

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081016\
 Data File : BG023611.D
 Acq On : 11 Aug 2016 3:14
 Operator : UM/SJ
 Sample : H4384-16
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 P002-SS001-0002-01

Quant Time: Aug 11 04:02:04 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 11 03:58:16 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	200135	20.00	ng/ul	0.03
18) Naphthalene-d8	10.97	136	915624	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.79	164	641627	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.56	188	1444361	20.00	ng/ul	0.01
75) Chrysene-d12	21.88	240	1363124	20.00	ng/ul	0.00
83) Perylene-d12	25.28	264	1399832	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.50	96	10614	2.25	ng/uL	0.01
5) Phenol-d5	7.29	99	266205	13.20	ng/ul	0.03
7) Bis-(2-Chloroethyl)ether-d	7.45	67	186188	14.41	ng/ul	0.03
9) 2-Chlorophenol-d4	7.67	132	185926	13.52	ng/ul	0.03
13) 4-Methylphenol-d8	8.85	113	203623	12.94	ng/ul	0.02
19) Nitrobenzene-d5	9.39	128	378	0.05	ng/ul	0.11
22) 2-Nitrophenol-d4	10.04	143	125520	15.14	ng/ul	0.03
26) 2,4-Dichlorophenol-d3	10.59	165	222698	14.24	ng/ul	0.03
29) 4-Chloroaniline-d4	11.10	131	187615	10.23	ng/ul	0.02
43) Dimethylphthalate-d6	14.19	166	798506	15.20	ng/ul	0.00
46) Acenaphthylene-d8	14.49	160	950550	16.08	ng/ul	0.01
51) 4-Nitrophenol-d4	15.02	143	75502	8.42	ng/ul	0.03
57) Fluorene-d10	15.79	176	742193	15.29	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.92	200	96894	10.46	ng/ul	0.01
70) Anthracene-d10	17.65	188	1073577	16.50	ng/ul	0.00
76) Pyrene-d10	19.95	212	1148427	16.64	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.04	264	1059165	16.72	ng/ul	0.01

Target Compounds

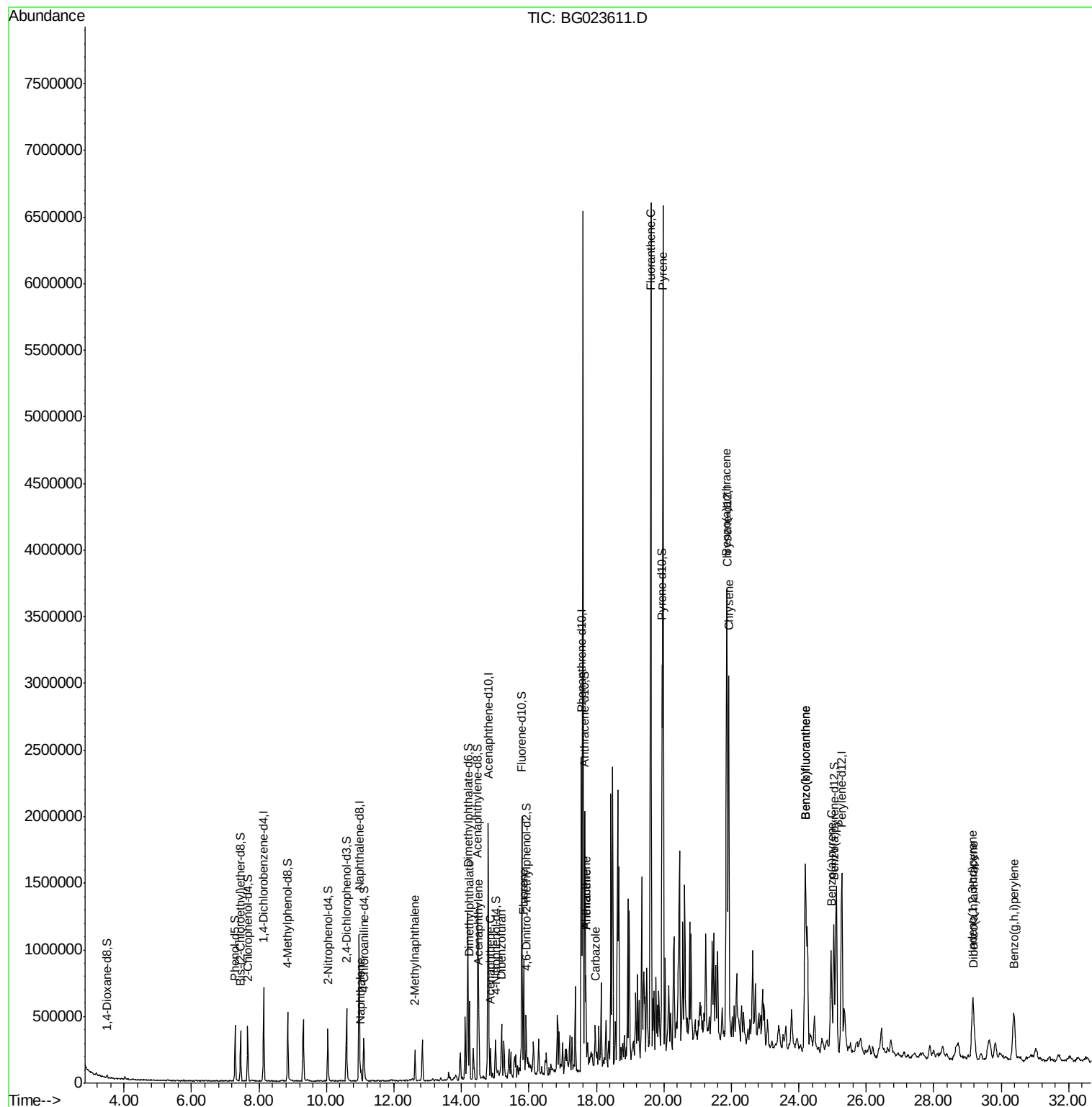
						Qvalue
28) Naphthalene	11.02	128	72992	1.57	ng/ul	97
34) 2-Methylnaphthalene	12.63	142	106419	2.82	ng/ul	98
44) Dimethylphthalate	14.24	163	348716	6.70	ng/ul	99
47) Acenaphthylene	14.52	152	272550	4.41	ng/ul	94
49) Acenaphthene	14.86	153	86823	2.06	ng/ul	92
53) Dibenzofuran	15.19	168	135346	2.17	ng/ul	92
58) Fluorene	15.84	166	379383	7.29	ng/ul	99
69) Phenanthrene	17.69	178	439782	5.88	ng/ul	99
71) Anthracene	17.69	178	439782	5.76	ng/ul	98
72) Carbazole	17.97	167	160421	2.61	ng/ul	95
74) Fluoranthene	19.62	202	3473949	45.36	ng/ul	95
77) Pyrene	19.98	202	3405923	40.42	ng/ul#	90
80) Benzo(a)anthracene	21.85	228	1750186	22.80	ng/ul	94
82) Chrysene	21.92	228	1840898	26.37	ng/ul#	91
85) Benzo(b)fluoranthene	24.20	252	1872579	23.52	ng/ul#	94
86) Benzo(k)fluoranthene	24.20	252	1872579	23.89	ng/ul#	90
88) Benzo(a)pyrene	24.96	252	871726	11.34	ng/ul	97
89) Indeno(1,2,3-cd)pyrene	29.16	276	808080	8.95	ng/ul#	87
90) Dibenzo(a,h)anthracene	29.19	278	132622	1.72	ng/ul#	88
91) Benzo(g,h,i)perylene	30.37	276	736352	9.83	ng/ul#	89

