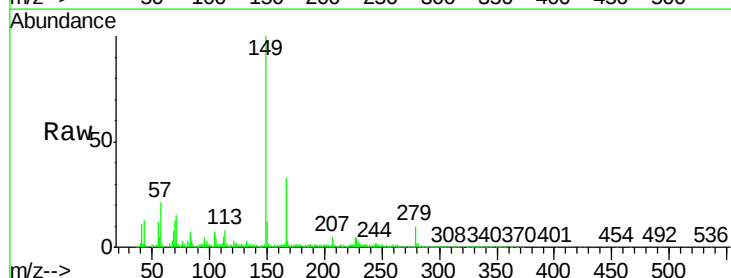
Tgt Ion:149 Resp: 144616

Ion Ratio Lower Upper

149 100

167 32.9 26.6 39.8

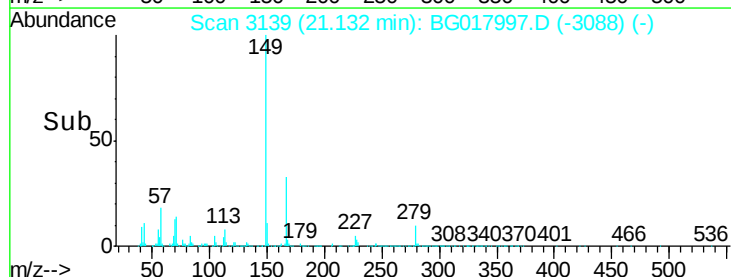
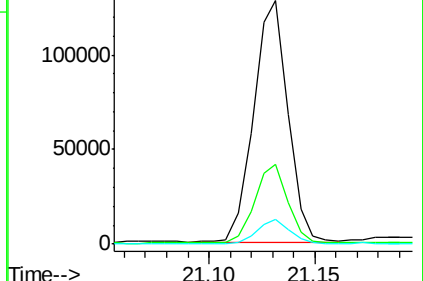
279 10.4 6.9 10.3#

