

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060615\
 Data File : BG017529.D
 Acq On : 7 Jun 2015 11:40
 Operator : TP/IZ
 Sample : G2457-11
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SP-6

Manual Integrations
 APPROVED

apatel
 6/8/2015 6:00:55 PM

Quant Time: Jun 08 07:51:50 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 04 01:31:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	19906	20.00	ng	0.00
21) Naphthalene-d8	10.42	136	89196	20.00	ng	0.00
38) Acenaphthene-d10	14.29	164	52963	20.00	ng	0.00
63) Phenanthrene-d10	17.04	188	111906	20.00	ng	0.00
75) Chrysene-d12	21.24	240	128640	20.00	ng	0.00
86) Perylene-d12	23.48	264	127983	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	154899	137.09	ng	0.00
7) Phenol-d6	6.83	99	206788	134.34	ng	0.00
23) Nitrobenzene-d5	8.78	82	146484	81.98	ng	0.00
41) 2,4,6-Tribromophenol	15.79	330	82849	112.62	ng	0.00
44) 2-Fluorobiphenyl	12.91	172	288421	82.15	ng	0.00
78) Terphenyl-d14	19.68	244	372564	59.86	ng	0.00

Target Compounds						Qvalue
31) Naphthalene	10.46	128	22061	4.73	ng	99
37) 2-Methylnaphthalene	12.09	142	7291	2.04	ng	# 91
48) Acenaphthylene	14.01	152	11678	2.05	ng	95
49) Dimethylphthalate	13.75	163	44258	9.60	ng	# 98
51) Acenaphthene	14.35	154	18164	5.40	ng	# 89
54) Dibenzofuran	14.69	168	17482	3.53	ng	93
57) Fluorene	15.34	166	21784	4.84	ng	89
70) Phenanthrene	17.08	178	307791	49.33	ng	100
71) Anthracene	17.17	178	68226	10.95	ng	98
72) Carbazole	17.45	167	27962	4.54	ng	99
74) Fluoranthene	19.11	202	490134	60.07	ng	99
77) Pyrene	19.48	202	438631	55.35	ng	97
80) Benzo(a)anthracene	21.22	228	234887	29.69	ng	98
82) Chrysene	21.27	228	207460	28.96	ng	96
85) Indeno(1,2,3-cd)pyrene	25.76	276	125516	13.95	ng	# 95
87) Benzo(b)fluoranthene	22.81	252	269225m	33.20	ng	
88) Benzo(k)fluoranthene	22.84	252	101979m	13.14	ng	
89) Benzo(a)pyrene	23.38	252	208464	28.03	ng	98
90) Dibenzo(a,h)anthracene	25.76	278	35476	4.59	ng	# 88
91) Benzo(g,h,i)perylene	26.46	276	117258	15.94	ng	99

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

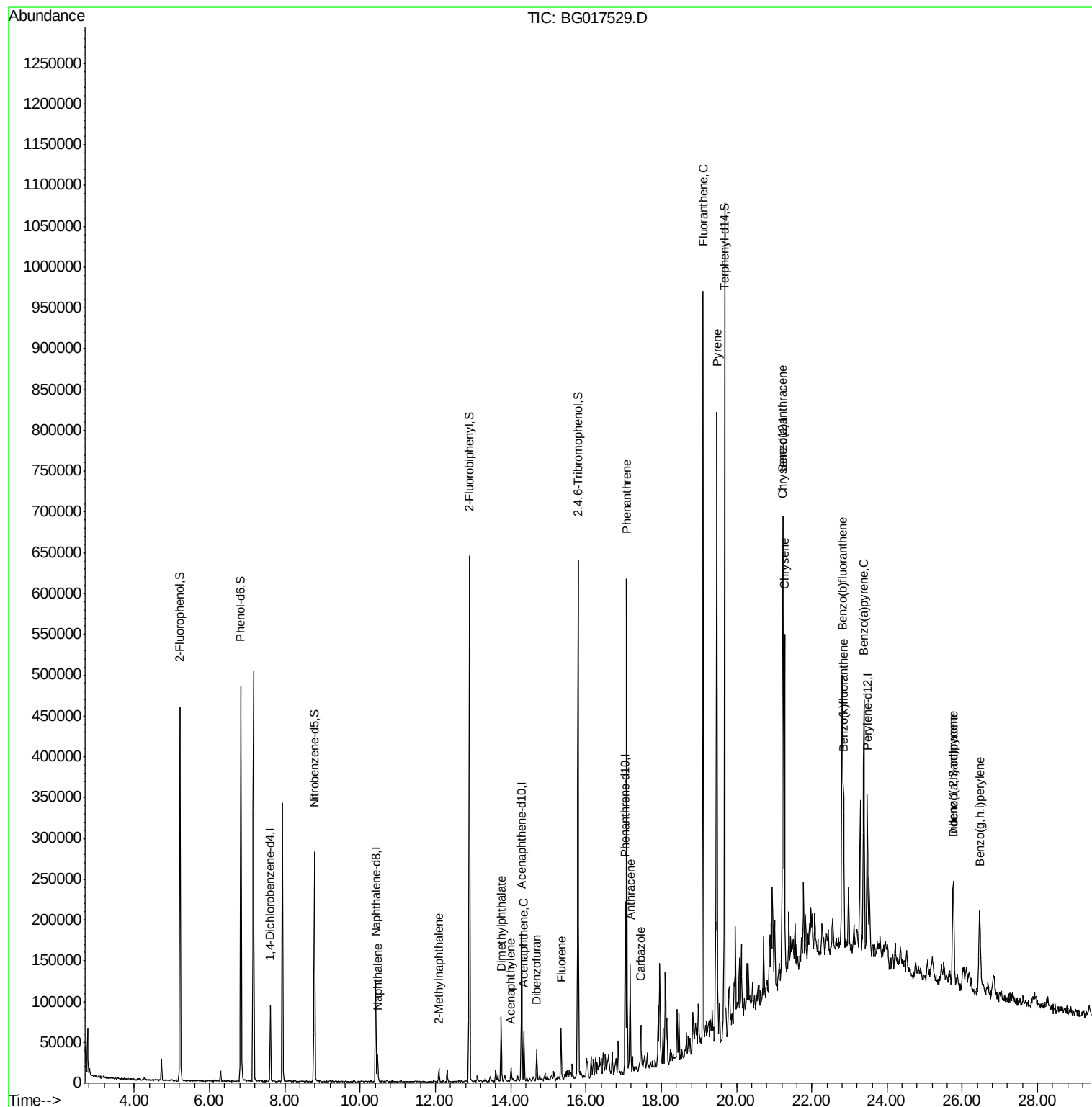
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060615\
Data File : BG017529.D
Acq On : 7 Jun 2015 11:40
Operator : TP/IZ
Sample : G2457-11
Misc :
ALS Vial : 24 Sample Multiplier: 1

