

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
 Data File : BG020217.D
 Acq On : 16 Dec 2015 9:07
 Operator : UM/SJ
 Sample : G4767-07
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N29

Quant Time: Dec 17 00:39:52 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 17 00:37:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	50078	20.00	ng/ul	0.00
18) Naphthalene-d8	10.93	136	215890	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.73	164	150041	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.48	188	308729	20.00	ng/ul	0.02
78) Chrysene-d12	21.75	240	367758	20.00	ng/ul	0.01
86) Perylene-d12	25.02	264	357605	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	2366	2.61	ng/uL	0.00
5) Phenol-d5	7.25	99	70563	15.98	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	45563	17.29	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	55934	17.42	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	61036	16.16	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	32816	19.50	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	38303	20.45	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	67126	17.70	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	80889	18.98	ng/ul	0.00
44) Dimethylphthalate-d6	14.14	166	212576	17.52	ng/ul	0.01
47) Acenaphthylene-d8	14.43	160	241212	17.08	ng/ul	0.00
52) 4-Nitrophenol-d4	14.93	143	32535	14.95	ng/ul	0.01
58) Fluorene-d10	15.73	176	183913	16.71	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	136	0.07	ng/ul	0.00
71) Anthracene-d10	17.61	188	250098	17.58	ng/ul	0.04
79) Pyrene-d10	19.86	212	301209	17.57	ng/ul	0.02
90) Benzo(a)pyrene-d12	24.80	264	334141	18.73	ng/ul	0.01

Target Compounds

						Qvalue
17) Hexachloroethane	9.20	117	3448	2.44	ng/ul#	1
28) Naphthalene	11.00	128	3787887	335.98	ng/ul#	74
30) 4-Chloroaniline	11.00	127	729622	167.74	ng/ul#	12
34) 2-Methylnaphthalene	12.59	142	2439561	283.29	ng/ul	99
35) 1-Methylnaphthalene	12.80	142	1233539	148.99	ng/ul#	96
41) 1,1'-Biphenyl	13.57	154	1103317	97.47	ng/ul	98
43) 2-Nitroaniline	13.76	65	6130	1.99	ng/ul#	33
45) Dimethylphthalate	14.19	163	103721	8.37	ng/ul	100
48) Acenaphthylene	14.46	152	292513	19.50	ng/ul#	95
50) Acenaphthene	14.83	153	3465308	343.33	ng/ul#	83
54) Dibenzofuran	15.16	168	3416194	227.53	ng/ul#	64
55) 2,4-Dinitrotoluene	15.08	165	7229	1.92	ng/ul#	41
59) Fluorene	15.81	166	3479771	288.61	ng/ul#	96
61) 4-Nitroaniline	15.81	138	64697	24.04	ng/ul#	13
65) N-Nitrosodiphenylamine	15.98	169	19829	2.31	ng/ul#	1
70) Phenanthrene	17.59	178	8132986	481.61	ng/ul#	33
72) Anthracene	17.59	178	8132986	474.84	ng/ul#	30
75) Carbazole	17.89	167	1208366	83.96	ng/ul	94
77) Fluoranthene	19.67	202	25458	1.29	ng/ul	97
80) Pyrene	19.92	202	4300376	193.20	ng/ul#	64
83) Benzo(a)anthracene	21.74	228	1638601	76.36	ng/ul#	90
85) Chrysene	21.81	228	1360206	67.30	ng/ul#	91
88) Benzo(b)fluoranthene	23.98	252	790319	36.72	ng/ul	96

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020217.D
Acq On : 16 Dec 2015 9:07
Operator : UM/SJ
Sample : G4767-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9N29

Quant Time: Dec 17 00:39:52 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 17 00:37:15 2015
Response via : Initial Calibration

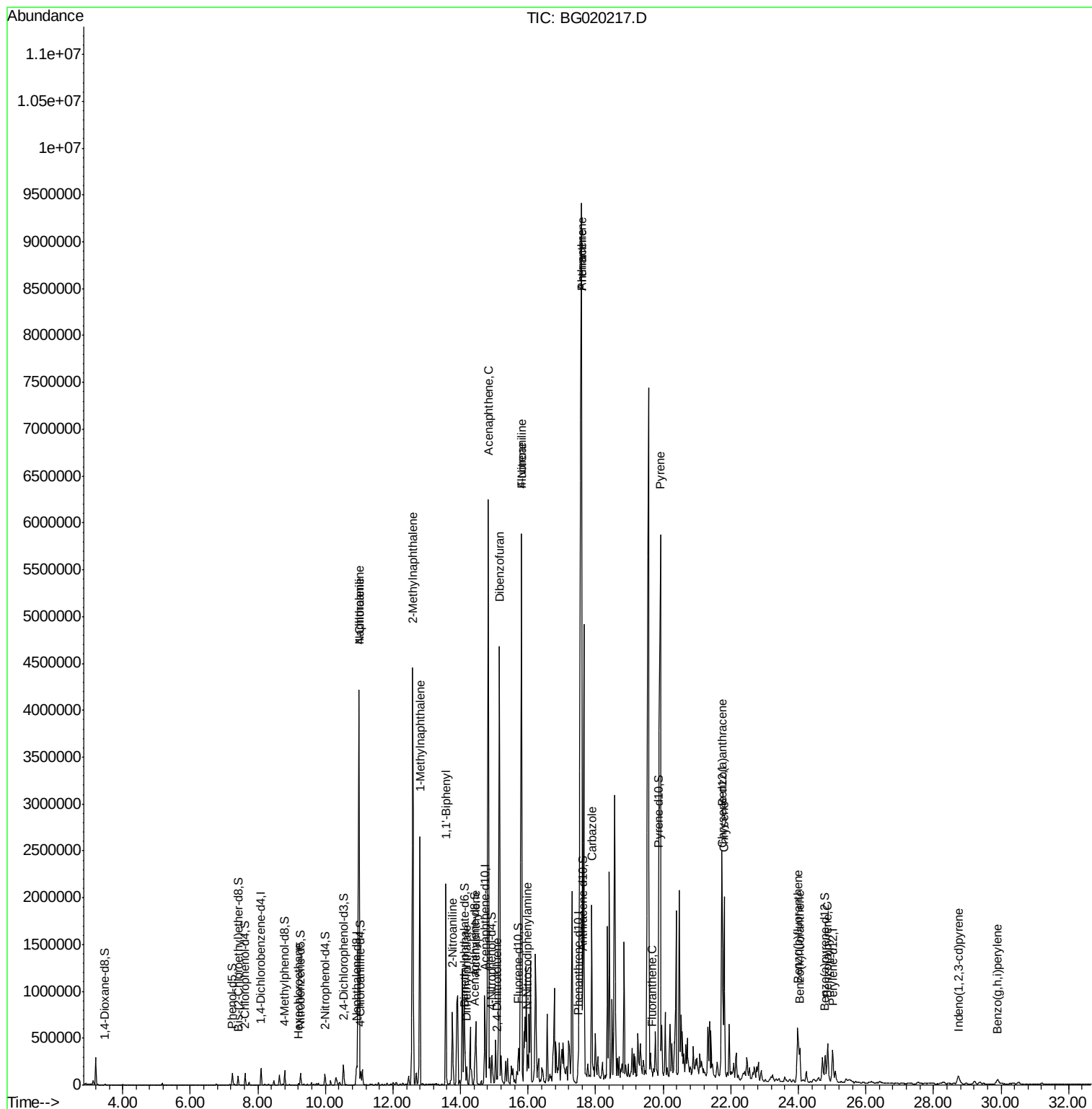
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo(k)fluoranthene	24.05	252	273926	13.26	ng/ul	98
91) Benzo(a)pyrene	24.87	252	471054	23.09	ng/ul	96
92) Indeno(1,2,3-cd)pyrene	28.74	276	147033	6.05	ng/ul	94
94) Benzo(g,h,i)perylene	29.90	276	110711	5.56	ng/ul	97

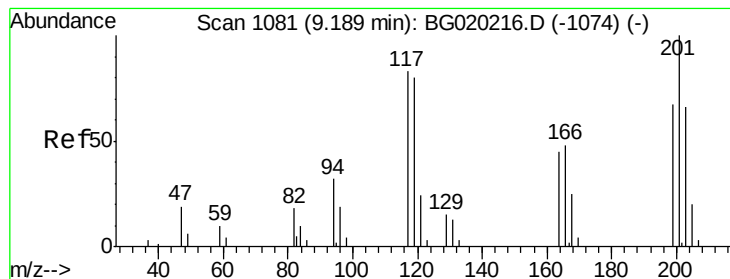
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
 Data File : BG020217.D
 Acq On : 16 Dec 2015 9:07
 Operator : UM/SJ
 Sample : G4767-07
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N29

Quant Time: Dec 17 00:39:52 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 17 00:37:15 2015
 Response via : Initial Calibration





#17

Hexachloroethane

Concen: 2.44 ng/ul

RT: 9.20 min Scan# 1083

Delta R.T. 0.02 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampled :

D9N29

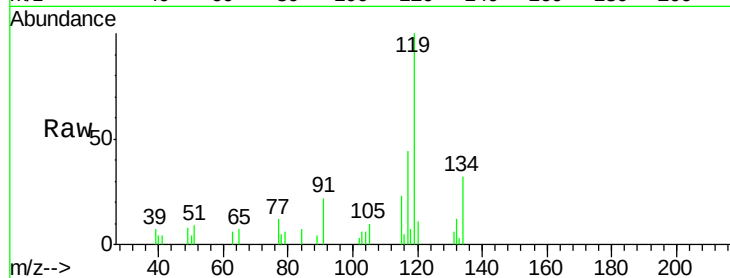
Tgt Ion:117 Resp: 3448

Ion Ratio Lower Upper

117 100

201 0.0 102.7 154.1#

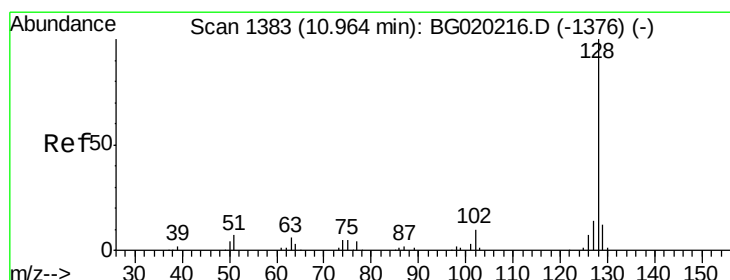
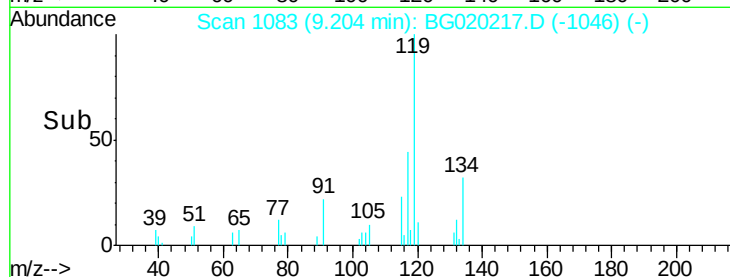
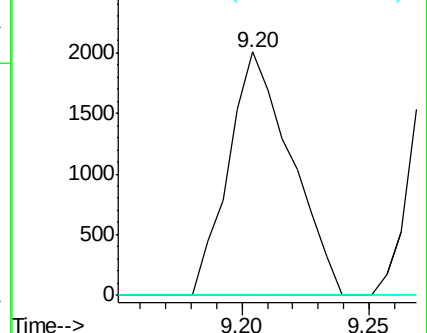
199 0.0 65.8 98.8#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#28

