

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072715\
 Data File : BG018155.D
 Acq On : 28 Jul 2015 20:22
 Operator : TP/UM
 Sample : G3030-03
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01M0

Quant Time: Jul 29 02:02:47 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jul 29 01:59:28 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	43431	20.00	ng/ul	0.00
18) Naphthalene-d8	10.30	136	193810	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.19	164	118418	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.94	188	237825	20.00	ng/ul	0.00
78) Chrysene-d12	21.15	240	269474	20.00	ng/ul	0.00
86) Perylene-d12	23.36	264	282165	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.02	96	2794	4.02	ng/uL	0.01
5) Phenol-d5	6.70	99	73572	21.96	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.85	67	35419	21.42	ng/ul	0.00
9) 2-Chlorophenol-d4	7.05	132	71650	24.12	ng/ul	0.00
13) 4-Methylphenol-d8	8.23	113	64769	21.80	ng/ul	0.00
19) Nitrobenzene-d5	8.66	128	36732	23.98	ng/ul	0.00
22) 2-Nitrophenol-d4	9.39	143	42093	26.02	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.93	165	72347	25.69	ng/ul	0.00
29) 4-Chloroaniline-d4	10.44	131	62630	19.12	ng/ul	0.00
44) Dimethylphthalate-d6	13.60	166	210951	25.37	ng/ul	0.00
47) Acenaphthylene-d8	13.87	160	255758	25.04	ng/ul	0.00
52) 4-Nitrophenol-d4	14.41	143	31392	17.95	ng/ul	0.00
58) Fluorene-d10	15.18	176	180493	23.49	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.32	200	14602	9.60	ng/ul	0.00
71) Anthracene-d10	17.04	188	250599	24.33	ng/ul	0.00
79) Pyrene-d10	19.36	212	264680	21.44	ng/ul	0.01
90) Benzo(a)pyrene-d12	23.22	264	279462	20.75	ng/ul	0.02

Target Compounds

						Qvalue
28) Naphthalene	10.34	128	44429	4.89	ng/ul	98
30) 4-Chloroaniline	10.34	127	5909	1.75	ng/ul#	1
34) 2-Methylnaphthalene	11.97	142	27113	3.95	ng/ul	94
35) 1-Methylnaphthalene	12.19	142	23615	3.53	ng/ul	98
41) 1,1'-Biphenyl	13.01	154	9917	1.22	ng/ul#	97
45) Dimethylphthalate	13.64	163	107021	12.79	ng/ul	98
50) Acenaphthene	14.25	153	163727	23.31	ng/ul	99
54) Dibenzofuran	14.58	168	92465	9.26	ng/ul	96
59) Fluorene	15.24	166	146253	17.02	ng/ul	98
70) Phenanthrene	16.99	178	1660415	138.95	ng/ul	93
72) Anthracene	17.08	178	471655	38.87	ng/ul	99
75) Carbazole	17.35	167	189044	17.98	ng/ul	99
76) Di-n-butylphthalate	17.93	149	197281	14.26	ng/ul	99
77) Fluoranthene	19.03	202	2219760	174.38	ng/ul	96
80) Pyrene	19.39	202	1997671	129.45	ng/ul	97
81) Butylbenzylphthalate	20.30	149	29259	4.64	ng/ul	95
83) Benzo(a)anthracene	21.14	228	1291541	90.62	ng/ul	91
84) Bis(2-ethylhexyl)phthalate	21.15	149	11538	1.28	ng/ul	97
85) Chrysene	21.19	228	1285540	95.79	ng/ul#	90
88) Benzo(b)fluoranthene	22.70	252	1651806	106.85	ng/ul	96
89) Benzo(k)fluoranthene	22.70	252	1651806	110.40	ng/ul	95
91) Benzo(a)pyrene	23.27	252	1186674	79.26	ng/ul	95
92) Indeno(1,2,3-cd)pyrene	25.58	276	779146	45.11	ng/ul#	92

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Quant Title : SVOA CALIBRATION
QLast Update : Wed Jul 29 01:59:28 2015
Response via : Initial Calibration

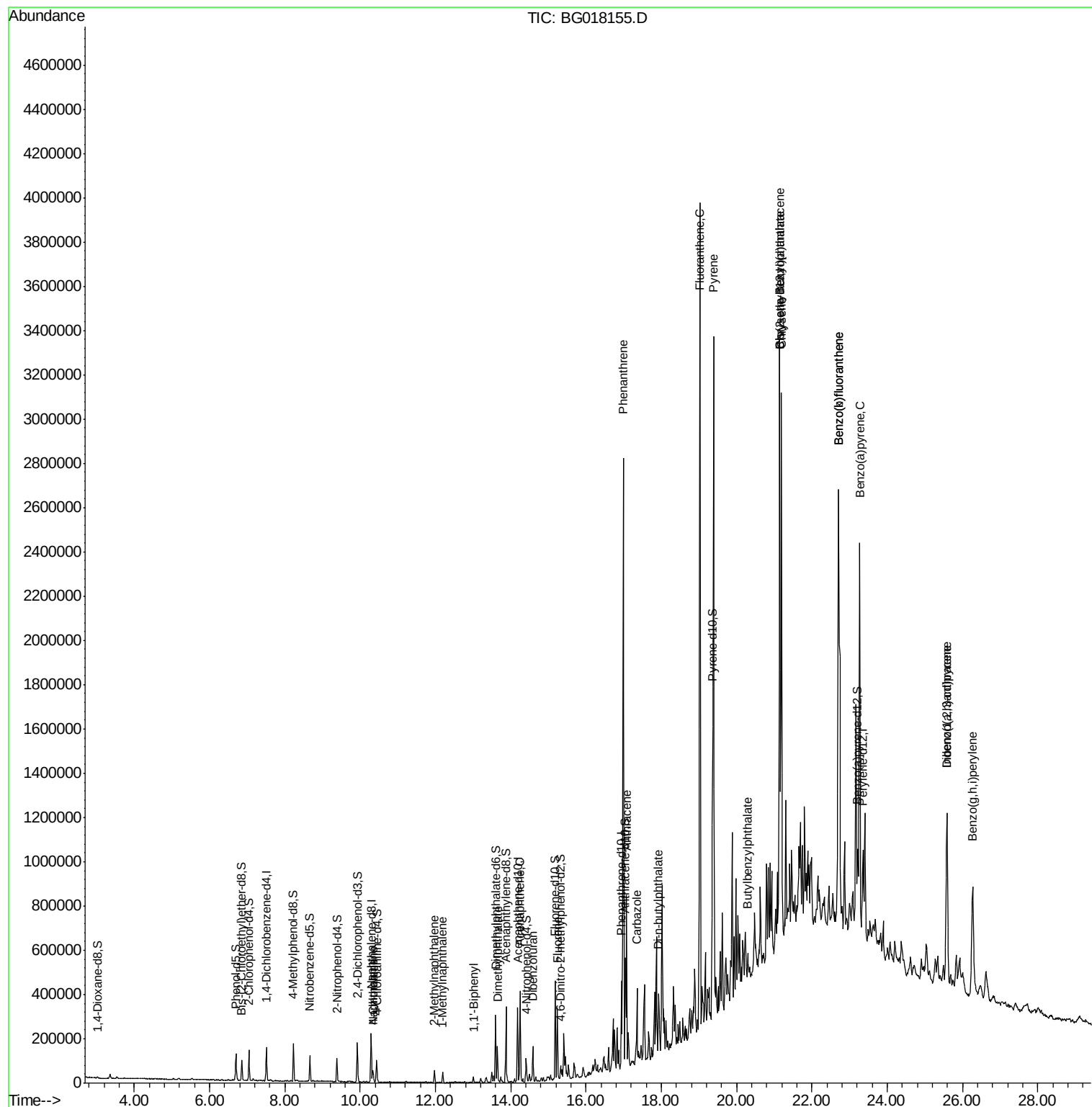
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Dibenzo(a,h)anthracene	25.58	278	227793	15.45	ng/ul#	77
94) Benzo(g,h,i)perylene	26.27	276	664249	46.54	ng/ul	97

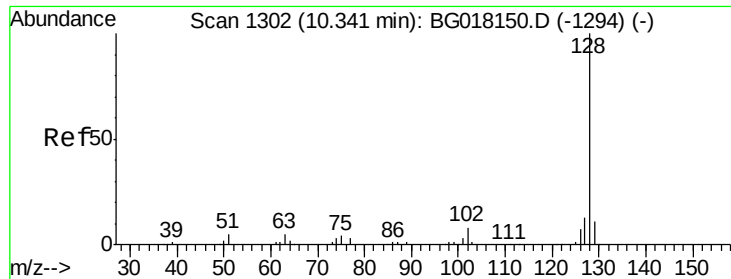
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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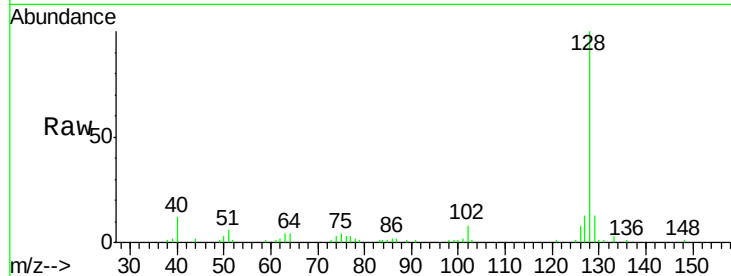