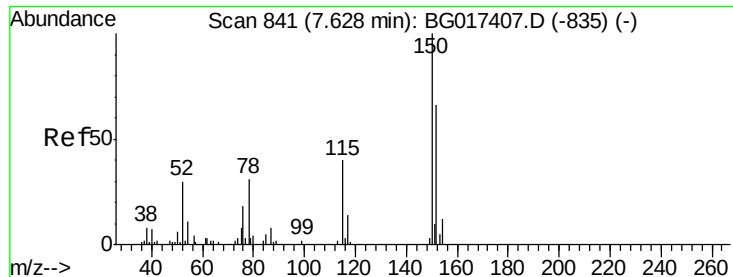
Instrument :
BNA_G
ClientSampleId :
SP-6

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM

Quant Time: Jun 08 07:51:50 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 04 01:31:15 2015
Response via : Initial Calibration





#1

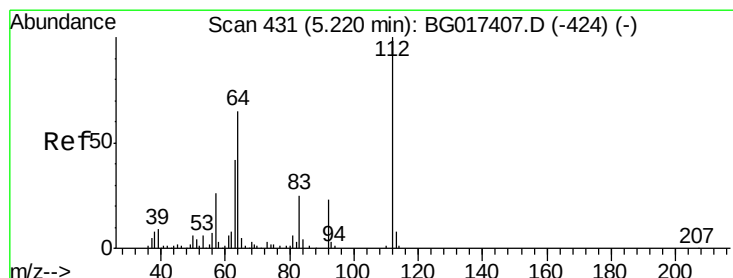
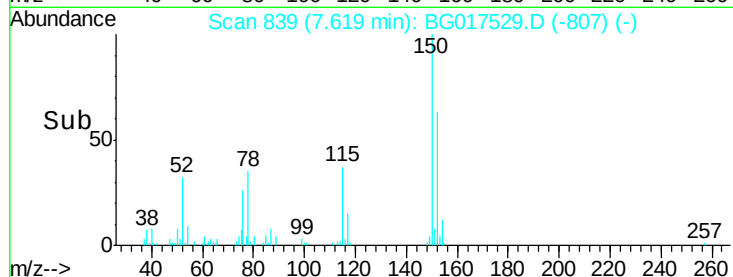
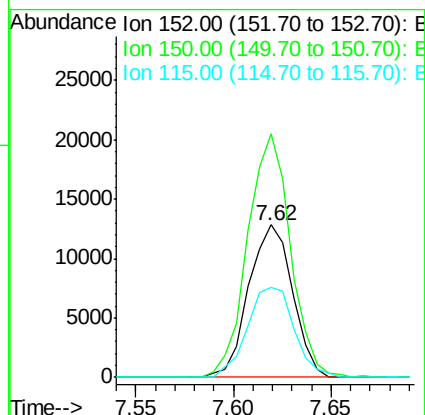
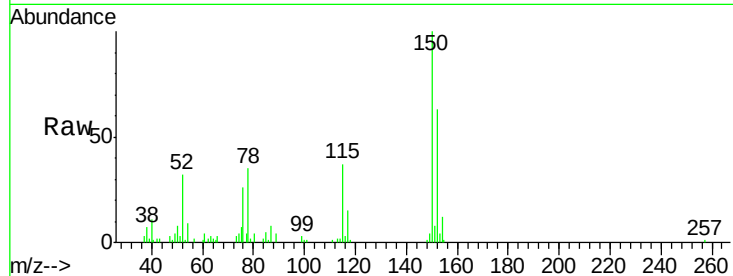
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.62 min Scan# 839
Delta R.T. -0.01 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Instrument :
BNA_G
ClientSampled :
SP-6

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.7	121.7	182.5
115	58.8	48.6	73.0

Manual Integrations
APPROVED

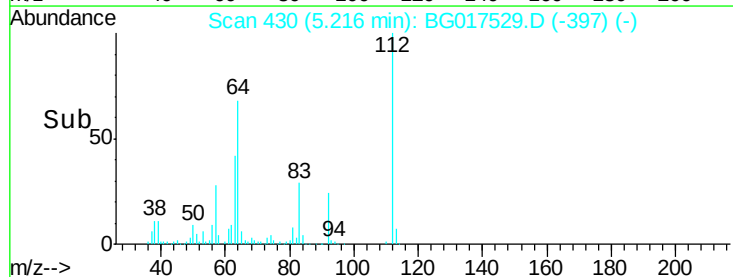
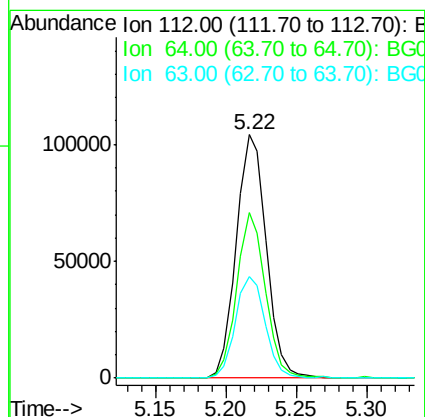
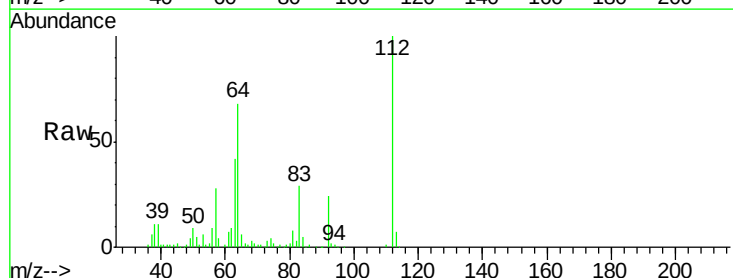
apatel
6/8/2015 6:00:55 PM

