

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
 Data File : BG023673.D
 Acq On : 13 Aug 2016 2:00
 Operator : UM/SJ
 Sample : H4385-18
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 P003-SS001-0206-01

Quant Time: Aug 13 03:24:15 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Aug 13 03:19:50 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	107907	20.00	ng/ul	-0.02
18) Naphthalene-d8	10.95	136	499408	20.00	ng/ul	-0.02
35) Acenaphthene-d10	14.79	164	348061	20.00	ng/ul	-0.02
61) Phenanthrene-d10	17.55	188	770394	20.00	ng/ul	-0.01
75) Chrysene-d12	21.88	240	757493	20.00	ng/ul	-0.02
83) Perylene-d12	25.29	264	779862	20.00	ng/ul	-0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.48	96	8718	3.43	ng/uL	-0.01
5) Phenol-d5	7.27	99	227081	20.89	ng/ul	-0.02
7) Bis-(2-Chloroethyl)ether-d	7.43	67	151533	21.76	ng/ul	-0.02
9) 2-Chlorophenol-d4	7.64	132	161947	21.84	ng/ul	-0.02
13) 4-Methylphenol-d8	8.82	113	179261	21.12	ng/ul	-0.02
19) Nitrobenzene-d5	9.29	128	91197	23.17	ng/ul	-0.01
22) 2-Nitrophenol-d4	10.02	143	108406	23.98	ng/ul	-0.02
26) 2,4-Dichlorophenol-d3	10.57	165	186359	21.85	ng/ul	-0.02
29) 4-Chloroaniline-d4	11.09	131	220537	22.04	ng/ul	-0.02
43) Dimethylphthalate-d6	14.18	166	655852	23.01	ng/ul	-0.01
46) Acenaphthylene-d8	14.48	160	771541	24.06	ng/ul	-0.01
51) 4-Nitrophenol-d4	15.01	143	85789	17.63	ng/ul	-0.01
57) Fluorene-d10	15.79	176	596341	22.65	ng/ul	-0.01
62) 4,6-Dinitro-2-methylphenol	15.92	200	86511	17.50	ng/ul	-0.02
70) Anthracene-d10	17.65	188	864800	24.92	ng/ul	-0.01
76) Pyrene-d10	19.95	212	888944	23.18	ng/ul	-0.01
87) Benzo(a)pyrene-d12	25.06	264	873180	24.74	ng/ul	-0.03

Target Compounds

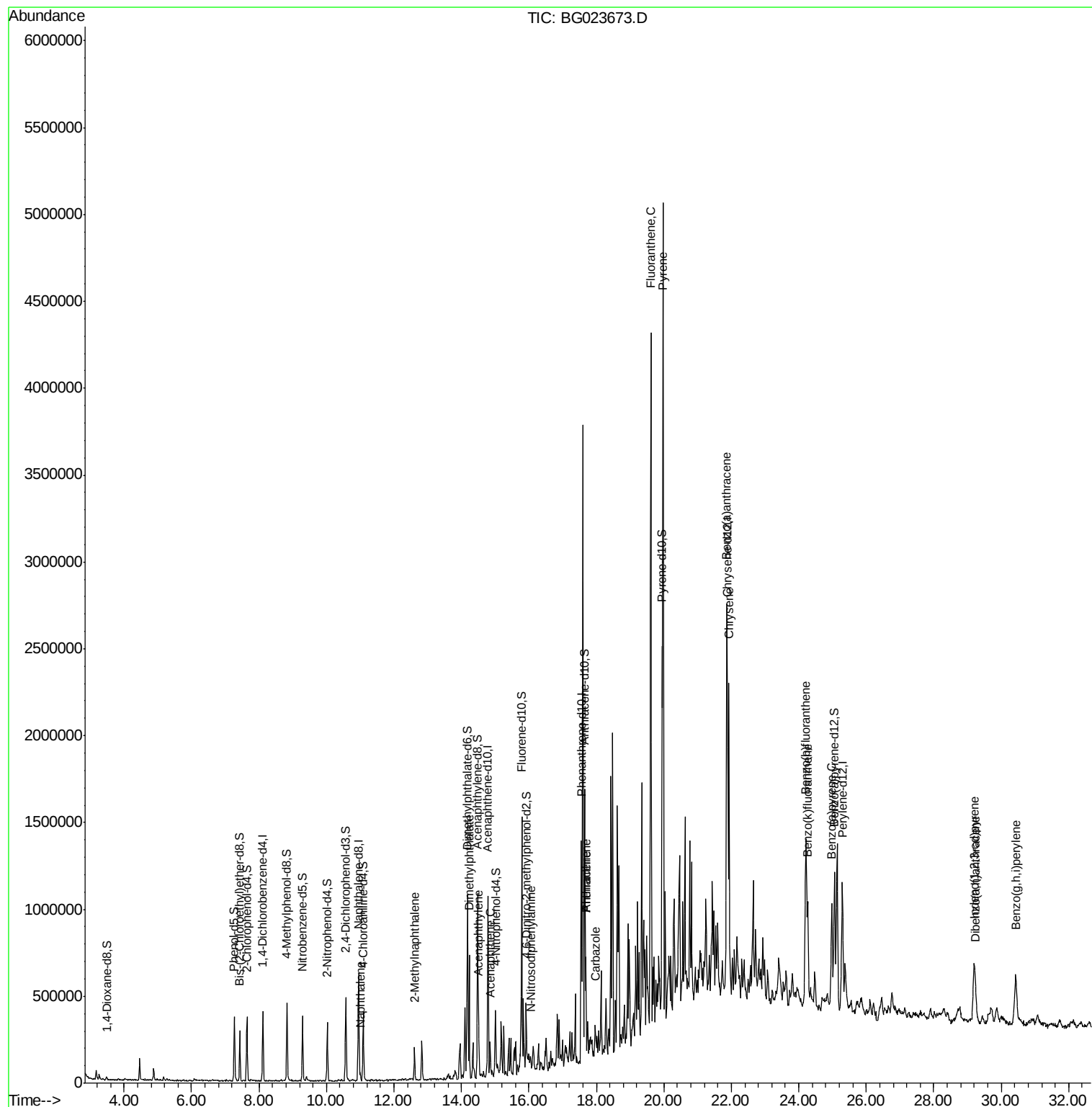
					Qvalue
28) Naphthalene	11.00	128	39785	1.57 ng/ul	98
34) 2-Methylnaphthalene	12.61	142	87662	4.26 ng/ul	95
44) Dimethylphthalate	14.23	163	420241	14.89 ng/ul	98
47) Acenaphthylene	14.51	152	131151	3.91 ng/ul#	92
49) Acenaphthene	14.85	153	73981	3.24 ng/ul	95
64) N-Nitrosodiphenylamine	16.04	169	22494	1.04 ng/ul#	65
69) Phenanthrene	17.69	178	367284	9.21 ng/ul	99
71) Anthracene	17.69	178	367113	9.02 ng/ul	99
72) Carbazole	17.96	167	78762	2.40 ng/ul	92
74) Fluoranthene	19.62	202	2312529	56.62 ng/ul	96
77) Pyrene	19.98	202	2507460	53.55 ng/ul	98
80) Benzo(a)anthracene	21.86	228	1240135	29.07 ng/ul#	94
82) Chrysene	21.93	228	1242372	32.03 ng/ul#	92
85) Benzo(b)fluoranthene	24.21	252	1305884	29.44 ng/ul#	95
86) Benzo(k)fluoranthene	24.27	252	366435	8.39 ng/ul#	88
88) Benzo(a)pyrene	24.97	252	685919	16.02 ng/ul	97
89) Indeno(1,2,3-cd)pyrene	29.20	276	619963	12.32 ng/ul#	87
90) Dibenzo(a,h)anthracene	29.25	278	128260	2.99 ng/ul#	87
91) Benzo(g,h,i)perylene	30.43	276	571157	13.69 ng/ul#	87

