

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
 Data File : BG017784.D
 Acq On : 7 Jul 2015 00:16
 Operator : TP/UM
 Sample : G2860-15 10X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleID :
 G93K0

Manual Integrations
 APPROVED

apatel
 7/7/2015 1:31:41 PM

Quant Time: Jul 07 04:05:56 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jul 07 01:50:10 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	83301	20.00	ng/ul	0.00
18) Naphthalene-d8	10.38	136	395500	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.26	164	246134	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.01	188	496024	20.00	ng/ul	0.00
77) Chrysene-d12	21.21	240	523280	20.00	ng/ul	0.00
85) Perylene-d12	23.44	264	525659	20.00	ng/ul	0.01

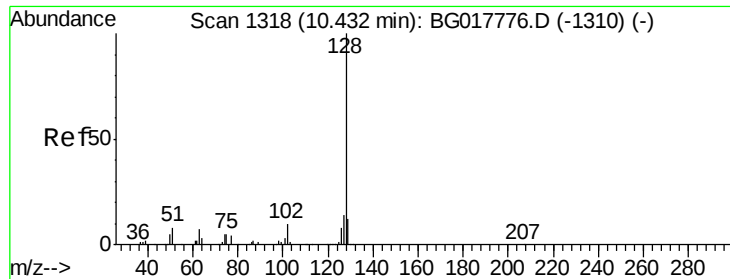
System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0d	0.00	ng/uL	
5) Phenol-d5	6.78	99	10791	1.53	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.95	67	6307	1.50	ng/ul	0.00
9) 2-Chlorophenol-d4	7.14	132	9363	1.56	ng/ul	0.00
13) 4-Methylphenol-d8	8.31	113	10301	1.79	ng/ul	0.00
19) Nitrobenzene-d5	8.76	128	5029	1.70	ng/ul	0.00
22) 2-Nitrophenol-d4	9.47	143	4801	1.62	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.01	165	8523	1.51	ng/ul	0.00
29) 4-Chloroaniline-d4	10.53	131	8514	1.11	ng/ul	0.00
43) Dimethylphthalate-d6	13.67	166	25395	1.56	ng/ul	0.00
46) Acenaphthylene-d8	13.95	160	30823	1.40	ng/ul	0.00
51) 4-Nitrophenol-d4	14.47	143	3175	0.97	ng/ul	0.00
57) Fluorene-d10	15.25	176	24382	1.47	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.37	200	253	0.11	ng/ul	0.00
70) Anthracene-d10	17.11	188	32778	1.45	ng/ul	0.00
78) Pyrene-d10	19.41	212	29961	1.20	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.29	264	23755	1.03	ng/ul	0.00

Target Compounds

						Qvalue
28) Naphthalene	10.44	128	895331	43.75	ng/ul	99
34) 2-Methylnaphthalene	12.06	142	247519	17.04	ng/ul	92
40) 1,1'-Biphenyl	13.09	154	60008	3.29	ng/ul	98
47) Acenaphthylene	13.97	152	146985	6.12	ng/ul	98
49) Acenaphthene	14.32	153	225913	13.97	ng/ul	97
53) Dibenzofuran	14.66	168	421276	19.32	ng/ul	99
58) Fluorene	15.31	166	567106	29.28	ng/ul	99
69) Phenanthrene	17.06	178	2820507	104.04	ng/ul#	81
71) Anthracene	17.15	178	1058371	37.96	ng/ul	97
74) Carbazole	17.42	167	410707	17.69	ng/ul	99
76) Fluoranthene	19.09	202	2243997	85.91	ng/ul#	92
79) Pyrene	19.45	202	2159900	67.64	ng/ul#	92
82) Benzo(a)anthracene	21.19	228	1286131	44.61	ng/ul#	93
84) Chrysene	21.25	228	1142837m	41.85	ng/ul	
87) Benzo(b)fluoranthene	22.78	252	1135732	37.80	ng/ul#	93
88) Benzo(k)fluoranthene	22.80	252	398473m	14.07	ng/ul	
90) Benzo(a)pyrene	23.34	252	905151	31.70	ng/ul	97
91) Indeno(1,2,3-cd)pyrene	25.70	276	398441	12.78	ng/ul	95
92) Dibenzo(a,h)anthracene	25.70	278	148073	5.62	ng/ul#	74
93) Benzo(g,h,i)perylene	26.38	276	333678	12.79	ng/ul	96

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



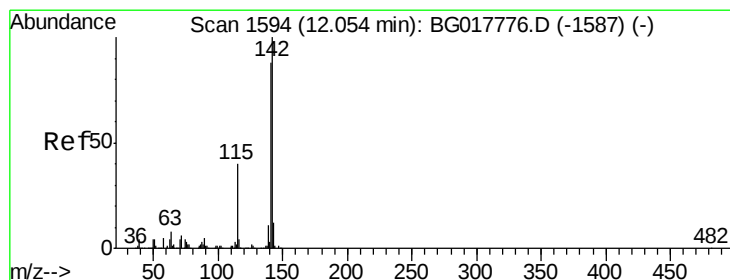
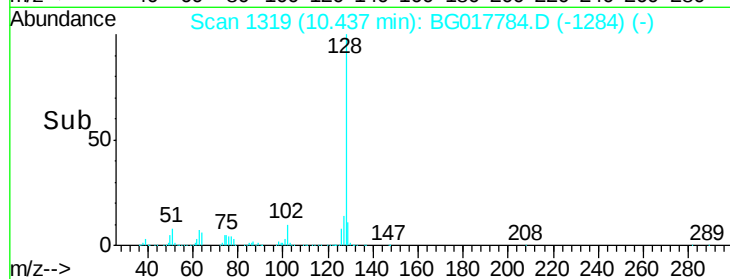
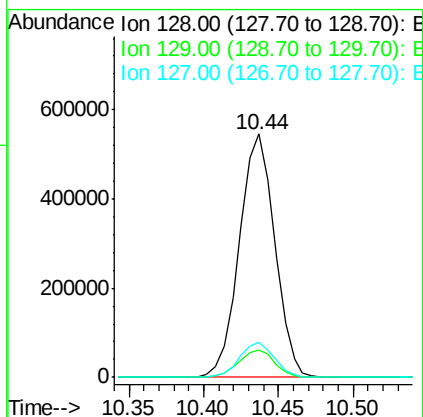
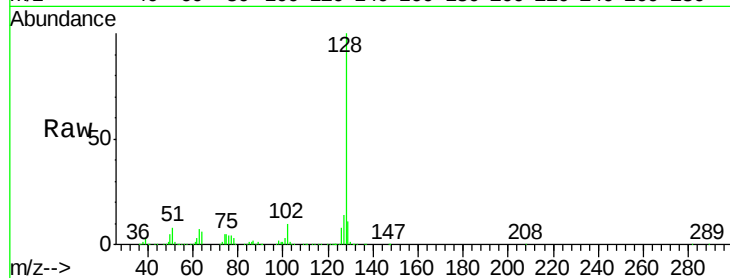
#28
Naphthalene
Concen: 43.75 ng/ul
RT: 10.44 min Scan# 1319
Delta R.T. 0.00 min
Lab File: BG017784.D
Acq: 7 Jul 2015 00:16

Instrument :
BNA_G
ClientSampleId :
G93K0

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	895331		
129	11.4	8.7	13.1	
127	14.3	11.0	16.6	