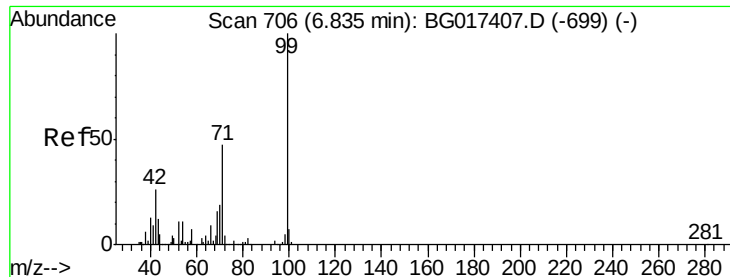


#5

2-Fluorophenol
Concen: 137.09 ng
RT: 5.22 min Scan# 430
Delta R.T. -0.00 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.8	51.6	77.4
63	41.9	33.3	49.9





#7

Phenol-d6

Concen: 134.34 ng

RT: 6.83 min Scan# 705

Delta R.T. -0.00 min

Lab File: BG017529.D

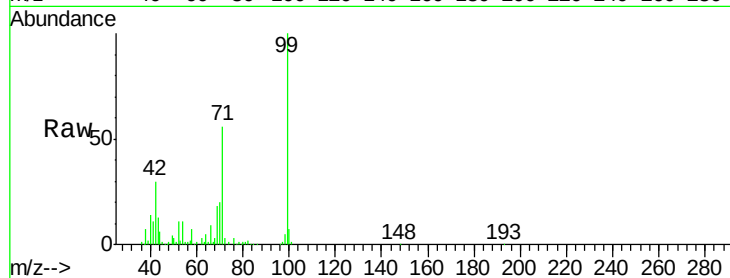
Acq: 7 Jun 2015 11:40

Instrument :

BNA_G

ClientSampleId :

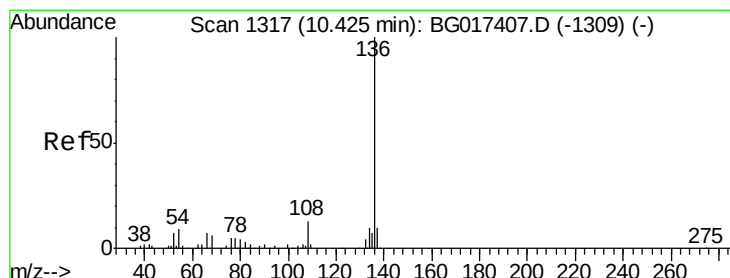
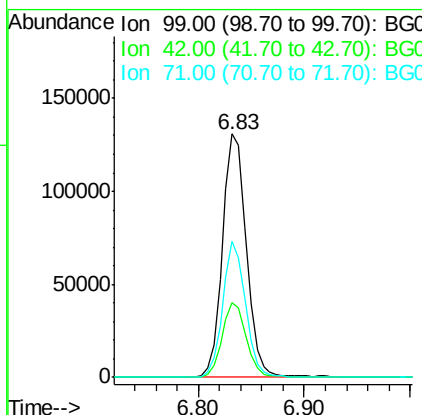
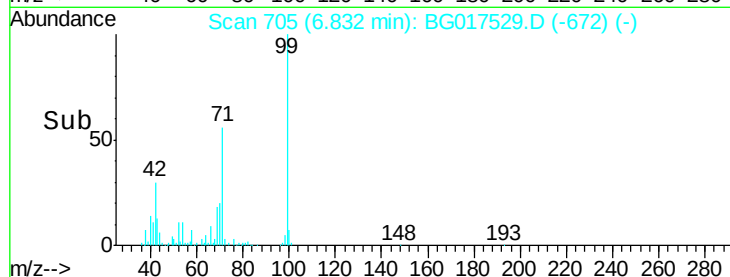
SP-6



Tgt Ion	Ratio	Resp	Lower	Upper
99	100	206788		
42	30.5	21.0	31.6	
71	55.7	37.2	55.8	

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM



#21

Naphthalene-d8

Concen: 20.00 ng

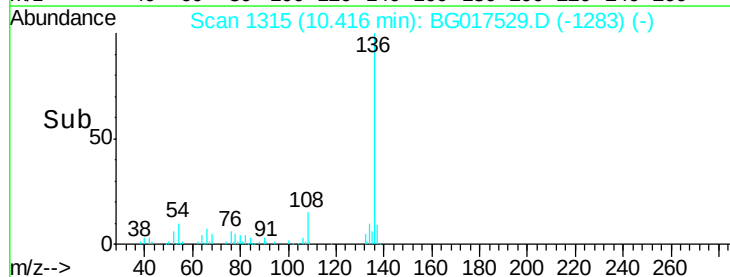
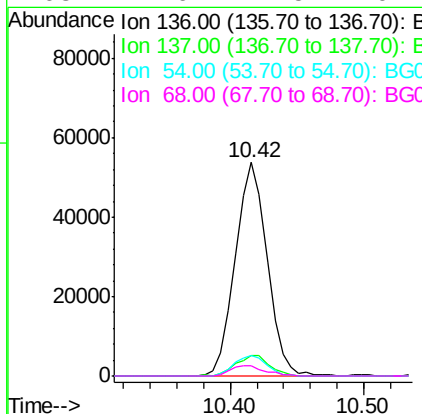
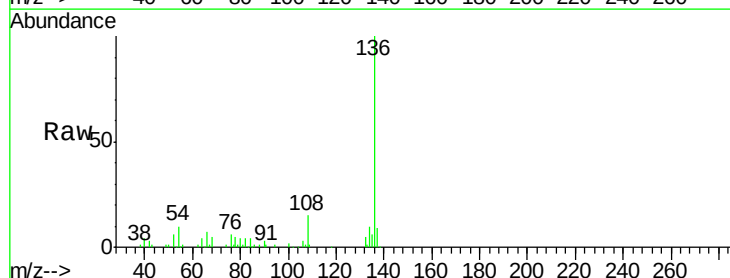
RT: 10.42 min Scan# 1315

