

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
 Data File : BG022267.D
 Acq On : 9 Jun 2016 13:53
 Operator : UM/SJ
 Sample : H3402-13 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SS-46

Quant Time: Jun 09 16:10:52 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 06 16:12:45 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	46916	20.00	ng	0.00
21) Naphthalene-d8	10.93	136	239304	20.00	ng	0.00
38) Acenaphthene-d10	14.75	164	132708	20.00	ng	0.00
63) Phenanthrene-d10	17.49	188	248710	20.00	ng	0.00
75) Chrysene-d12	21.77	240	209607	20.00	ng	0.00
86) Perylene-d12	25.08	264	197782	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	108668	44.78	ng	0.00
7) Phenol-d6	7.28	99	172859	45.31	ng	0.00
23) Nitrobenzene-d5	9.29	82	98965	28.83	ng	0.00
41) 2,4,6-Tribromophenol	16.23	330	74883	49.94	ng	0.00
44) 2-Fluorobiphenyl	13.37	172	261382	30.02	ng	0.00
78) Terphenyl-d14	20.08	244	382104	43.28	ng	0.00

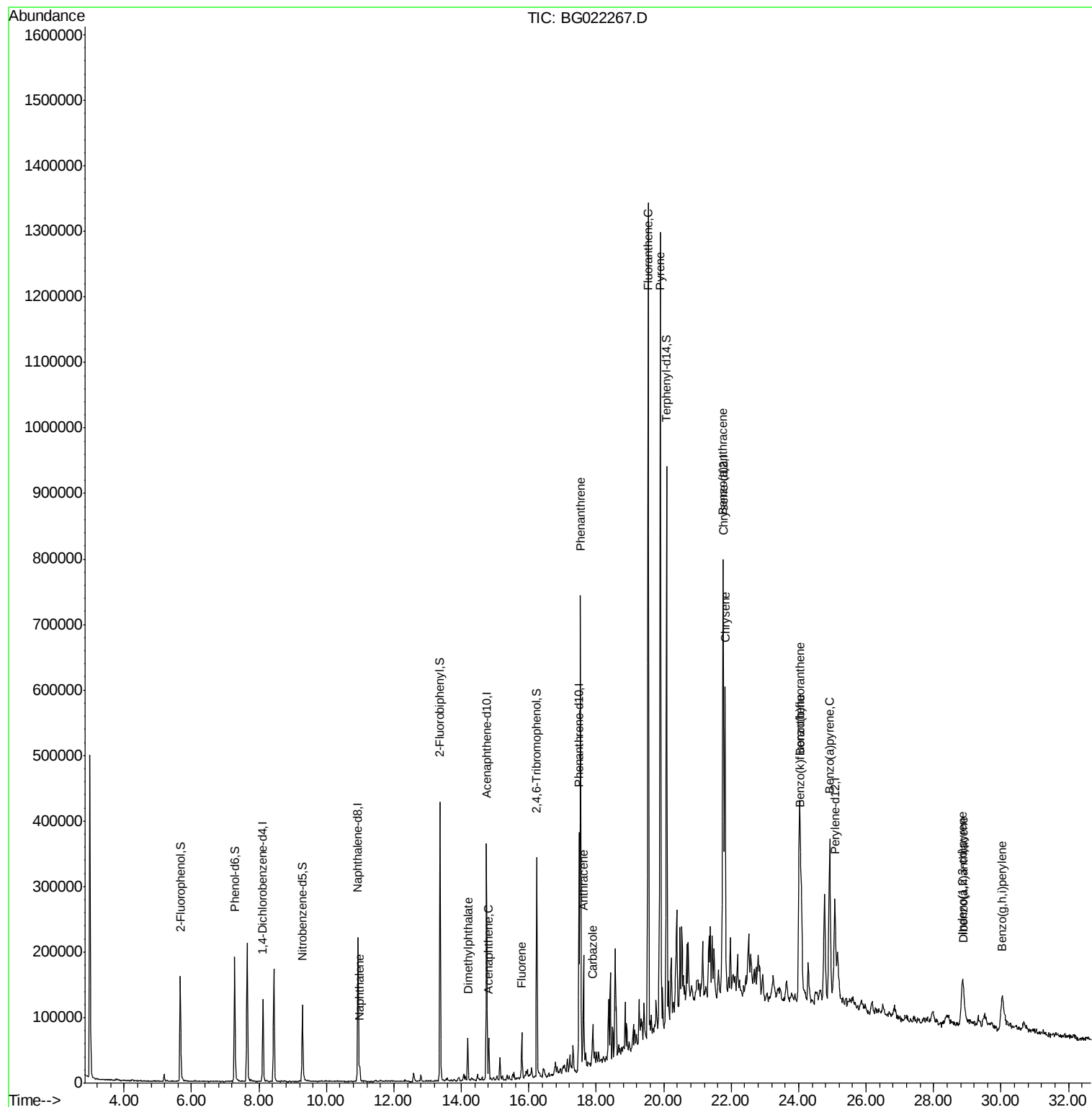
Target Compounds						Qvalue	
31) Naphthalene	10.99	128	25556	2.14	ng	#	94
49) Dimethylphthalate	14.19	163	53451	4.86	ng		99
51) Acenaphthene	14.81	154	26081	3.24	ng		96
57) Fluorene	15.79	166	36625	3.39	ng		96
70) Phenanthrene	17.53	178	500527	37.05	ng		98
71) Anthracene	17.62	178	122951	9.18	ng		97
72) Carbazole	17.90	167	49835	3.93	ng		96
74) Fluoranthene	19.54	202	827973	53.32	ng		94
77) Pyrene	19.90	202	791682	60.75	ng		98
80) Benzo(a)anthracene	21.75	228	391544	33.31	ng		98
82) Chrysene	21.82	228	336266	29.40	ng		97
85) Indeno(1,2,3-cd)pyrene	28.87	276	168290m	13.12	ng		
87) Benzo(b)fluoranthene	24.03	252	381614m	33.08	ng		
88) Benzo(k)fluoranthene	24.06	252	180026m	15.85	ng		
89) Benzo(a)pyrene	24.92	252	301940	27.38	ng	#	94
90) Dibenzo(a,h)anthracene	28.88	278	33384	3.21	ng	#	82
91) Benzo(a,h,i)perylene	30.05	276	164806m	15.25	ng		

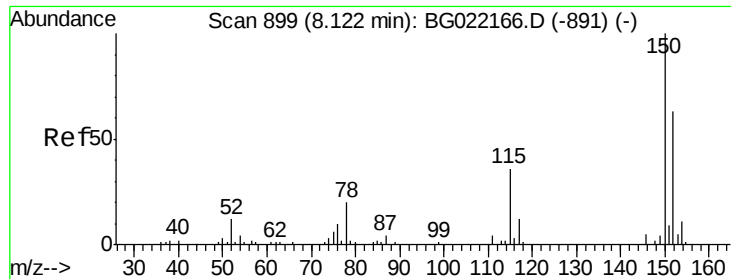
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.12 min Scan# 899

Delta R.T. -0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampled :

SS-46

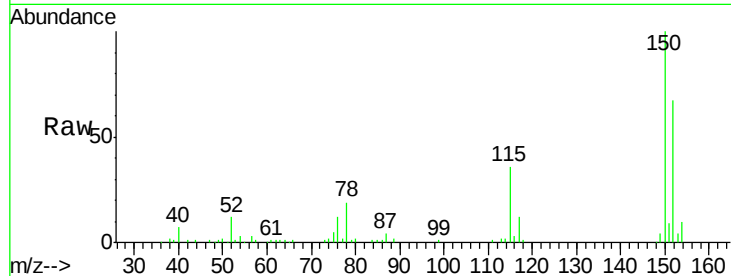
Tot Ion:152 Resp: 46916

Ion Ratio Lower Upper

152 100

150 149.1 130.1 195.1

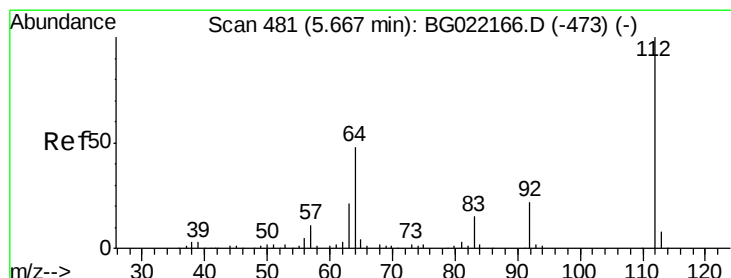
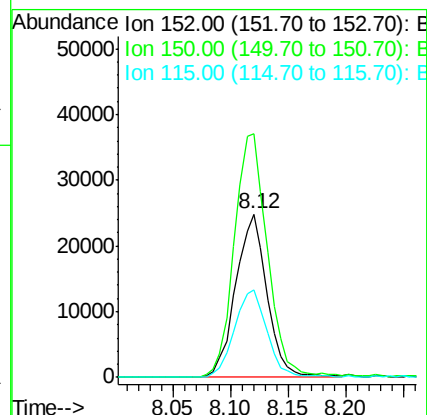
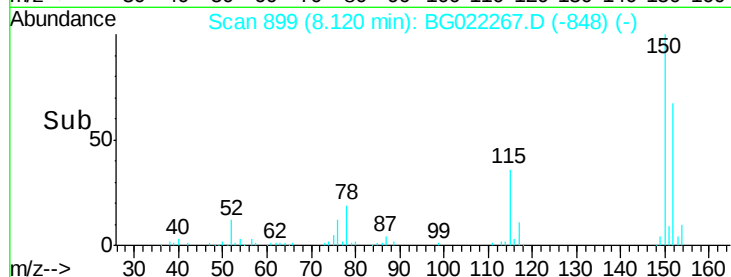
115 53.6 62.2 93.2#