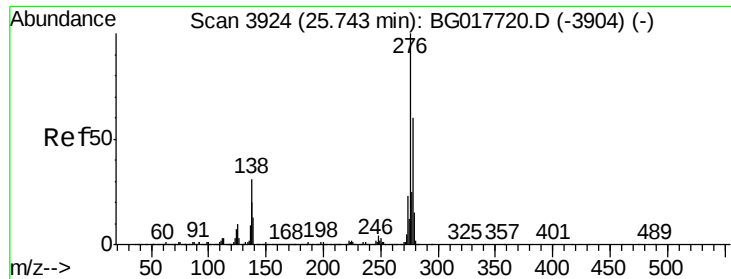


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

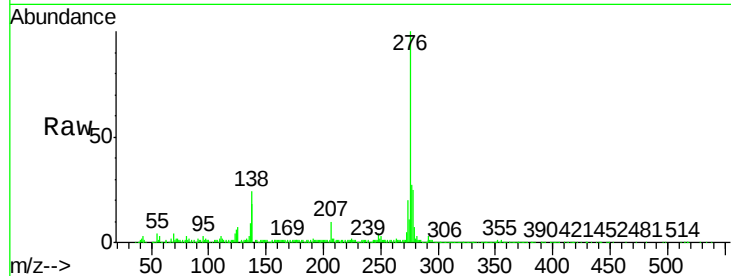




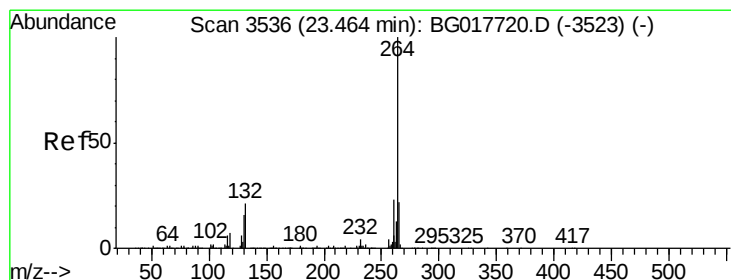
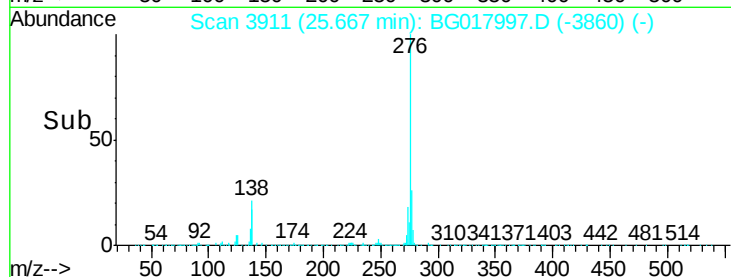
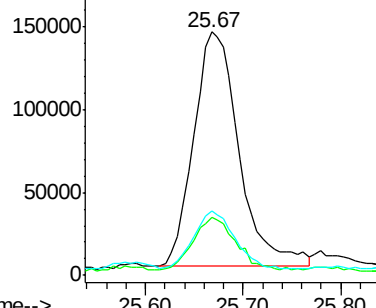
#85
Indeno(1,2,3-cd)pyrene
Concen: 14.47 ng
RT: 25.67 min Scan# 3911
Delta R.T. 0.00 min
Lab File: BG017997.D
Acq: 20 Jul 2015 20:02

Instrument :
BNA_G
ClientSampleId :

Tot Ion:276 Resp: 460373
Ion Ratio Lower Upper
276 100
138 20.9 25.4 38.0#
277 22.3 21.0 31.4

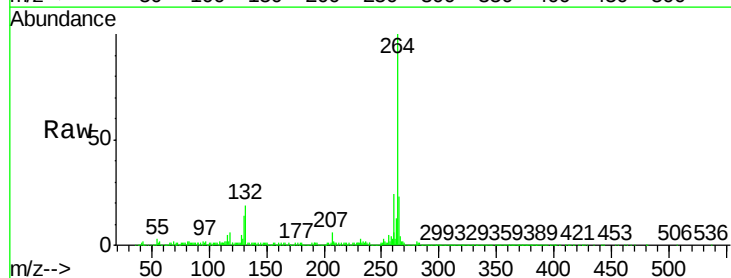


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

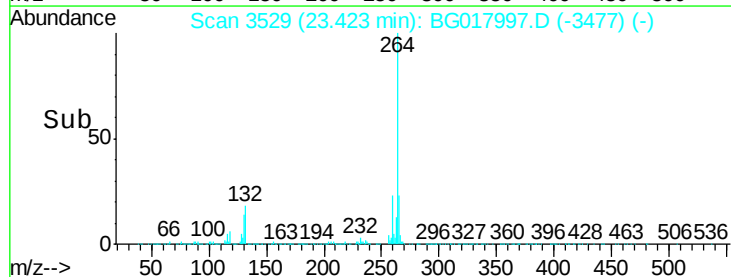
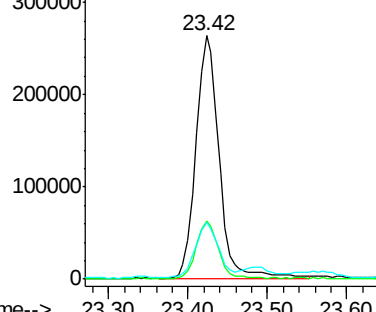


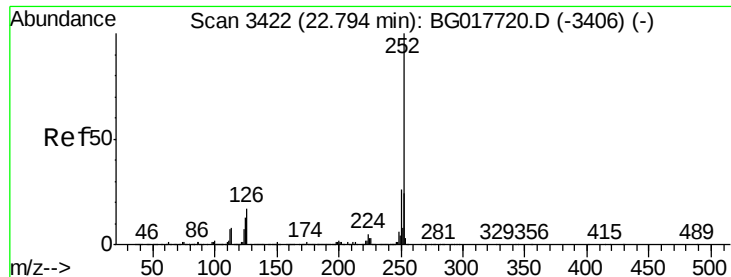
#86
Perylene-d12
Concen: 20.00 ng
RT: 23.42 min Scan# 3529
Delta R.T. 0.01 min
Lab File: BG017997.D
Acq: 20 Jul 2015 20:02

Tgt Ion:264 Resp: 529668
Ion Ratio Lower Upper
264 100
260 23.7 18.6 27.8
265 23.3 18.2 27.2



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: 59.81 ng

RT: 22.76 min Scan# 3416

Delta R.T. 0.01 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampleId :

