

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080515\
 Data File : BG018290.D
 Acq On : 6 Aug 2015 2:41
 Operator : UM/TP
 Sample : G3109-21RE
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02F5RE

Quant Time: Aug 06 05:05:38 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 06 03:42:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	48389	20.00	ng/ul	0.00
18) Naphthalene-d8	10.22	136	210470	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.12	164	119215	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.88	188	183118	20.00	ng/ul	0.01
78) Chrysene-d12	21.10	240	160345	20.00	ng/ul	0.02
86) Perylene-d12	23.28	264	168692	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.92	96	1374	2.45	ng/uL	0.01
5) Phenol-d5	6.65	99	56472	14.84	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.78	67	28546	15.52	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	48171	15.20	ng/ul	0.00
13) 4-Methylphenol-d8	8.18	113	36269	11.29	ng/ul	0.01
19) Nitrobenzene-d5	8.60	128	26728	16.40	ng/ul	0.01
22) 2-Nitrophenol-d4	9.31	143	32633	17.31	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	9.87	165	54435	15.71	ng/ul	0.01
29) 4-Chloroaniline-d4	10.38	131	10479	2.52	ng/ul	0.02
44) Dimethylphthalate-d6	13.54	166	162997	17.68	ng/ul	0.01
47) Acenaphthylene-d8	13.81	160	182199	17.43	ng/ul	0.00
52) 4-Nitrophenol-d4	14.39	143	17132	11.26	ng/ul	0.02
58) Fluorene-d10	15.13	176	127870	15.44	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.28	200	4964	3.92	ng/ul	0.02
71) Anthracene-d10	16.98	188	130520	16.20	ng/ul	0.01
79) Pyrene-d10	19.30	212	97453	10.86	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.28	264	166678	18.99	ng/ul	0.18

Target Compounds

						Qvalue
14) Acetophenone	8.26	105	6107	1.18	ng/ul	96
28) Naphthalene	10.27	128	22459	2.27	ng/ul#	90
34) 2-Methylnaphthalene	11.90	142	13963	1.76	ng/ul	99
35) 1-Methylnaphthalene	12.12	142	9682	1.26	ng/ul	97
45) Dimethylphthalate	13.59	163	88222	9.59	ng/ul	99
50) Acenaphthene	14.19	153	37092	5.32	ng/ul	91
54) Dibenzofuran	14.53	168	28722	2.80	ng/ul	98
59) Fluorene	15.18	166	38307	4.25	ng/ul	88
65) N-Nitrosodiphenylamine	15.40	169	5022	1.04	ng/ul	96
70) Phenanthrene	16.93	178	634033	68.61	ng/ul	96
72) Anthracene	17.02	178	109072	11.83	ng/ul	98
75) Carbazole	17.30	167	53715	6.90	ng/ul	94
76) Di-n-butylphthalate	17.86	149	61690	5.65	ng/ul#	97
77) Fluoranthene	18.97	202	813246	79.34	ng/ul#	94
80) Pyrene	19.33	202	627566	56.29	ng/ul	97
81) Butylbenzylphthalate	20.24	149	20693	4.79	ng/ul#	78
83) Benzo(a)anthracene	21.09	228	369211	43.62	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.02	149	142086	27.30	ng/ul#	95
85) Chrysene	21.14	228	415088	54.59	ng/ul	95
88) Benzo(b)fluoranthene	22.63	252	548269	52.99	ng/ul#	97
89) Benzo(k)fluoranthene	22.63	252	548269	55.26	ng/ul#	93
91) Benzo(a)pyrene	23.19	252	365106	40.42	ng/ul#	99
92) Indeno(1,2,3-cd)pyrene	25.48	276	194278	17.38	ng/ul	97

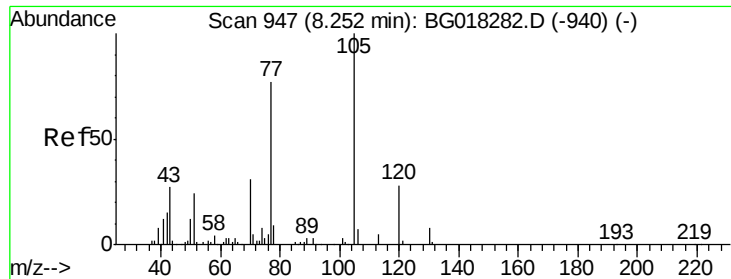
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080515\
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Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Dibenzo(a,h)anthracene	25.48	278	52115	5.31	ng/ul#	85
94) Benzo(g,h,i)perylene	26.16	276	152573	16.82	ng/ul	98

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



#14

Acetophenone

Concen: 1.18 ng/ul

RT: 8.26 min Scan# 949

Delta R.T. 0.01 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

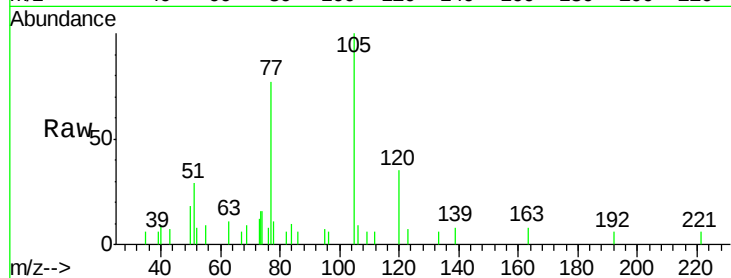
Tgt Ion:105 Resp: 6107

Ion Ratio Lower Upper

105 100

77 88.9 67.5 101.3

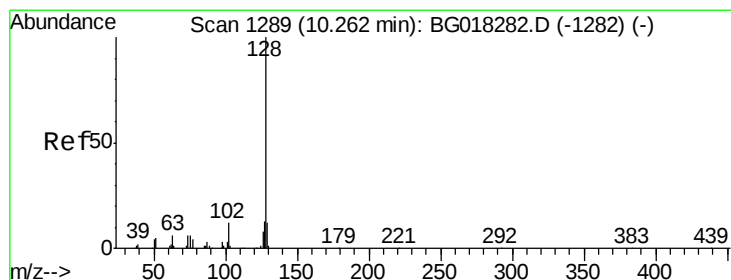
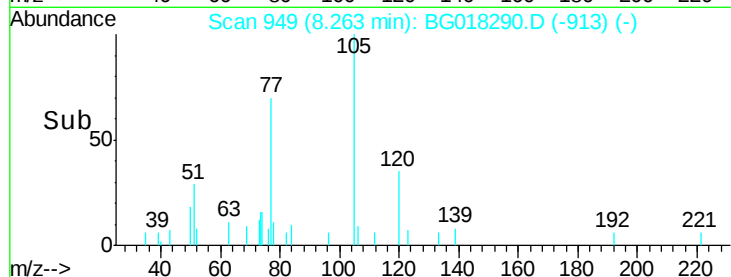
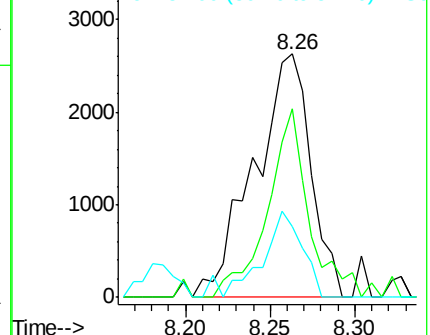
51 29.2 23.6 35.4



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#28

Naphthalene

Concen: 2.27 ng/ul

RT: 10.27 min Scan# 1291

Delta R.T. 0.01 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

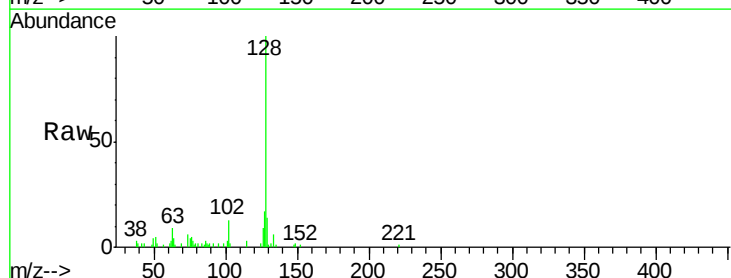
Tgt Ion:128 Resp: 22459

Ion Ratio Lower Upper

128 100

129 13.8 7.8 11.6#

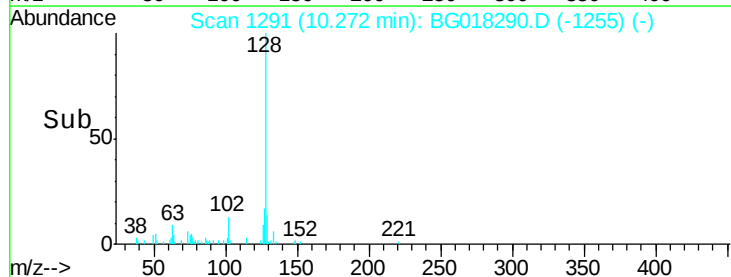
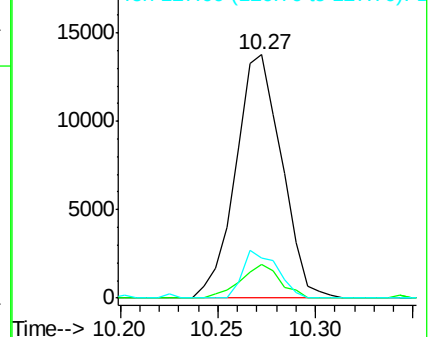
127 16.7 10.2 15.4#