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: 44.78 ng

RT: 5.66 min Scan# 481

Delta R.T. -0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

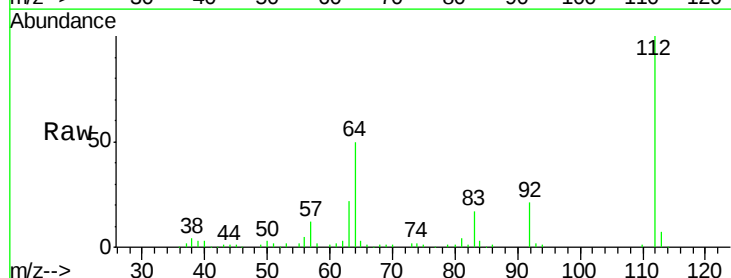
Tgt Ion:112 Resp: 108668

Ion Ratio Lower Upper

112 100

64 49.5 51.1 76.7#

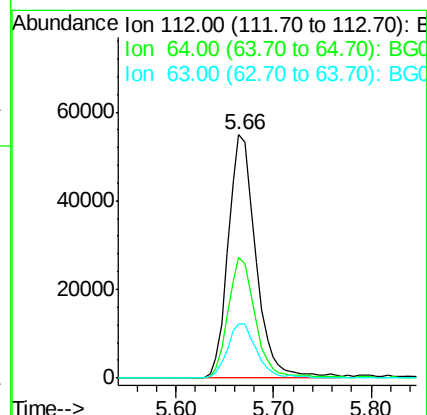
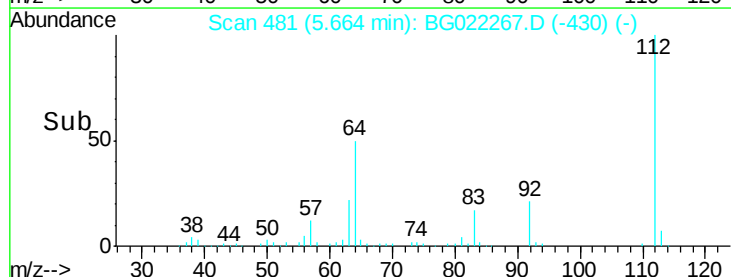
63 22.3 24.6 37.0#



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: 45.31 ng

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampled :

SS-46

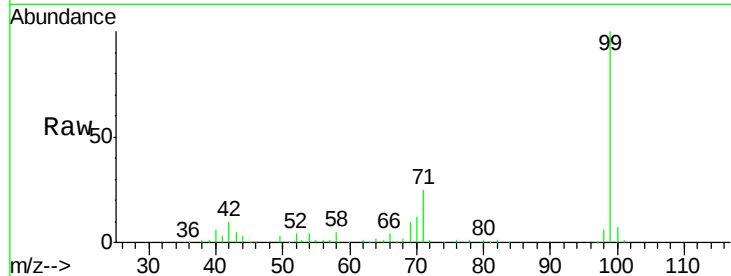
Tot Ion: 99 Resp: 172859

Ion Ratio Lower Upper

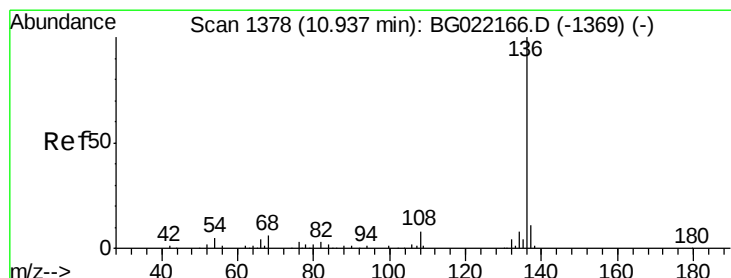
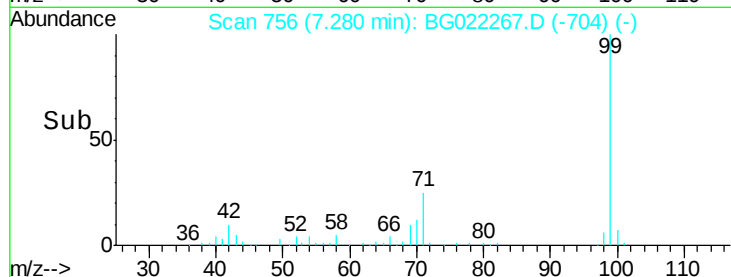
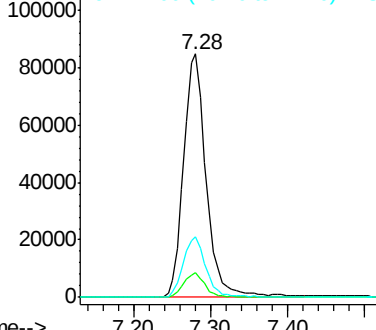
99 100

42 9.9 16.4 24.6#

71 24.9 25.0 37.4#



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: 10.93 min Scan# 1378

Delta R.T. -0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Tgt Ion: 136 Resp: 239304

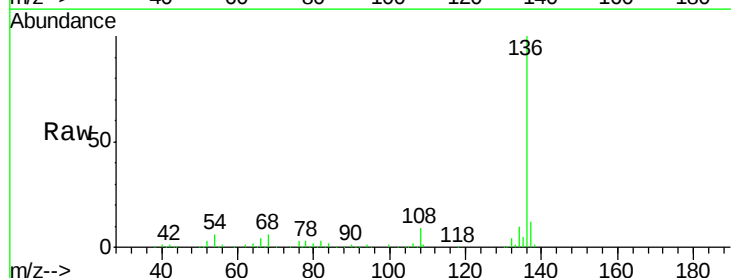
Ion Ratio Lower Upper

136 100

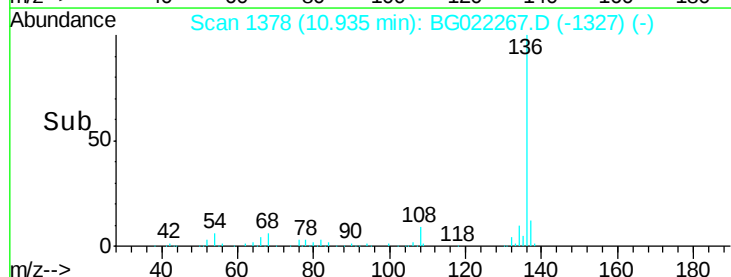
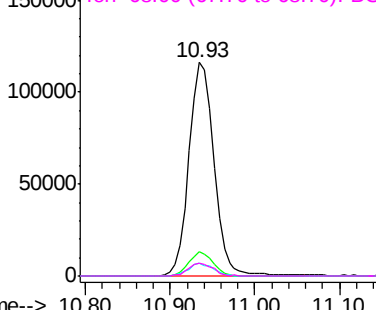
137 11.7 9.0 13.4

54 5.8 9.6 14.4#

68 6.0 6.4 9.6#



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

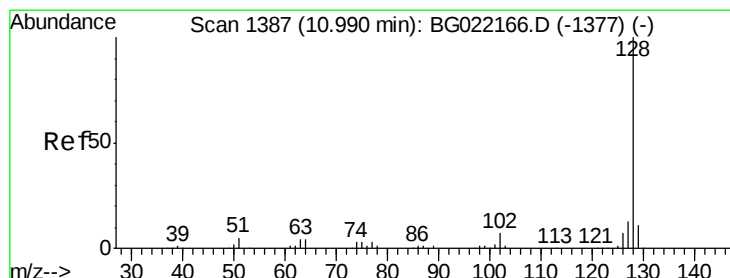
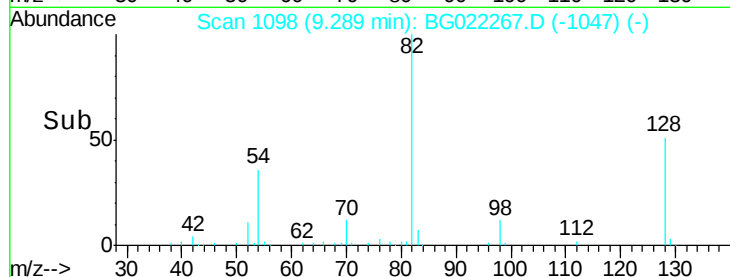
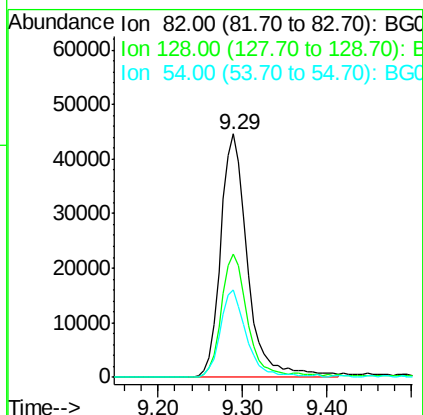
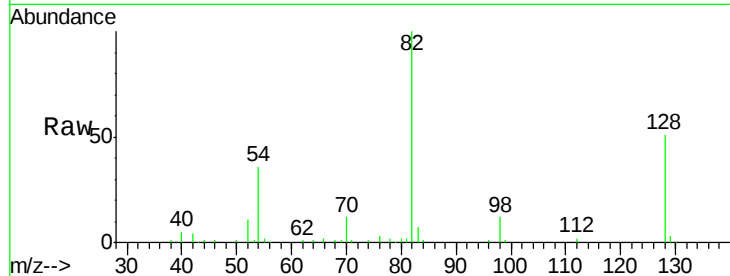




#23
Nitrobenzene-d5
Concen: 28.83 ng
RT: 9.29 min Scan# 1098
Delta R.T. -0.00 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

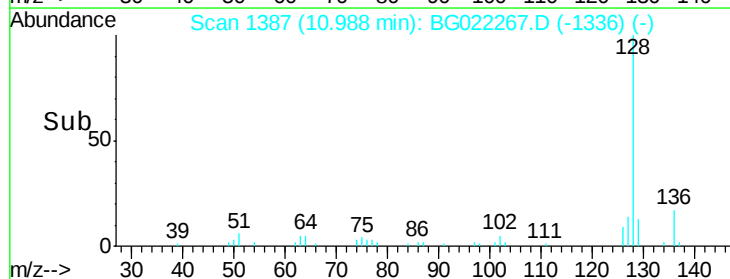
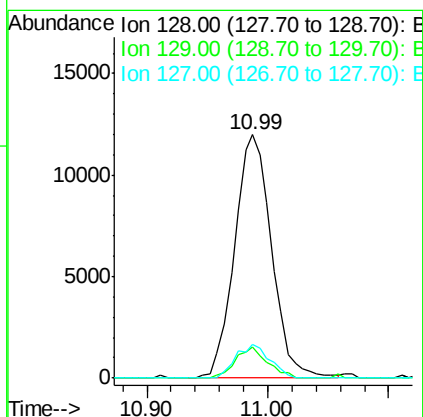
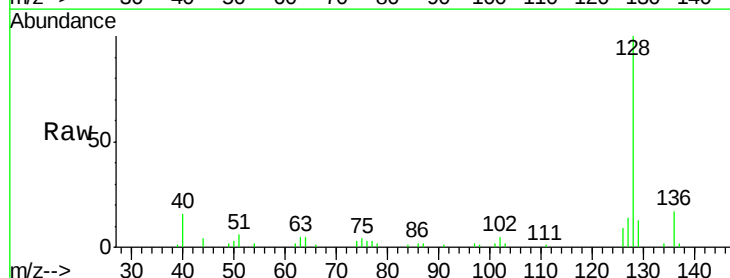
Instrument :
BNA_G
ClientSampled :
SS-46

