

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
 Data File : BG023703.D
 Acq On : 14 Aug 2016 00:47
 Operator : UM/SJ
 Sample : H4385-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 P002-SS002-0002-01

Manual Integrations
 APPROVED

umangi
 8/16/2016 6:59:44 PM

Quant Time: Aug 15 19:26:08 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Aug 13 06:38:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	115432	20.00	ng/ul	0.00
18) Naphthalene-d8	10.95	136	533563	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.79	164	329582	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.56	188	681625m	20.00	ng/ul	0.00
75) Chrysene-d12	21.88	240	713812m	20.00	ng/ul	0.00
83) Perylene-d12	25.30	264	744138	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.48	96	7960	2.93	ng/uL	0.00
5) Phenol-d5	7.27	99	232646	20.01	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.43	67	148751	19.97	ng/ul	0.00
9) 2-Chlorophenol-d4	7.65	132	163331	20.59	ng/ul	0.00
13) 4-Methylphenol-d8	8.83	113	182872	20.14	ng/ul	0.00
19) Nitrobenzene-d5	9.29	128	89910m	21.38	ng/ul	0.00
22) 2-Nitrophenol-d4	10.02	143	106434	22.03	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.57	165	192001	21.07	ng/ul	0.00
29) 4-Chloroaniline-d4	11.09	131	197167	18.45	ng/ul	0.00
43) Dimethylphthalate-d6	14.18	166	600788	22.26	ng/ul	0.00
46) Acenaphthylene-d8	14.48	160	719231	23.68	ng/ul	0.00
51) 4-Nitrophenol-d4	15.01	143	78932	17.13	ng/ul	0.00
57) Fluorene-d10	15.79	176	538187	21.58	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.92	200	64803m	14.82	ng/ul	0.00
70) Anthracene-d10	17.66	188	743893m	24.22	ng/ul	0.00
76) Pyrene-d10	19.95	212	809014m	22.39	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.07	264	819785	24.34	ng/ul	0.02

Target Compounds

						Ovalue
28) Naphthalene	11.00	128	33098	1.22	ng/ul	96
34) 2-Methylnaphthalene	12.61	142	51392	2.34	ng/ul	93
44) Dimethylphthalate	14.23	163	339202	12.69	ng/ul	97
47) Acenaphthylene	14.51	152	423532	13.33	ng/ul	98
49) Acenaphthene	14.85	153	163977	7.58	ng/ul	99
53) Dibenzofuran	15.19	168	253439	7.90	ng/ul	93
58) Fluorene	15.84	166	563506	21.09	ng/ul	100
69) Phenanthrene	17.60	178	3691603m	104.58	ng/ul	
71) Anthracene	17.69	178	1159218	32.18	ng/ul	98
72) Carbazole	17.96	167	233188	8.03	ng/ul	95
74) Fluoranthene	19.62	202	4314325m	119.38	ng/ul	
77) Pyrene	19.98	202	3932856m	89.12	ng/ul	
80) Benzo(a)anthracene	21.87	228	2840591m	70.66	ng/ul	
82) Chrysene	21.94	228	2483087m	67.93	ng/ul	
85) Benzo(b)fluoranthene	24.22	252	2810087	66.39	ng/ul#	93
86) Benzo(k)fluoranthene	24.28	252	1149225m	27.58	ng/ul	
88) Benzo(a)pyrene	25.15	252	2053797	50.26	ng/ul#	92
89) Indeno(1,2,3-cd)pyrene	29.23	276	1137630	23.69	ng/ul#	84
90) Dibenzo(a,h)anthracene	29.26	278	359918	8.79	ng/ul#	80
91) Benzo(g,h,i)perylene	30.45	276	879513	22.09	ng/ul#	84

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

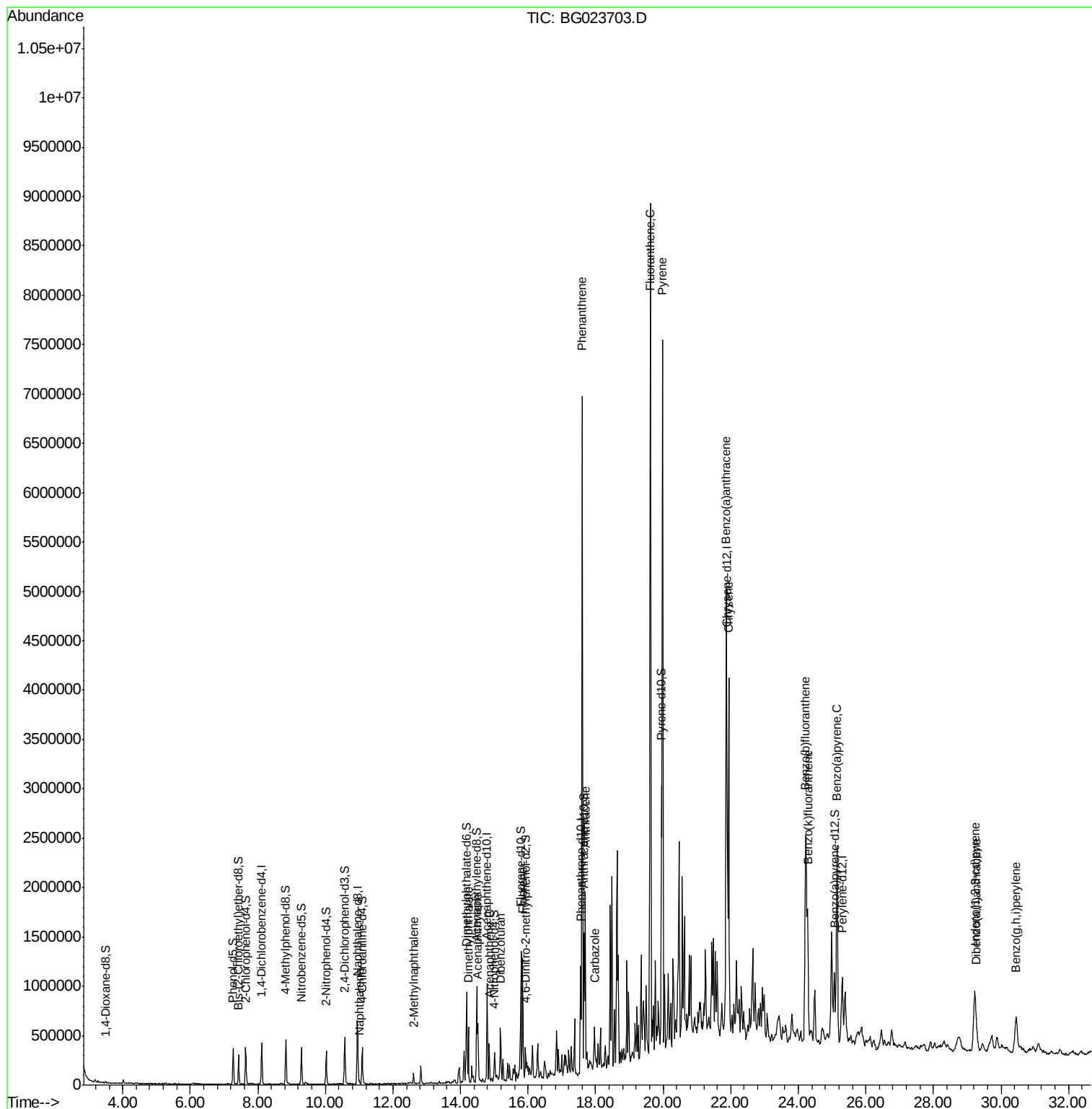
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081316\
Data File : BG023703.D
Acq On : 14 Aug 2016 00:47
Operator : UM/SJ
Sample : H4385-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

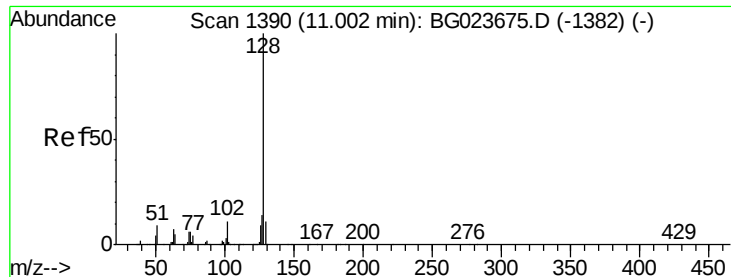
Instrument :
BNA_G
ClientSampleId :
P002-SS002-0002-01