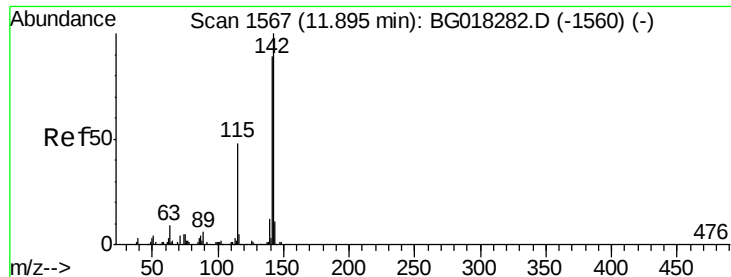


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

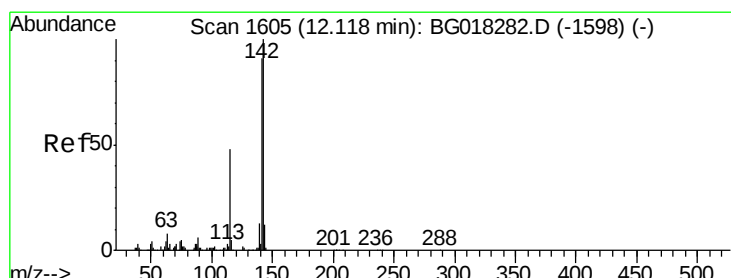
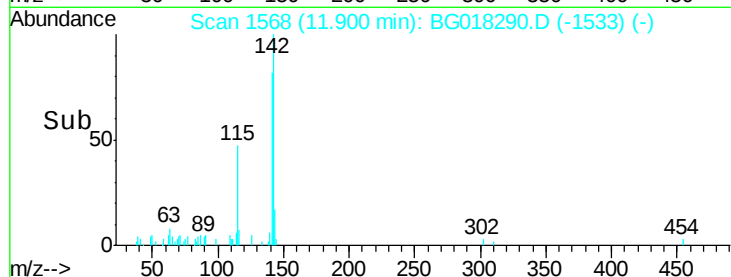
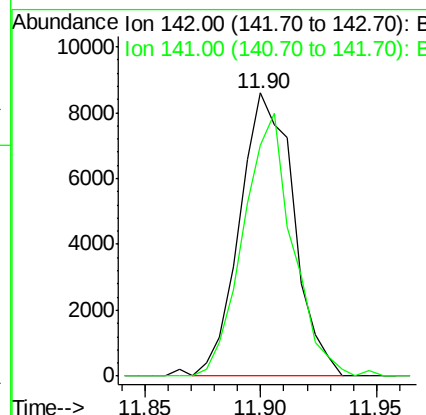
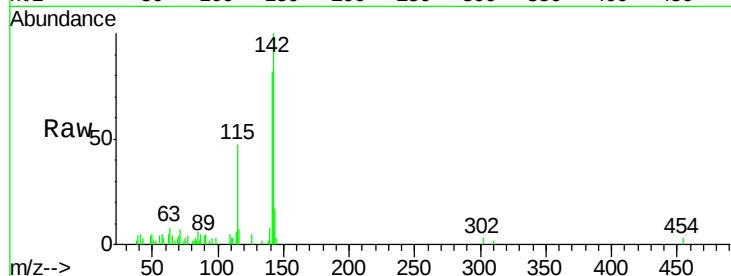




#34
2-Methylnaphthalene
Concen: 1.76 ng/ul
RT: 11.90 min Scan# 1568
Delta R.T. 0.00 min
Lab File: BG018290.D
Acq: 6 Aug 2015 2:41

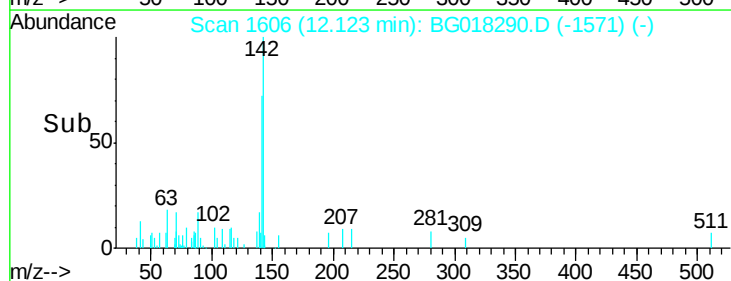
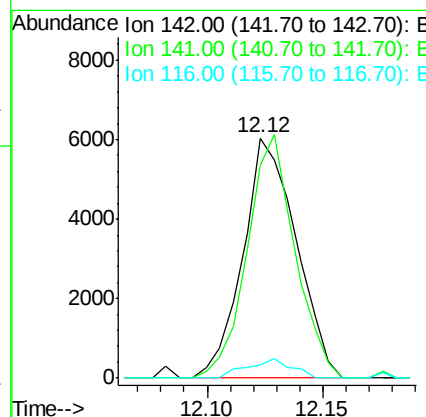
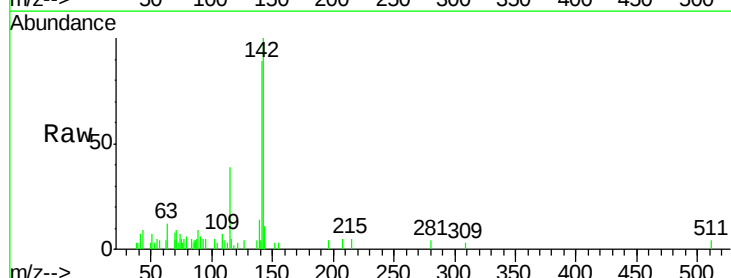
Instrument :
BNA_G
ClientSampleId :
C02F5RE

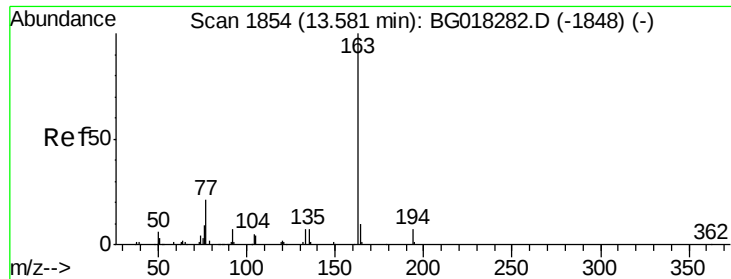
Tgt Ion:142 Resp: 13963
Ion Ratio Lower Upper
142 100
141 81.5 65.9 98.9



#35
1-Methylnaphthalene
Concen: 1.26 ng/ul
RT: 12.12 min Scan# 1606
Delta R.T. 0.00 min
Lab File: BG018290.D
Acq: 6 Aug 2015 2:41

Tgt Ion:142 Resp: 9682
Ion Ratio Lower Upper
142 100
141 88.7 69.0 103.4
116 5.3 4.2 6.4





#45

Dimethylphthalate

Concen: 9.59 ng/ul

RT: 13.59 min Scan# 1855

Delta R.T. 0.00 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

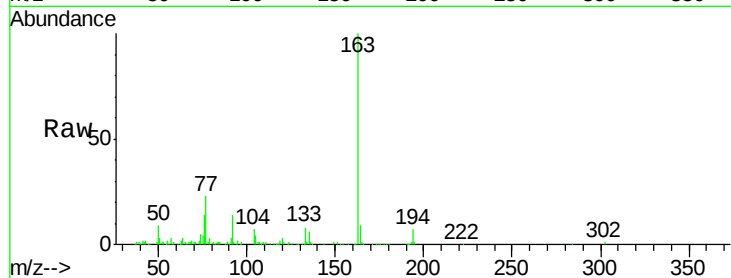
Tgt Ion:163 Resp: 88222

Ion Ratio Lower Upper

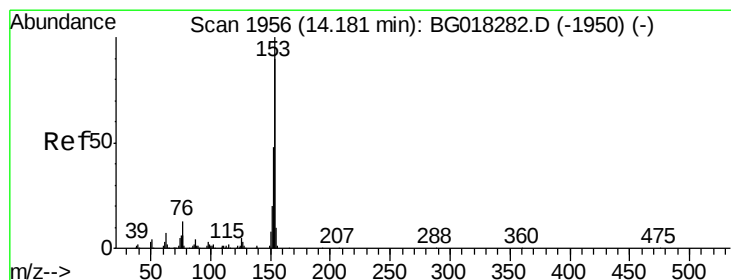
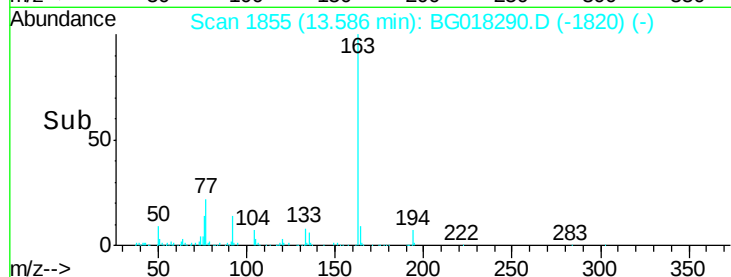
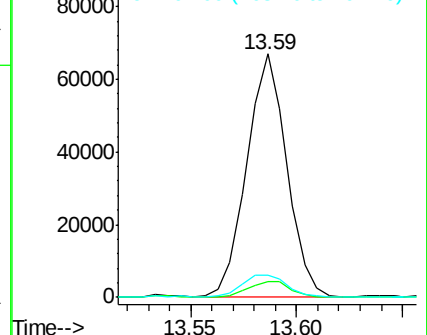
163 100