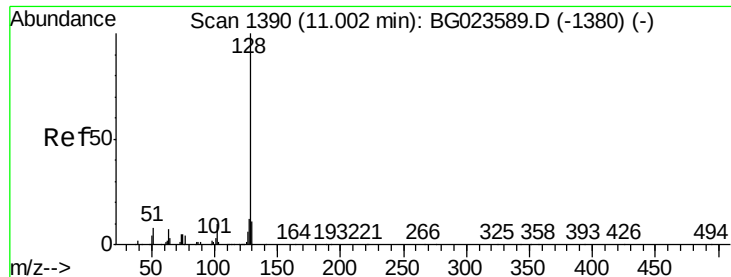
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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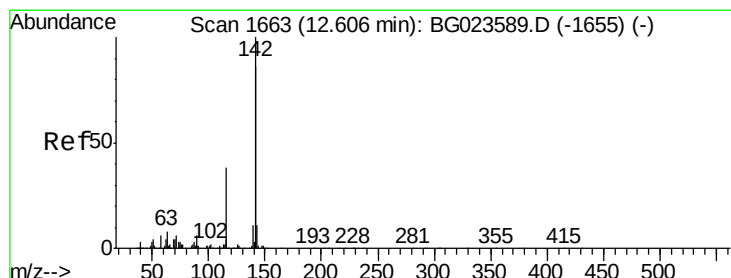
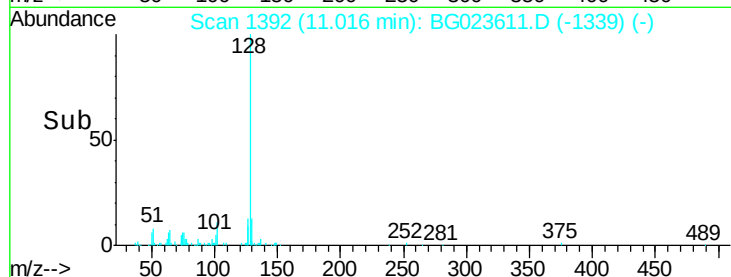
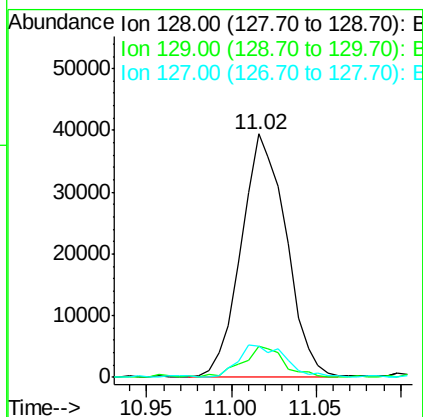
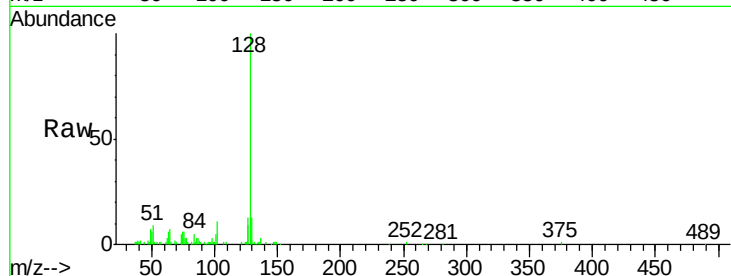




#28
Naphthalene
Concen: 1.57 ng/ul
RT: 11.02 min Scan# 1392
Delta R.T. 0.01 min
Lab File: BG023611.D
Acq: 11 Aug 2016 3:14

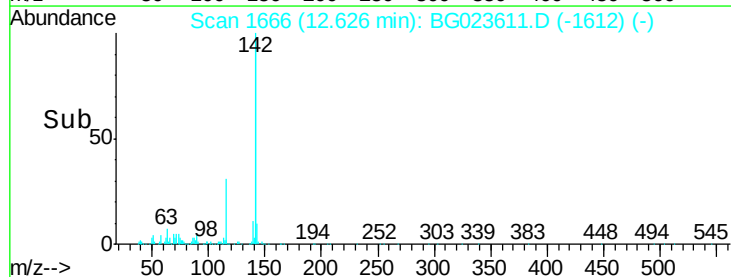
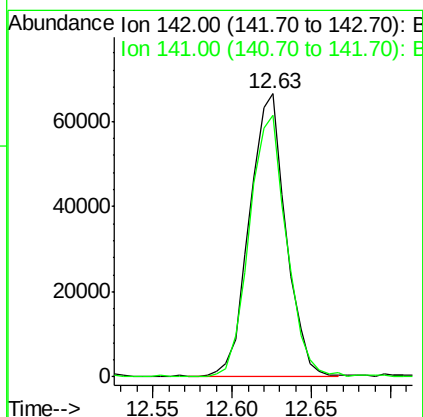
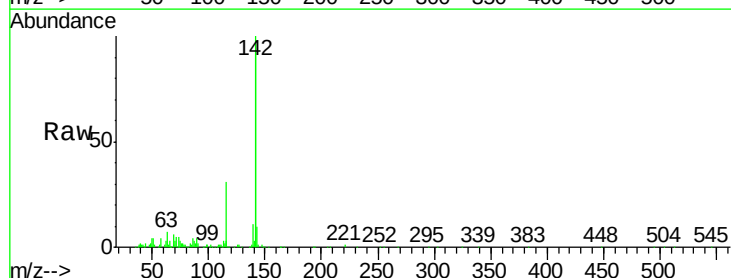
Instrument :
BNA_G
ClientSampleId :
P002-SS001-0002-01

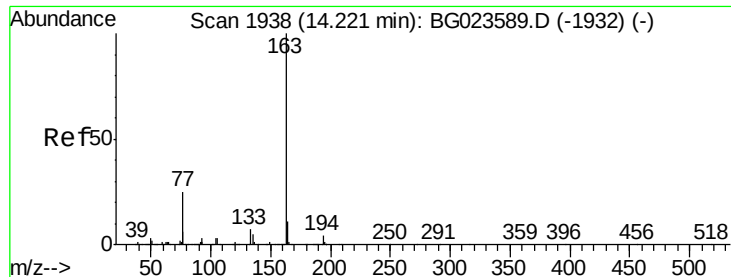
Tgt Ion:128 Resp: 72992
Ion Ratio Lower Upper
128 100
129 12.7 9.4 14.2
127 12.9 11.2 16.8



#34
2-Methylnaphthalene
Concen: 2.82 ng/ul
RT: 12.63 min Scan# 1666
Delta R.T. 0.02 min
Lab File: BG023611.D
Acq: 11 Aug 2016 3:14

Tgt Ion:142 Resp: 106419
Ion Ratio Lower Upper
142 100
141 92.5 75.2 112.8





#44

Dimethylphthalate

Concen: 6.70 ng/ul

RT: 14.24 min Scan# 1940

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

Instrument :

BNA_G

ClientSampleId :

