

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072315\
 Data File : BG018087.D
 Acq On : 24 Jul 2015 4:27
 Operator : TP/UM
 Sample : G3035-22
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Jul 24 06:47:02 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG072315.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Jul 24 01:33:04 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	57278	20.00	ng/ul	0.00
18) Naphthalene-d8	10.29	136	271185	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.18	164	170251	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.94	188	343602	20.00	ng/ul	0.00
78) Chrysene-d12	21.14	240	347737	20.00	ng/ul	0.00
86) Perylene-d12	23.33	264	354373	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.02	96	1632	1.78	ng/uL	0.00
5) Phenol-d5	6.69	99	48169	10.90	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.85	67	24612	11.28	ng/ul	0.00
9) 2-Chlorophenol-d4	7.05	132	44392	11.33	ng/ul	0.00
13) 4-Methylphenol-d8	8.23	113	31086	7.93	ng/ul	0.00
19) Nitrobenzene-d5	8.67	128	24927	11.63	ng/ul	0.00
22) 2-Nitrophenol-d4	9.39	143	26694	11.79	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.92	165	43730	11.10	ng/ul	0.00
29) 4-Chloroaniline-d4	10.44	131	28830	6.29	ng/ul	0.00
44) Dimethylphthalate-d6	13.60	166	133562	11.17	ng/ul	0.00
47) Acenaphthylene-d8	13.87	160	149008	10.15	ng/ul	0.00
52) 4-Nitrophenol-d4	14.40	143	21725	8.64	ng/ul	0.00
58) Fluorene-d10	15.18	176	103026	9.33	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.31	200	15806	7.19	ng/ul	0.00
71) Anthracene-d10	17.04	188	131092	8.81	ng/ul	0.00
79) Pyrene-d10	19.34	212	128698	8.08	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.19	264	109446	6.47	ng/ul	0.00

Target Compounds

						Ovalue
14) Acetophenone	8.33	105	23776	4.30	ng/ul	93
28) Naphthalene	10.34	128	25680	2.02	ng/ul#	95
34) 2-Methylnaphthalene	11.97	142	10178	1.06	ng/ul	82
45) Dimethylphthalate	13.64	163	55468	4.61	ng/ul	99
50) Acenaphthene	14.24	153	24803	2.46	ng/ul	92
54) Dibenzofuran	14.58	168	28726	2.00	ng/ul	94
59) Fluorene	15.23	166	30258	2.45	ng/ul	98
70) Phenanthrene	16.98	178	499217	28.92	ng/ul	98
72) Anthracene	17.06	178	98610	5.63	ng/ul	97
75) Carbazole	17.34	167	53548	3.53	ng/ul	99
76) Di-n-butylphthalate	17.92	149	67259	3.36	ng/ul	98
77) Fluoranthene	19.01	202	617304	33.57	ng/ul	99
80) Pyrene	19.37	202	509360	25.58	ng/ul	99
83) Benzo(a)anthracene	21.12	228	263759	14.34	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.07	149	33197	2.84	ng/ul	99
85) Chrysene	21.18	228	241289	13.93	ng/ul	97
88) Benzo(b)fluoranthene	22.68	252	329156	16.95	ng/ul#	93
89) Benzo(k)fluoranthene	22.68	252	329156	17.52	ng/ul#	92
91) Benzo(a)pyrene	23.23	252	210871	11.21	ng/ul#	93
92) Indeno(1,2,3-cd)pyrene	25.54	276	139011	6.41	ng/ul#	90
93) Dibenzo(a,h)anthracene	25.54	278	37964	2.05	ng/ul	95
94) Benzo(a,h,i)perylene	26.21	276	63564	3.55	ng/ul	100

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Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 24 01:33:04 2015
Response via : Initial Calibration

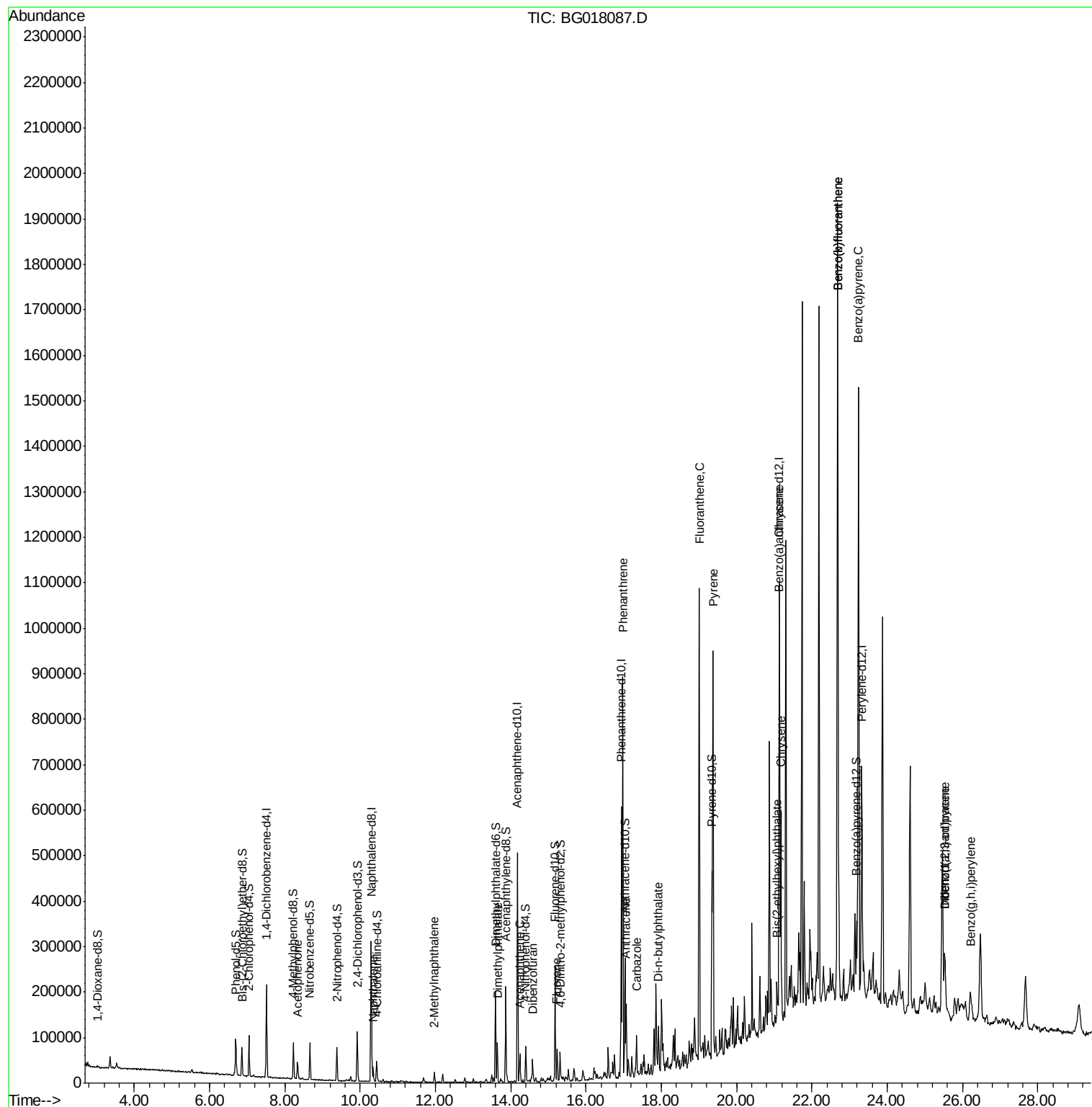
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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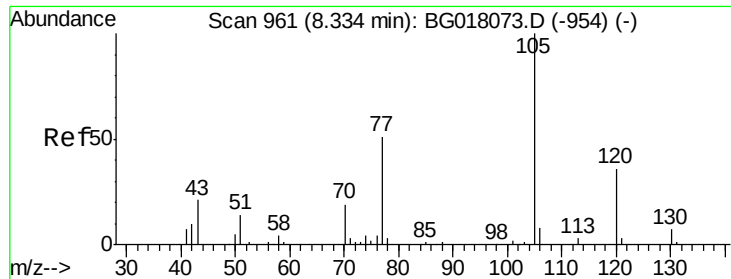
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#14

Acetophenone

Concen: 4.30 ng/ul

RT: 8.33 min Scan# 961

Delta R.T. -0.00 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

Instrument :

BNA_G

ClientSampleId :