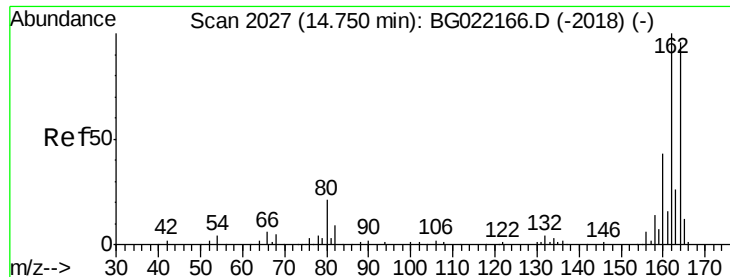
Tot Ion: 82 Resp: 98965
Ion Ratio Lower Upper
82 100
128 50.8 33.4 50.0#
54 36.1 46.1 69.1#



#31
Naphthalene
Concen: 2.14 ng
RT: 10.99 min Scan# 1387
Delta R.T. -0.00 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

Tgt Ion: 128 Resp: 25556
Ion Ratio Lower Upper
128 100
129 12.6 7.0 10.6#
127 13.9 10.1 15.1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.75 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

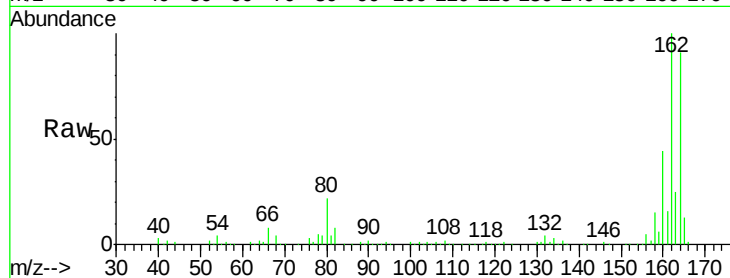
Tot Ion:164 Resp: 132708

Ion Ratio Lower Upper

164 100

162 109.4 78.0 117.0

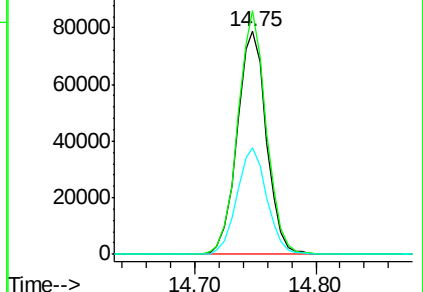
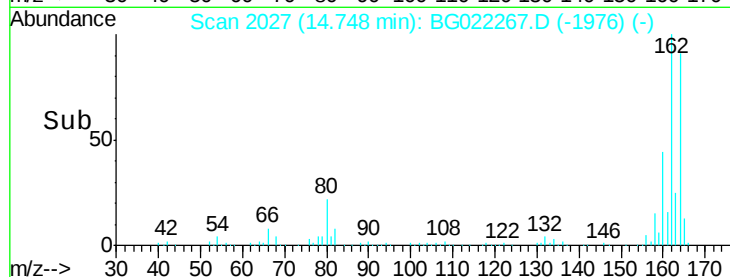
160 47.7 32.9 49.3



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: 49.94 ng

RT: 16.23 min Scan# 2280

Delta R.T. -0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

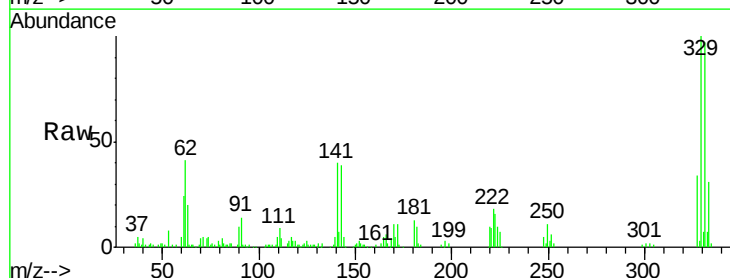
Tgt Ion:330 Resp: 74883

Ion Ratio Lower Upper

330 100

332 95.0 78.0 117.0

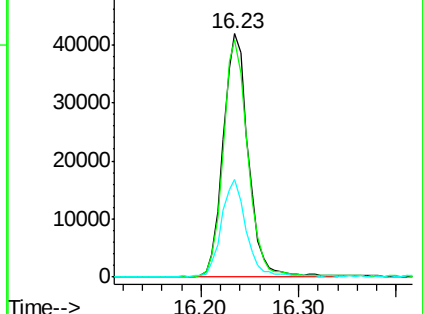
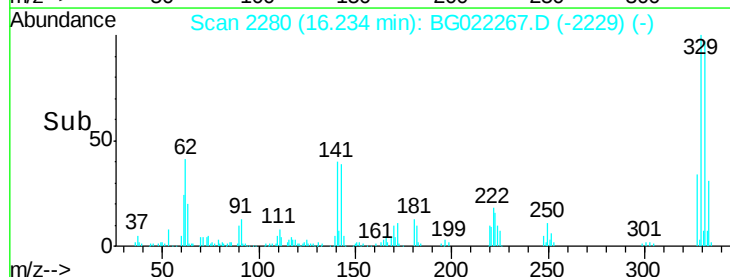
141 39.7 33.8 50.8

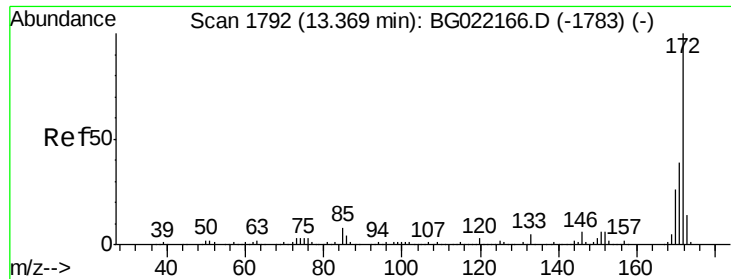


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

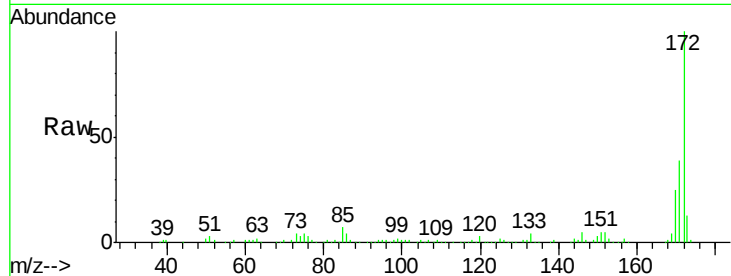




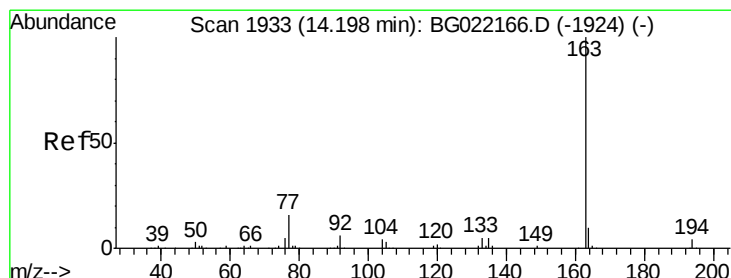
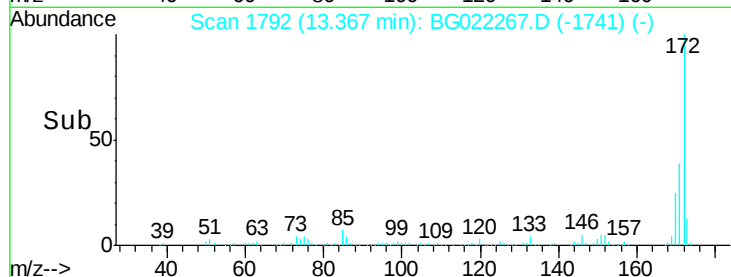
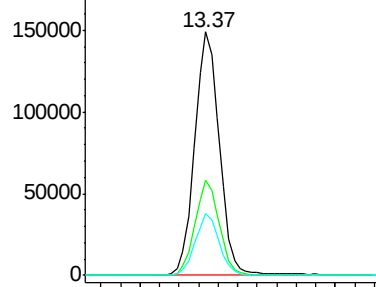
#44
2-Fluorobiphenyl
Concen: 30.02 ng
RT: 13.37 min Scan# 1792
Delta R.T. -0.00 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

Instrument :
BNA_G
ClientSampleId :
SS-46

Tot Ion	Ratio	Lower	Upper
172	100		
171	39.2	27.8	41.6
170	25.4	19.6	29.4

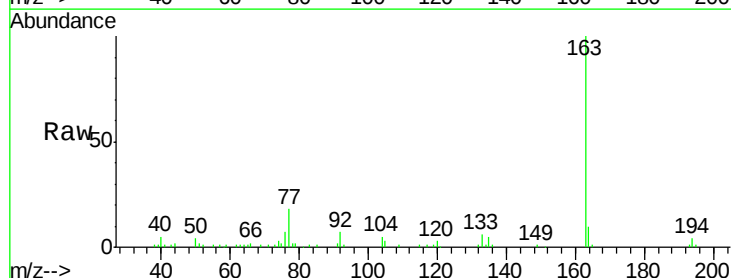


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

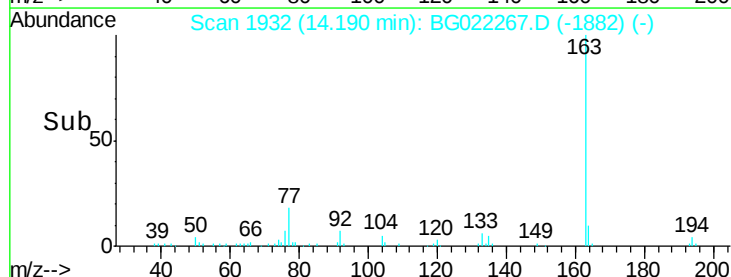
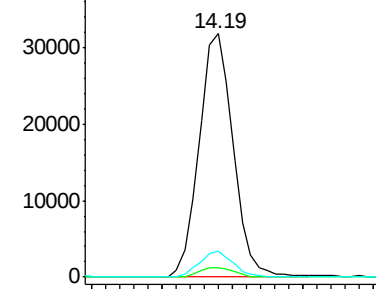