P002-SS001-0002-01

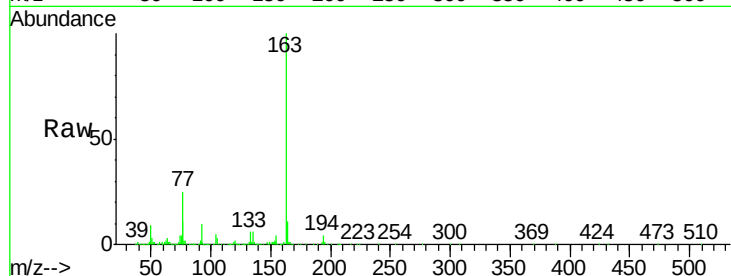
Tgt Ion:163 Resp: 348716

Ion Ratio Lower Upper

163 100

194 4.0 3.4 5.2

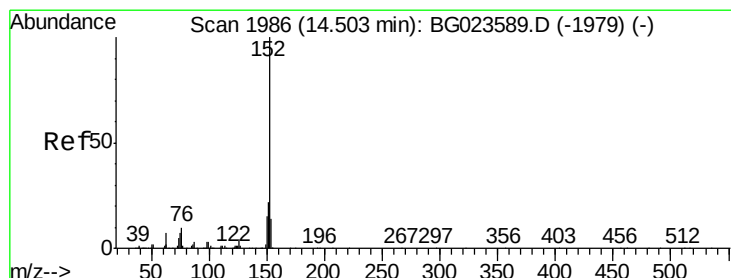
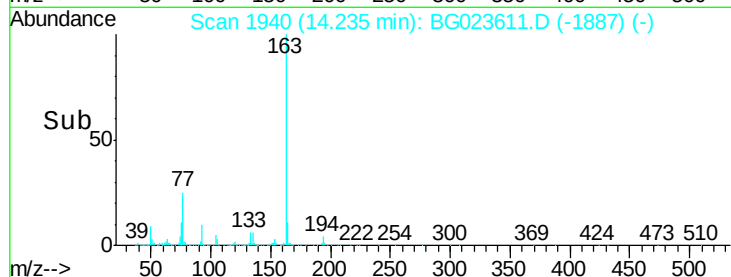
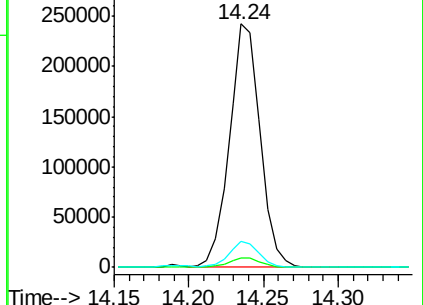
164 10.8 8.8 13.2



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



#47

Acenaphthylene

Concen: 4.41 ng/ul

RT: 14.52 min Scan# 1988

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

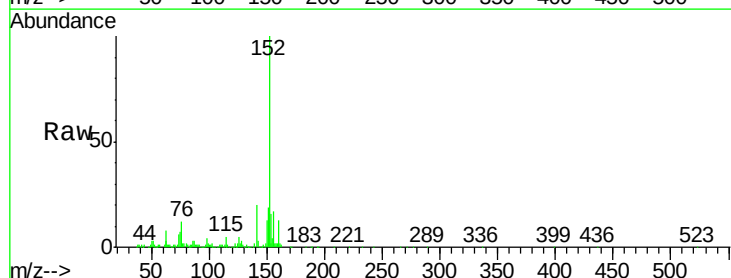
Tgt Ion:152 Resp: 272550

Ion Ratio Lower Upper

152 100

151 19.0 17.5 26.3

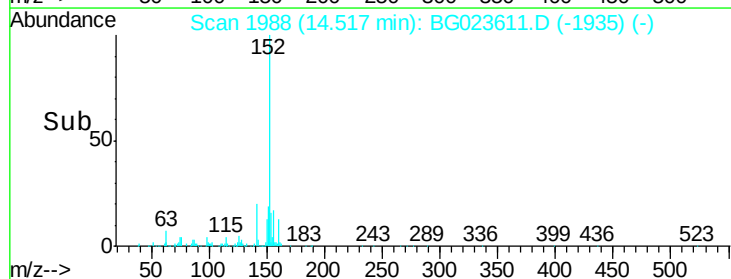
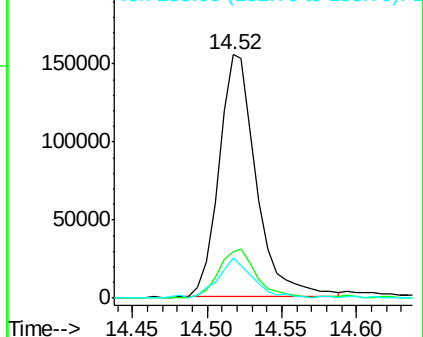
153 16.3 11.1 16.7

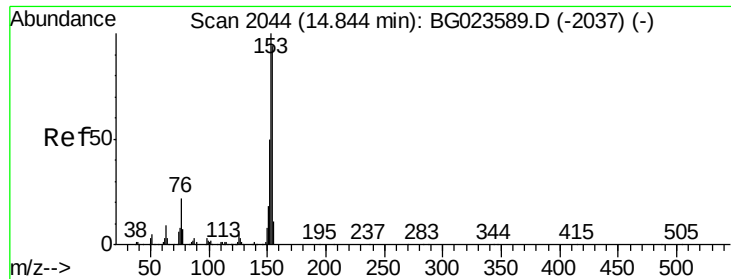


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 2.06 ng/ul

RT: 14.86 min Scan# 2046

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

Instrument :

BNA_G

ClientSampleId :

P002-SS001-0002-01

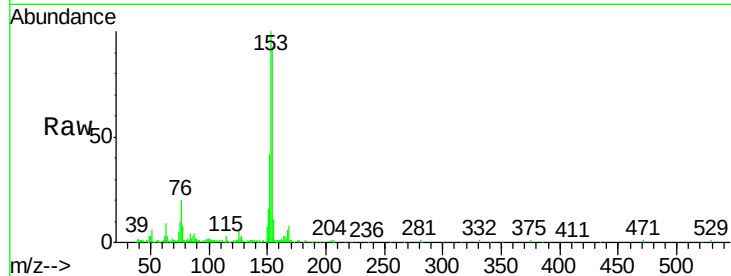
Tgt Ion:153 Resp: 86823

Ion Ratio Lower Upper

153 100

152 42.3 37.3 55.9

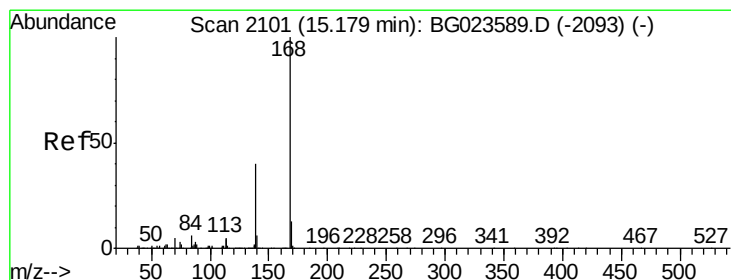
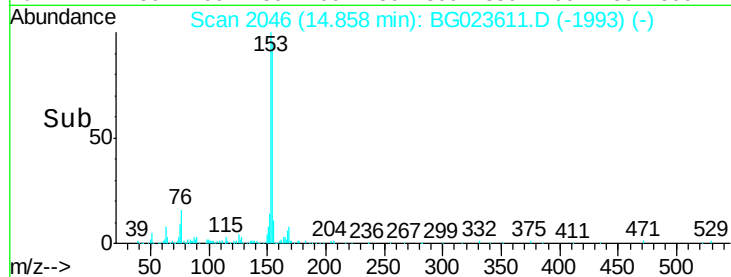
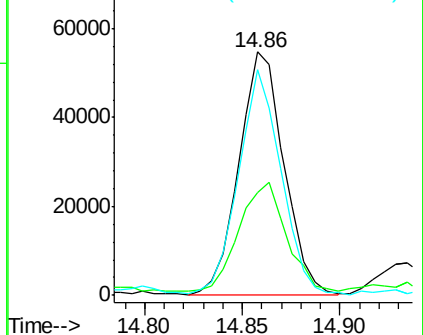
154 92.6 68.2 102.2