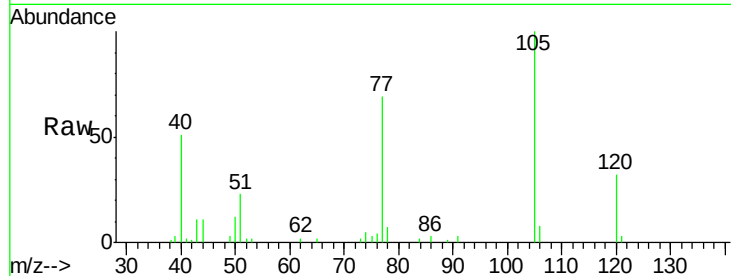
Tot Ion:105 Resp: 23776

Ion Ratio Lower Upper

105 100

77 69.2 61.7 92.5

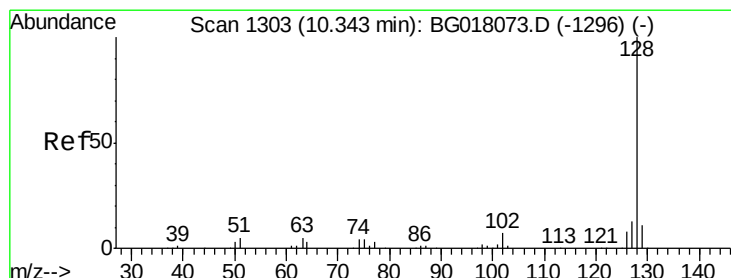
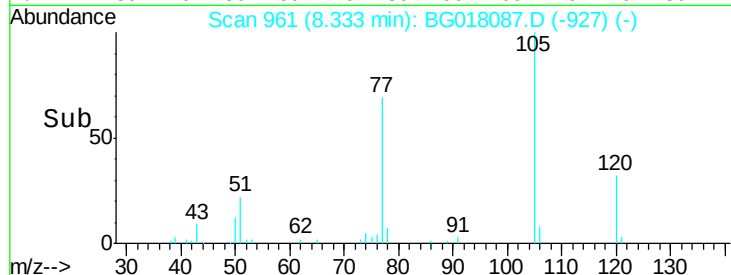
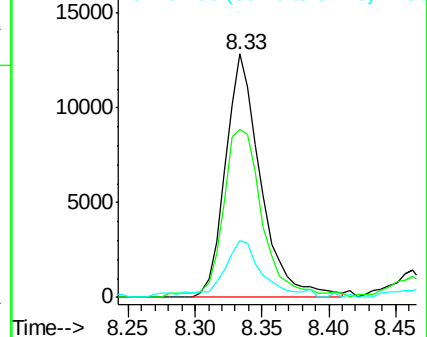
51 23.2 18.1 27.1



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: 2.02 ng/ul

RT: 10.34 min Scan# 1303

Delta R.T. -0.00 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

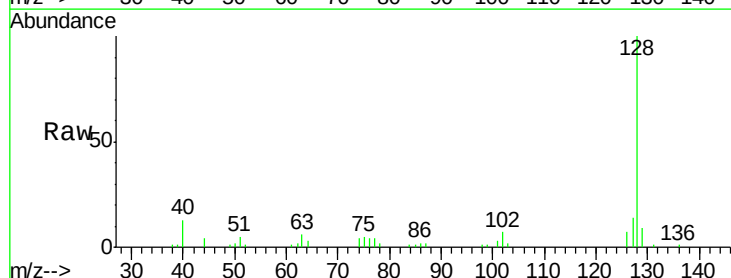
Tgt Ion:128 Resp: 25680

Ion Ratio Lower Upper

128 100

129 8.9 9.5 14.3#

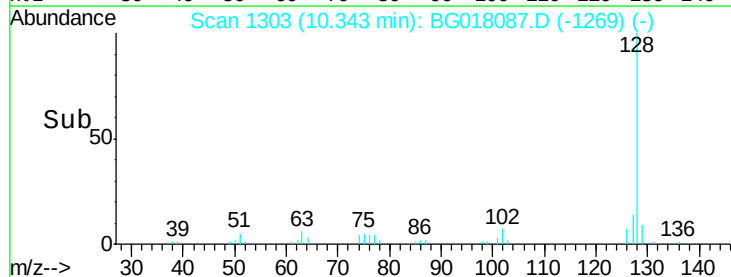
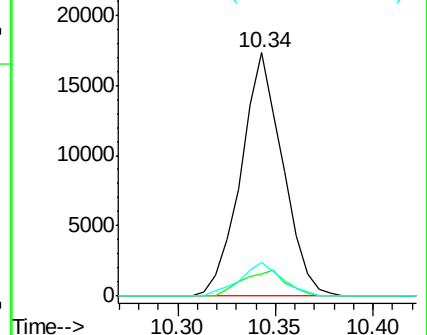
127 13.9 10.1 15.1

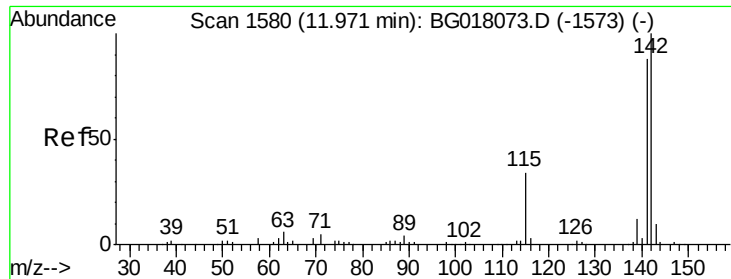


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

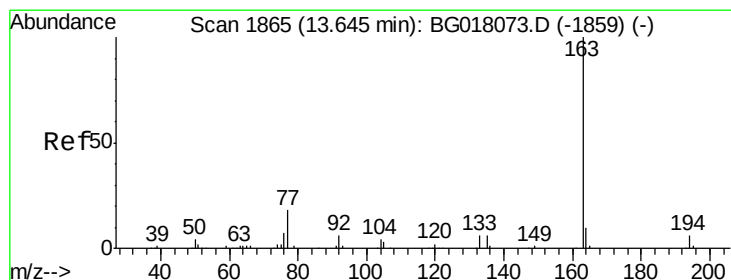
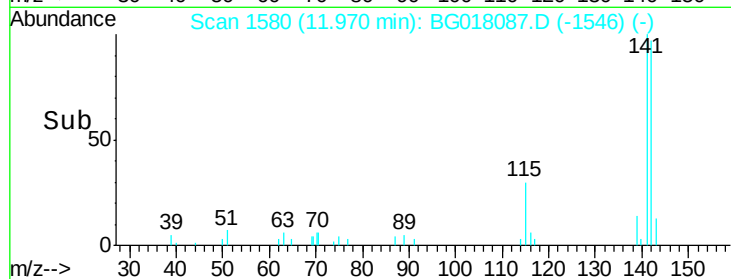
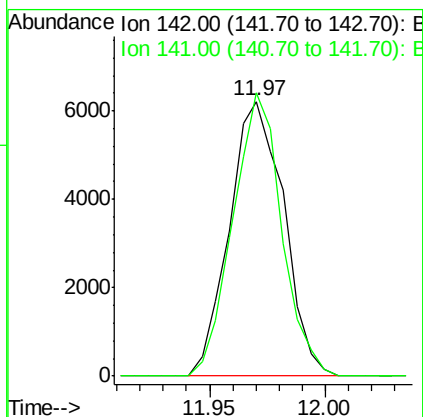
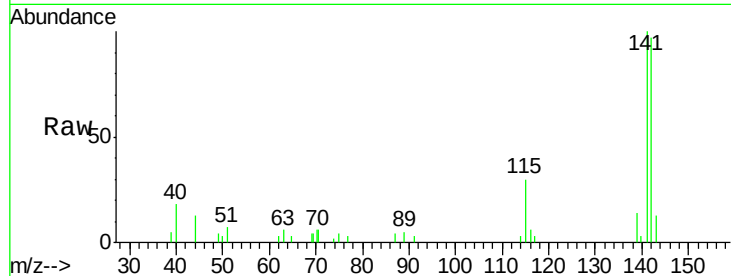




#34
 2-Methylnaphthalene
 Concen: 1.06 ng/ul
 RT: 11.97 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: BG018087.D
 Acq: 24 Jul 2015 4:27