Manual Integrations
APPROVED

umangi
8/16/2016 6:59:44 PM

Quant Time: Aug 15 19:26:08 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 13 06:38:14 2016
Response via : Initial Calibration





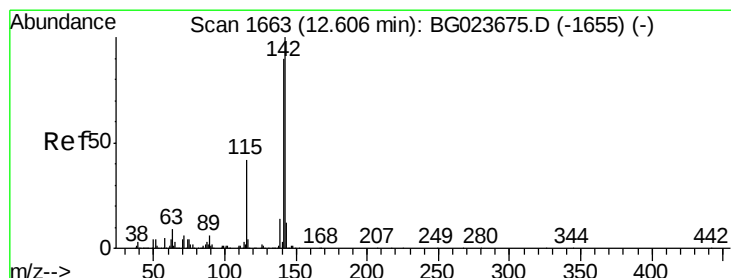
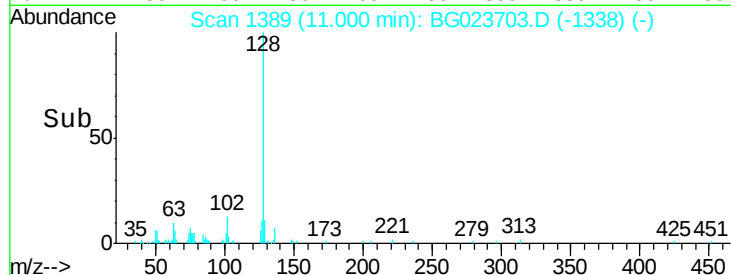
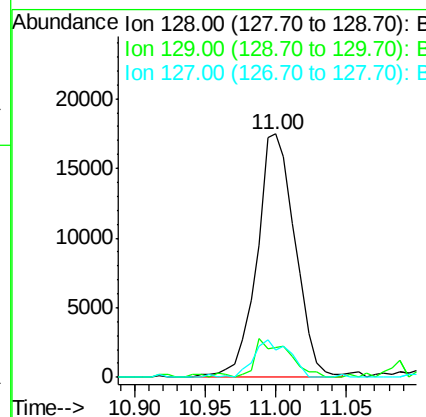
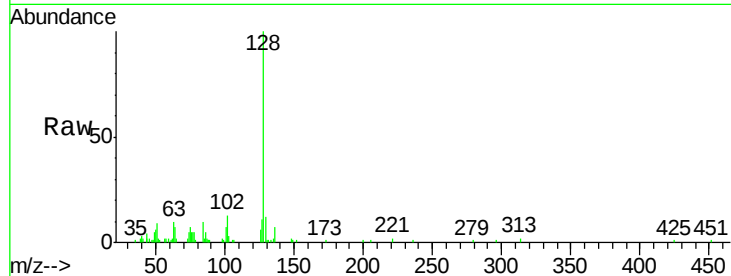
#28
Naphthalene
Concen: 1.22 ng/ul
RT: 11.00 min Scan# 1389
Delta R.T. -0.00 min
Lab File: BG023703.D
Acq: 14 Aug 2016 00:47

Instrument :
BNA_G
ClientSampleId :
P002-SS002-0002-01

Tot Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.4	14.2
127	11.3	11.2	16.8

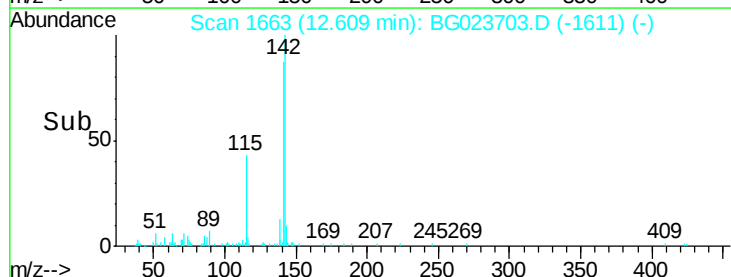
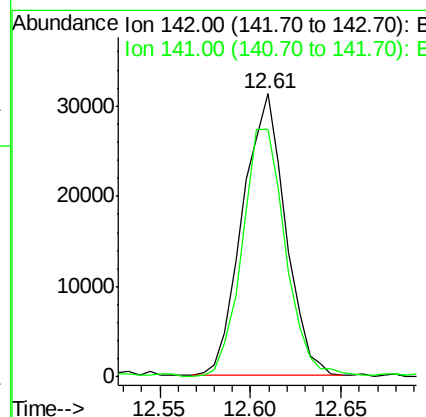
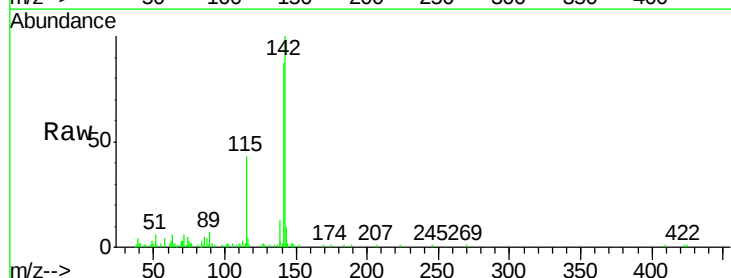
Manual Integrations
APPROVED

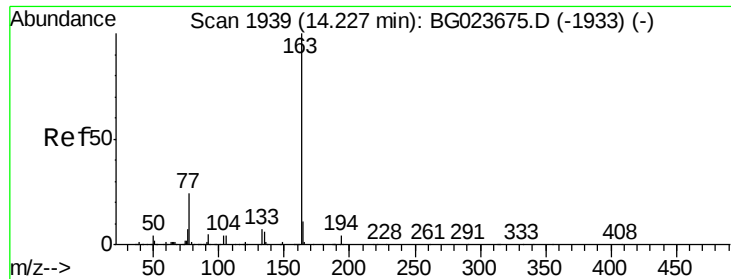
umangi
8/16/2016 6:59:44 PM



#34
2-Methylnaphthalene
Concen: 2.34 ng/ul
RT: 12.61 min Scan# 1663
Delta R.T. 0.00 min
Lab File: BG023703.D
Acq: 14 Aug 2016 00:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.4	75.2	112.8





#44

Dimethylphthalate

Concen: 12.69 ng/ul

RT: 14.23 min Scan# 1939

Delta R.T. 0.00 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Instrument :

BNA_G

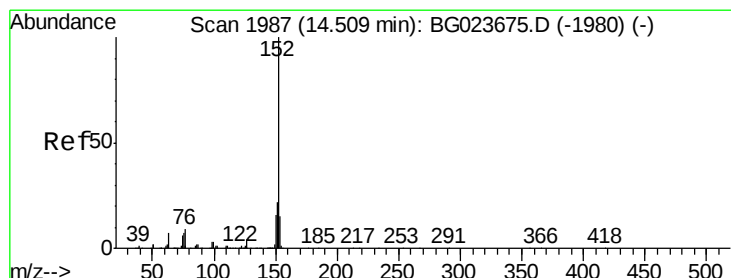
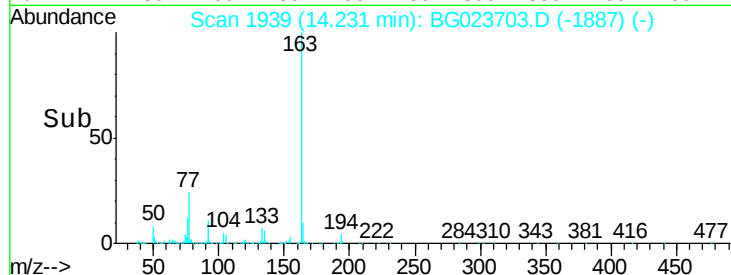
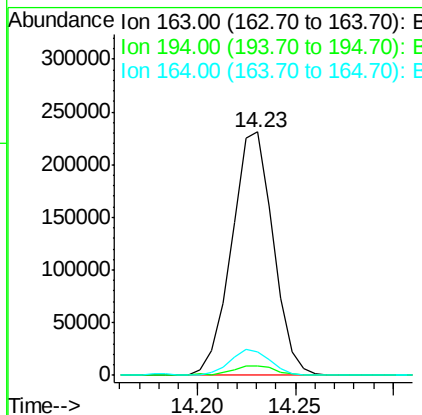
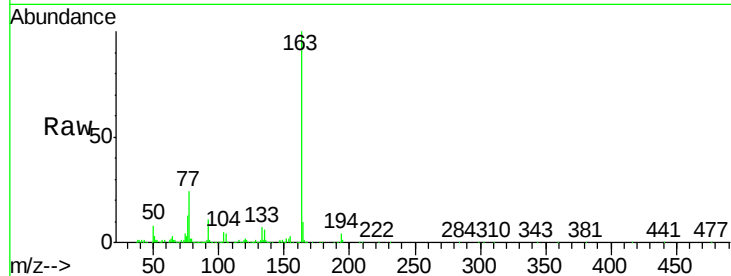
ClientSampleId :

