

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
 Data File : BG021208.D
 Acq On : 2 Mar 2016 7:00
 Operator : UM/SJ
 Sample : H1557-02RE 20X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 P-10RE

Quant Time: Mar 02 07:40:15 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 29 17:40:25 2016
 Response via : Initial Calibration

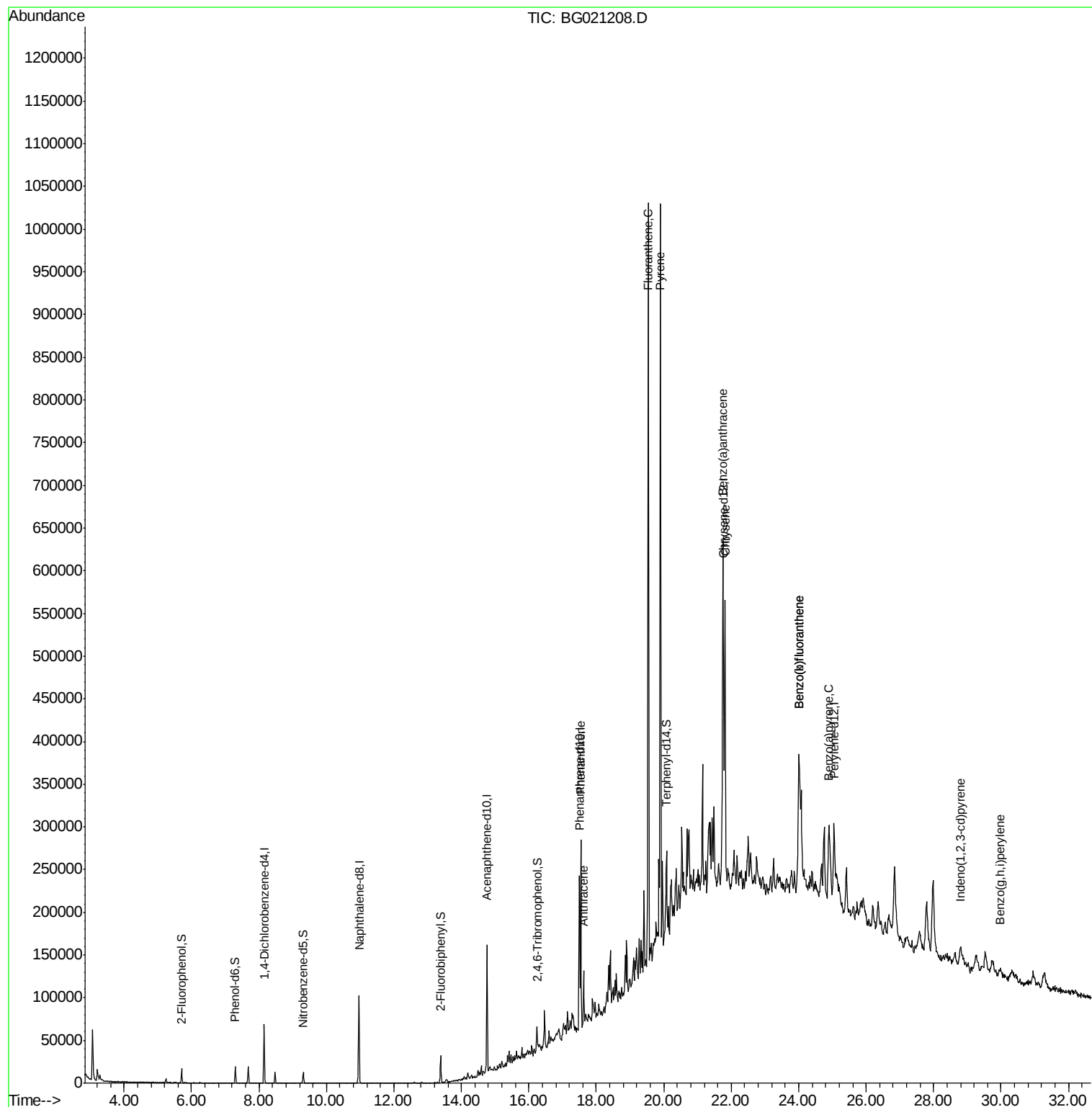
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.15	152	16947	20.00	ng	0.00
21) Naphthalene-d8	10.96	136	81391	20.00	ng	0.00
38) Acenaphthene-d10	14.76	164	44494	20.00	ng	0.00
63) Phenanthrene-d10	17.50	188	94236	20.00	ng	0.00
75) Chrysene-d12	21.77	240	105455	20.00	ng	0.00
86) Perylene-d12	25.05	264	81750	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	7021	6.59	ng	0.00
7) Phenol-d6	7.30	99	11608	6.62	ng	0.00
23) Nitrobenzene-d5	9.31	82	8629	4.49	ng	0.00
41) 2,4,6-Tribromophenol	16.24	330	2715	5.86	ng	0.00
44) 2-Fluorobiphenyl	13.38	172	15063	4.81	ng	0.00
78) Terphenyl-d14	20.08	244	21029	4.83	ng	0.00
Target Compounds						Qvalue
70) Phenanthrene	17.54	178	121724	23.94	ng	99
71) Anthracene	17.63	178	35863	6.89	ng	96
74) Fluoranthene	19.54	202	492969	82.51	ng	98
77) Pyrene	19.90	202	493209	78.40	ng	96
80) Benzo(a)anthracene	21.74	228	232840	37.29	ng	97
82) Chrysene	21.82	228	223255	37.73	ng	97
85) Indeno(1,2,3-cd)pyrene	28.80	276	35144	5.18	ng	# 100
87) Benzo(b)fluoranthene	24.01	252	210228	40.88	ng	# 95
88) Benzo(k)fluoranthene	24.01	252	210228	40.82	ng	# 94
89) Benzo(a)pyrene	24.90	252	101782	20.47	ng	# 91
91) Benzo(g,h,i)perylene	29.98	276	25173	5.30	ng	# 85

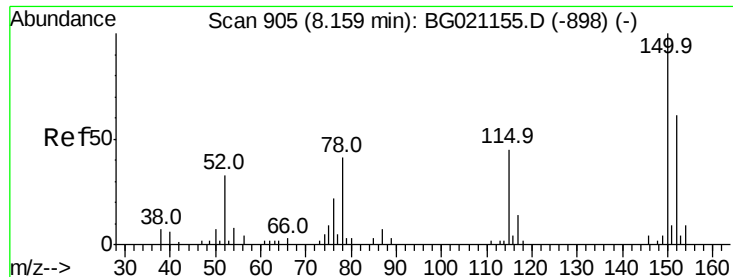
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.15 min Scan# 904

Delta R.T. -0.01 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Instrument :

BNA_G

ClientSampleId :

P-10RE

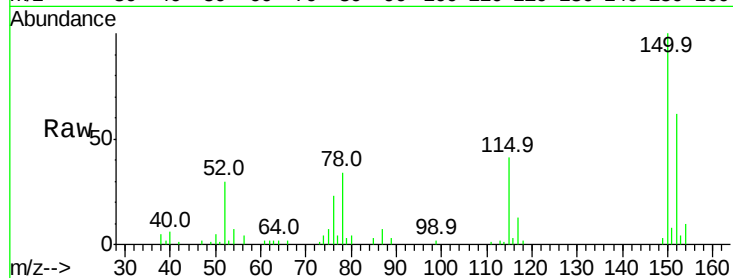
Tot Ion:152 Resp: 16947

Ion Ratio Lower Upper

152 100

150 160.0 123.4 185.2

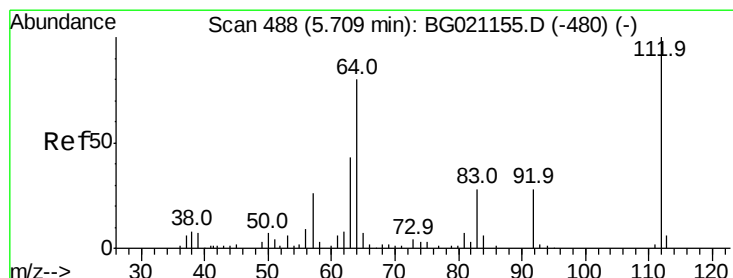
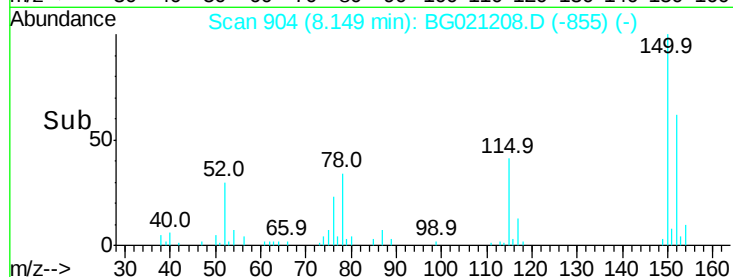
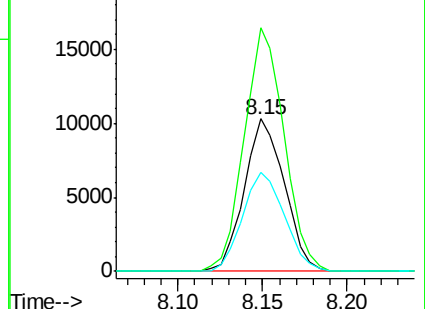
115 65.0 43.3 64.9#