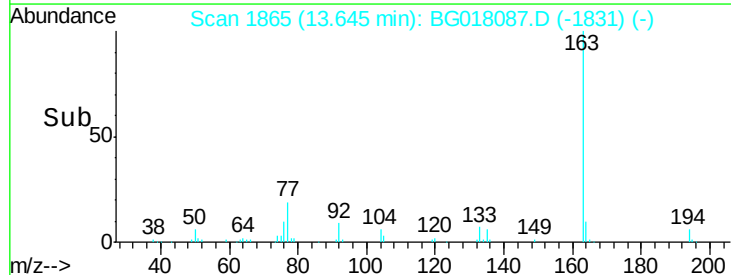
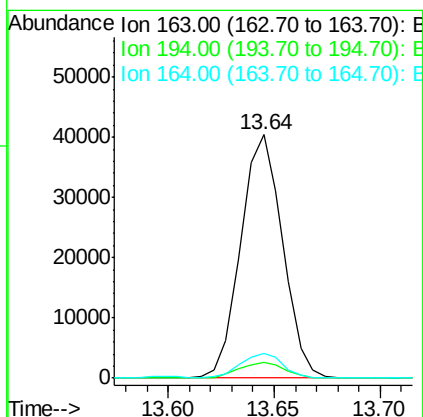
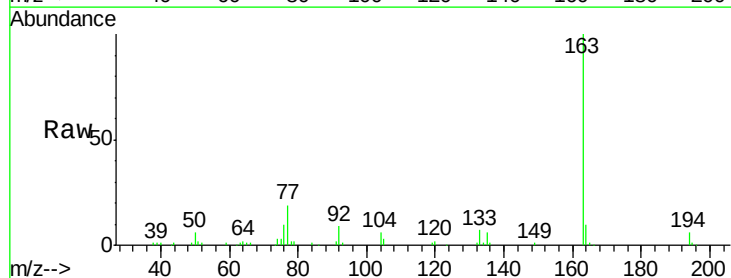
Instrument :
 BNA_G
 ClientSampleId :

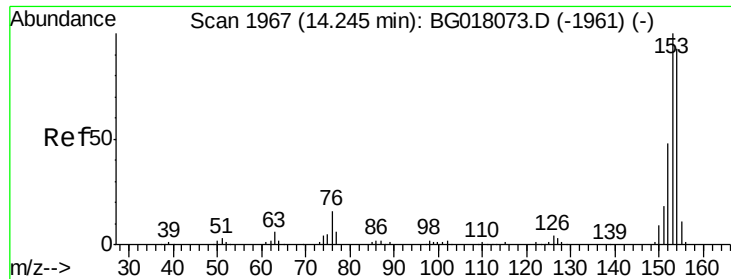
Tot Ion:142 Resp: 10178
 Ion Ratio Lower Upper
 142 100
 141 103.1 69.4 104.0



#45
 Dimethylphthalate
 Concen: 4.61 ng/ul
 RT: 13.64 min Scan# 1865
 Delta R.T. -0.00 min
 Lab File: BG018087.D
 Acq: 24 Jul 2015 4:27

Tgt Ion:163 Resp: 55468
 Ion Ratio Lower Upper
 163 100
 194 6.2 5.4 8.2
 164 10.4 8.7 13.1





#50

Acenaphthene

Concen: 2.46 ng/ul

RT: 14.24 min Scan# 1967

Delta R.T. -0.00 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

Instrument :

BNA_G

ClientSampleId :

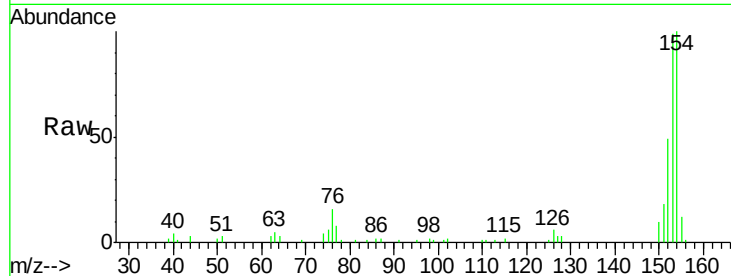
Tot Ion:153 Resp: 24803

Ion Ratio Lower Upper

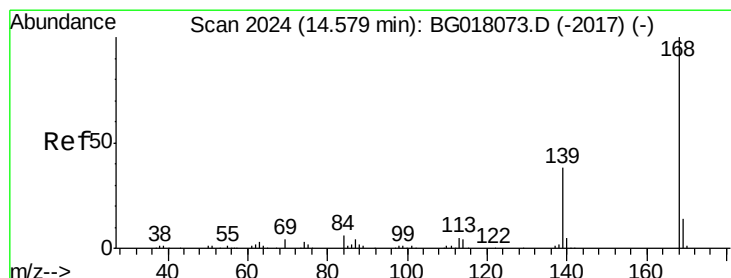
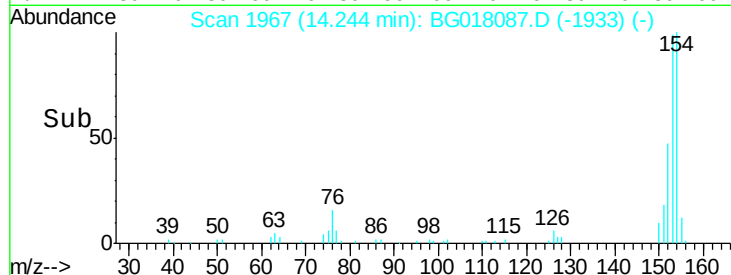
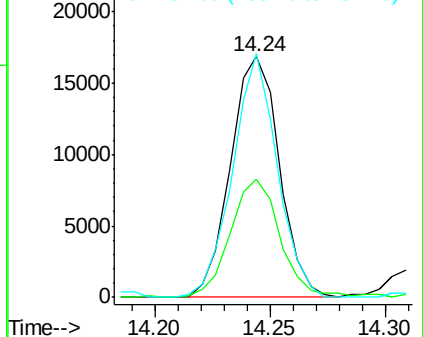
153 100

152 49.2 38.9 58.3

154 101.2 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: 2.00 ng/ul

RT: 14.58 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BG018087.D

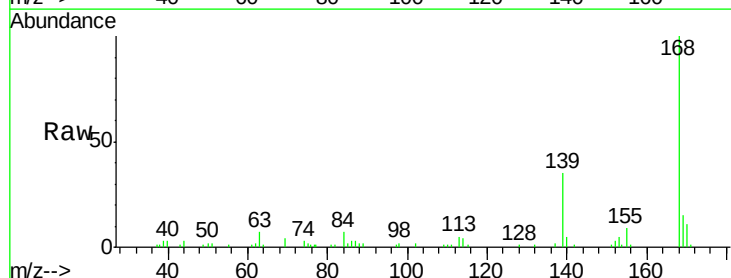
Acq: 24 Jul 2015 4:27

Tgt Ion:168 Resp: 28726

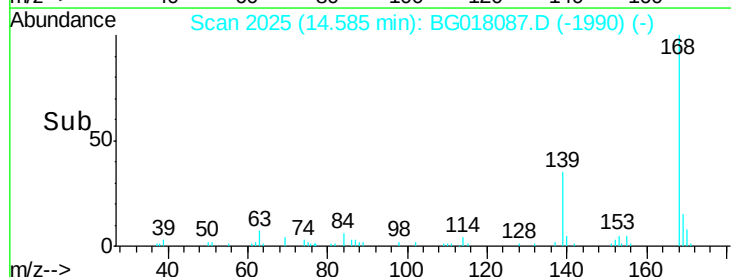
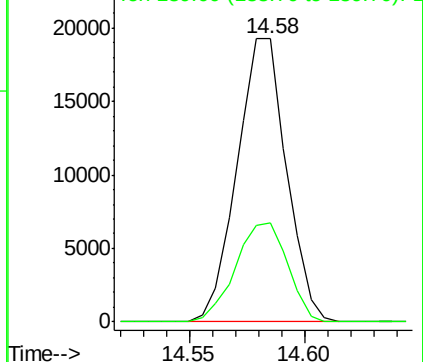
Ion Ratio Lower Upper

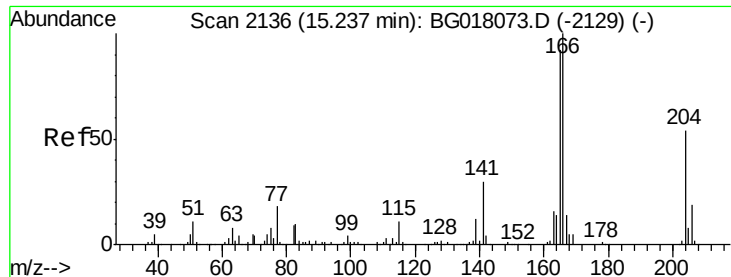
168 100

139 34.9 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: 2.45 ng/ul

RT: 15.23 min Scan# 2135

Delta R.T. -0.01 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

Instrument :

BNA_G

ClientSampleId :