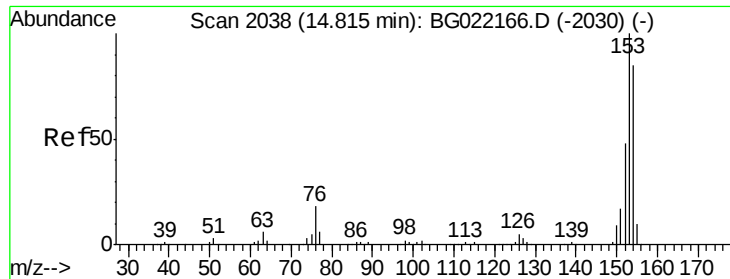
#49
Dimethylphthalate
Concen: 4.86 ng
RT: 14.19 min Scan# 1932
Delta R.T. -0.01 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.0	4.6
164	10.4	8.1	12.1



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 3.24 ng

RT: 14.81 min Scan# 2038

Delta R.T. -0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampled :

SS-46

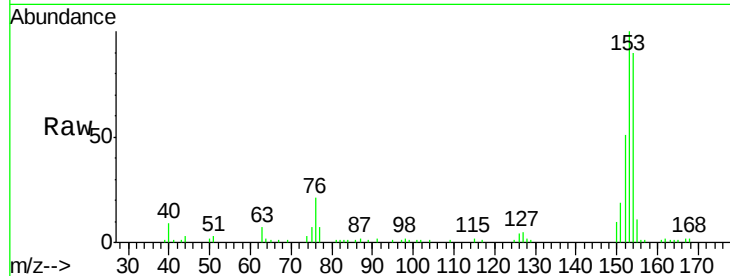
Tot Ion:154 Resp: 26081

Ion Ratio Lower Upper

154 100

153 110.5 91.9 137.9

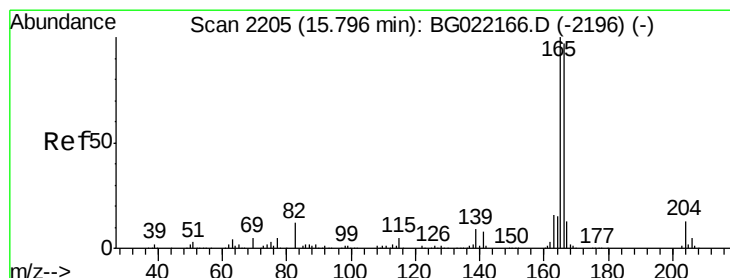
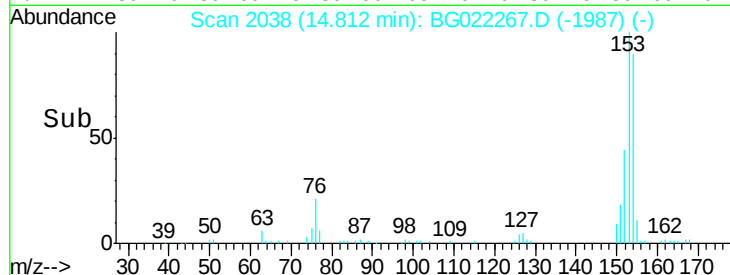
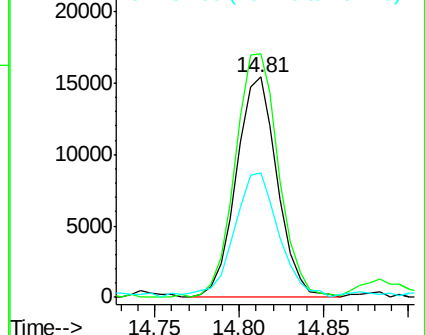
152 56.4 42.0 63.0



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



#57

Fluorene

Concen: 3.39 ng

RT: 15.79 min Scan# 2204

Delta R.T. -0.01 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

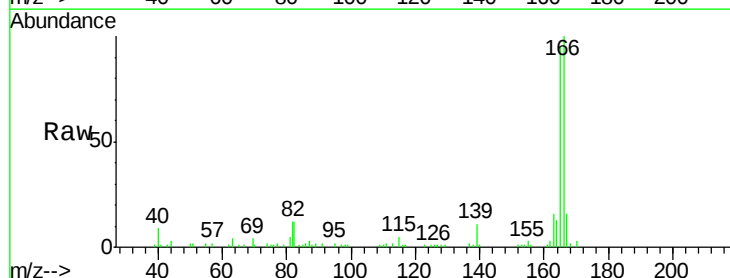
Tgt Ion:166 Resp: 36625

Ion Ratio Lower Upper

166 100

165 94.5 79.0 118.4

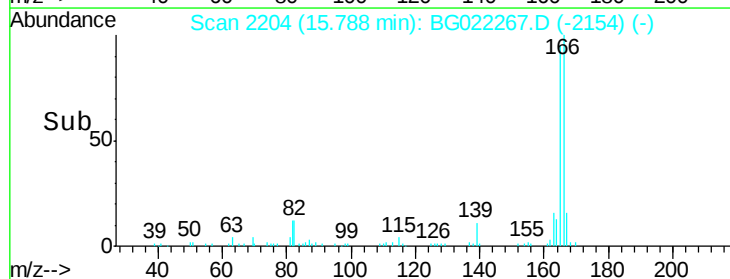
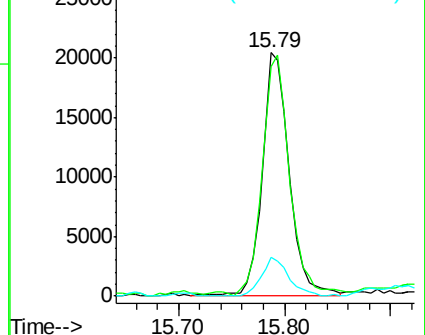
167 15.8 10.7 16.1

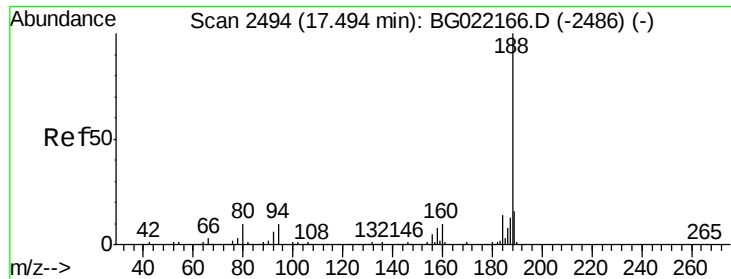


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

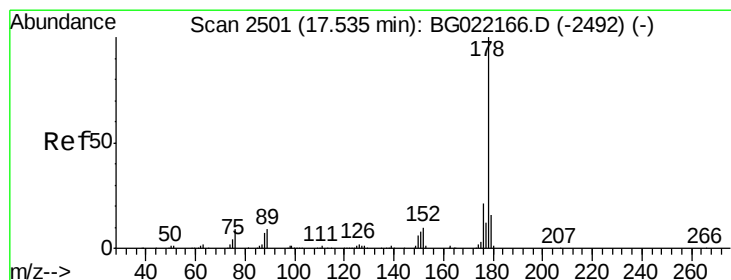
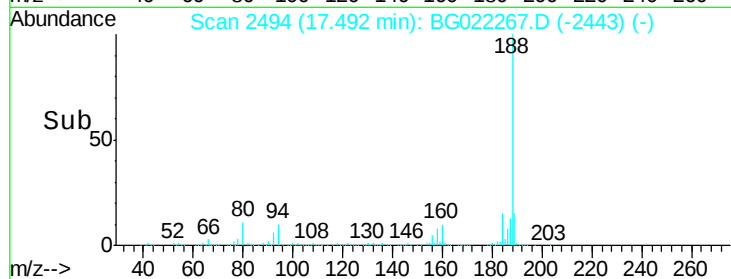
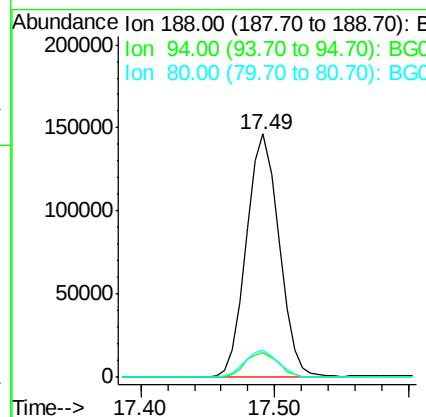
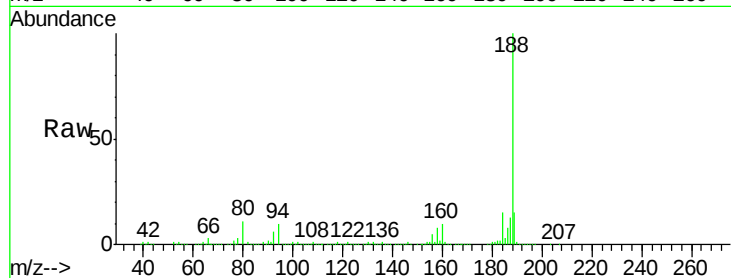




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.49 min Scan# 2494
Delta R.T. -0.00 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

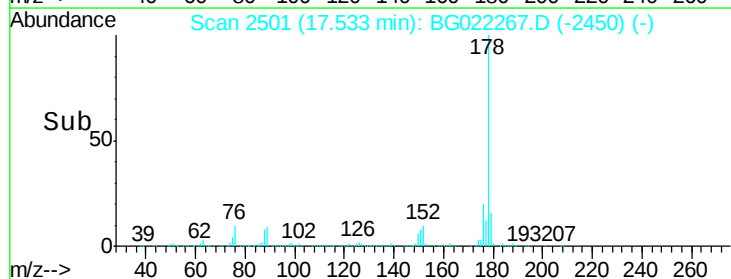
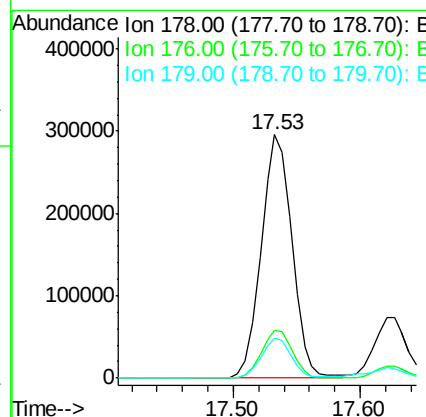
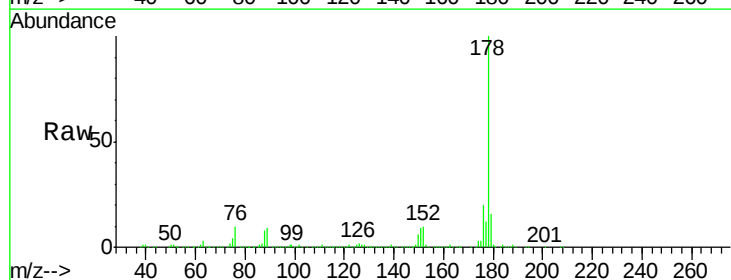
Instrument :
BNA_G
ClientSampleId :
SS-46