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: 6.59 ng

RT: 5.70 min Scan# 488

Delta R.T. -0.00 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

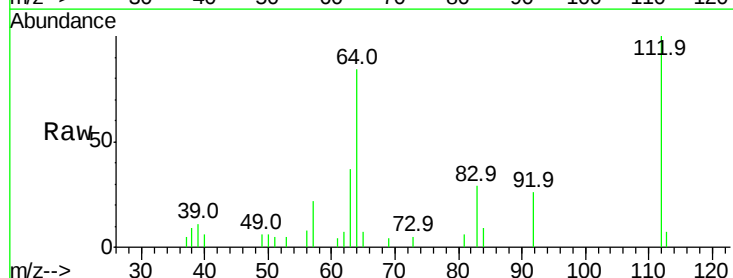
Tgt Ion:112 Resp: 7021

Ion Ratio Lower Upper

112 100

64 84.2 42.6 63.8#

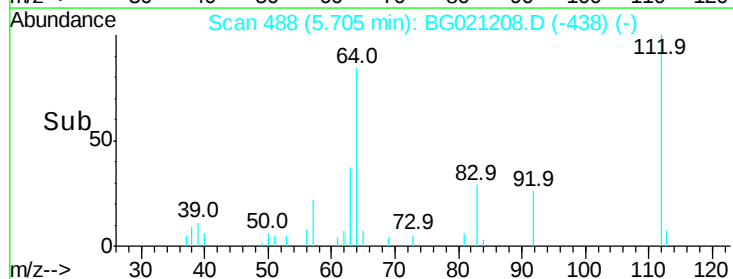
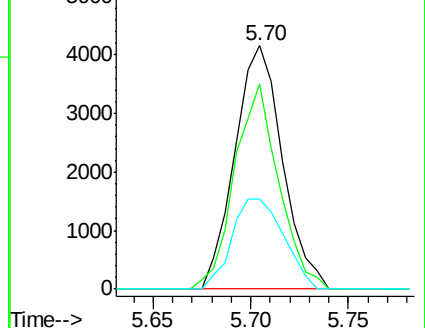
63 36.8 21.7 32.5#

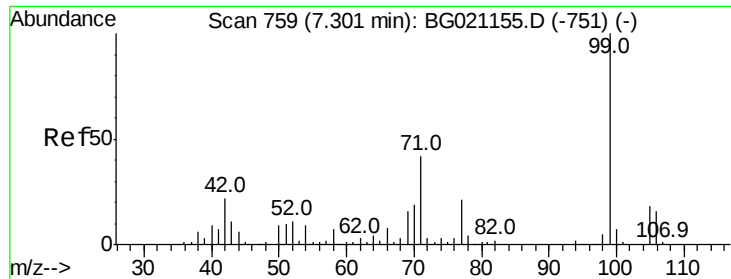


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 6.62 ng

RT: 7.30 min Scan# 759

Delta R.T. -0.00 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Instrument :

BNA_G

ClientSampleId :

P-10RE

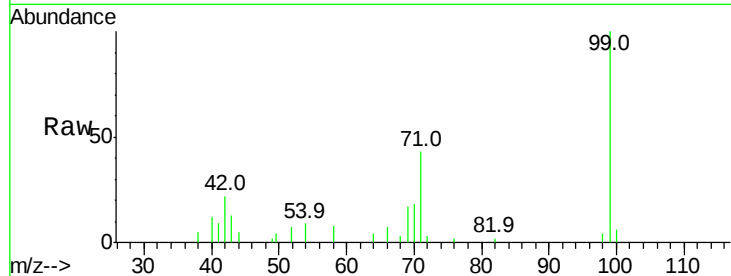
Tot Ion: 99 Resp: 11608

Ion Ratio Lower Upper

99 100

42 22.1 13.2 19.8#

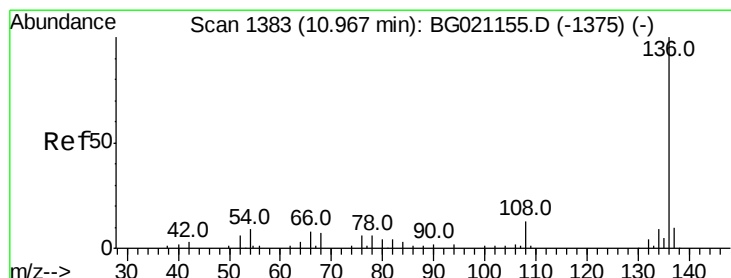
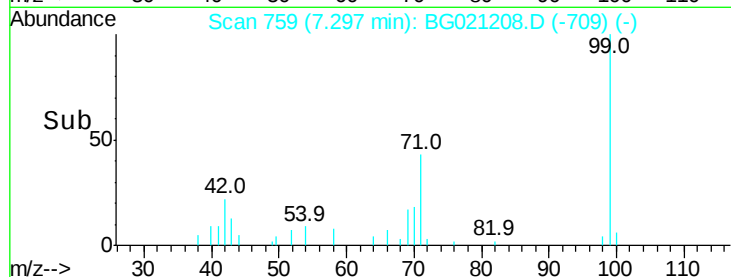
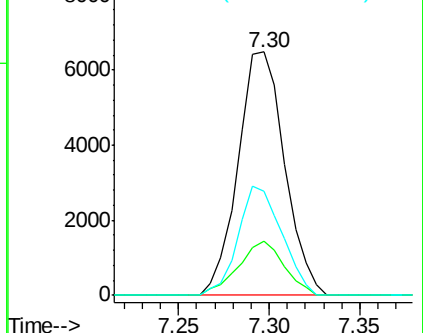
71 42.7 25.2 37.8#



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: 10.96 min Scan# 1383

Delta R.T. -0.00 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Tgt Ion: 136 Resp: 81391

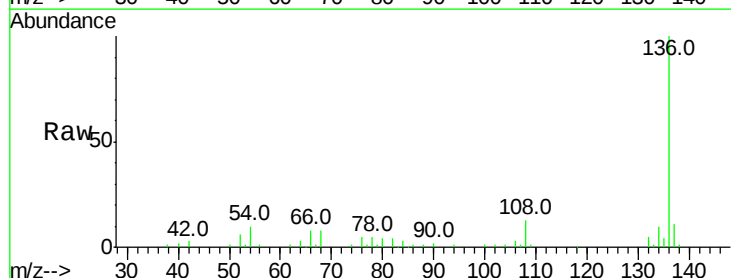
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 9.9 6.9 10.3

68 7.6 5.8 8.6

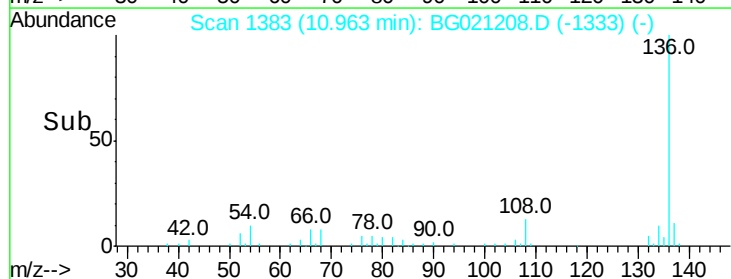
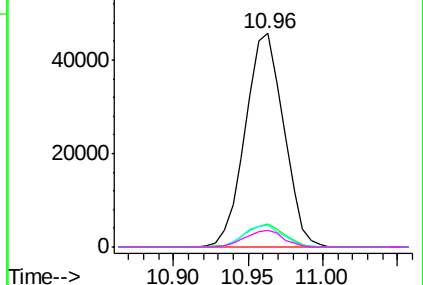


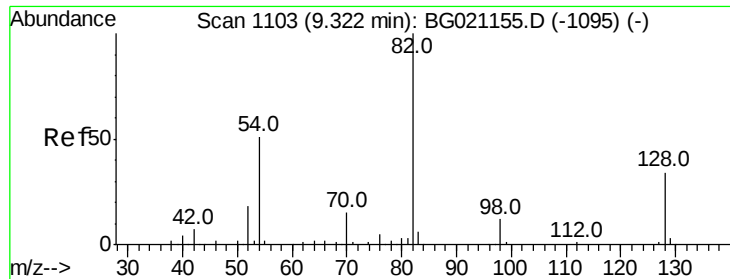
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