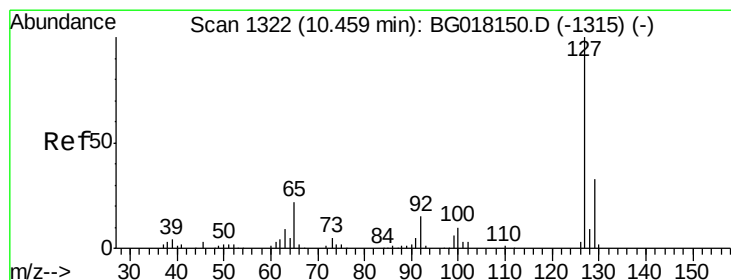
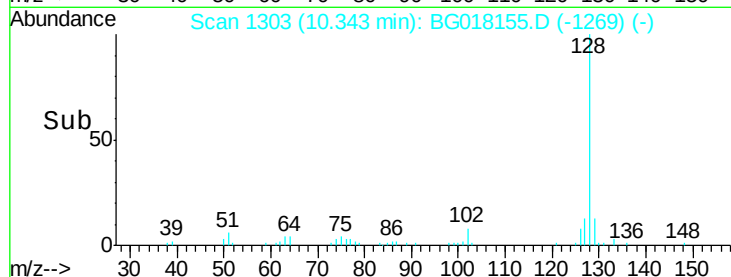
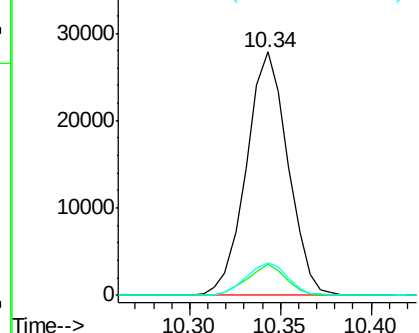
#28
Naphthalene
Concen: 4.89 ng/ul
RT: 10.34 min Scan# 1303
Delta R.T. 0.00 min
Lab File: BG018155.D
Acq: 28 Jul 2015 20:22

Instrument :
BNA_G
ClientSampleId :
C01M0

Tgt Ion:128 Resp: 44429
Ion Ratio Lower Upper
128 100
129 12.7 9.5 14.3
127 13.4 10.1 15.1

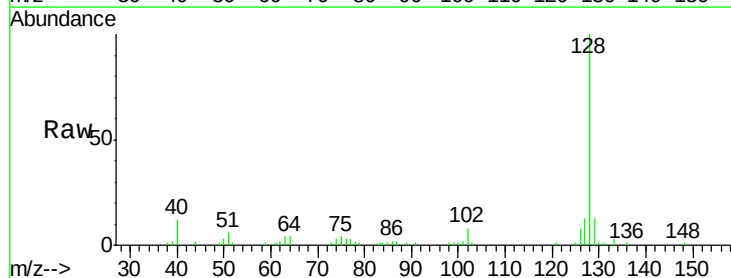


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

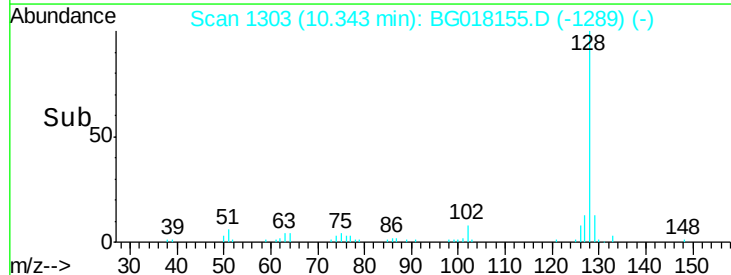
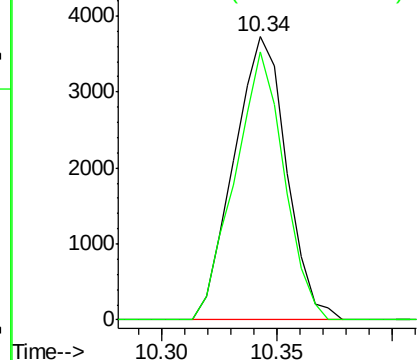


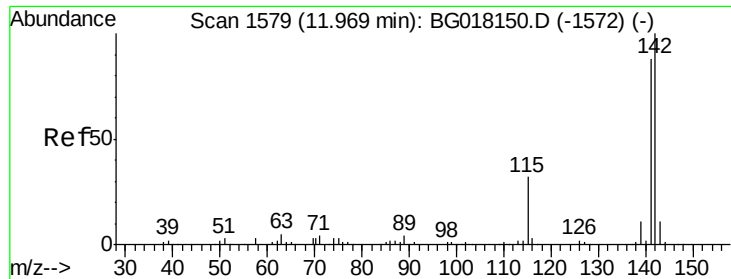
#30
4-Chloroaniline
Concen: 1.75 ng/ul
RT: 10.34 min Scan# 1303
Delta R.T. -0.12 min
Lab File: BG018155.D
Acq: 28 Jul 2015 20:22

Tgt Ion:127 Resp: 5909
Ion Ratio Lower Upper
127 100
129 94.7 24.7 37.1#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E

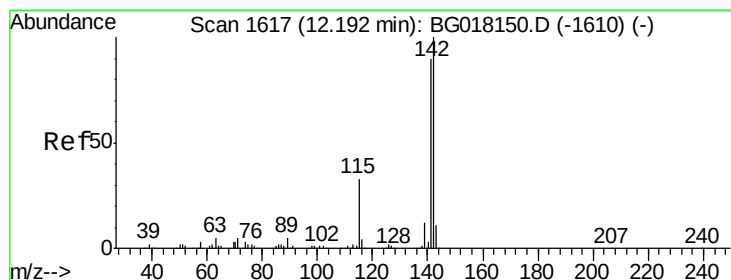
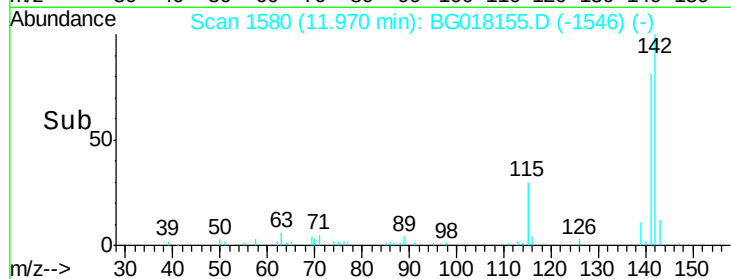
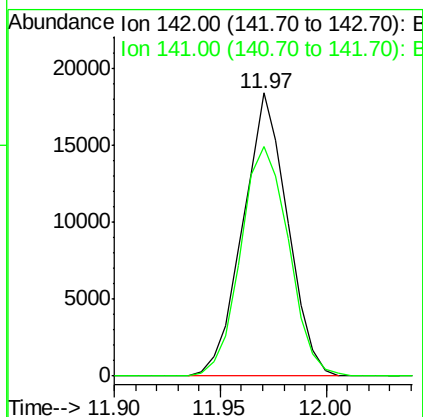
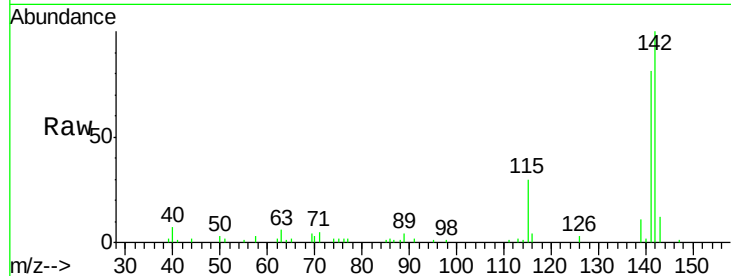




#34
 2-Methylnaphthalene
 Concen: 3.95 ng/ul
 RT: 11.97 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: BG018155.D
 Acq: 28 Jul 2015 20:22

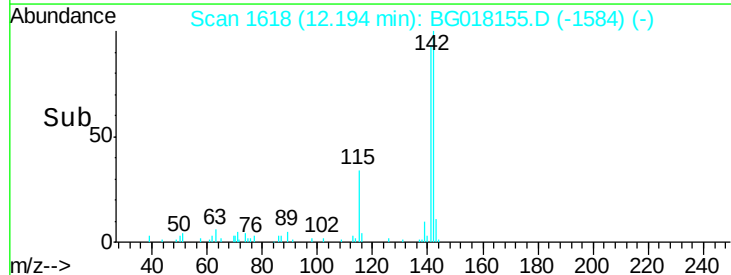
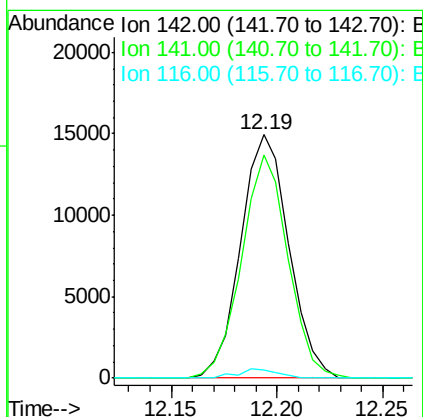
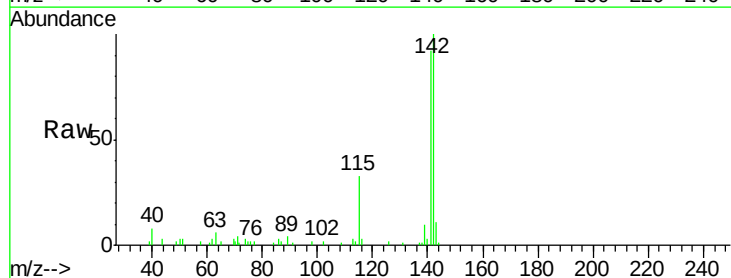
Instrument :
 BNA_G
 ClientSampleId :
 C01M0