194 6.7 5.4 8.2

164 9.2 7.8 11.8



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



#50

Acenaphthene

Concen: 5.32 ng/ul

RT: 14.19 min Scan# 1957

Delta R.T. 0.00 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

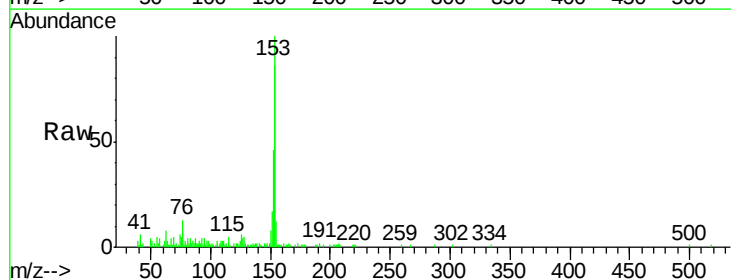
Tgt Ion:153 Resp: 37092

Ion Ratio Lower Upper

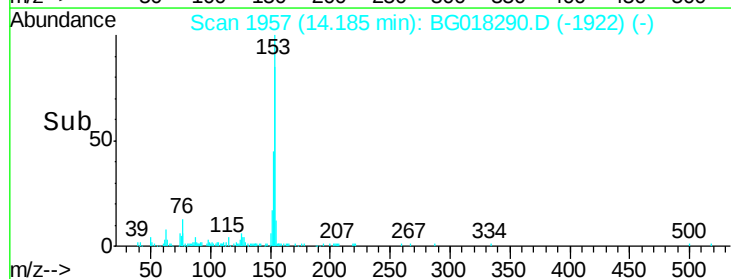
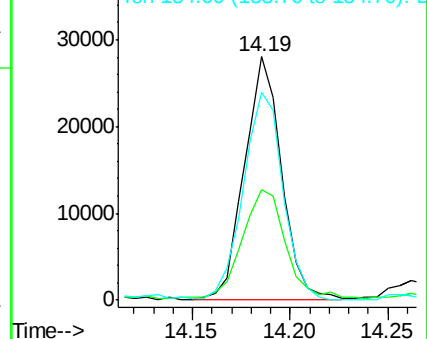
153 100

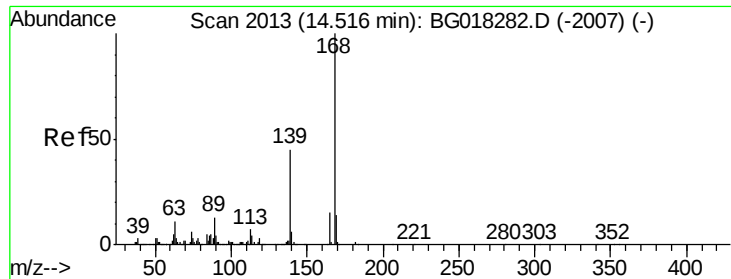
152 45.6 39.0 58.4

154 85.5 77.4 116.2



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





#54

Dibenzenofuran

Concen: 2.80 ng/ul

RT: 14.53 min Scan# 2015

Delta R.T. 0.01 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

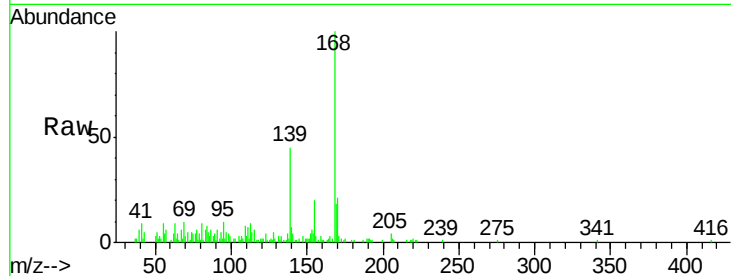
C02F5RE

Tgt Ion:168 Resp: 28722

Ion Ratio Lower Upper

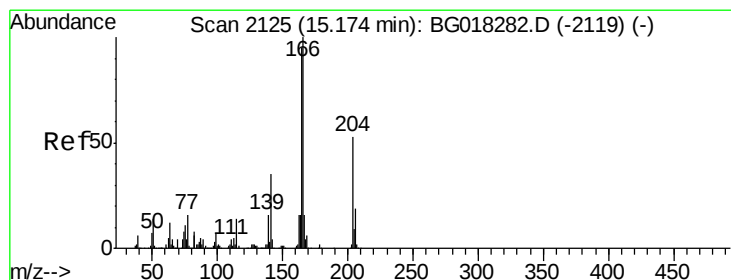
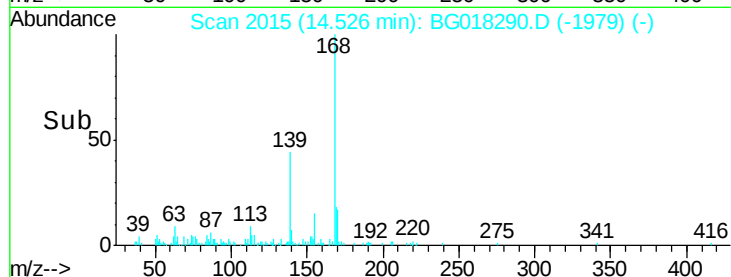
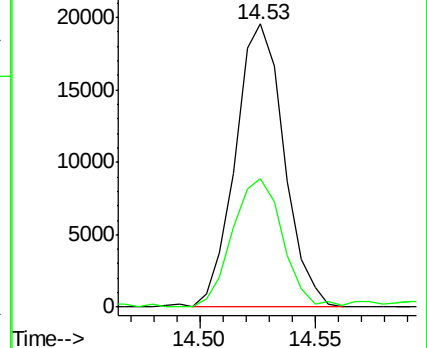
168 100

139 45.2 37.1 55.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 4.25 ng/ul

RT: 15.18 min Scan# 2126

Delta R.T. 0.00 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

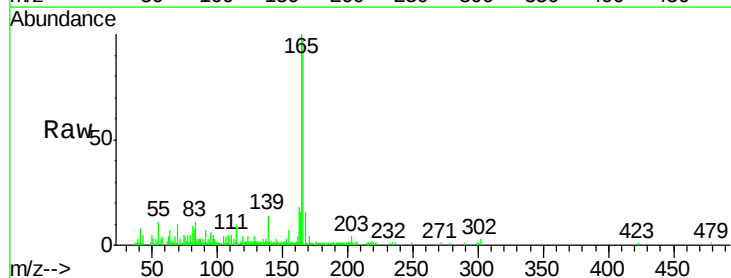
Tgt Ion:166 Resp: 38307

Ion Ratio Lower Upper

166 100

165 102.9 72.4 108.6

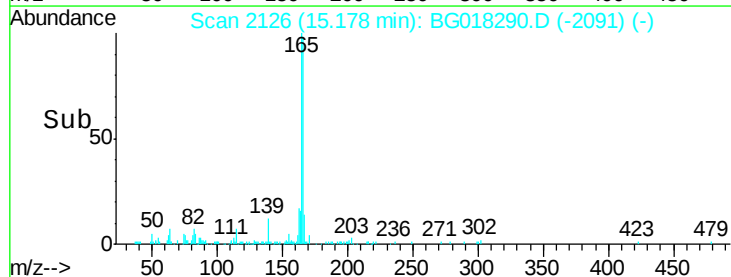
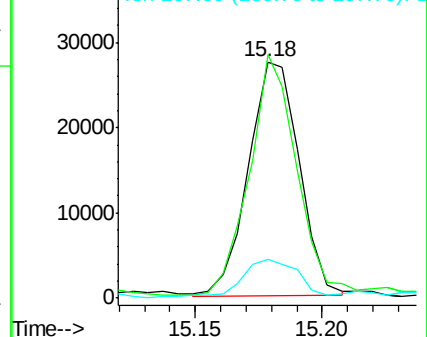
167 16.5 11.4 17.0

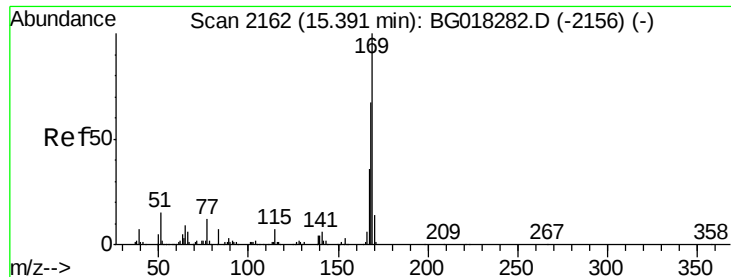


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#65

N-Nitrosodiphenylamine

Concen: 1.04 ng/ul

RT: 15.40 min Scan# 2163

Delta R.T. 0.00 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

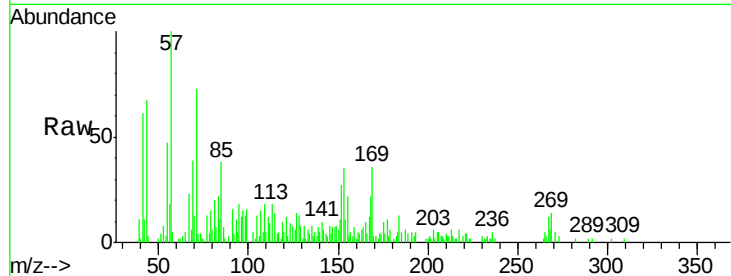
Instrument :

