

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052815\
 Data File : BG017352.D
 Acq On : 29 May 2015 9:21
 Operator : TP/IZ
 Sample : G2294-05
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Manual Integrations
 APPROVED

apatel
 5/29/2015 5:44:44 PM

Quant Time: May 29 17:31:09 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 28 04:22:03 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	28998	20.00	ng	-0.05
21) Naphthalene-d8	10.44	136	116371	20.00	ng	-0.06
38) Acenaphthene-d10	14.31	164	75618	20.00	ng	-0.05
63) Phenanthrene-d10	17.06	188	165058	20.00	ng	-0.05
75) Chrysene-d12	21.25	240	202279	20.00	ng	-0.05
86) Perylene-d12	23.49	264	205179	20.00	ng	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	142352	87.10	ng	-0.05
7) Phenol-d6	6.85	99	195249	85.13	ng	-0.05
23) Nitrobenzene-d5	8.82	82	138308	55.49	ng	-0.05
41) 2,4,6-Tribromophenol	15.81	330	70458	77.08	ng	-0.05
44) 2-Fluorobiphenyl	12.93	172	238401	46.26	ng	-0.05
78) Terphenyl-d14	19.69	244	327609	33.75	ng	-0.05
Target Compounds						Qvalue
49) Dimethylphthalate	13.77	163	25496	4.31	ng	96
51) Acenaphthene	14.38	154	10972	2.51	ng	93
70) Phenanthrene	17.10	178	207821	24.42	ng	98
71) Anthracene	17.20	178	50025	5.80	ng	99
72) Carbazole	17.47	167	25915	3.27	ng	97
74) Fluoranthene	19.12	202	402581	39.39	ng	97
77) Pyrene	19.49	202	409072	32.96	ng	99
80) Benzo(a)anthracene	21.24	228	299519	25.84	ng	100
82) Chrysene	21.28	228	277686	25.72	ng	97
85) Indeno(1,2,3-cd)pyrene	25.79	276	311560	24.11	ng	98
87) Benzo(b)fluoranthene	22.82	252	456770	38.19	ng	# 96
88) Benzo(k)fluoranthene	22.86	252	160995m	14.18	ng	
89) Benzo(a)pyrene	23.40	252	422533	38.47	ng	98
90) Dibenzo(a,h)anthracene	25.79	278	76331	6.77	ng	# 85
91) Benzo(g,h,i)perylene	26.50	276	304872	28.73	ng	# 96

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

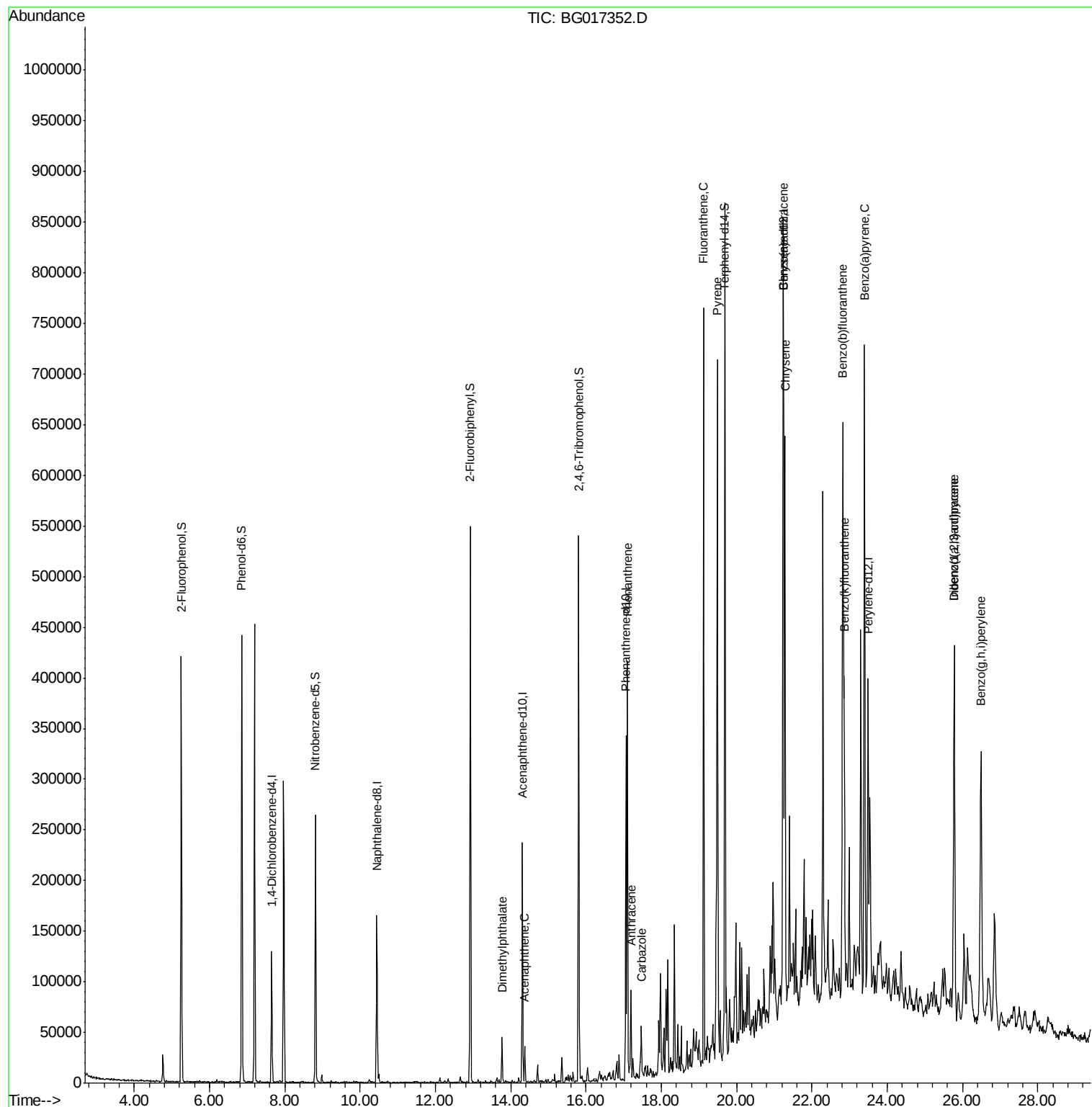
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052815\
Data File : BG017352.D
Acq On : 29 May 2015 9:21
Operator : TP/IZ
Sample : G2294-05
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
HY-SB403B(5-5.5)

Manual Integrations
APPROVED

apatel
5/29/2015 5:44:44 PM

Quant Time: May 29 17:31:09 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu May 28 04:22:03 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.65 min Scan# 845

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

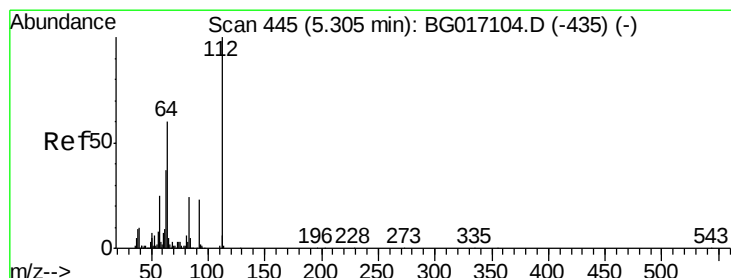
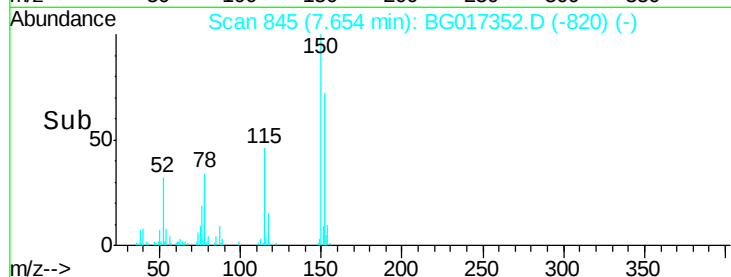
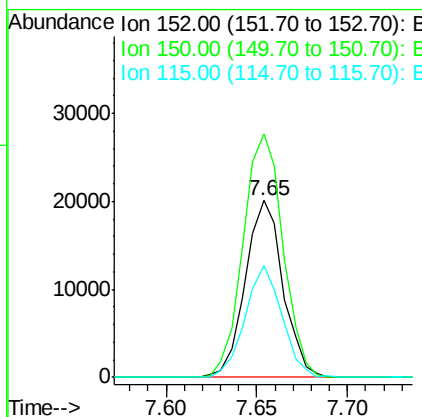
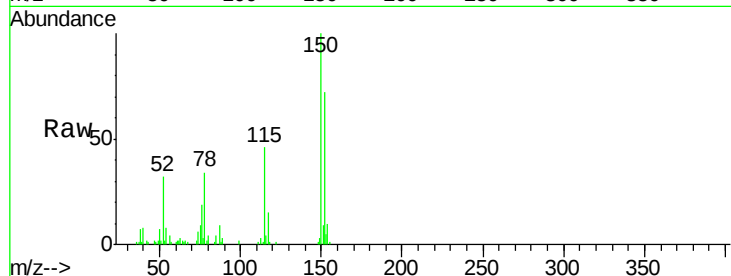
ClientSampleId :

HY-SB403B(5-5.5)

Tgt	Ion:152	Resp:	28998
Ion	Ratio	Lower	Upper
152	100		
150	138.0	120.8	181.2
115	63.2	49.4	74.2