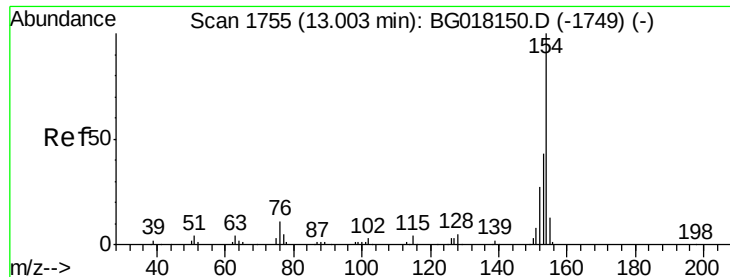
Tgt Ion:142 Resp: 27113
 Ion Ratio Lower Upper
 142 100
 141 81.3 69.4 104.0



#35
 1-Methylnaphthalene
 Concen: 3.53 ng/ul
 RT: 12.19 min Scan# 1618
 Delta R.T. 0.00 min
 Lab File: BG018155.D
 Acq: 28 Jul 2015 20:22

Tgt Ion:142 Resp: 23615
 Ion Ratio Lower Upper
 142 100
 141 91.8 71.8 107.6
 116 3.5 3.2 4.8

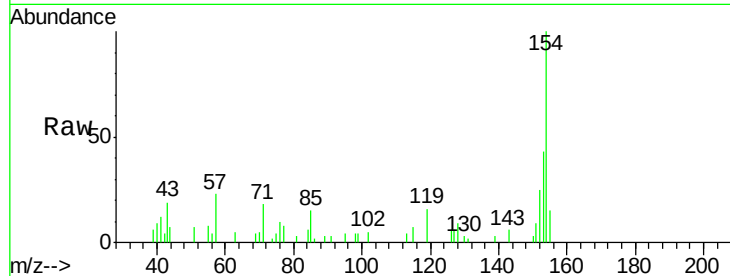




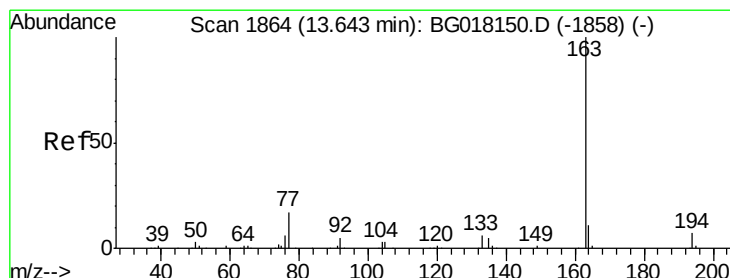
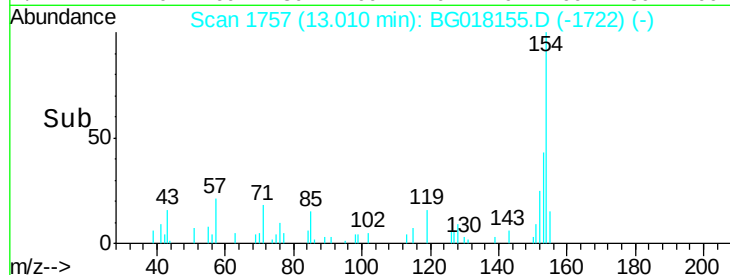
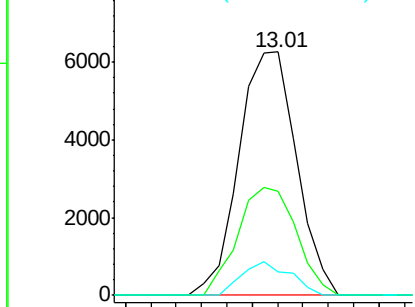
#41
1,1'-Biphenyl
Concen: 1.22 ng/ul
RT: 13.01 min Scan# 1757
Delta R.T. 0.01 min
Lab File: BG018155.D
Acq: 28 Jul 2015 20:22

Instrument :
BNA_G
ClientSampleId :
C01M0

Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.9	33.1	49.7
76	9.5	9.7	14.5

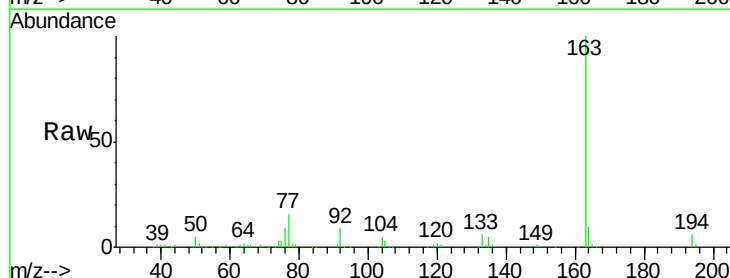


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BGC

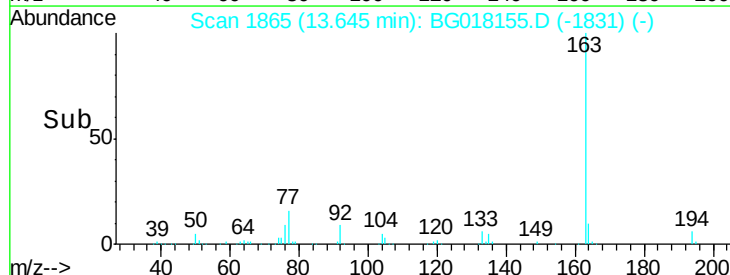
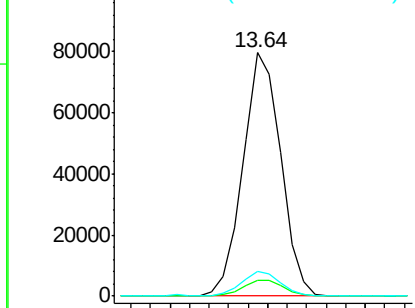


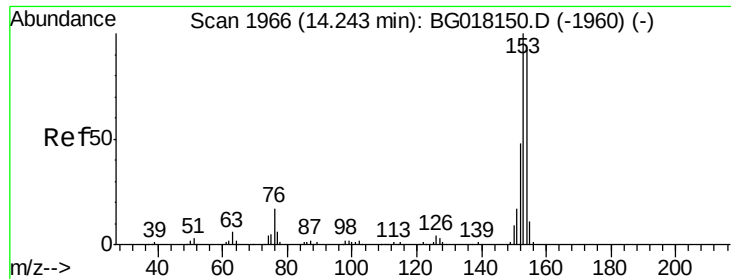
#45
Dimethylphthalate
Concen: 12.79 ng/ul
RT: 13.64 min Scan# 1865
Delta R.T. 0.00 min
Lab File: BG018155.D
Acq: 28 Jul 2015 20:22

Tgt Ion	Ratio	Lower	Upper
163	100		
194	6.3	5.4	8.2
164	9.9	8.7	13.1



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





#50

Acenaphthene

Concen: 23.31 ng/ul

RT: 14.25 min Scan# 1968

Delta R.T. 0.01 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

Instrument :

BNA_G

ClientSampleId :

C01M0

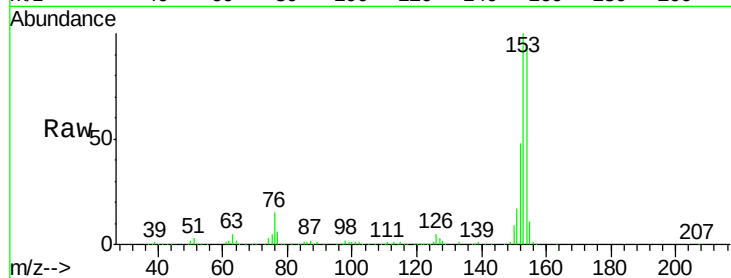
Tgt Ion:153 Resp: 163727

Ion Ratio Lower Upper

153 100

152 47.6 38.9 58.3

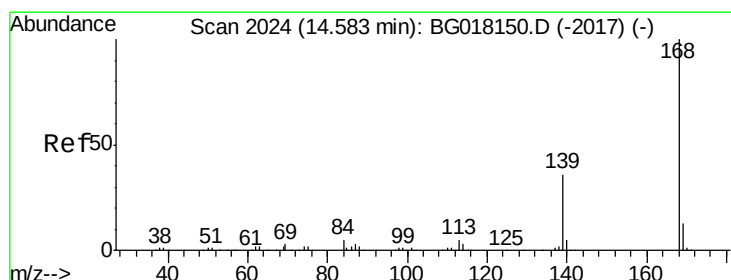
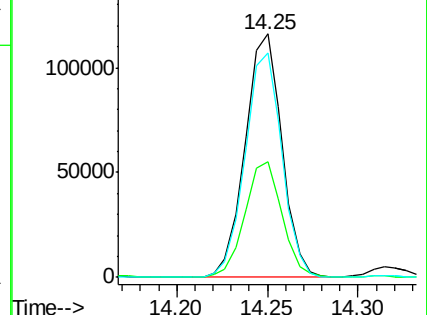
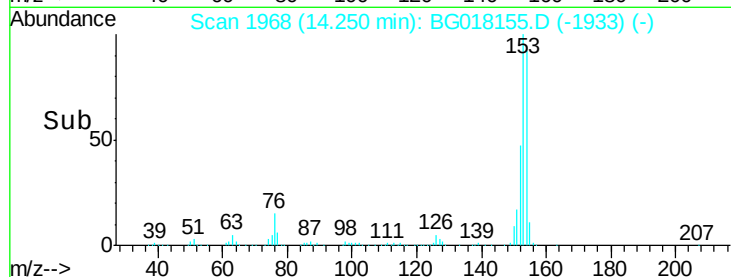
154 92.0 72.6 108.8