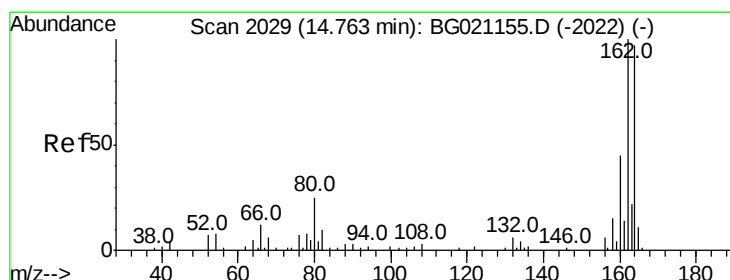
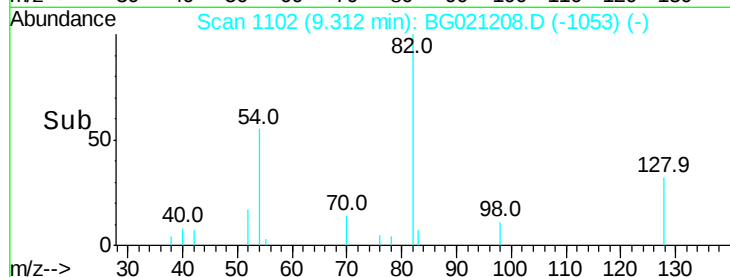
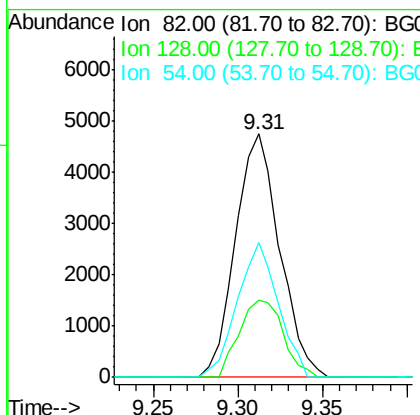
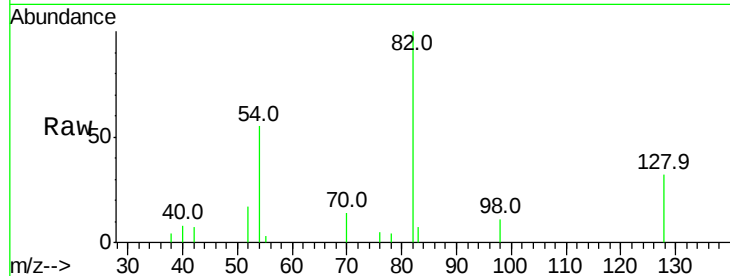




#23
Nitrobenzene-d5
Concen: 4.49 ng
RT: 9.31 min Scan# 1102
Delta R.T. -0.01 min
Lab File: BG021208.D
Acq: 2 Mar 2016 7:00

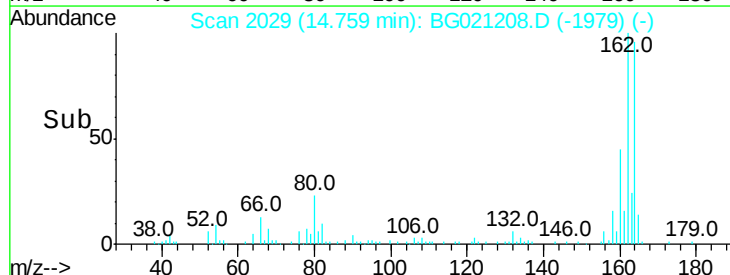
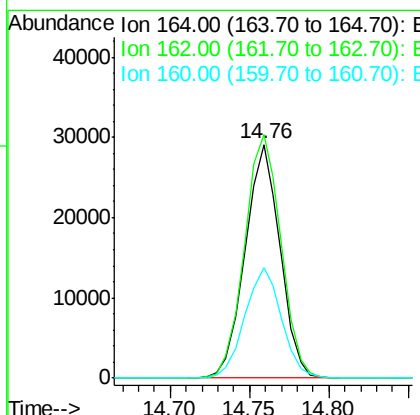
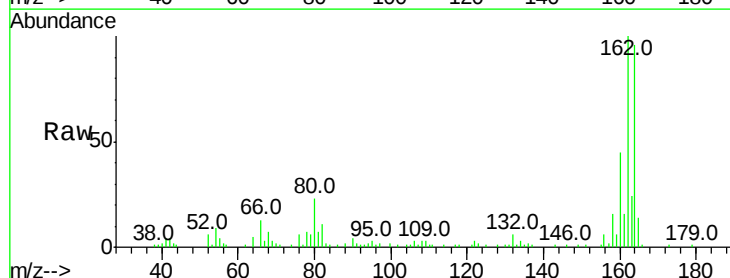
Instrument :
BNA_G
ClientSampled :
P-10RE

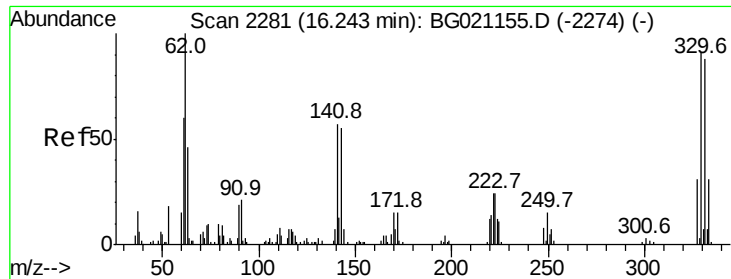
Tot Ion: 82 Resp: 8629
Ion Ratio Lower Upper
82 100
128 31.8 36.3 54.5#
54 55.1 37.6 56.4



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.76 min Scan# 2029
Delta R.T. -0.00 min
Lab File: BG021208.D
Acq: 2 Mar 2016 7:00

Tgt Ion:164 Resp: 44494
Ion Ratio Lower Upper
164 100
162 104.2 80.6 120.8
160 47.0 36.5 54.7

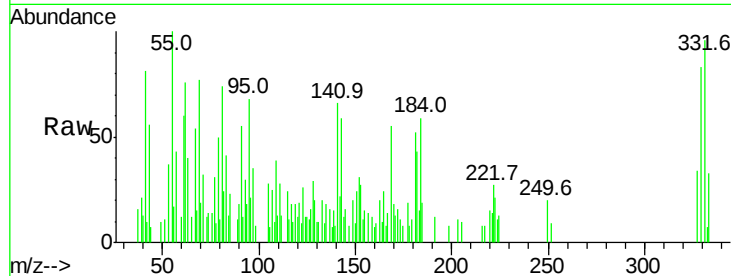




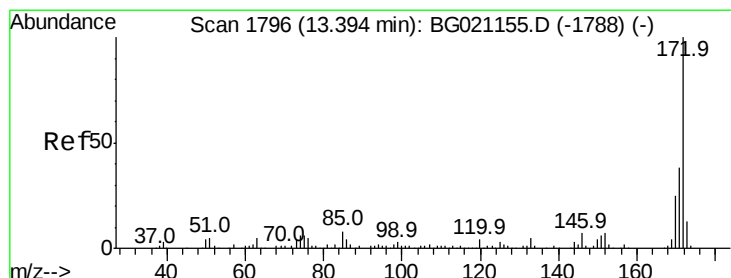
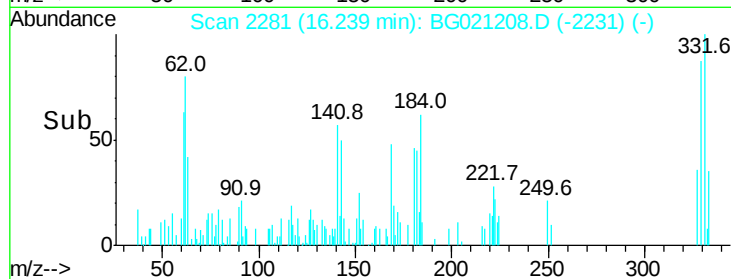
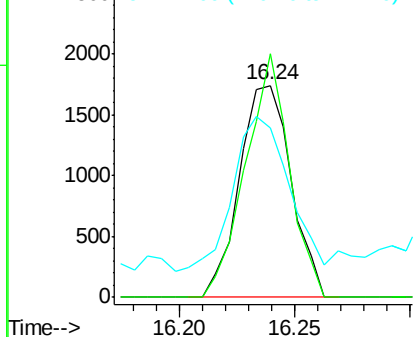
#41
 2,4,6-Tribromophenol
 Concen: 5.86 ng
 RT: 16.24 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: BG021208.D
 Acq: 2 Mar 2016 7:00

Instrument :
 BNA_G
 ClientSampleId :
 P-10RE

Tot Ion:330 Resp: 2715
 Ion Ratio Lower Upper
 330 100
 332 97.1 77.4 116.0
 141 83.3 35.3 52.9#