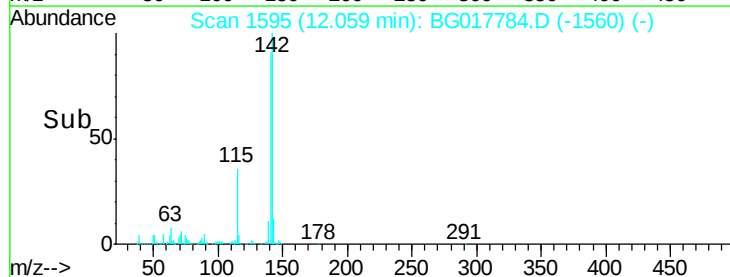
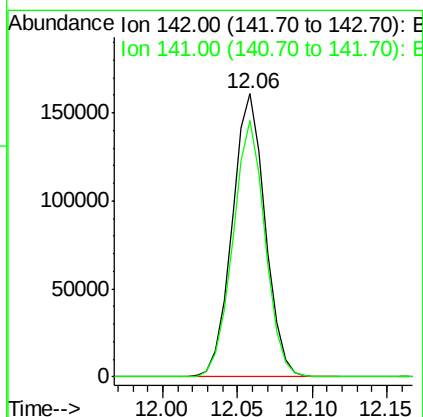
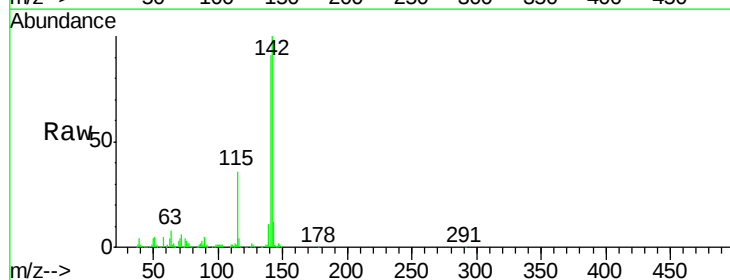
Manual Integrations
APPROVED

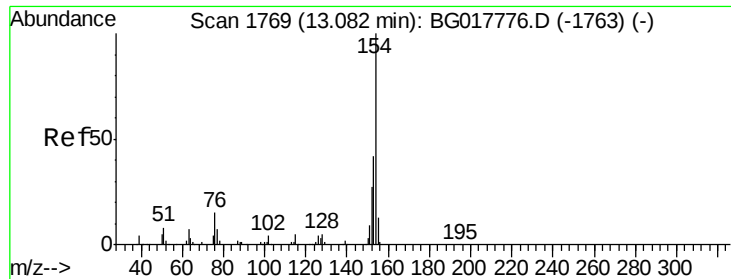
apatel
7/7/2015 1:31:41 PM



#34
2-Methylnaphthalene
Concen: 17.04 ng/ul
RT: 12.06 min Scan# 1595
Delta R.T. 0.00 min
Lab File: BG017784.D
Acq: 7 Jul 2015 00:16

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	247519		
141	90.5	66.6	100.0	





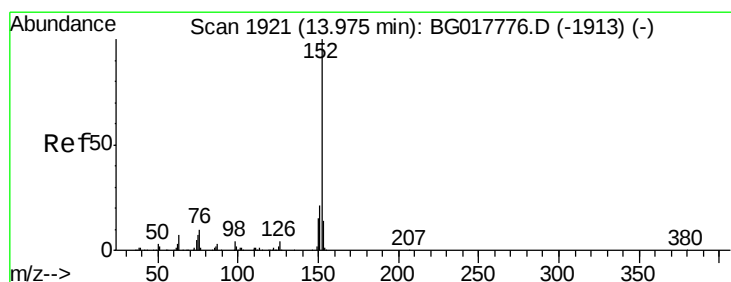
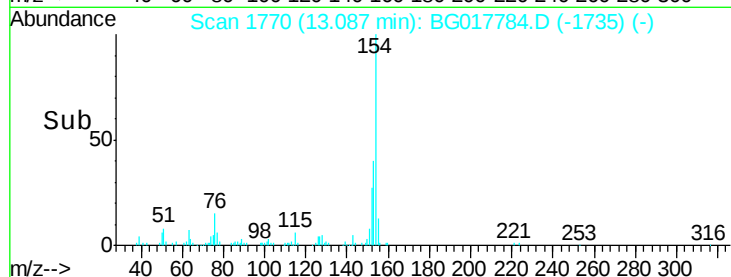
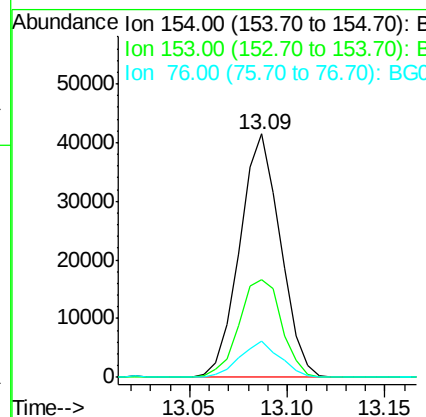
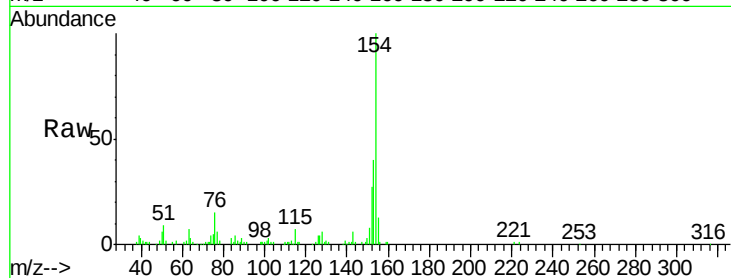
#40
 1,1'-Biphenyl
 Concen: 3.29 ng/ul
 RT: 13.09 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: BG017784.D
 Acq: 7 Jul 2015 00:16

Instrument :
 BNA_G
 ClientSampleId :
 G93K0

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.3	33.3	49.9
76	15.0	12.4	18.6

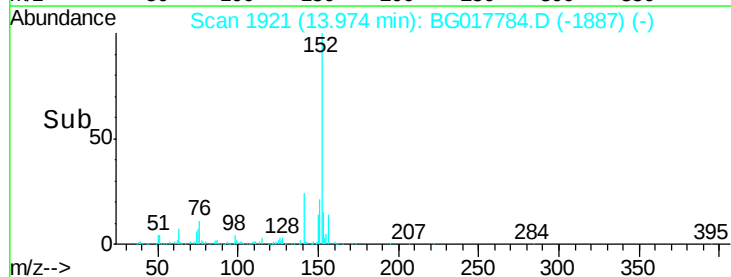
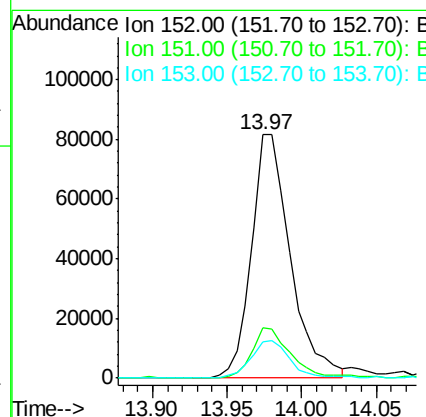
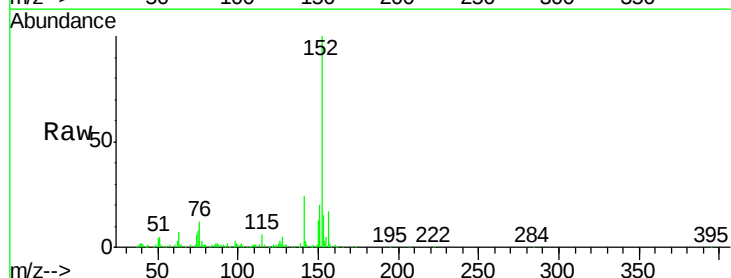
Manual Integrations
 APPROVED