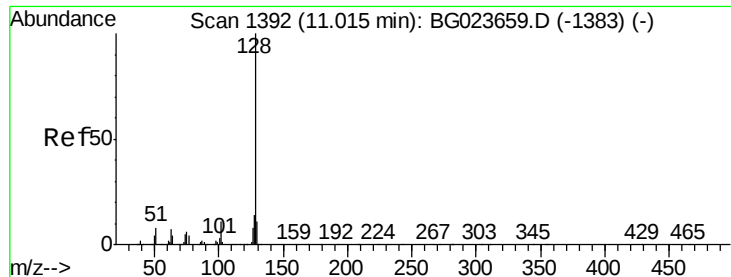
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 1.57 ng/ul

RT: 11.00 min Scan# 1390

Delta R.T. -0.01 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

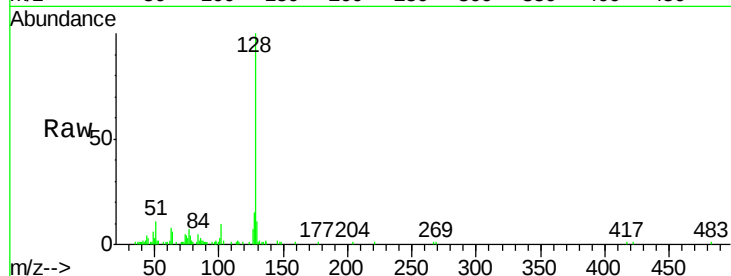
BNA_G

ClientSampleId :

P003-SS001-0206-01

Tgt Ion:128 Resp: 39785

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.4	14.2
127	15.2	11.2	16.8

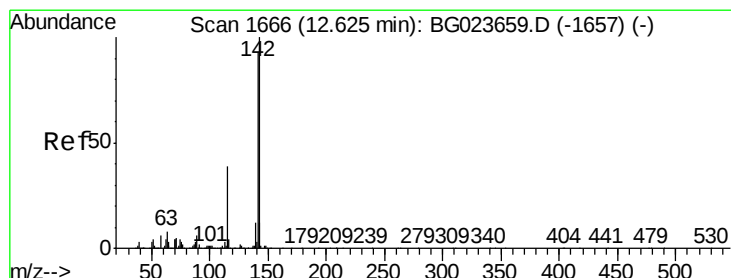
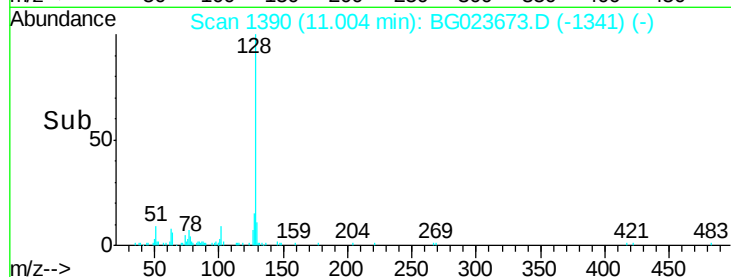
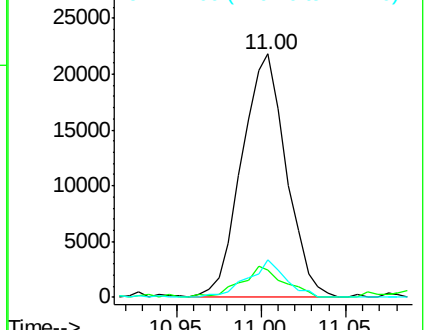


Abundance

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



#34

2-Methylnaphthalene

Concen: 4.26 ng/ul

RT: 12.61 min Scan# 1663

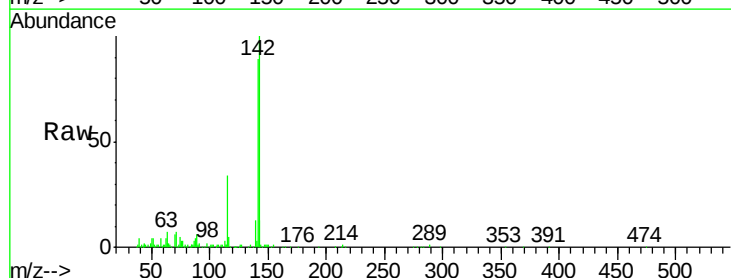
Delta R.T. -0.02 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Tgt Ion:142 Resp: 87662

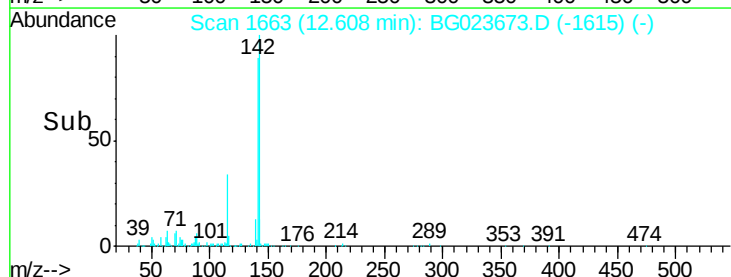
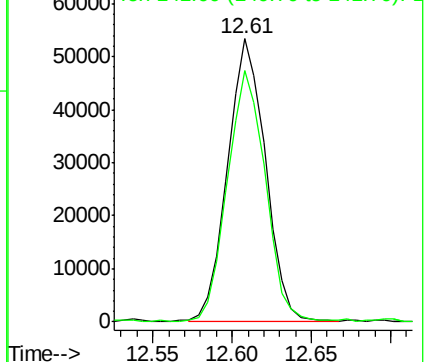
Ion	Ratio	Lower	Upper
142	100		
141	88.9	75.2	112.8

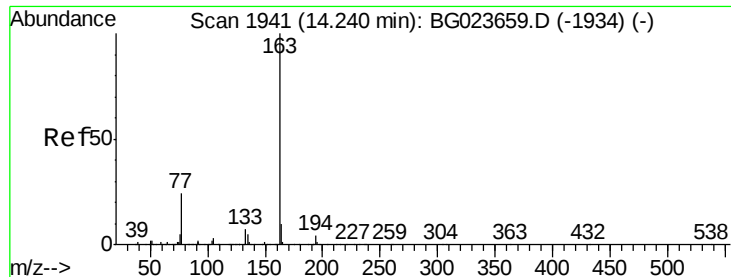


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#44

Dimethylphthalate

Concen: 14.89 ng/ul

RT: 14.23 min Scan# 1939

Delta R.T. -0.01 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

BNA_G

ClientSampleId :