Naphthalene

Concen: 335.98 ng/ul

RT: 11.00 min Scan# 1388

Delta R.T. 0.03 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

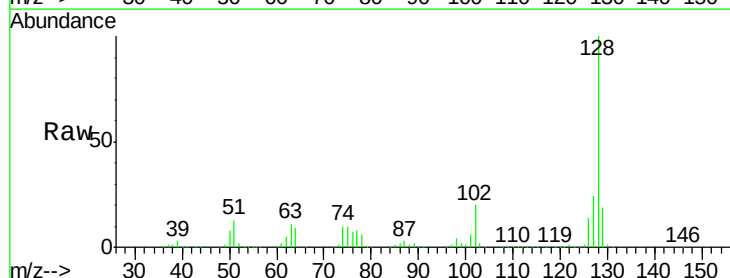
Tgt Ion:128 Resp: 3787887

Ion Ratio Lower Upper

128 100

129 19.3 8.6 12.8#

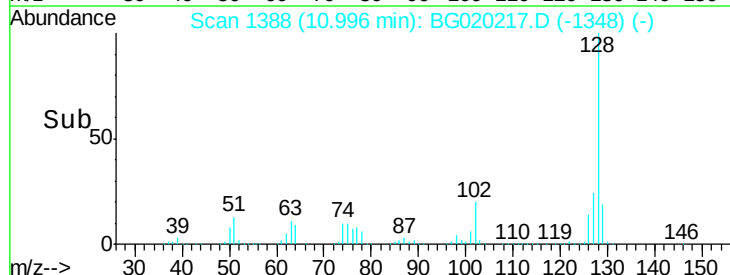
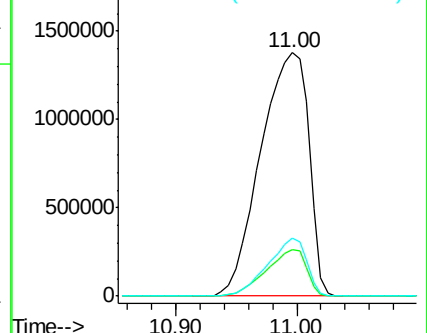
127 23.8 10.1 15.1#

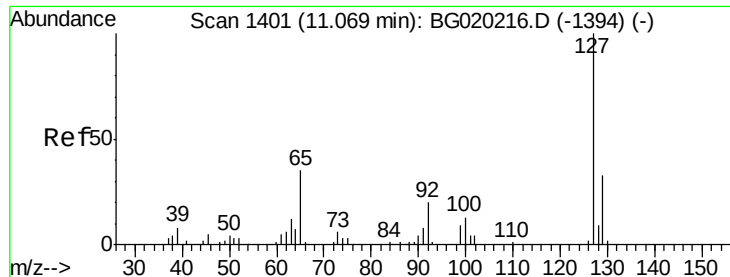


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

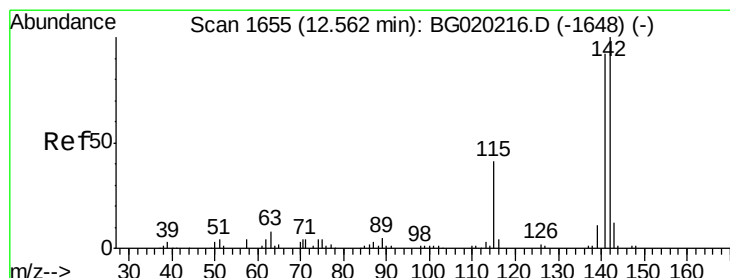
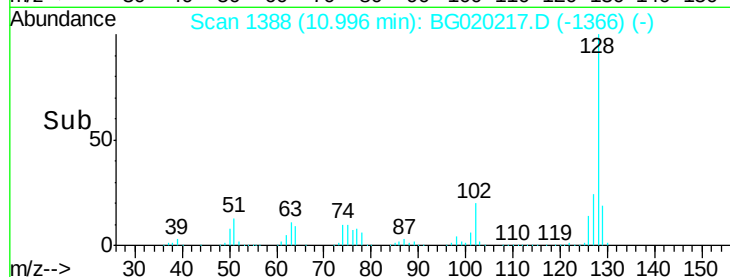
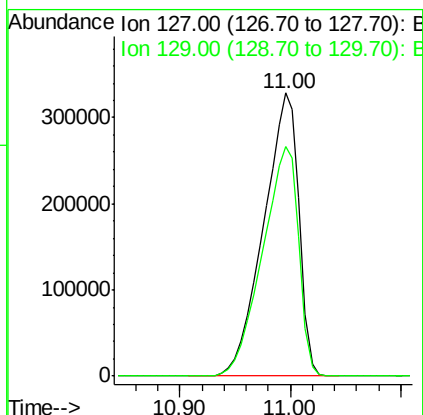
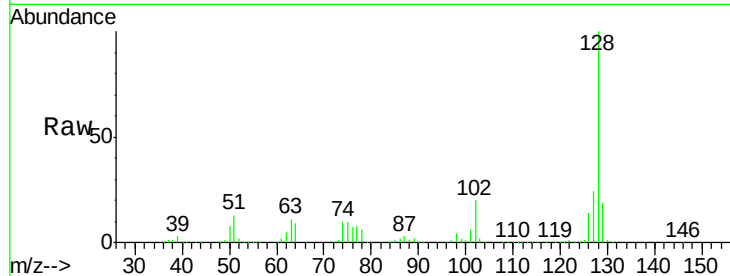




#30
 4-Chloroaniline
 Concen: 167.74 ng/ul
 RT: 11.00 min Scan# 1388
 Delta R.T. -0.07 min
 Lab File: BG020217.D
 Acq: 16 Dec 2015 9:07

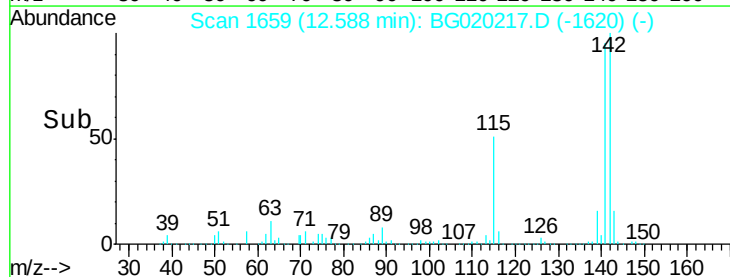
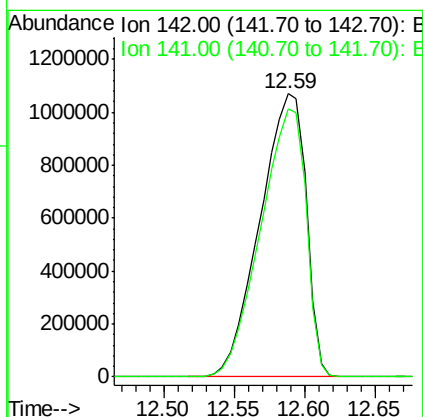
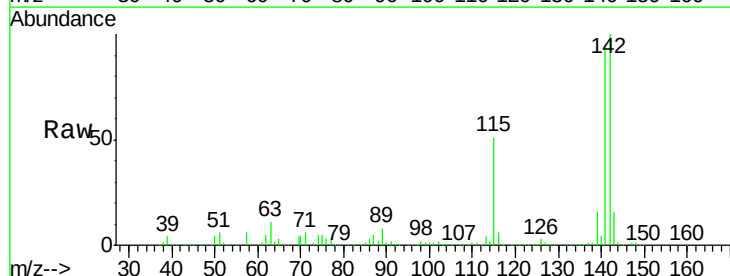
Instrument :
 BNA_G
 ClientSampleId :
 D9N29

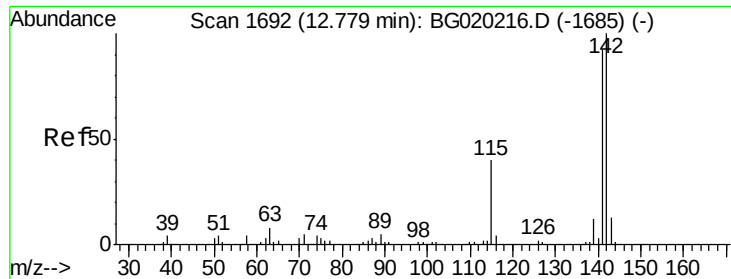
Tgt Ion:127 Resp: 729622
 Ion Ratio Lower Upper
 127 100
 129 81.1 25.7 38.5#



#34
 2-Methylnaphthalene
 Concen: 283.29 ng/ul
 RT: 12.59 min Scan# 1659
 Delta R.T. 0.03 min
 Lab File: BG020217.D
 Acq: 16 Dec 2015 9:07