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



#53

Dibenzofuran

Concen: 2.17 ng/ul

RT: 15.19 min Scan# 2103

Delta R.T. 0.01 min

Lab File: BG023611.D

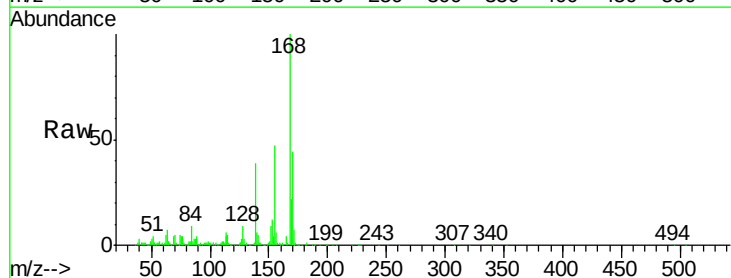
Acq: 11 Aug 2016 3:14

Tgt Ion:168 Resp: 135346

Ion Ratio Lower Upper

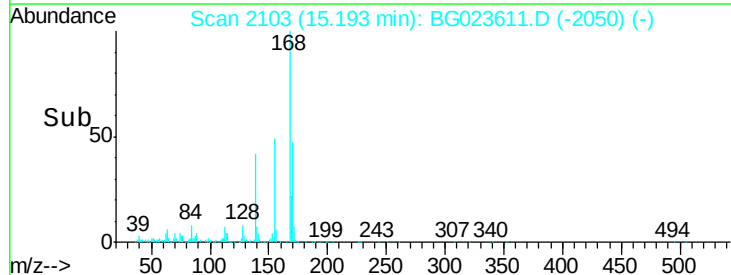
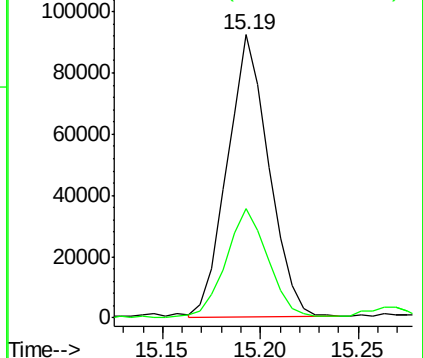
168 100

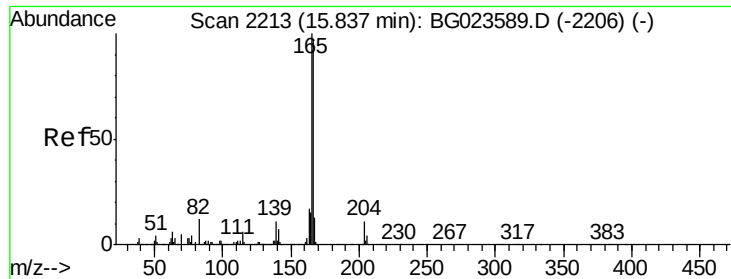
139 38.8 27.4 41.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 7.29 ng/ul

RT: 15.84 min Scan# 2214

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

Instrument :

BNA_G

ClientSampleId :

P002-SS001-0002-01

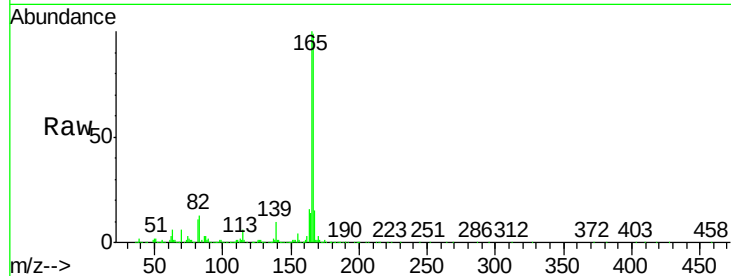
Tgt Ion:166 Resp: 379383

Ion Ratio Lower Upper

166 100

165 101.0 80.3 120.5

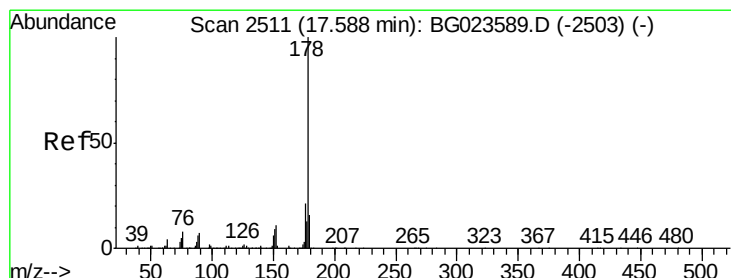
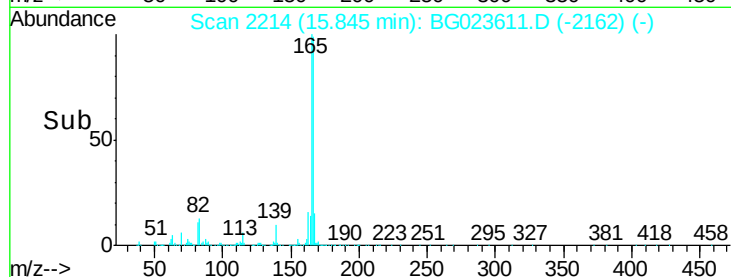
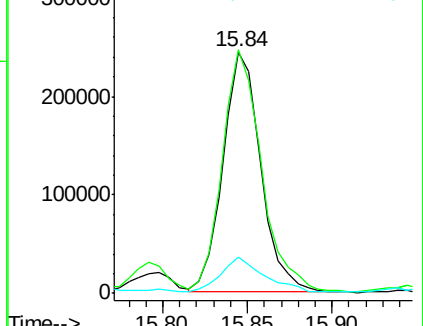
167 15.2 10.3 15.5



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



#69

Phenanthrene

Concen: 5.88 ng/ul

RT: 17.69 min Scan# 2528

Delta R.T. 0.10 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

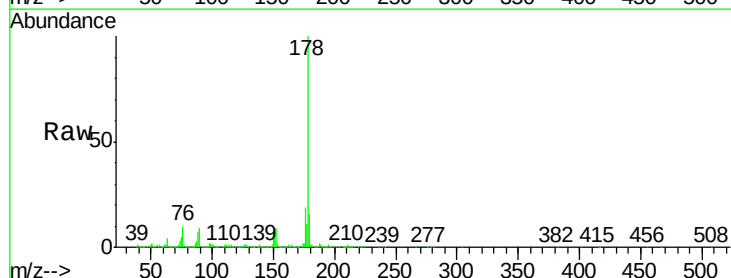
Tgt Ion:178 Resp: 439782

Ion Ratio Lower Upper

178 100

179 16.0 12.9 19.3

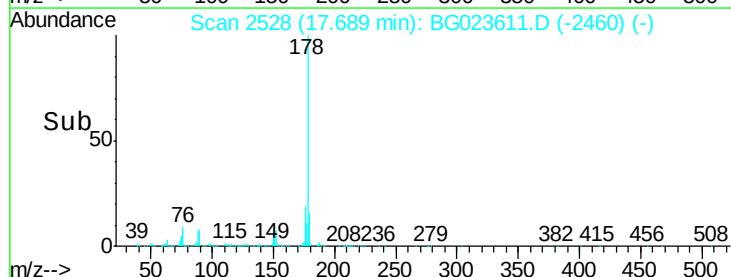
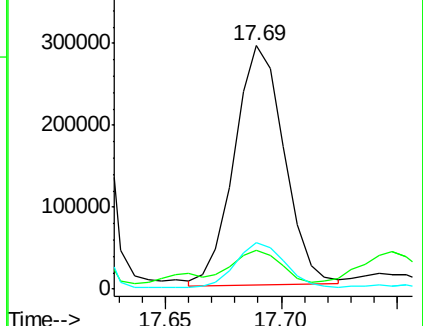
176 19.3 15.8 23.8