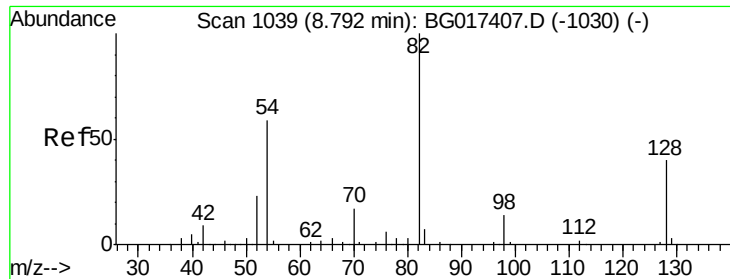
Delta R.T. -0.01 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	89196		
137	9.5	7.9	11.9	
54	9.8	7.2	10.8	
68	4.6	4.5	6.7	





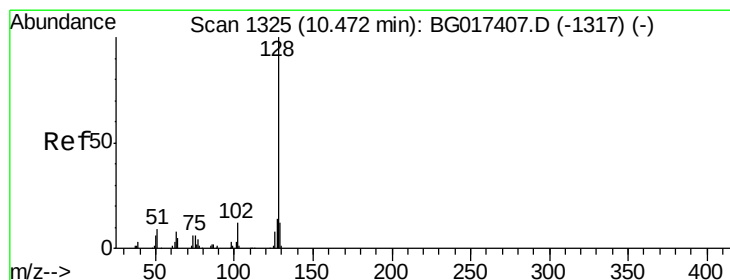
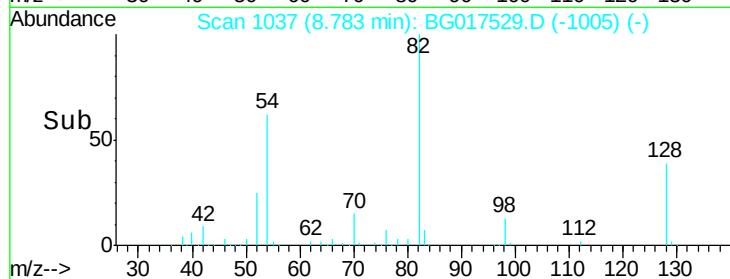
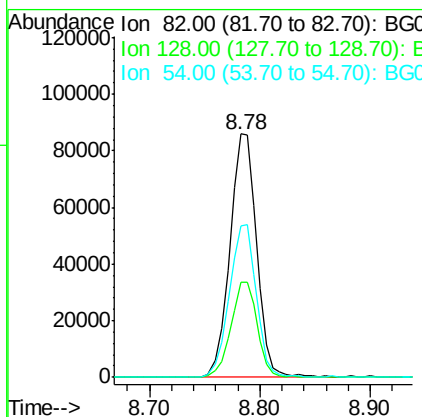
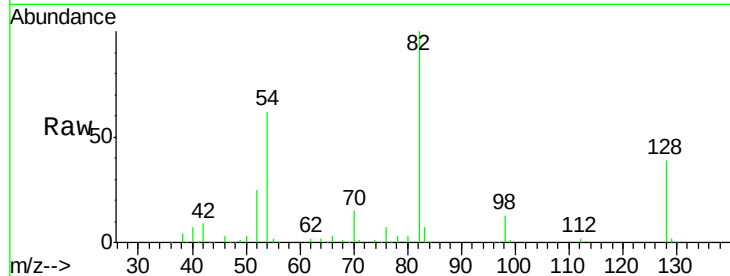
#23
Nitrobenzene-d5
Concen: 81.98 ng
RT: 8.78 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Instrument :
BNA_G
ClientSampled :
SP-6

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	146484		
128	38.8	32.2	48.4	
54	62.0	47.4	71.2	

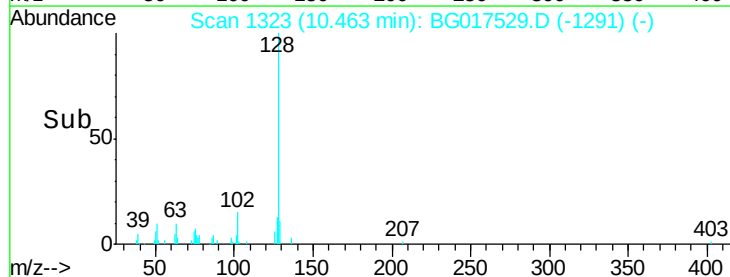
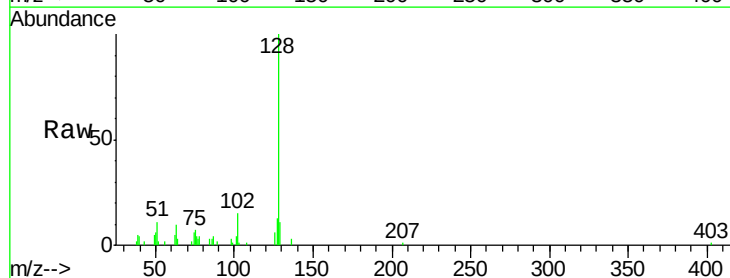
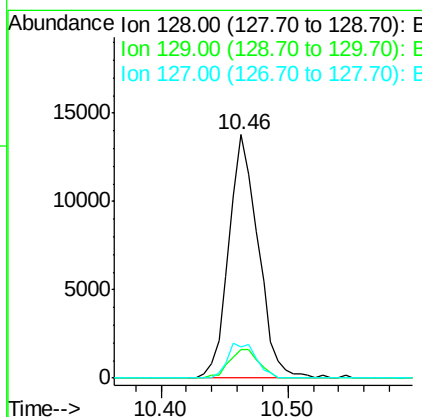
Manual Integrations
APPROVED