P003-SS001-0206-01

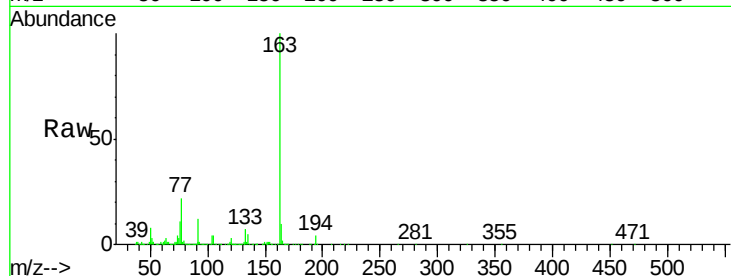
Tgt Ion:163 Resp: 420241

Ion Ratio Lower Upper

163 100

194 4.3 3.4 5.2

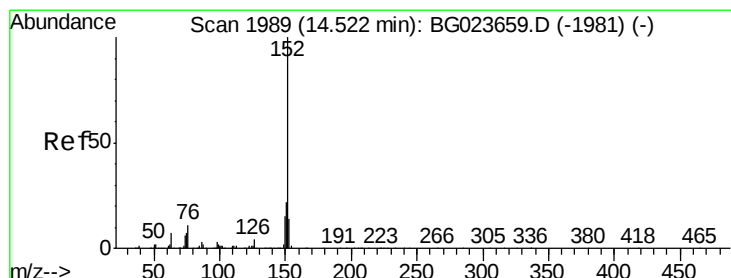
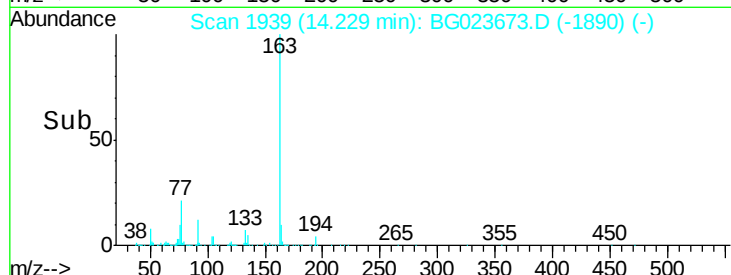
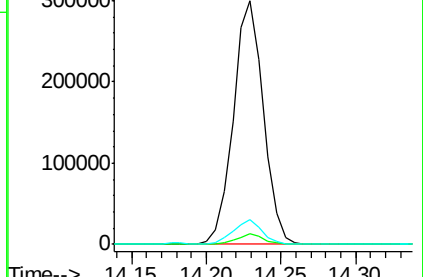
164 9.9 8.8 13.2



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: 3.91 ng/ul

RT: 14.51 min Scan# 1987

Delta R.T. -0.01 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

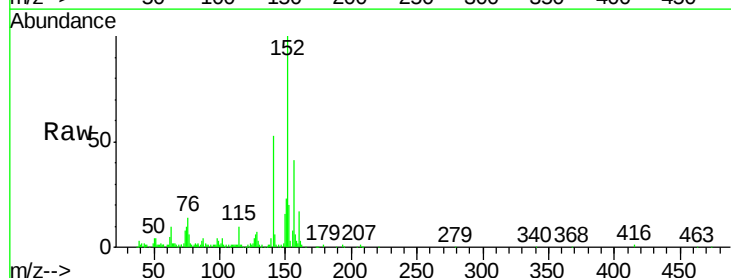
Tgt Ion:152 Resp: 131151

Ion Ratio Lower Upper

152 100

151 23.4 17.5 26.3

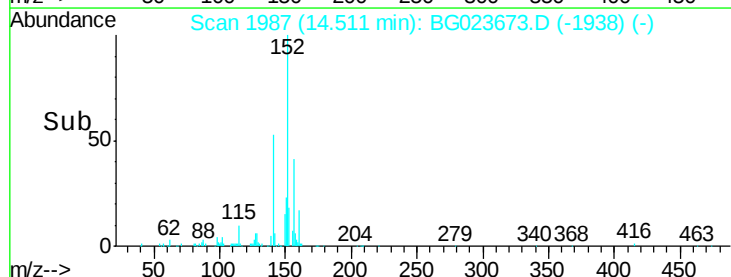
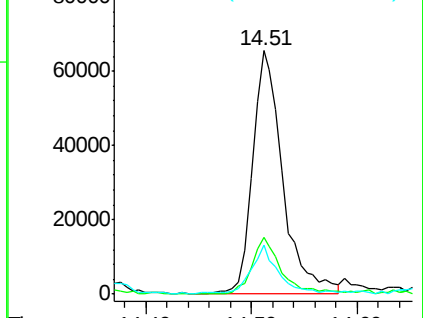
153 20.1 11.1 16.7#

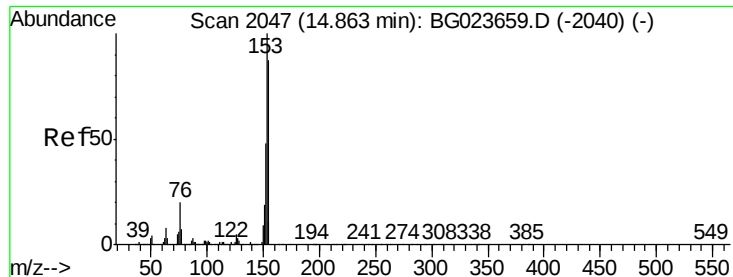


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 3.24 ng/ul

RT: 14.85 min Scan# 2045

Delta R.T. -0.01 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

BNA_G

ClientSampleId :

P003-SS001-0206-01

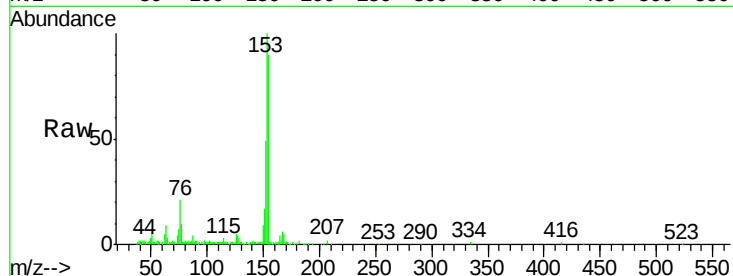
Tgt Ion:153 Resp: 73981

Ion Ratio Lower Upper

153 100

152 48.6 37.3 55.9

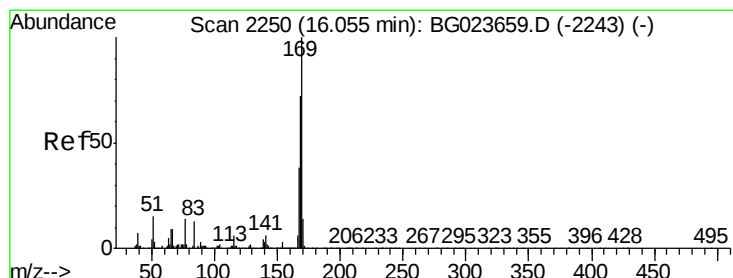
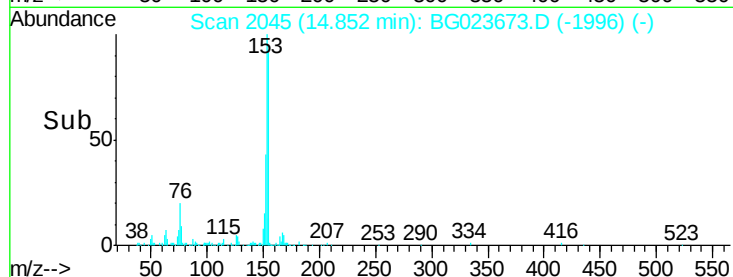
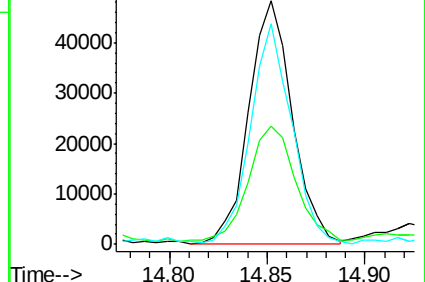
154 90.3 68.2 102.2