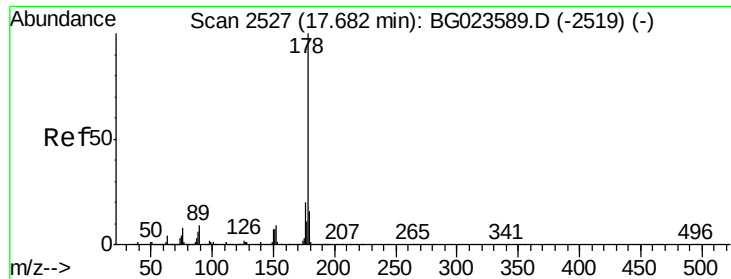


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

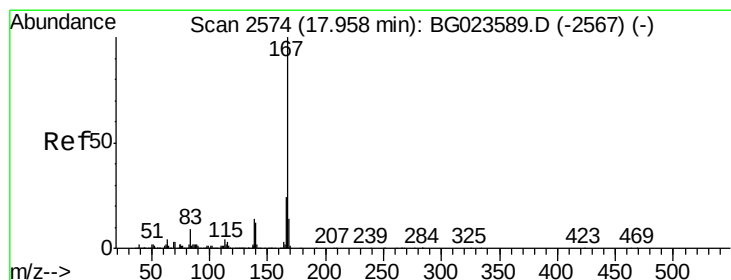
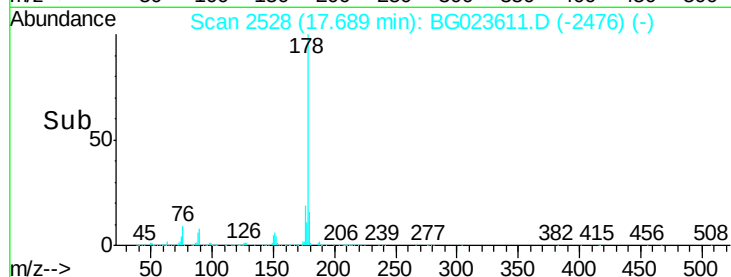
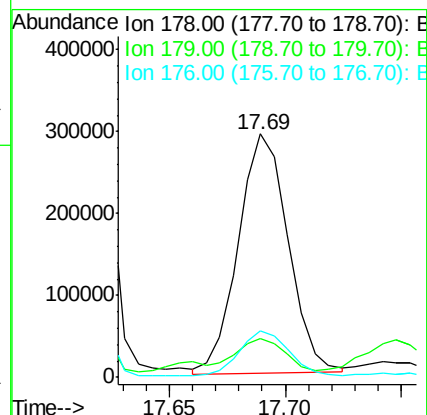
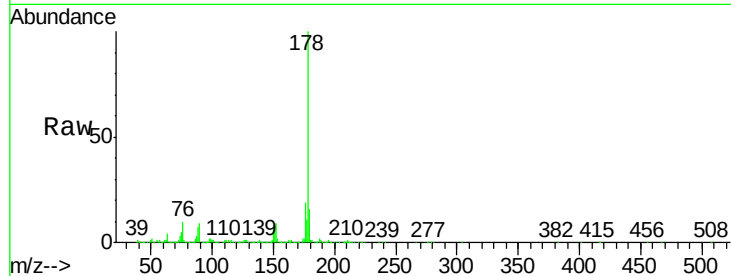




#71
 Anthracene
 Concen: 5.76 ng/ul
 RT: 17.69 min Scan# 2528
 Delta R.T. 0.01 min
 Lab File: BG023611.D
 Acq: 11 Aug 2016 3:14

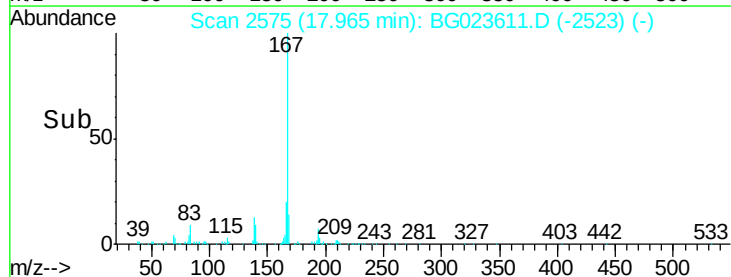
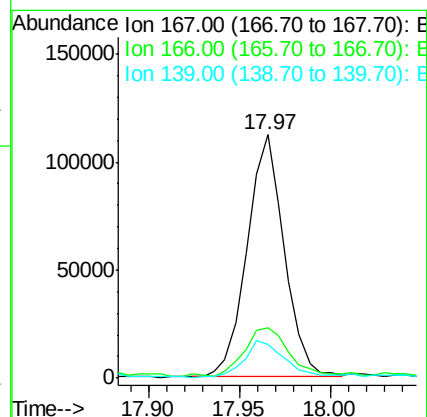
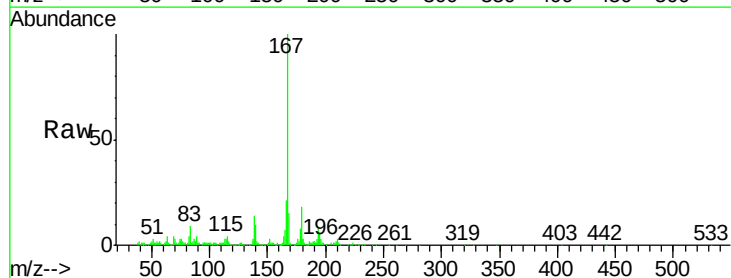
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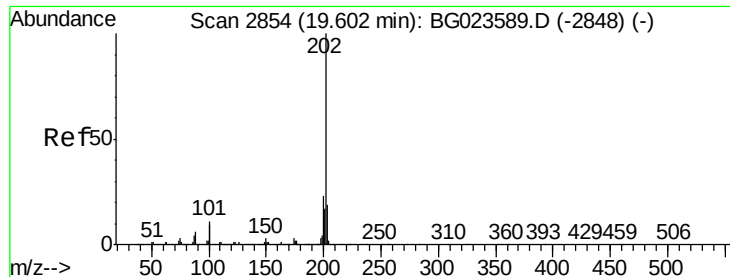
Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.3	18.5
176	19.3	16.3	24.5



#72
 Carbazole
 Concen: 2.61 ng/ul
 RT: 17.97 min Scan# 2575
 Delta R.T. 0.01 min
 Lab File: BG023611.D
 Acq: 11 Aug 2016 3:14

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.9	19.2	28.8
139	13.6	10.2	15.4





#74

Fluoranthene

Concen: 45.36 ng/ul

RT: 19.62 min Scan# 2856

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

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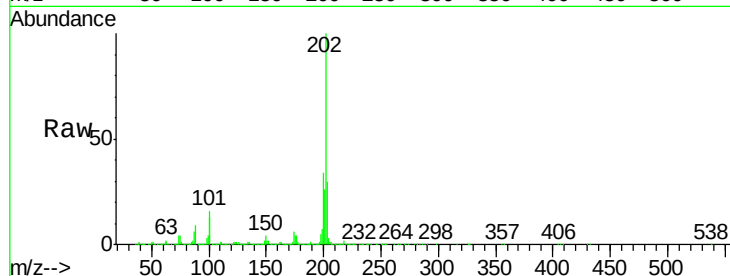
Tgt Ion:202 Resp: 3473949

Ion Ratio Lower Upper

202 100

101 15.8 10.6 16.0

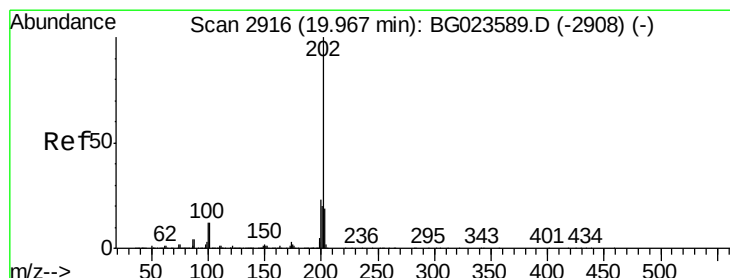
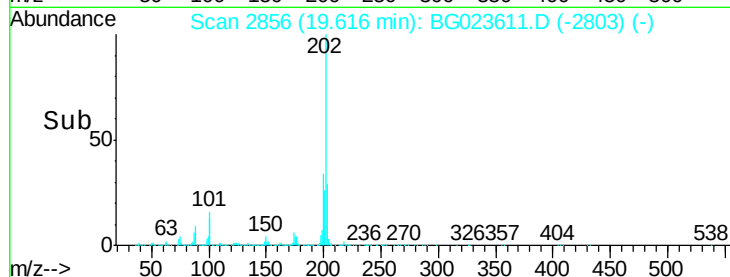
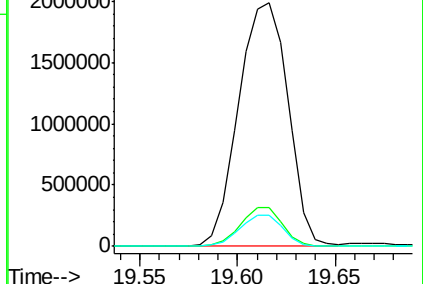
100 12.6 8.7 13.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 40.42 ng/ul