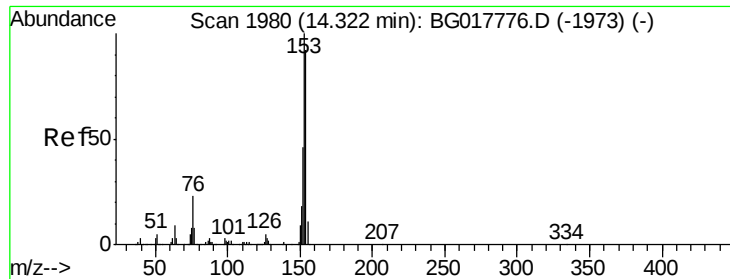
apatel
 7/7/2015 1:31:41 PM



#47
 Acenaphthylene
 Concen: 6.12 ng/ul
 RT: 13.97 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: BG017784.D
 Acq: 7 Jul 2015 00:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.0	25.6
153	15.1	11.2	16.8





#49

Acenaphthene

Concen: 13.97 ng/ul

RT: 14.32 min Scan# 1980

Delta R.T. -0.00 min

Lab File: BG017784.D

Acq: 7 Jul 2015 00:16

Instrument :

BNA_G

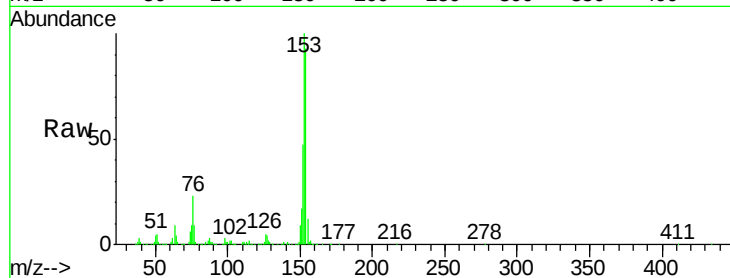
ClientSampleId :

G93K0

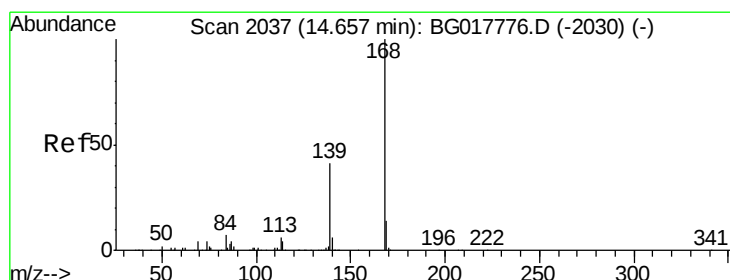
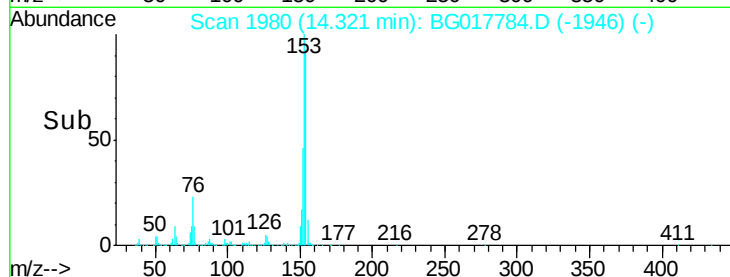
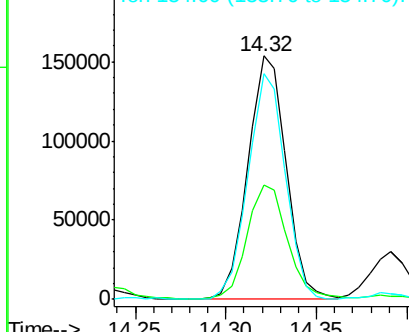
Tgt Ion:	153	Resp:	225913
Ion Ratio	Lower	Upper	
153	100		
152	46.8	37.8	56.6
154	92.8	71.2	106.8

Manual Integrations
APPROVED

apatel
7/7/2015 1:31:41 PM



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 19.32 ng/ul

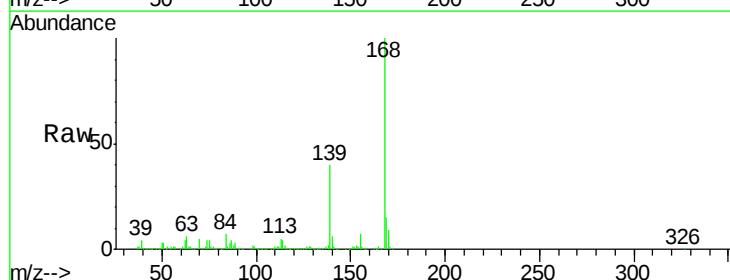
RT: 14.66 min Scan# 2038

Delta R.T. 0.00 min

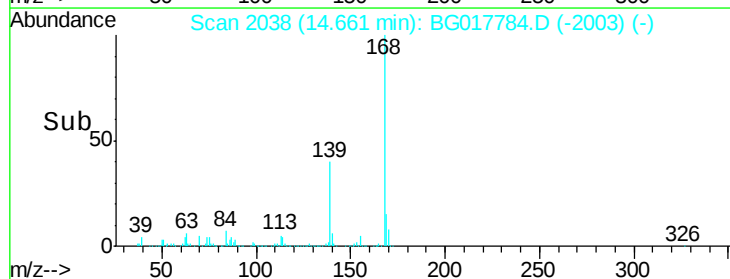
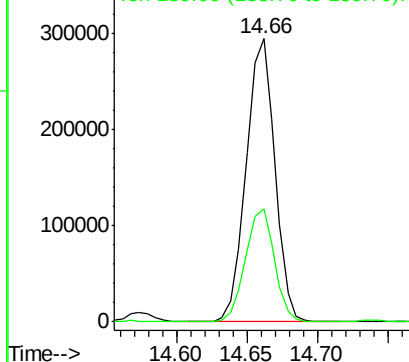
Lab File: BG017784.D