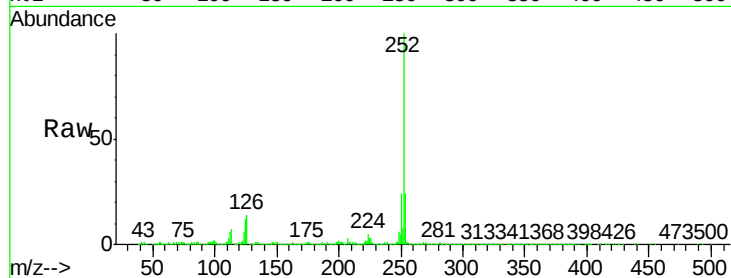
Tot Ion:252 Resp: 1733306

Ion Ratio Lower Upper

252 100

253 24.1 19.7 29.5

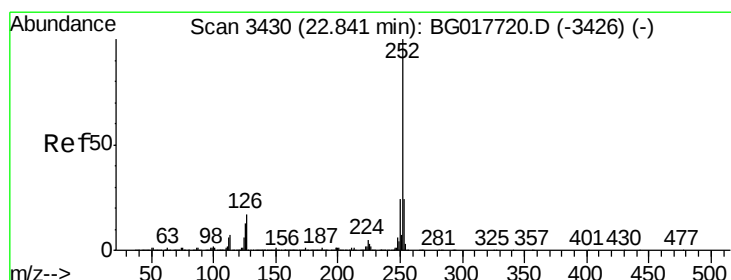
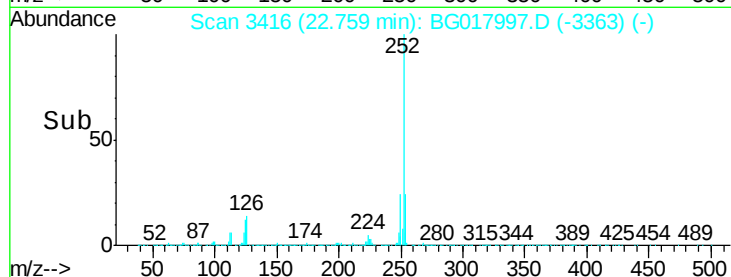
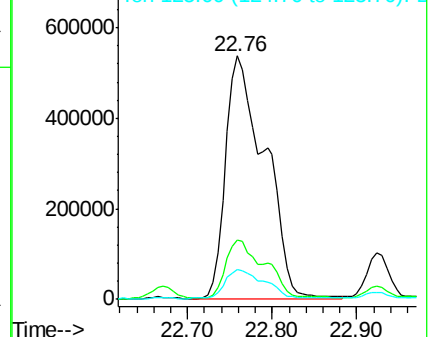
125 12.2 10.6 15.8



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



#88

Benzo(k)fluoranthene

Concen: 59.90 ng

RT: 22.76 min Scan# 3416

Delta R.T. -0.03 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

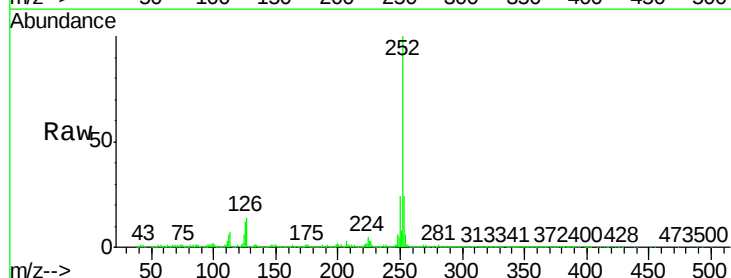
Tgt Ion:252 Resp: 1733306

Ion Ratio Lower Upper

252 100

253 24.1 19.0 28.6

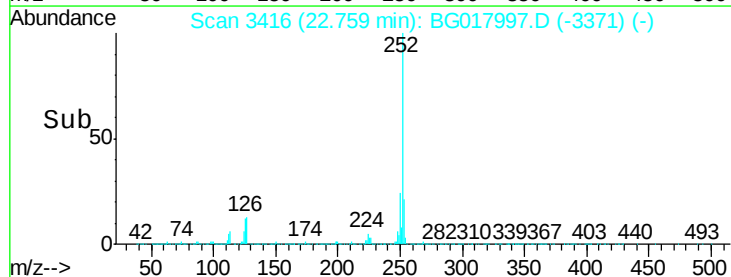
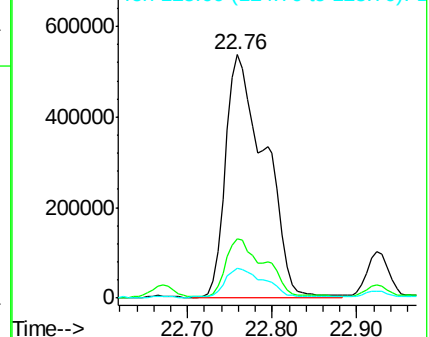
125 12.2 10.3 15.5