Tgt Ion:142 Resp: 2439561
 Ion Ratio Lower Upper
 142 100
 141 94.6 74.9 112.3

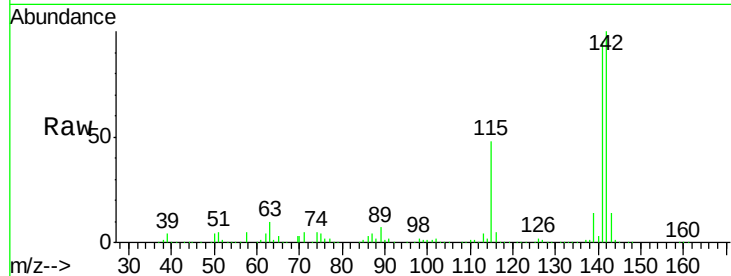




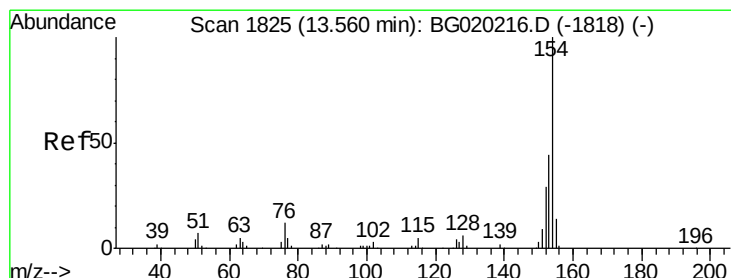
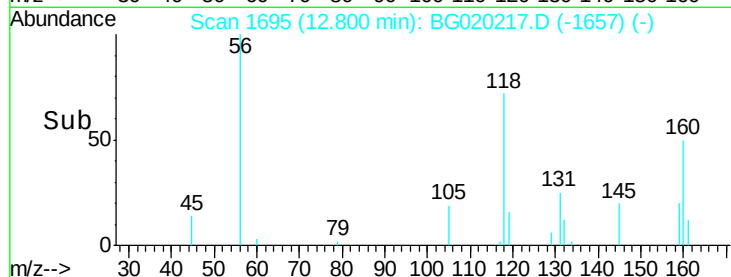
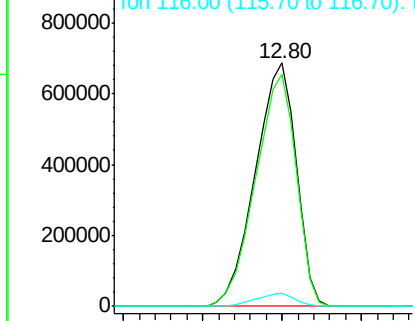
#35
 1-Methylnaphthalene
 Concen: 148.99 ng/ul
 RT: 12.80 min Scan# 1695
 Delta R.T. 0.02 min
 Lab File: BG020217.D
 Acq: 16 Dec 2015 9:07

Instrument :
 BNA_G
 ClientSampleId :
 D9N29

Tgt Ion:142 Resp: 1233539
 Ion Ratio Lower Upper
 142 100
 141 95.4 73.0 109.6
 116 5.4 3.0 4.6#

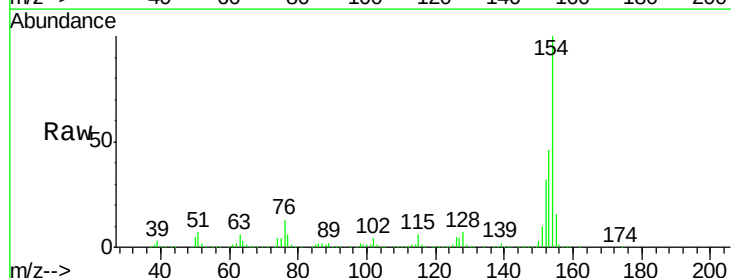


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 116.00 (115.70 to 116.70): E

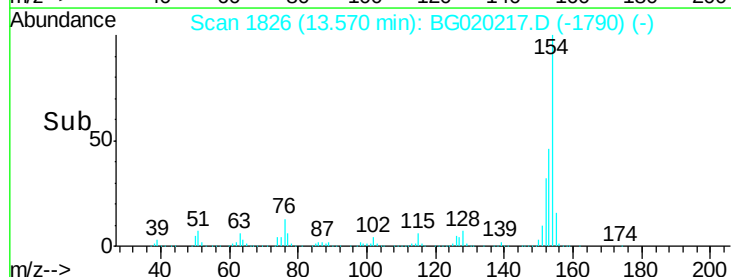
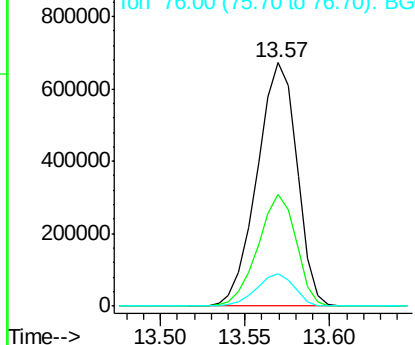


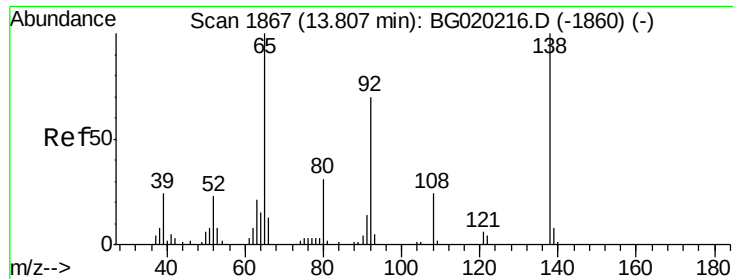
#41
 1,1'-Biphenyl
 Concen: 97.47 ng/ul
 RT: 13.57 min Scan# 1826
 Delta R.T. 0.01 min
 Lab File: BG020217.D
 Acq: 16 Dec 2015 9:07

Tgt Ion:154 Resp: 1103317
 Ion Ratio Lower Upper
 154 100
 153 45.9 35.5 53.3
 76 13.3 10.4 15.6



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BG





#43

2-Nitroaniline

Concen: 1.99 ng/ul

RT: 13.76 min Scan# 1859

Delta R.T. -0.04 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29

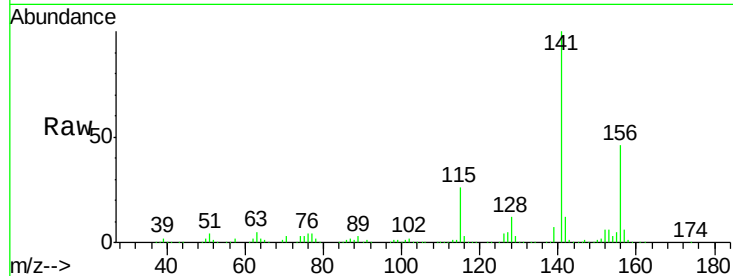
Tgt Ion: 65 Resp: 6130

Ion Ratio Lower Upper

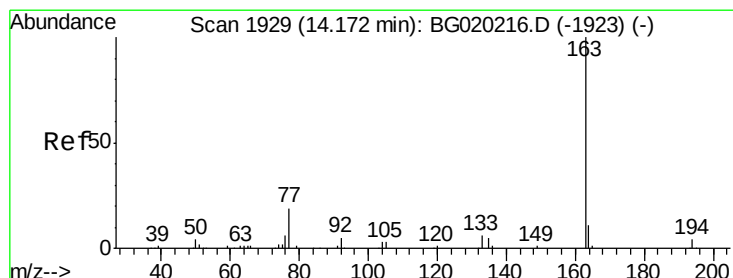
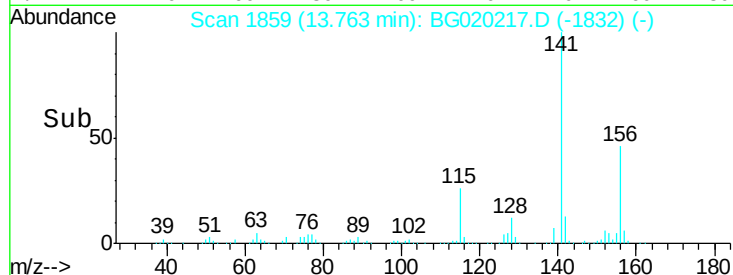
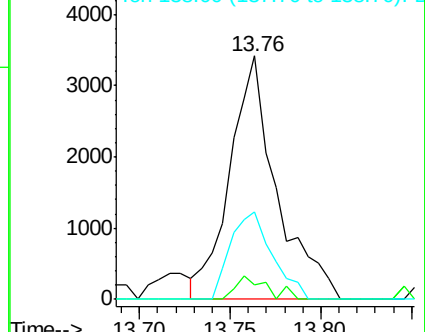
65 100

92 5.8 53.1 79.7#

138 36.1 76.6 114.8#



Abundance Ion 65.00 (64.70 to 65.70): BGC
Ion 92.00 (91.70 to 92.70): BGC
Ion 138.00 (137.70 to 138.70): BGC



#45

Dimethylphthalate

Concen: 8.37 ng/ul

RT: 14.19 min Scan# 1931

Delta R.T. 0.02 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

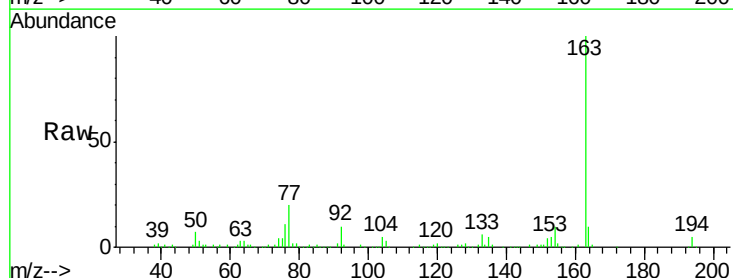
Tgt Ion: 163 Resp: 103721

Ion Ratio Lower Upper

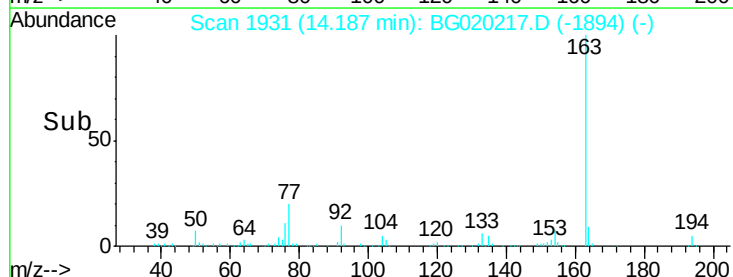
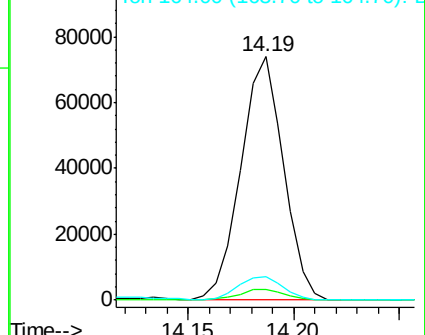
163 100