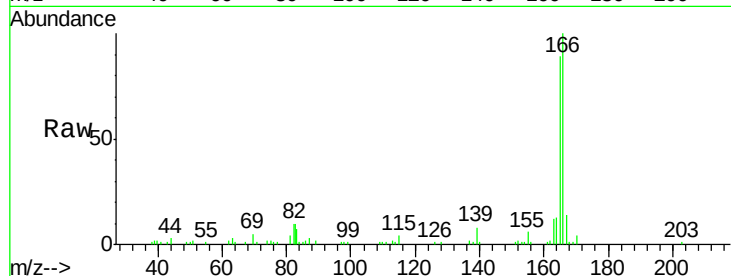
Tot Ion:166 Resp: 30258

Ion Ratio Lower Upper

166 100

165 89.4 73.6 110.4

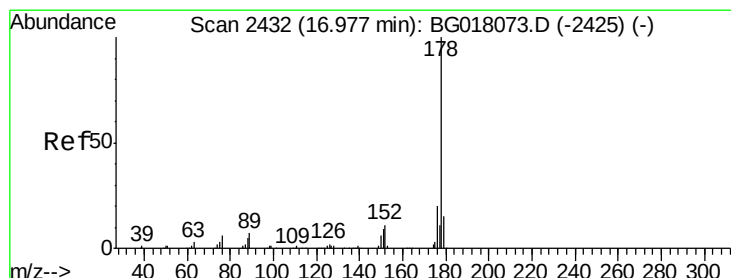
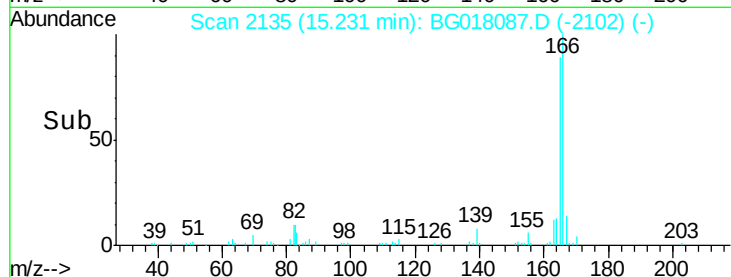
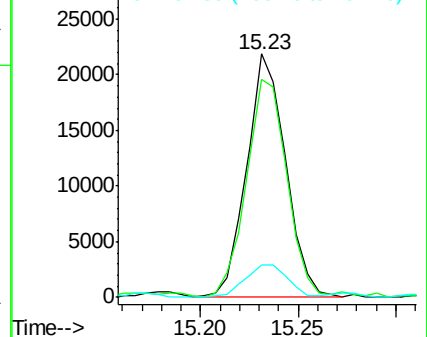
167 13.5 10.8 16.2



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: 28.92 ng/ul

RT: 16.98 min Scan# 2432

Delta R.T. -0.00 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

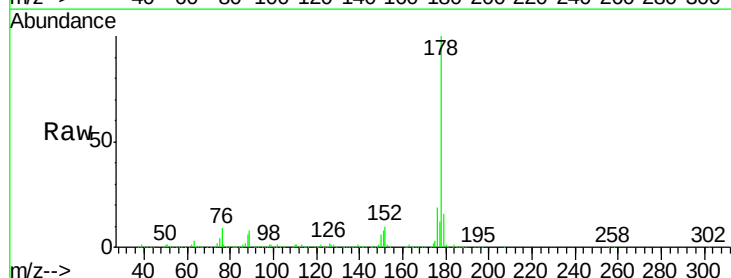
Tgt Ion:178 Resp: 499217

Ion Ratio Lower Upper

178 100

179 15.5 13.0 19.6

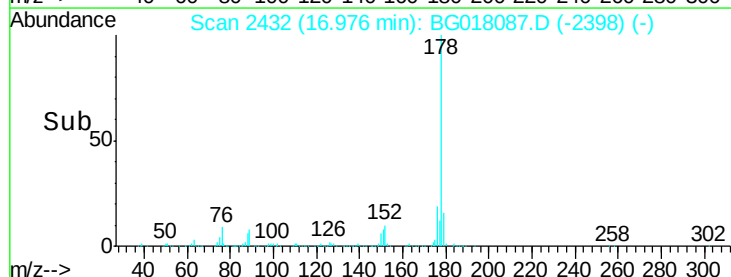
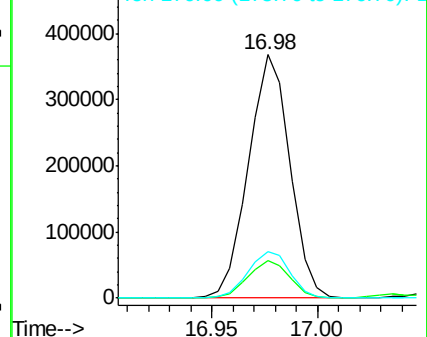
176 19.2 15.8 23.8

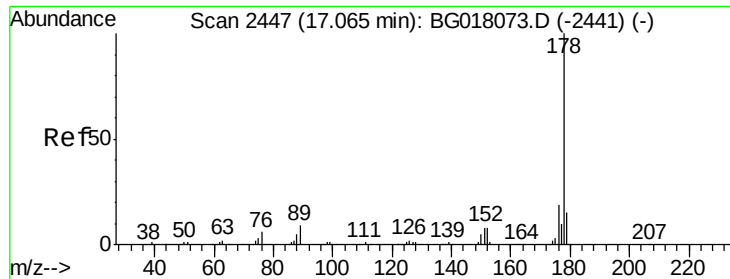


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 5.63 ng/ul

RT: 17.06 min Scan# 2447

Delta R.T. -0.00 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

Instrument :

BNA_G

ClientSampleId :

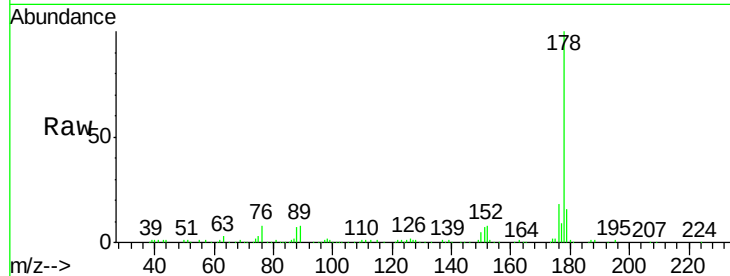
Tot Ion:178 Resp: 98610

Ion Ratio Lower Upper

178 100

179 15.8 12.4 18.6

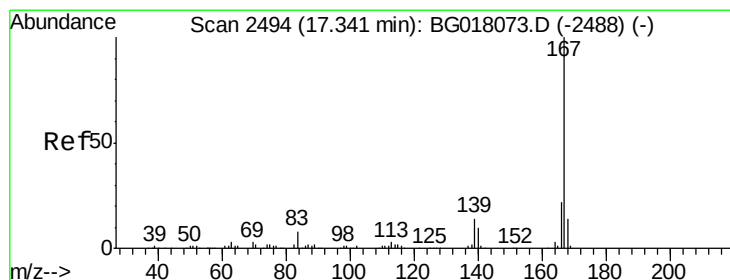
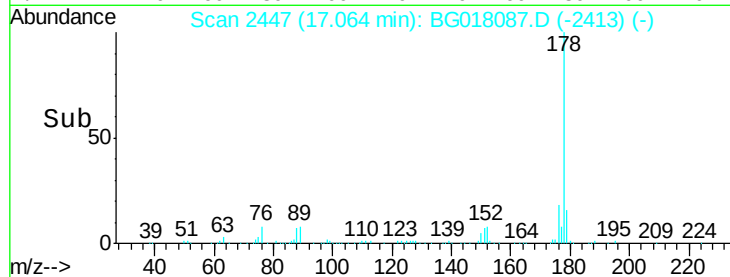
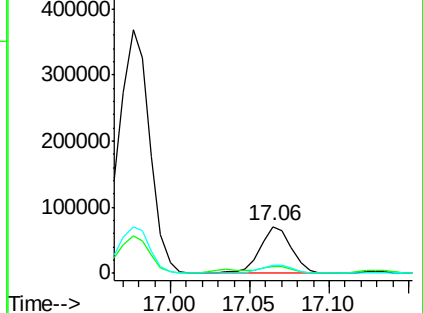
176 17.7 15.8 23.8