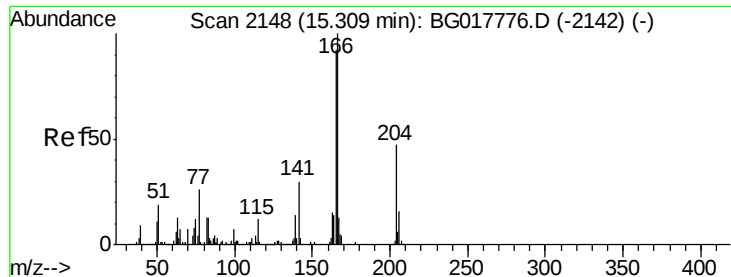
Acq: 7 Jul 2015 00:16

Tgt Ion:	168	Resp:	421276
Ion Ratio	Lower	Upper	
168	100		
139	40.0	32.7	49.1



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





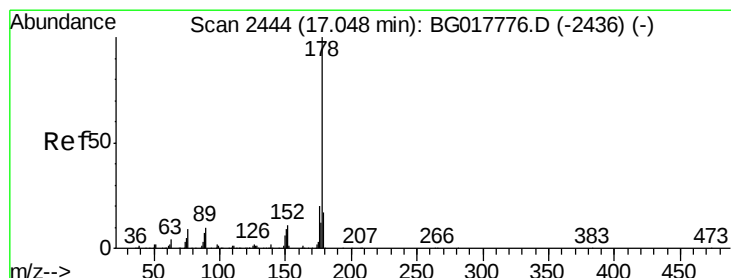
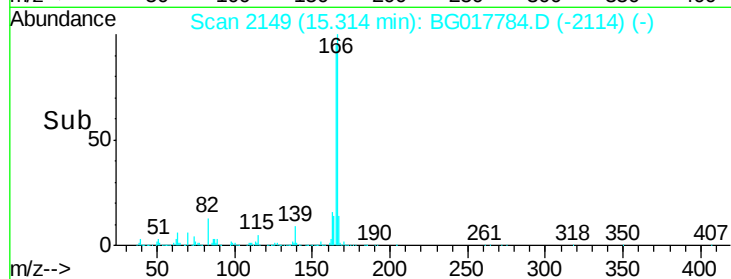
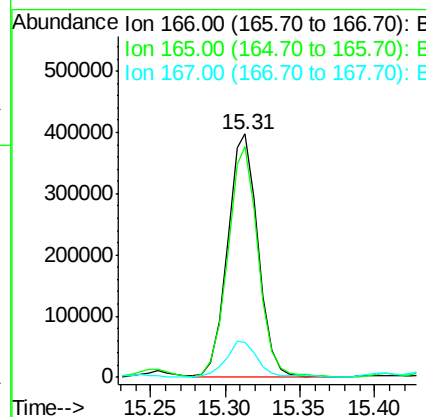
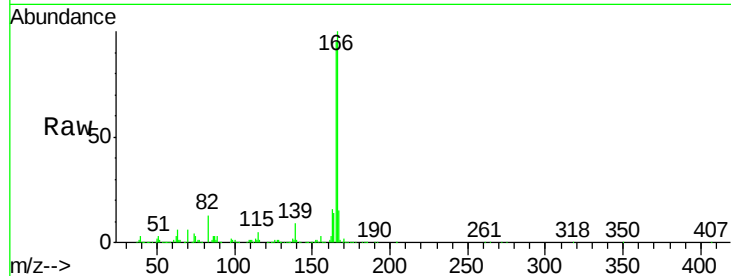
#58
 Fluorene
 Concen: 29.28 ng/ul
 RT: 15.31 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: BG017784.D
 Acq: 7 Jul 2015 00:16

Instrument :
 BNA_G
 ClientSampleId :
 G93K0

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.7	75.7	113.5
167	14.6	10.1	15.1

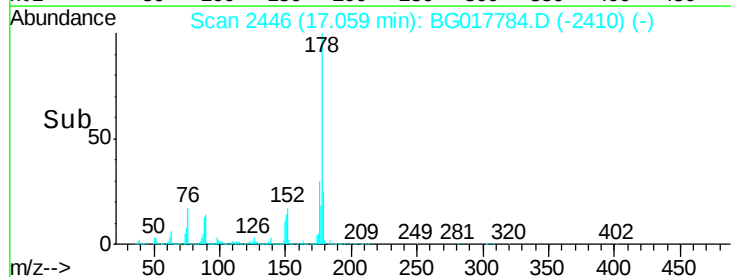
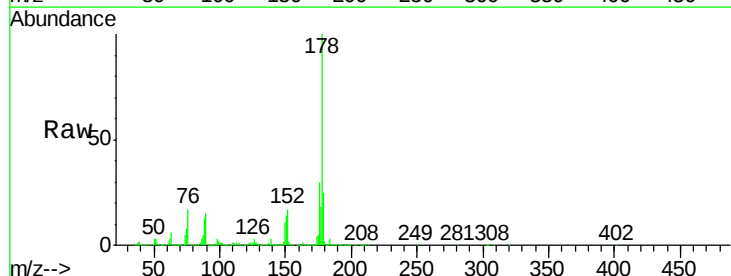
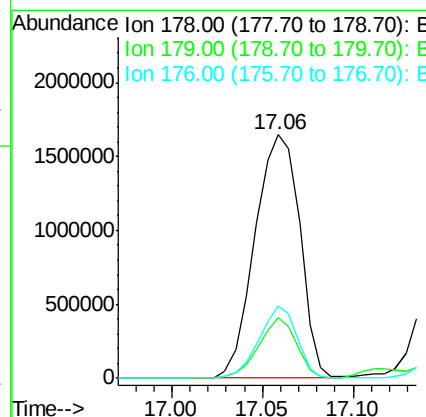
Manual Integrations
 APPROVED

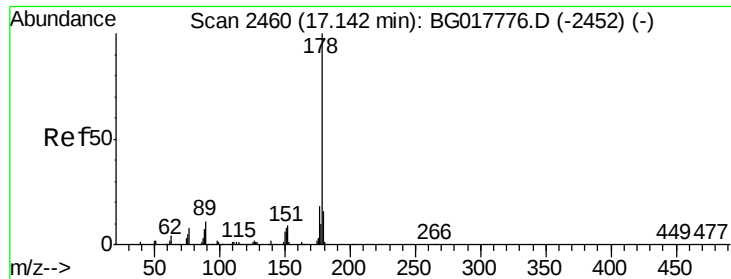
apatel
 7/7/2015 1:31:41 PM



#69
 Phenanthrene
 Concen: 104.04 ng/ul
 RT: 17.06 min Scan# 2446
 Delta R.T. 0.01 min
 Lab File: BG017784.D
 Acq: 7 Jul 2015 00:16

Tgt Ion	Ratio	Lower	Upper
178	100		
179	24.9	13.0	19.4#
176	29.7	17.0	25.4#





#71

Anthracene

Concen: 37.96 ng/ul

RT: 17.15 min Scan# 2461

Delta R.T. 0.00 min

Lab File: BG017784.D

Acq: 7 Jul 2015 00:16

Instrument :

BNA_G

ClientSampleId :

G93K0

Tgt Ion:178 Resp: 1058371

Ion Ratio Lower Upper

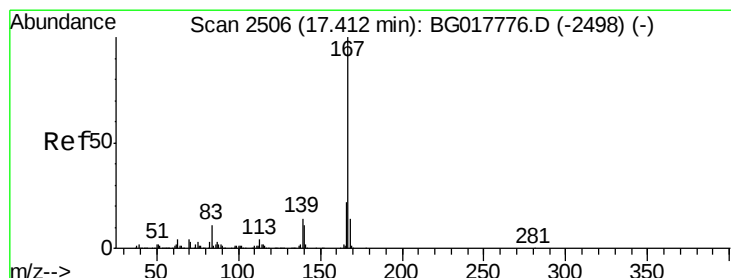
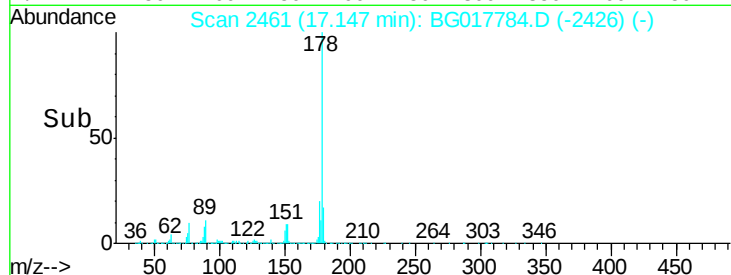
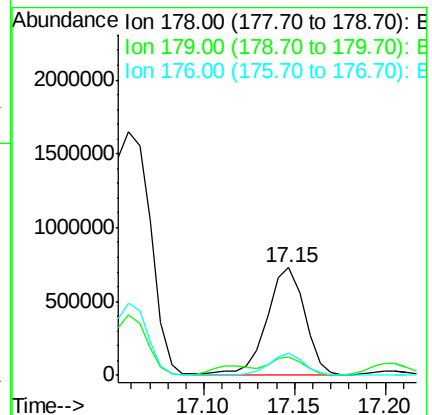
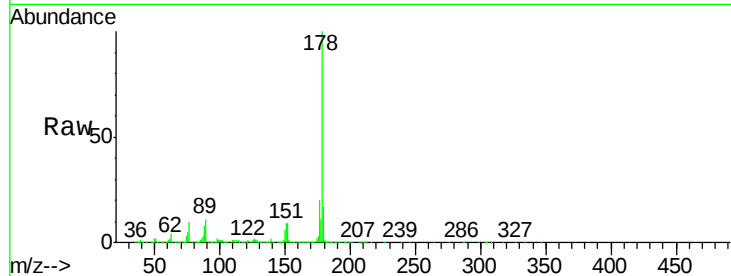
178 100