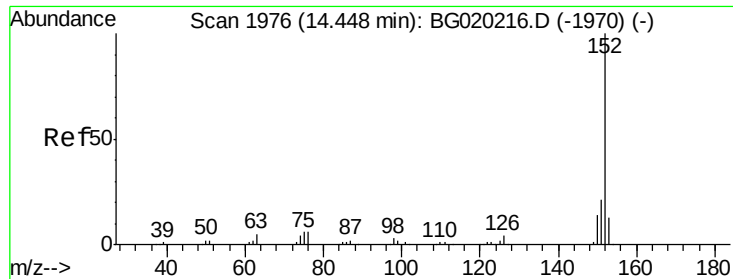
194 4.6 3.5 5.3

164 9.8 7.7 11.5



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





#48

Acenaphthylene

Concen: 19.50 ng/ul

RT: 14.46 min Scan# 1977

Delta R.T. 0.01 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29

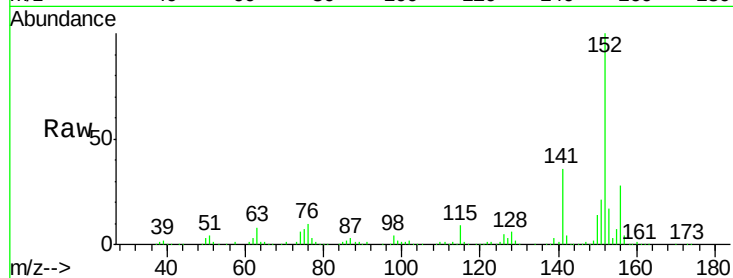
Tgt Ion:152 Resp: 292513

Ion Ratio Lower Upper

152 100

151 21.2 16.4 24.6

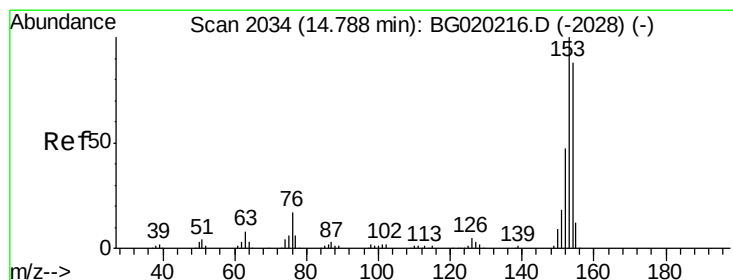
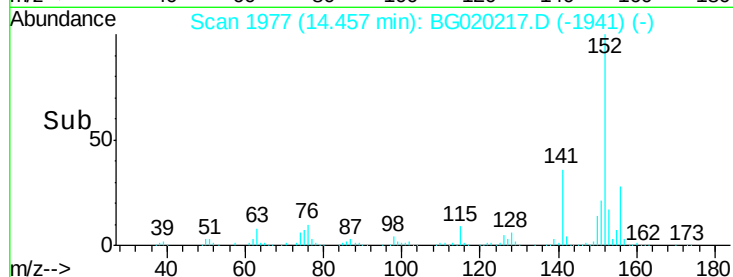
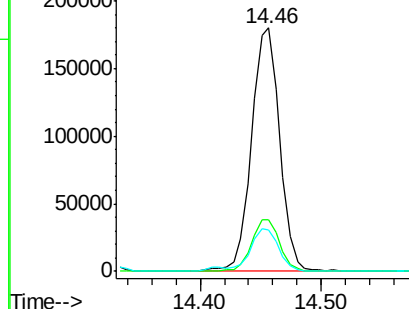
153 16.7 10.4 15.6#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 343.33 ng/ul

RT: 14.83 min Scan# 2041

Delta R.T. 0.04 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

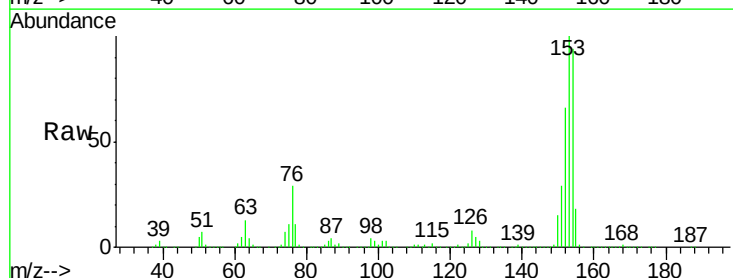
Tgt Ion:153 Resp: 3465308

Ion Ratio Lower Upper

153 100

152 65.5 37.6 56.4#

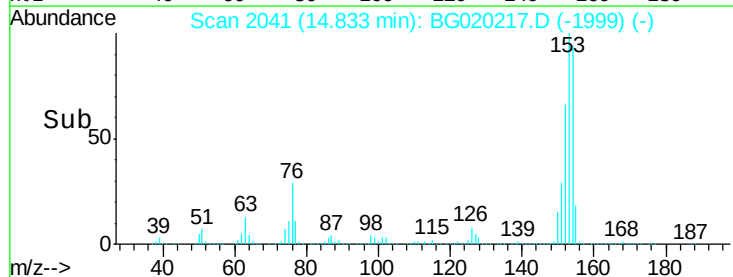
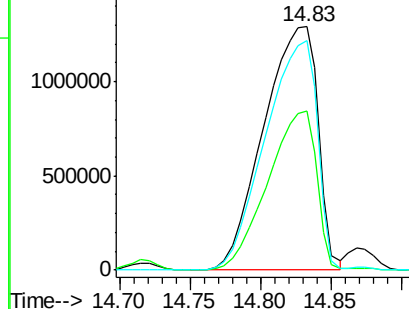
154 94.4 67.9 101.9

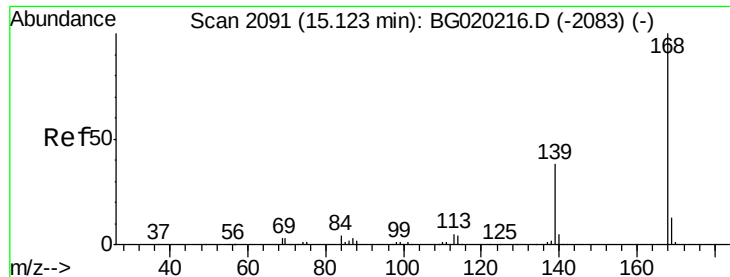


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 227.53 ng/ul

RT: 15.16 min Scan# 2096

Delta R.T. 0.03 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

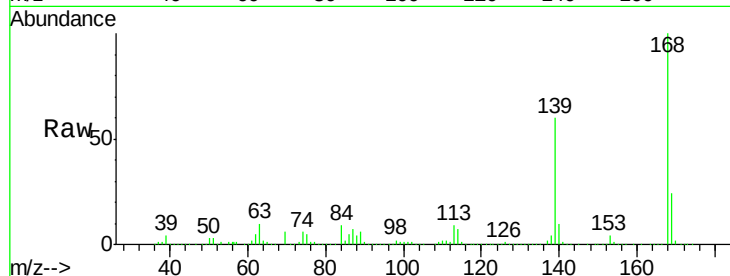
D9N29

Tgt Ion:168 Resp: 3416194

Ion Ratio Lower Upper

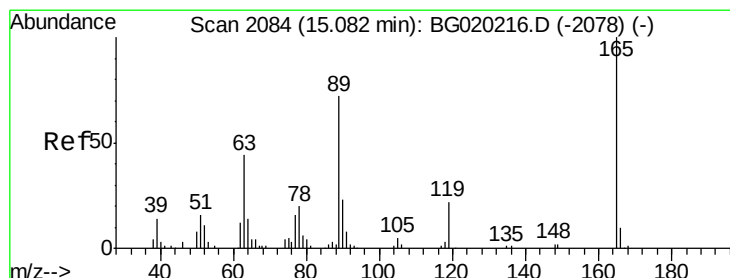
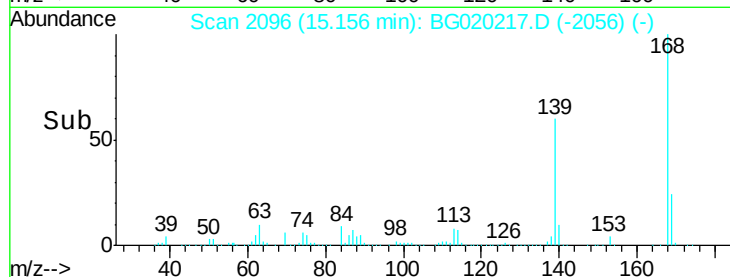
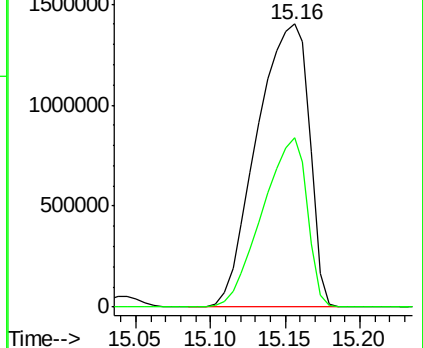
168 100

139 60.1 30.5 45.7#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#55

2,4-Dinitrotoluene

Concen: 1.92 ng/ul

RT: 15.08 min Scan# 2083

Delta R.T. -0.00 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

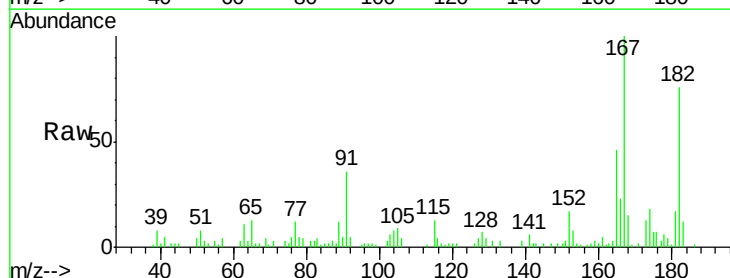
Tgt Ion:165 Resp: 7229

Ion Ratio Lower Upper

165 100

63 23.1 35.8 53.8#

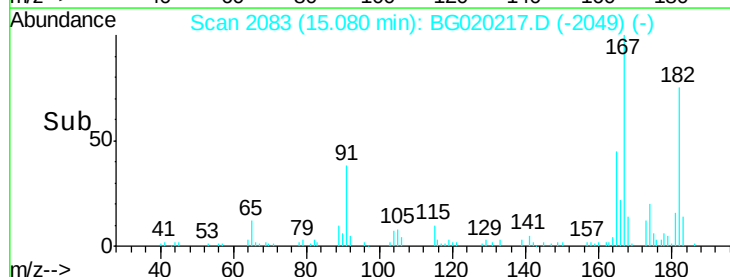
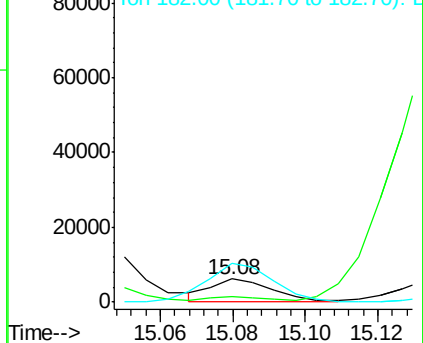
182 165.3 2.2 3.2#