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

Dibenzofuran

Concen: 9.26 ng/ul

RT: 14.58 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BG018155.D

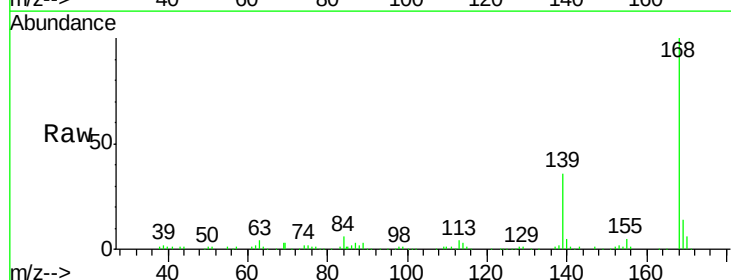
Acq: 28 Jul 2015 20:22

Tgt Ion:168 Resp: 92465

Ion Ratio Lower Upper

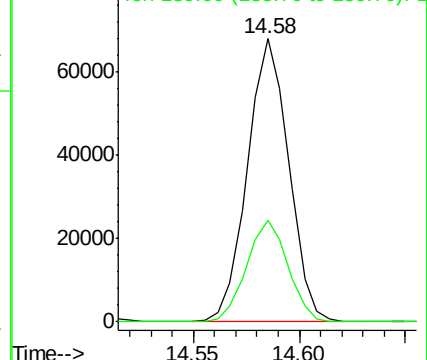
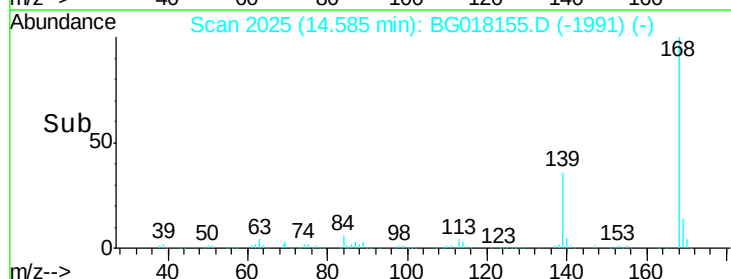
168 100

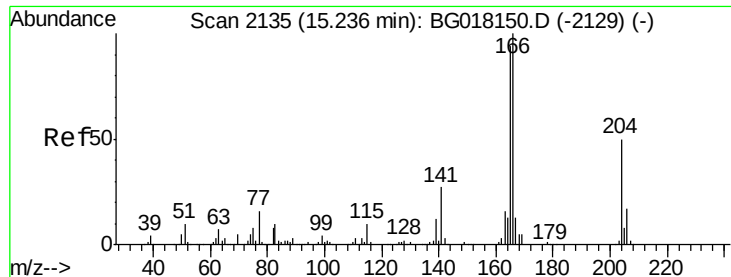
139 35.8 30.6 46.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 17.02 ng/ul

RT: 15.24 min Scan# 2136

Delta R.T. 0.00 min

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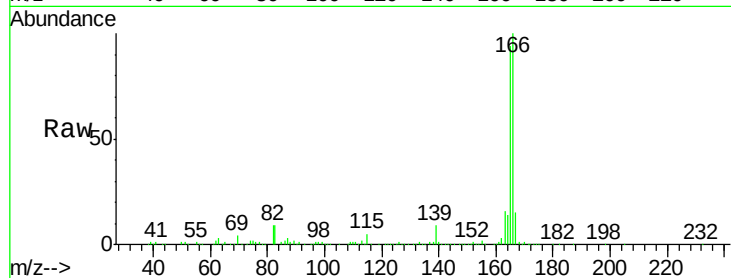
Tgt Ion:166 Resp: 146253

Ion Ratio Lower Upper

166 100

165 93.8 73.6 110.4

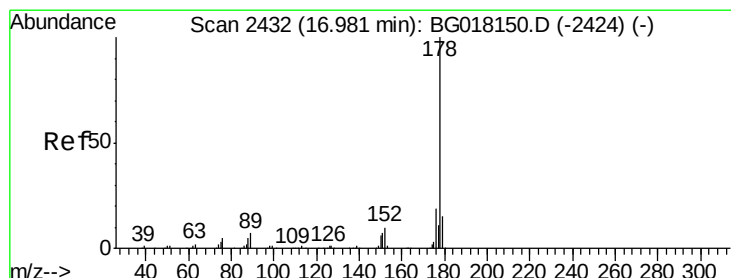
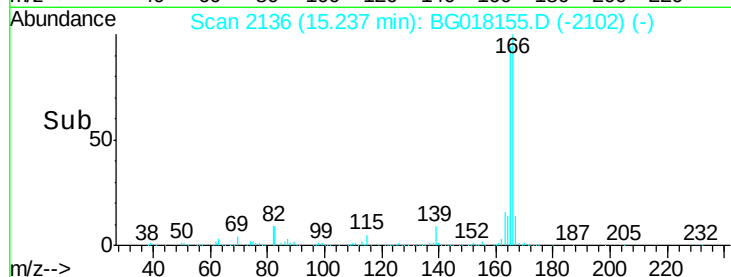
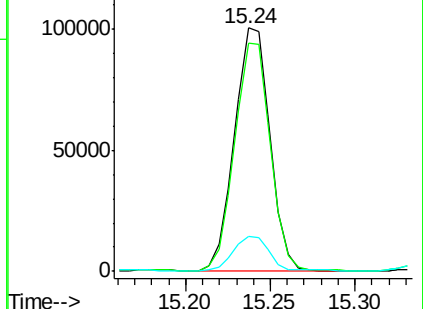
167 14.6 10.8 16.2



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



#70

Phenanthrene

Concen: 138.95 ng/ul

RT: 16.99 min Scan# 2435

Delta R.T. 0.01 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

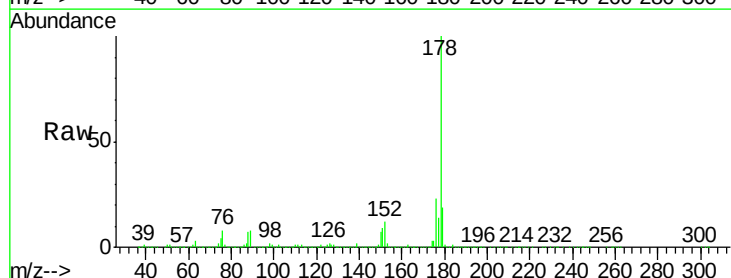
Tgt Ion:178 Resp: 1660415

Ion Ratio Lower Upper

178 100

179 18.9 13.0 19.6

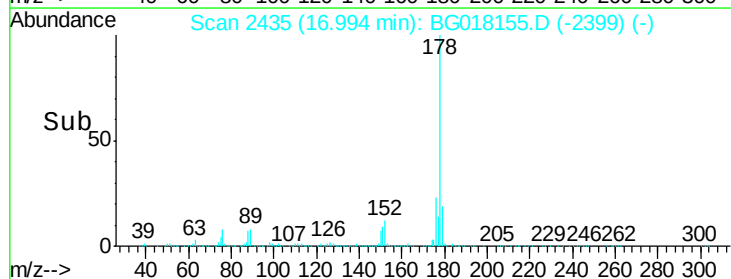
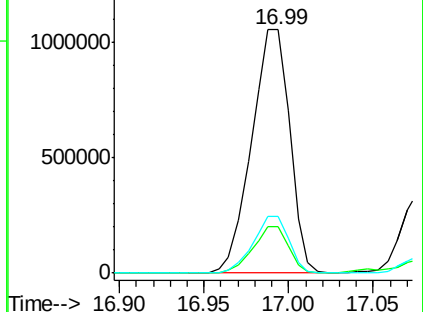
176 23.5 15.8 23.8

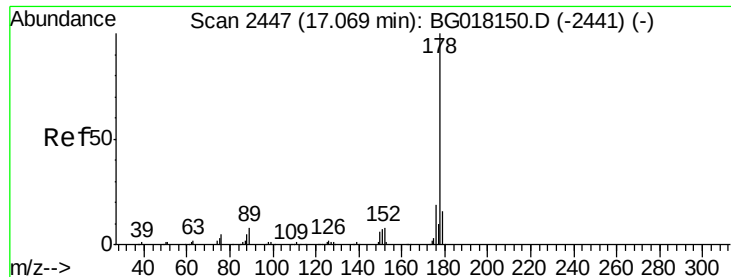


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 38.87 ng/ul

RT: 17.08 min Scan# 2449

Delta R.T. 0.01 min

Lab File: BG018155.D

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C01M0

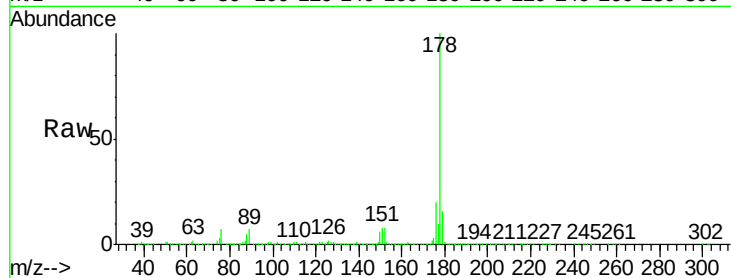
Tgt Ion:178 Resp: 471655

Ion Ratio Lower Upper

178 100

179 16.3 12.4 18.6

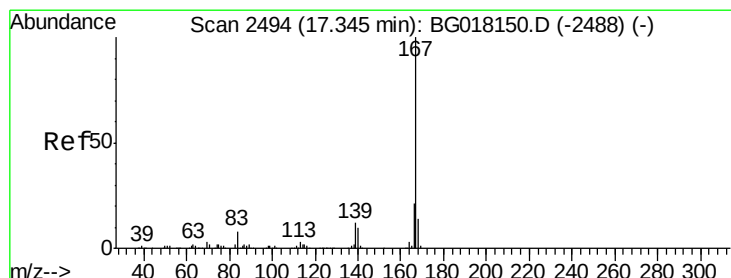
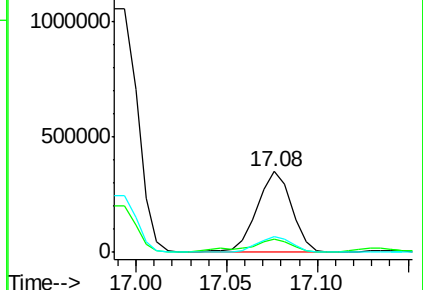
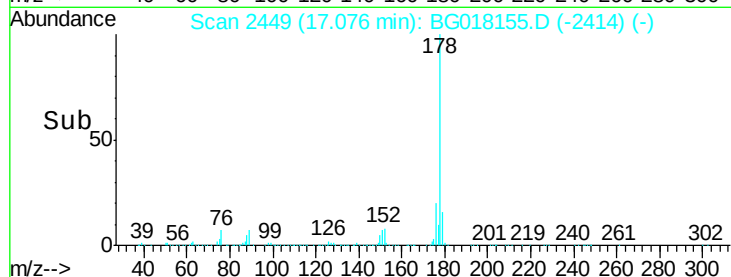
176 19.8 15.8 23.8