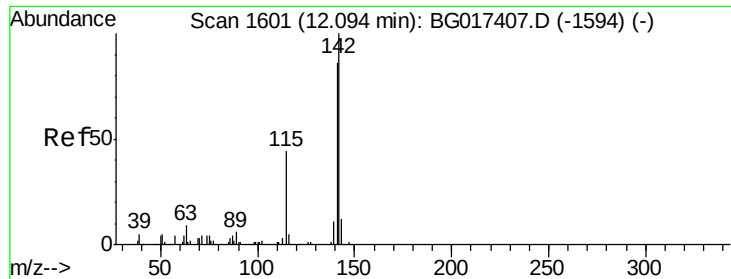
apatel
6/8/2015 6:00:55 PM



#31
Naphthalene
Concen: 4.73 ng
RT: 10.46 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	22061		
129	11.5	9.2	13.8	
127	12.8	10.9	16.3	





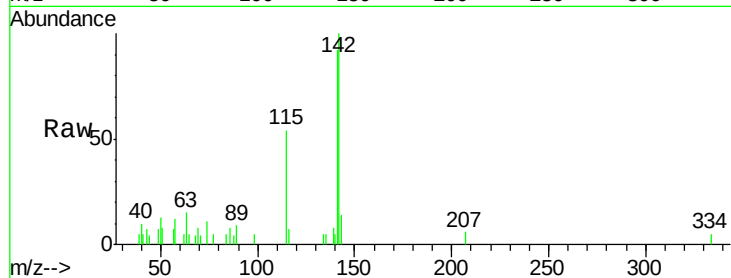
#37
2-Methylnaphthalene
Concen: 2.04 ng
RT: 12.09 min Scan# 1600
Delta R.T. -0.00 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Instrument :
BNA_G
ClientSampled :
SP-6

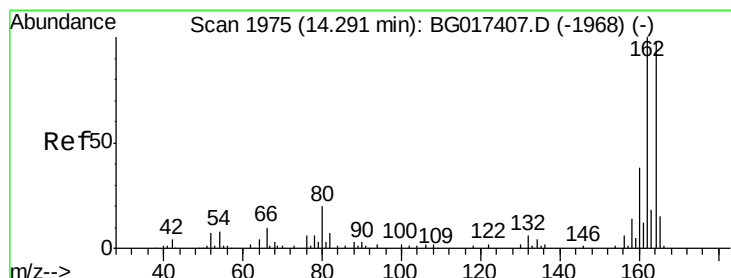
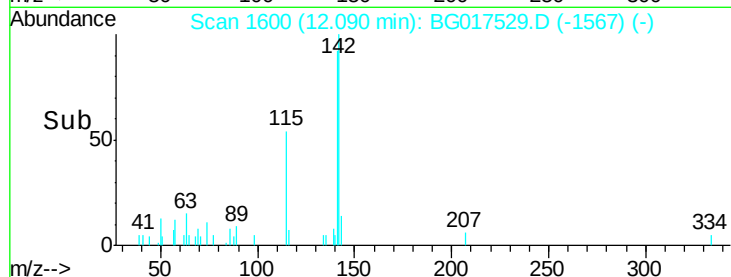
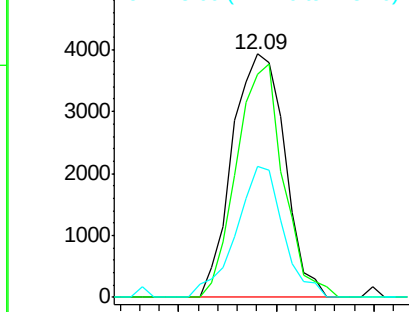
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	68.6	102.8
115	53.8	35.3	52.9

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM

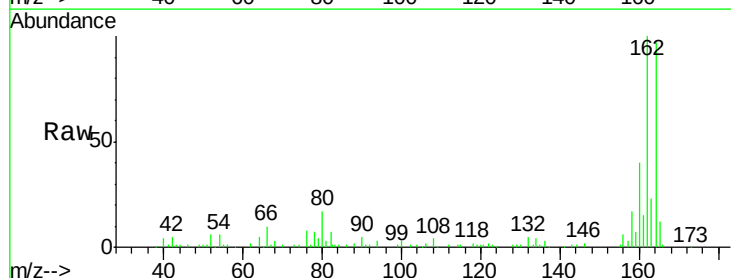


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

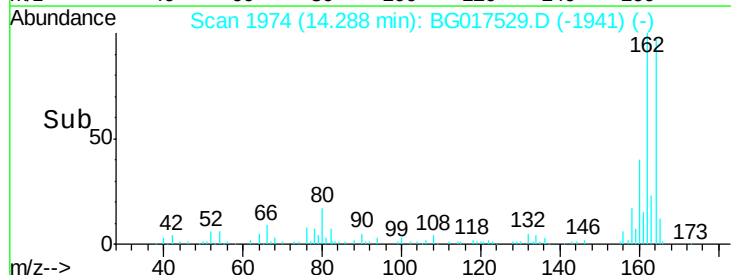
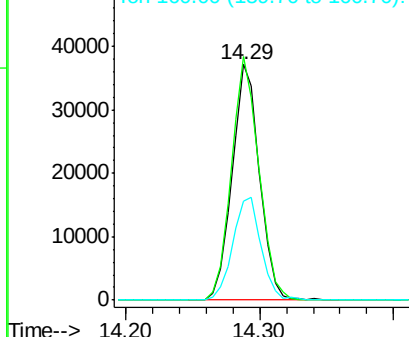