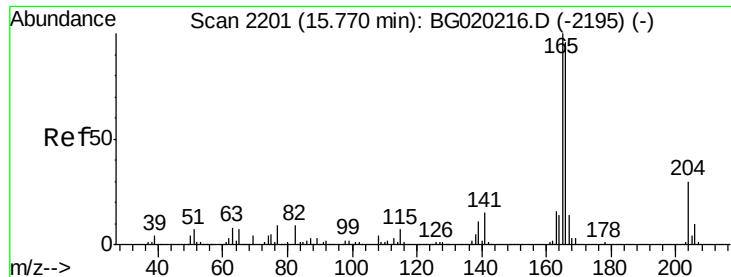


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 182.00 (181.70 to 182.70): E

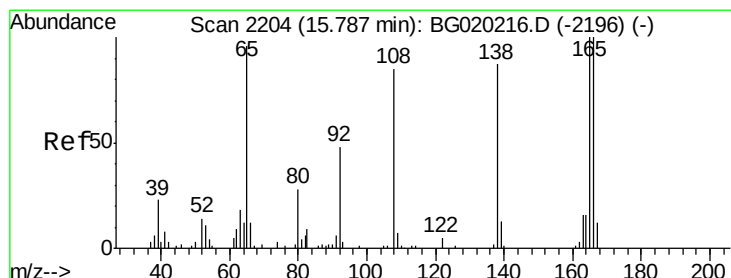
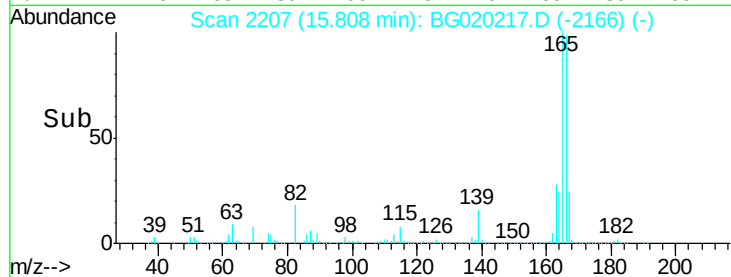
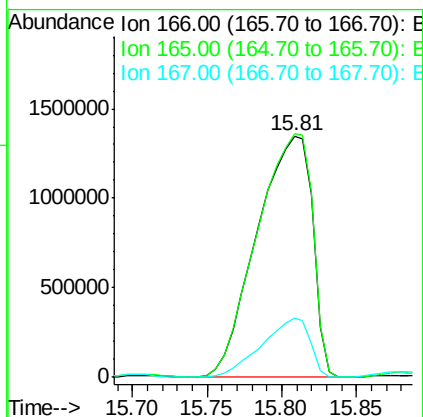
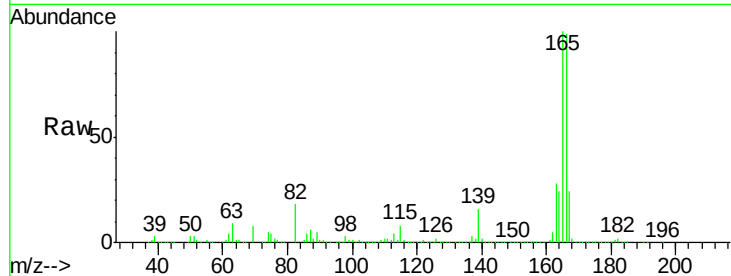




#59
 Fluorene
 Concen: 288.61 ng/ul
 RT: 15.81 min Scan# 2207
 Delta R.T. 0.04 min
 Lab File: BG020217.D
 Acq: 16 Dec 2015 9:07

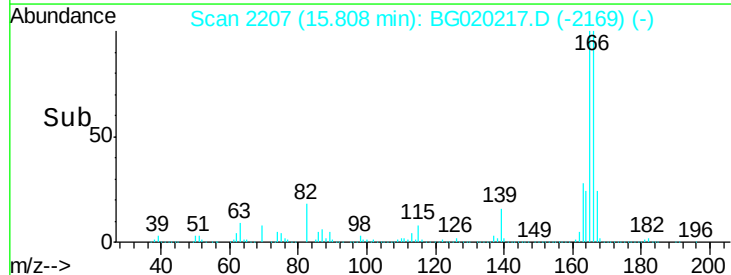
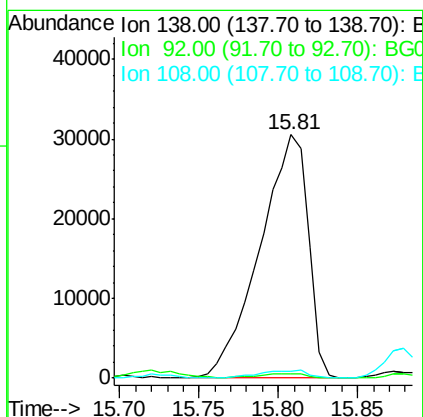
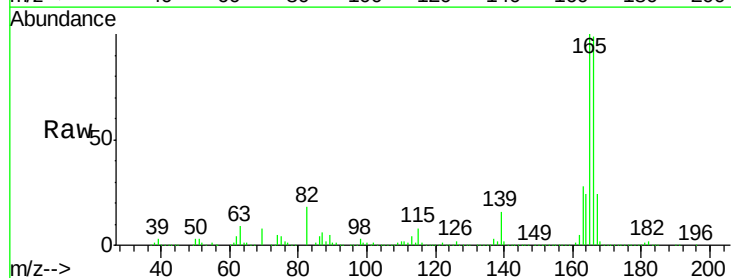
Instrument :
 BNA_G
 ClientSampleId :
 D9N29

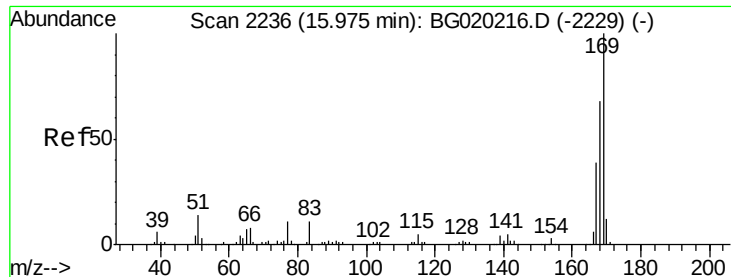
Tgt Ion:166 Resp: 3479771
 Ion Ratio Lower Upper
 166 100
 165 100.8 81.4 122.0
 167 24.6 11.2 16.8#



#61
 4-Nitroaniline
 Concen: 24.04 ng/ul
 RT: 15.81 min Scan# 2207
 Delta R.T. 0.02 min
 Lab File: BG020217.D
 Acq: 16 Dec 2015 9:07

Tgt Ion:138 Resp: 64697
 Ion Ratio Lower Upper
 138 100
 92 1.8 45.2 67.8#
 108 2.9 75.4 113.0#





#65

N-Nitrosodiphenylamine

Concen: 2.31 ng/ul

RT: 15.98 min Scan# 2237

Delta R.T. 0.01 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29

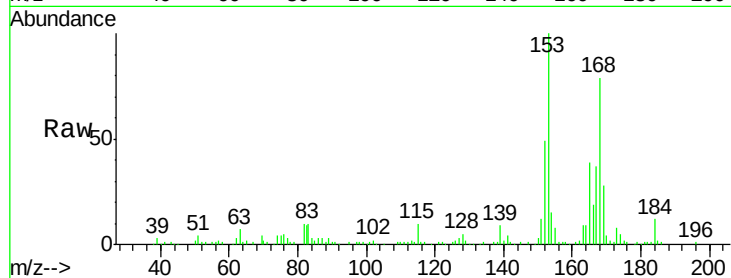
Tgt Ion:169 Resp: 19829

Ion Ratio Lower Upper

169 100

168 279.4 54.3 81.5#

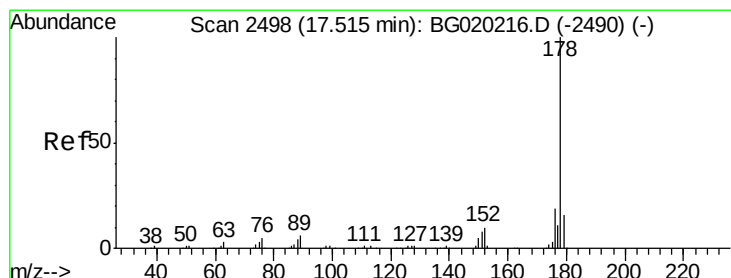
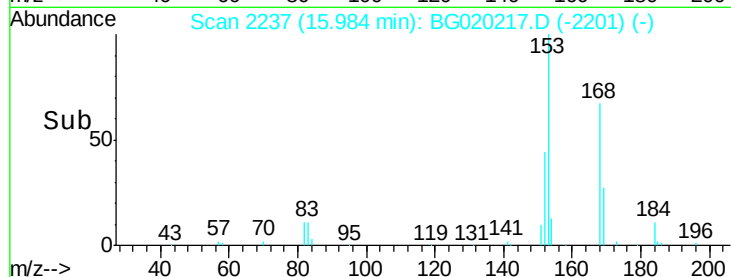
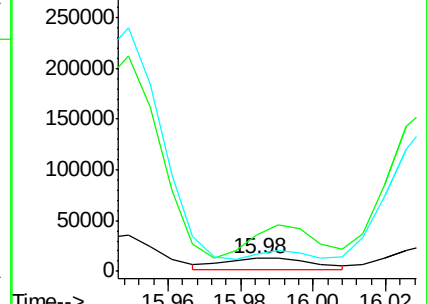
167 130.2 31.8 47.8#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 481.61 ng/ul