P002-SS002-0002-01

Tot Ion:	163	Resp:	339202
Ion Ratio	Lower	Upper	
163	100		
194	4.1	3.4	5.2
164	9.5	8.8	13.2

Manual Integrations
APPROVED

umangi
8/16/2016 6:59:44 PM



#47

Acenaphthylene

Concen: 13.33 ng/ul

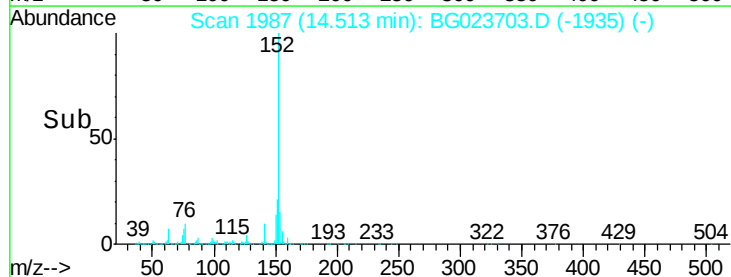
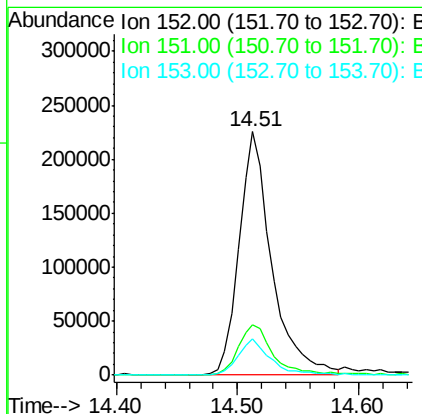
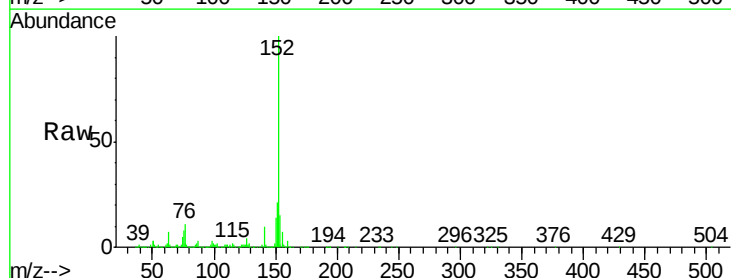
RT: 14.51 min Scan# 1987

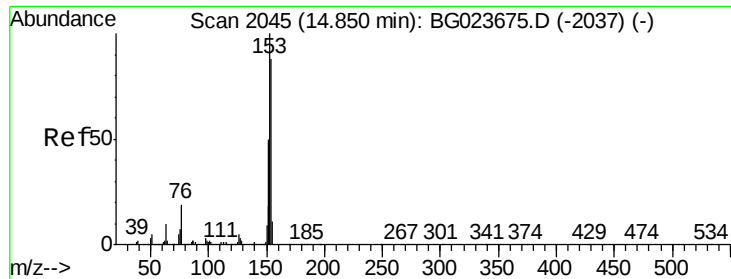
Delta R.T. 0.00 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Tgt Ion:	152	Resp:	423532
Ion Ratio	Lower	Upper	
152	100		
151	20.9	17.5	26.3
153	14.8	11.1	16.7





#49

Acenaphthene

Concen: 7.58 ng/ul

RT: 14.85 min Scan# 2044

Delta R.T. -0.00 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Instrument :

BNA_G

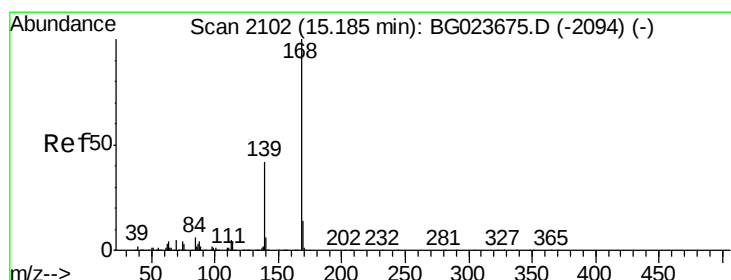
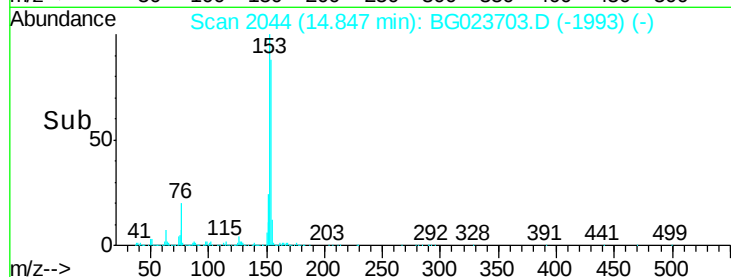
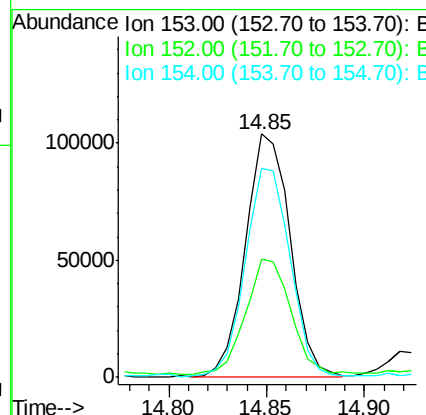
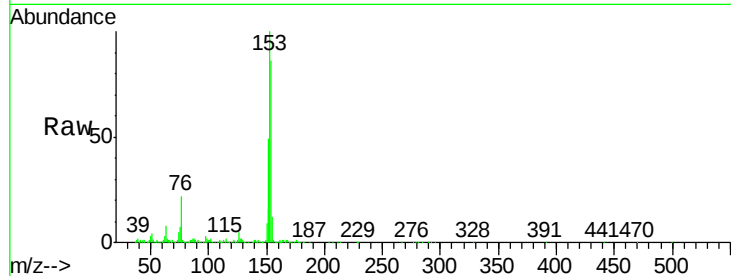
ClientSampleId :

P002-SS002-0002-01

Tot Ion:	153	Resp:	163977
Ion Ratio	Lower	Upper	
153	100		
152	48.7	37.3	55.9
154	85.6	68.2	102.2