RT: 19.98 min Scan# 2918

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

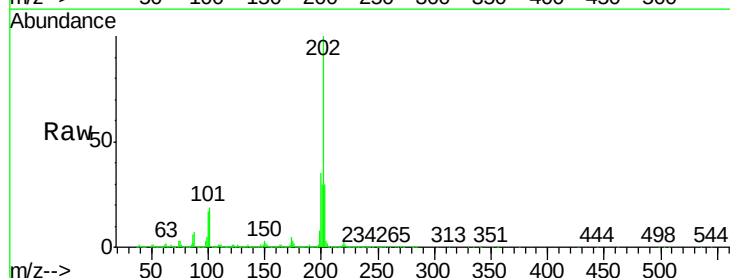
Tgt Ion:202 Resp: 3405923

Ion Ratio Lower Upper

202 100

101 19.4 12.5 18.7#

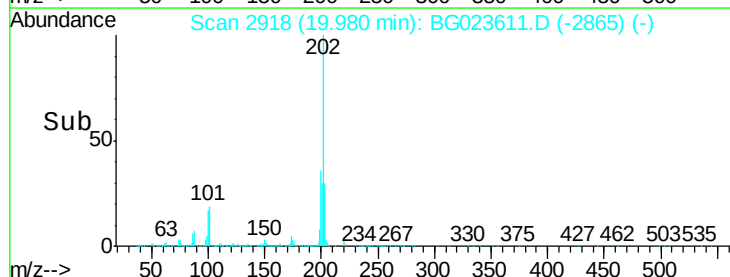
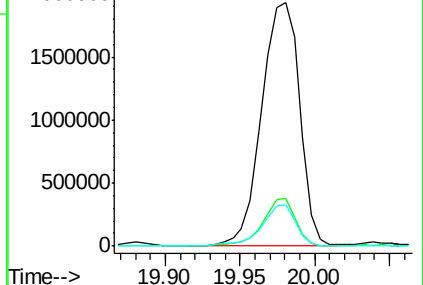
100 17.0 10.2 15.4#

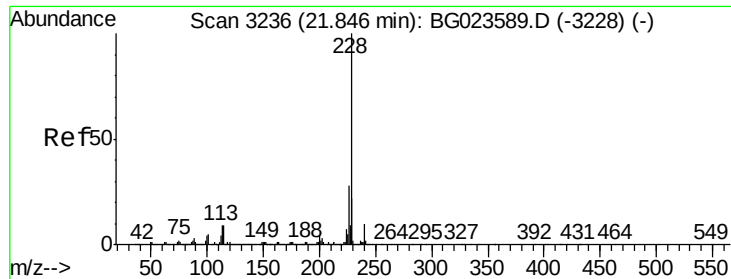


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 22.80 ng/ul

RT: 21.85 min Scan# 3237

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

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ClientSampleId :

P002-SS001-0002-01

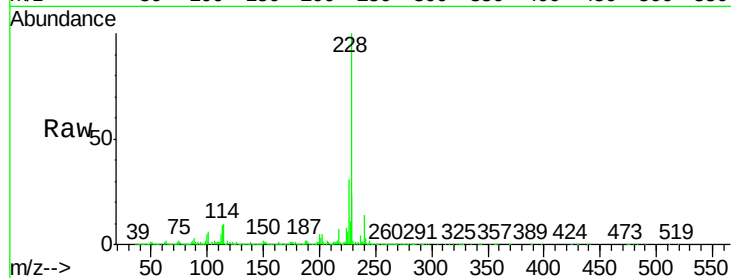
Tgt Ion:228 Resp: 1750186

Ion Ratio Lower Upper

228 100

229 23.0 15.4 23.2

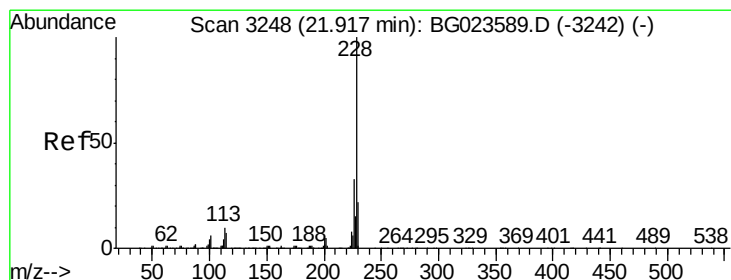
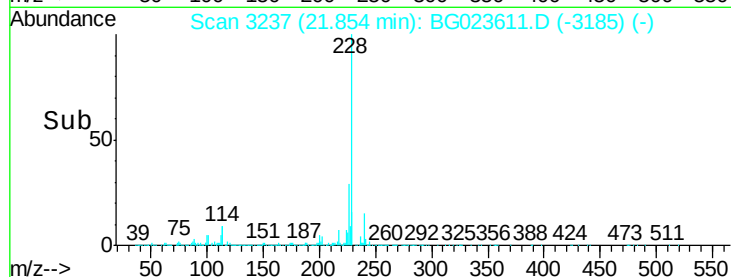
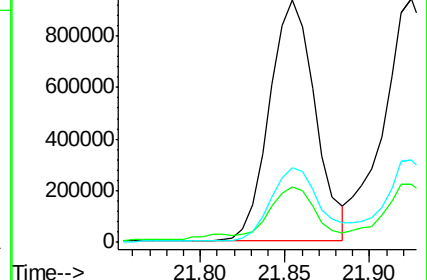
226 31.0 22.8 34.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 26.37 ng/ul

RT: 21.92 min Scan# 3249

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

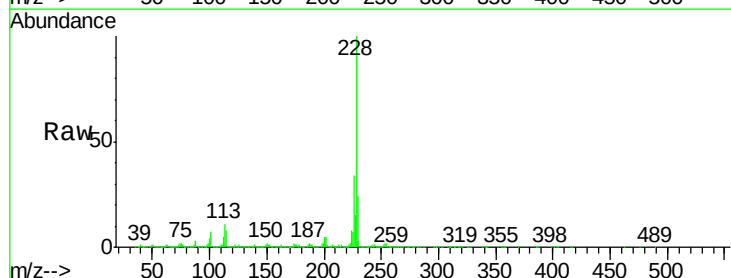
Tgt Ion:228 Resp: 1840898

Ion Ratio Lower Upper

228 100

226 34.0 24.2 36.4

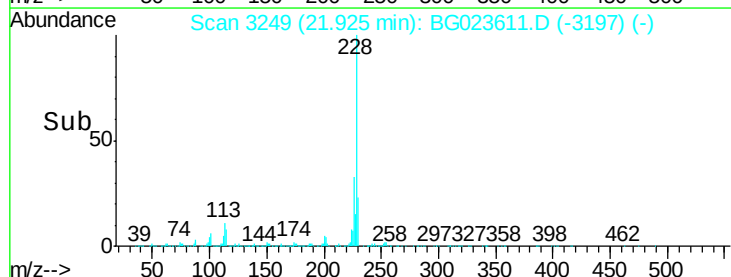
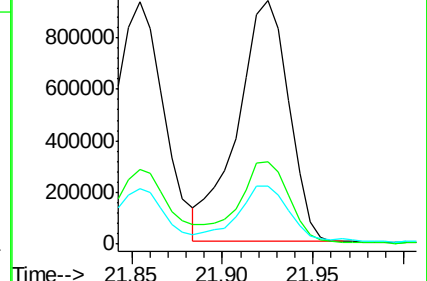
229 23.9 15.0 22.6#