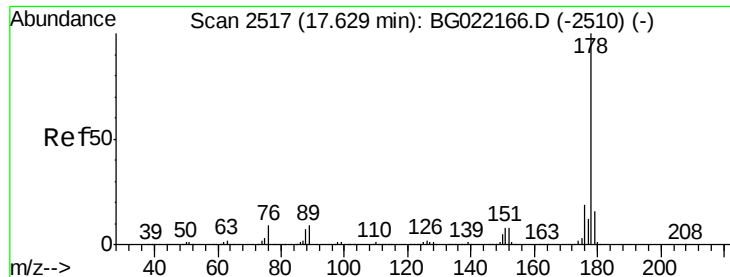
Tot Ion:188 Resp: 248710
Ion Ratio Lower Upper
188 100
94 10.4 7.5 11.3
80 11.4 8.6 13.0



#70
Phenanthrene
Concen: 37.05 ng
RT: 17.53 min Scan# 2501
Delta R.T. -0.00 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

Tgt Ion:178 Resp: 500527
Ion Ratio Lower Upper
178 100
176 19.9 16.2 24.4
179 16.3 12.0 18.0

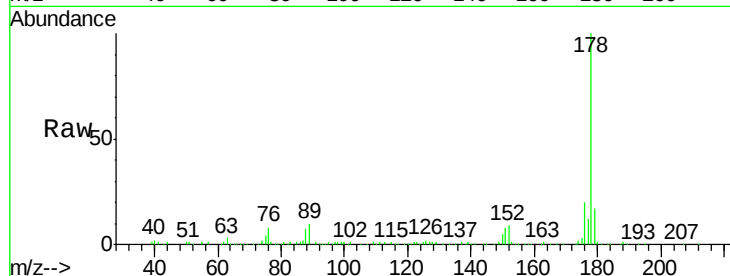




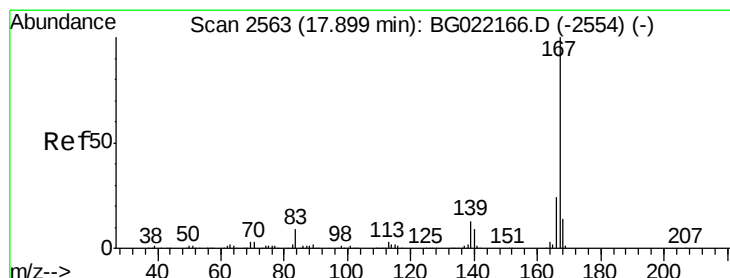
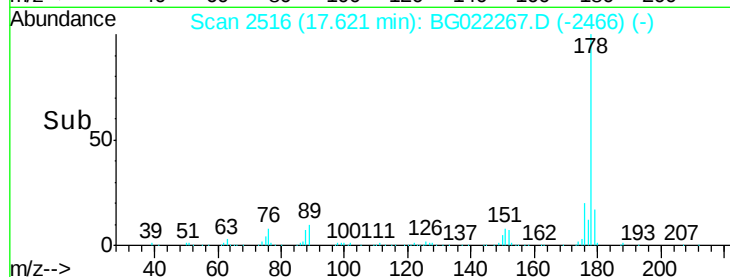
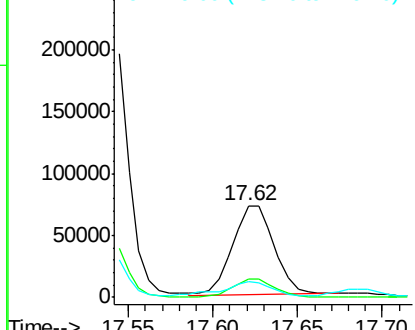
#71
 Anthracene
 Concen: 9.18 ng
 RT: 17.62 min Scan# 2516
 Delta R.T. -0.01 min
 Lab File: BG022267.D
 Acq: 9 Jun 2016 13:53

Instrument :
 BNA_G
 ClientSampleId :
 SS-46

Tot Ion:178 Resp: 122951
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.0 22.4
 179 16.8 12.2 18.4

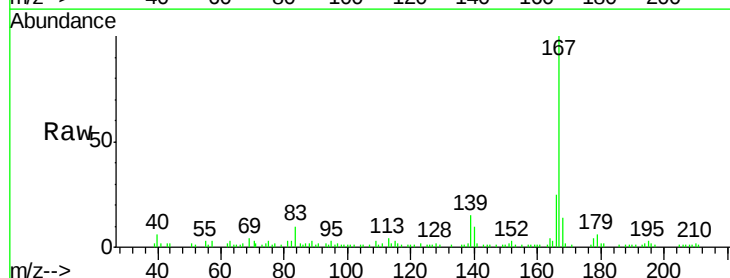


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

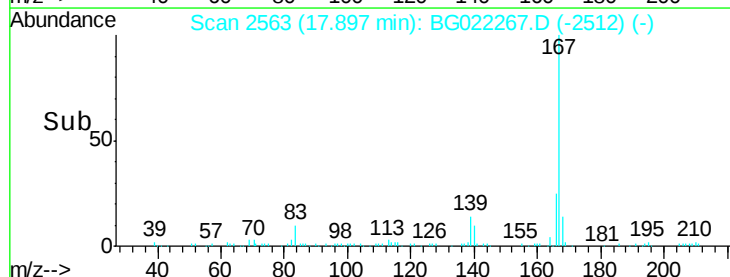
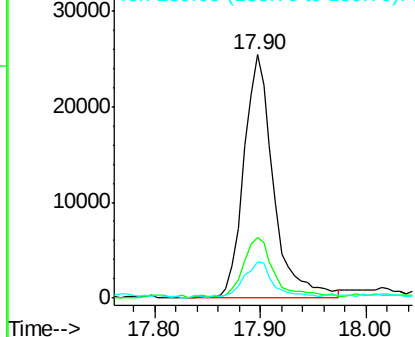


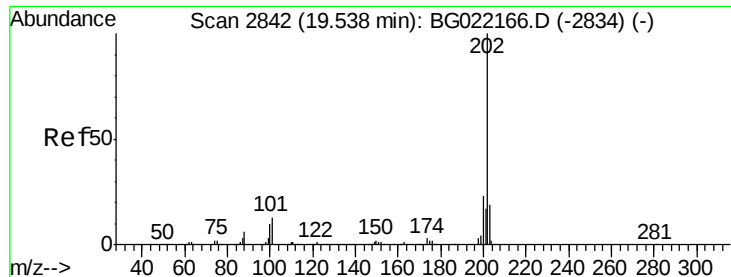
#72
 Carbazole
 Concen: 3.93 ng
 RT: 17.90 min Scan# 2563
 Delta R.T. -0.00 min
 Lab File: BG022267.D
 Acq: 9 Jun 2016 13:53

Tgt Ion:167 Resp: 49835
 Ion Ratio Lower Upper
 167 100
 166 24.9 18.6 27.8
 139 15.0 10.6 15.8



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: 53.32 ng

RT: 19.54 min Scan# 2842

Delta R.T. -0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

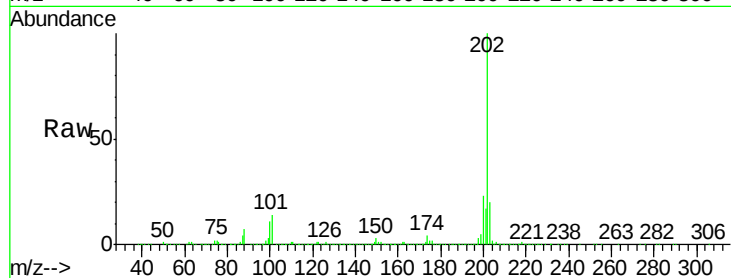
Tot Ion:202 Resp: 827973

Ion Ratio Lower Upper

202 100

101 13.9 0.0 31.0

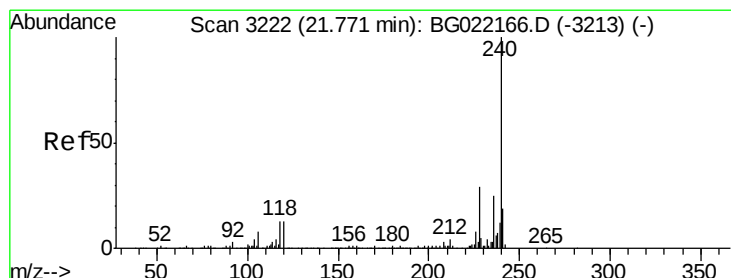
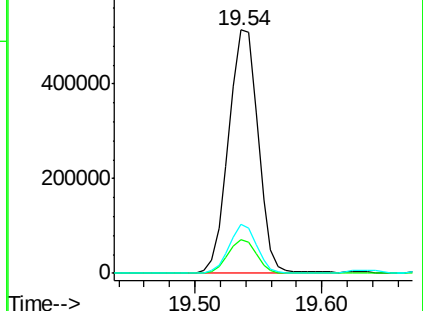
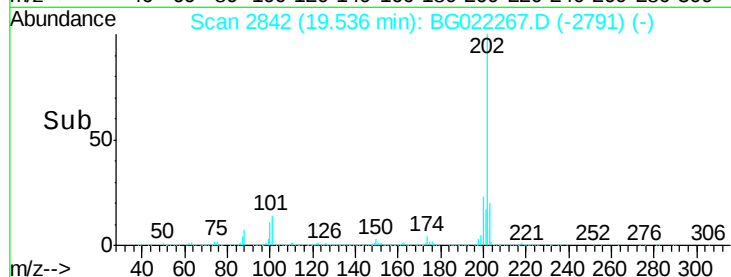
203 20.2 0.0 37.9