Manual Integrations
APPROVED

umangi
8/16/2016 6:59:44 PM



#53

Dibenzofuran

Concen: 7.90 ng/ul

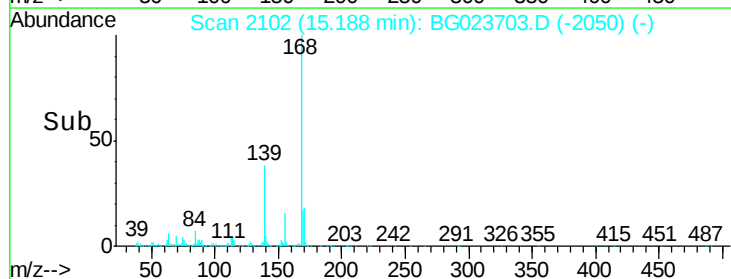
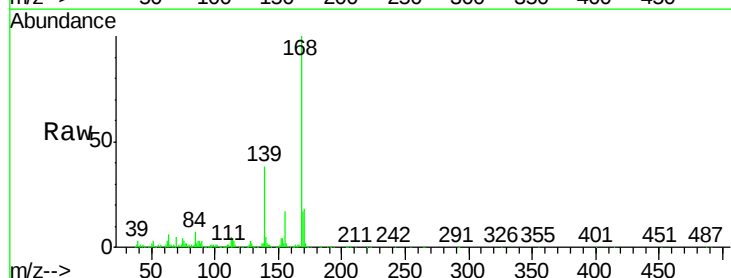
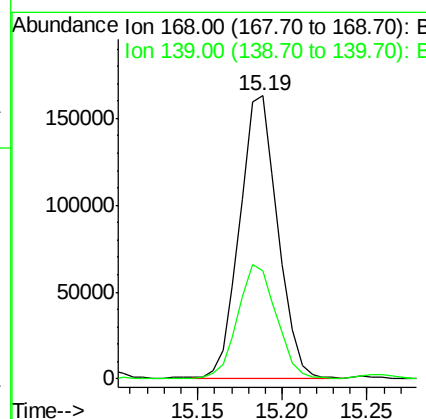
RT: 15.19 min Scan# 2102

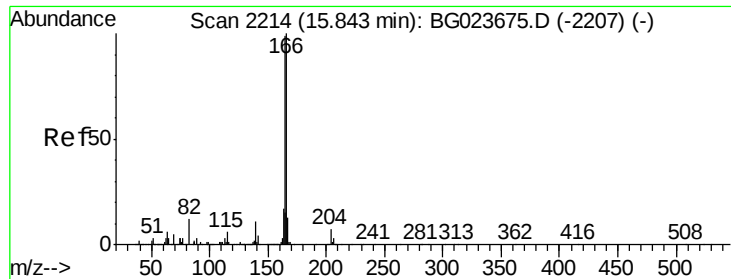
Delta R.T. 0.00 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Tgt Ion:	168	Resp:	253439
Ion Ratio	Lower	Upper	
168	100		
139	38.0	27.4	41.0





#58

Fluorene

Concen: 21.09 ng/ul

RT: 15.84 min Scan# 2213

Delta R.T. -0.00 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Instrument :

BNA_G

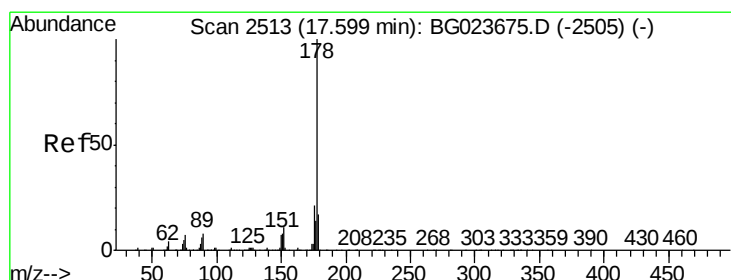
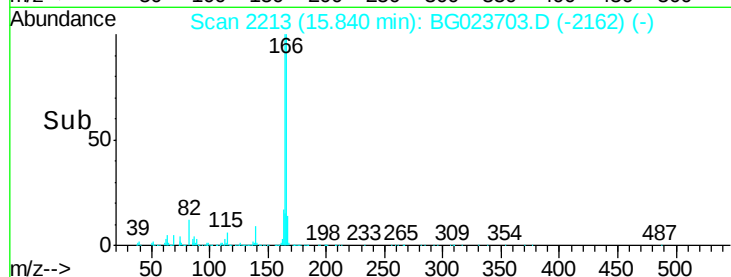
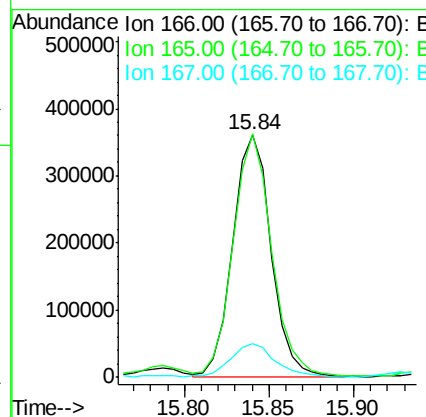
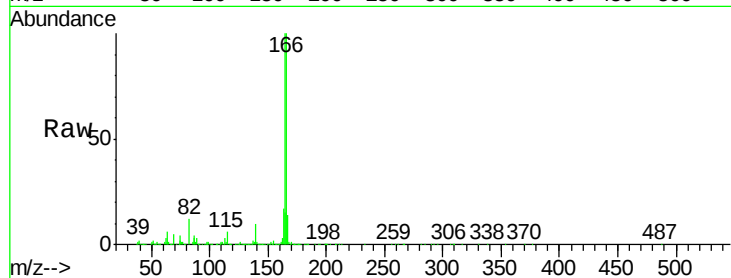
ClientSampleId :

P002-SS002-0002-01

Tot Ion:	166	Resp:	563506
Ion Ratio		Lower	Upper
166	100		
165	100.3	80.3	120.5
167	13.9	10.3	15.5

Manual Integrations
APPROVED

umangi
8/16/2016 6:59:44 PM



#69

Phenanthrene

Concen: 104.58 ng/ul m

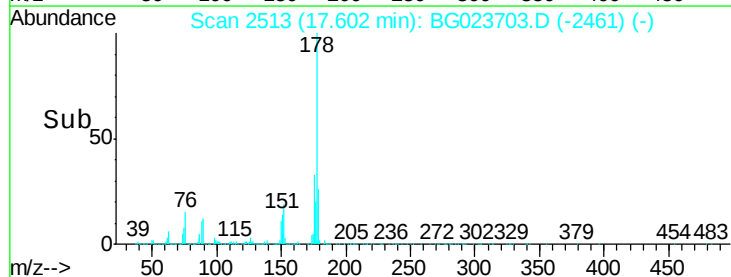
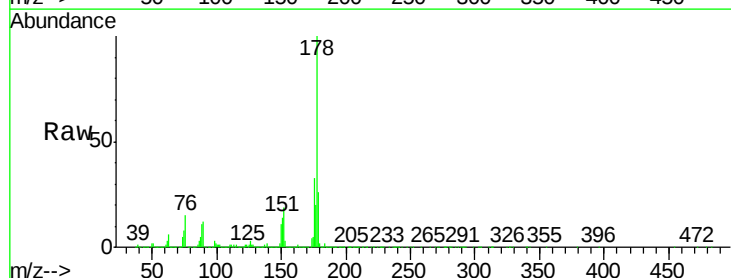
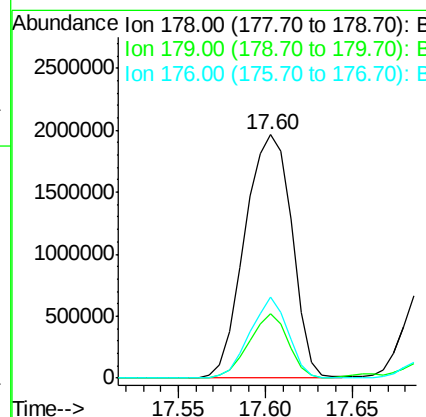
RT: 17.60 min Scan# 2513

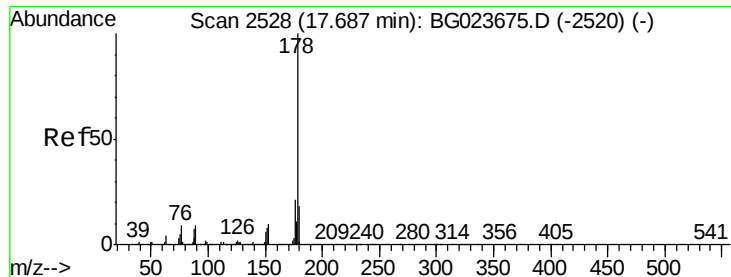
Delta R.T. 0.00 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Tgt Ion:	178	Resp:	3691603
Ion Ratio		Lower	Upper
178	100		
179	26.4	12.9	19.3#
176	33.1	15.8	23.8#





#71

Anthracene

Concen: 32.18 ng/ul

RT: 17.69 min Scan# 2528

Delta R.T. 0.00 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Instrument :