BNA_G

ClientSampleId :

C02F5RE

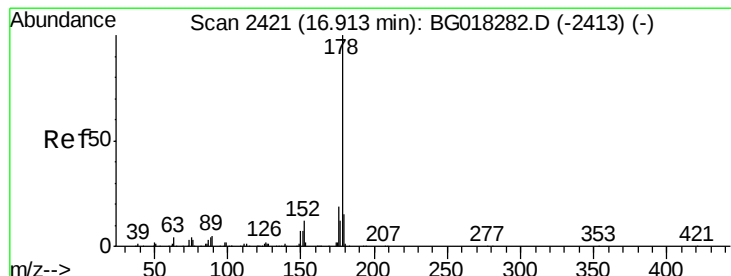
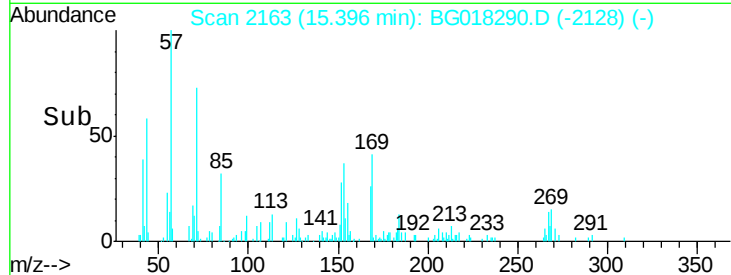
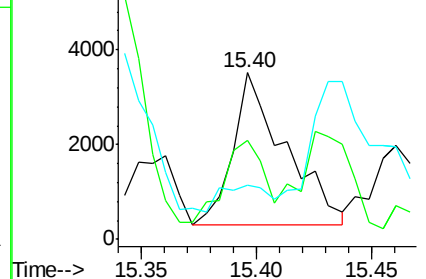
Tgt Ion:	169	Resp:	5022
Ion	Ratio	Lower	Upper
169	100		
168	59.2	50.2	75.2
167	32.2	27.3	40.9



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: 68.61 ng/ul

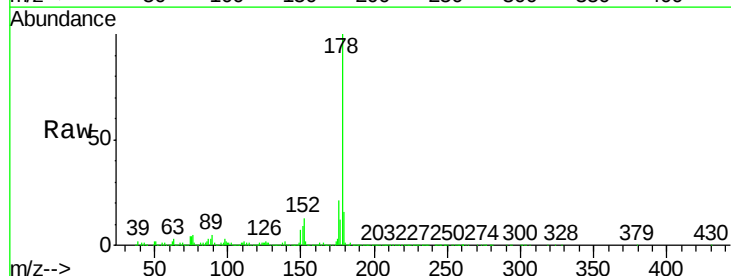
RT: 16.93 min Scan# 2424

Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

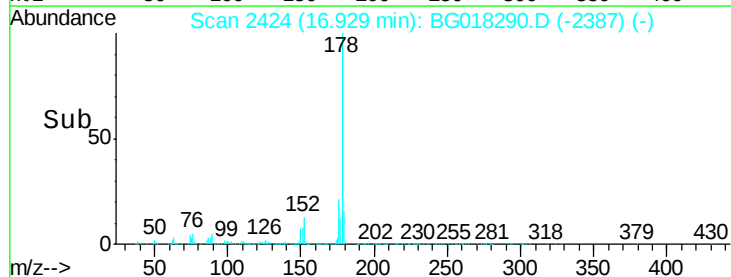
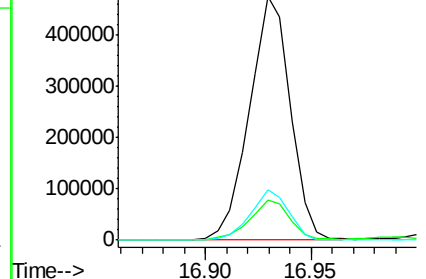
Tgt Ion:	178	Resp:	634033
Ion	Ratio	Lower	Upper
178	100		
179	16.3	12.2	18.4
176	20.7	14.5	21.7

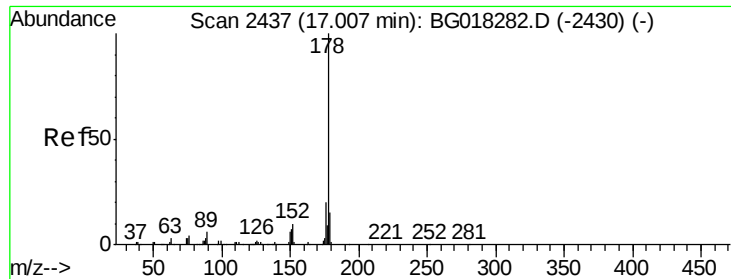


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 11.83 ng/ul

RT: 17.02 min Scan# 2439

Delta R.T. 0.01 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

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BNA_G

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C02F5RE

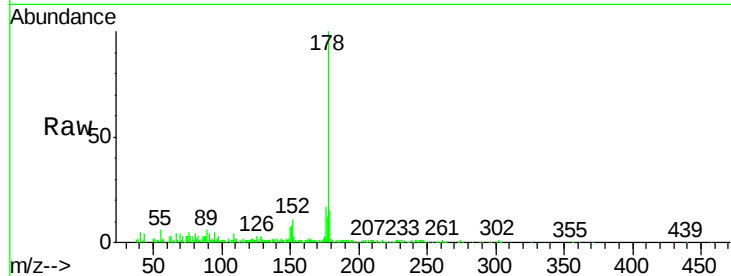
Tgt Ion:178 Resp: 109072

Ion Ratio Lower Upper

178 100

179 15.2 12.2 18.4

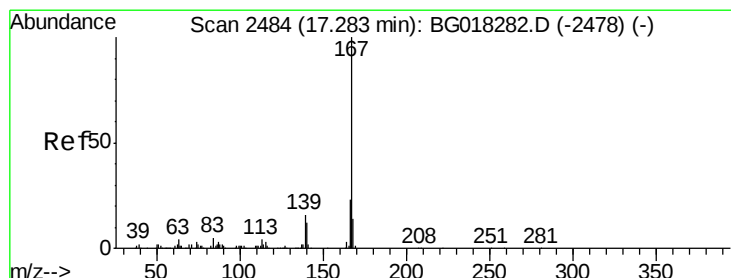
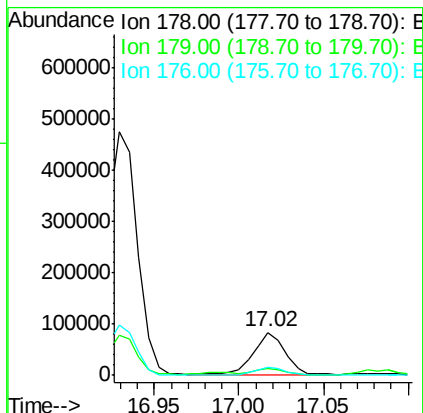
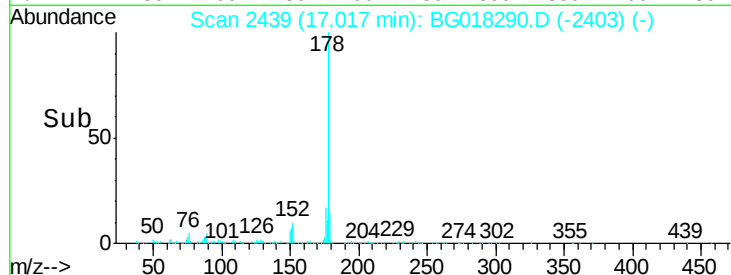
176 17.5 15.3 22.9



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



#75

Carbazole

Concen: 6.90 ng/ul

RT: 17.30 min Scan# 2487

Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

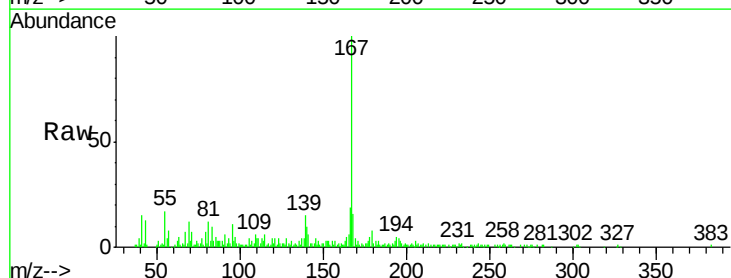
Tgt Ion:167 Resp: 53715

Ion Ratio Lower Upper

167 100

166 19.4 17.8 26.8

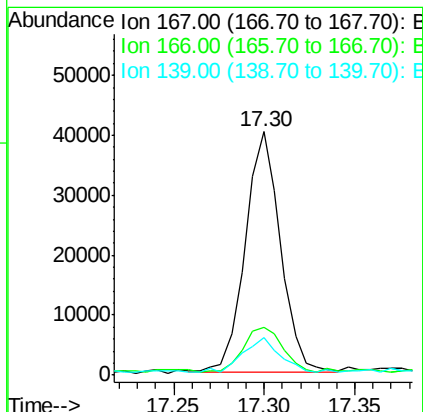
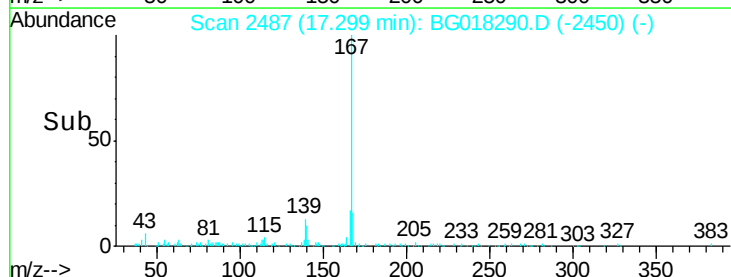
139 15.4 10.6 16.0