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



#75

Carbazole

Concen: 17.98 ng/ul

RT: 17.35 min Scan# 2496

Delta R.T. 0.01 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

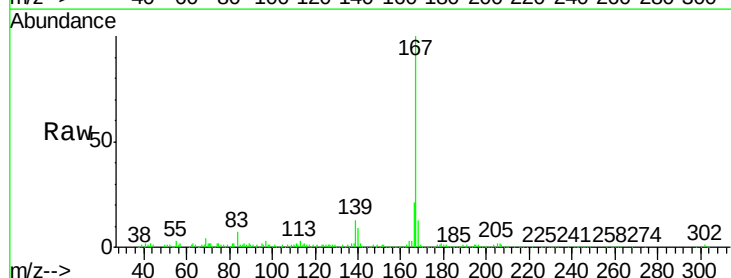
Tgt Ion:167 Resp: 189044

Ion Ratio Lower Upper

167 100

166 21.4 17.4 26.2

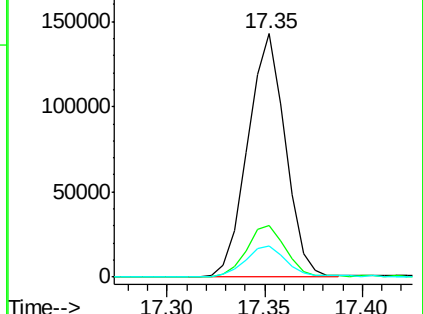
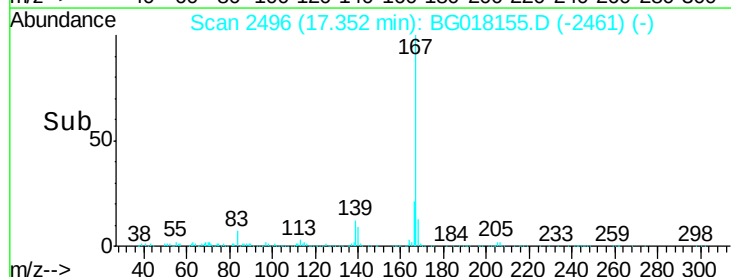
139 12.6 10.6 15.8

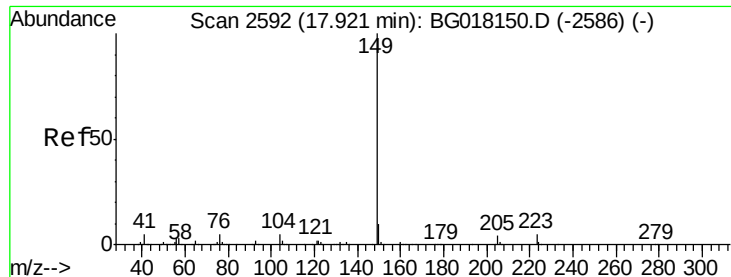


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#76

Di-n-butylphthalate

Concen: 14.26 ng/ul

RT: 17.93 min Scan# 2594

Delta R.T. 0.01 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

Instrument :

BNA_G

ClientSampleId :

C01M0

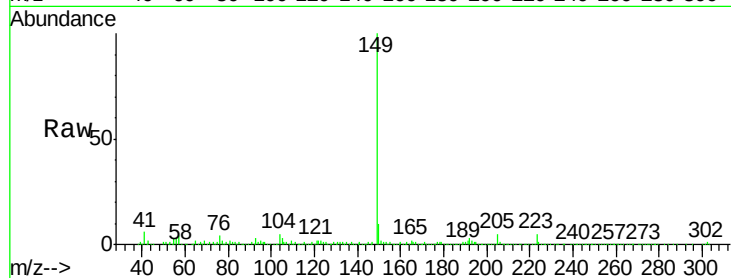
Tgt Ion:149 Resp: 197281

Ion Ratio Lower Upper

149 100

150 9.7 7.4 11.0

104 4.7 3.8 5.8



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

17.93

150000

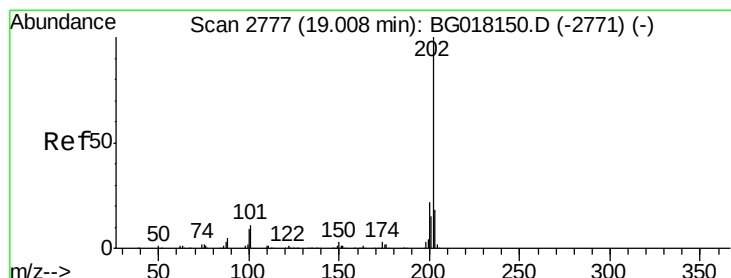
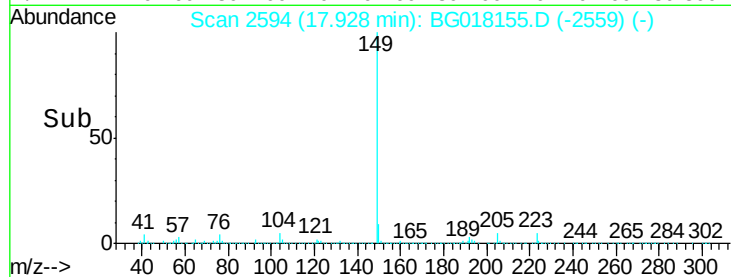
100000