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: 3.53 ng/ul

RT: 17.34 min Scan# 2494

Delta R.T. -0.00 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

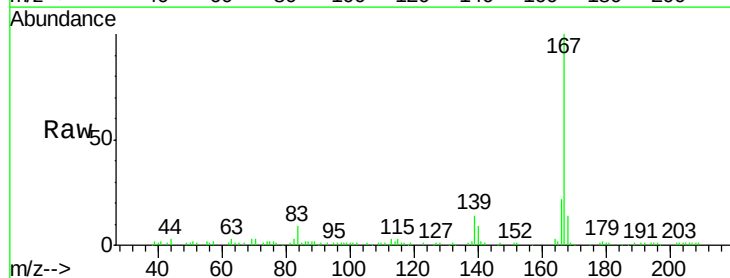
Tgt Ion:167 Resp: 53548

Ion Ratio Lower Upper

167 100

166 22.3 17.4 26.2

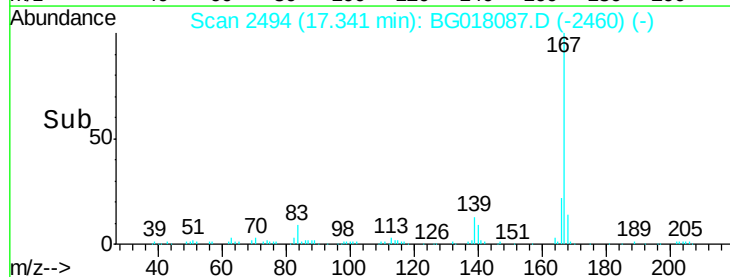
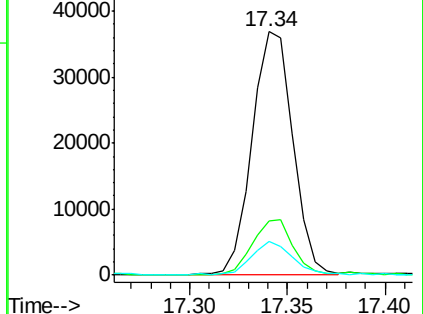
139 13.6 10.6 15.8

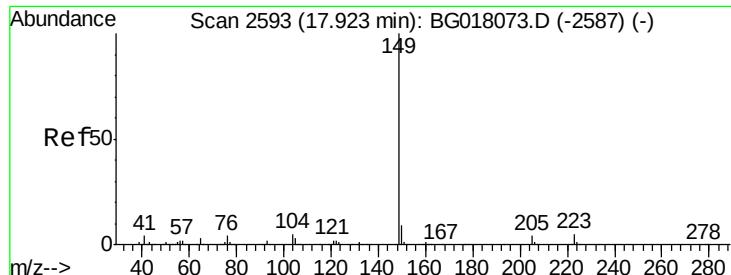


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

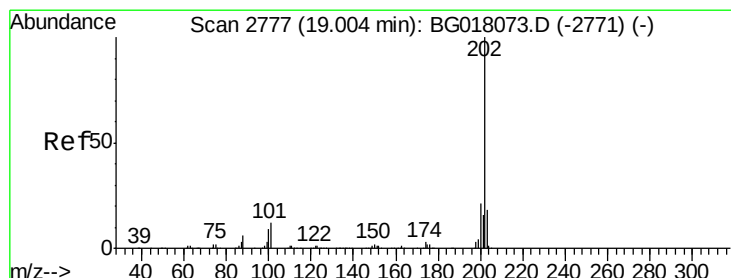
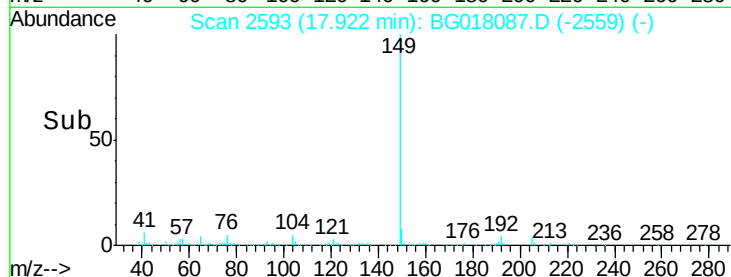
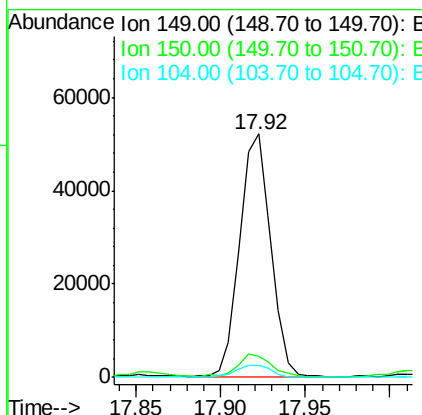
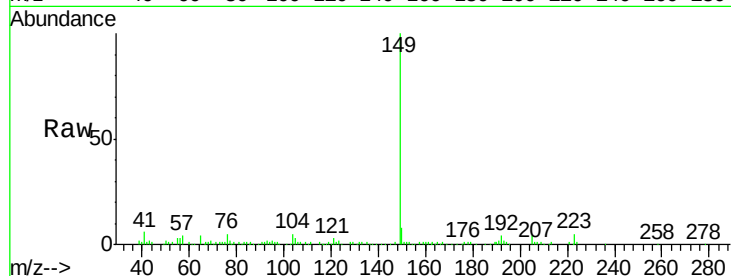




#76
Di-n-butylphthalate
Concen: 3.36 ng/ul
RT: 17.92 min Scan# 2593
Delta R.T. -0.00 min
Lab File: BG018087.D
Acq: 24 Jul 2015 4:27

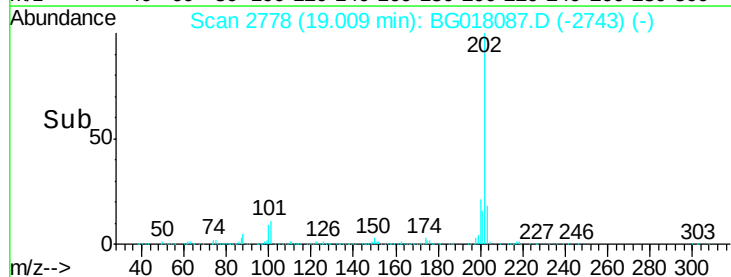
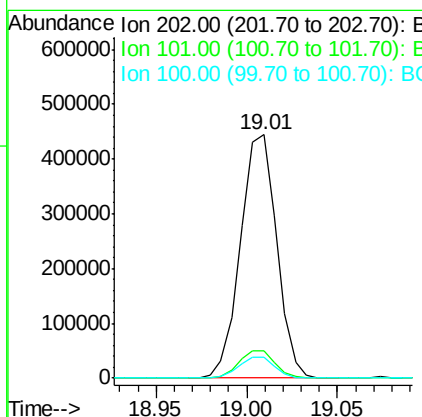
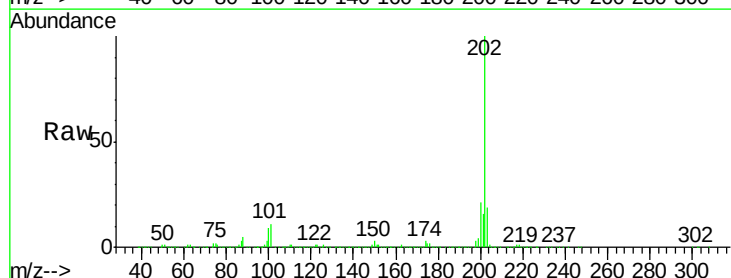
Instrument :
BNA_G
ClientSampleId :

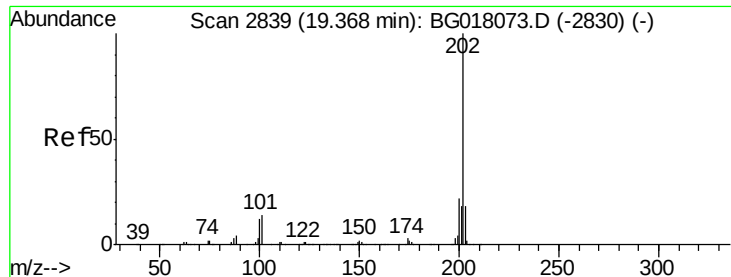
Tot Ion:149 Resp: 67259
Ion Ratio Lower Upper
149 100
150 8.5 7.4 11.0
104 5.2 3.8 5.8



#77
Fluoranthene
Concen: 33.57 ng/ul
RT: 19.01 min Scan# 2778
Delta R.T. 0.01 min
Lab File: BG018087.D
Acq: 24 Jul 2015 4:27

Tgt Ion:202 Resp: 617304
Ion Ratio Lower Upper
202 100
101 11.2 9.1 13.7
100 8.5 7.5 11.3