179 17.2 12.4 18.6

176 20.3 15.3 22.9

Manual Integrations
APPROVED

apatel
7/7/2015 1:31:41 PM



#74

Carbazole

Concen: 17.69 ng/ul

RT: 17.42 min Scan# 2507

Delta R.T. 0.00 min

Lab File: BG017784.D

Acq: 7 Jul 2015 00:16

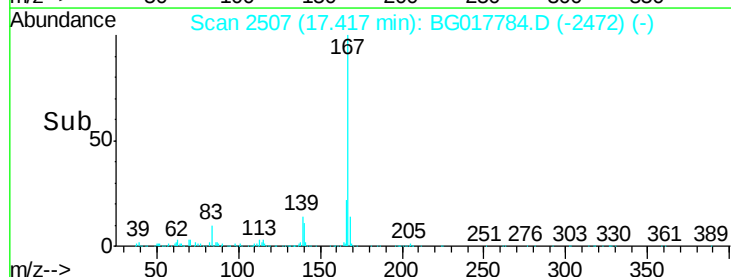
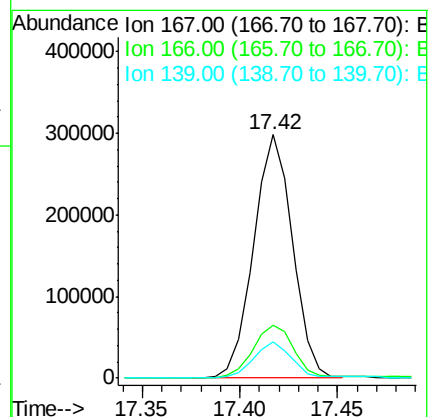
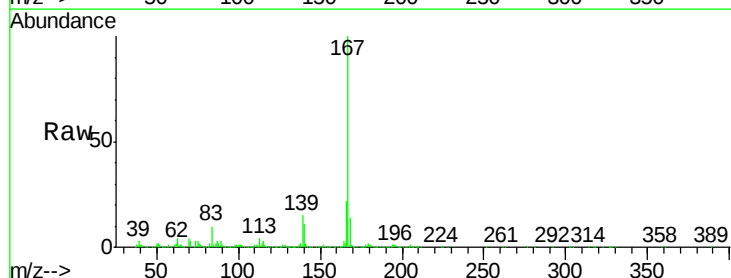
Tgt Ion:167 Resp: 410707

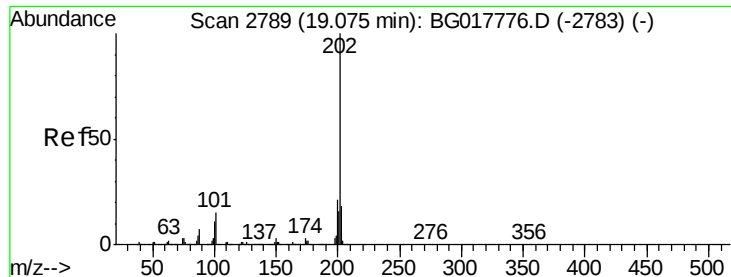
Ion Ratio Lower Upper

167 100

166 21.9 18.0 27.0

139 14.6 11.4 17.0





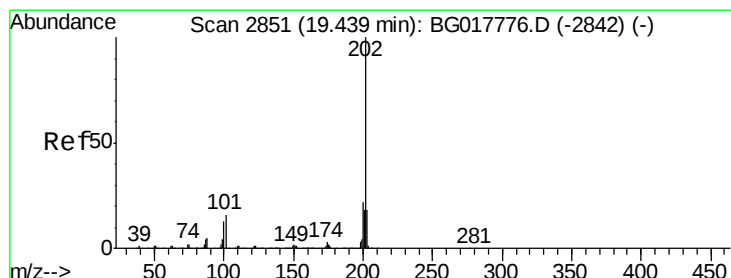
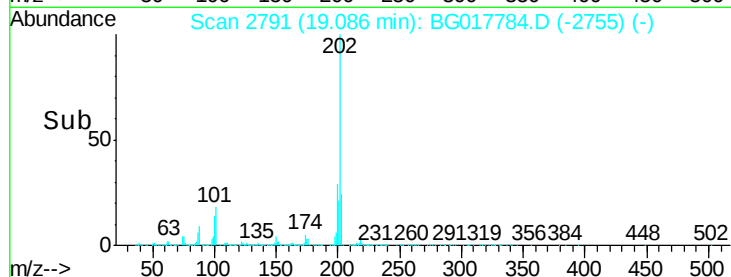
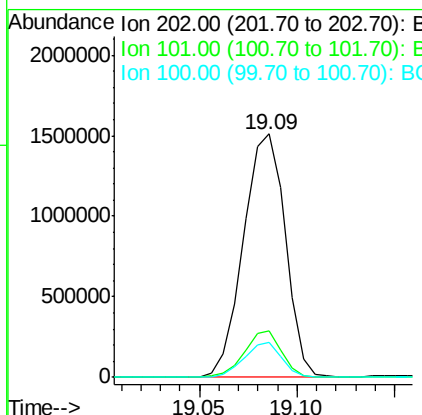
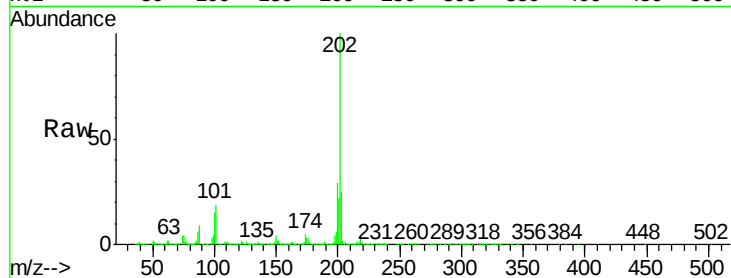
#76
Fluoranthene
Concen: 85.91 ng/ul
RT: 19.09 min Scan# 2791
Delta R.T. 0.01 min
Lab File: BG017784.D
Acq: 7 Jul 2015 00:16

Instrument :
BNA_G
ClientSampleId :
G93K0

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2243997		
101	19.1	12.6	18.8#	
100	14.6	9.1	13.7#	

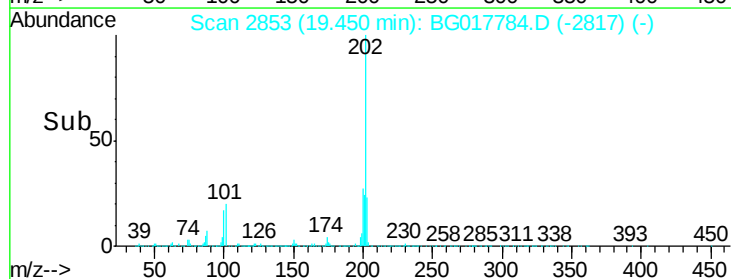
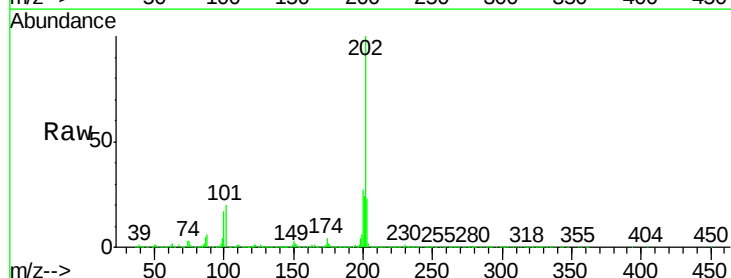
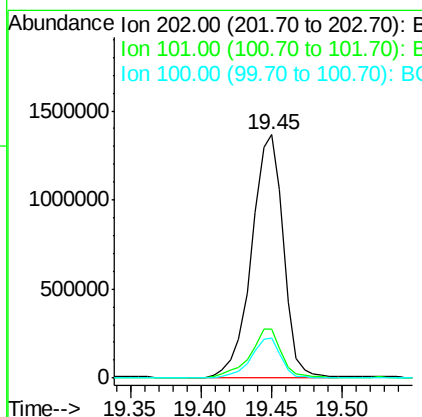
Manual Integrations
APPROVED