Manual Integrations
APPROVED

apatel
5/29/2015 5:44:44 PM



#5

2-Fluorophenol

Concen: 87.10 ng

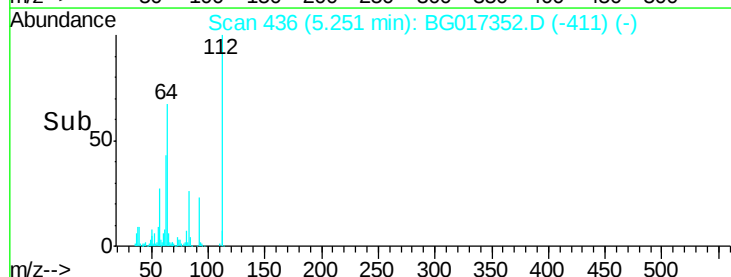
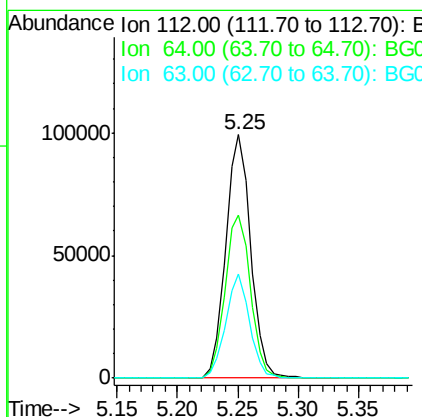
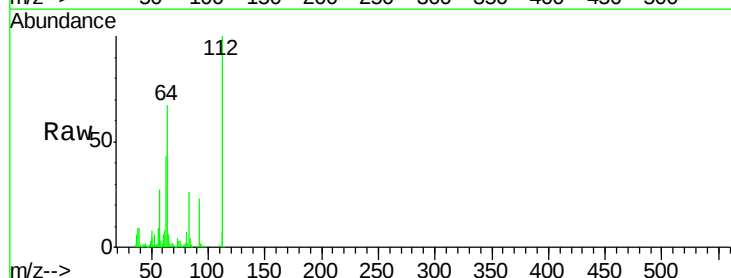
RT: 5.25 min Scan# 436

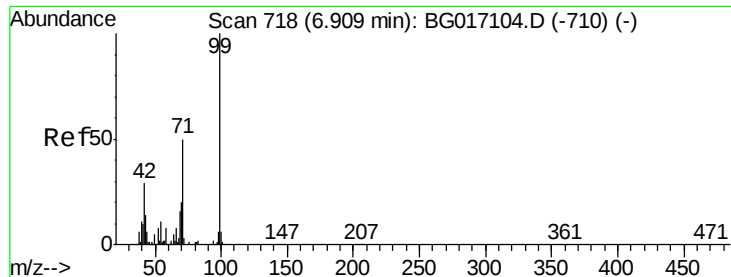
Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Tgt	Ion:112	Resp:	142352
Ion	Ratio	Lower	Upper
112	100		
64	67.2	48.1	72.1
63	42.7	29.8	44.8





#7

Phenol-d6

Concen: 85.13 ng

RT: 6.85 min Scan# 709

Delta R.T. -0.05 min

Lab File: BG017352.D

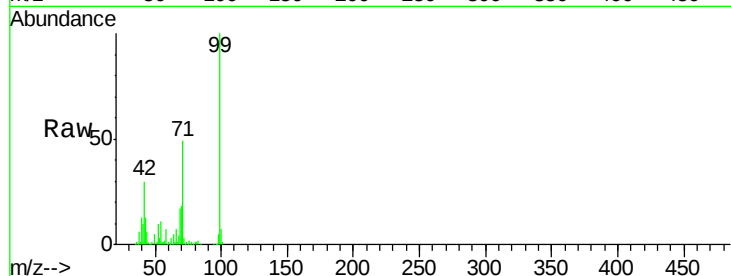
Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

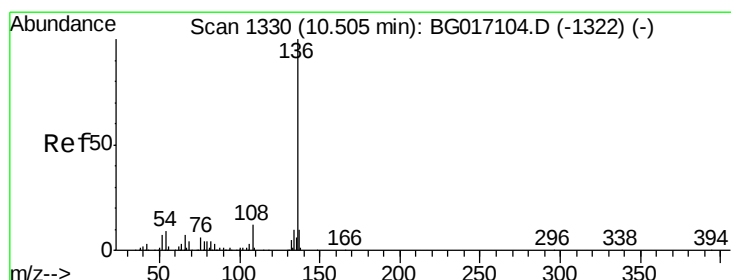
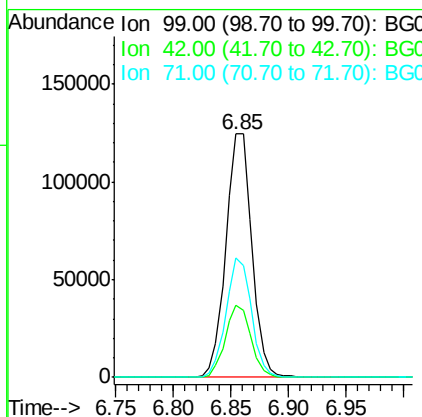
HY-SB403B(5-5.5)



Tgt Ion	Ratio	Resp	Lower	Upper
99	100	195249		
42	29.8	23.5	35.3	
71	49.3	39.8	59.8	

Manual Integrations
APPROVED

apatel
5/29/2015 5:44:44 PM



#21

Naphthalene-d8

Concen: 20.00 ng

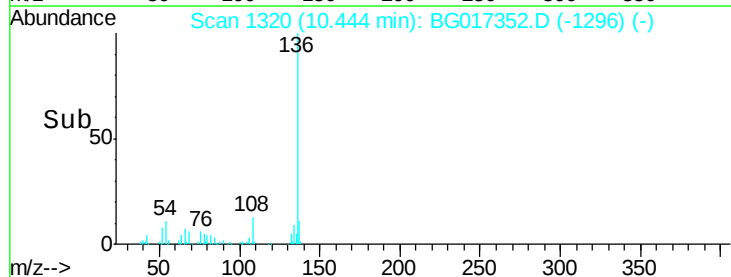
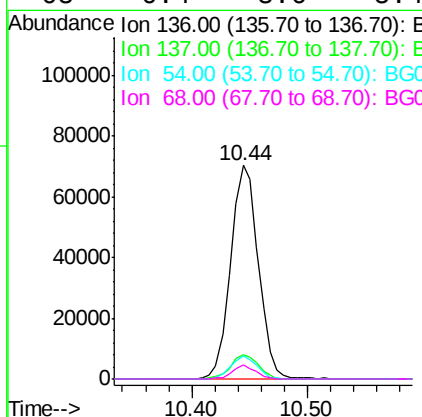
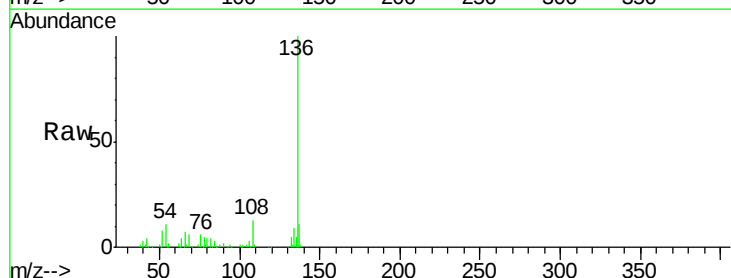
RT: 10.44 min Scan# 1320

Delta R.T. -0.06 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	116371		
137	11.3	8.3	12.5	
54	11.0	7.4	11.2	
68	6.4	3.6	5.4	#





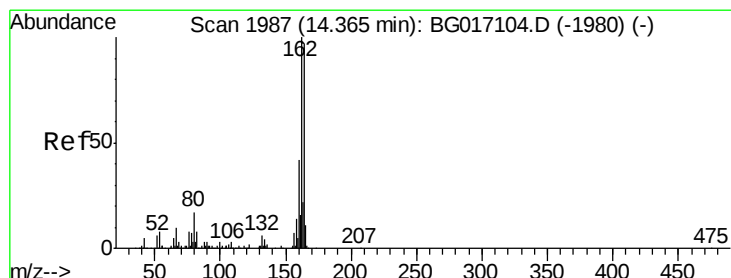
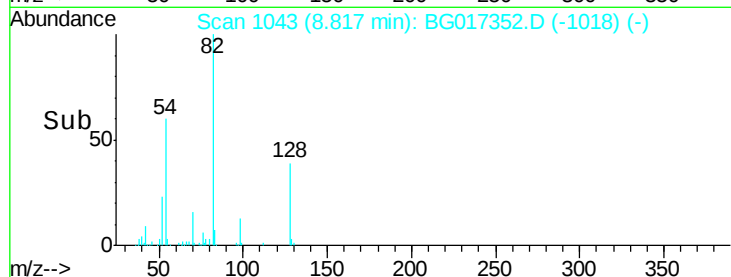
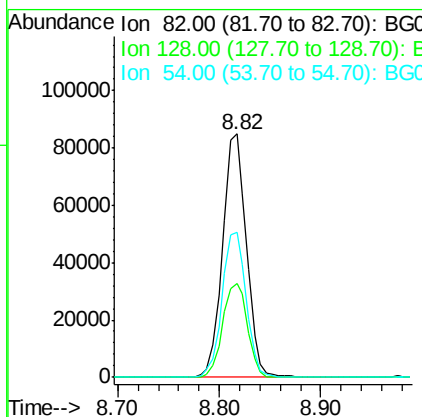
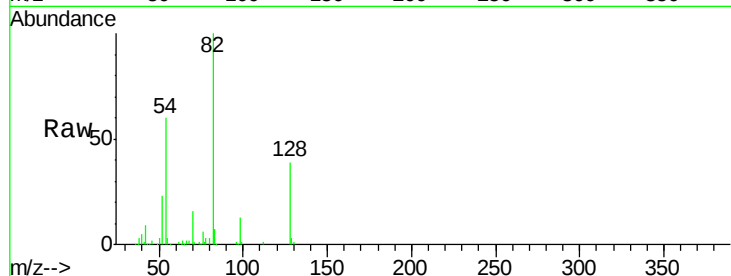
#23
 Nitrobenzene-d5
 Concen: 55.49 ng
 RT: 8.82 min Scan# 1043
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	138308		
128	38.5	32.6	49.0	
54	59.7	49.6	74.4	