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: BG022267.D

Acq: 9 Jun 2016 13:53

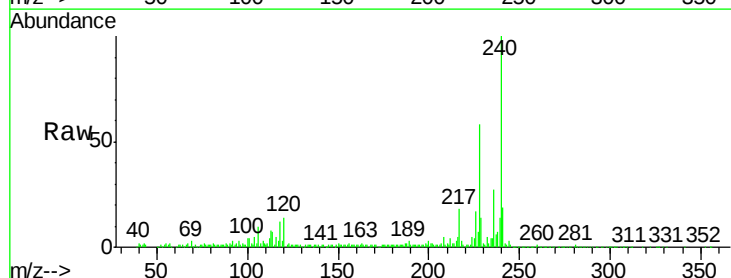
Tgt Ion:240 Resp: 209607

Ion Ratio Lower Upper

240 100

120 13.7 8.4 12.6#

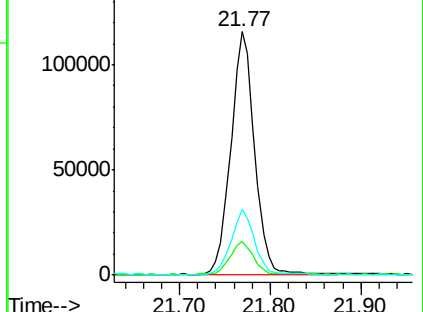
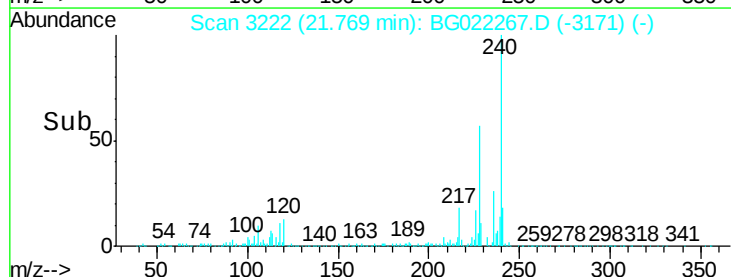
236 26.9 19.6 29.4

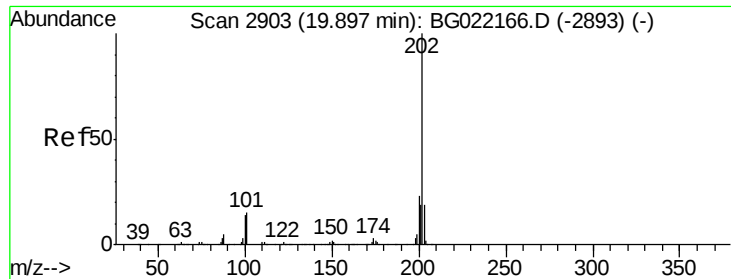


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 60.75 ng

RT: 19.90 min Scan# 2904

Delta R.T. 0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

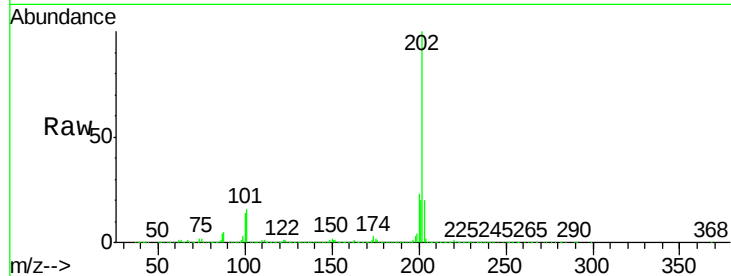
Tot Ion:202 Resp: 791682

Ion Ratio Lower Upper

202 100

200 23.5 18.2 27.2

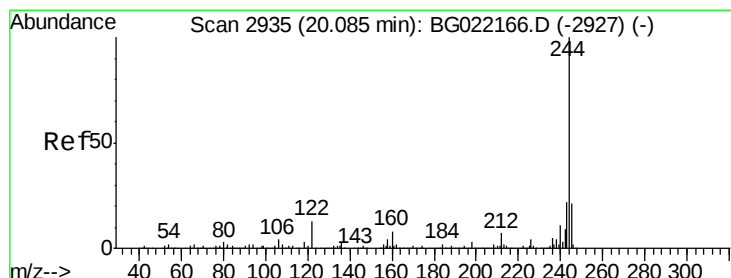
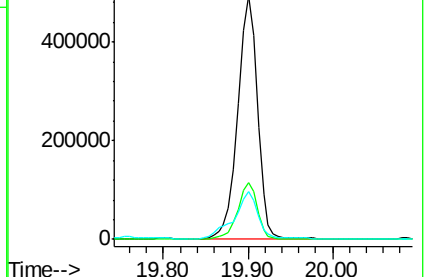
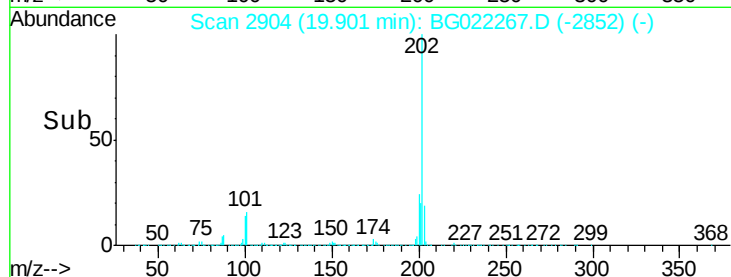
203 19.7 15.0 22.4



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: 43.28 ng

RT: 20.08 min Scan# 2935

Delta R.T. -0.00 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

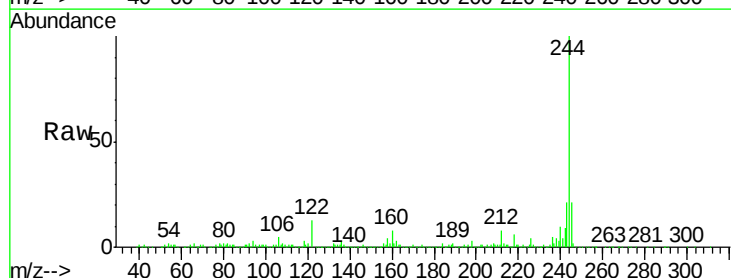
Tgt Ion:244 Resp: 382104

Ion Ratio Lower Upper

244 100

212 7.8 6.5 9.7

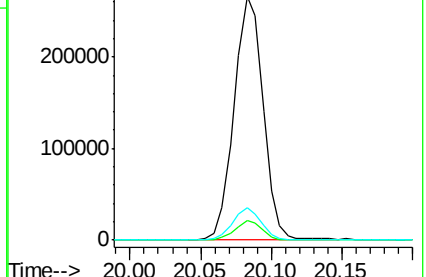
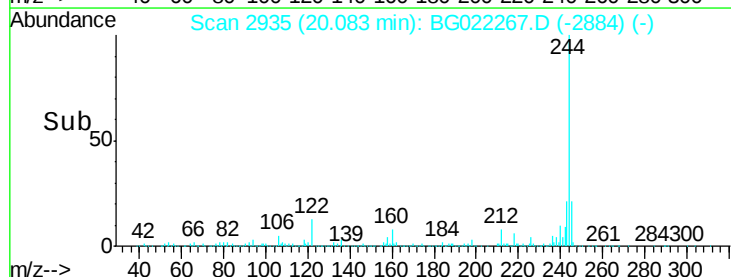
122 13.2 8.6 12.8#

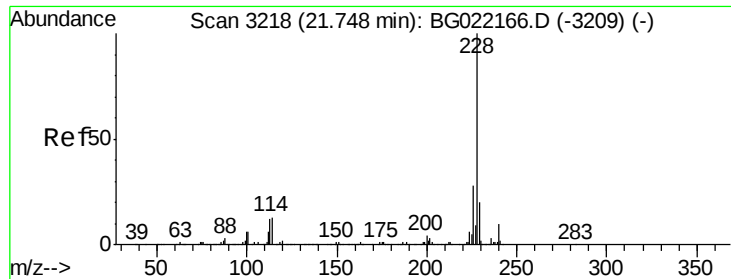


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

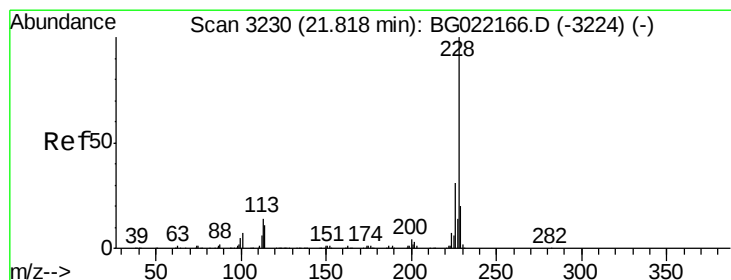
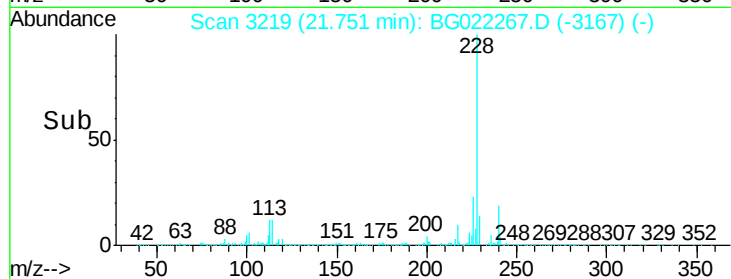
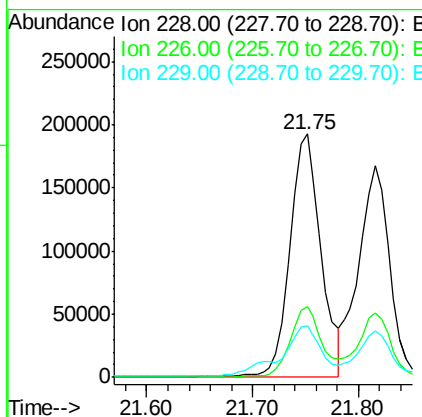
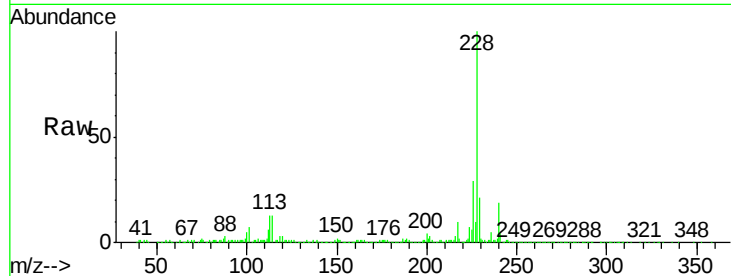




#80
Benzo(a)anthracene
Concen: 33.31 ng
RT: 21.75 min Scan# 3219
Delta R.T. 0.00 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