50000

0

17.90 17.95

Time-->



#77

Fluoranthene

Concen: 174.38 ng/ul

RT: 19.03 min Scan# 2781

Delta R.T. 0.02 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

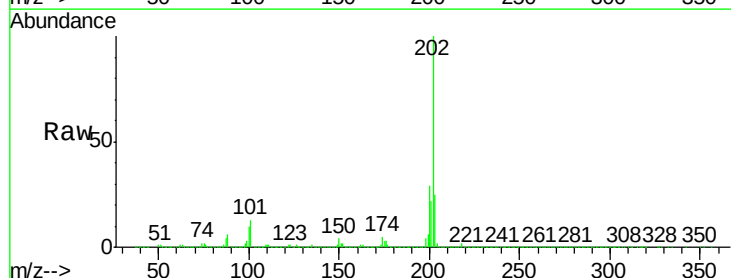
Tgt Ion:202 Resp: 2219760

Ion Ratio Lower Upper

202 100

101 13.1 9.1 13.7

100 10.3 7.5 11.3



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

19.03

1500000

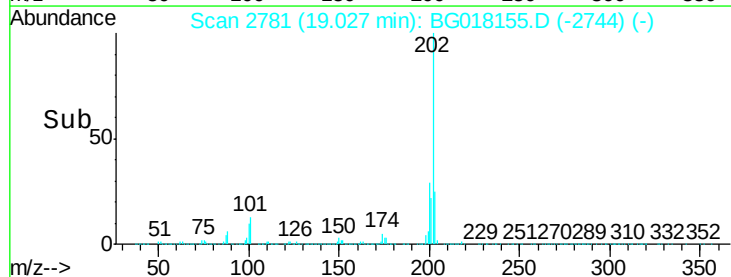
1000000

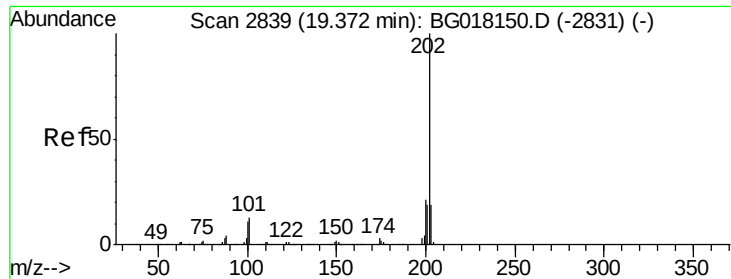
500000

0

18.95 19.00 19.05

Time-->

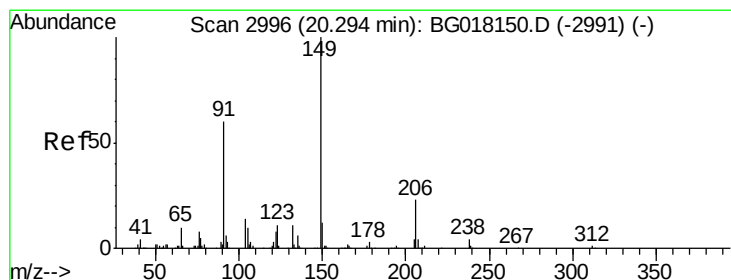
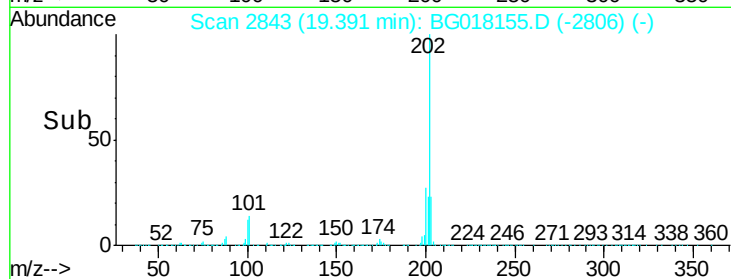
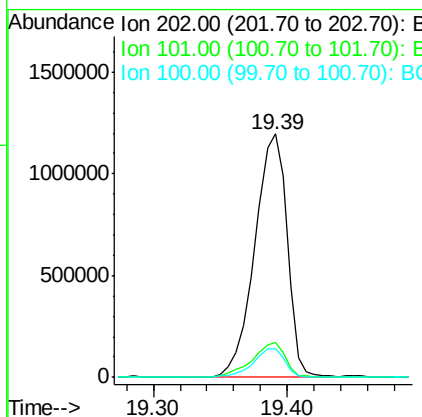
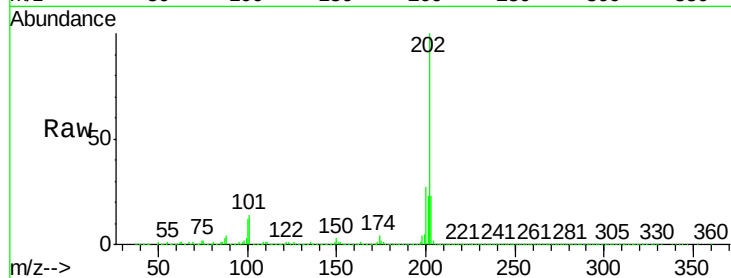




#80
 Pyrene
 Concen: 129.45 ng/ul
 RT: 19.39 min Scan# 2843
 Delta R.T. 0.02 min
 Lab File: BG018155.D
 Acq: 28 Jul 2015 20:22

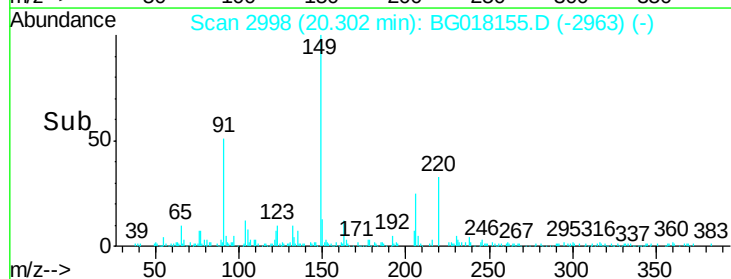
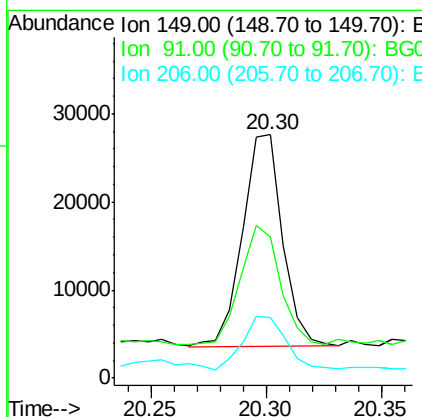
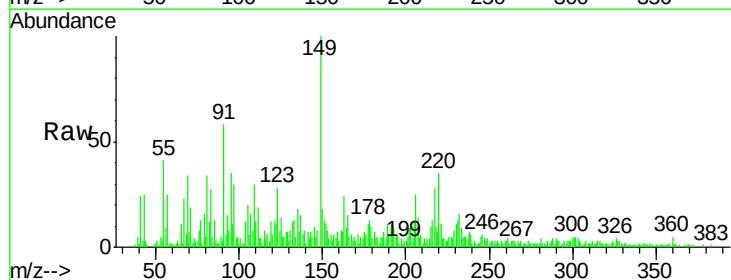
Instrument :
 BNA_G
 ClientSampleId :
 C01M0

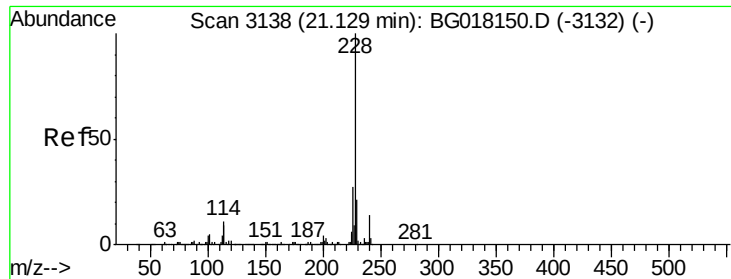
Tgt Ion:202 Resp: 1997671
 Ion Ratio Lower Upper
 202 100
 101 14.4 10.9 16.3
 100 12.0 8.5 12.7



#81
 Butylbenzylphthalate
 Concen: 4.64 ng/ul
 RT: 20.30 min Scan# 2998
 Delta R.T. 0.01 min
 Lab File: BG018155.D
 Acq: 28 Jul 2015 20:22

Tgt Ion:149 Resp: 29259
 Ion Ratio Lower Upper
 149 100
 91 58.2 51.1 76.7
 206 25.1 19.9 29.9





#83

Benzo(a)anthracene

Concen: 90.62 ng/ul

RT: 21.14 min Scan# 3141

Delta R.T. 0.01 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

Instrument :

BNA_G

ClientSampleId :

C01M0

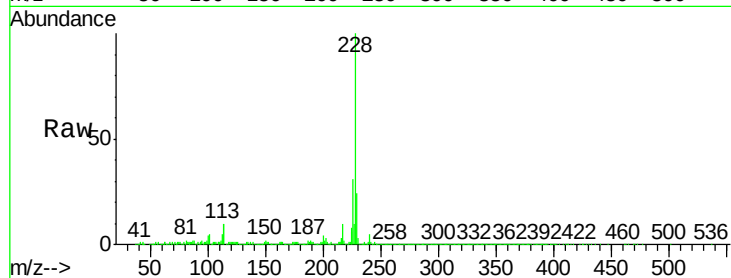
Tgt Ion:228 Resp: 1291541

Ion Ratio Lower Upper

228 100

229 24.2 16.6 24.8

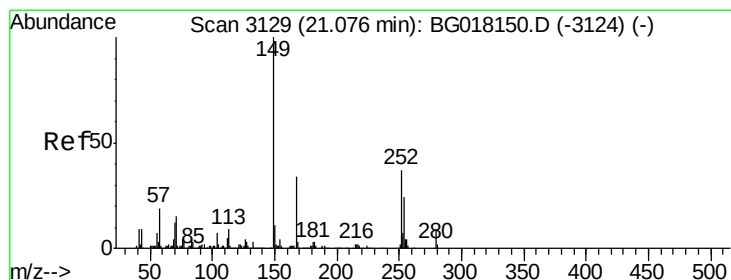
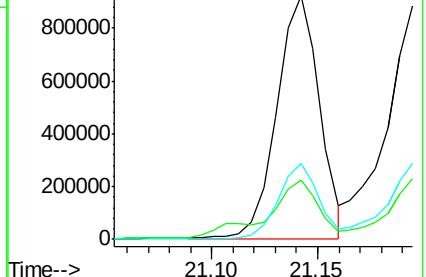
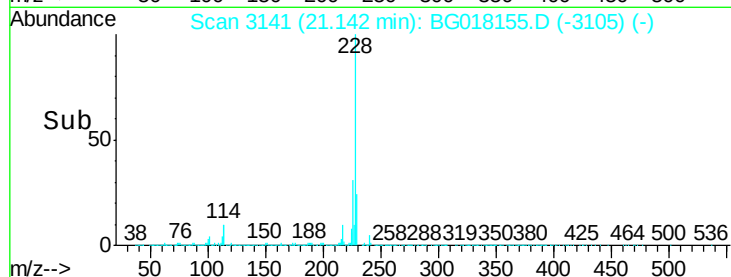
226 31.3 21.1 31.7



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 1.28 ng/ul

RT: 21.15 min Scan# 3143

Delta R.T. 0.08 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

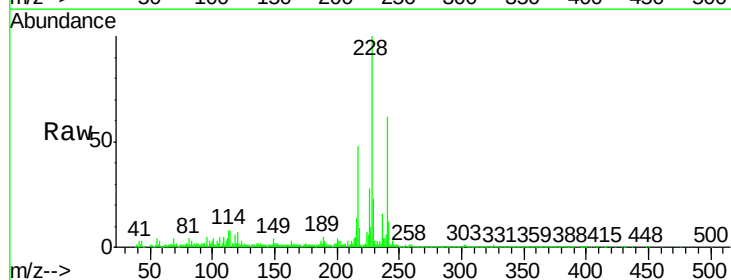
Tgt Ion:149 Resp: 11538

Ion Ratio Lower Upper

149 100

167 34.6 26.2 39.4

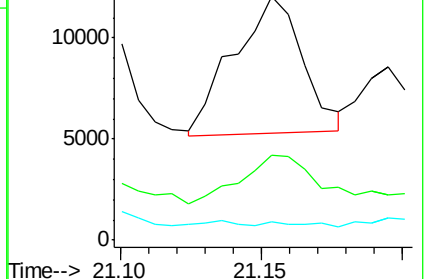
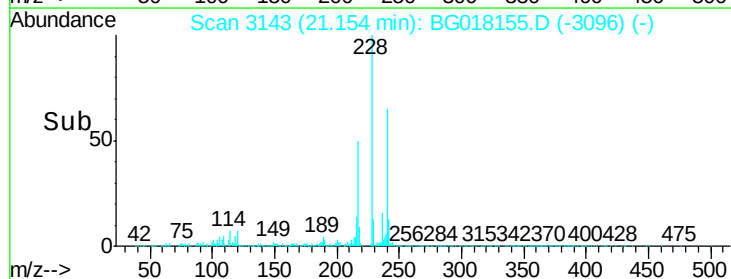
279 7.8 7.2 10.8