BNA_G

ClientSampleId :

P002-SS002-0002-01

Tot Ion:178 Resp: 1159218

Ion Ratio Lower Upper

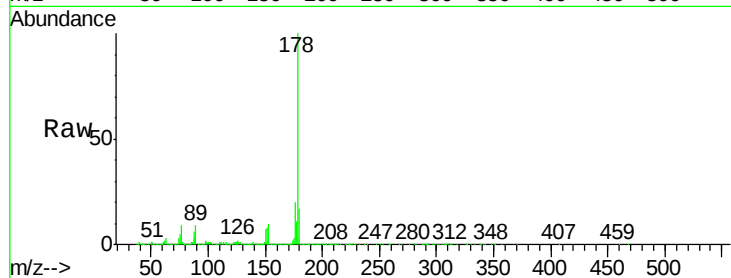
178 100

179 17.0 12.3 18.5

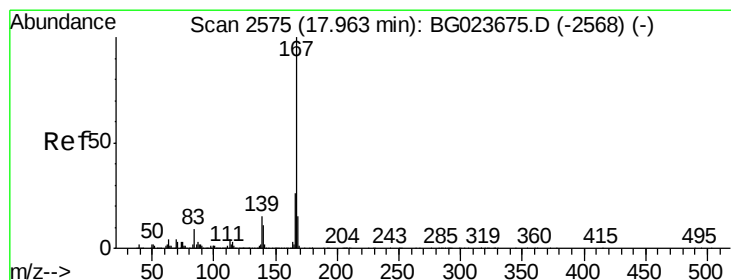
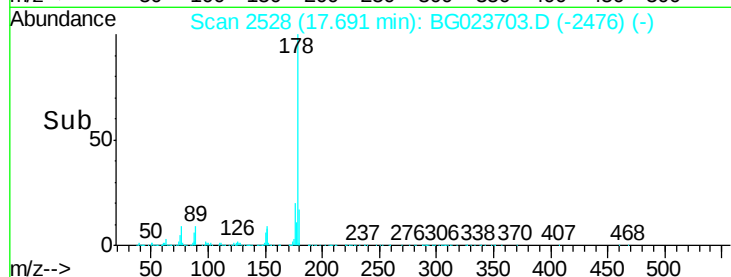
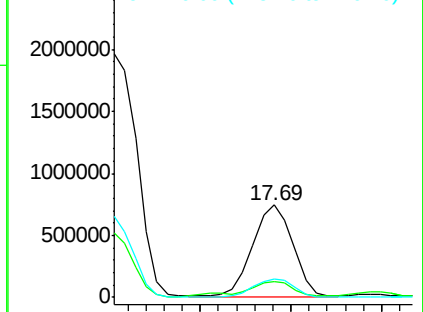
176 20.0 16.3 24.5

Manual Integrations
APPROVED

umangi
8/16/2016 6:59:44 PM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 8.03 ng/ul

RT: 17.96 min Scan# 2574

Delta R.T. -0.00 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

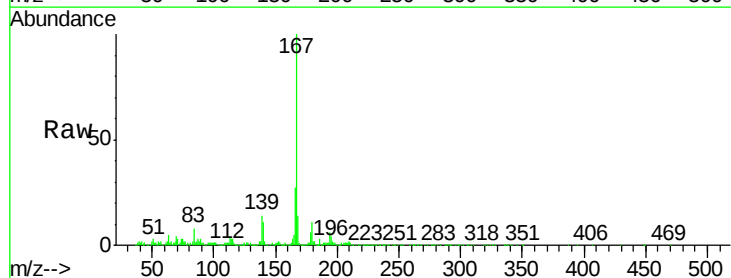
Tgt Ion:167 Resp: 233188

Ion Ratio Lower Upper

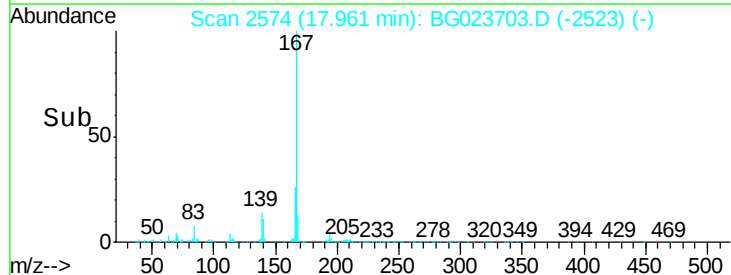
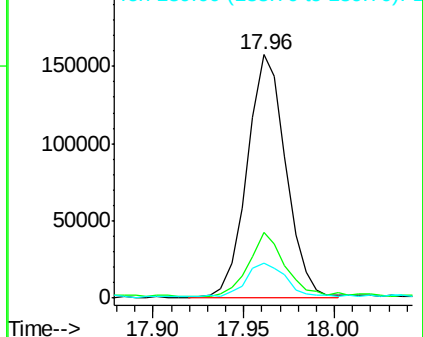
167 100

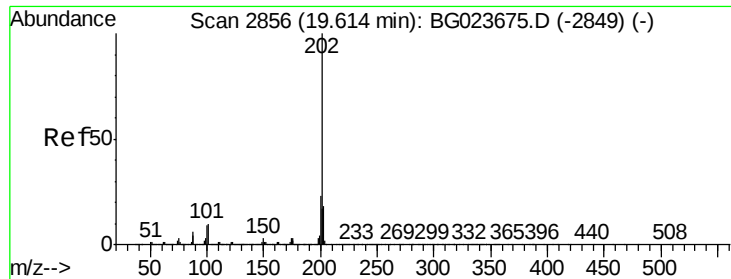
166 26.8 19.2 28.8

139 14.3 10.2 15.4



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





#74

Fluoranthene

Concen: 119.38 ng/ul m

RT: 19.62 min Scan# 2857

Delta R.T. 0.01 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Instrument :

BNA_G

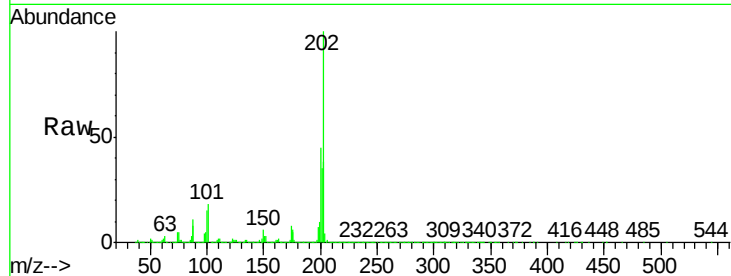
ClientSampleId :

P002-SS002-0002-01

Tot Ion	Ratio	Lower	Upper
202	100		
101	18.2	10.6	16.0#
100	15.1	8.7	13.1#

Manual Integrations
APPROVED

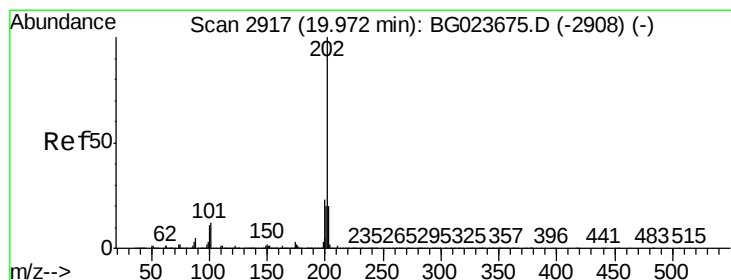
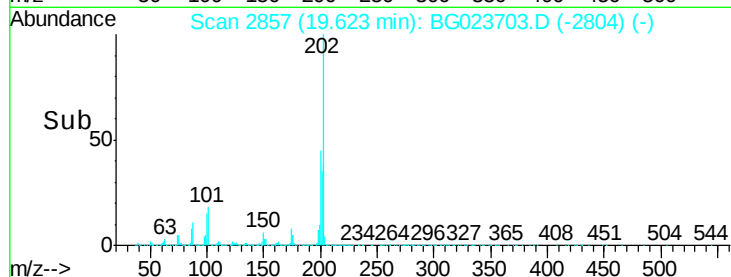
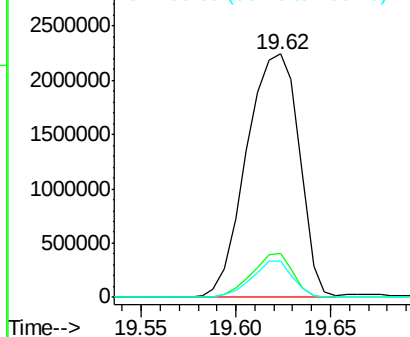
umangi
8/16/2016 6:59:44 PM