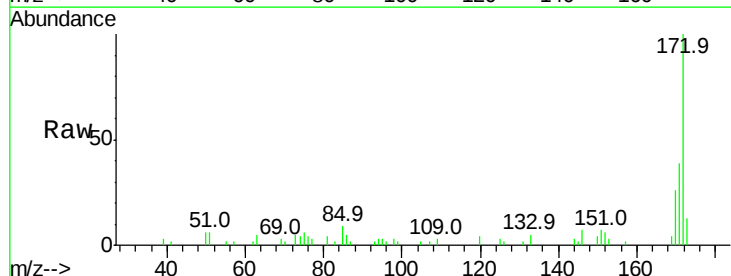


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

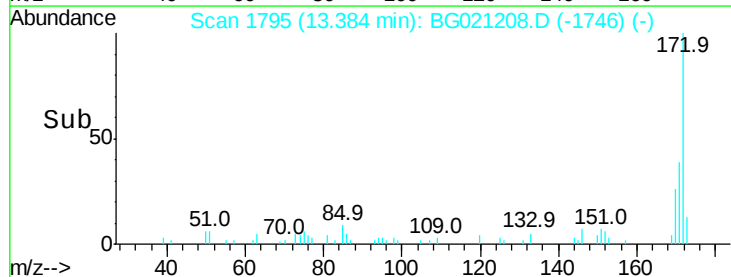
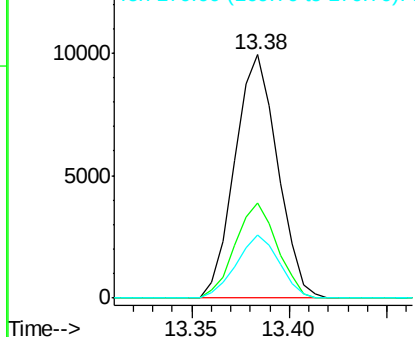


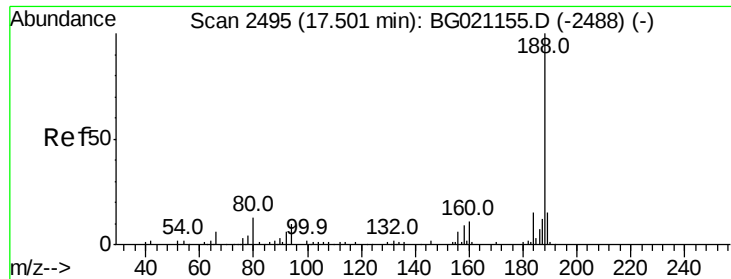
#44
 2-Fluorobiphenyl
 Concen: 4.81 ng
 RT: 13.38 min Scan# 1795
 Delta R.T. -0.01 min
 Lab File: BG021208.D
 Acq: 2 Mar 2016 7:00

Tgt Ion:172 Resp: 15063
 Ion Ratio Lower Upper
 172 100
 171 39.1 29.4 44.0
 170 26.0 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.50 min Scan# 2495

Delta R.T. -0.00 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Instrument :

BNA_G

ClientSampleId :

P-10RE

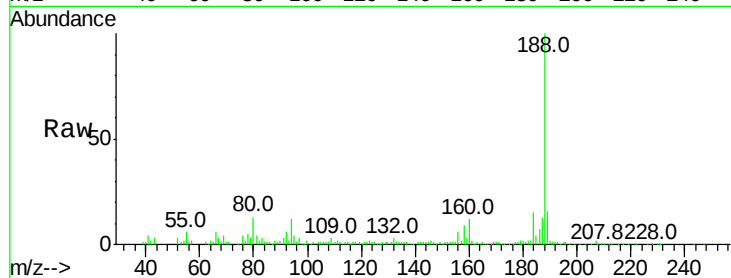
Tot Ion:188 Resp: 94236

Ion Ratio Lower Upper

188 100

94 11.6 8.2 12.4

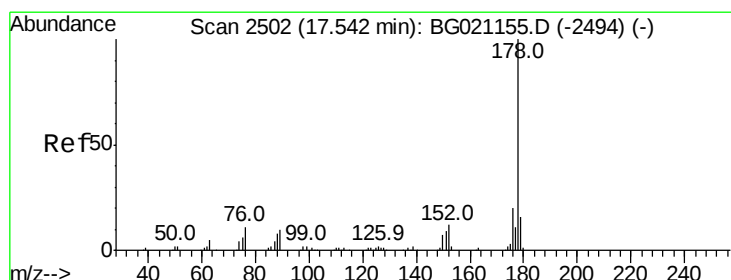
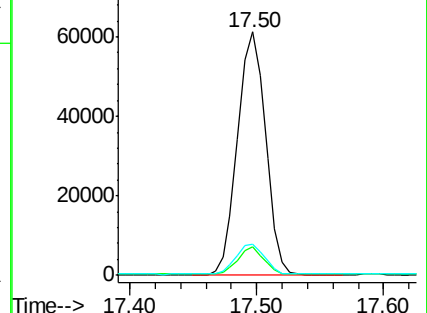
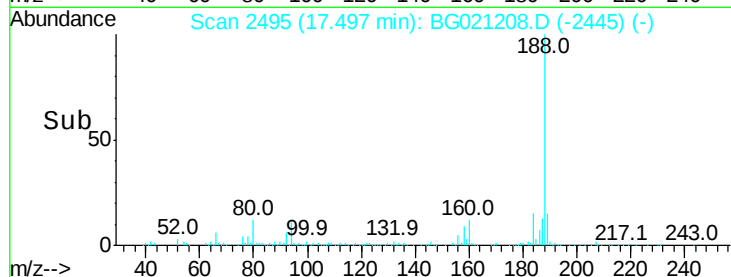
80 13.0 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#70

Phenanthrene

Concen: 23.94 ng

RT: 17.54 min Scan# 2502

Delta R.T. -0.00 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

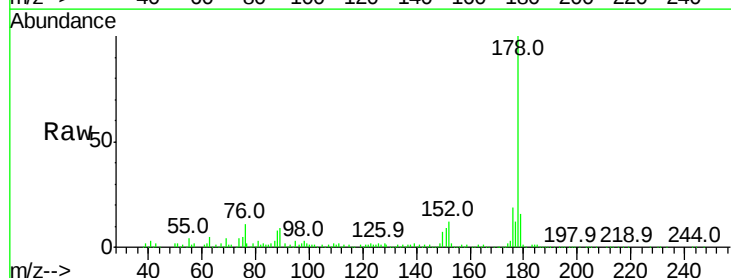
Tgt Ion:178 Resp: 121724

Ion Ratio Lower Upper

178 100

176 19.3 16.2 24.4

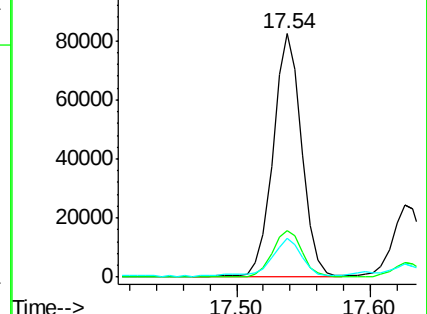
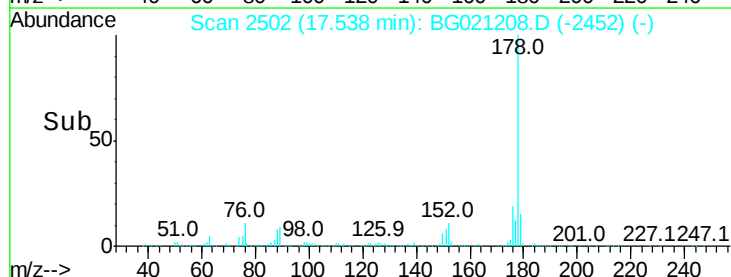
179 15.9 12.9 19.3

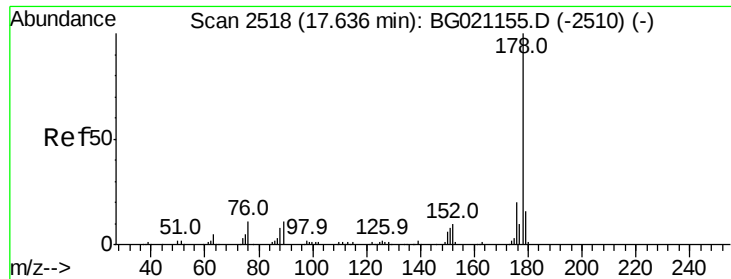


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 6.89 ng

RT: 17.63 min Scan# 2517

Delta R.T. -0.01 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Instrument :

BNA_G

ClientSampleId :