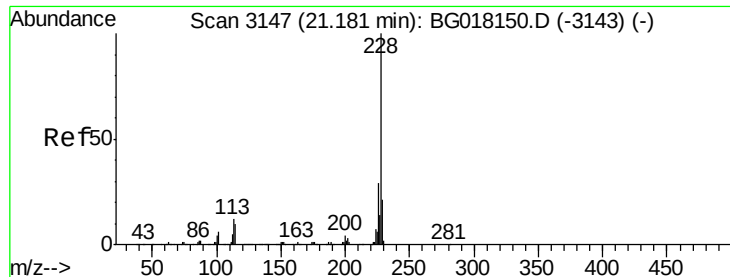


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 95.79 ng/ul

RT: 21.19 min Scan# 3150

Delta R.T. 0.01 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

Instrument :

BNA_G

ClientSampleId :

C01M0

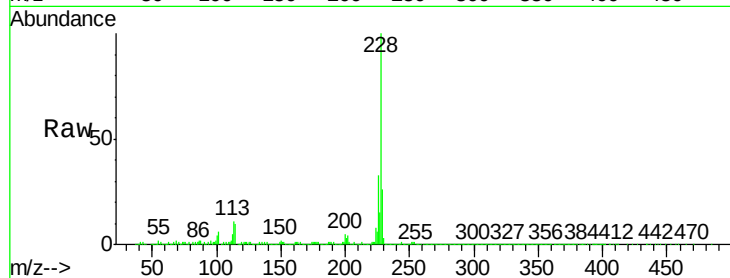
Tgt Ion:228 Resp: 1285540

Ion Ratio Lower Upper

228 100

226 32.7 22.9 34.3

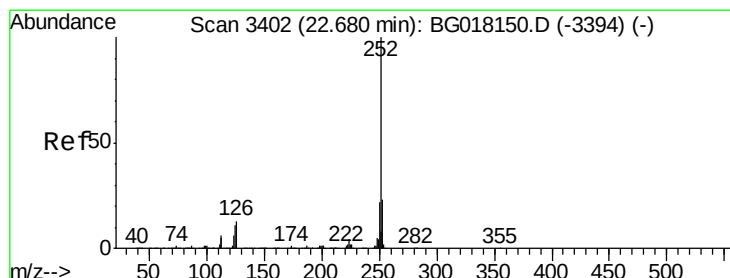
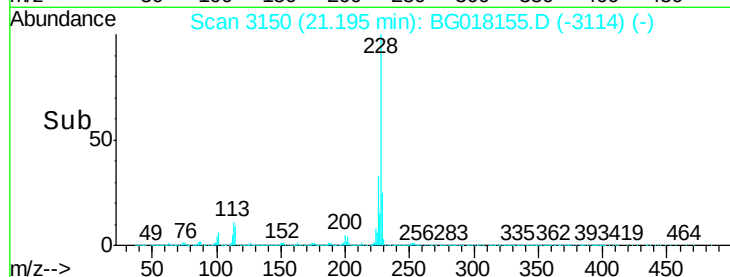
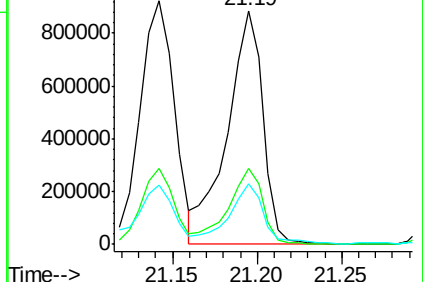
229 25.8 15.6 23.4#



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



#88

Benzo(b)fluoranthene

Concen: 106.85 ng/ul

RT: 22.70 min Scan# 3407

Delta R.T. 0.03 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

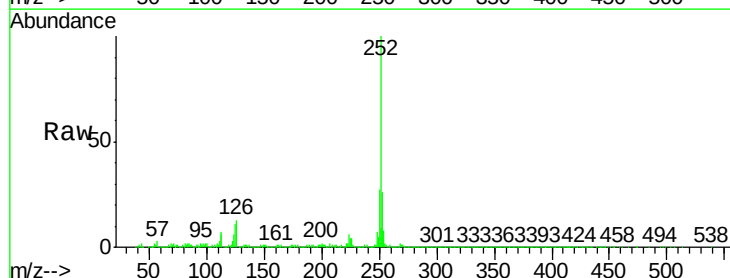
Tgt Ion:252 Resp: 1651806

Ion Ratio Lower Upper

252 100

253 26.0 18.5 27.7

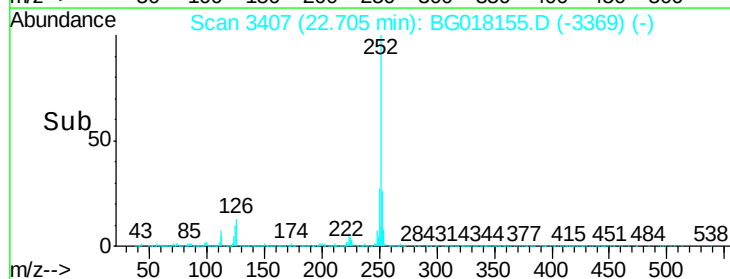
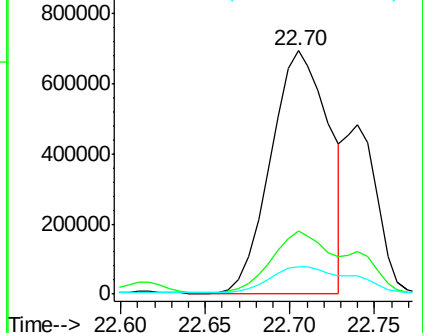
125 11.3 9.1 13.7

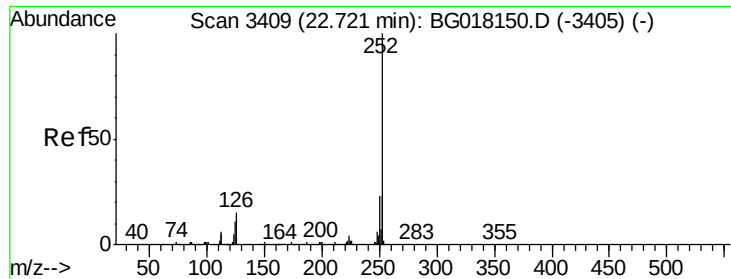


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 110.40 ng/ul

RT: 22.70 min Scan# 3407

Delta R.T. -0.02 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

Instrument :

BNA_G

ClientSampleId :

C01M0

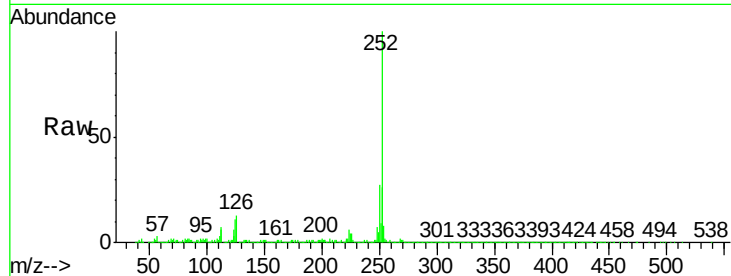
Tgt Ion:252 Resp: 1651806

Ion Ratio Lower Upper

252 100

253 26.0 17.8 26.8

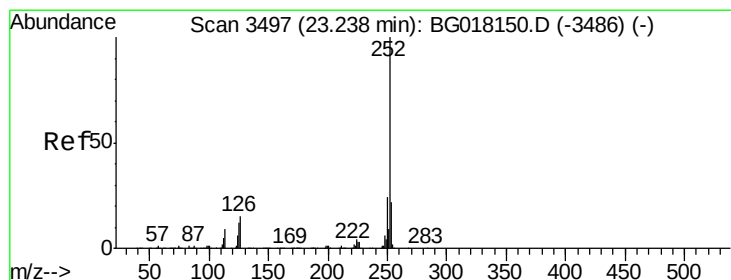
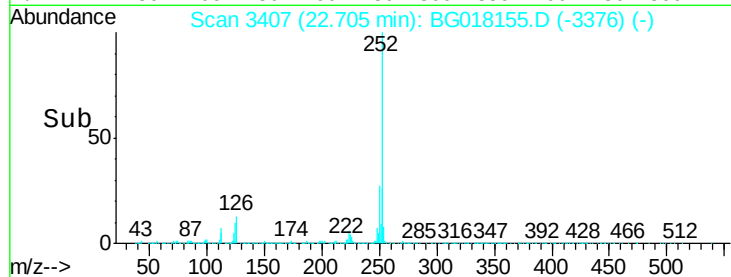
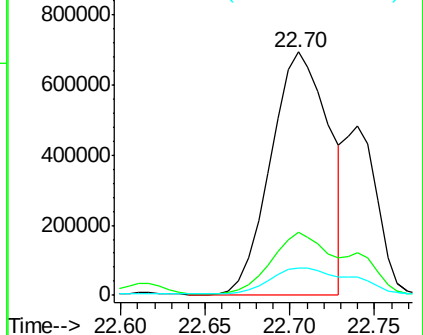
125 11.3 9.3 13.9