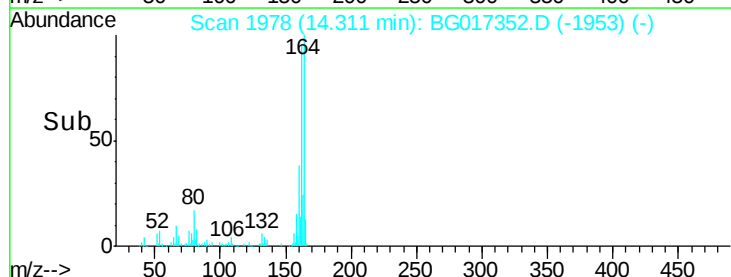
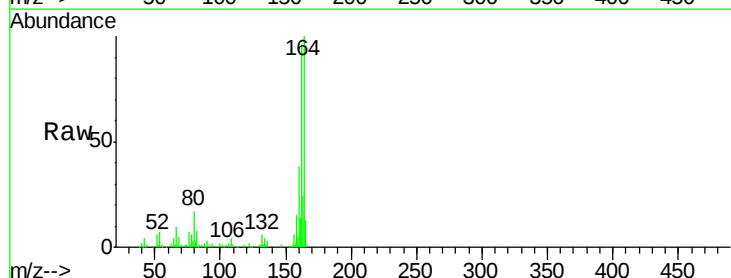
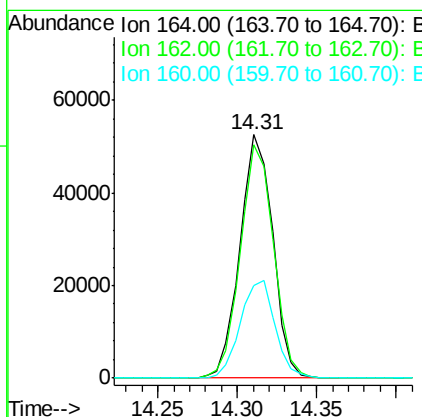
Manual Integrations
 APPROVED

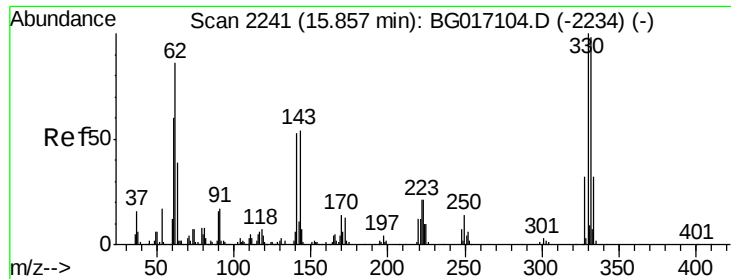
apatel
 5/29/2015 5:44:44 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.31 min Scan# 1978
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	75618		
162	95.7	82.1	123.1	
160	38.1	34.8	52.2	





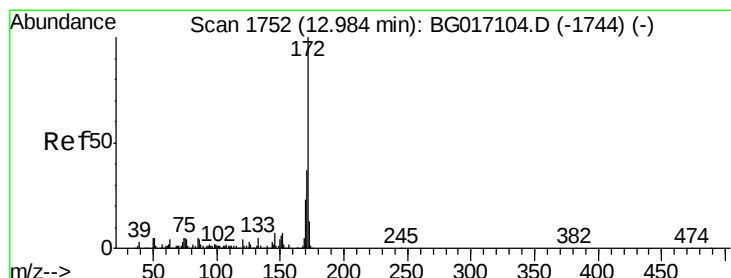
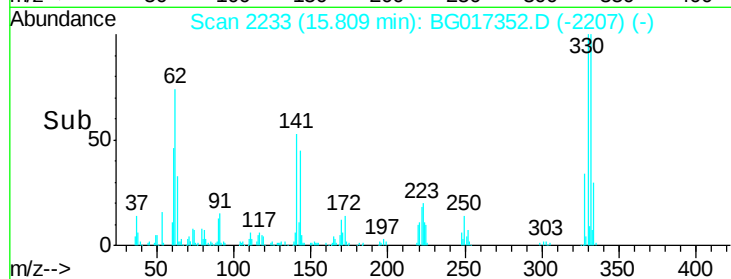
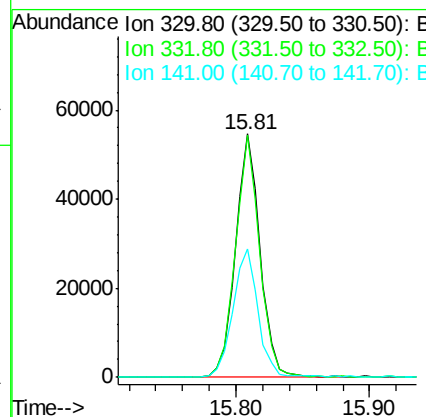
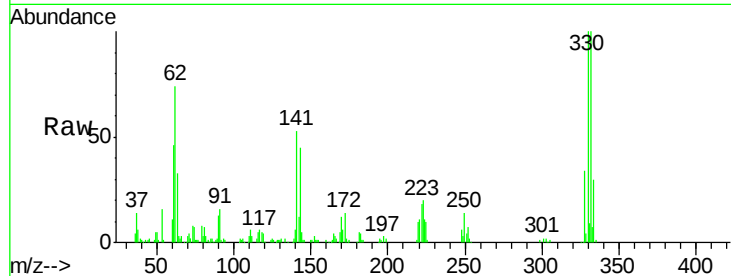
#41
 2,4,6-Tribromophenol
 Concen: 77.08 ng
 RT: 15.81 min Scan# 2233
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	70458		
332	98.3	76.9	115.3	
141	53.7	42.2	63.2	

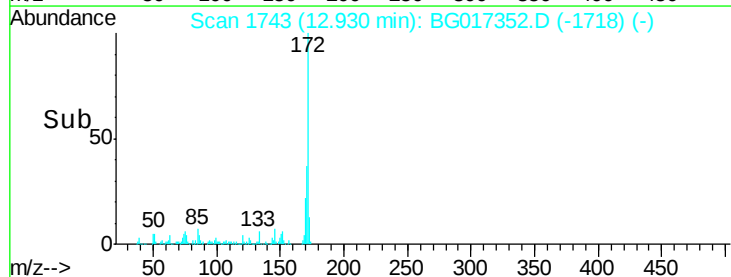
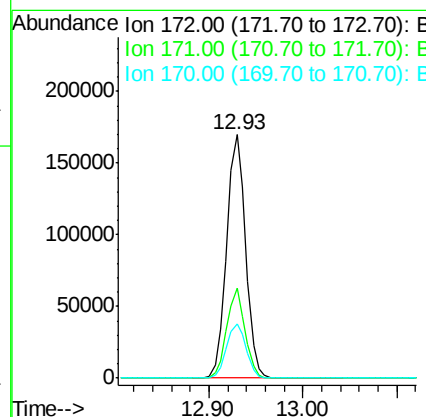
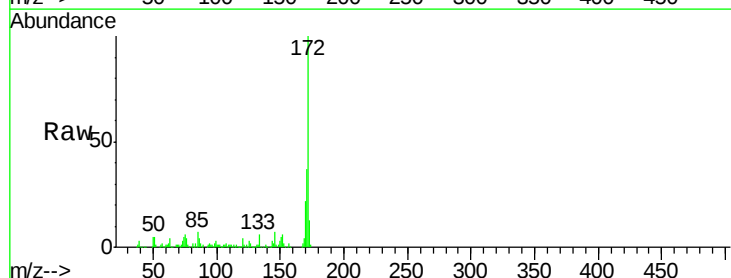
Manual Integrations
 APPROVED

apatel
 5/29/2015 5:44:44 PM



#44
 2-Fluorobiphenyl
 Concen: 46.26 ng
 RT: 12.93 min Scan# 1743
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	238401		
171	36.9	29.7	44.5	
170	22.1	18.4	27.6	





#49

Dimethylphthalate

Concen: 4.31 ng

RT: 13.77 min Scan# 1886

Delta R.T. -0.06 min

Lab File: BG017352.D

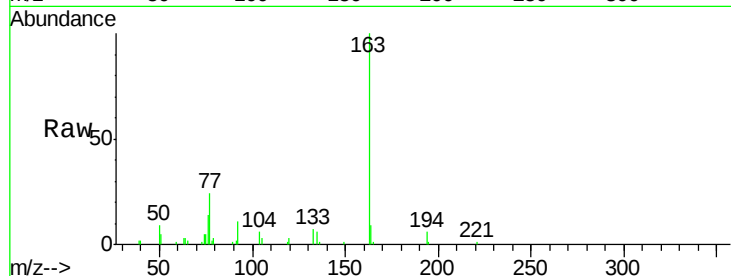
Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

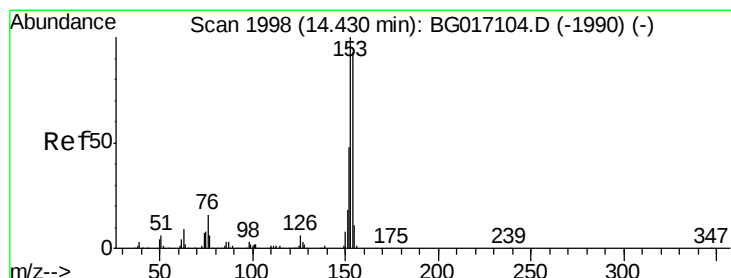
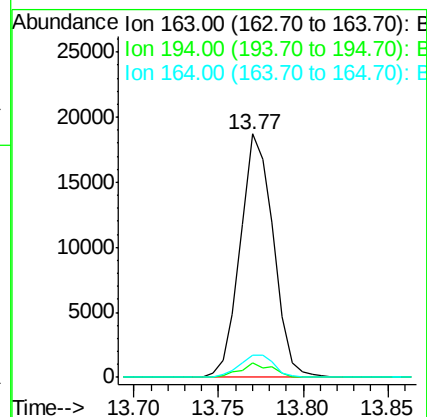
HY-SB403B(5-5.5)