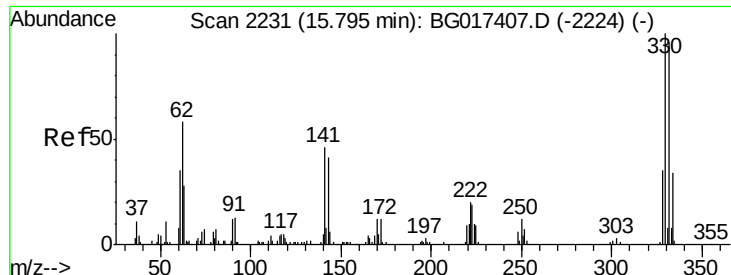
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.29 min Scan# 1974
Delta R.T. -0.00 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	81.8	122.6
160	41.7	31.0	46.4



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





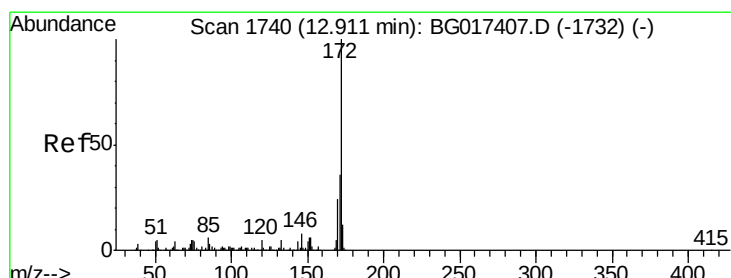
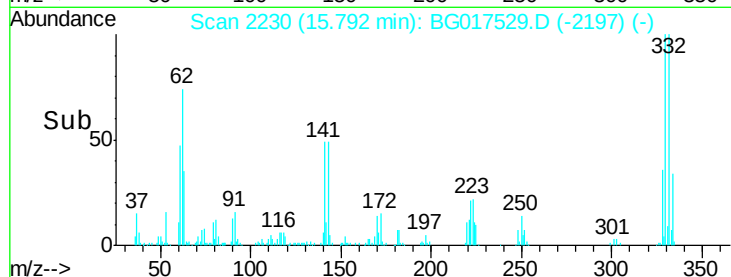
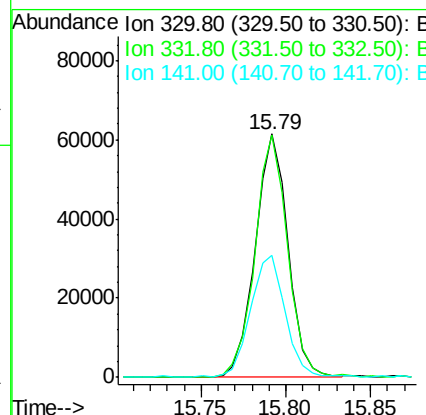
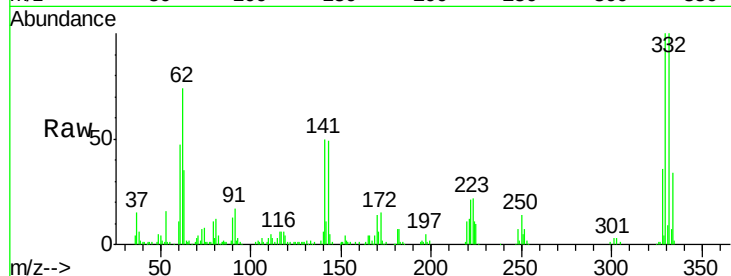
#41
 2,4,6-Tribromophenol
 Concen: 112.62 ng
 RT: 15.79 min Scan# 2230
 Delta R.T. -0.00 min
 Lab File: BG017529.D
 Acq: 7 Jun 2015 11:40

Instrument :
 BNA_G
 ClientSampled :
 SP-6

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	82849		
332	99.3	75.9	113.9	
141	53.3	40.2	60.4	

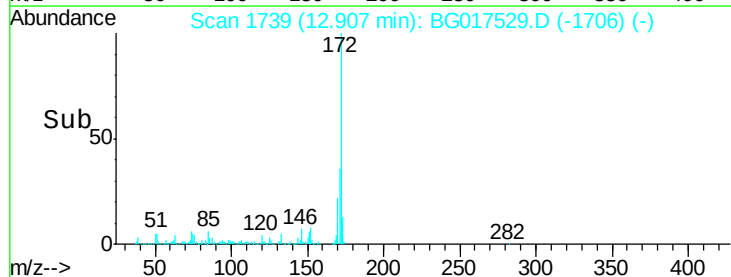
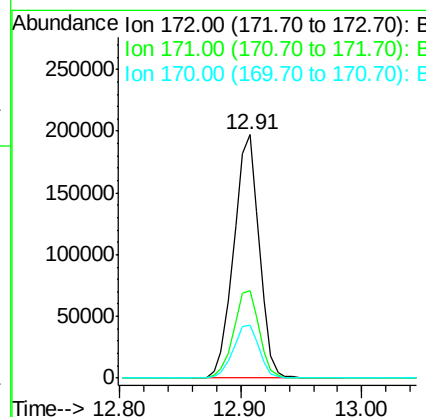
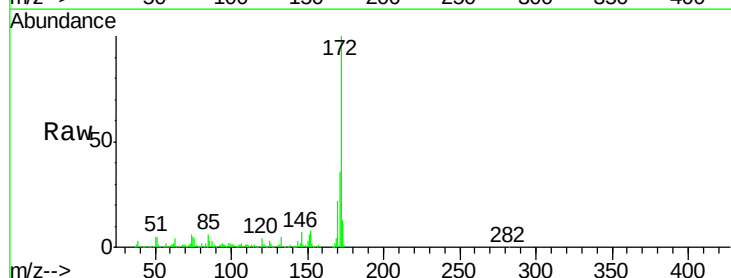
Manual Integrations
 APPROVED