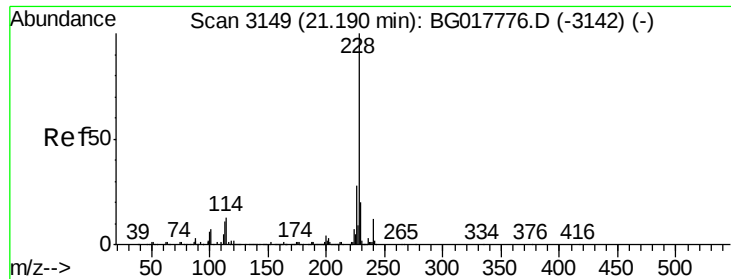
apatel
7/7/2015 1:31:41 PM



#79
Pyrene
Concen: 67.64 ng/ul
RT: 19.45 min Scan# 2853
Delta R.T. 0.01 min
Lab File: BG017784.D
Acq: 7 Jul 2015 00:16

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2159900		
101	20.1	13.1	19.7#	
100	16.7	11.3	16.9	





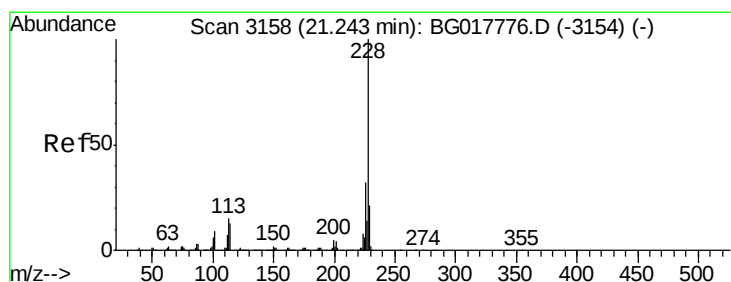
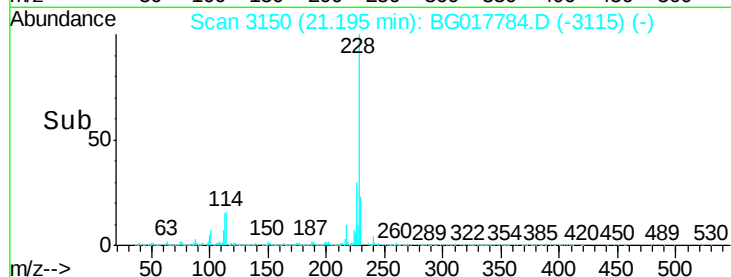
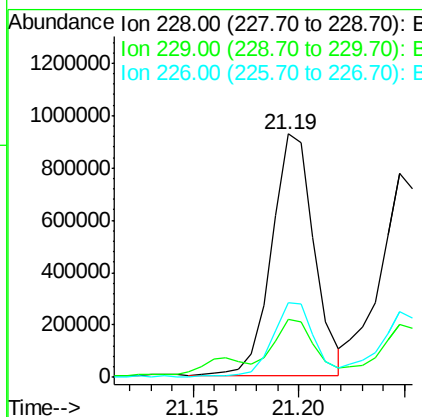
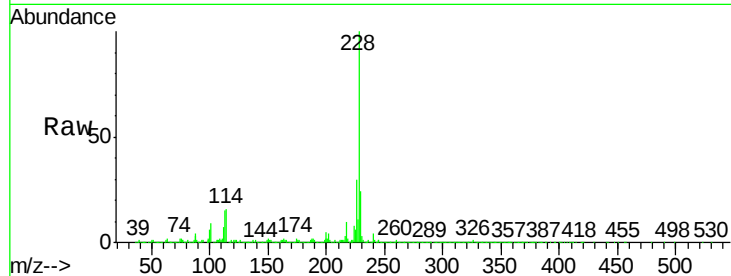
#82
Benzo(a)anthracene
Concen: 44.61 ng/ul
RT: 21.19 min Scan# 3150
Delta R.T. 0.00 min
Lab File: BG017784.D
Acq: 7 Jul 2015 00:16

Instrument :
BNA_G
ClientSampleId :
G93K0

Tgt Ion	Ratio	Lower	Upper
228	100		
229	23.8	15.8	23.8#
226	30.4	22.2	33.2

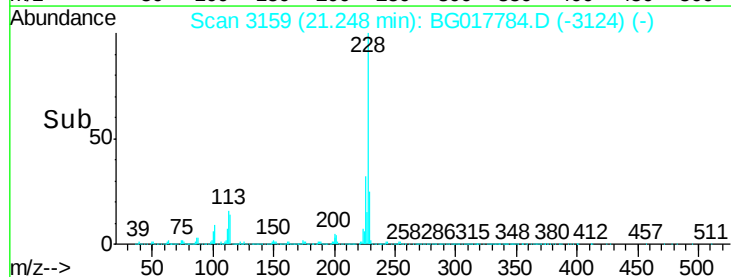
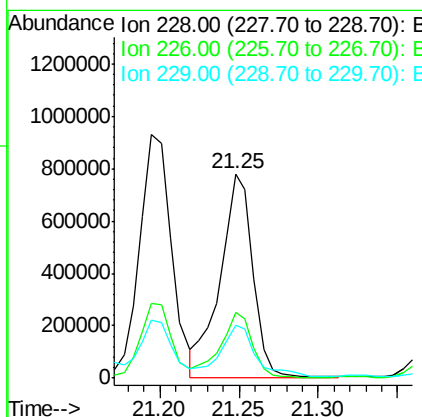
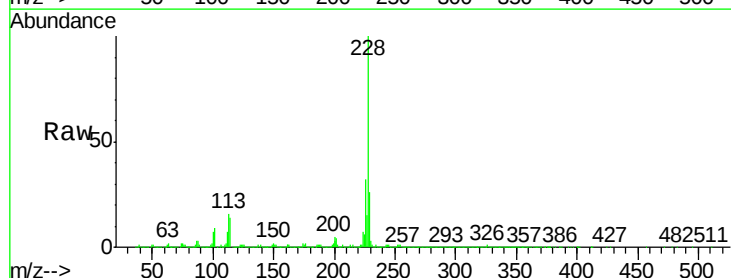
Manual Integrations
APPROVED

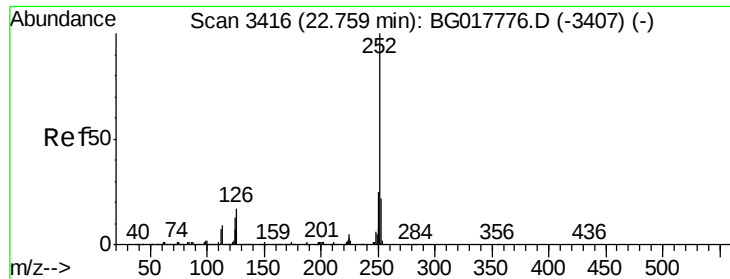
apatel
7/7/2015 1:31:41 PM



#84
Chrysene
Concen: 41.85 ng/ul m
RT: 21.25 min Scan# 3159
Delta R.T. 0.00 min
Lab File: BG017784.D
Acq: 7 Jul 2015 00:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.6	38.4
229	25.8	16.4	24.6#