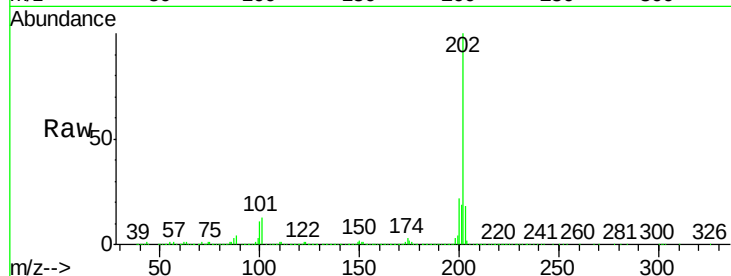




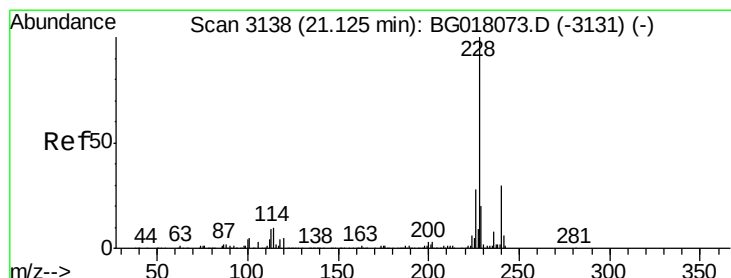
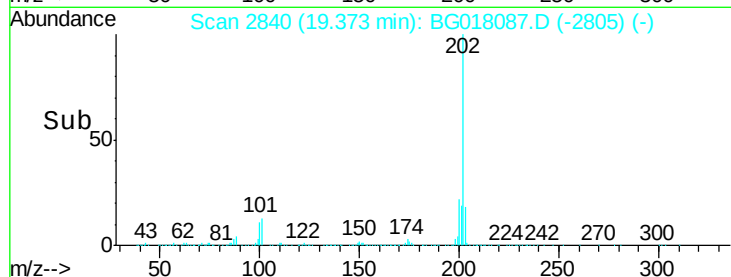
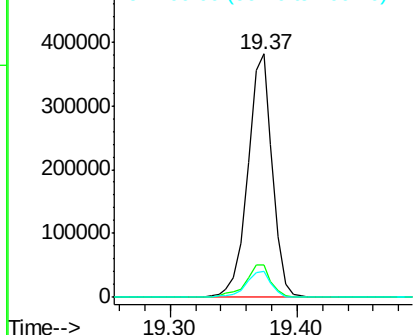
#80
Pvrene
Concen: 25.58 ng/ul
RT: 19.37 min Scan# 2840
Delta R.T. 0.01 min
Lab File: BG018087.D
Acq: 24 Jul 2015 4:27

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.1	10.9	16.3
100	10.6	8.5	12.7

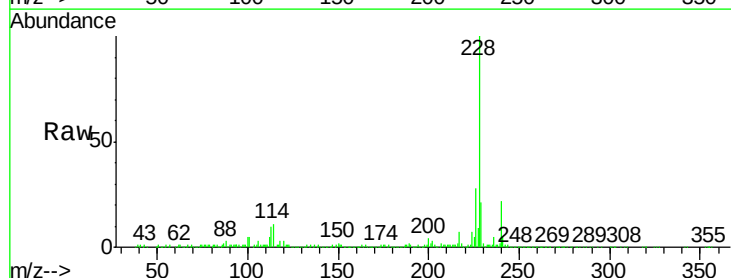


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B

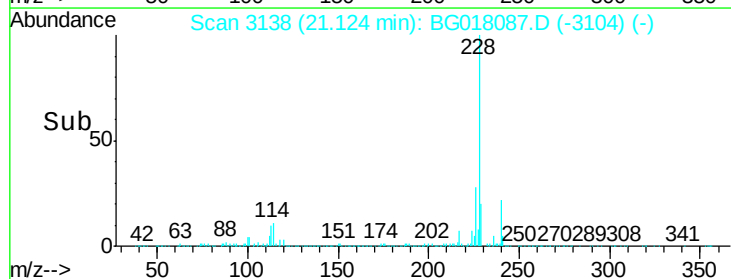
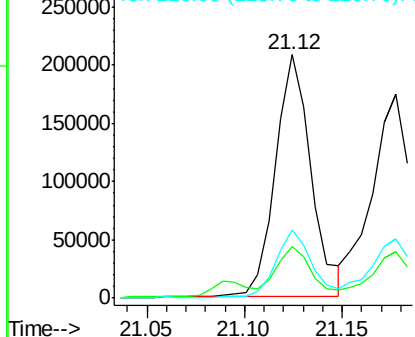


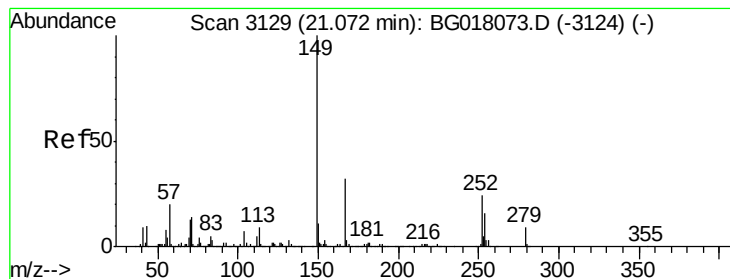
#83
Benzo(a)anthracene
Concen: 14.34 ng/ul
RT: 21.12 min Scan# 3138
Delta R.T. -0.00 min
Lab File: BG018087.D
Acq: 24 Jul 2015 4:27

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.0	16.6	24.8
226	28.2	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: 2.84 ng/ul

RT: 21.07 min Scan# 3129

Delta R.T. -0.00 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

Instrument :

BNA_G

ClientSampleId :

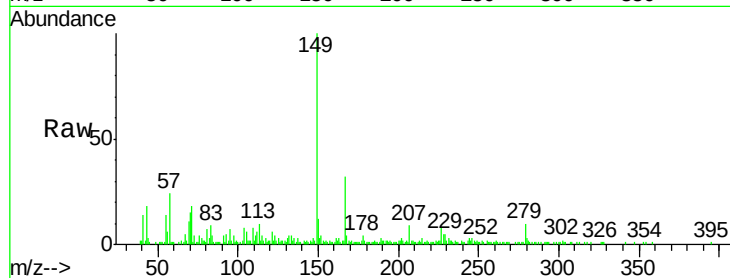
Tot Ion:149 Resp: 33197

Ion Ratio Lower Upper

149 100

167 32.2 26.2 39.4

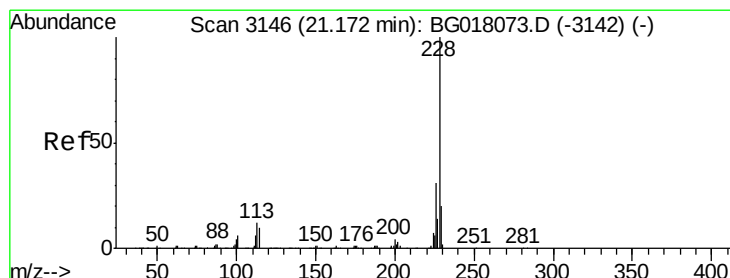
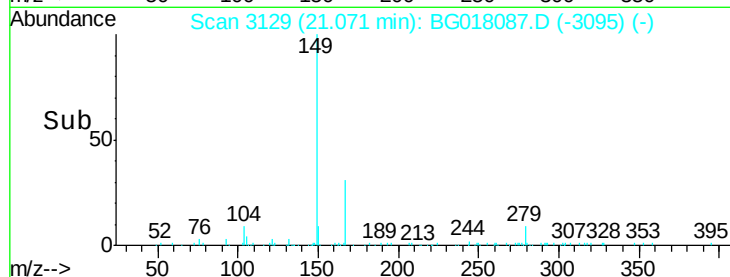
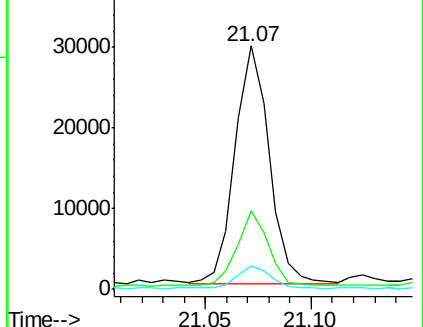
279 9.6 7.2 10.8