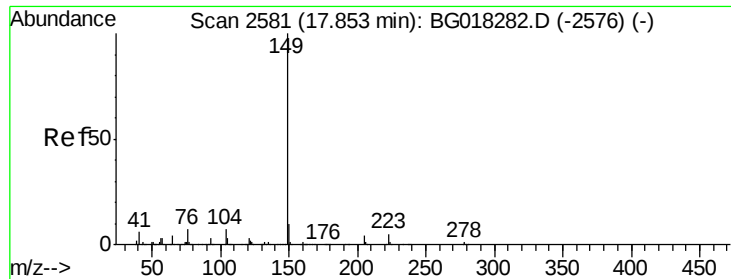


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#76

Di-n-butylphthalate

Concen: 5.65 ng/ul

RT: 17.86 min Scan# 2583

Delta R.T. 0.01 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

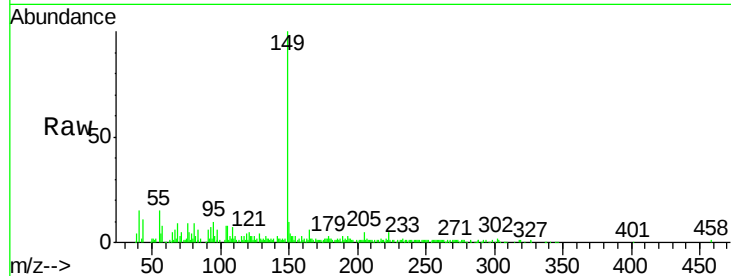
Tgt Ion:149 Resp: 61690

Ion Ratio Lower Upper

149 100

150 10.1 7.4 11.2

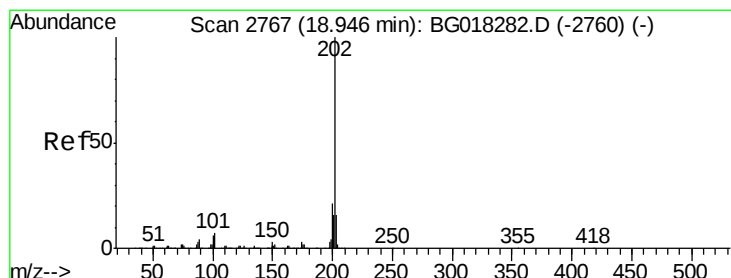
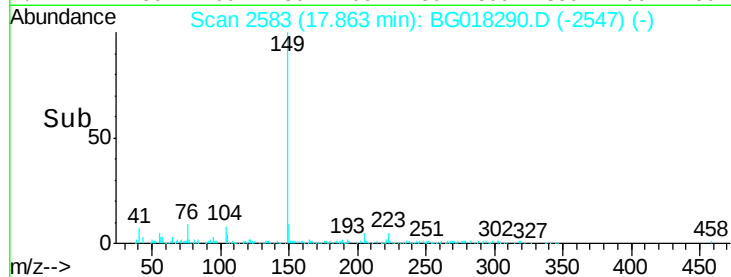
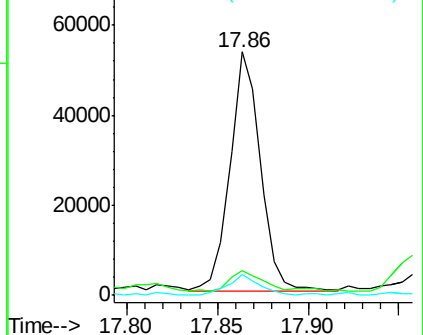
104 8.4 5.5 8.3#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#77

Fluoranthene

Concen: 79.34 ng/ul

RT: 18.97 min Scan# 2771

Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

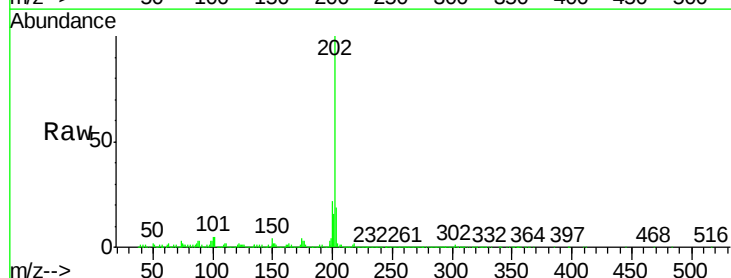
Tgt Ion:202 Resp: 813246

Ion Ratio Lower Upper

202 100

101 5.1 6.2 9.2#

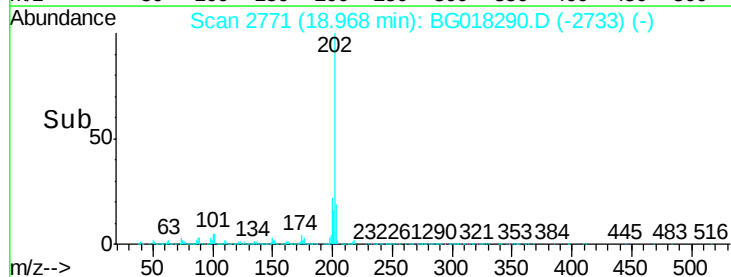
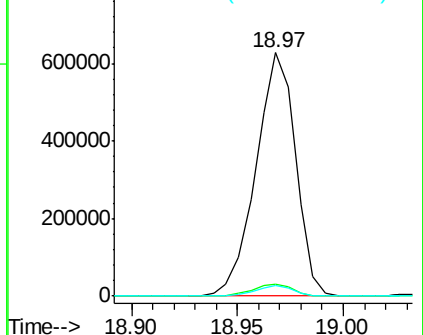
100 4.6 4.6 6.8

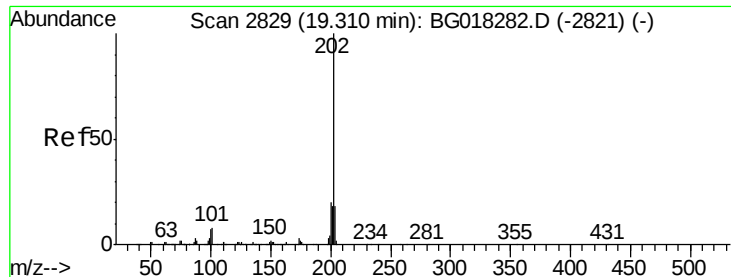


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

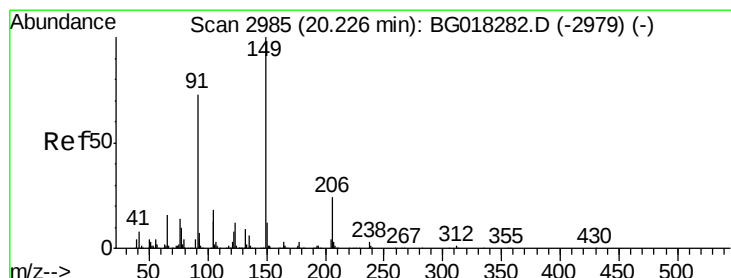
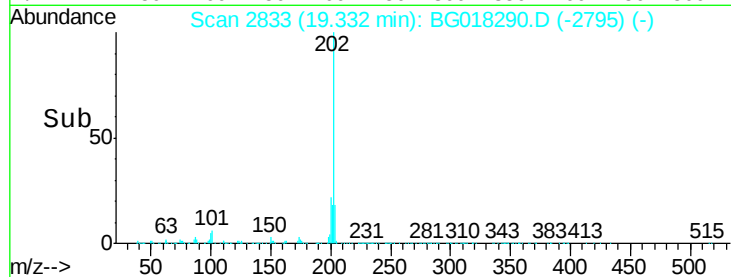
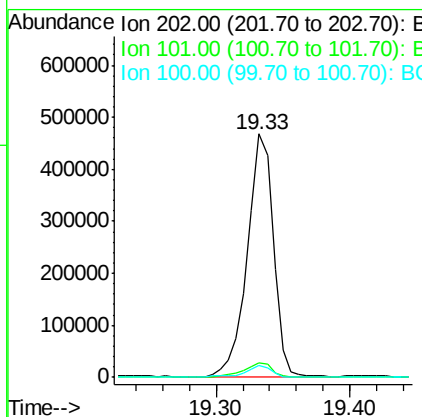
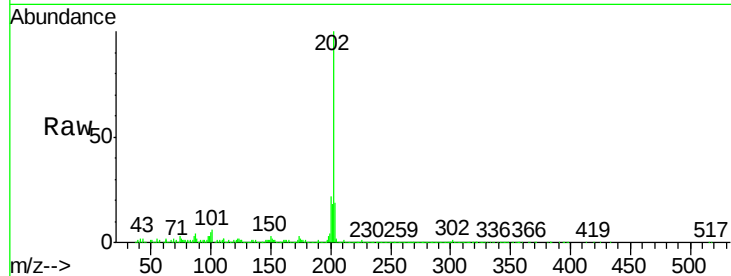