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



#91

Benzo(a)pyrene

Concen: 79.26 ng/ul

RT: 23.27 min Scan# 3503

Delta R.T. 0.03 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

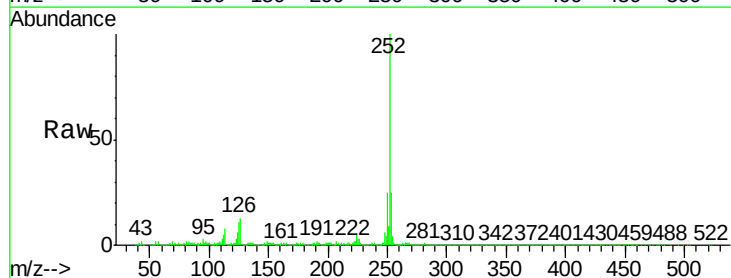
Tgt Ion:252 Resp: 1186674

Ion Ratio Lower Upper

252 100

253 25.1 18.0 27.0

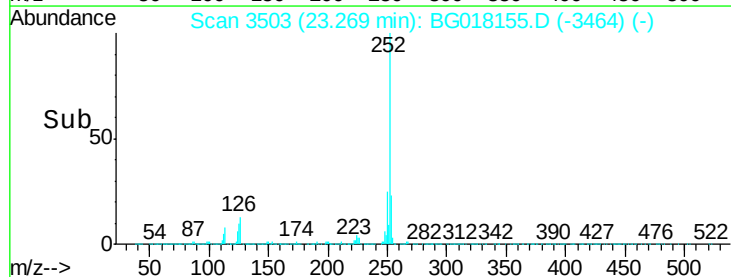
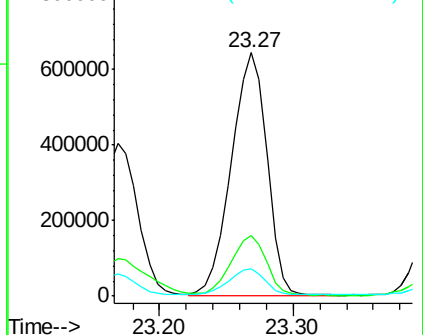
125 11.3 10.2 15.2

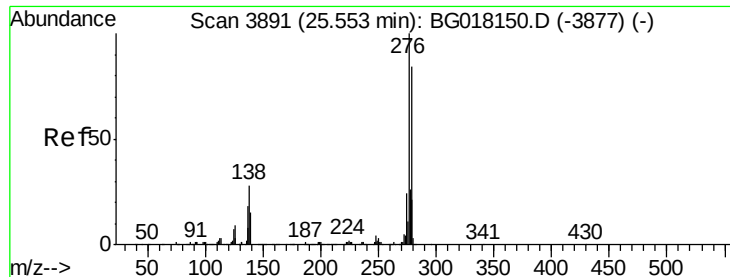


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 45.11 ng/ul

RT: 25.58 min Scan# 3897

Delta R.T. 0.03 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

Instrument :

BNA_G

ClientSampleId :

C01M0

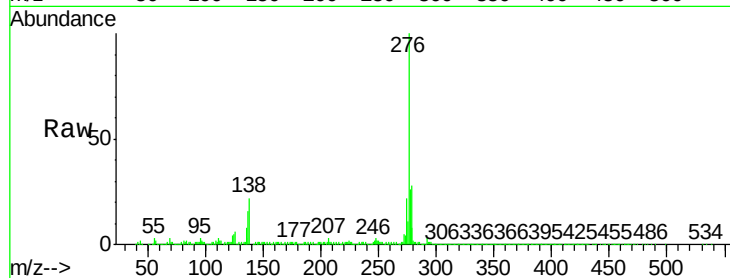
Tgt Ion:276 Resp: 779146

Ion Ratio Lower Upper

276 100

138 21.6 22.6 33.8#

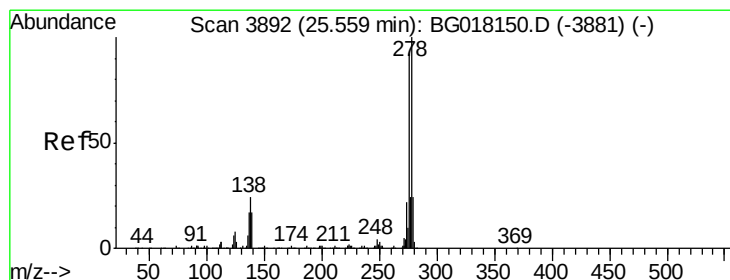
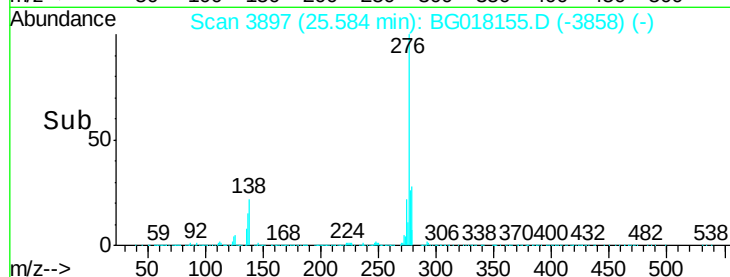
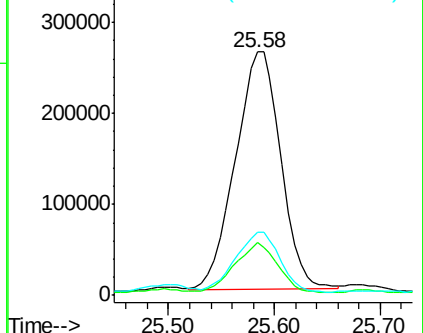
277 26.1 19.8 29.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#93

Dibenzo(a,h)anthracene

Concen: 15.45 ng/ul

RT: 25.58 min Scan# 3897

Delta R.T. 0.03 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

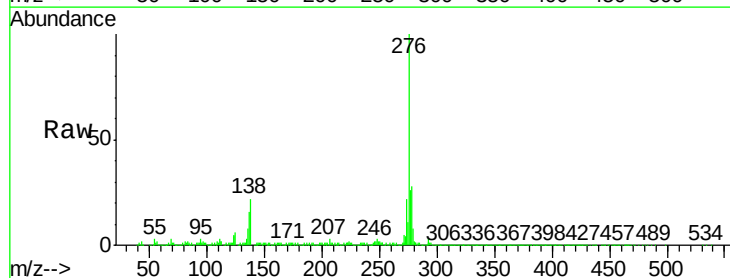
Tgt Ion:278 Resp: 227793

Ion Ratio Lower Upper

278 100

139 0.0 13.7 20.5#

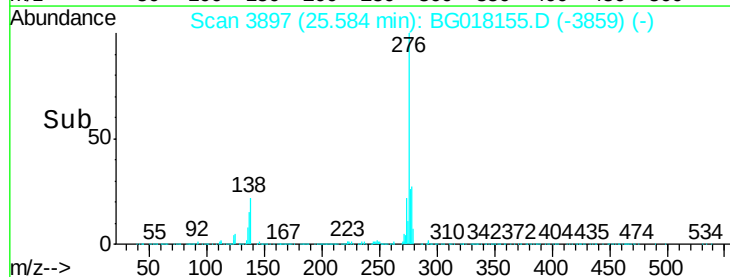
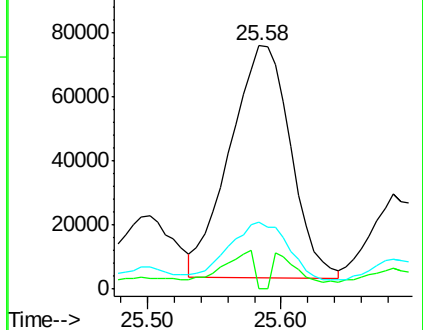
279 27.5 18.1 27.1#

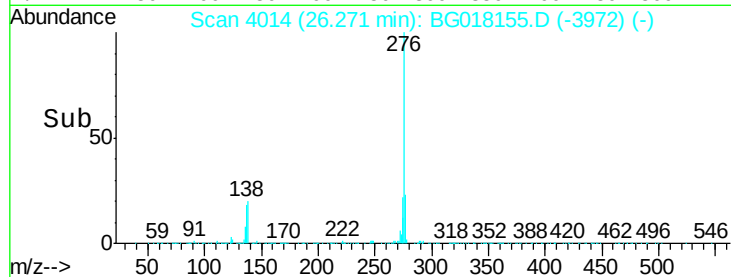
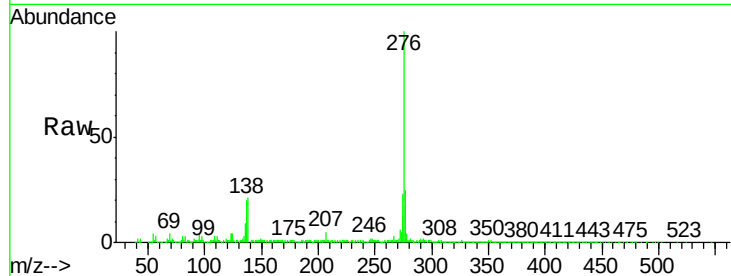
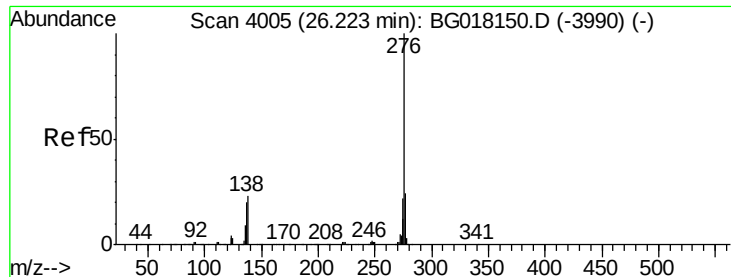


Abundance Ion 278.00 (277.70 to 278.70): E

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: 46.54 ng/ul

RT: 26.27 min Scan# 4014

Delta R.T. 0.05 min

Lab File: BG018155.D

Acq: 28 Jul 2015 20:22

Instrument :

BNA_G

ClientSampleId :

C01M0

Tgt Ion:276 Resp: 664249

Ion Ratio Lower Upper

276 100

138 21.2 18.8 28.2

277 25.2 19.3 28.9