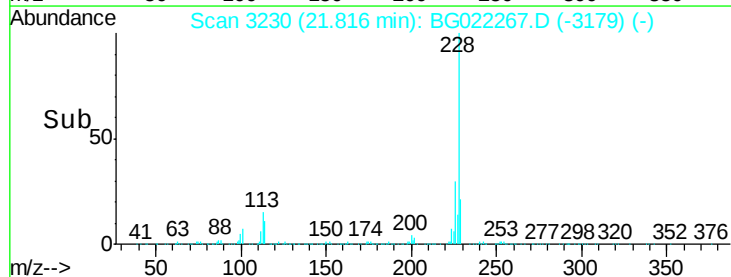
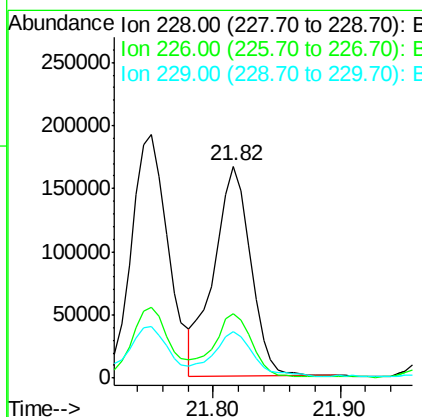
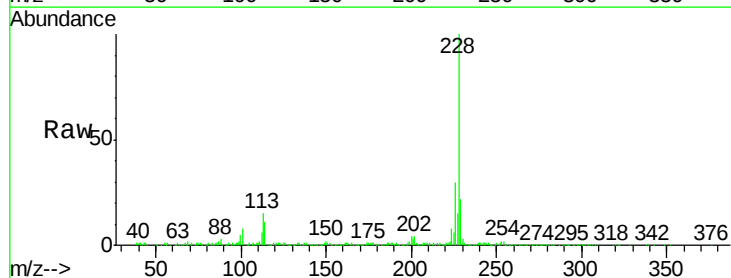
Instrument :
BNA_G
ClientSampleId :
SS-46

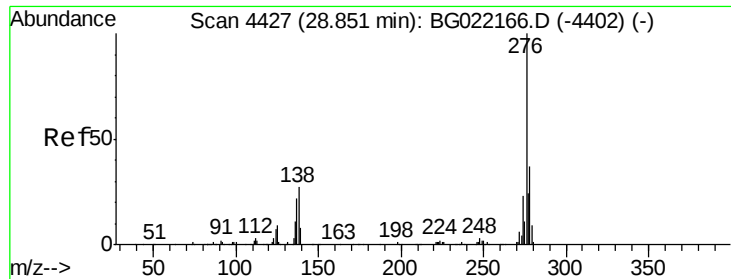
Tot Ion:228 Resp: 391544
Ion Ratio Lower Upper
228 100
226 28.9 22.6 34.0
229 21.3 16.1 24.1



#82
Chrysene
Concen: 29.40 ng
RT: 21.82 min Scan# 3230
Delta R.T. -0.00 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

Tgt Ion:228 Resp: 336266
Ion Ratio Lower Upper
228 100
226 30.1 25.4 38.0
229 21.8 15.9 23.9

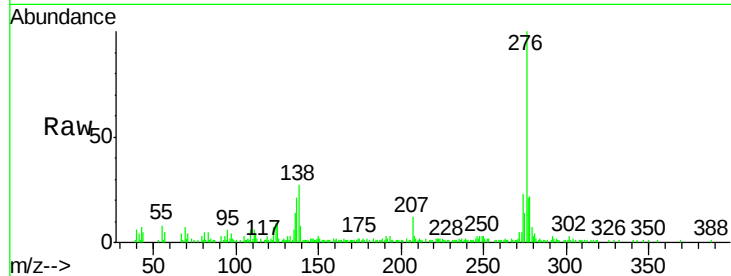




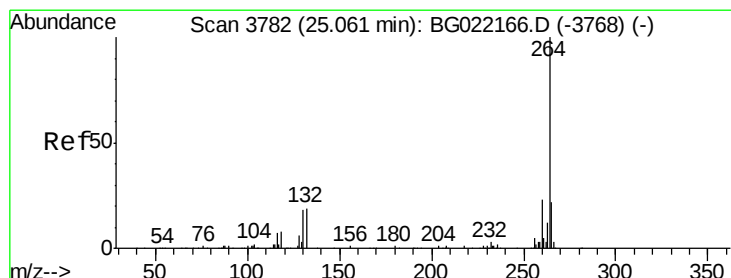
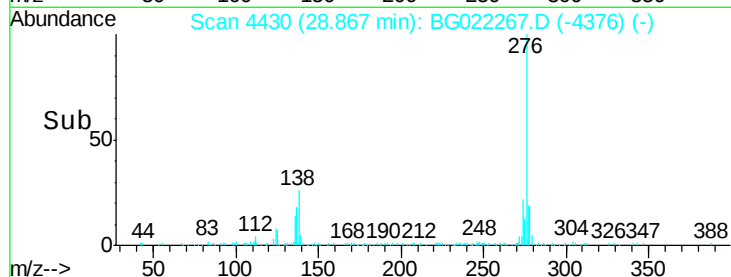
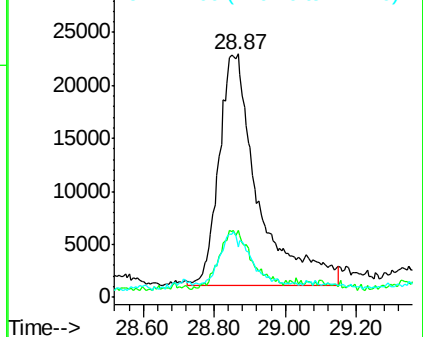
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.12 ng/ml
 RT: 28.87 min Scan# 4430
 Delta R.T. 0.02 min
 Lab File: BG022267.D
 Acq: 9 Jun 2016 13:53

Instrument :
 BNA_G
 ClientSampleId :
 SS-46

Tot Ion:276 Resp: 168290
 Ion Ratio Lower Upper
 276 100
 138 0.0 14.0 21.0#
 277 9.8 20.6 30.8#

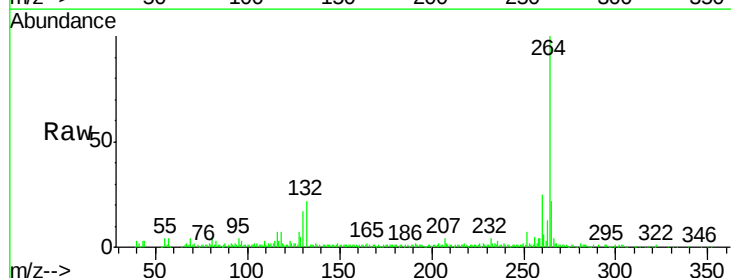


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

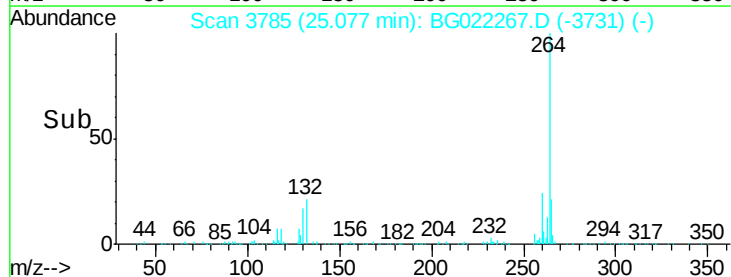
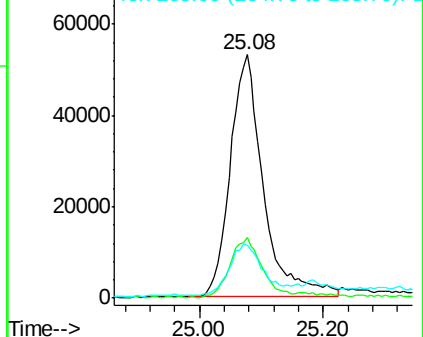


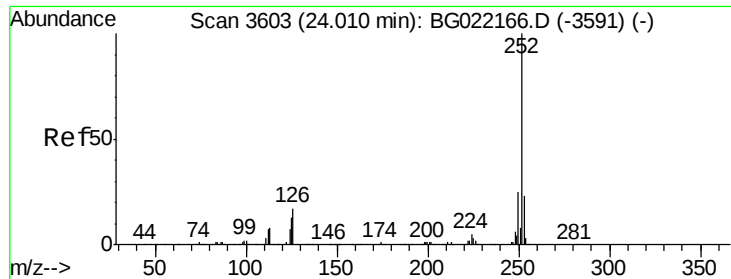
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 25.08 min Scan# 3785
 Delta R.T. 0.02 min
 Lab File: BG022267.D
 Acq: 9 Jun 2016 13:53

Tgt Ion:264 Resp: 197782
 Ion Ratio Lower Upper
 264 100
 260 24.8 20.2 30.4
 265 21.8 17.8 26.8



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

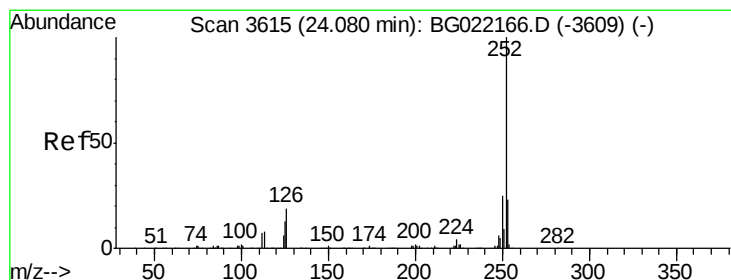
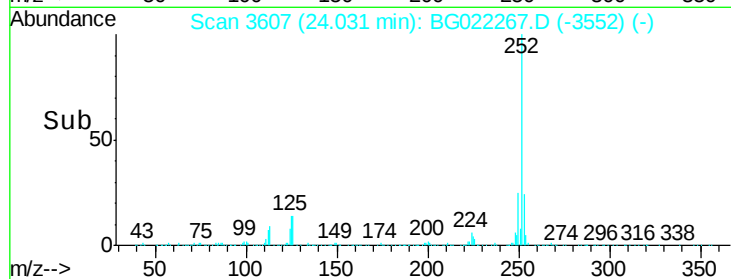
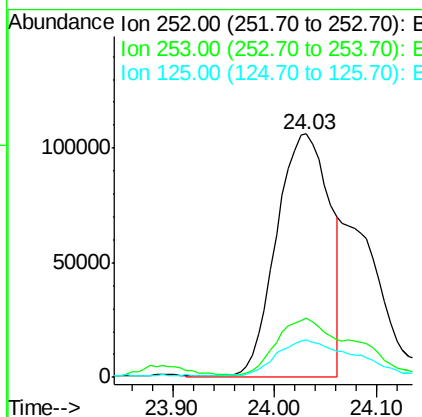
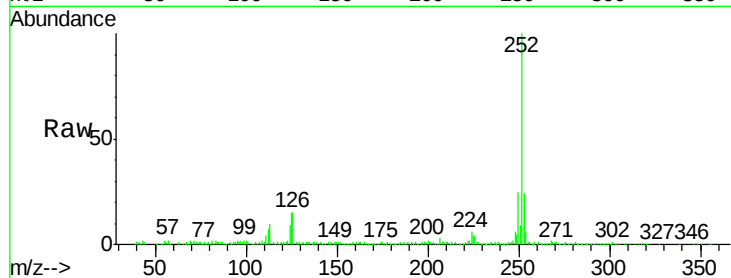