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: 13.93 ng/ul

RT: 21.18 min Scan# 3147

Delta R.T. 0.01 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

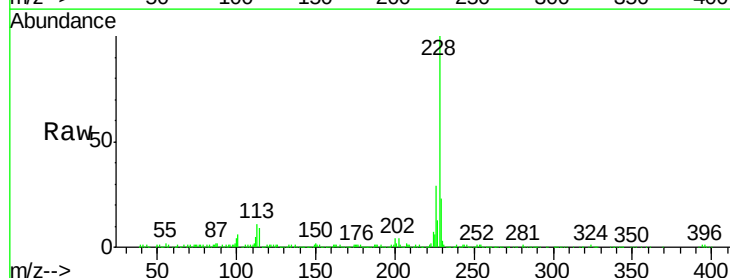
Tgt Ion:228 Resp: 241289

Ion Ratio Lower Upper

228 100

226 29.1 22.9 34.3

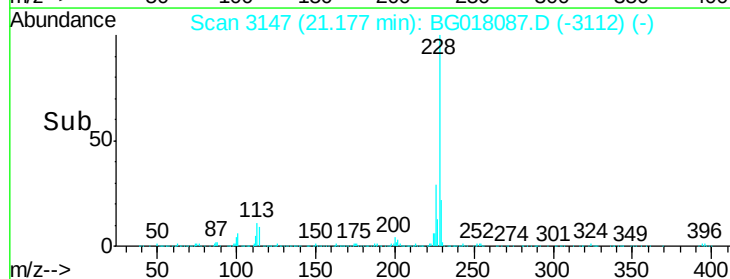
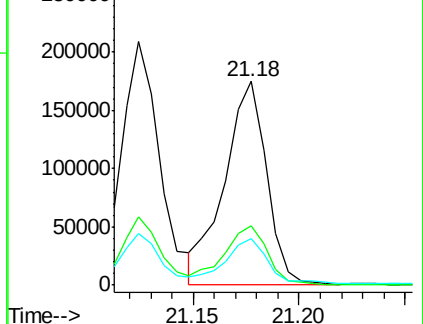
229 22.5 15.6 23.4

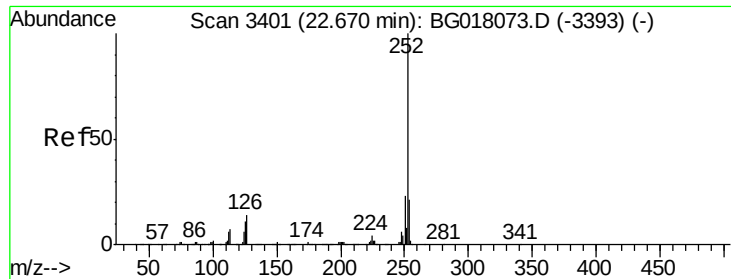


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 16.95 ng/ul

RT: 22.68 min Scan# 3402

Delta R.T. 0.01 min

Lab File: BG018087.D

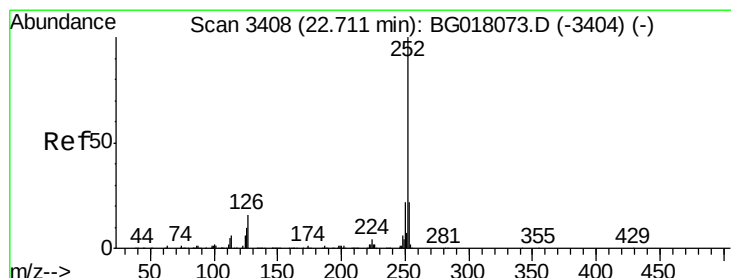
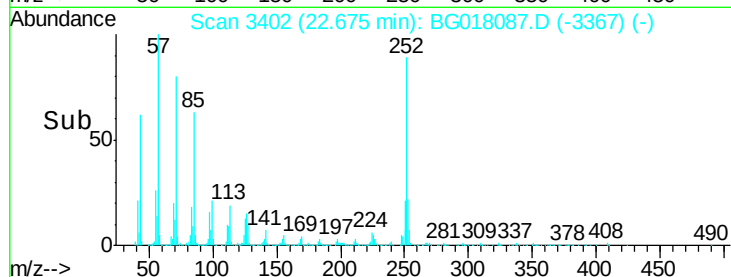
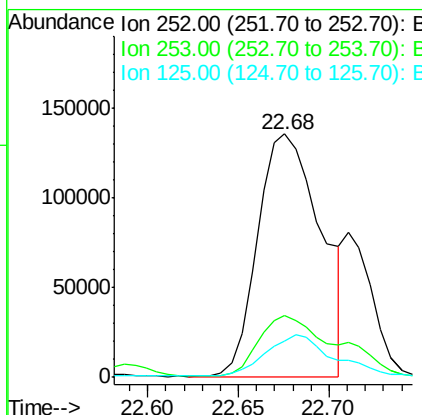
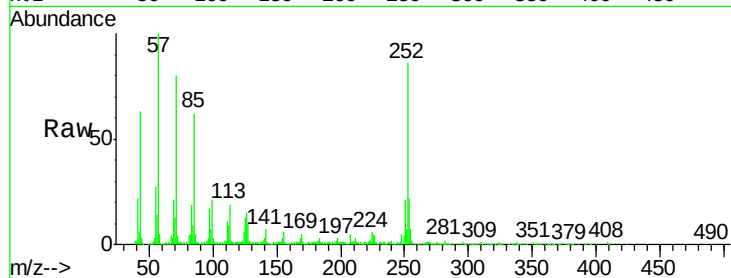
Acq: 24 Jul 2015 4:27

Instrument :

BNA_G

ClientSampleId :

Tot Ion:252	Resp:	329156
Ion Ratio	Lower	Upper
252	100	
253	25.6	18.5 27.7
125	15.0	9.1 13.7#



#89

Benzo(k)fluoranthene

Concen: 17.52 ng/ul

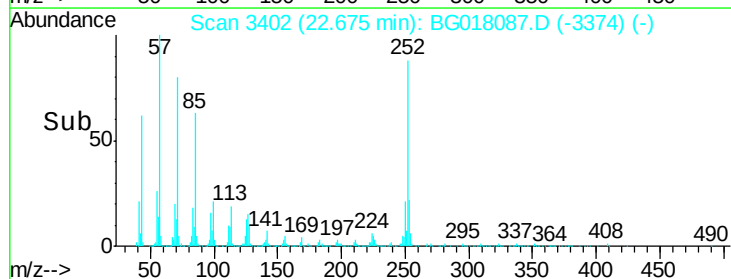
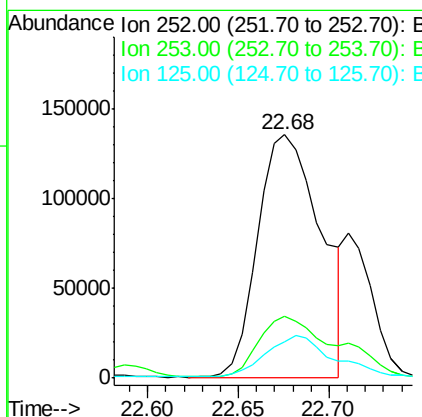
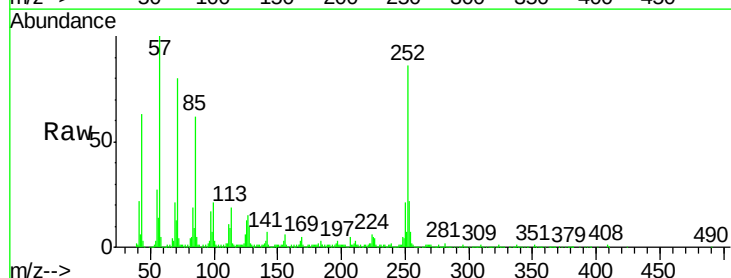
RT: 22.68 min Scan# 3402

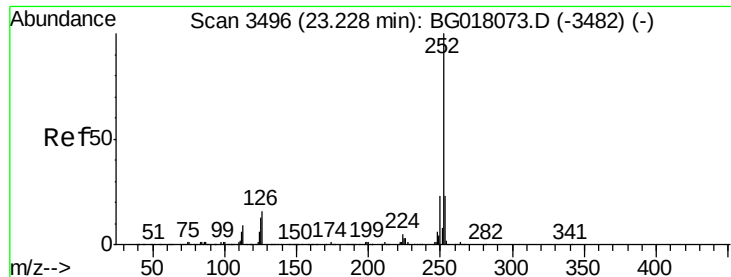
Delta R.T. -0.04 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

Tgt Ion:252	Resp:	329156
Ion Ratio	Lower	Upper
252	100	
253	25.6	17.8 26.8
125	15.0	9.3 13.9#





#91

Benzo(a)pyrene

Concen: 11.21 ng/ul

RT: 23.23 min Scan# 3497

Delta R.T. 0.01 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

Instrument :

BNA_G

ClientSampleId :