RT: 17.59 min Scan# 2510

Delta R.T. 0.07 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

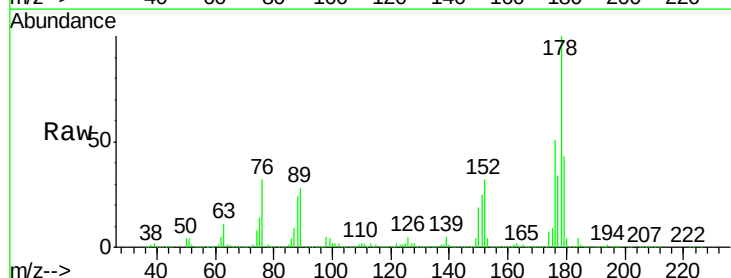
Tgt Ion:178 Resp: 8132986

Ion Ratio Lower Upper

178 100

179 42.7 12.9 19.3#

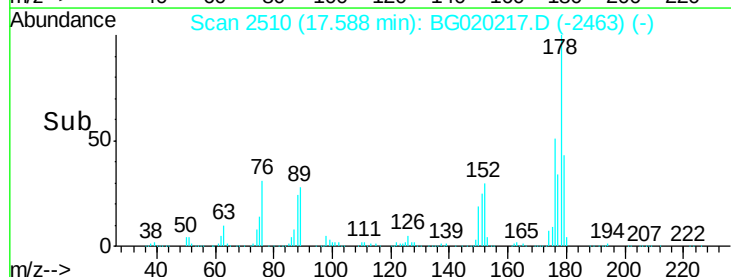
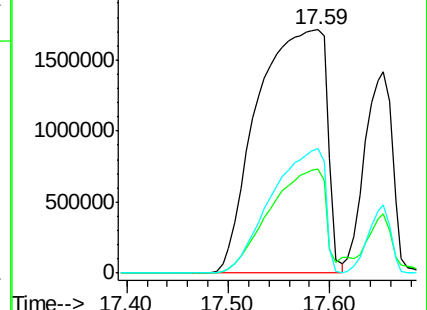
176 51.0 15.3 22.9#

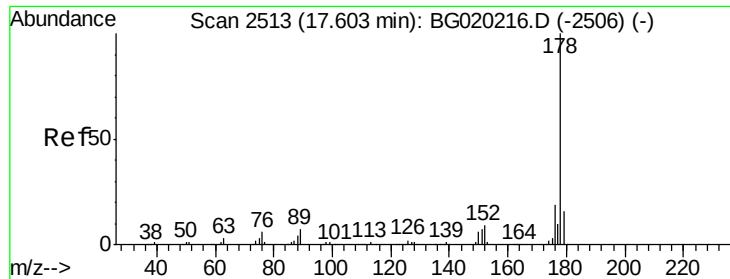


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 474.84 ng/ul

RT: 17.59 min Scan# 2510

Delta R.T. -0.01 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29

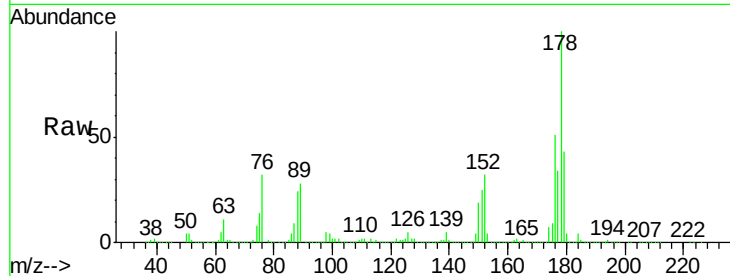
Tgt Ion:178 Resp: 8132986

Ion Ratio Lower Upper

178 100

179 42.7 12.3 18.5#

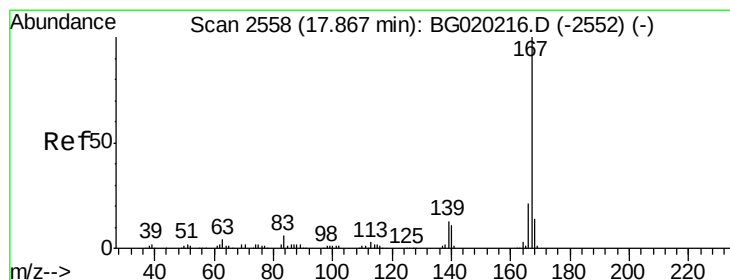
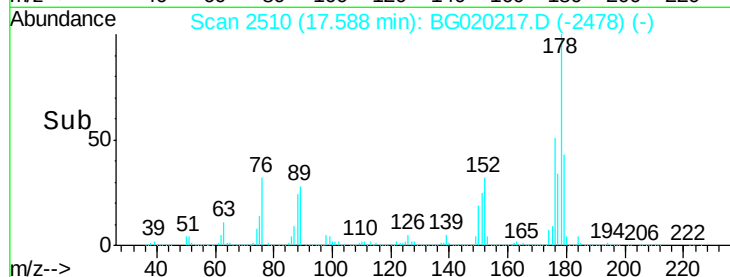
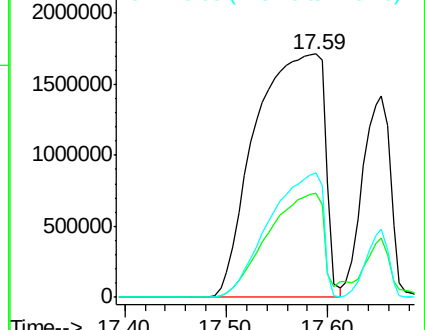
176 51.0 14.3 21.5#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#75

Carbazole

Concen: 83.96 ng/ul

RT: 17.89 min Scan# 2561

Delta R.T. 0.02 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

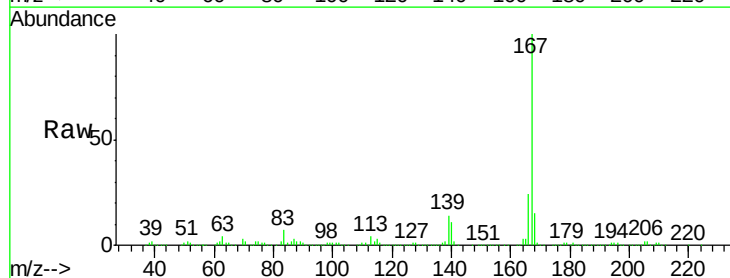
Tgt Ion:167 Resp: 1208366

Ion Ratio Lower Upper

167 100

166 24.4 17.0 25.6

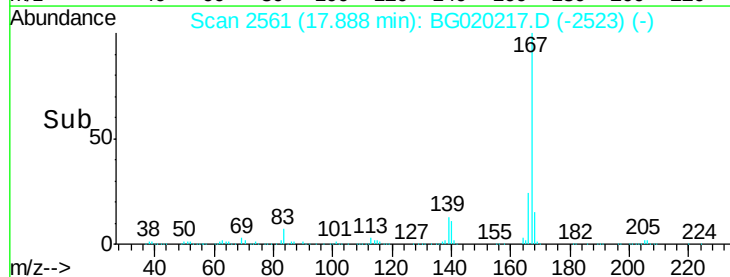
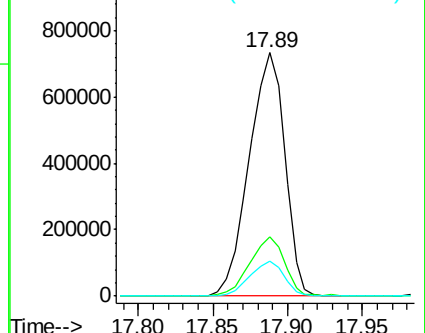
139 14.2 10.1 15.1

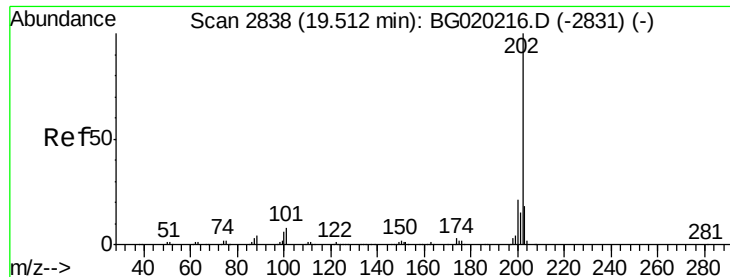


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

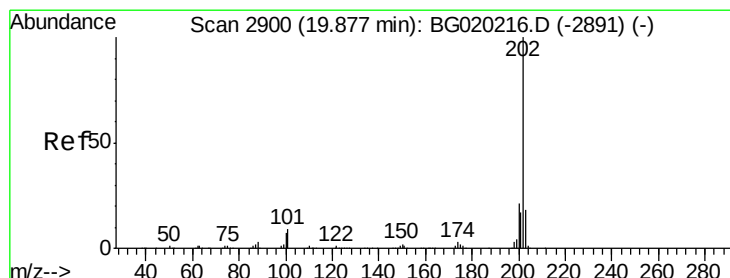
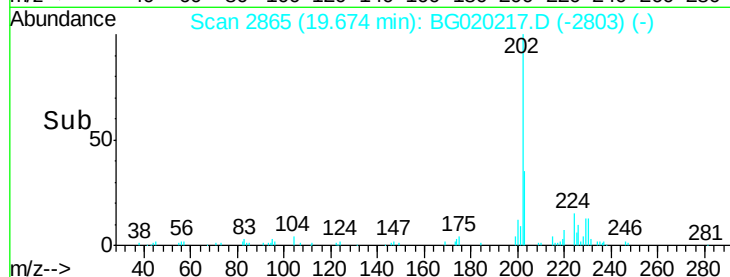
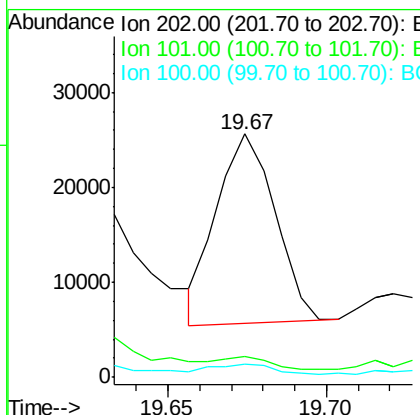
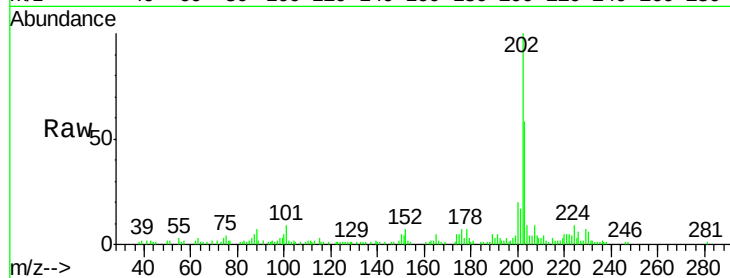




#77
Fluoranthene
Concen: 1.29 ng/ul
RT: 19.67 min Scan# 2865
Delta R.T. 0.16 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