P-10RE

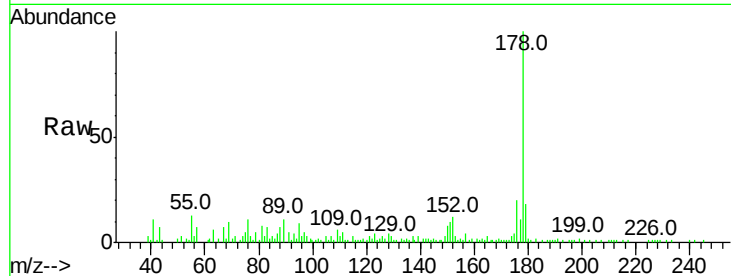
Tot Ion:178 Resp: 35863

Ion Ratio Lower Upper

178 100

176 20.2 14.8 22.2

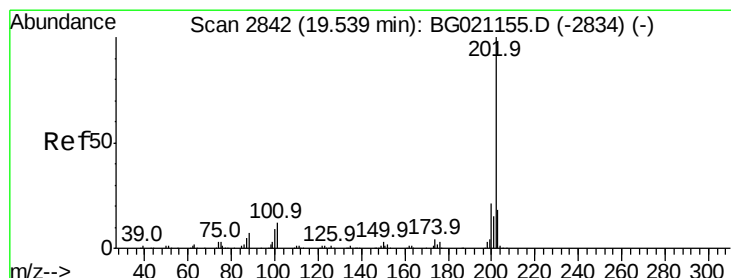
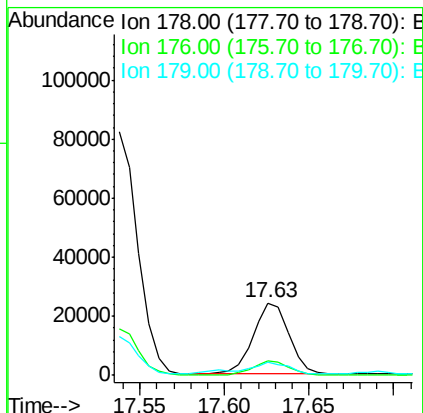
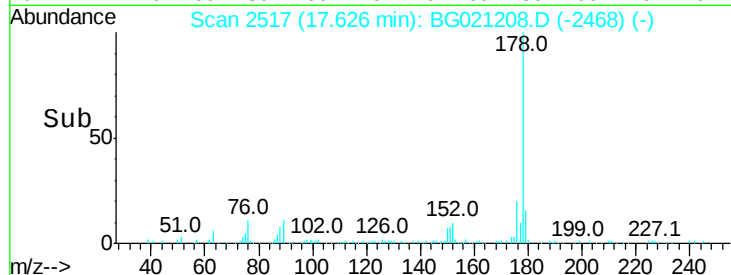
179 17.7 12.6 19.0



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: 82.51 ng

RT: 19.54 min Scan# 2843

Delta R.T. 0.00 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

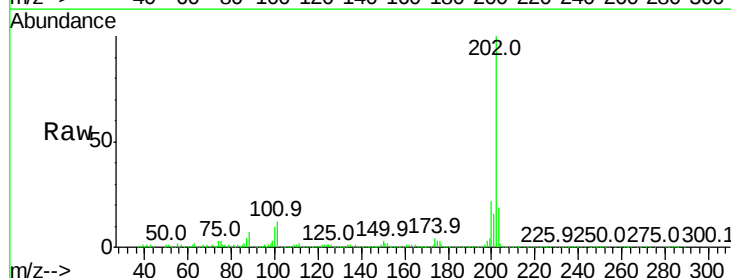
Tgt Ion:202 Resp: 492969

Ion Ratio Lower Upper

202 100

101 12.0 0.0 32.5

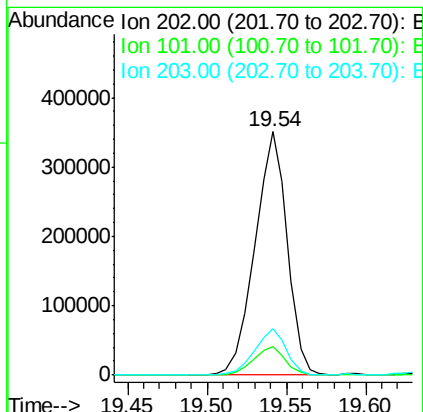
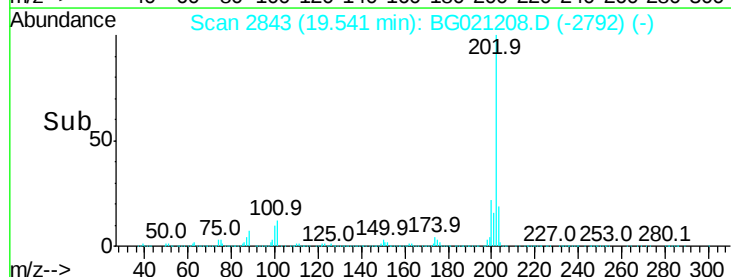
203 18.8 0.0 37.6

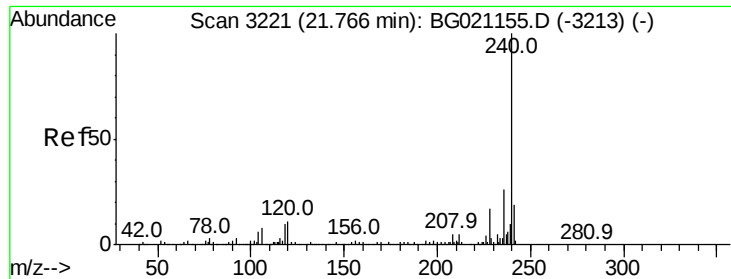


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

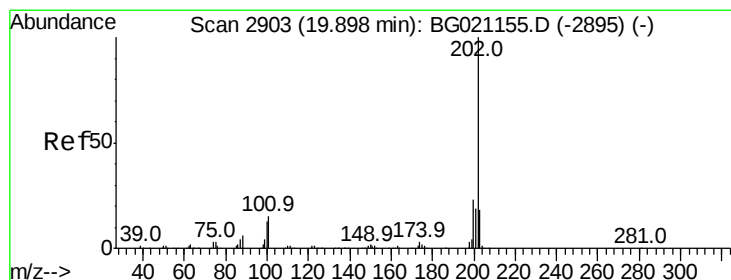
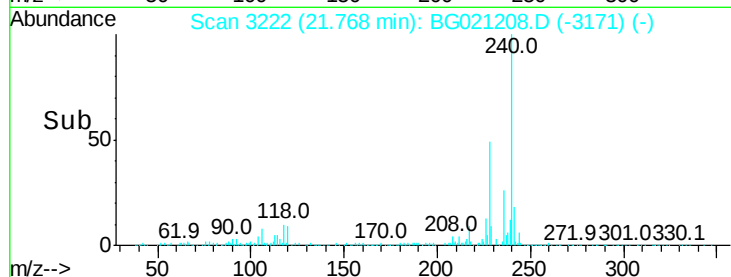
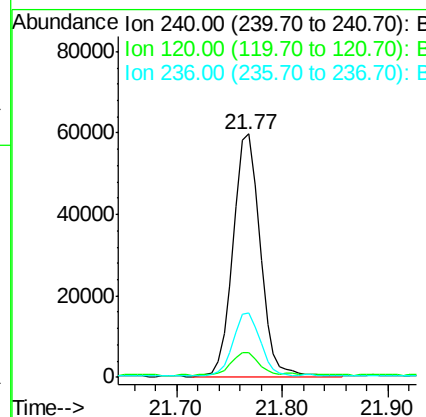
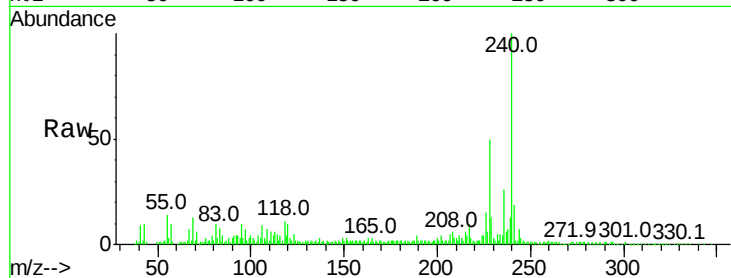




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 21.77 min Scan# 3222
 Delta R.T. 0.00 min
 Lab File: BG021208.D
 Acq: 2 Mar 2016 7:00