Tgt Ion:	163	Resp:	25496
Ion Ratio	Lower	Upper	
163	100		
194	5.8	5.6	8.4
164	9.4	8.6	13.0

Manual Integrations
APPROVED

apatel
5/29/2015 5:44:44 PM



#51

Acenaphthene

Concen: 2.51 ng

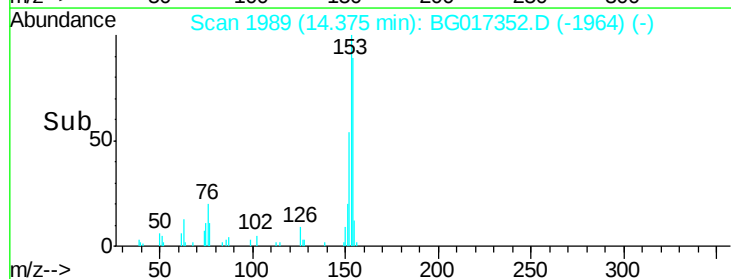
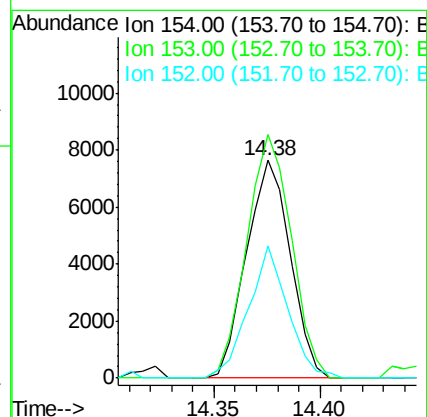
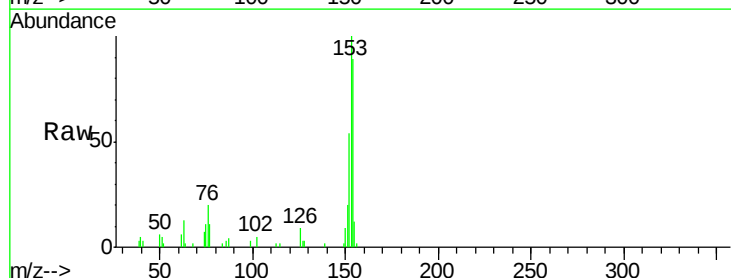
RT: 14.38 min Scan# 1989

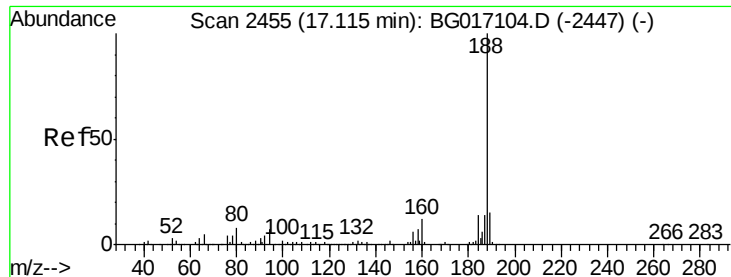
Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Tgt Ion:	154	Resp:	10972
Ion Ratio	Lower	Upper	
154	100		
153	111.8	86.2	129.4
152	60.8	41.5	62.3





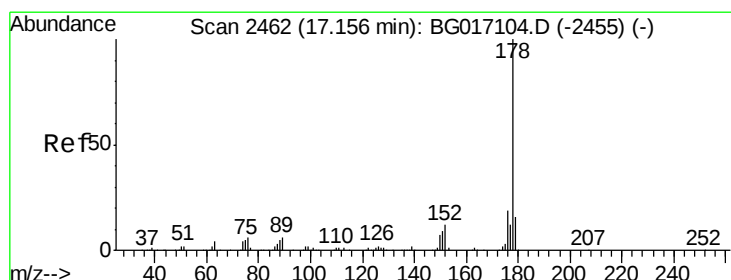
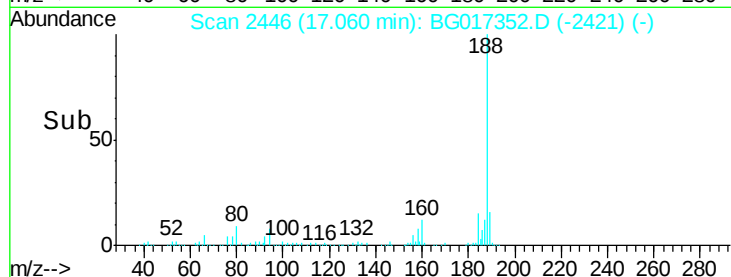
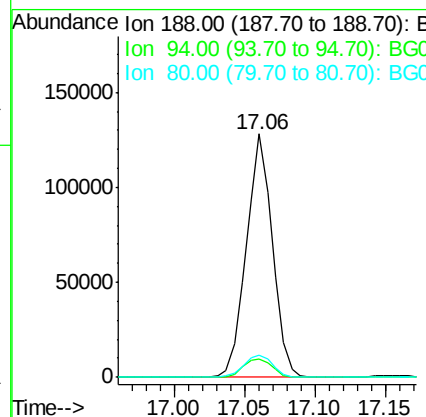
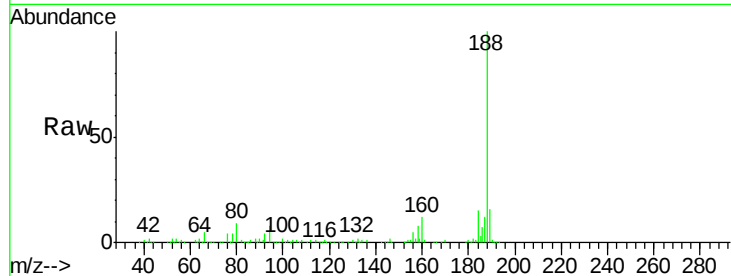
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.06 min Scan# 2446
Delta R.T. -0.05 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Instrument :
BNA_G
ClientSampleId :
HY-SB403B(5-5.5)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	7.7	5.8	8.6
80	9.2	6.5	9.7

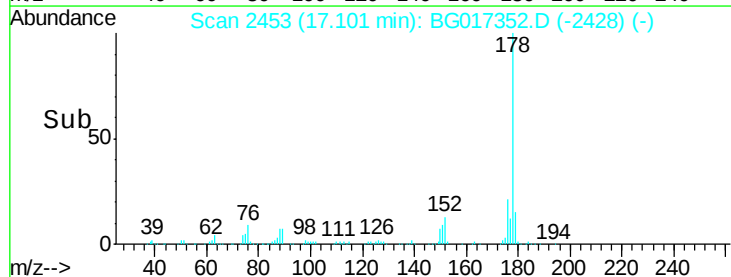
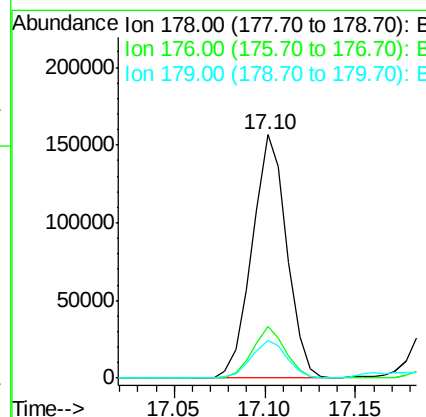
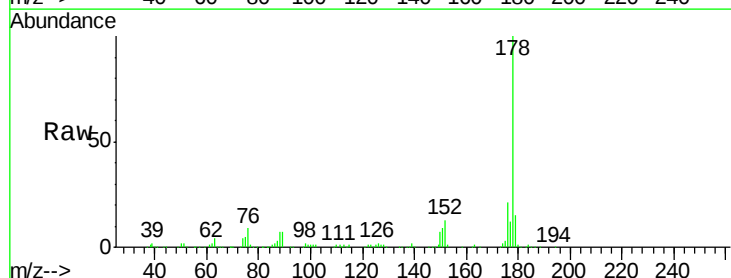
Manual Integrations
APPROVED

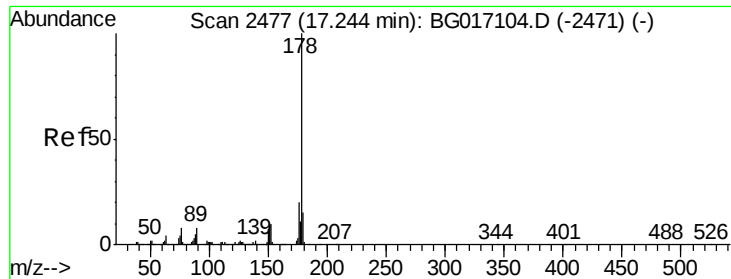
apatel
5/29/2015 5:44:44 PM



#70
Phenanthrene
Concen: 24.42 ng
RT: 17.10 min Scan# 2453
Delta R.T. -0.05 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	21.0	15.4	23.2
179	15.4	12.5	18.7