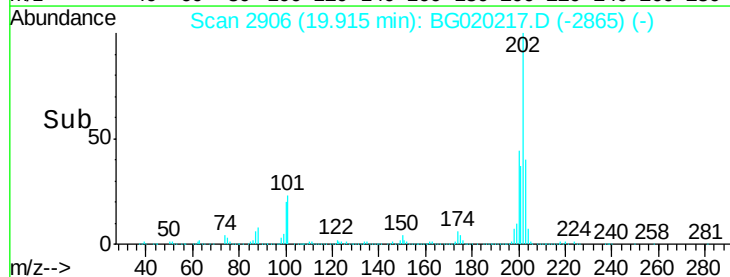
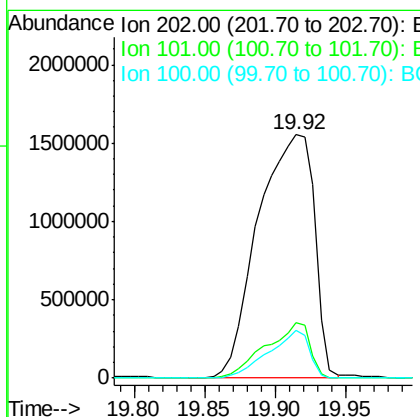
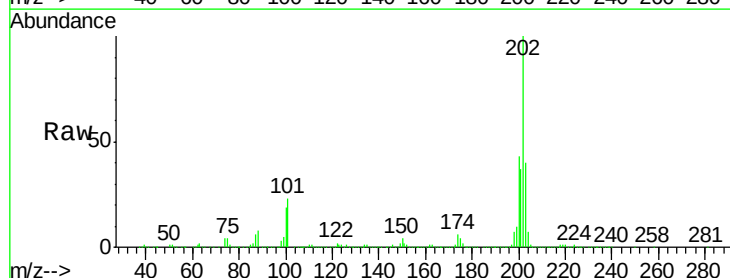
Instrument :
BNA_G
ClientSampleId :
D9N29

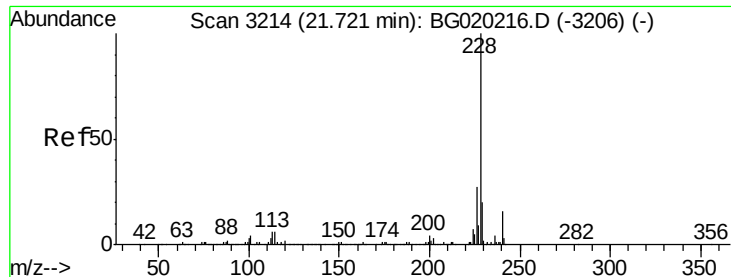
Tgt Ion:	202	Resp:	25458
Ion Ratio	Lower	Upper	
202	100		
101	8.7	6.2	9.4
100	5.5	5.1	7.7



#80
Pyrene
Concen: 193.20 ng/ul
RT: 19.92 min Scan# 2906
Delta R.T. 0.04 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion:	202	Resp:	4300376
Ion Ratio	Lower	Upper	
202	100		
101	22.5	7.0	10.4#
100	19.4	6.4	9.6#

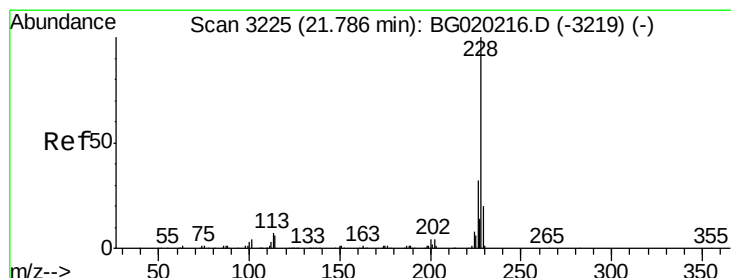
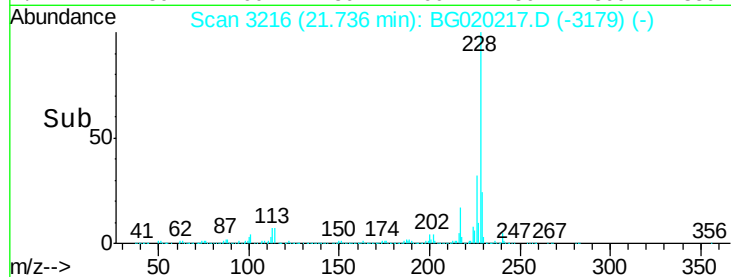
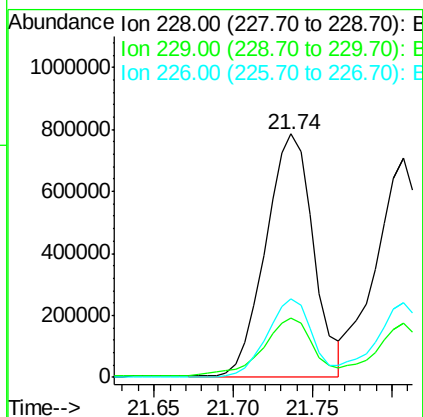
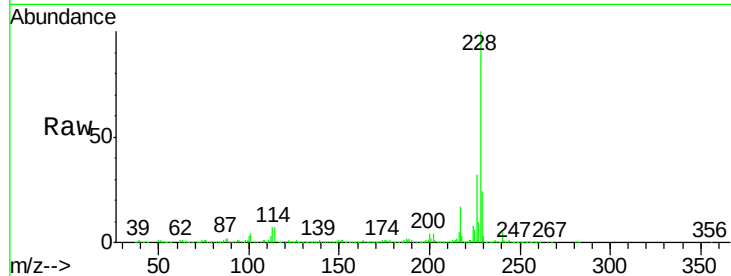




#83
Benzo(a)anthracene
Concen: 76.36 ng/ul
RT: 21.74 min Scan# 3216
Delta R.T. 0.02 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

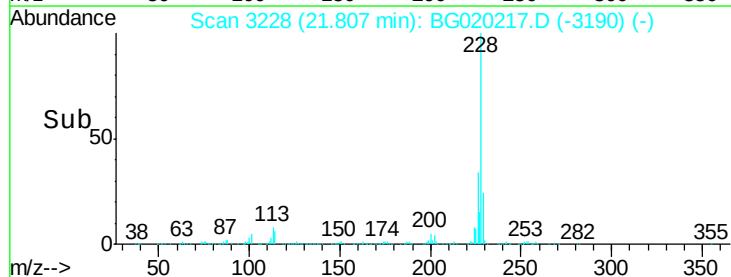
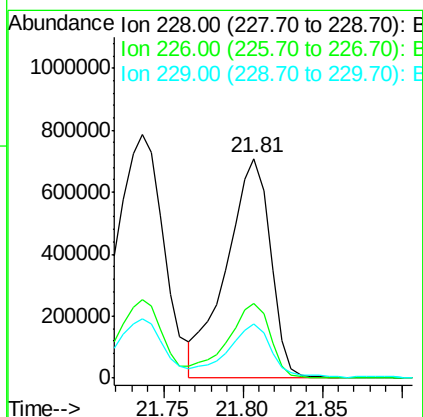
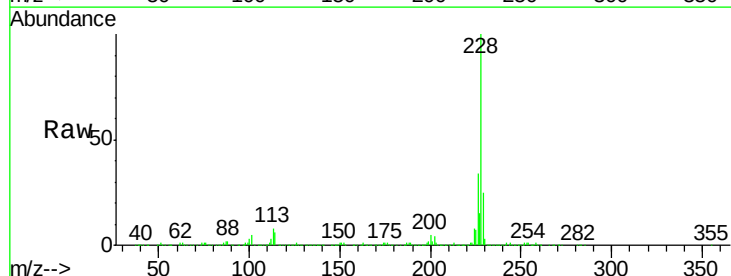
Instrument :
BNA_G
ClientSampleId :
D9N29

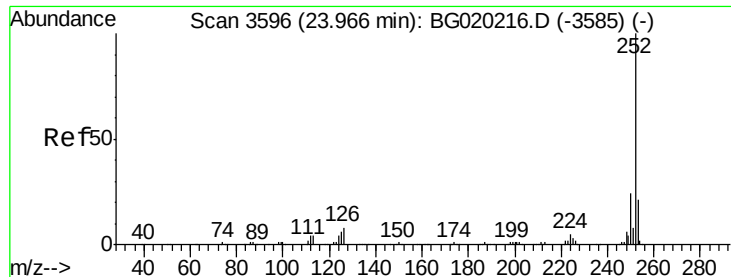
Tgt Ion:228 Resp: 1638601
Ion Ratio Lower Upper
228 100
229 24.4 15.8 23.8#
226 32.3 21.8 32.6



#85
Chrysene
Concen: 67.30 ng/ul
RT: 21.81 min Scan# 3228
Delta R.T. 0.02 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion:228 Resp: 1360206
Ion Ratio Lower Upper
228 100
226 34.2 23.9 35.9
229 24.7 15.6 23.4#





#88

Benzo(b)fluoranthene

Concen: 36.72 ng/ul

RT: 23.98 min Scan# 3598

Delta R.T. 0.02 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

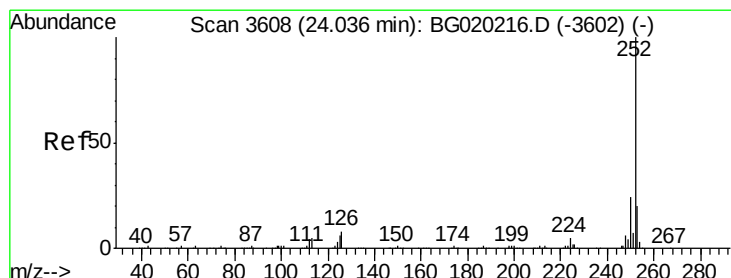
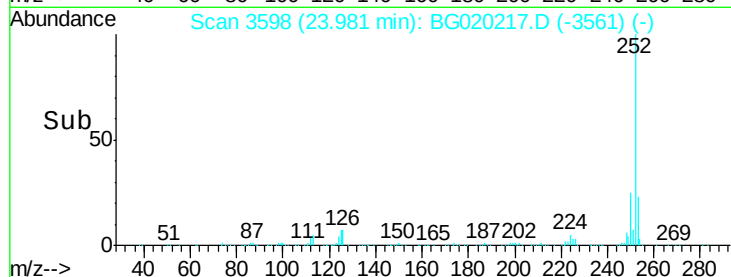
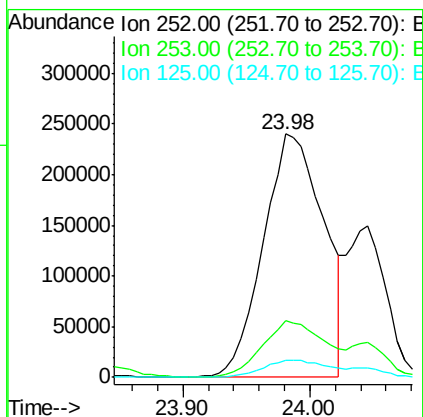
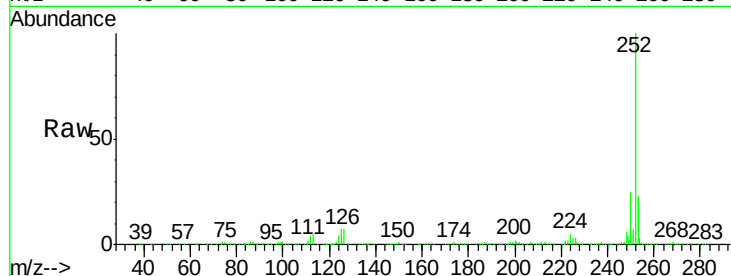
Instrument :