#80
 Pyrene
 Concen: 56.29 ng/ul
 RT: 19.33 min Scan# 2833
 Delta R.T. 0.02 min
 Lab File: BG018290.D
 Acq: 6 Aug 2015 2:41

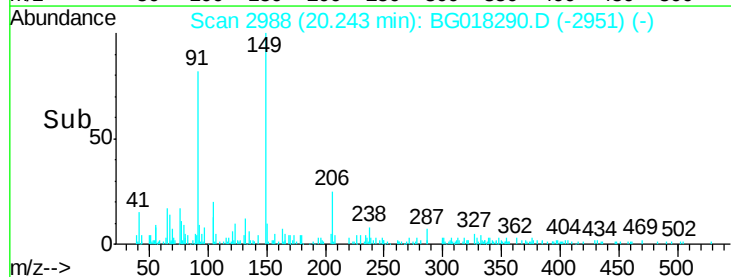
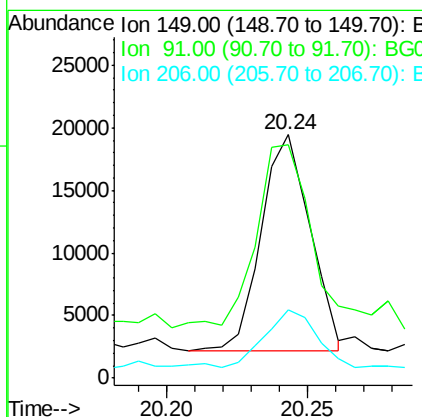
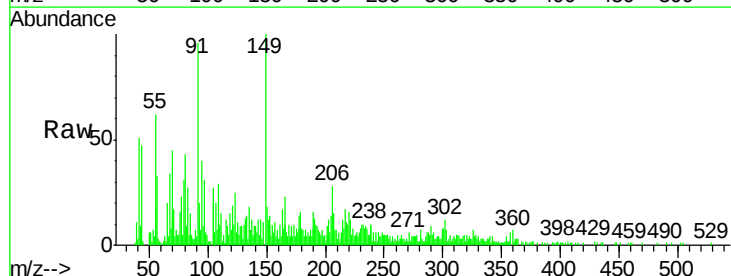
Instrument :
 BNA_G
 ClientSampleId :
 C02F5RE

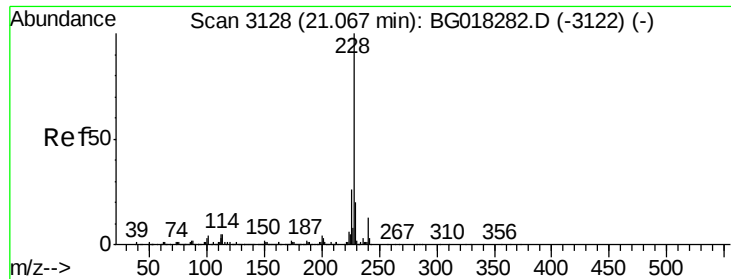
Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.2	6.2	9.2
100	5.1	4.6	7.0



#81
 Butylbenzylphthalate
 Concen: 4.79 ng/ul
 RT: 20.24 min Scan# 2988
 Delta R.T. 0.02 min
 Lab File: BG018290.D
 Acq: 6 Aug 2015 2:41

Tgt Ion	Ratio	Lower	Upper
149	100		
91	96.1	58.2	87.2#
206	27.9	19.9	29.9





#83

Benzo(a)anthracene

Concen: 43.62 ng/ul

RT: 21.09 min Scan# 3132

Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

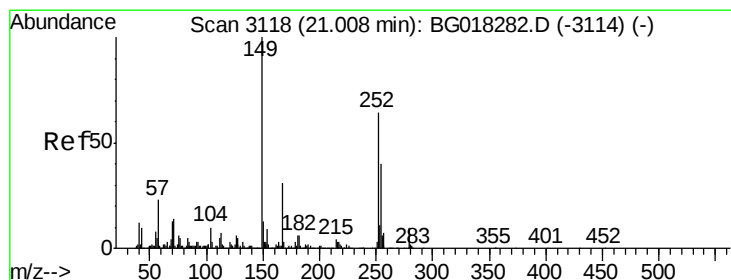
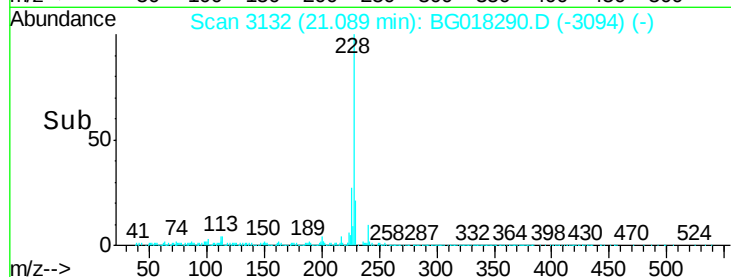
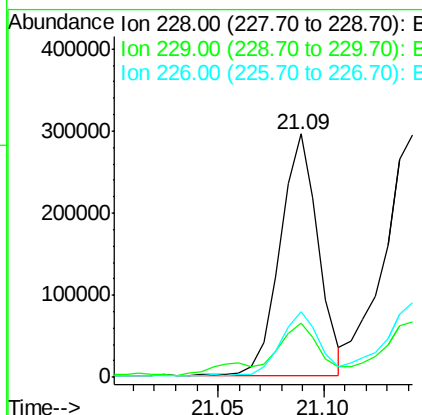
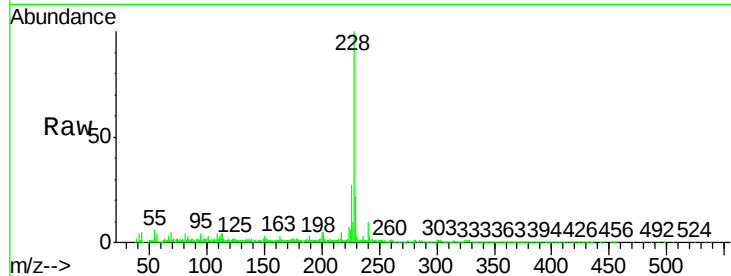
Instrument :

BNA_G

ClientSampleId :

C02F5RE

Tgt Ion:	228	Resp:	369211
Ion	Ratio	Lower	Upper
228	100		
229	22.1	16.3	24.5
226	26.8	21.2	31.8



#84

Bis(2-ethylhexyl)phthalate

Concen: 27.30 ng/ul

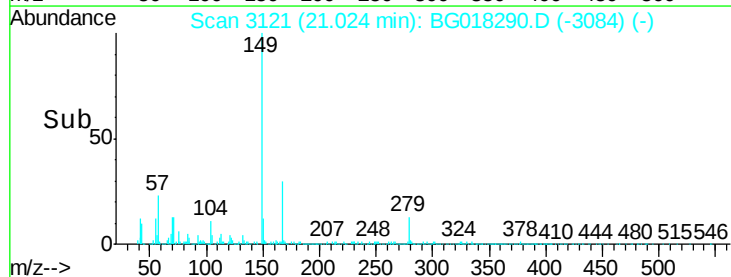
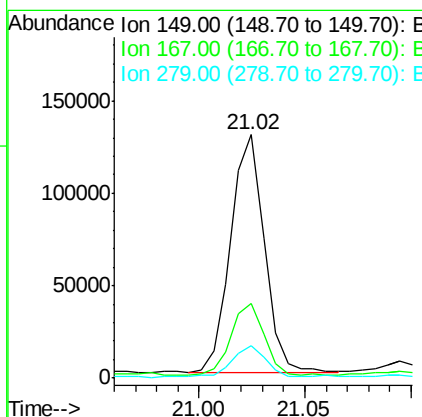
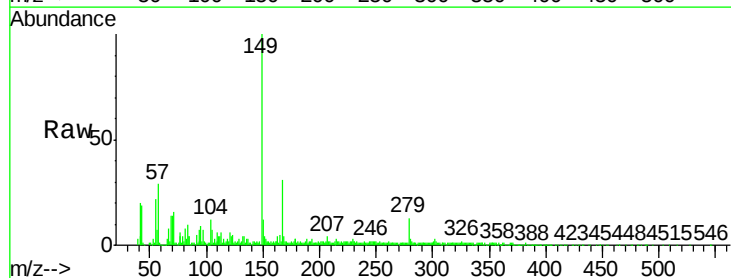
RT: 21.02 min Scan# 3121