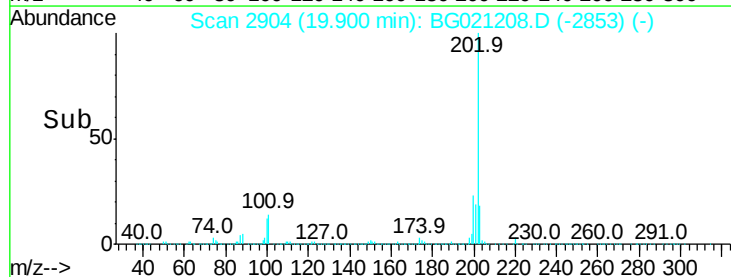
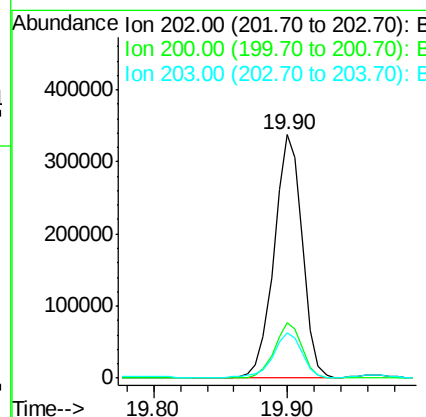
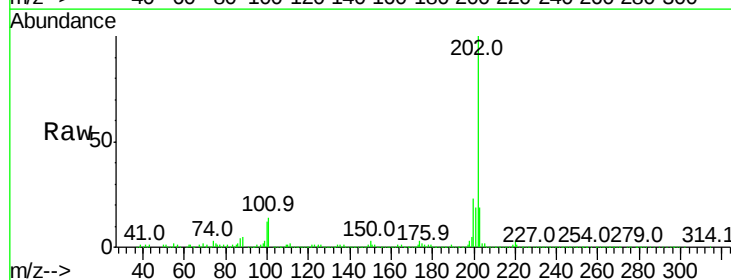
Instrument :
 BNA_G
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 P-10RE

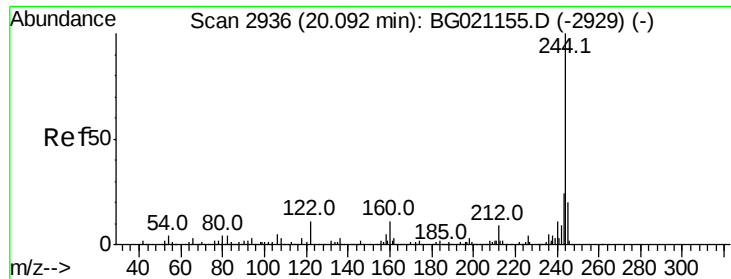
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	26.5	20.5	30.7



#77
 Pyrene
 Concen: 78.40 ng
 RT: 19.90 min Scan# 2904
 Delta R.T. 0.00 min
 Lab File: BG021208.D
 Acq: 2 Mar 2016 7:00

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.0	16.6	25.0
203	18.8	13.8	20.8





#78

Terphenyl-d14

Concen: 4.83 ng

RT: 20.08 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Instrument :

BNA_G

ClientSampleId :

P-10RE

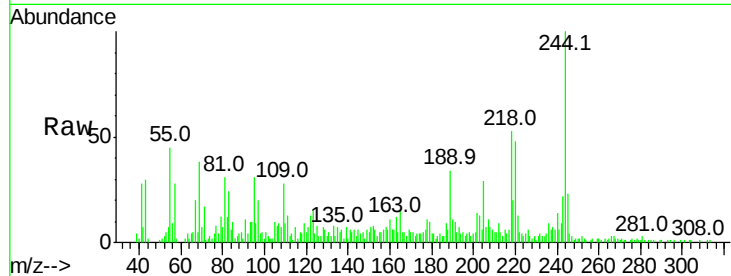
Tot Ion:244 Resp: 21029

Ion Ratio Lower Upper

244 100

212 9.1 5.8 8.6#

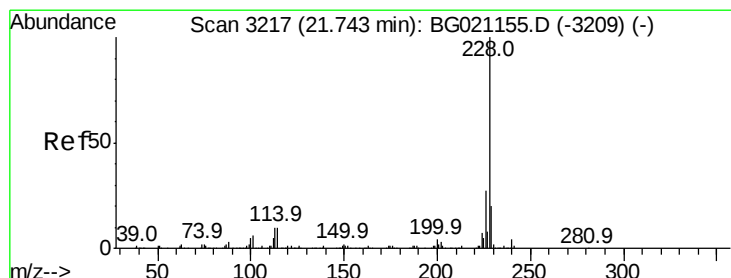
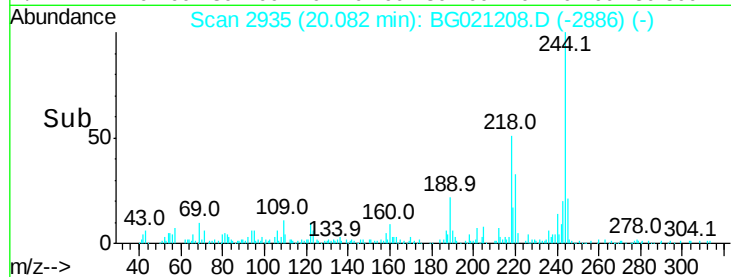
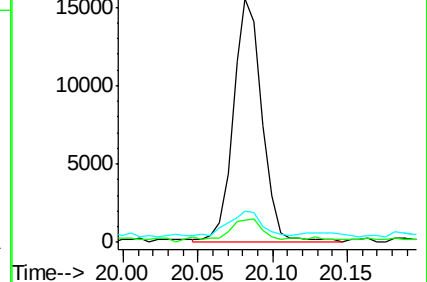
122 13.0 8.3 12.5#



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: 37.29 ng

RT: 21.74 min Scan# 3218

Delta R.T. 0.00 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

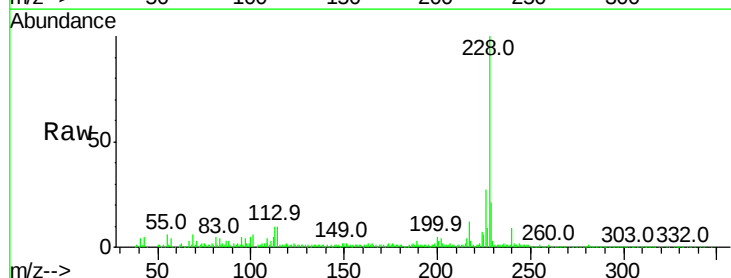
Tgt Ion:228 Resp: 232840

Ion Ratio Lower Upper

228 100

226 27.4 22.7 34.1

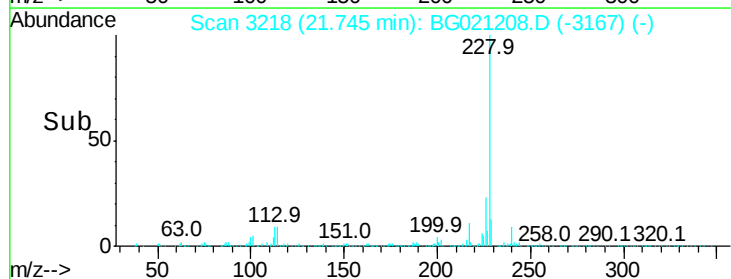
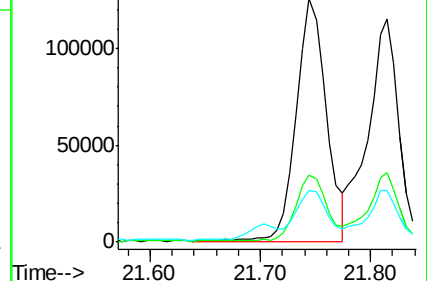
229 21.3 15.5 23.3