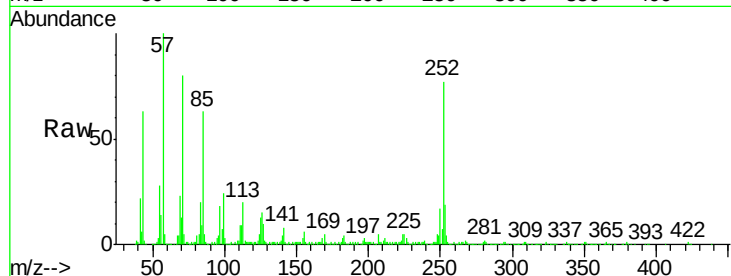
Tot Ion:252 Resp: 210871

Ion Ratio Lower Upper

252 100

253 24.5 18.0 27.0

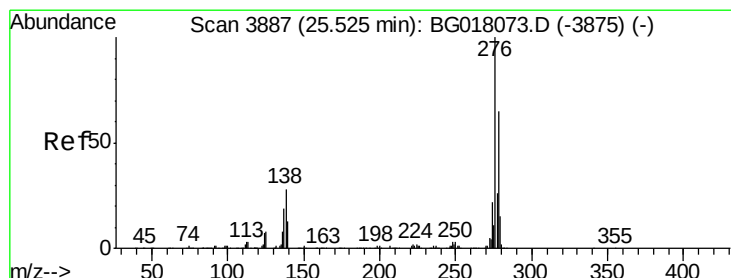
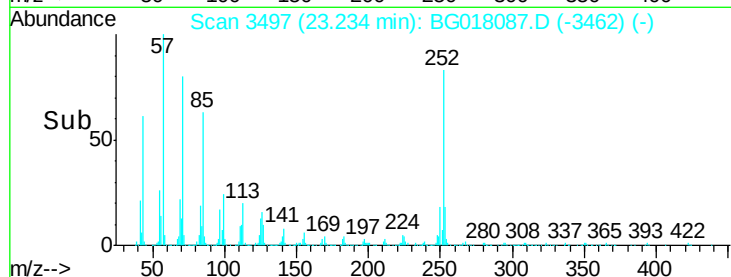
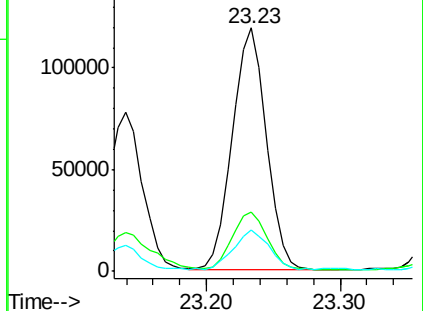
125 16.9 10.2 15.2#



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: 6.41 ng/ul

RT: 25.54 min Scan# 3889

Delta R.T. 0.01 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

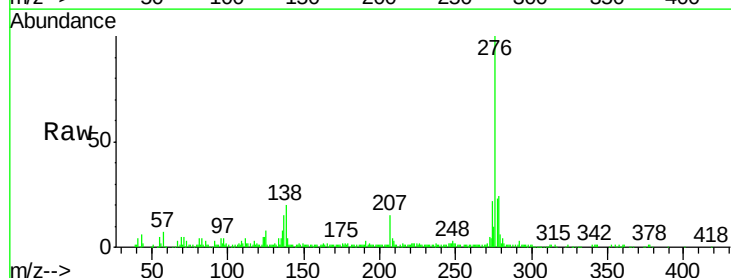
Tgt Ion:276 Resp: 139011

Ion Ratio Lower Upper

276 100

138 20.3 22.6 33.8#

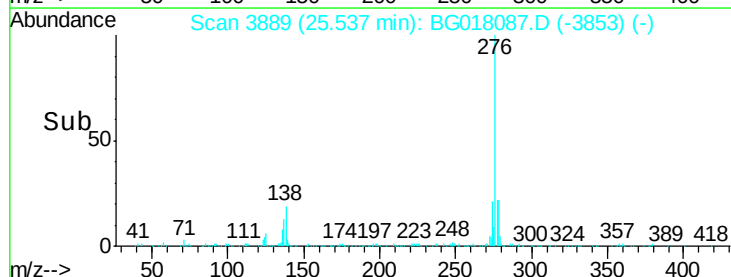
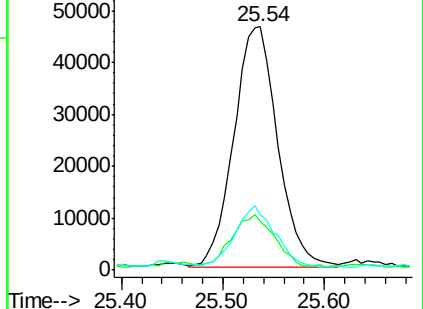
277 22.9 19.8 29.8

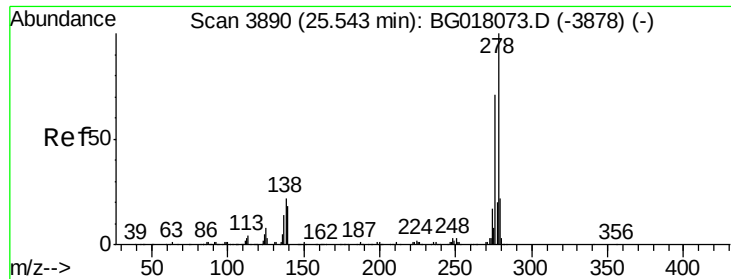


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 2.05 ng/ul

RT: 25.54 min Scan# 3889

Delta R.T. -0.01 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

Instrument :

BNA_G

ClientSampleId :

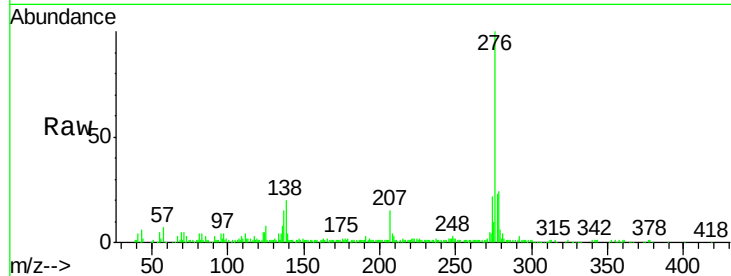
Tot Ion:278 Resp: 37964

Ion Ratio Lower Upper

278 100

139 17.6 13.7 20.5

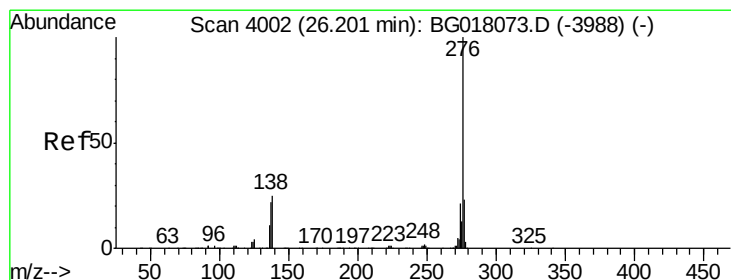
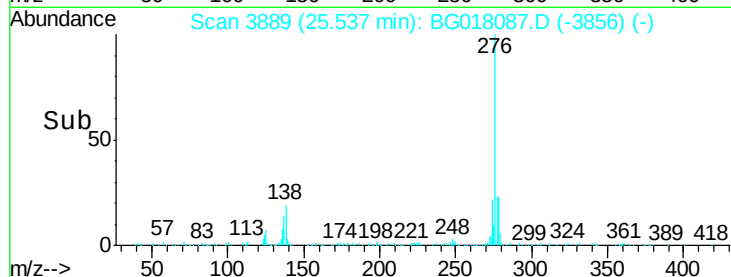
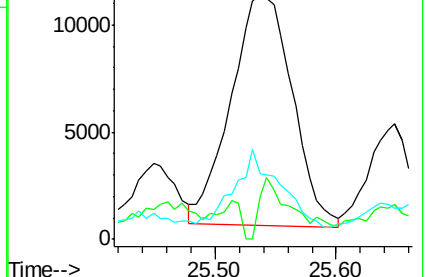
279 26.8 18.1 27.1



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: 3.55 ng/ul

RT: 26.21 min Scan# 4003

Delta R.T. 0.01 min

Lab File: BG018087.D

Acq: 24 Jul 2015 4:27

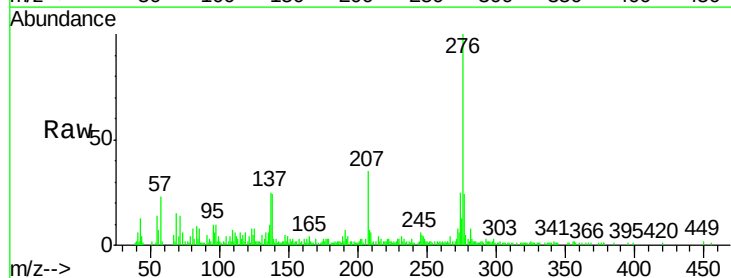
Tgt Ion:276 Resp: 63564

Ion Ratio Lower Upper

276 100

138 23.6 18.8 28.2

277 24.0 19.3 28.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