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



#64

N-Nitrosodiphenylamine

Concen: 1.04 ng/ul

RT: 16.04 min Scan# 2248

Delta R.T. -0.01 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

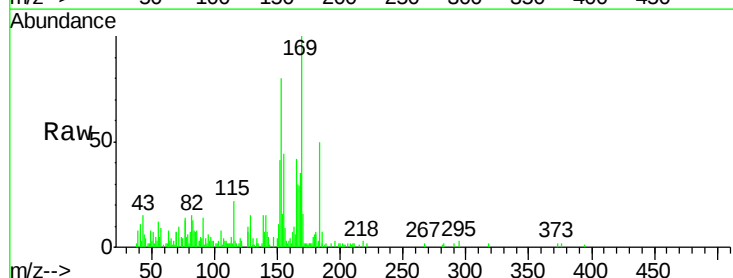
Tgt Ion:169 Resp: 22494

Ion Ratio Lower Upper

169 100

168 35.1 59.0 88.6#

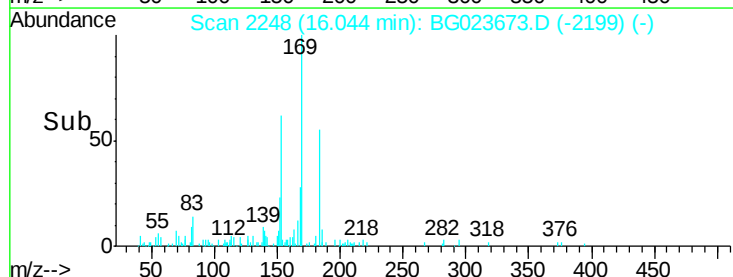
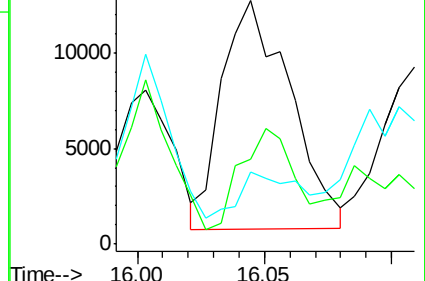
167 29.5 30.6 46.0#

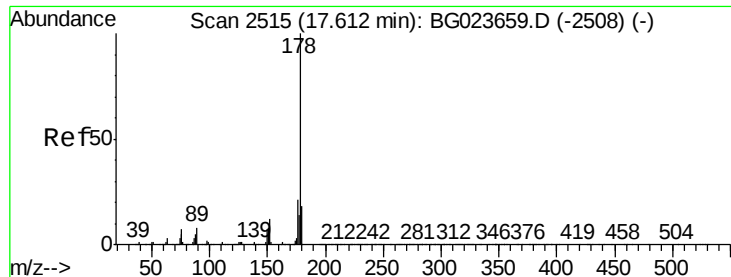


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 9.21 ng/ul

RT: 17.69 min Scan# 2528

Delta R.T. 0.08 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

BNA_G

ClientSampleId :

P003-SS001-0206-01

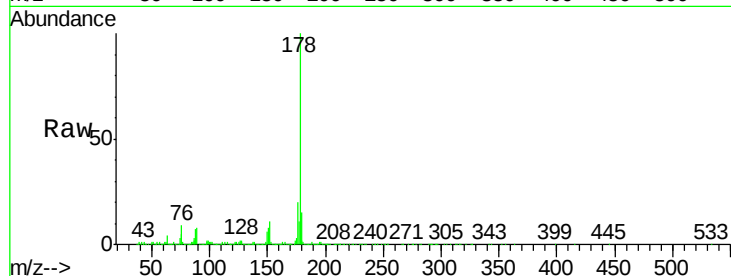
Tgt Ion:178 Resp: 367284

Ion Ratio Lower Upper

178 100

179 15.2 12.9 19.3

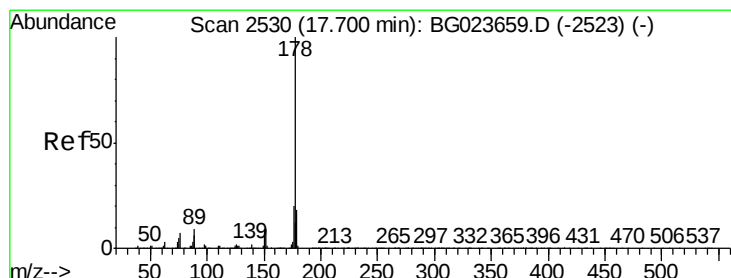
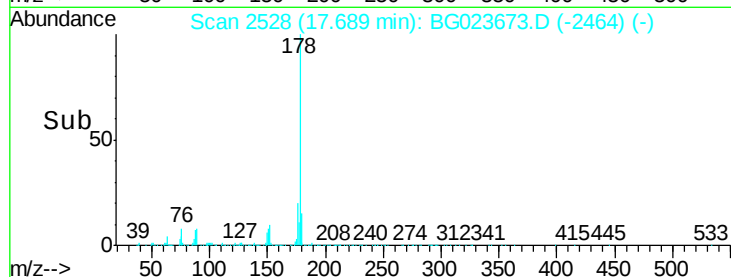
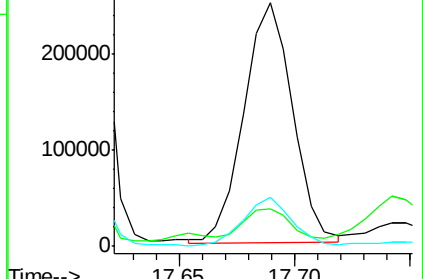
176 20.0 15.8 23.8



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: 9.02 ng/ul

RT: 17.69 min Scan# 2528

Delta R.T. -0.01 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

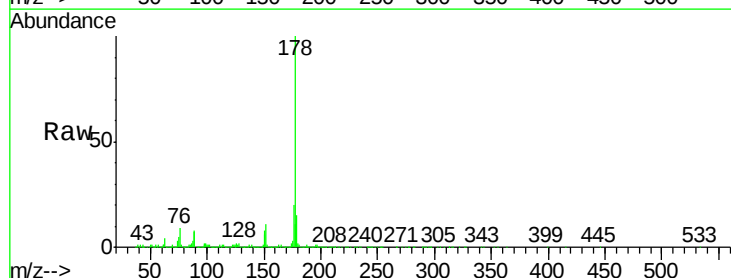
Tgt Ion:178 Resp: 367113

Ion Ratio Lower Upper

178 100

179 15.2 12.3 18.5

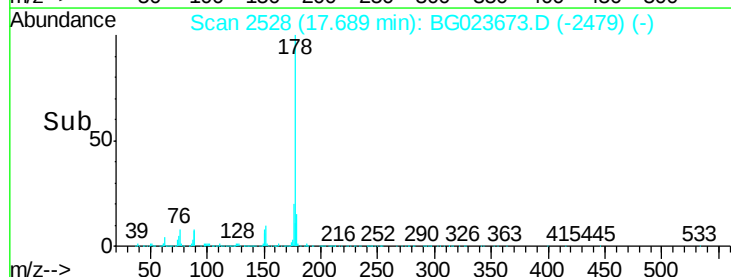
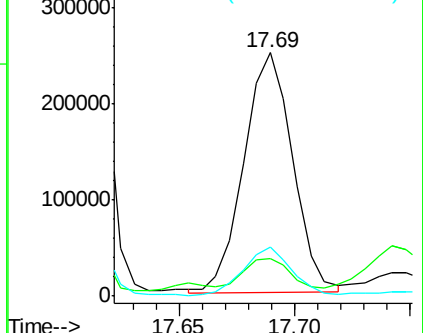
176 20.0 16.3 24.5