#87

Benzo(b)fluoranthene

Concen: 37.80 ng/ul

RT: 22.78 min Scan# 3419

Delta R.T. 0.02 min

Lab File: BG017784.D

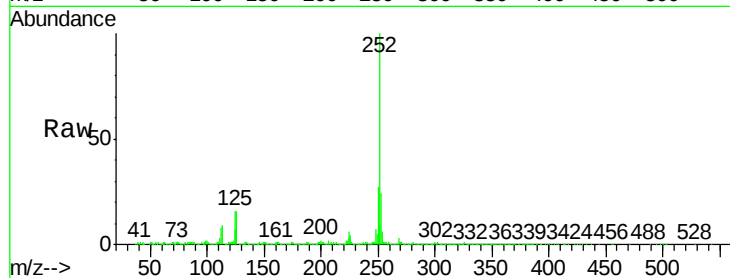
Acq: 7 Jul 2015 00:16

Instrument :

BNA_G

ClientSampleId :

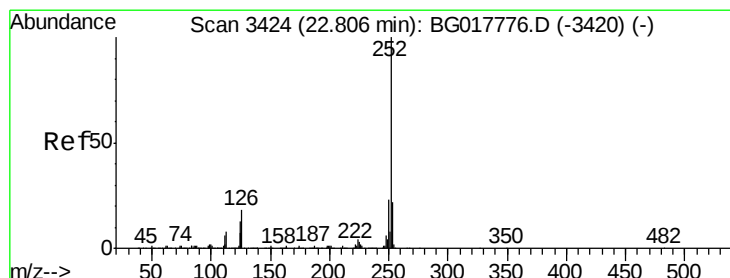
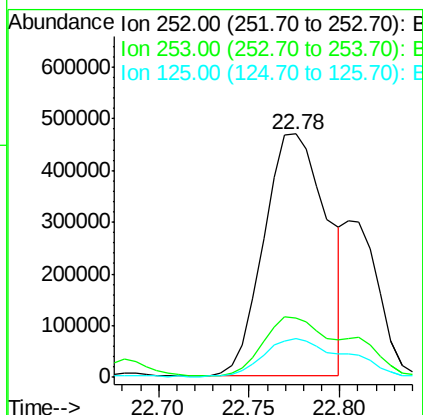
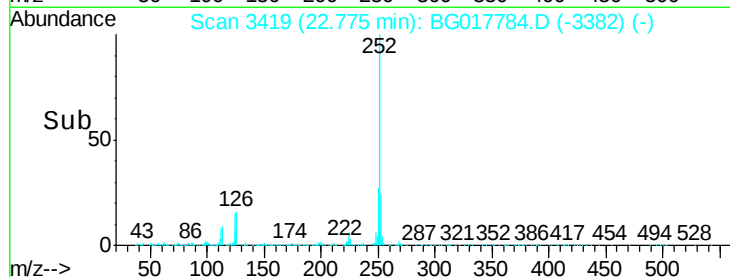
G93K0



Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	16.8	25.2
125	15.9	10.4	15.6

Manual Integrations
APPROVED

apatel
7/7/2015 1:31:41 PM



#88

Benzo(k)fluoranthene

Concen: 14.07 ng/ul m

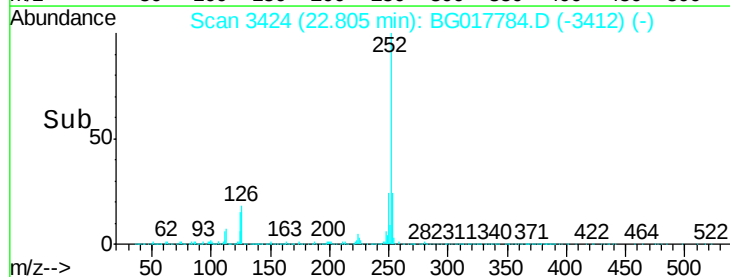
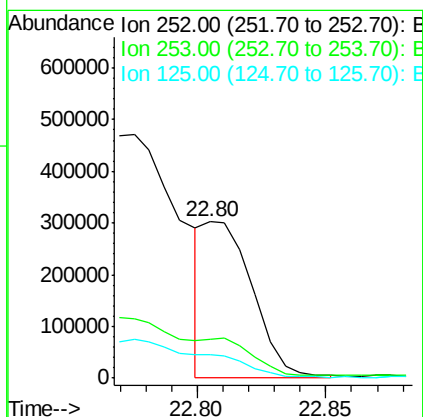
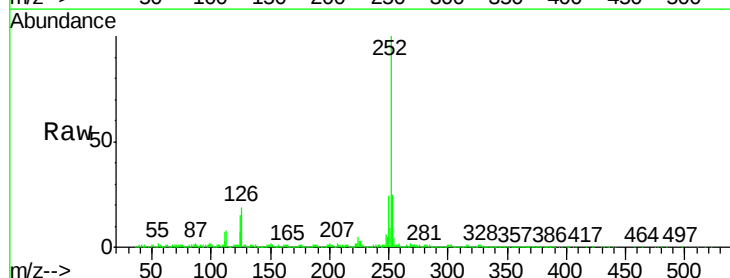
RT: 22.80 min Scan# 3424

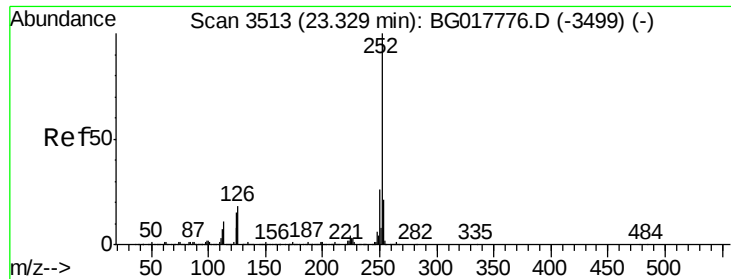
Delta R.T. -0.00 min

Lab File: BG017784.D

Acq: 7 Jul 2015 00:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.6	26.4
125	15.2	11.6	17.4





#90

Benzo(a)pyrene

Concen: 31.70 ng/ul

RT: 23.34 min Scan# 3515

Delta R.T. 0.01 min

Lab File: BG017784.D

Acq: 7 Jul 2015 00:16

Instrument :

BNA_G

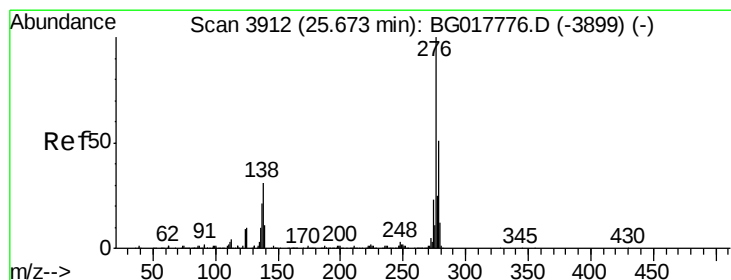
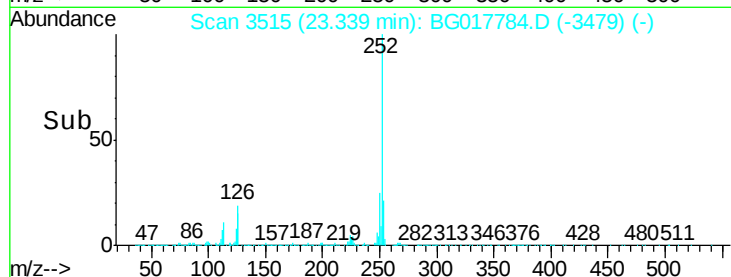
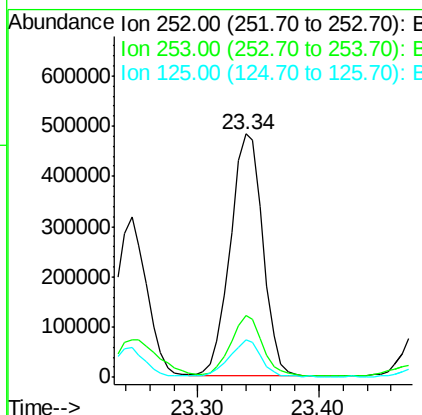
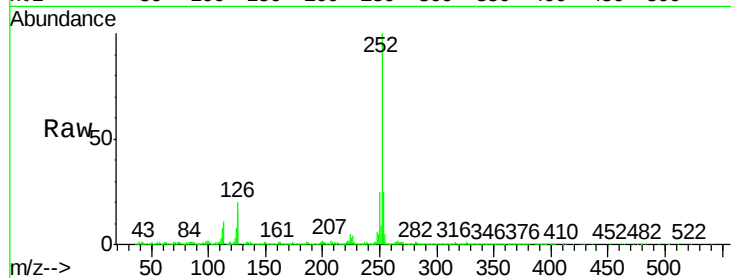
ClientSampleId :