BNA_G

ClientSampleId :

D9N29

Tgt Ion:	252	Resp:	790319
Ion Ratio	Lower	Upper	
252	100		
253	23.2	16.7	25.1
125	6.9	6.2	9.2



#89

Benzo(k)fluoranthene

Concen: 13.26 ng/ul

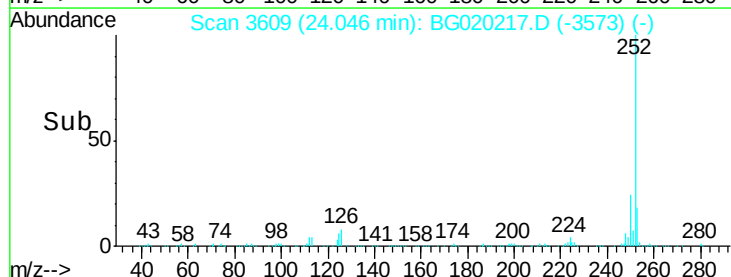
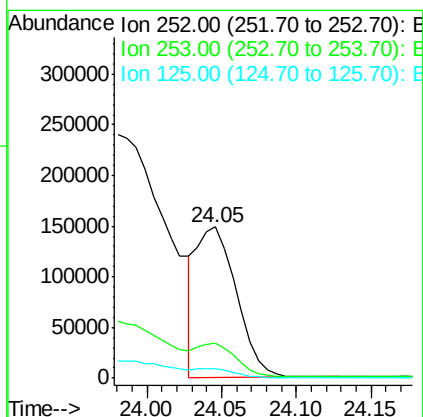
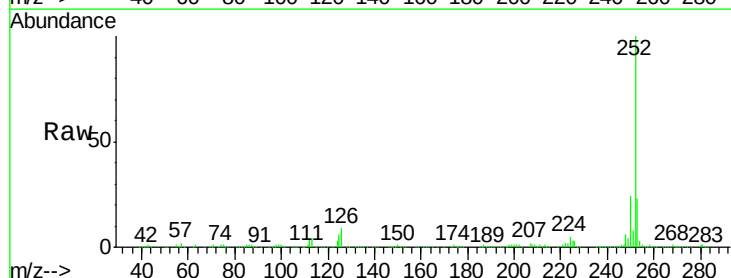
RT: 24.05 min Scan# 3609

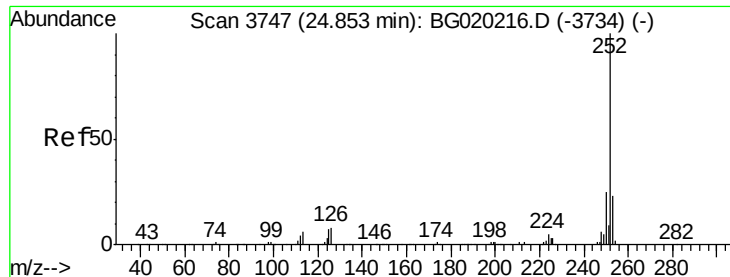
Delta R.T. 0.01 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Tgt Ion:	252	Resp:	273926
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.9	26.9
125	6.3	5.8	8.6





#91

Benzo(a)pyrene

Concen: 23.09 ng/ul

RT: 24.87 min Scan# 3749

Delta R.T. 0.01 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29

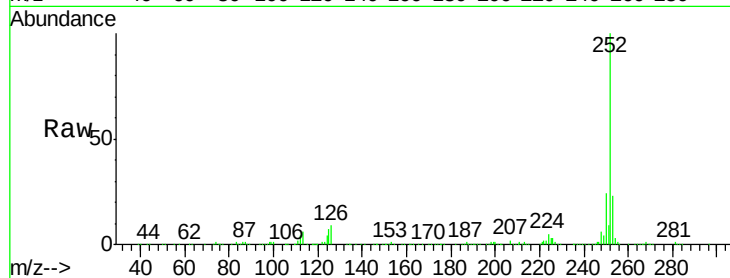
Tgt Ion:252 Resp: 471054

Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.4

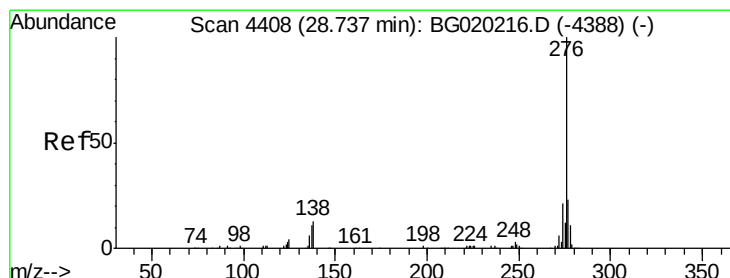
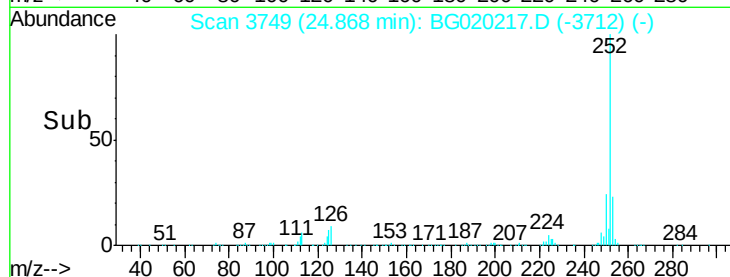
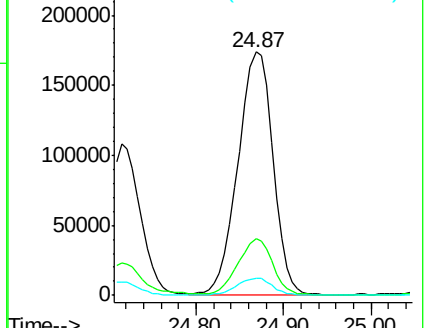
125 7.0 6.2 9.4



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 6.05 ng/ul

RT: 28.74 min Scan# 4408

Delta R.T. 0.00 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

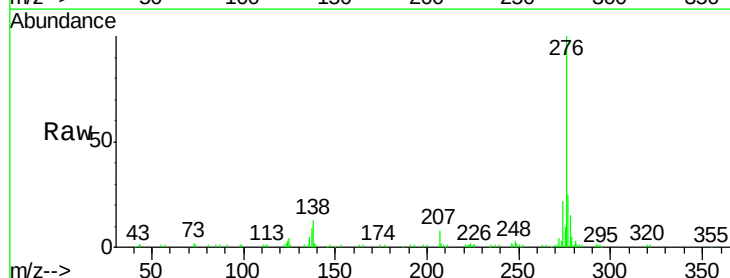
Tgt Ion:276 Resp: 147033

Ion Ratio Lower Upper

276 100

138 12.8 11.4 17.0

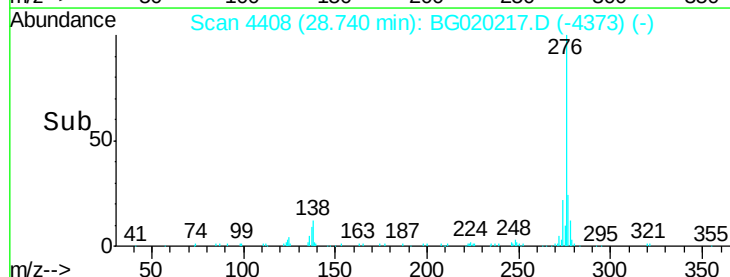
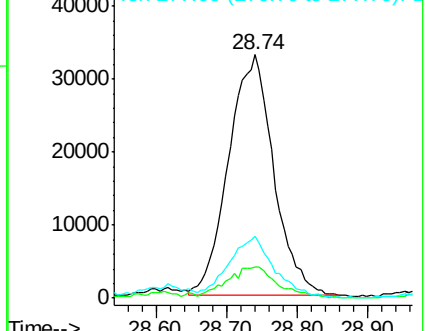
277 25.3 17.4 26.0

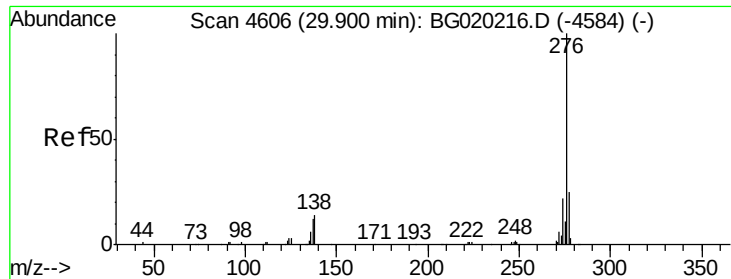


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#94

Benzo(g,h,i)perylene

Concen: 5.56 ng/ul

RT: 29.90 min Scan# 4606

Delta R.T. 0.00 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29

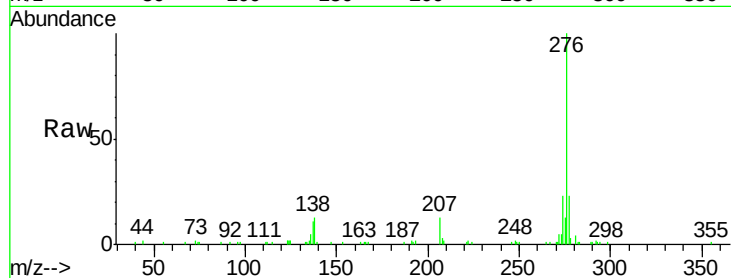
Tgt Ion: 276 Resp: 110711

Ion Ratio Lower Upper

276 100

138 12.9 10.8 16.2

277 22.9 19.9 29.9



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