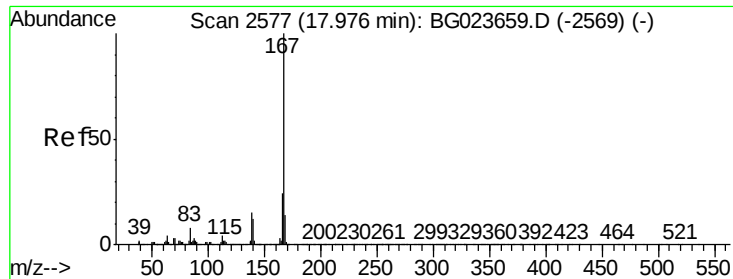


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 2.40 ng/ul

RT: 17.96 min Scan# 2574

Delta R.T. -0.02 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

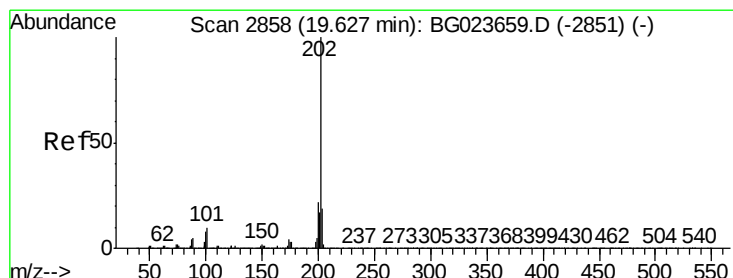
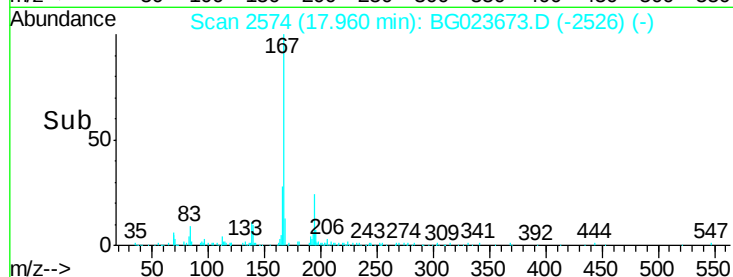
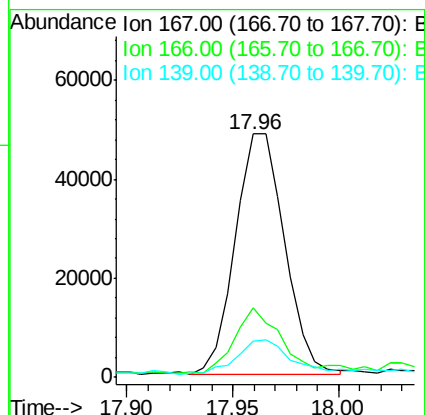
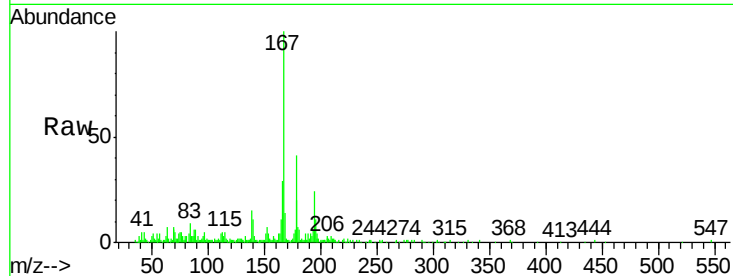
Instrument :

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Tgt Ion:	167	Resp:	78762
Ion Ratio	Lower	Upper	
167	100		
166	28.6	19.2	28.8
139	15.1	10.2	15.4



#74

Fluoranthene

Concen: 56.62 ng/ul

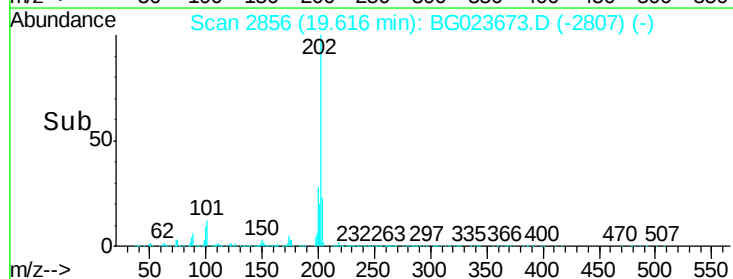
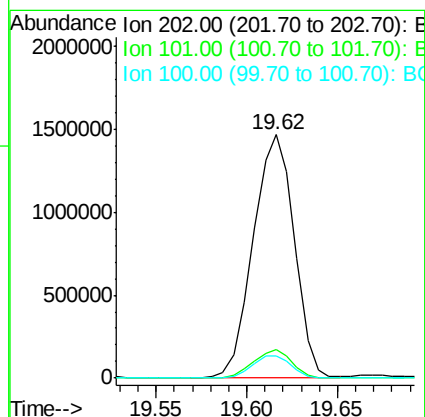
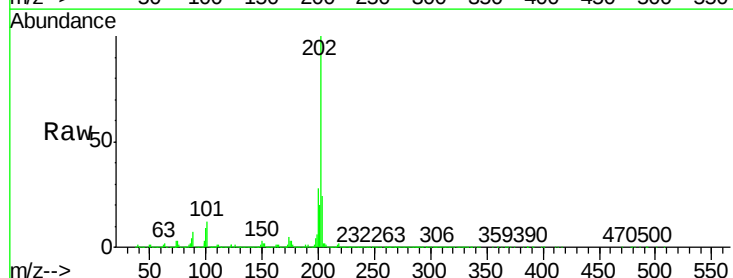
RT: 19.62 min Scan# 2856

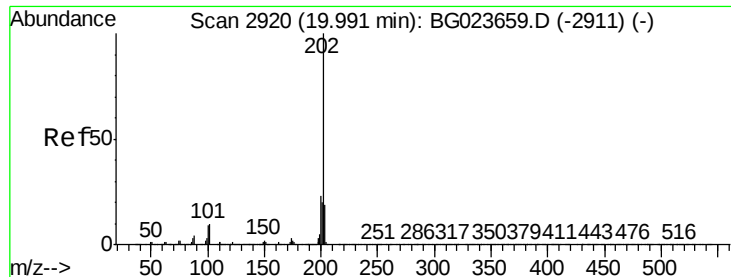
Delta R.T. -0.01 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Tgt Ion:	202	Resp:	2312529
Ion Ratio	Lower	Upper	
202	100		
101	11.8	10.6	16.0
100	9.3	8.7	13.1





#77

Pyrene

Concen: 53.55 ng/ul

RT: 19.98 min Scan# 2918

Delta R.T. -0.01 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

BNA_G

ClientSampleId :