G93K0

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	905151		
253	25.2	18.3	27.5	
125	15.3	12.1	18.1	

Manual Integrations
APPROVED

apatel
7/7/2015 1:31:41 PM



#91

Indeno(1,2,3-cd)pyrene

Concen: 12.78 ng/ul

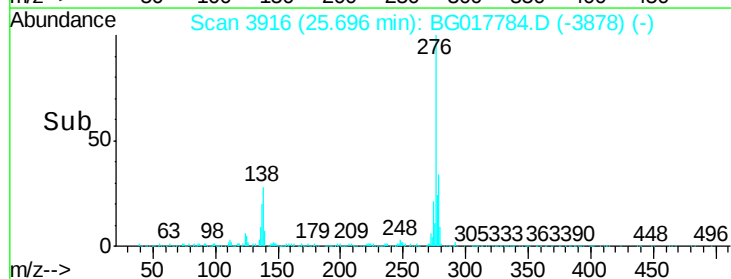
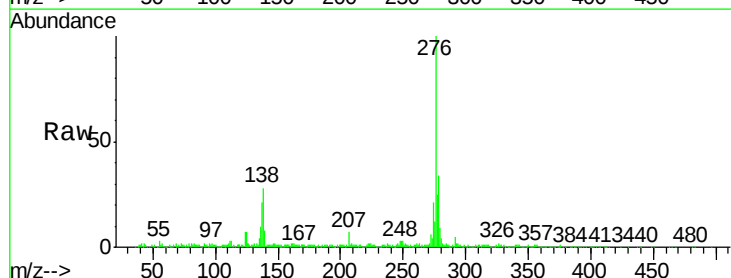
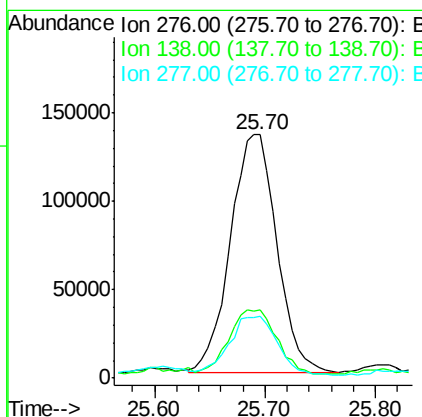
RT: 25.70 min Scan# 3916

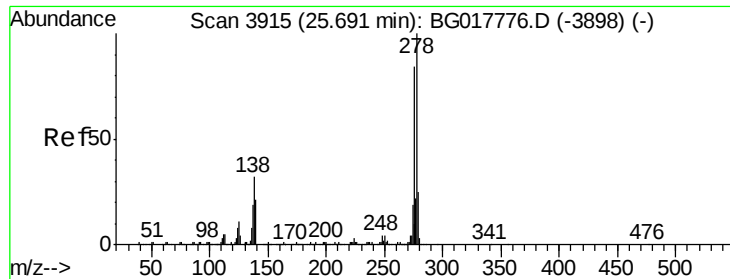
Delta R.T. 0.02 min

Lab File: BG017784.D

Acq: 7 Jul 2015 00:16

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	398441		
138	27.9	26.1	39.1	
277	25.1	20.9	31.3	





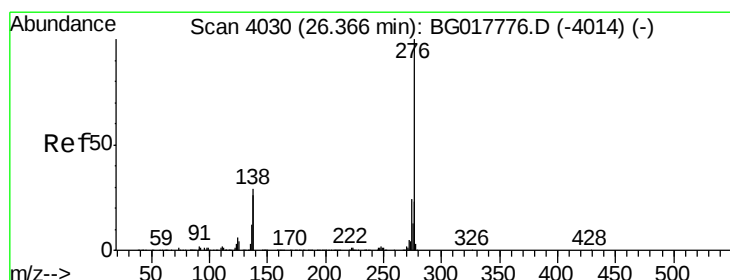
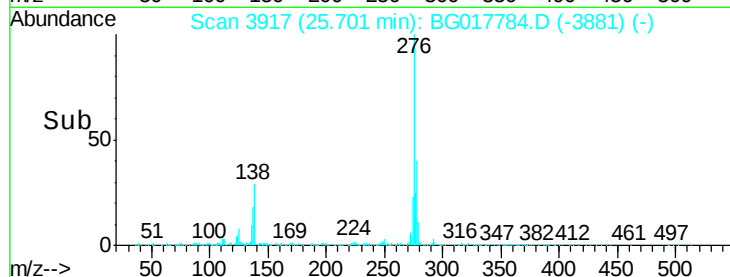
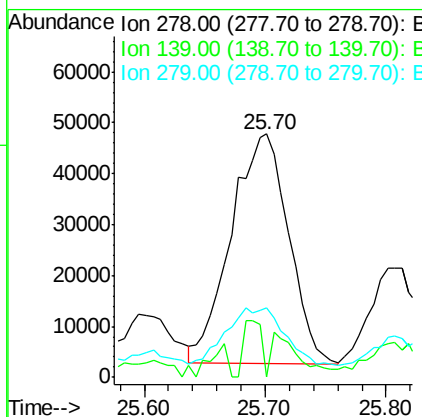
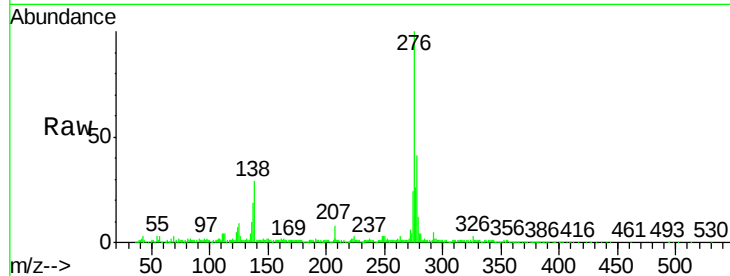
#92
Dibenzo(a,h)anthracene
Concen: 5.62 ng/ul
RT: 25.70 min Scan# 3917
Delta R.T. 0.01 min
Lab File: BG017784.D
Acq: 7 Jul 2015 00:16

Instrument :
BNA_G
ClientSampleId :
G93K0

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.3	24.5#
279	28.5	18.7	28.1#

Manual Integrations
APPROVED

apatel
7/7/2015 1:31:41 PM



#93
Benzo(g,h,i)perylene
Concen: 12.79 ng/ul
RT: 26.38 min Scan# 4033
Delta R.T. 0.02 min
Lab File: BG017784.D
Acq: 7 Jul 2015 00:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.3	25.1	37.7
277	25.2	18.7	28.1