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



#77

Pyrene

Concen: 89.12 ng/ul m

RT: 19.98 min Scan# 2918

Delta R.T. 0.01 min

Lab File: BG023703.D

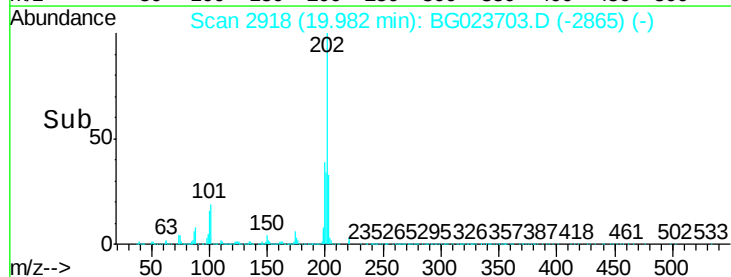
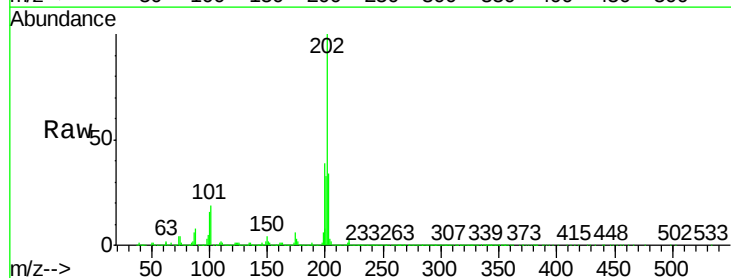
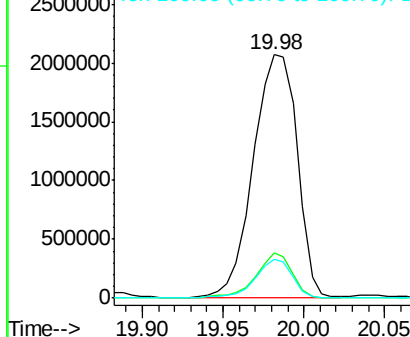
Acq: 14 Aug 2016 00:47

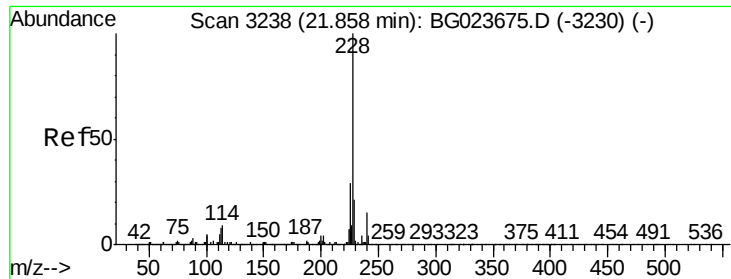
Tgt Ion	Ratio	Lower	Upper
202	100		
101	18.8	12.5	18.7#
100	16.0	10.2	15.4#

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 70.66 ng/ul m

RT: 21.87 min Scan# 3239

Delta R.T. 0.01 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Instrument :

BNA_G

ClientSampleId :

P002-SS002-0002-01

Tot Ion:228 Resp: 2840591

Ion Ratio Lower Upper

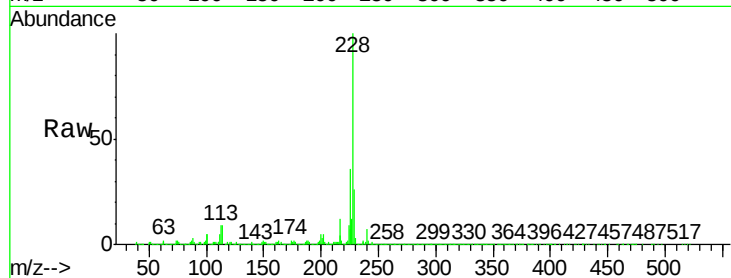
228 100

229 25.6 15.4 23.2#

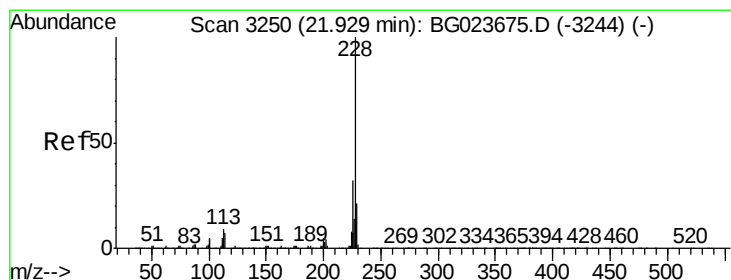
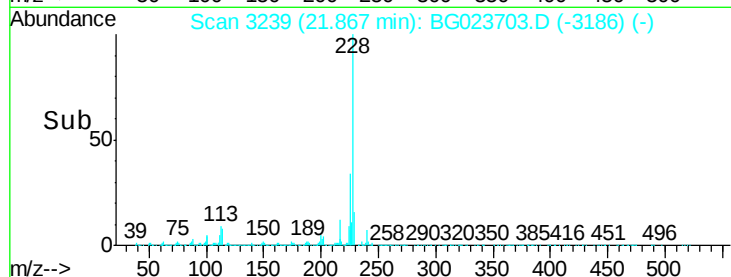
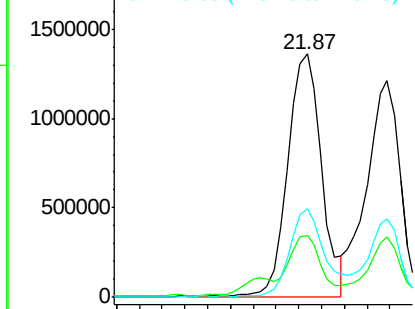
226 36.2 22.8 34.2#

Manual Integrations
APPROVED

umangi
8/16/2016 6:59:44 PM



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 67.93 ng/ul m

RT: 21.94 min Scan# 3251

Delta R.T. 0.01 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

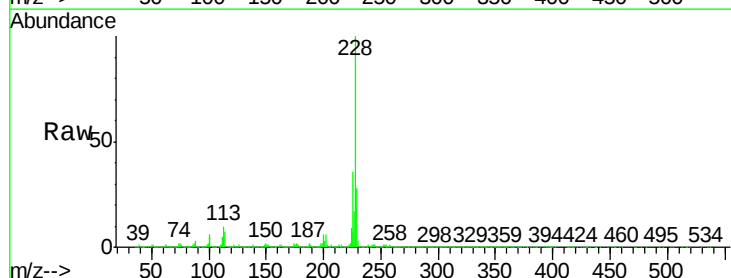
Tgt Ion:228 Resp: 2483087

Ion Ratio Lower Upper

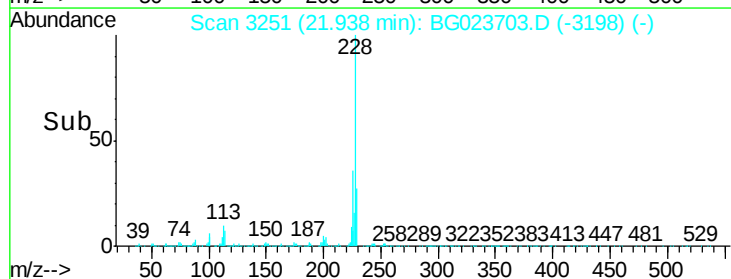
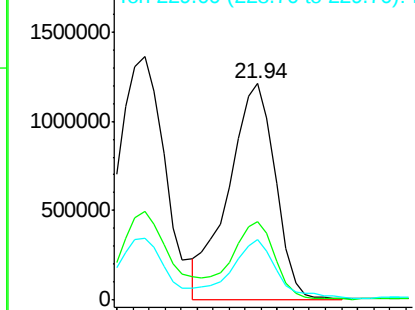
228 100