P003-SS001-0206-01

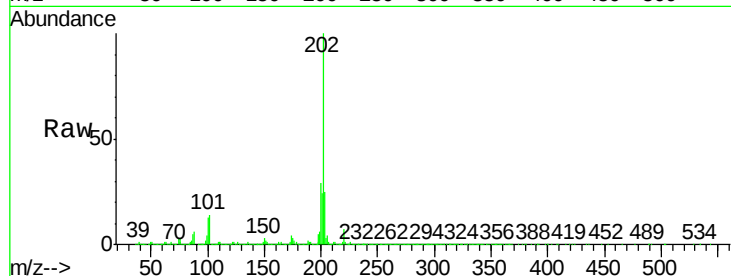
Tgt Ion:202 Resp: 2507460

Ion Ratio Lower Upper

202 100

101 14.4 12.5 18.7

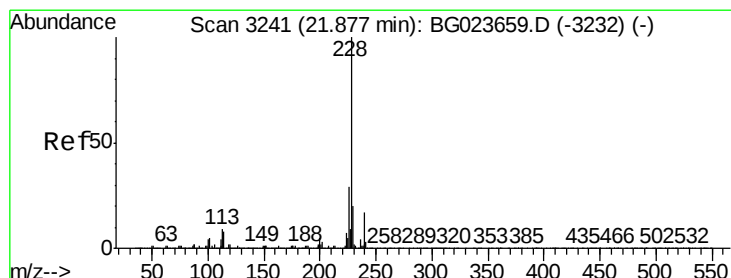
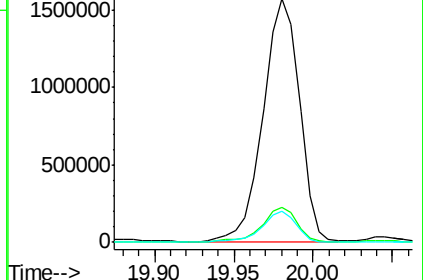
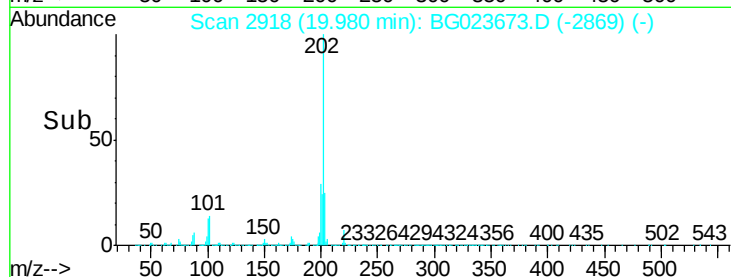
100 13.0 10.2 15.4



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): E



#80

Benzo(a)anthracene

Concen: 29.07 ng/ul

RT: 21.86 min Scan# 3238

Delta R.T. -0.02 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

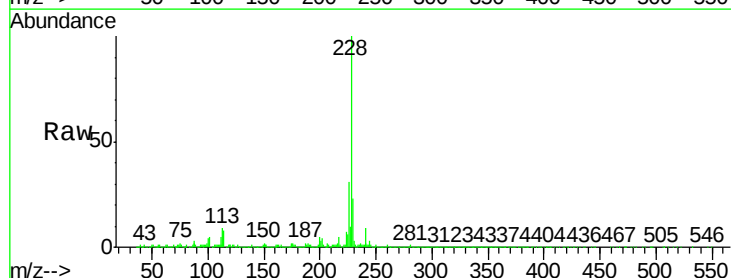
Tgt Ion:228 Resp: 1240135

Ion Ratio Lower Upper

228 100

229 23.3 15.4 23.2#

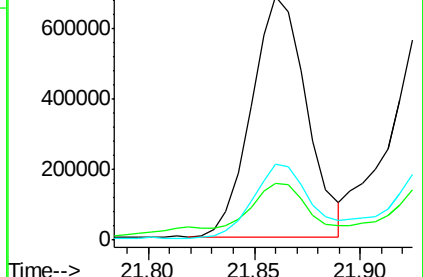
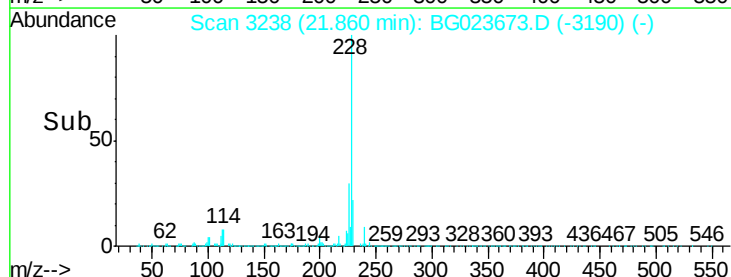
226 31.0 22.8 34.2

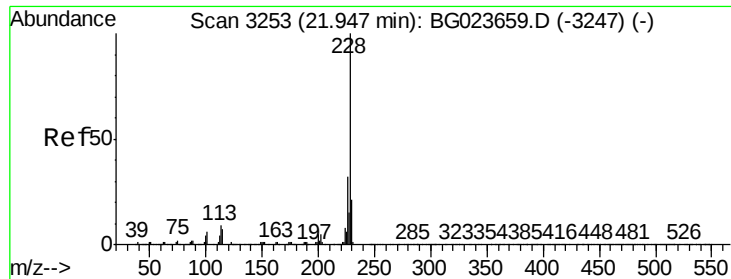


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 32.03 ng/ul

RT: 21.93 min Scan# 3250

Delta R.T. -0.02 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

BNA_G

ClientSampleId :

P003-SS001-0206-01

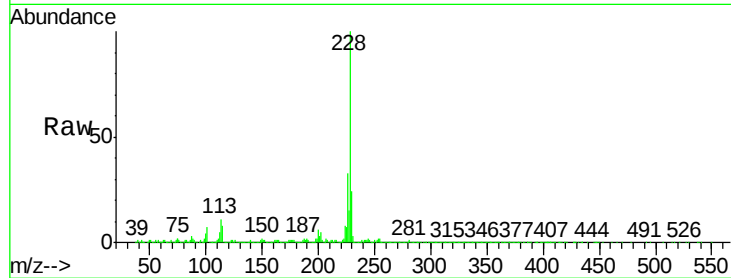
Tgt Ion:228 Resp: 1242372

Ion Ratio Lower Upper

228 100

226 33.0 24.2 36.4

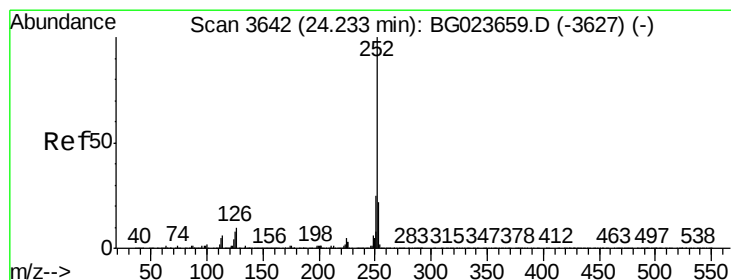
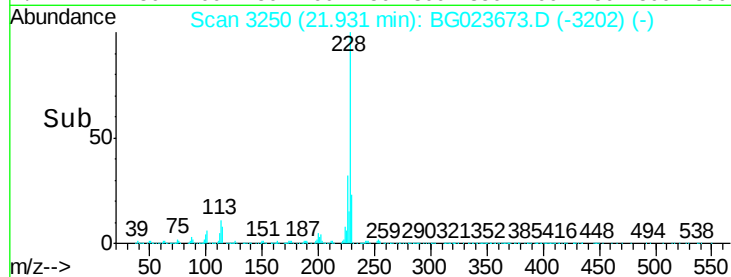
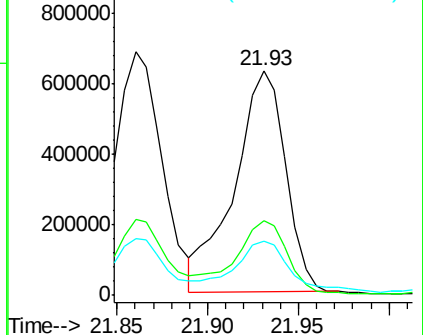
229 24.0 15.0 22.6#