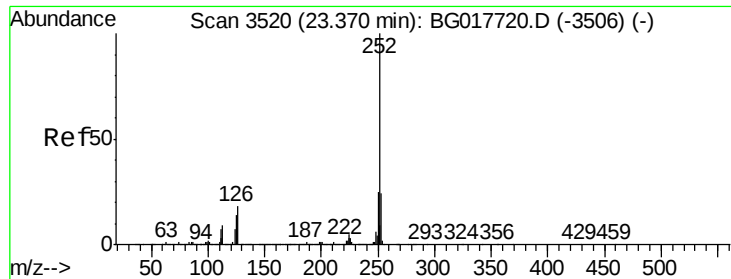


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 33.30 ng

RT: 23.33 min Scan# 3513

Delta R.T. 0.01 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampleId :

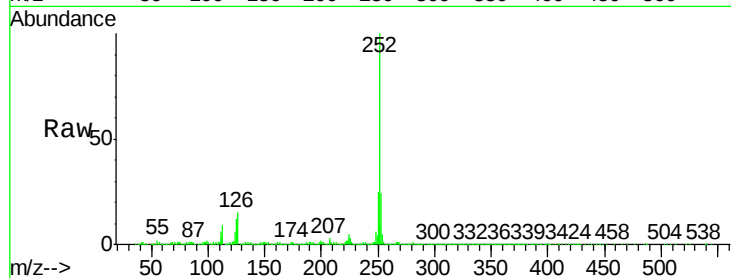
Tot Ion:252 Resp: 899176

Ion Ratio Lower Upper

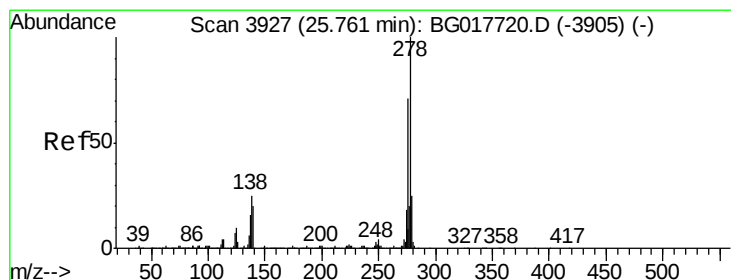
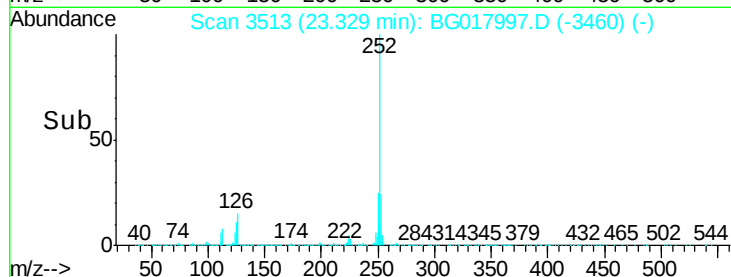
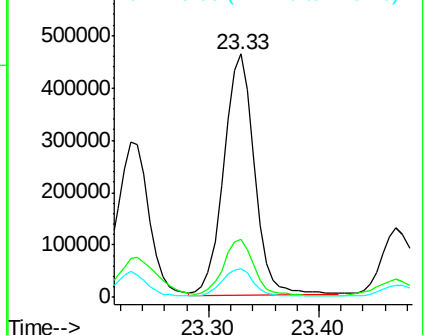
252 100