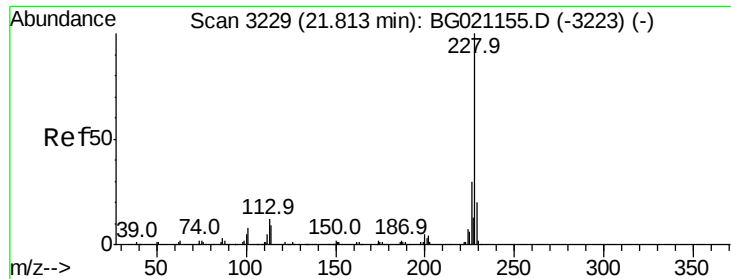


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

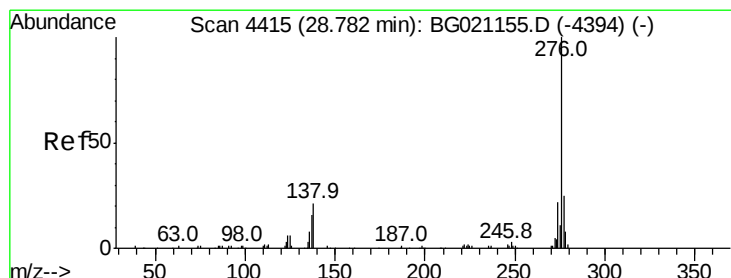
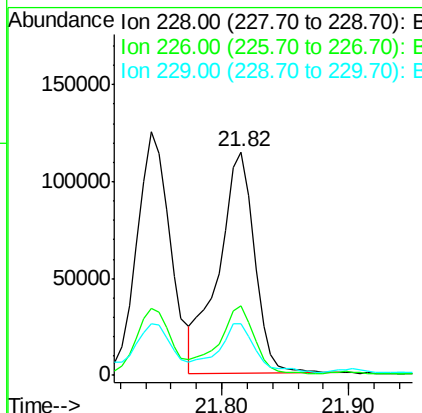
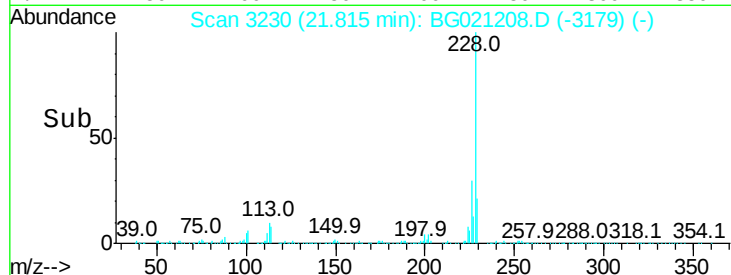
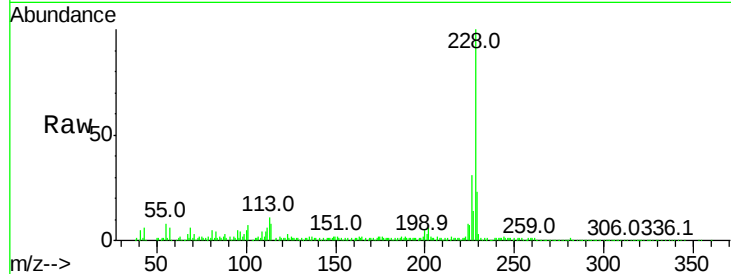




#82
Chrysene
Concen: 37.73 ng
RT: 21.82 min Scan# 3230
Delta R.T. 0.00 min
Lab File: BG021208.D
Acq: 2 Mar 2016 7:00

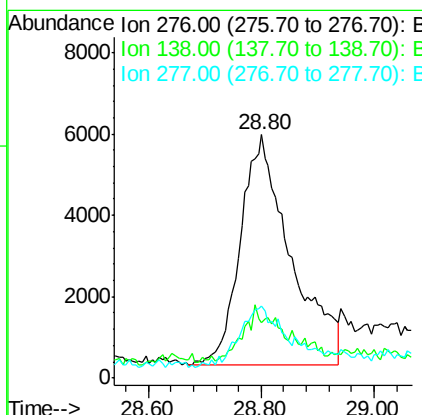
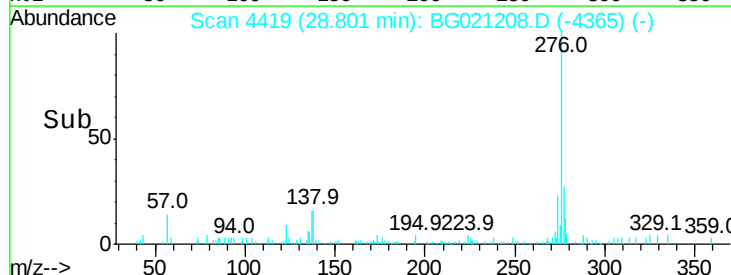
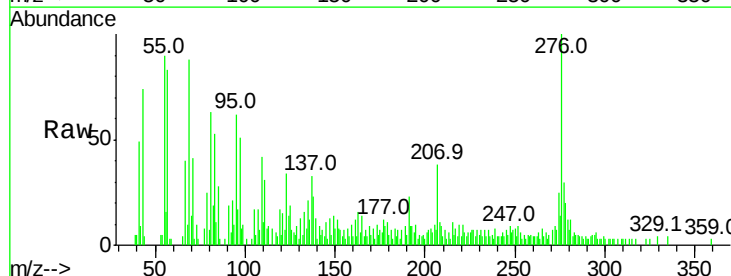
Instrument :
BNA_G
ClientSampleId :
P-10RE

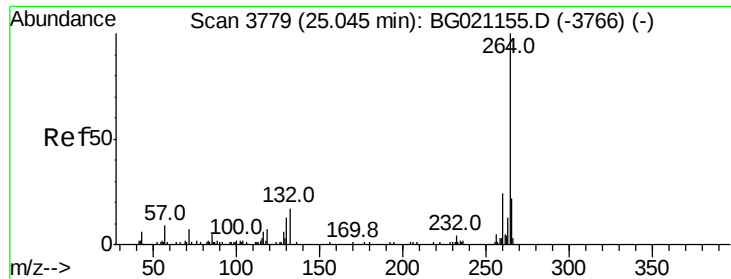
Tot Ion:228 Resp: 223255
Ion Ratio Lower Upper
228 100
226 30.9 23.7 35.5
229 23.1 16.7 25.1



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.18 ng
RT: 28.80 min Scan# 4419
Delta R.T. 0.02 min
Lab File: BG021208.D
Acq: 2 Mar 2016 7:00

Tgt Ion:276 Resp: 35144
Ion Ratio Lower Upper
276 100
138 8.3 0.0 0.0#
277 20.8 0.0 0.0#





#86

Pervlene-d12

Concen: 20.00 ng

RT: 25.05 min Scan# 3781

Delta R.T. 0.01 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Instrument :

BNA_G

ClientSampled :

P-10RE

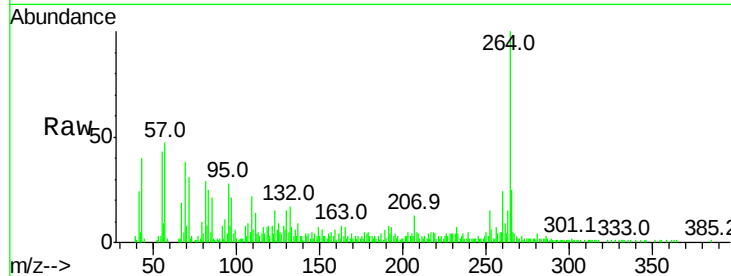
Tot Ion:264 Resp: 81750

Ion Ratio Lower Upper

264 100

260 23.6 18.5 27.7

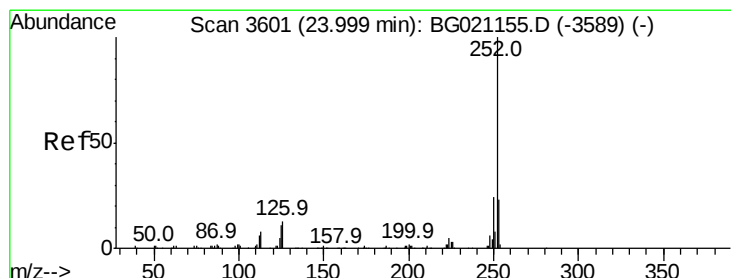
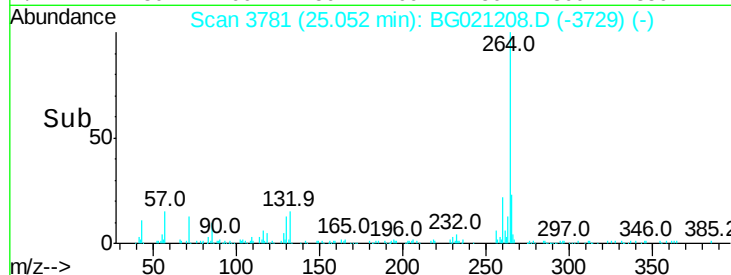
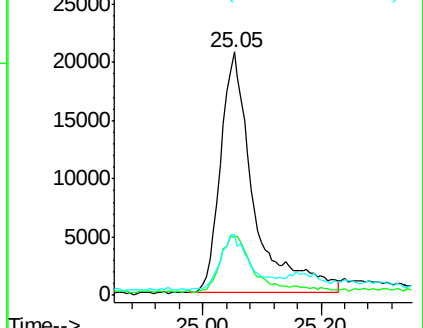
265 25.1 18.6 28.0