#87
Benzo(b)fluoranthene
Concen: 33.08 ng m
RT: 24.03 min Scan# 3607
Delta R.T. 0.02 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

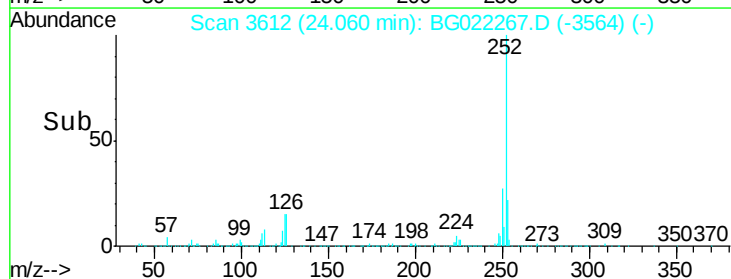
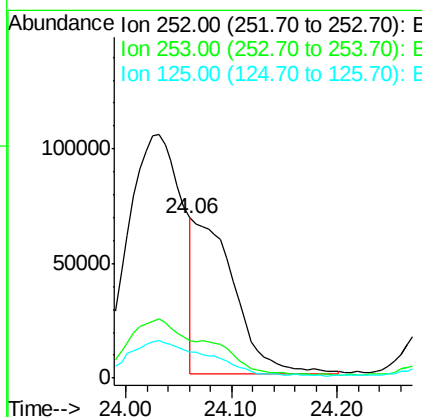
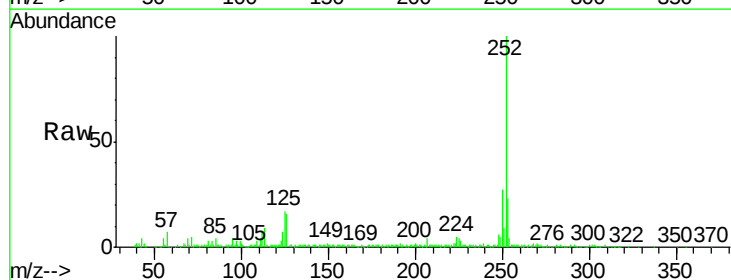
Instrument :
BNA_G
ClientSampled :
SS-46

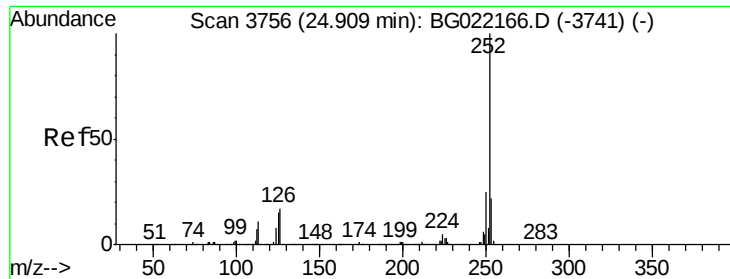
Tot Ion:252 Resp: 381614
Ion Ratio Lower Upper
252 100
253 24.2 17.5 26.3
125 15.4 8.6 13.0#



#88
Benzo(k)fluoranthene
Concen: 15.85 ng m
RT: 24.06 min Scan# 3612
Delta R.T. -0.02 min
Lab File: BG022267.D
Acq: 9 Jun 2016 13:53

Tgt Ion:252 Resp: 180026
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 16.6 8.3 12.5#





#89

Benzo(a)pyrene

Concen: 27.38 ng

RT: 24.92 min Scan# 3758

Delta R.T. 0.01 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

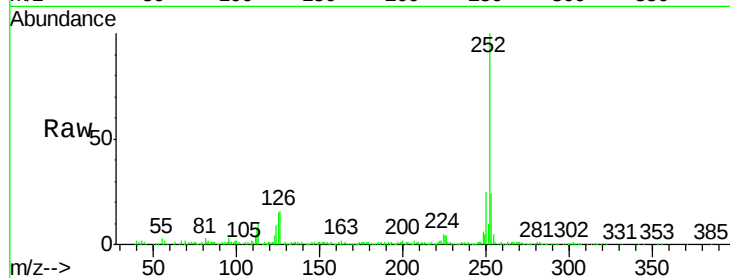
Tot Ion:252 Resp: 301940

Ion Ratio Lower Upper

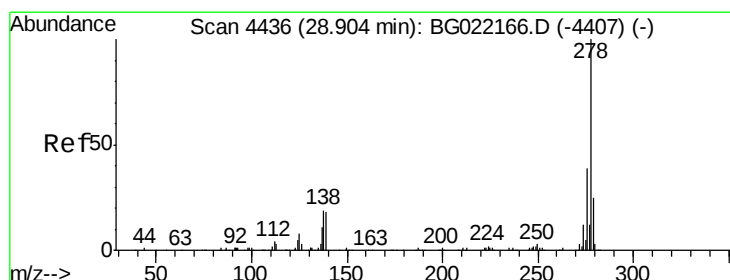
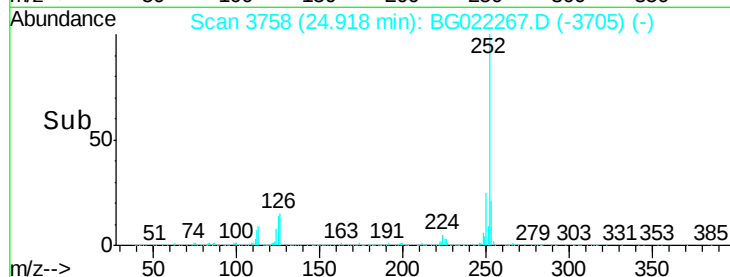
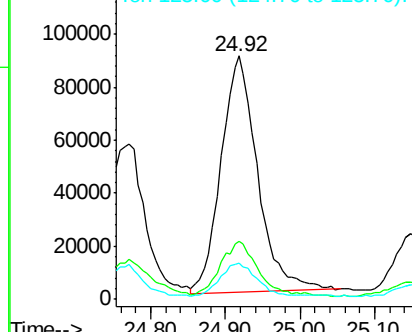
252 100

253 23.8 17.1 25.7

125 14.7 9.6 14.4#



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: 3.21 ng

RT: 28.88 min Scan# 4433

Delta R.T. -0.02 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

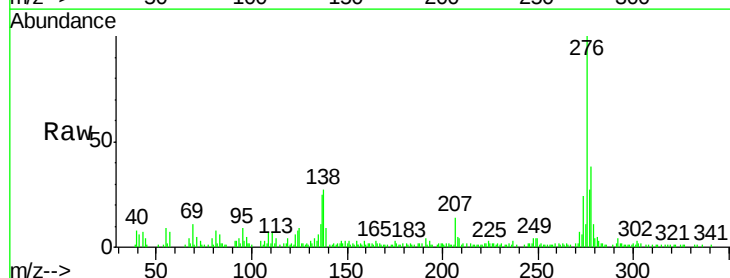
Tgt Ion:278 Resp: 33384

Ion Ratio Lower Upper

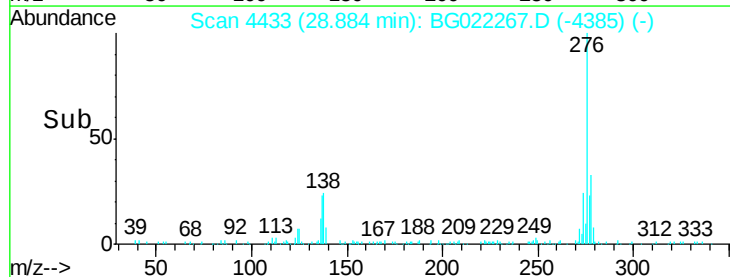
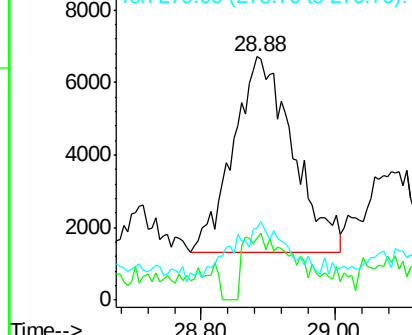
278 100

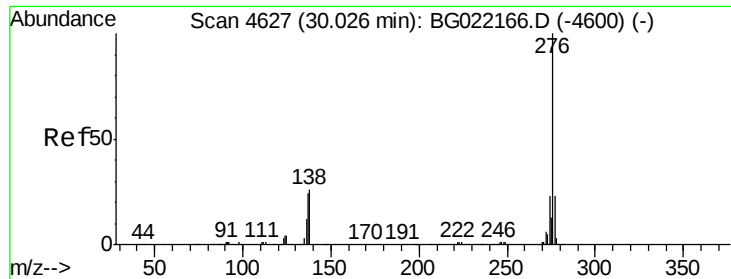
139 25.2 11.9 17.9#

279 29.6 18.2 27.2#



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: 15.25 ng/ml

RT: 30.05 min Scan# 4631

Delta R.T. 0.02 min

Lab File: BG022267.D

Acq: 9 Jun 2016 13:53

Instrument :

BNA_G

ClientSampleId :

SS-46

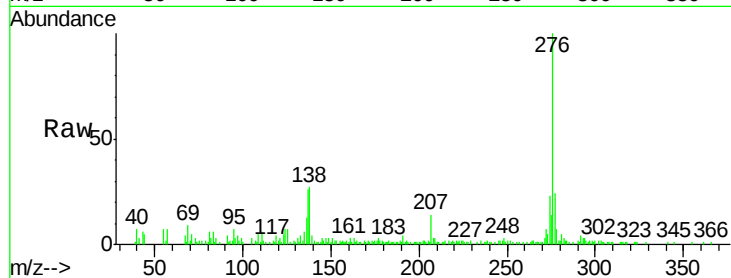
Tot Ion: 276 Resp: 164806

Ion Ratio Lower Upper

276 100

277 24.3 19.4 29.2

138 27.3 17.4 26.0



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