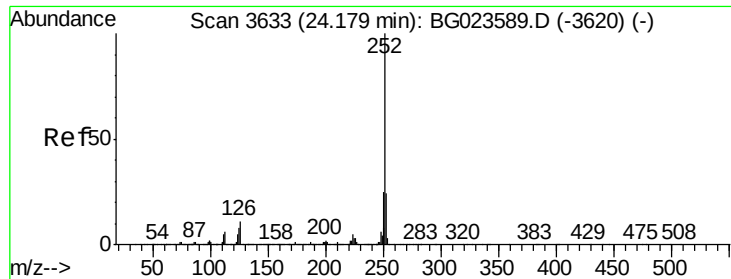


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 23.52 ng/ul

RT: 24.20 min Scan# 3636

Delta R.T. 0.02 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

Instrument :

BNA_G

ClientSampleId :

P002-SS001-0002-01

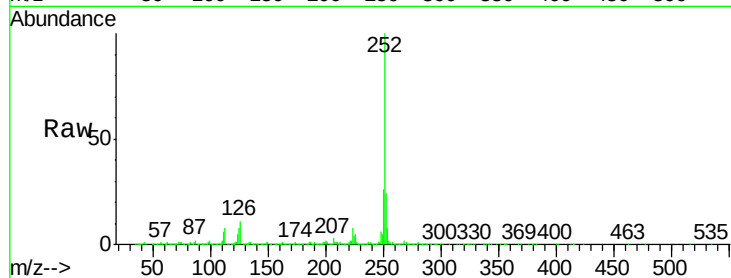
Tgt Ion:252 Resp: 1872579

Ion Ratio Lower Upper

252 100

253 23.6 18.2 27.2

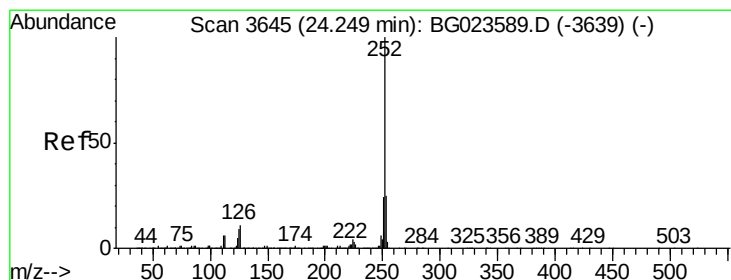
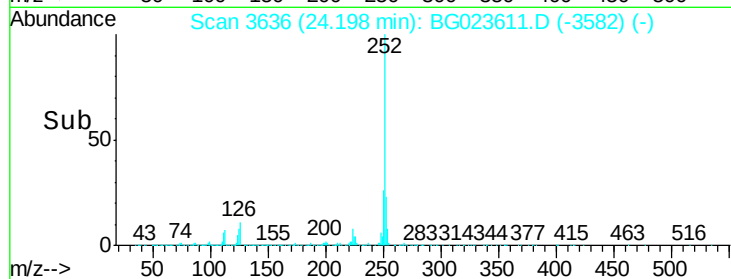
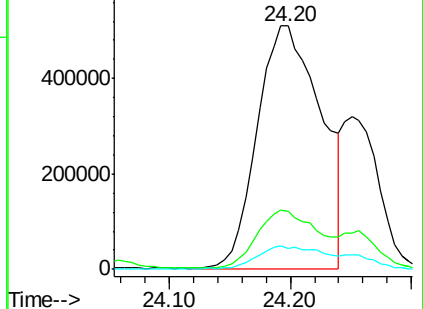
125 8.3 10.8 16.2#



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



#86

Benzo(k)fluoranthene

Concen: 23.89 ng/ul

RT: 24.20 min Scan# 3636

Delta R.T. -0.05 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

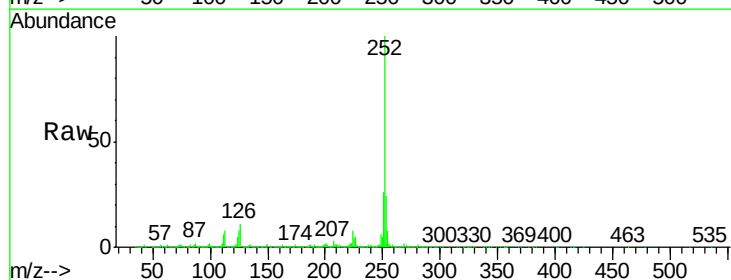
Tgt Ion:252 Resp: 1872579

Ion Ratio Lower Upper

252 100

253 23.6 15.8 23.6

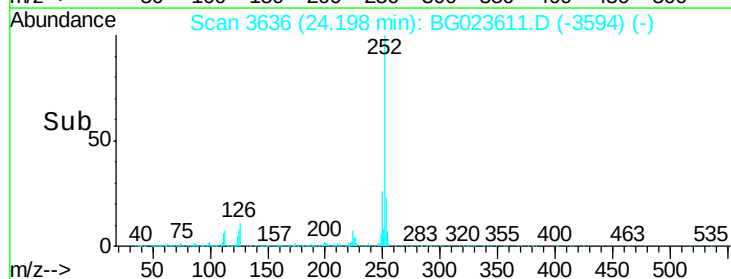
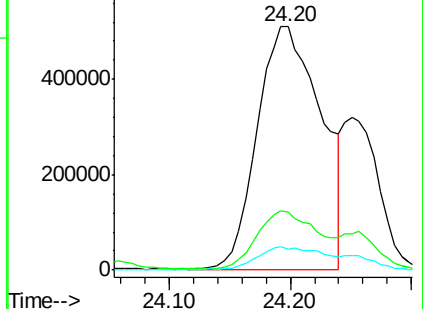
125 8.3 10.6 16.0#

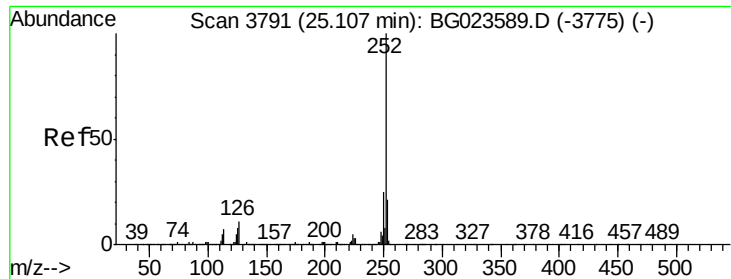


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 11.34 ng/ul

RT: 24.96 min Scan# 3765

Delta R.T. -0.15 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

Instrument :

BNA_G

ClientSampleId :

P002-SS001-0002-01

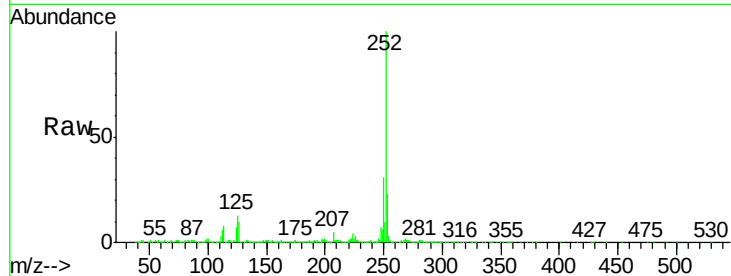
Tgt Ion:252 Resp: 871726

Ion Ratio Lower Upper

252 100

253 22.8 19.0 28.4

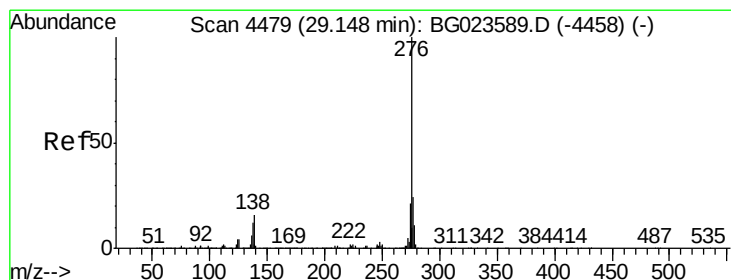
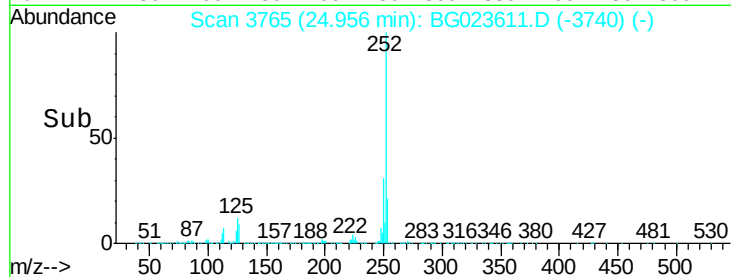
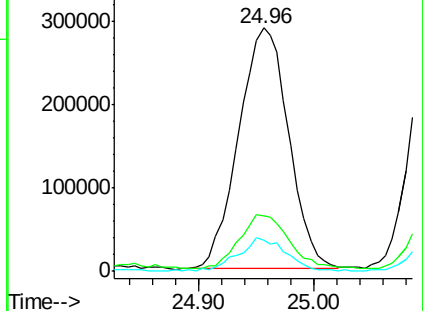
125 12.8 12.0 18.0