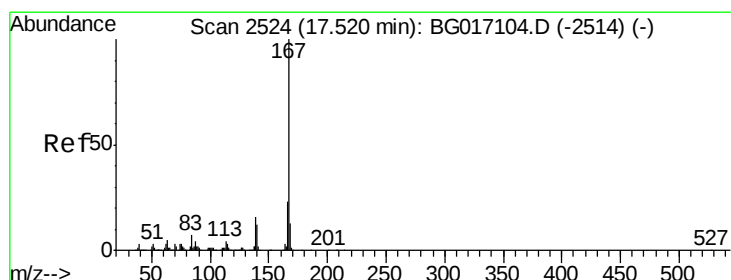
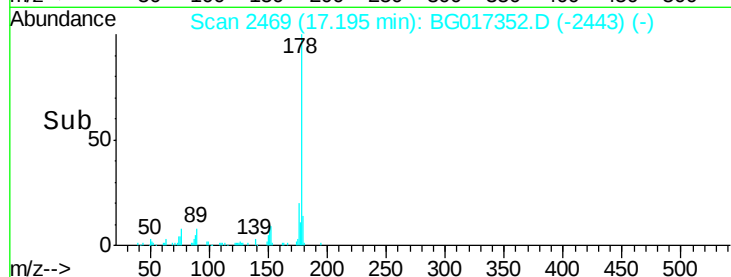
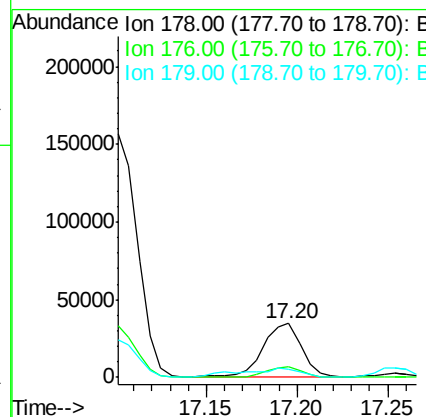
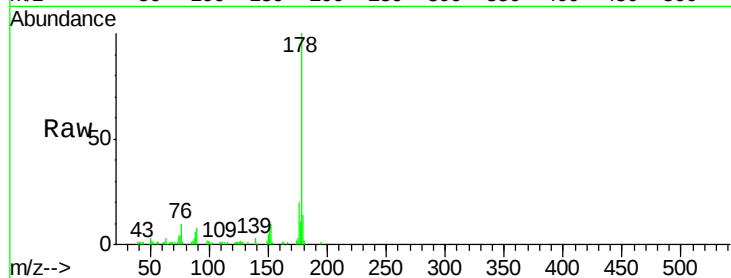
#71
 Anthracene
 Concen: 5.80 ng
 RT: 17.20 min Scan# 2469
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.3	24.5
179	14.0	12.1	18.1

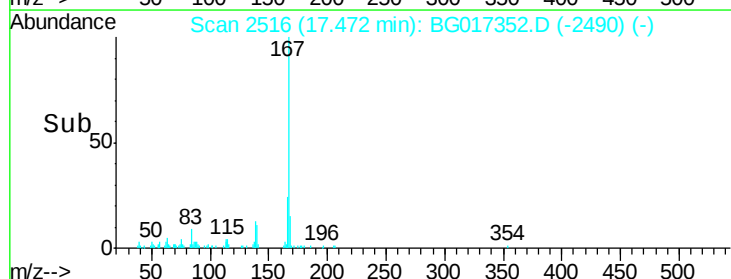
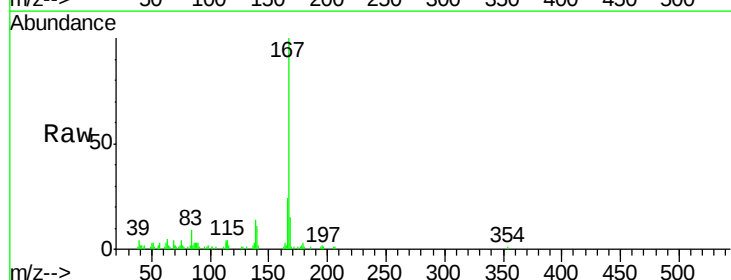
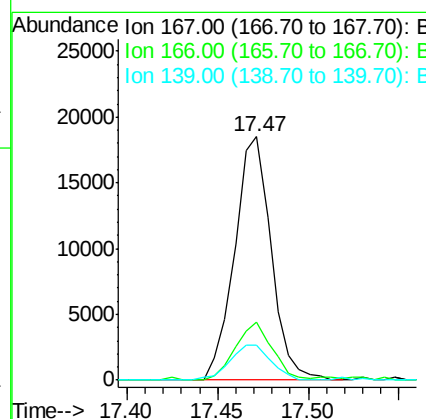
Manual Integrations
 APPROVED

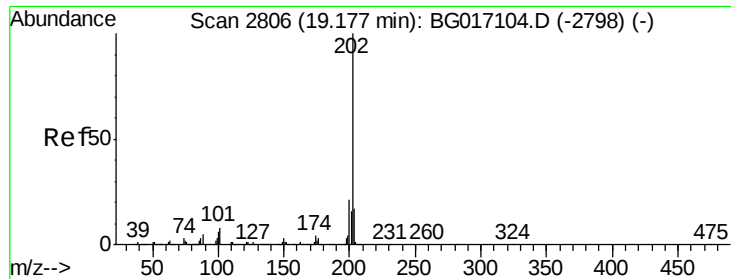
apatel
 5/29/2015 5:44:44 PM



#72
 Carbazole
 Concen: 3.27 ng
 RT: 17.47 min Scan# 2516
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.6	18.4	27.6
139	14.2	13.0	19.4





#74

Fluoranthene

Concen: 39.39 ng

RT: 19.12 min Scan# 2797

Delta R.T. -0.05 min

Lab File: BG017352.D

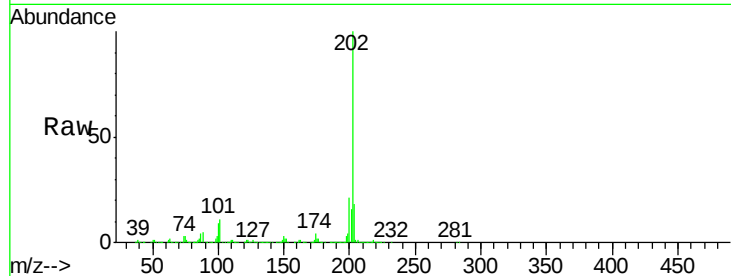
Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

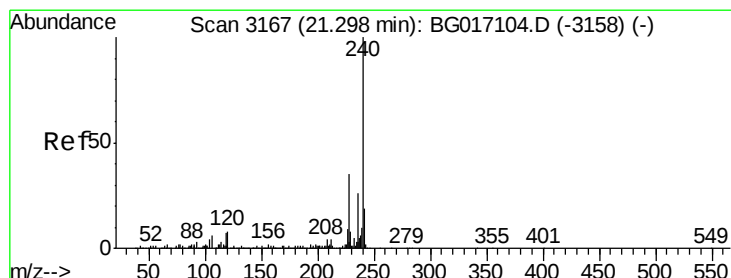
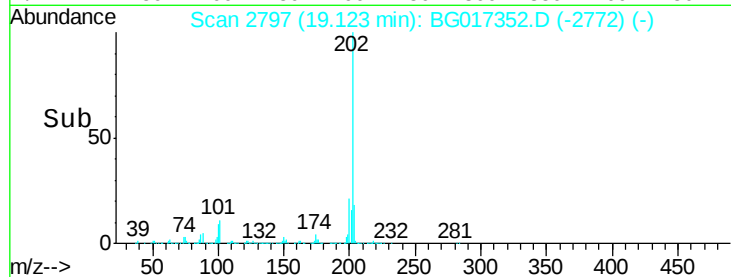
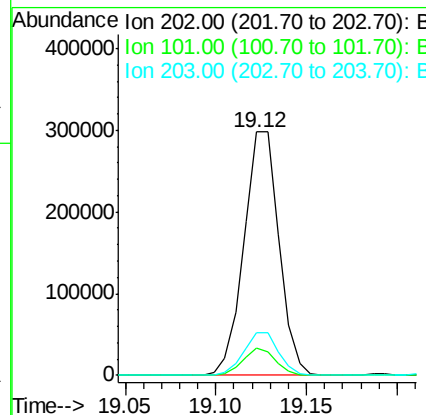
HY-SB403B(5-5.5)



Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	11.3	0.0	28.3
203	17.7	0.0	37.4

Manual Integrations
APPROVED

apatel
5/29/2015 5:44:44 PM



#75

Chrysene-d12

Concen: 20.00 ng

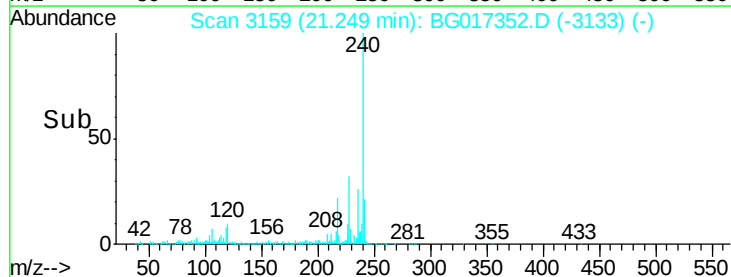
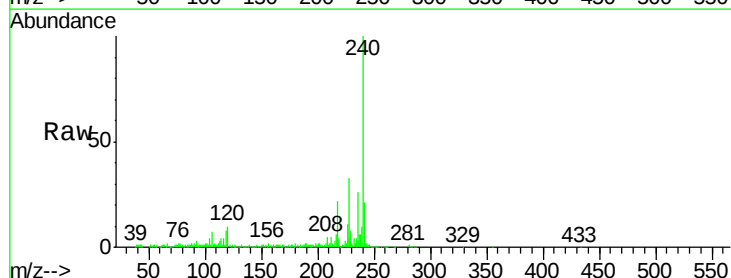
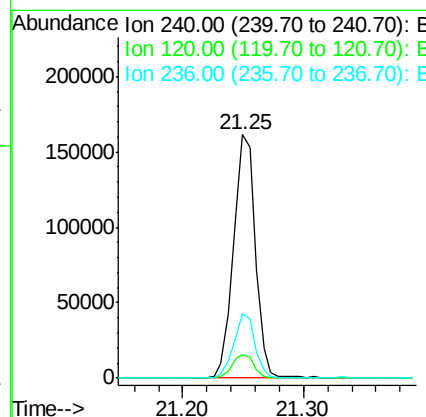
RT: 21.25 min Scan# 3159