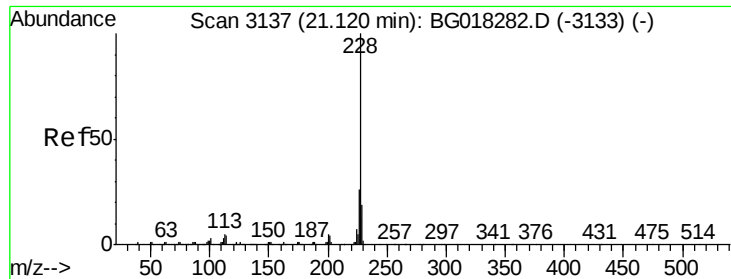
Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Tgt Ion:	149	Resp:	142086
Ion	Ratio	Lower	Upper
149	100		
167	30.8	26.4	39.6
279	13.3	8.6	12.8#





#85

Chrysene

Concen: 54.59 ng/ul

RT: 21.14 min Scan# 3141

Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

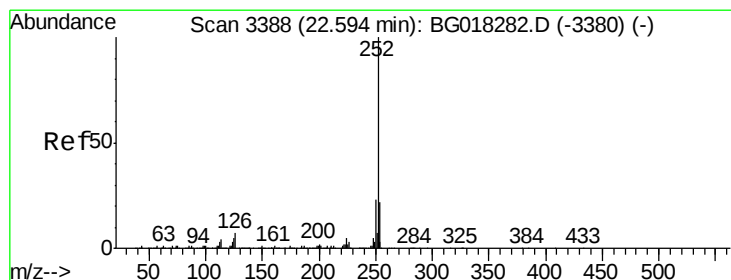
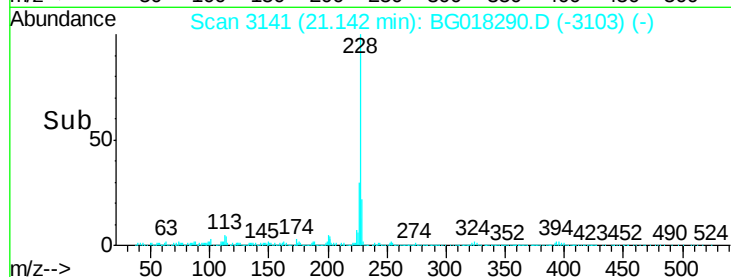
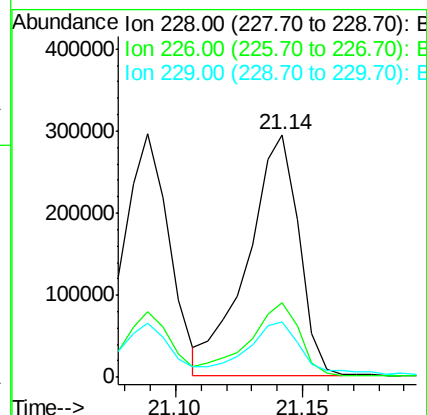
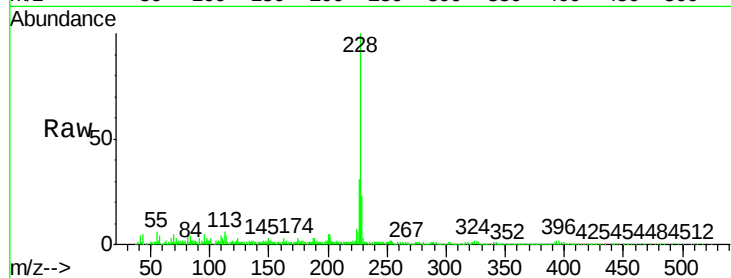
Tgt Ion:228 Resp: 415088

Ion Ratio Lower Upper

228 100

226 30.7 23.0 34.6

229 22.8 15.9 23.9



#88

Benzo(b)fluoranthene

Concen: 52.99 ng/ul

RT: 22.63 min Scan# 3395

Delta R.T. 0.04 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

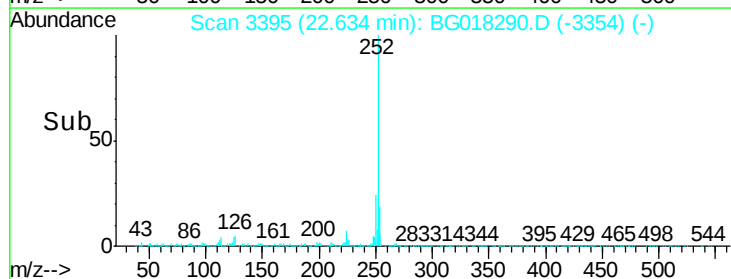
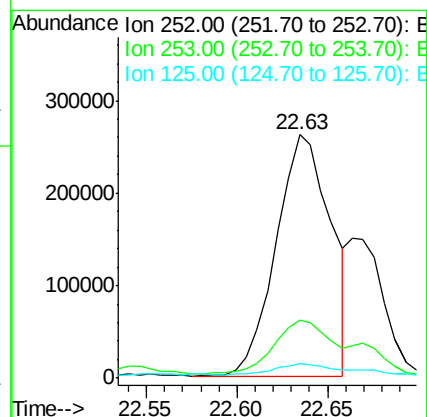
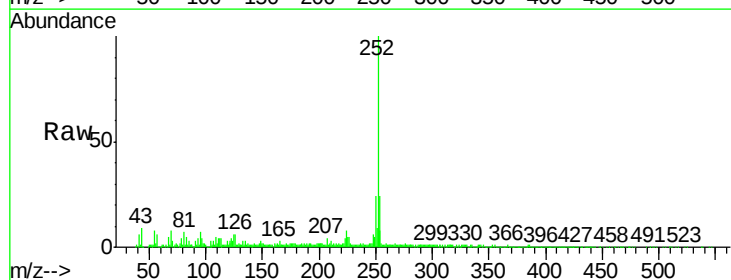
Tgt Ion:252 Resp: 548269

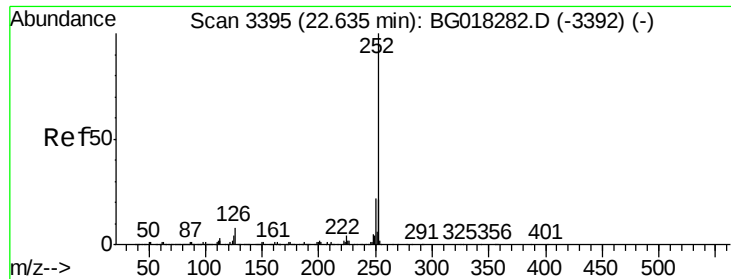
Ion Ratio Lower Upper

252 100

253 24.1 18.1 27.1

125 5.8 3.1 4.7#





#89

Benzo(k)fluoranthene

Concen: 55.26 ng/ul

RT: 22.63 min Scan# 3395

Delta R.T. -0.00 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

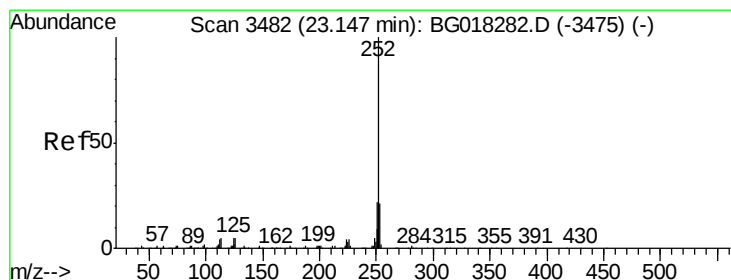
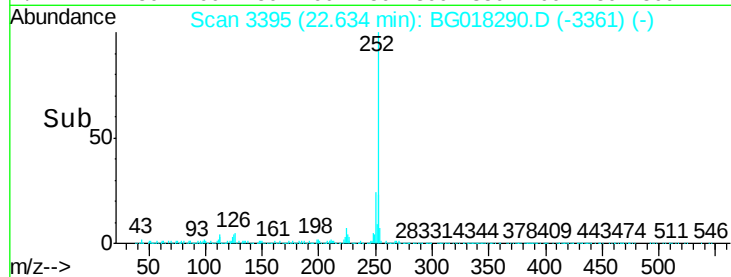
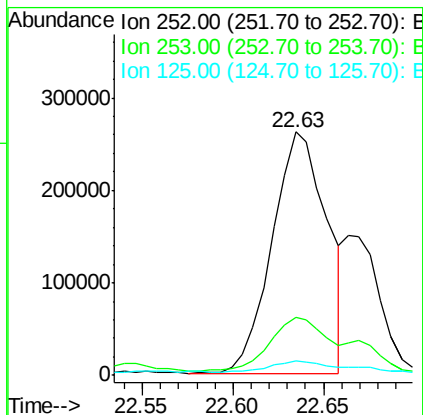
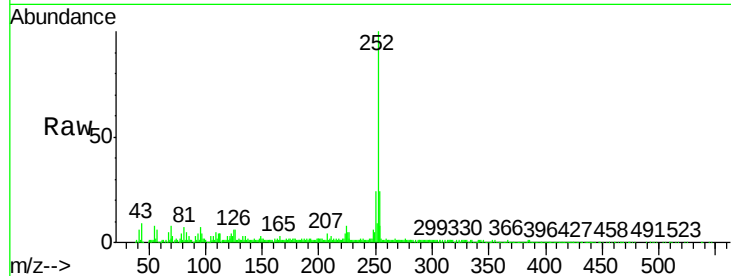
Instrument :

BNA_G

ClientSampleId :

C02F5RE

Tgt Ion:	252	Resp:	548269
Ion	Ratio	Lower	Upper
252	100		
253	24.1	16.4	24.6
125	5.8	3.4	5.2#