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: 29.44 ng/ul

RT: 24.21 min Scan# 3638

Delta R.T. -0.02 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

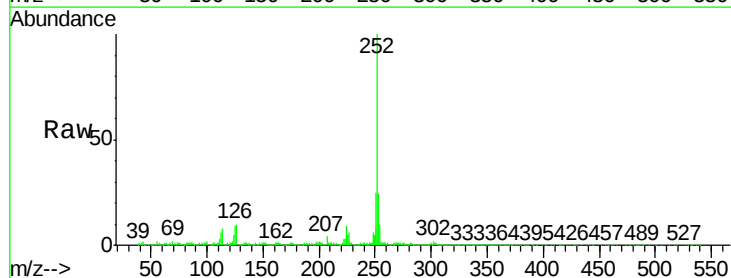
Tgt Ion:252 Resp: 1305884

Ion Ratio Lower Upper

252 100

253 23.8 18.2 27.2

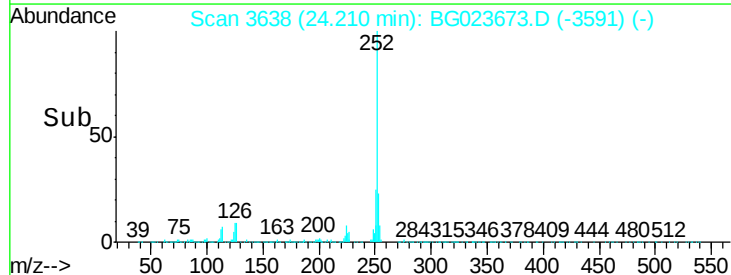
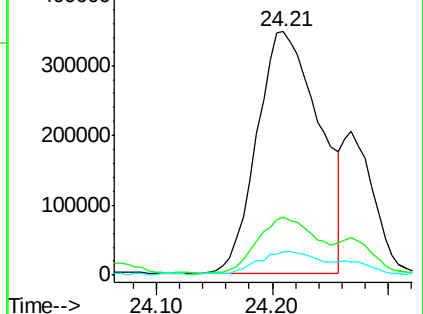
125 9.4 10.8 16.2#

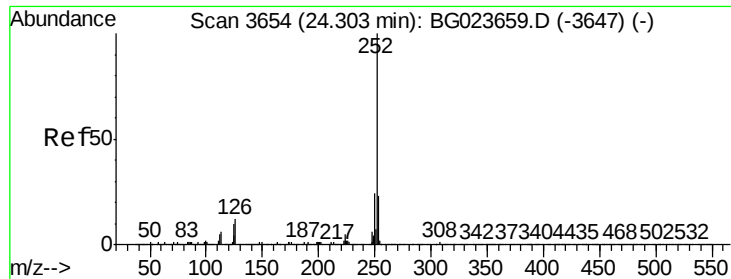


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#86

Benzo(k)fluoranthene

Concen: 8.39 ng/ul

RT: 24.27 min Scan# 3648

Delta R.T. -0.03 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

BNA_G

ClientSampleId :

P003-SS001-0206-01

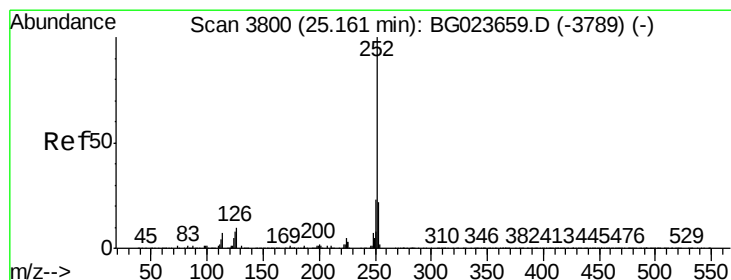
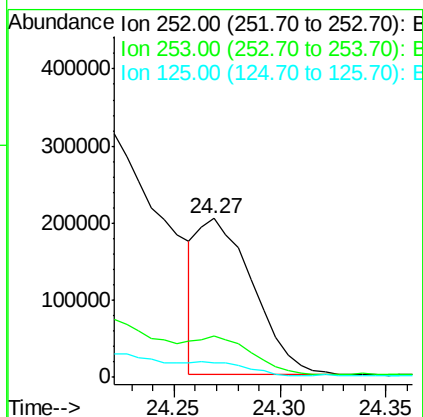
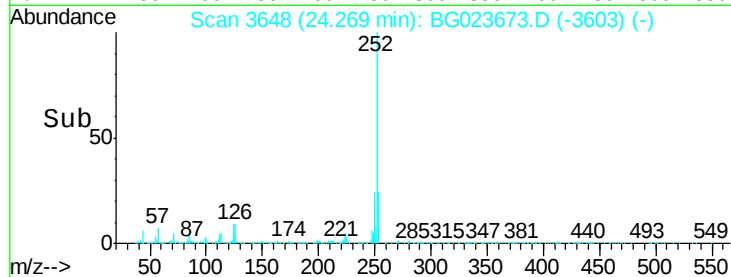
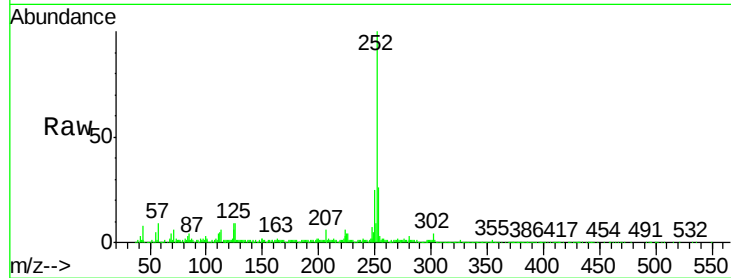
Tgt Ion:252 Resp: 366435

Ion Ratio Lower Upper

252 100

253 25.7 15.8 23.6#

125 9.2 10.6 16.0#



#88

Benzo(a)pyrene

Concen: 16.02 ng/ul

RT: 24.97 min Scan# 3768

Delta R.T. -0.19 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

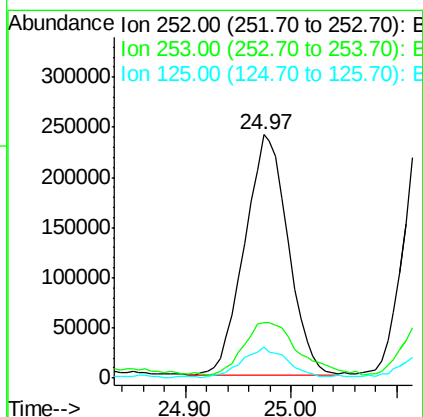
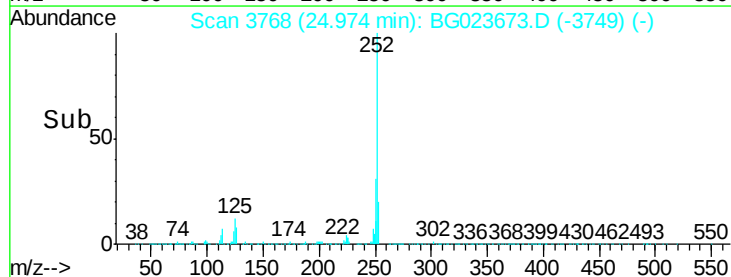
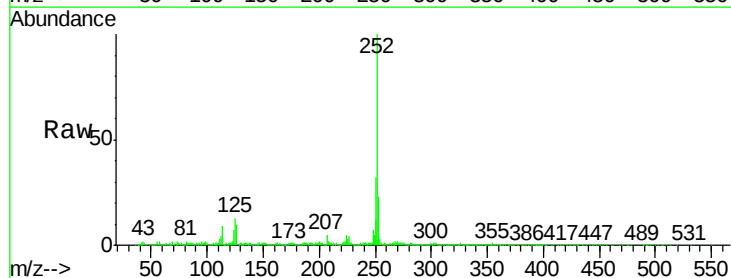
Tgt Ion:252 Resp: 685919