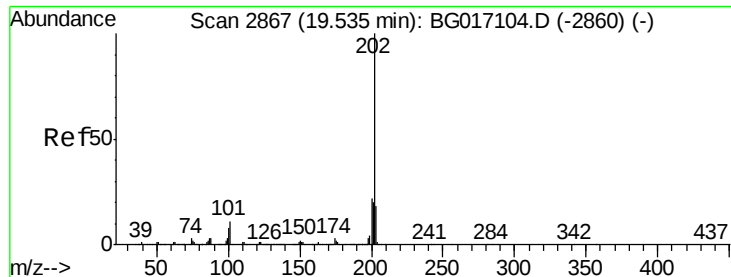
Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	9.6	6.0	9.0#
236	26.3	20.5	30.7





#77

Pyrene

Concen: 32.96 ng

RT: 19.49 min Scan# 2859

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

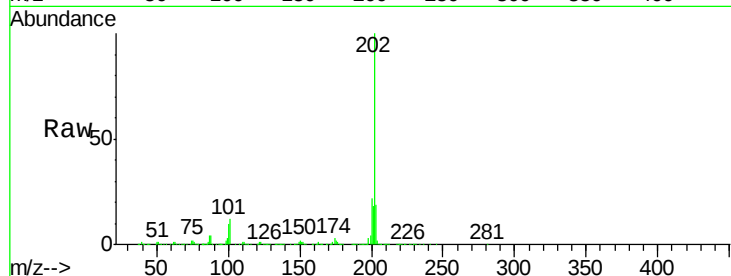
ClientSampleId :

HY-SB403B(5-5.5)

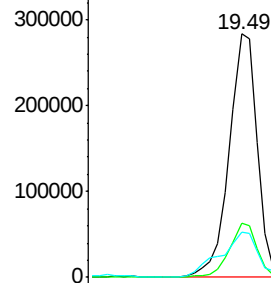
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		409072		
200	22.3	17.8	26.8		
203	18.6	14.4	21.6		

Manual Integrations
APPROVED

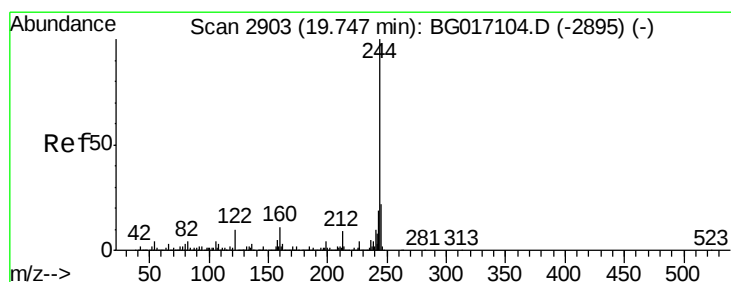
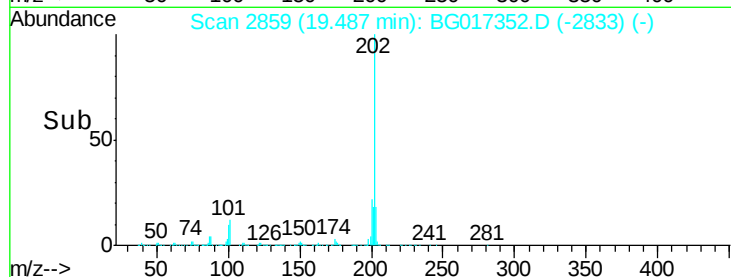
apatel
5/29/2015 5:44:44 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 33.75 ng

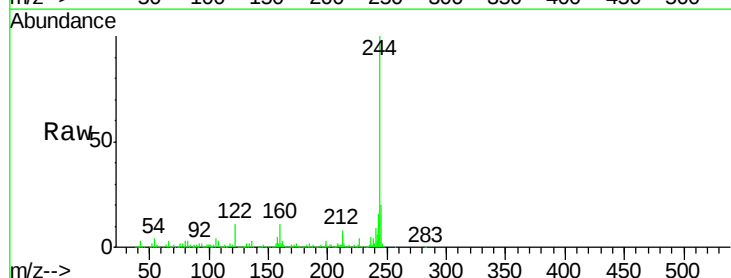
RT: 19.69 min Scan# 2894

Delta R.T. -0.05 min

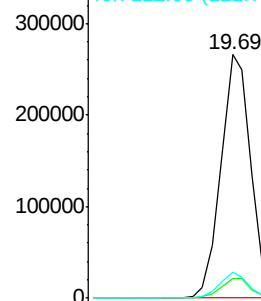
Lab File: BG017352.D

Acq: 29 May 2015 9:21

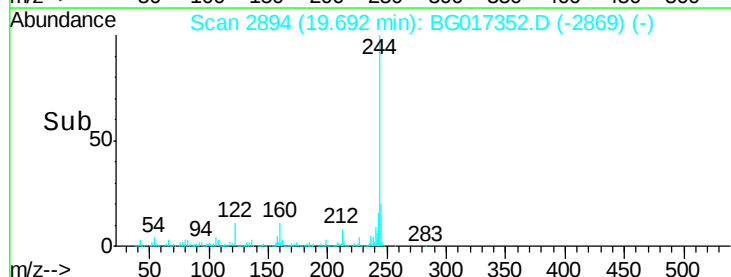
Tgt	Ion	Ratio	Resp	Lower	Upper
244	100		327609		
212	8.0	7.0	10.4		
122	10.5	8.4	12.6		

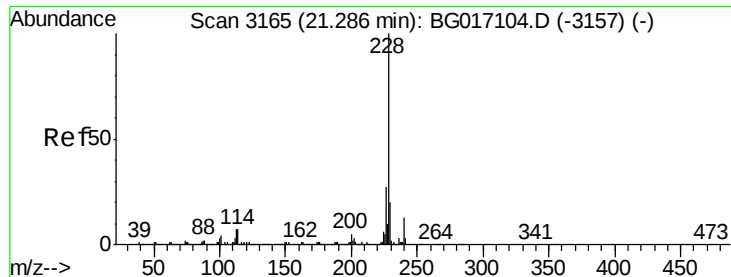


Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->





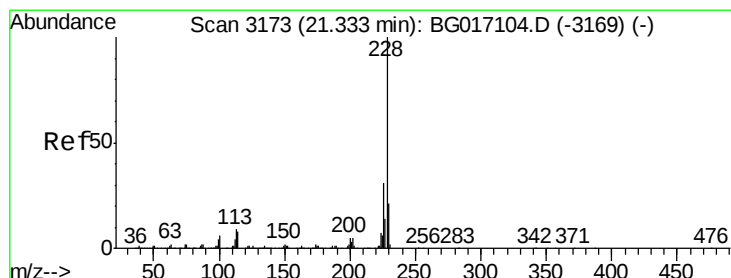
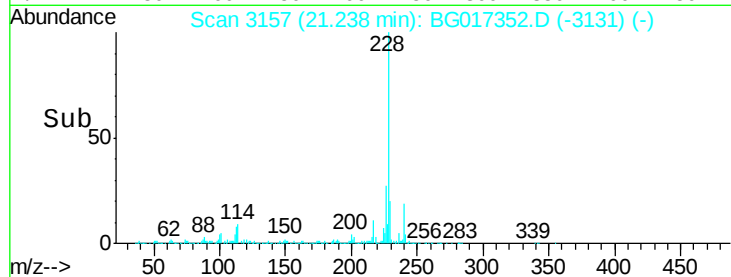
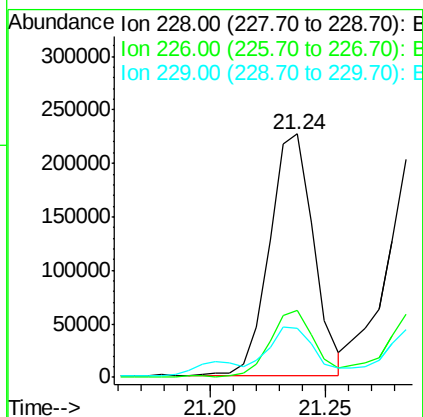
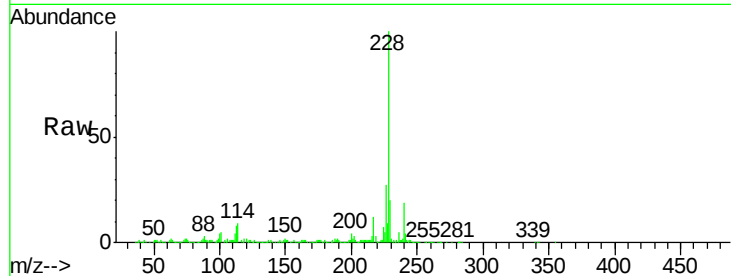
#80
Benzo(a)anthracene
Concen: 25.84 ng
RT: 21.24 min Scan# 3157
Delta R.T. -0.05 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Instrument :
BNA_G
ClientSampleId :
HY-SB403B(5-5.5)

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	27.3	21.7	32.5
229	20.3	16.1	24.1