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

Indeno(1,2,3-cd)pyrene

Concen: 8.95 ng/ul

RT: 29.16 min Scan# 4480

Delta R.T. 0.01 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

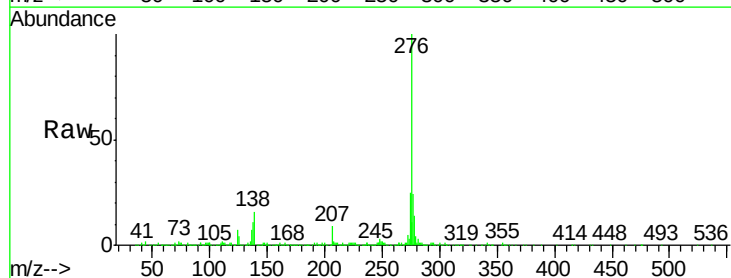
Tgt Ion:276 Resp: 808080

Ion Ratio Lower Upper

276 100

138 16.1 20.8 31.2#

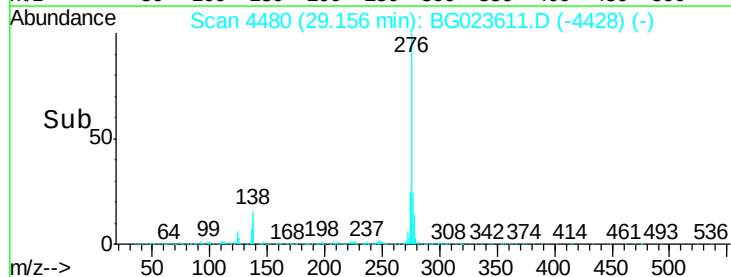
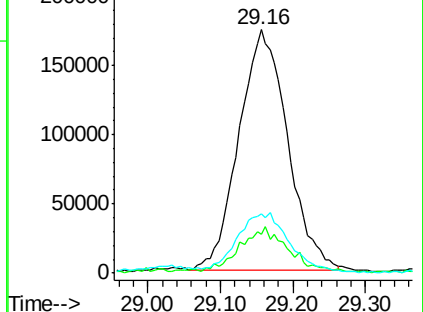
277 24.2 17.6 26.4

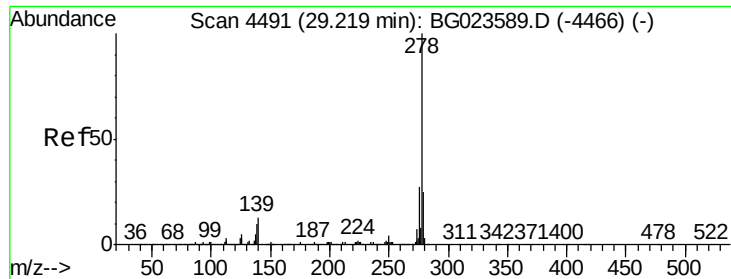


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 1.72 ng/ul

RT: 29.19 min Scan# 4486

Delta R.T. -0.03 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

Instrument :

BNA_G

ClientSampleId :

P002-SS001-0002-01

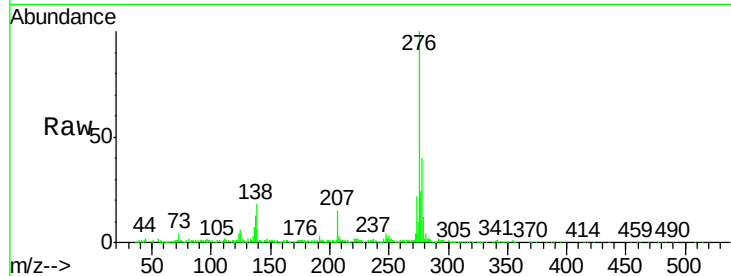
Tgt Ion:278 Resp: 132622

Ion Ratio Lower Upper

278 100

139 14.0 16.3 24.5#

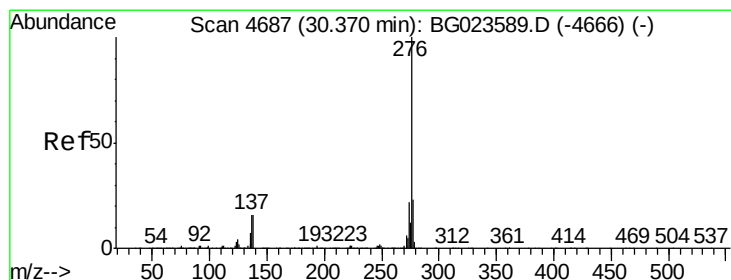
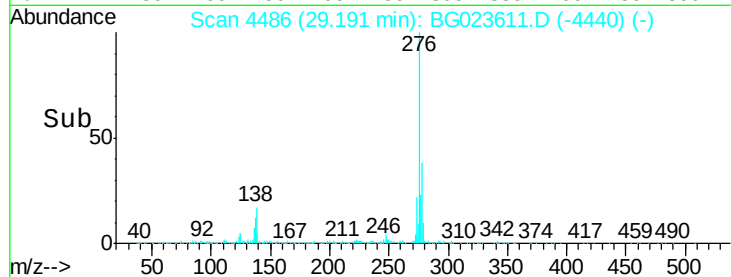
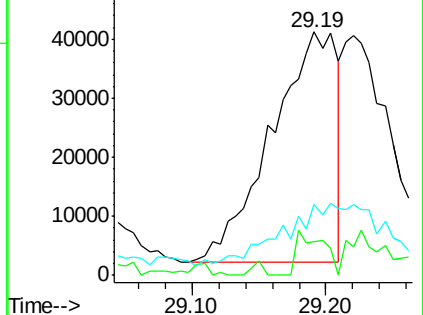
279 29.1 19.1 28.7#



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(g,h,i)perylene

Concen: 9.83 ng/ul

RT: 30.37 min Scan# 4687

Delta R.T. 0.00 min

Lab File: BG023611.D

Acq: 11 Aug 2016 3:14

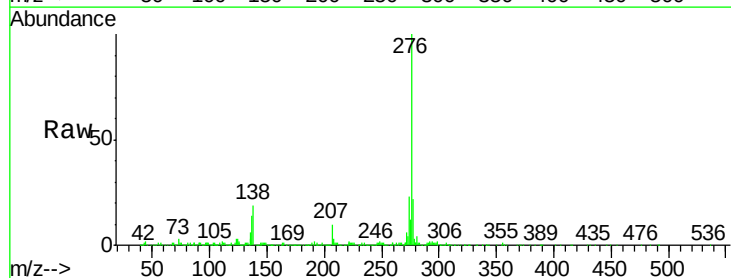
Tgt Ion:276 Resp: 736352

Ion Ratio Lower Upper

276 100

138 18.7 22.1 33.1#

277 22.1 17.0 25.4



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