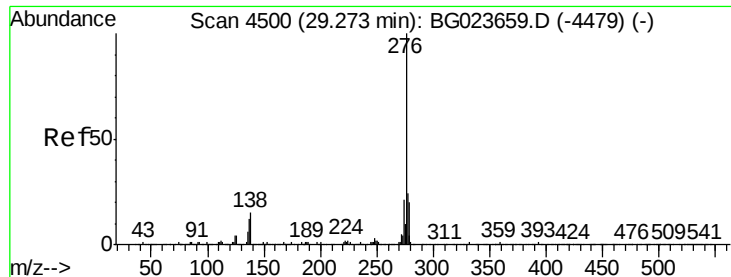
Ion Ratio Lower Upper

252 100

253 23.0 19.0 28.4

125 12.6 12.0 18.0





#89

Indeno(1,2,3-cd)pyrene

Concen: 12.32 ng/ul

RT: 29.20 min Scan# 4487

Delta R.T. -0.08 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

BNA_G

ClientSampleId :

P003-SS001-0206-01

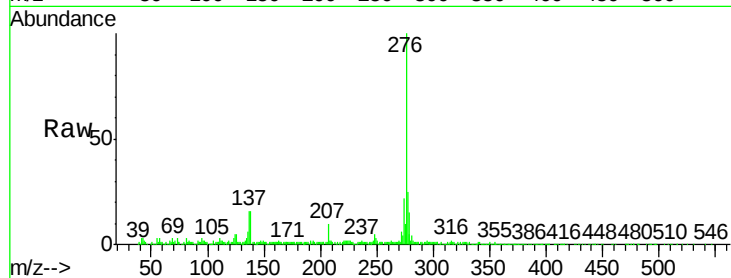
Tgt Ion:276 Resp: 619963

Ion Ratio Lower Upper

276 100

138 16.4 20.8 31.2#

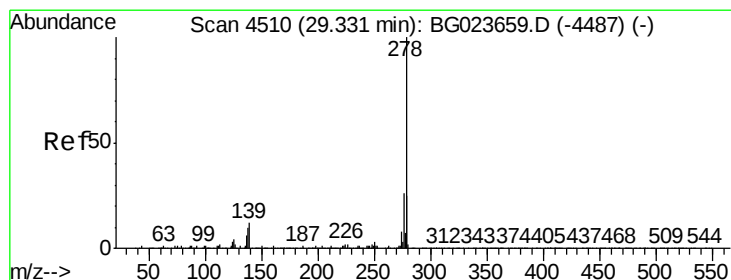
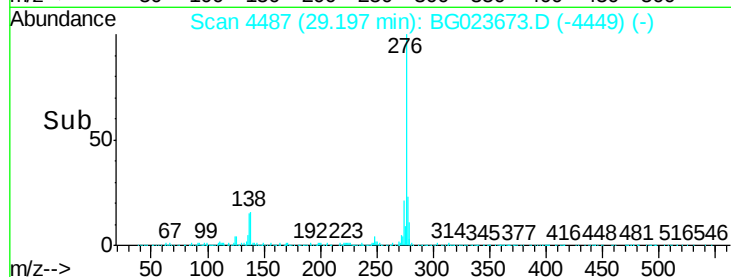
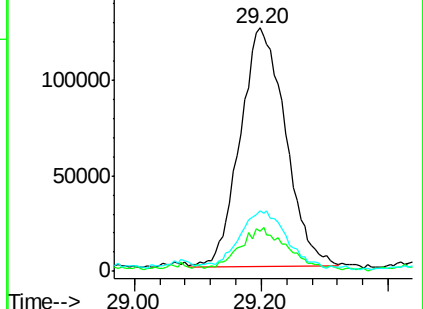
277 25.0 17.6 26.4



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: 2.99 ng/ul

RT: 29.25 min Scan# 4496

Delta R.T. -0.08 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

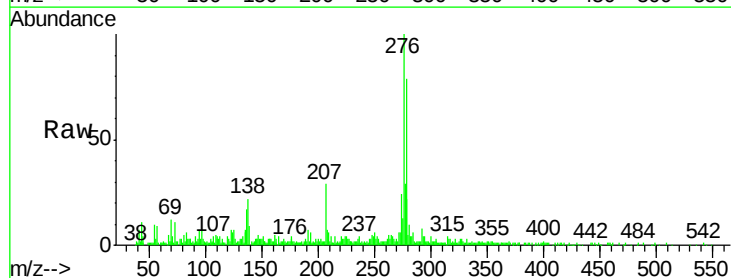
Tgt Ion:278 Resp: 128260

Ion Ratio Lower Upper

278 100

139 11.2 16.3 24.5#

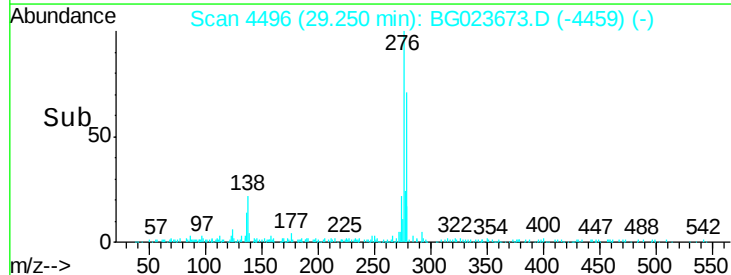
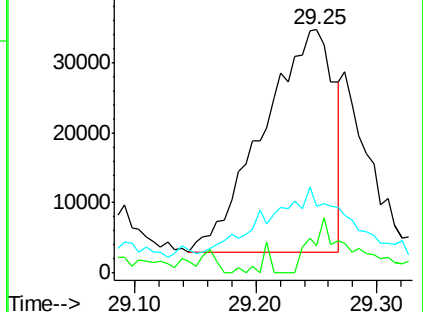
279 27.5 19.1 28.7

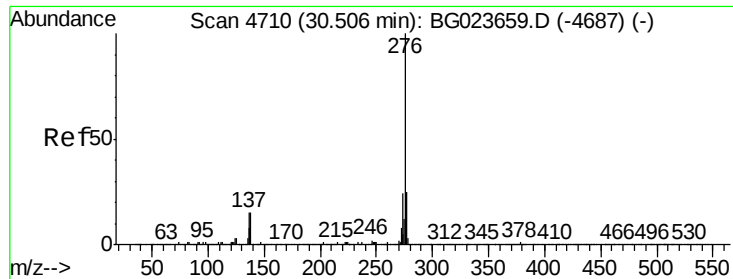


Abundance Ion 278.00 (277.70 to 278.70): E

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: 13.69 ng/ul

RT: 30.43 min Scan# 4696

Delta R.T. -0.08 min

Lab File: BG023673.D

Acq: 13 Aug 2016 2:00

Instrument :

BNA_G

ClientSampleId :

P003-SS001-0206-01

Tgt Ion:276 Resp: 571157

Ion Ratio Lower Upper

276 100

138 15.9 22.1 33.1#

277 21.9 17.0 25.4