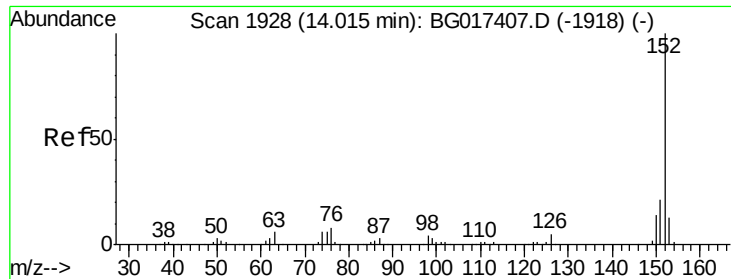
apatel
 6/8/2015 6:00:55 PM



#44
 2-Fluorobiphenyl
 Concen: 82.15 ng
 RT: 12.91 min Scan# 1739
 Delta R.T. -0.00 min
 Lab File: BG017529.D
 Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	288421		
171	36.0	29.0	43.6	
170	21.8	18.9	28.3	





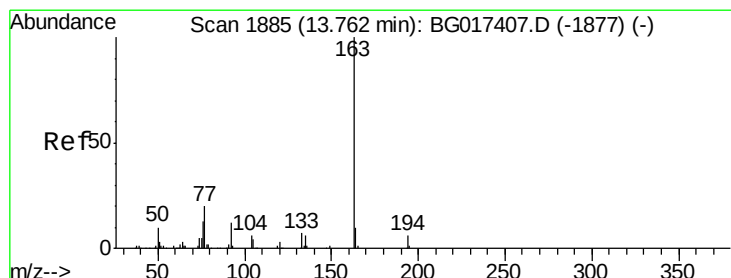
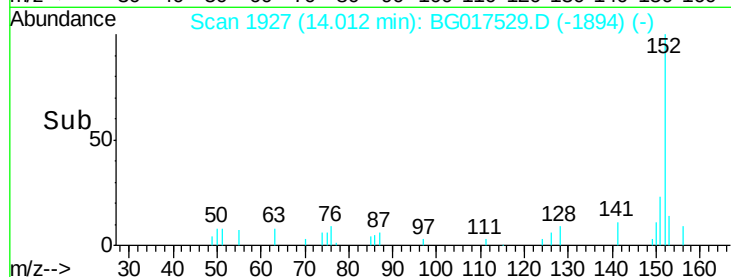
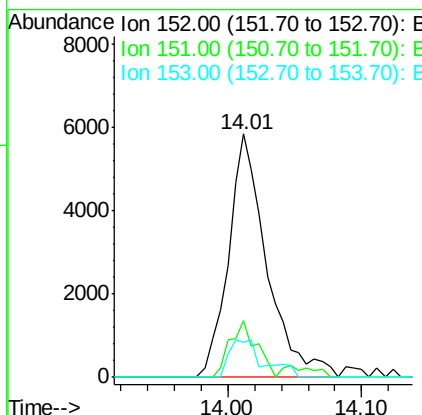
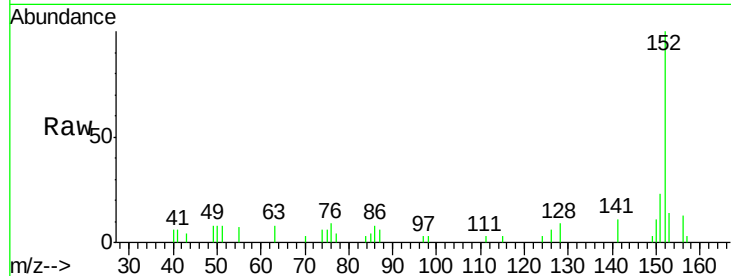
#48
Acenaphthylene
Concen: 2.05 ng
RT: 14.01 min Scan# 1927
Delta R.T. -0.00 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Instrument :
BNA_G
ClientSampleId :
SP-6

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	11678		
151	23.3	16.5	24.7	
153	14.5	10.7	16.1	

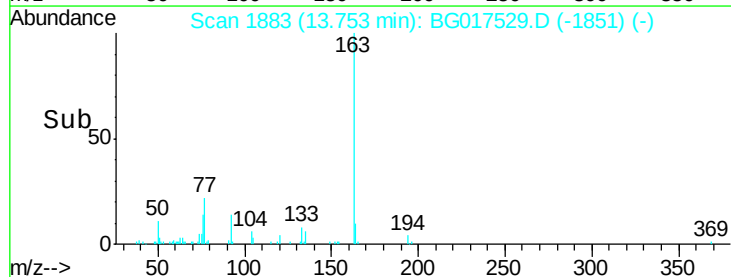
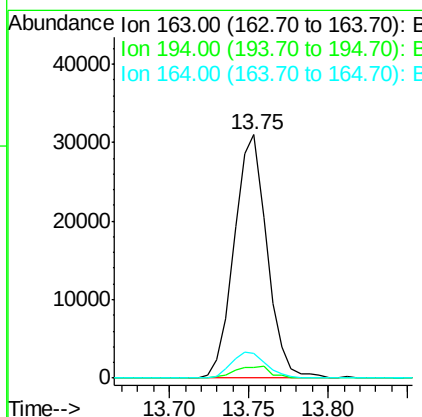
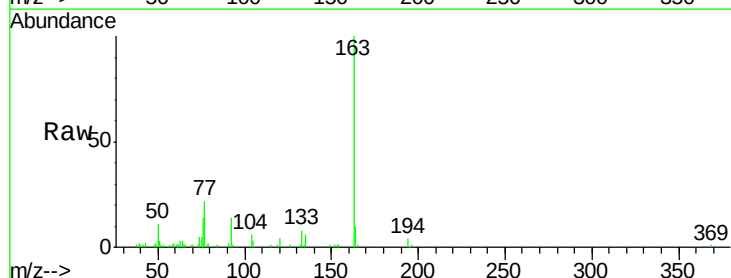
Manual Integrations
APPROVED