253 24.1 19.0 28.6

125 11.7 11.1 16.7



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



#90

Dibenzo(a,h)anthracene

Concen: 3.81 ng

RT: 25.69 min Scan# 3914

Delta R.T. 0.01 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

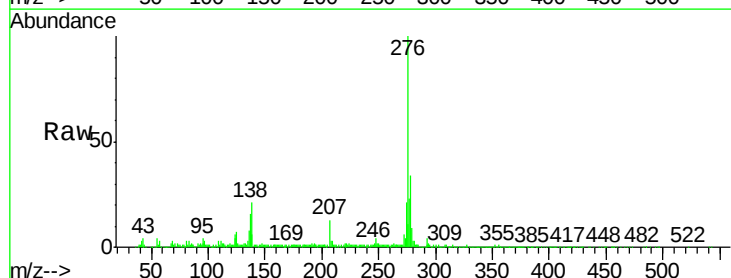
Tgt Ion:278 Resp: 106704

Ion Ratio Lower Upper

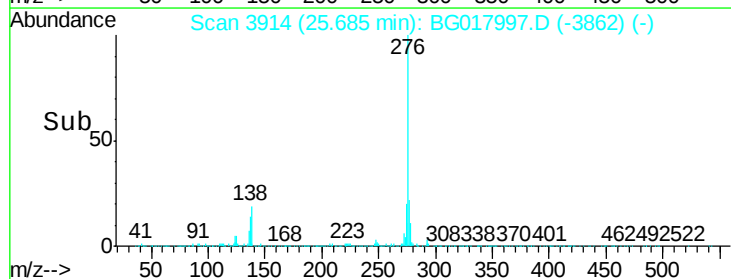
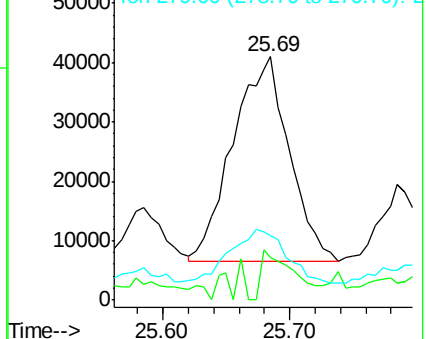
278 100

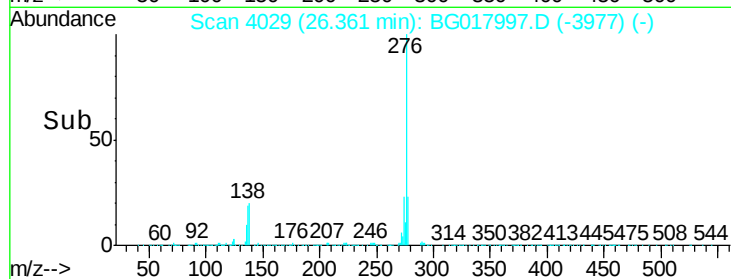
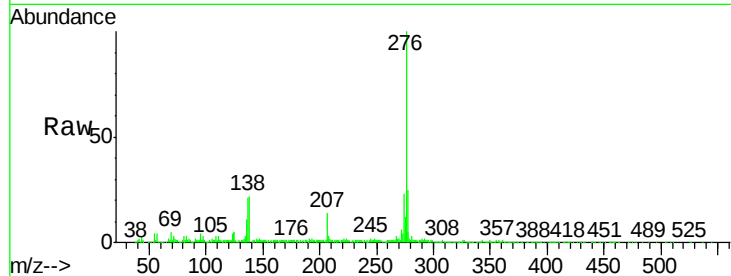
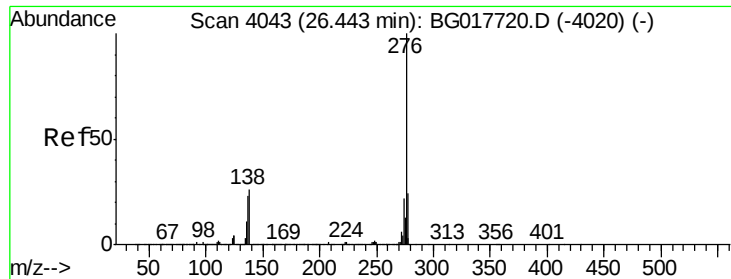
139 17.5 16.2 24.2

279 26.6 19.9 29.9



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(a,h,i)perylene

Concen: 15.43 ng

RT: 26.36 min Scan# 4029

Delta R.T. 0.01 min

Lab File: BG017997.D

Acq: 20 Jul 2015 20:02

Instrument :

BNA_G

ClientSampleId :

Tot Ion:	276	Resp:	416666
Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.9	28.3
138	21.8	20.8	31.2