#91

Benzo(a)pyrene

Concen: 40.42 ng/ul

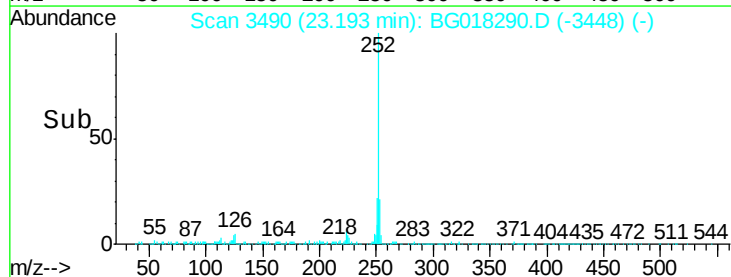
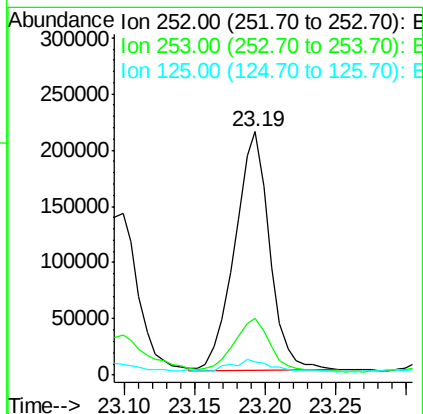
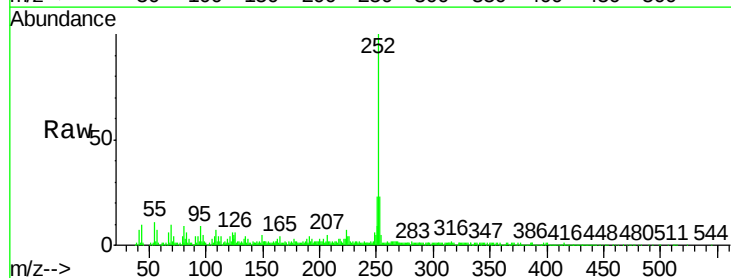
RT: 23.19 min Scan# 3490

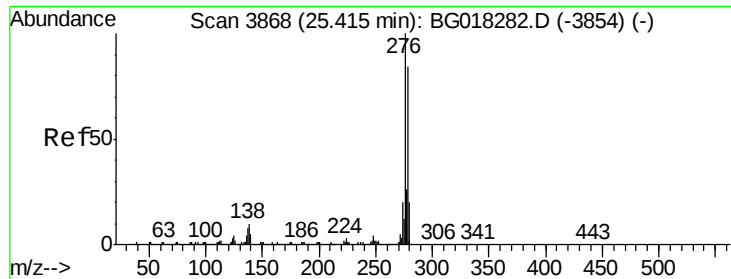
Delta R.T. 0.05 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Tgt Ion:	252	Resp:	365106
Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.9	28.3
125	5.4	3.2	4.8#





#92

Indeno(1,2,3-cd)pyrene

Concen: 17.38 ng/ul

RT: 25.48 min Scan# 3880

Delta R.T. 0.07 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

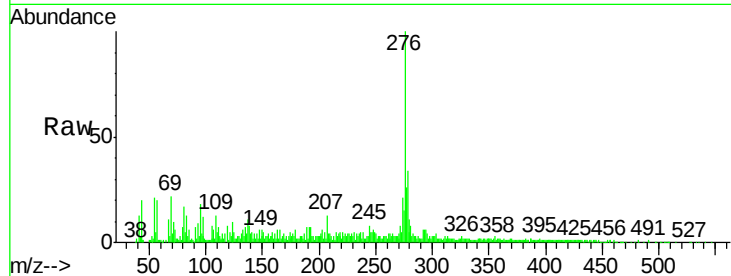
Tgt Ion:276 Resp: 194278

Ion Ratio Lower Upper

276 100

138 8.3 8.2 12.4

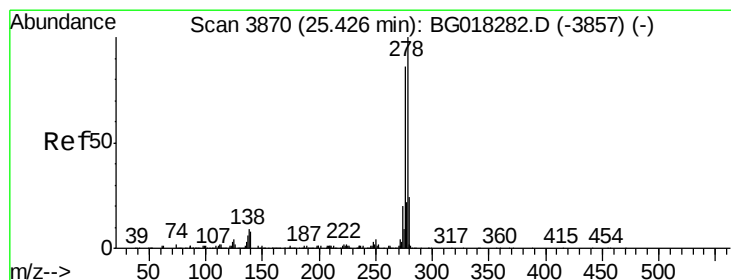
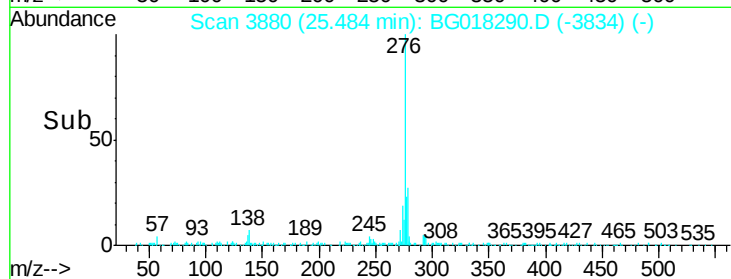
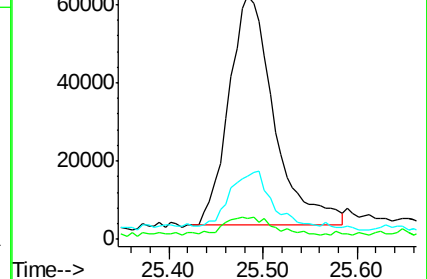
277 26.0 20.1 30.1



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



#93

Dibenzo(a,h)anthracene

Concen: 5.31 ng/ul

RT: 25.48 min Scan# 3880

Delta R.T. 0.06 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

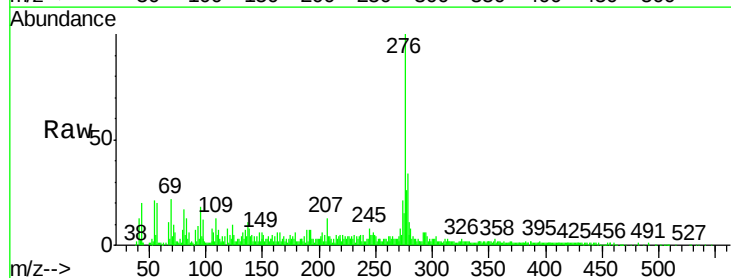
Tgt Ion:278 Resp: 52115

Ion Ratio Lower Upper

278 100

139 13.0 5.8 8.8#

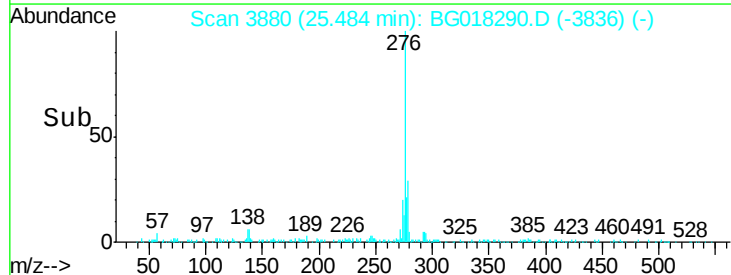
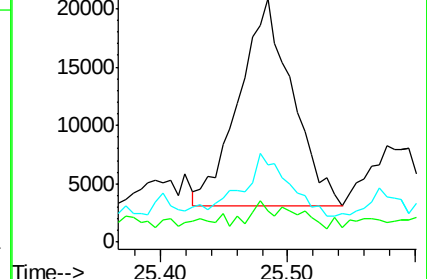
279 31.9 19.8 29.6#

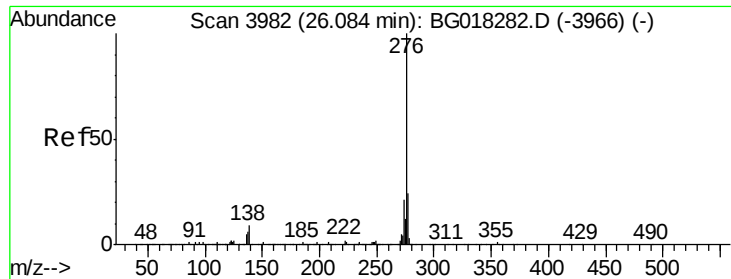


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 16.82 ng/ul

RT: 26.16 min Scan# 3995

Delta R.T. 0.08 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

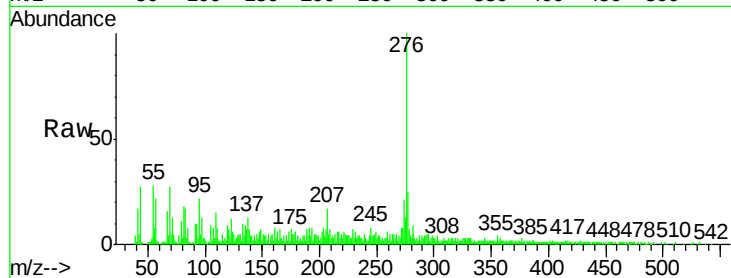
Tgt Ion:276 Resp: 152573

Ion Ratio Lower Upper

276 100

138 7.1 6.0 9.0

277 25.0 21.1 31.7



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