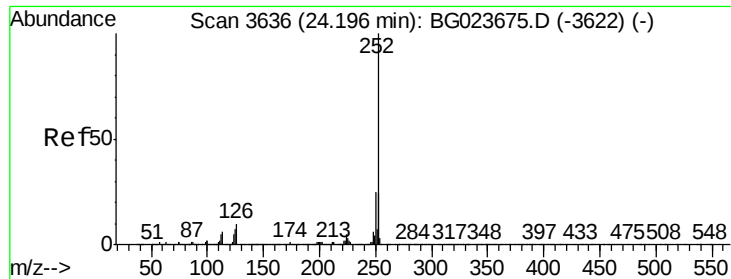
226 36.5 24.2 36.4#

229 27.8 15.0 22.6#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





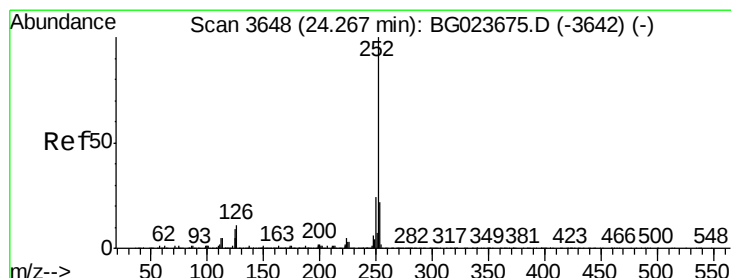
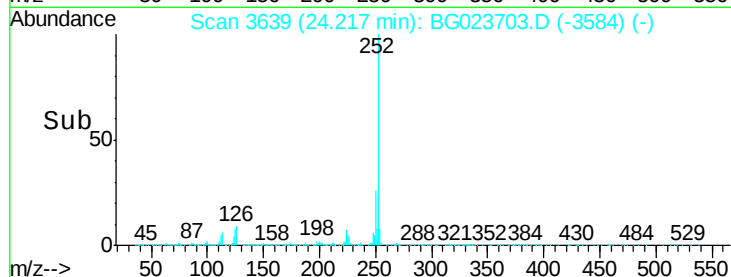
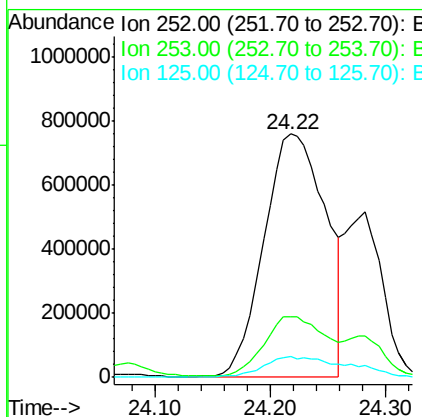
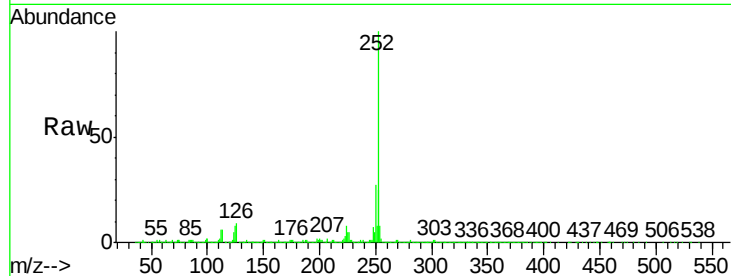
#85
Benzo(b)fluoranthene
Concen: 66.39 ng/ul
RT: 24.22 min Scan# 3639
Delta R.T. 0.02 min
Lab File: BG023703.D
Acq: 14 Aug 2016 00:47

Instrument :
BNA_G
ClientSampleId :
P002-SS002-0002-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.2	27.2
125	8.4	10.8	16.2

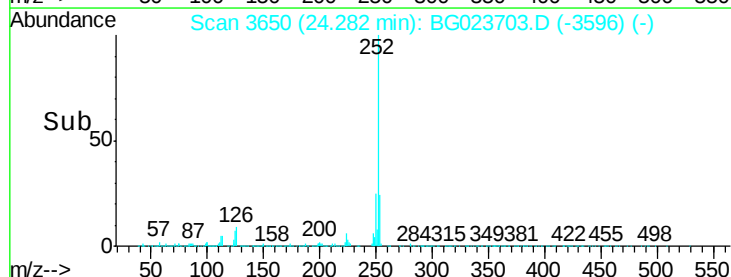
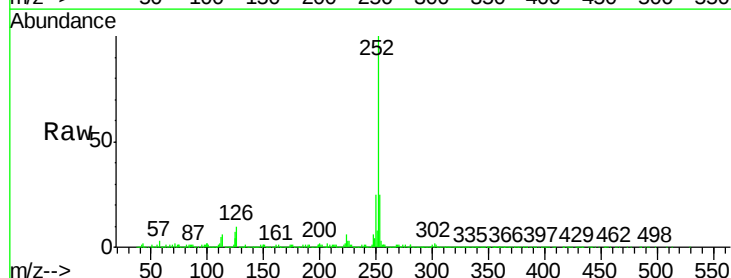
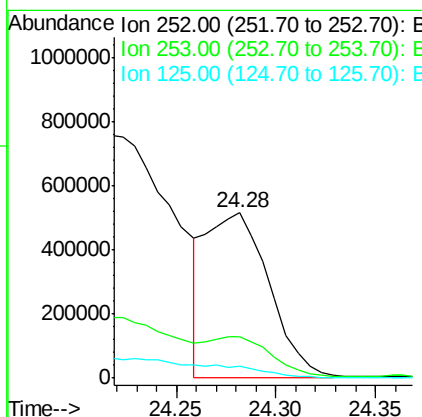
Manual Integrations
APPROVED

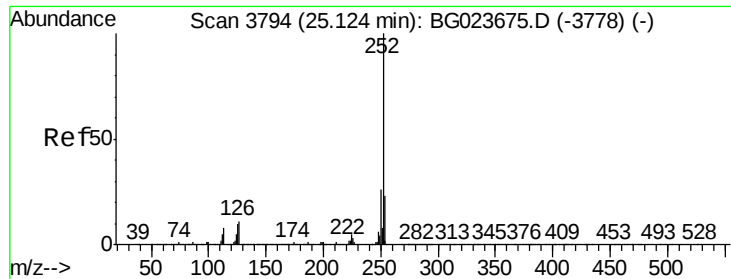
umangi
8/16/2016 6:59:44 PM



#86
Benzo(k)fluoranthene
Concen: 27.58 ng/ul m
RT: 24.28 min Scan# 3650
Delta R.T. 0.02 min
Lab File: BG023703.D
Acq: 14 Aug 2016 00:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	15.8	23.6
125	7.4	10.6	16.0