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: 40.88 ng

RT: 24.01 min Scan# 3604

Delta R.T. 0.01 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

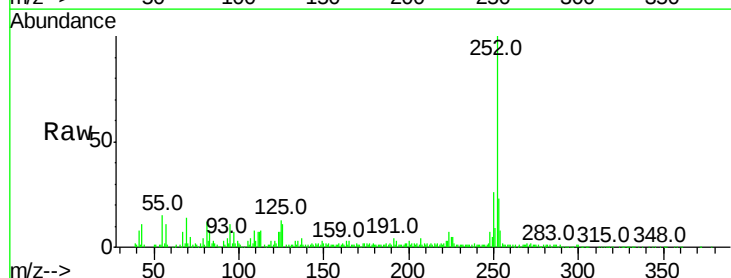
Tgt Ion:252 Resp: 210228

Ion Ratio Lower Upper

252 100

253 23.1 16.8 25.2

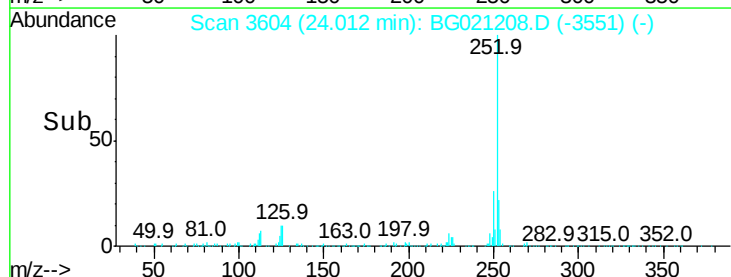
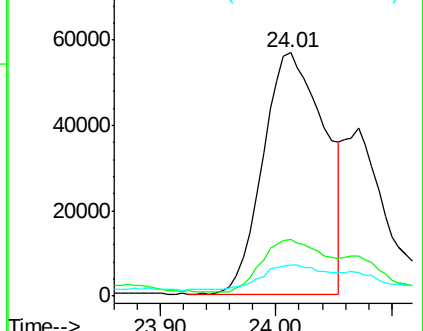
125 12.6 8.2 12.2#

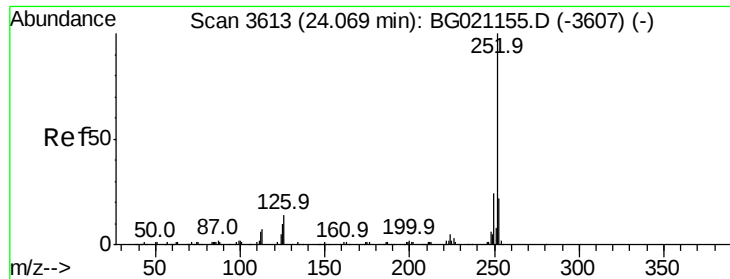


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 40.82 ng

RT: 24.01 min Scan# 3604

Delta R.T. -0.06 min

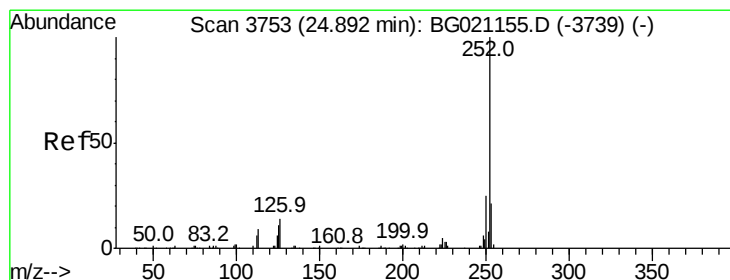
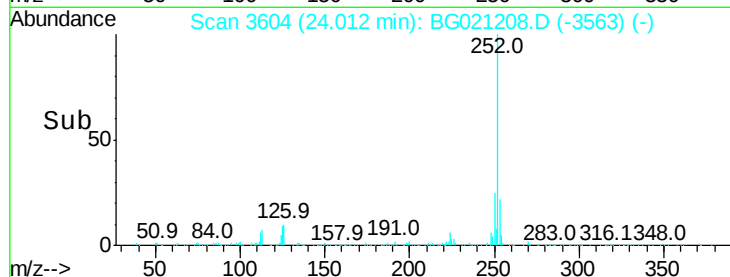
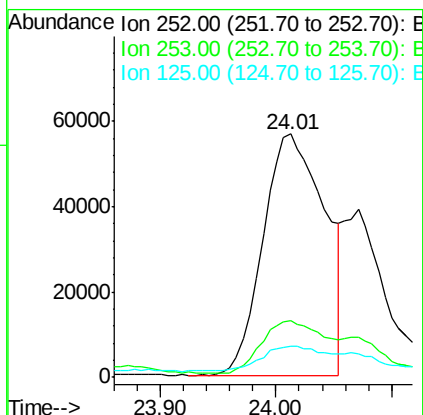
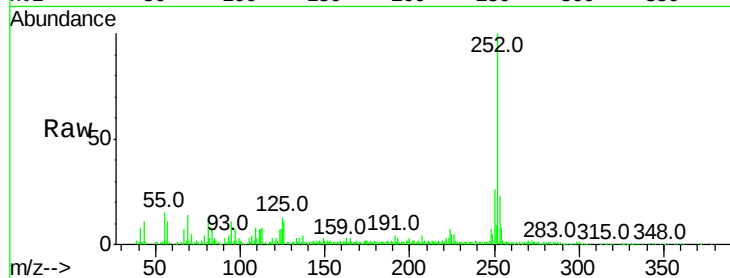
Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Instrument :
BNA_G
ClientSampleId :
P-10RE

Tot Ion:252 Resp: 210228

Ion	Ratio	Lower	Upper
252	100		
253	23.1	16.4	24.6
125	12.6	8.2	12.2#



#89

Benzo(a)pyrene

Concen: 20.47 ng

RT: 24.90 min Scan# 3755

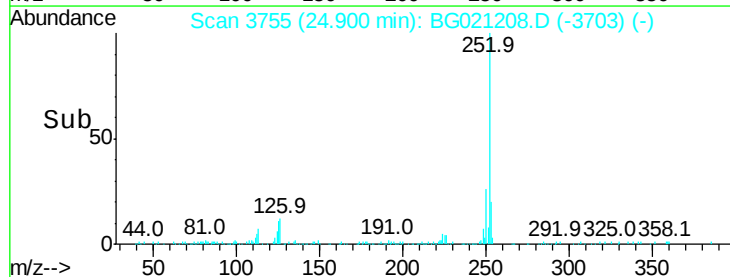
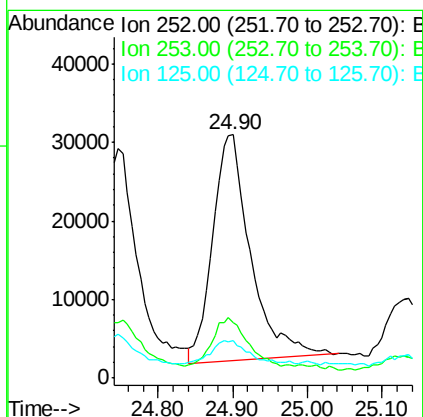
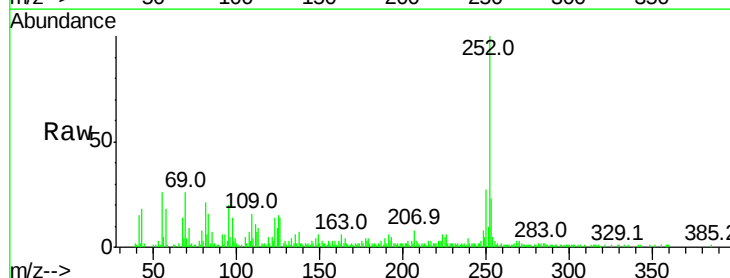
Delta R.T. 0.01 min

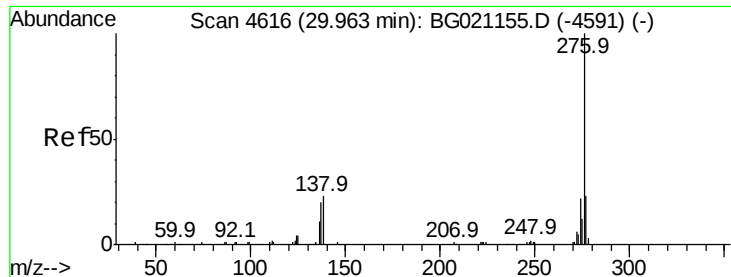
Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Tgt Ion:252 Resp: 101782

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.8	23.8
125	15.4	8.4	12.6#





#91

Benzo(a,h,i)perylene

Concen: 5.30 ng

RT: 29.98 min Scan# 4619

Delta R.T. 0.01 min

Lab File: BG021208.D

Acq: 2 Mar 2016 7:00

Instrument :

BNA_G

ClientSampleId :

P-10RE

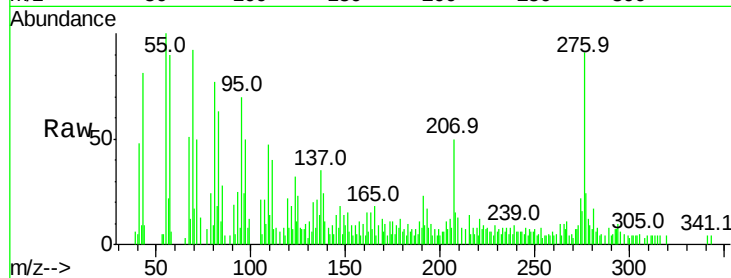
Tot Ion:276 Resp: 25173

Ion Ratio Lower Upper

276 100

277 26.0 16.6 25.0#

138 26.4 14.6 21.8#



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