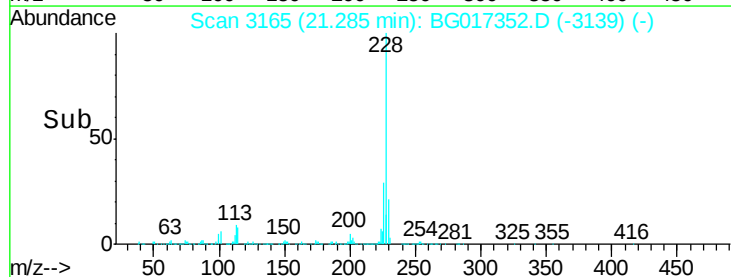
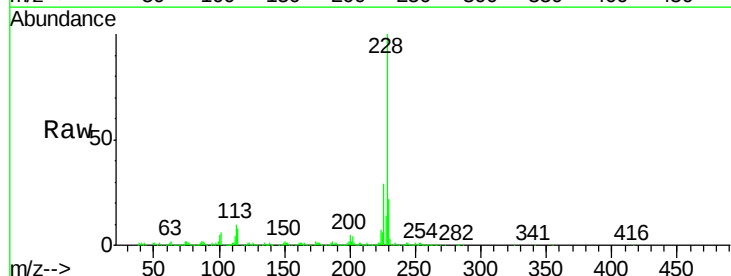
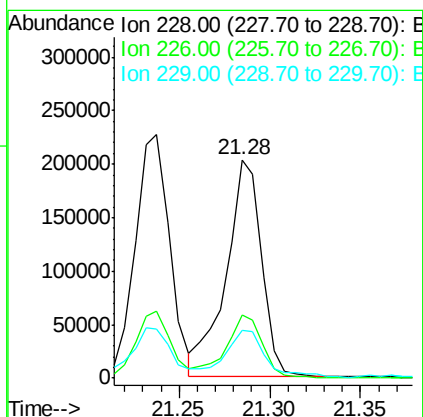
Manual Integrations
APPROVED

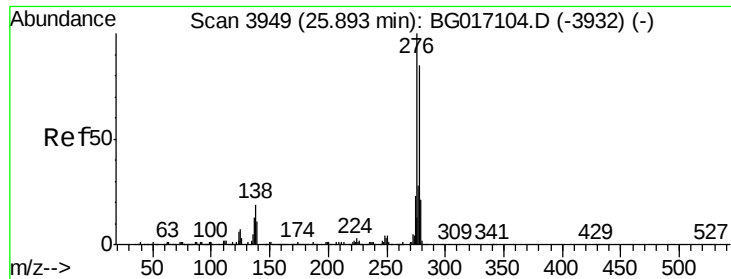
apatel
5/29/2015 5:44:44 PM



#82
Chrysene
Concen: 25.72 ng
RT: 21.28 min Scan# 3165
Delta R.T. -0.05 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.0	24.8	37.2
229	21.7	17.0	25.6





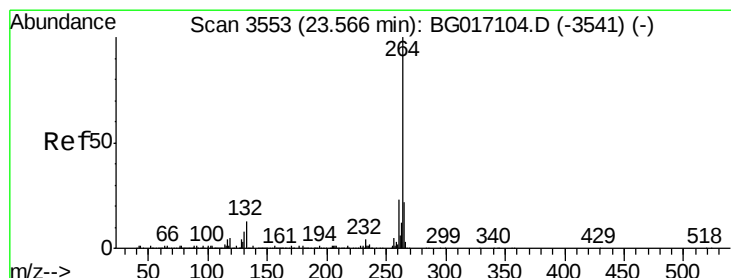
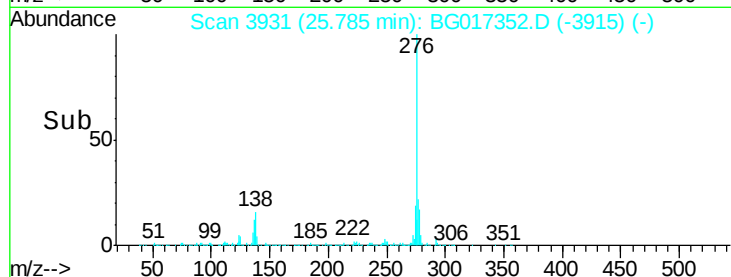
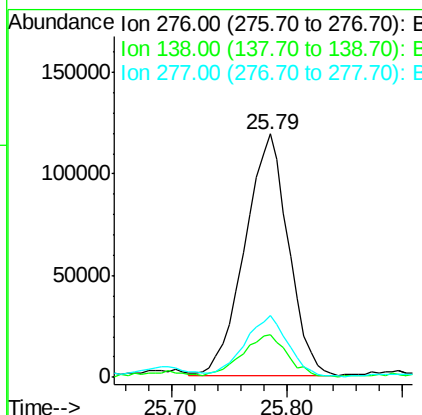
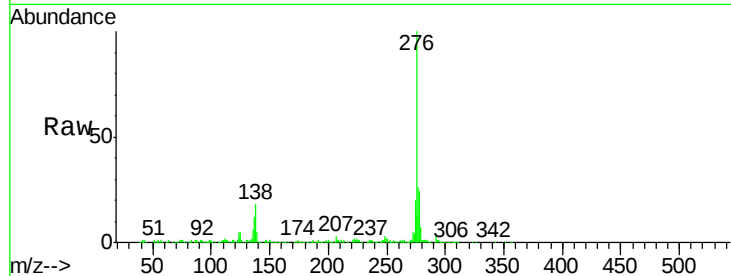
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 24.11 ng
 RT: 25.79 min Scan# 3931
 Delta R.T. -0.11 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	18.1	16.0	24.0
277	25.5	20.9	31.3

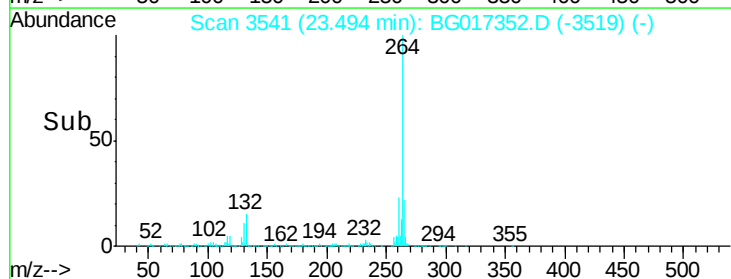
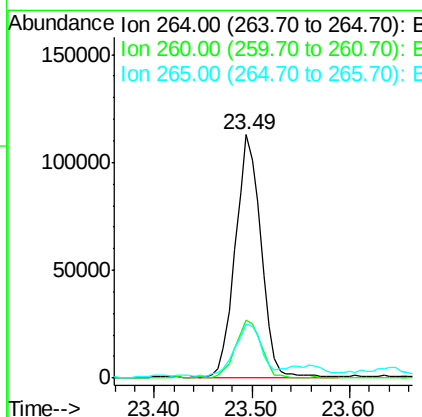
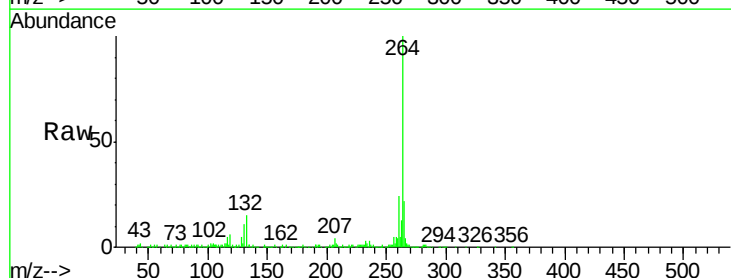
Manual Integrations
 APPROVED

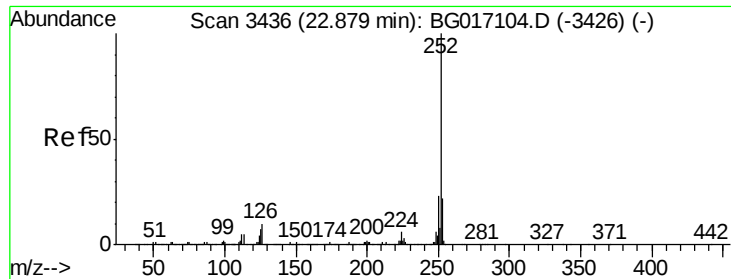
apatel
 5/29/2015 5:44:44 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 23.49 min Scan# 3541
 Delta R.T. -0.07 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.7	18.0	27.0
265	22.5	17.4	26.0





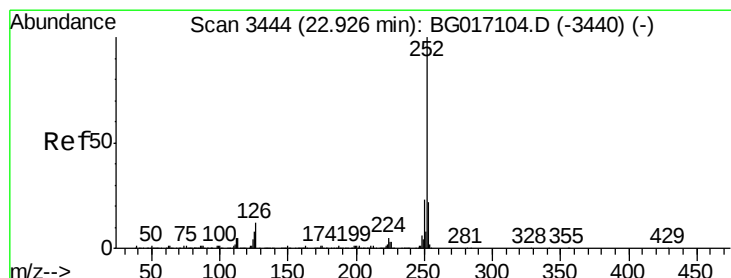
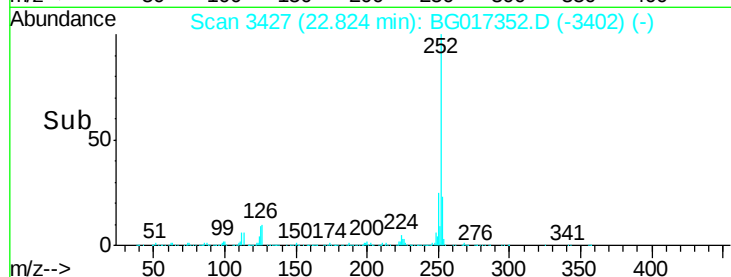
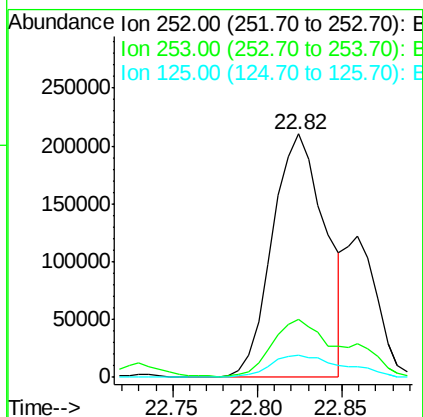
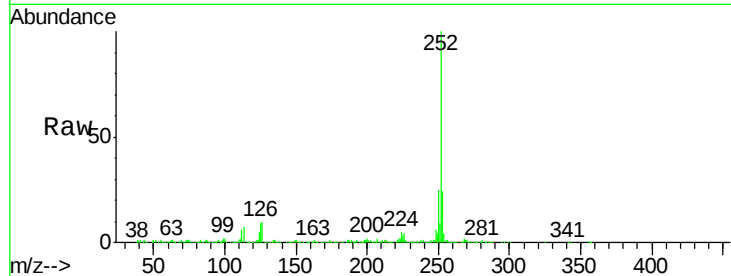
#87
Benzo(b)fluoranthene
Concen: 38.19 ng
RT: 22.82 min Scan# 3427
Delta R.T. -0.05 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Instrument :
BNA_G
ClientSampleId :
HY-SB403B(5-5.5)