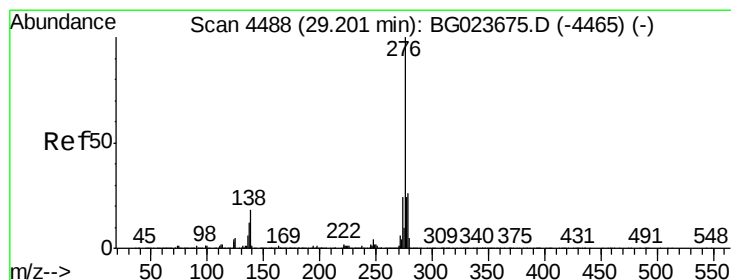
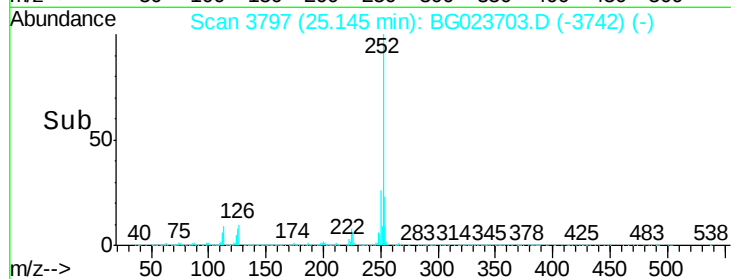
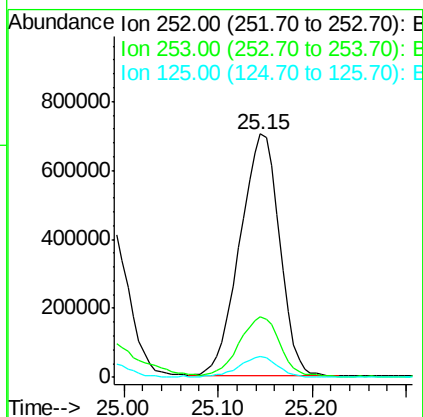
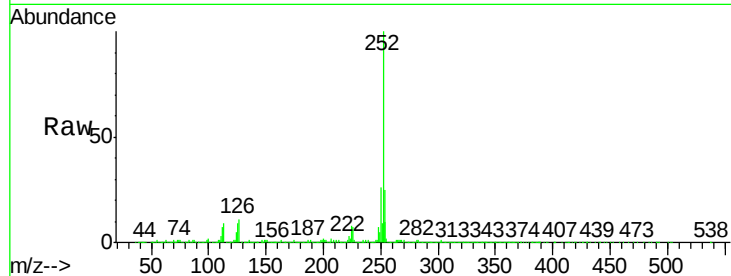
#88
Benzo(a)pyrene
Concen: 50.26 ng/ul
RT: 25.15 min Scan# 3797
Delta R.T. 0.02 min
Lab File: BG023703.D
Acq: 14 Aug 2016 00:47

Instrument :
BNA_G
ClientSampleId :
P002-SS002-0002-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.0	28.4
125	8.6	12.0	18.0

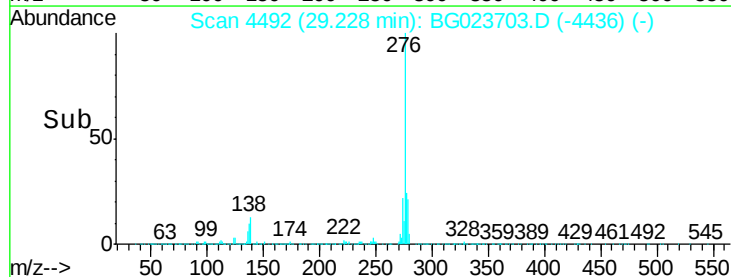
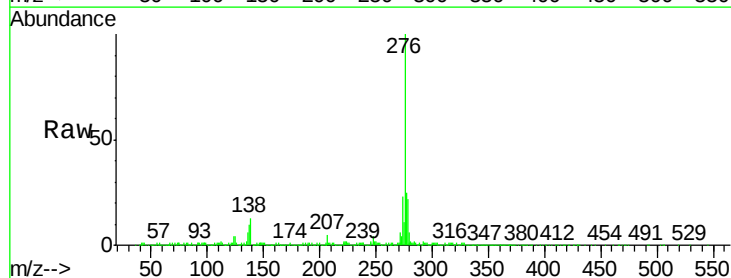
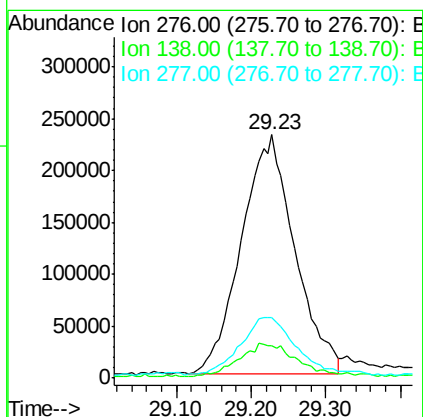
Manual Integrations
APPROVED

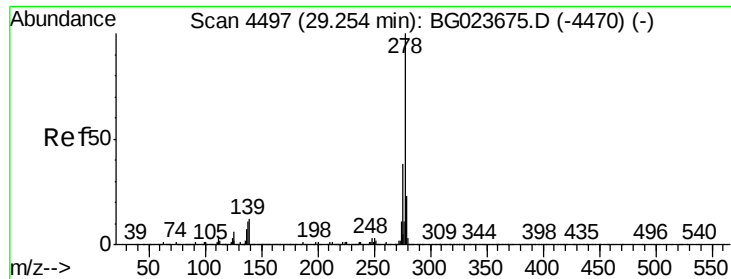
umangi
8/16/2016 6:59:44 PM



#89
Indeno(1,2,3-cd)pyrene
Concen: 23.69 ng/ul
RT: 29.23 min Scan# 4492
Delta R.T. 0.03 min
Lab File: BG023703.D
Acq: 14 Aug 2016 00:47

Tgt Ion	Ratio	Lower	Upper
276	100		
138	13.1	20.8	31.2
277	24.8	17.6	26.4





#90

Dibenzo(a,h)anthracene

Concen: 8.79 ng/ul

RT: 29.26 min Scan# 4498

Delta R.T. 0.01 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Instrument :

BNA_G

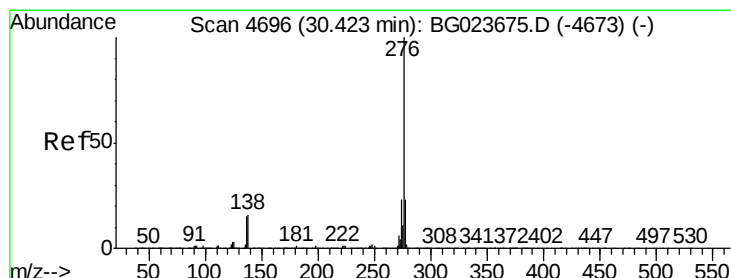
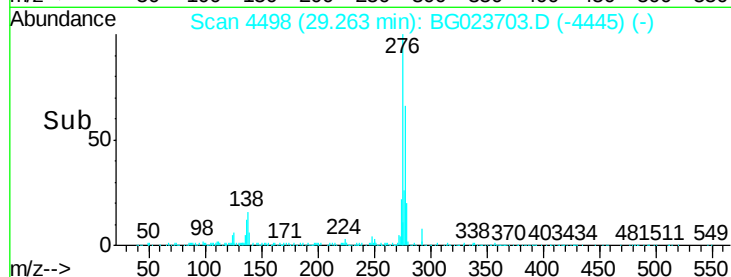
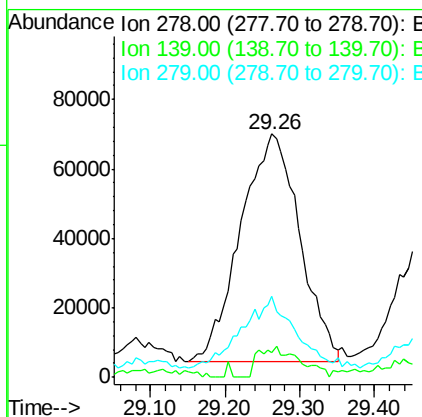
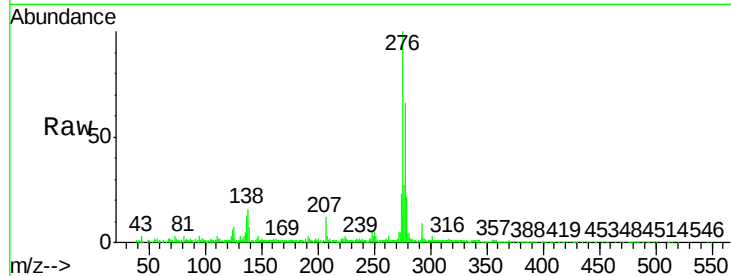
ClientSampleId :

P002-SS002-0002-01

Tot Ion:	278	Resp:	359918
Ion Ratio	Lower	Upper	
278	100		
139	10.2	16.3	24.5#
279	33.3	19.1	28.7#

Manual Integrations
APPROVED

umangi
8/16/2016 6:59:44 PM



#91

Benzo(g,h,i)perylene

Concen: 22.09 ng/ul

RT: 30.45 min Scan# 4700

Delta R.T. 0.03 min

Lab File: BG023703.D

Acq: 14 Aug 2016 00:47

Tgt Ion:	276	Resp:	879513
Ion Ratio	Lower	Upper	
276	100		
138	14.9	22.1	33.1#
277	23.9	17.0	25.4