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	456770		
253	23.8	17.4	26.2	
125	9.0	5.9	8.9#	

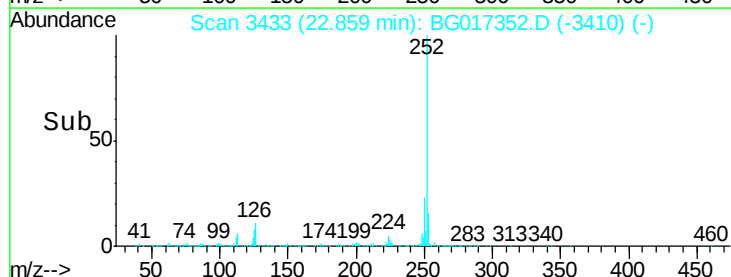
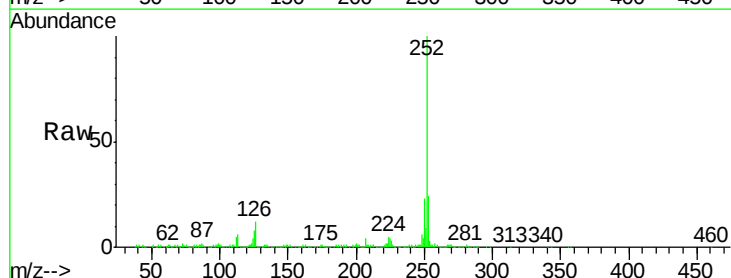
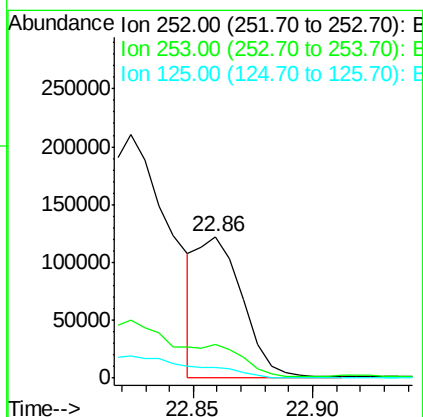
Manual Integrations
APPROVED

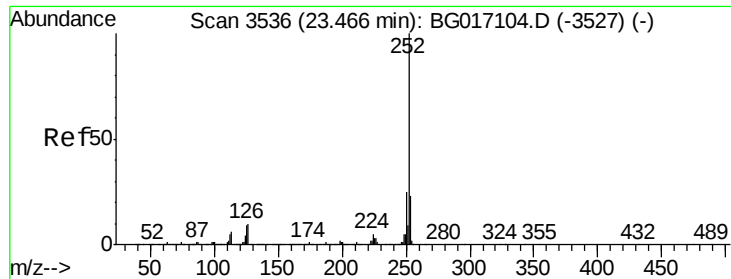
apatel
5/29/2015 5:44:44 PM



#88
Benzo(k)fluoranthene
Concen: 14.18 ng m
RT: 22.86 min Scan# 3433
Delta R.T. -0.07 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	160995		
253	24.0	17.8	26.6	
125	7.8	6.4	9.6	





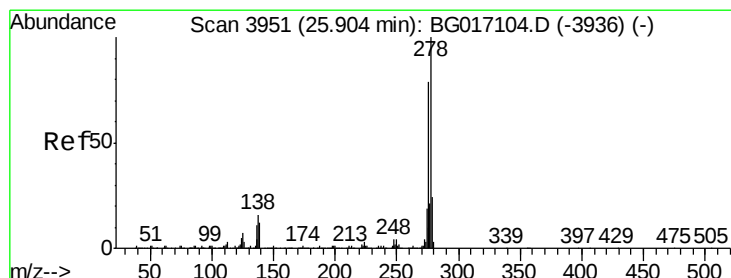
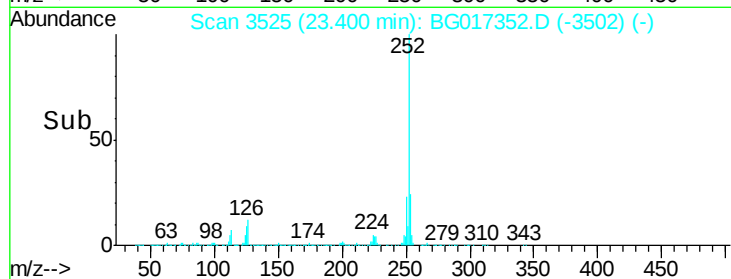
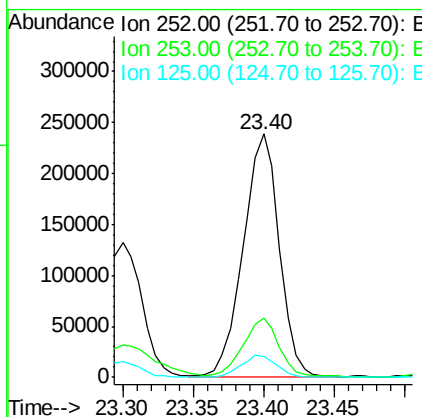
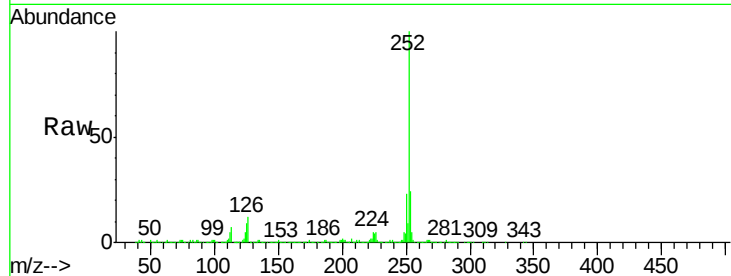
#89
Benzo(a)pyrene
Concen: 38.47 ng
RT: 23.40 min Scan# 3525
Delta R.T. -0.07 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Instrument :
BNA_G
ClientSampleId :
HY-SB403B(5-5.5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.4	27.6
125	8.8	7.2	10.8

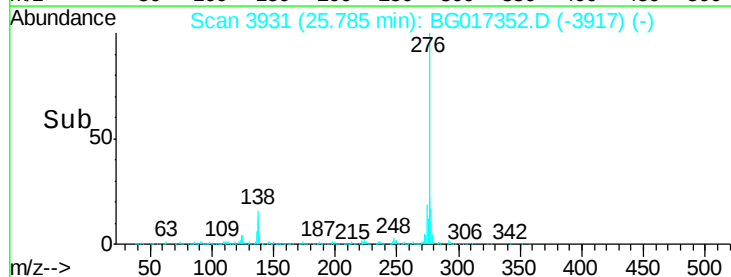
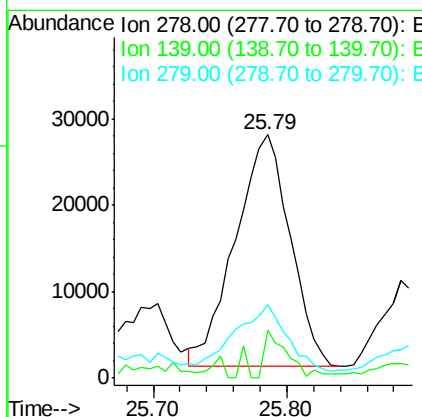
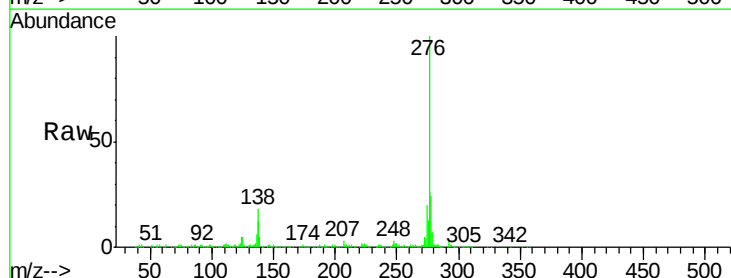
Manual Integrations
APPROVED

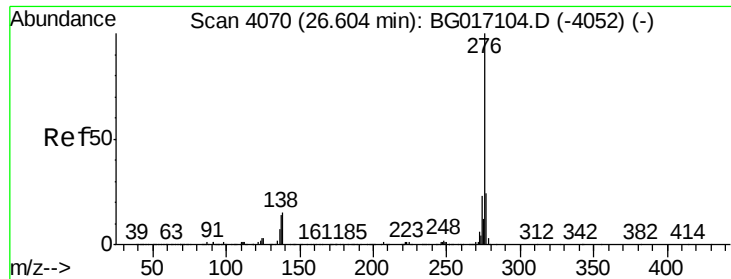
apatel
5/29/2015 5:44:44 PM



#90
Dibenzo(a,h)anthracene
Concen: 6.77 ng
RT: 25.79 min Scan# 3931
Delta R.T. -0.12 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.8	9.4	14.2#
279	30.2	19.1	28.7#





#91
 Benzo(g,h,i)perylene
 Concen: 28.73 ng
 RT: 26.50 min Scan# 4052
 Delta R.T. -0.11 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Tgt Ion:	276	Resp:	304872
Ion Ratio		Lower	Upper
276	100		
277	23.8	18.9	28.3
138	18.5	11.8	17.8#

Manual Integrations
 APPROVED

apatel
 5/29/2015 5:44:44 PM