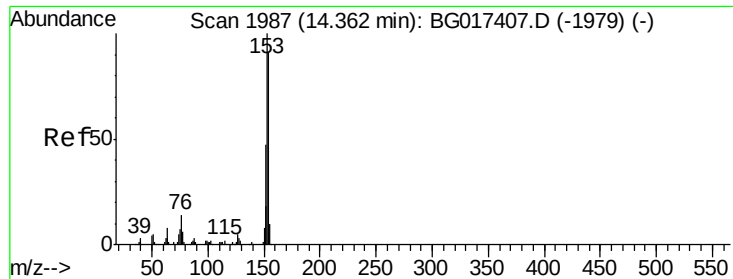
apatel
6/8/2015 6:00:55 PM



#49
Dimethylphthalate
Concen: 9.60 ng
RT: 13.75 min Scan# 1883
Delta R.T. -0.01 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	44258		
194	4.5	4.9	7.3#	
164	10.3	8.2	12.2	





#51

Acenaphthene

Concen: 5.40 ng

RT: 14.35 min Scan# 1985

Delta R.T. -0.01 min

Lab File: BG017529.D

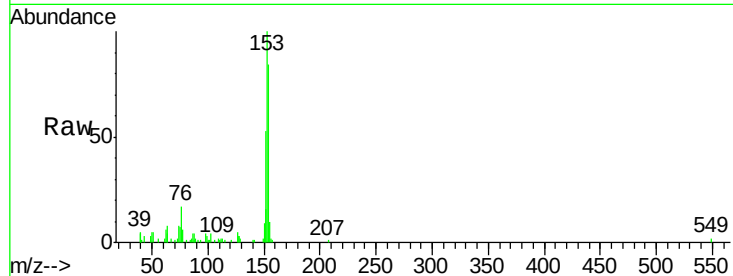
Acq: 7 Jun 2015 11:40

Instrument :

BNA_G

ClientSampleId :

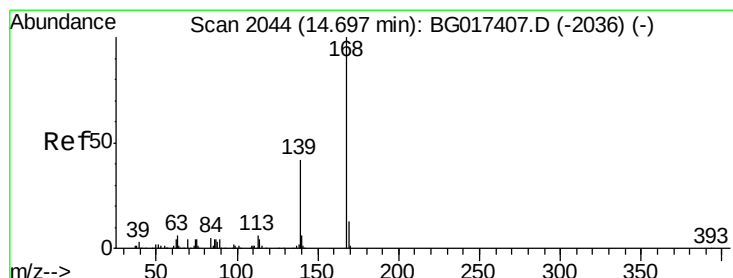
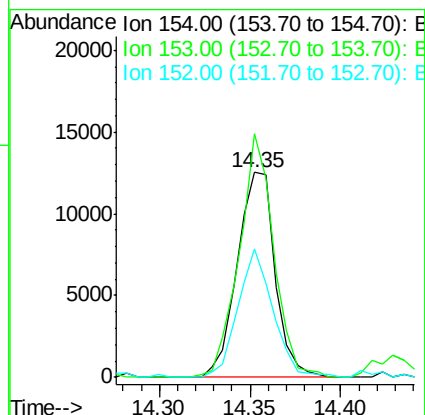
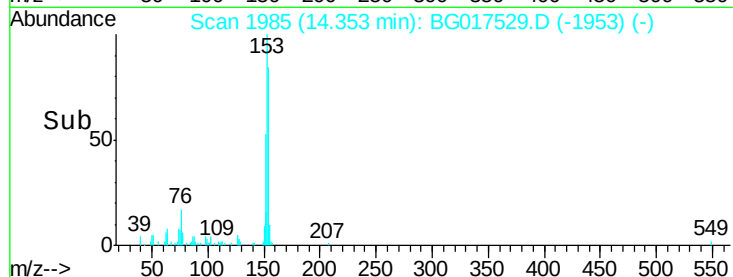
SP-6



Tgt Ion:	154	Resp:	18164
Ion Ratio	Lower	Upper	
154	100		
153	119.0	87.7	131.5
152	62.5	40.8	61.2#

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM



#54

Dibenzofuran

Concen: 3.53 ng

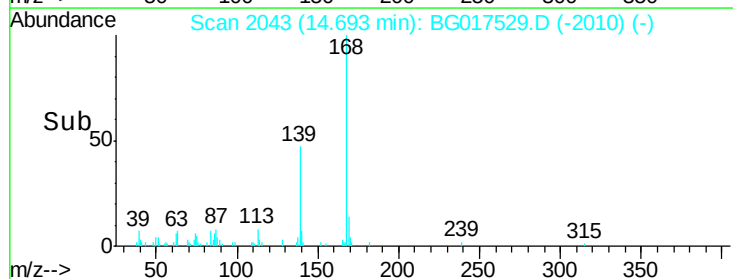
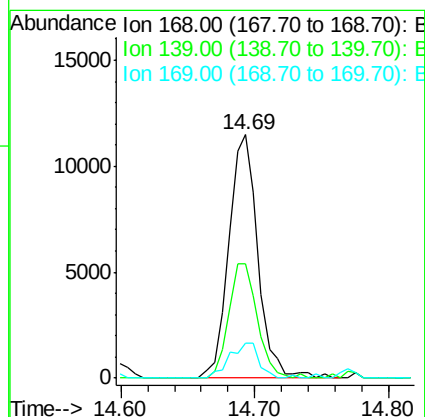
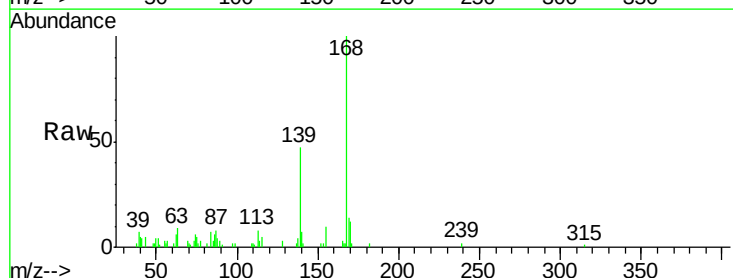
RT: 14.69 min Scan# 2043

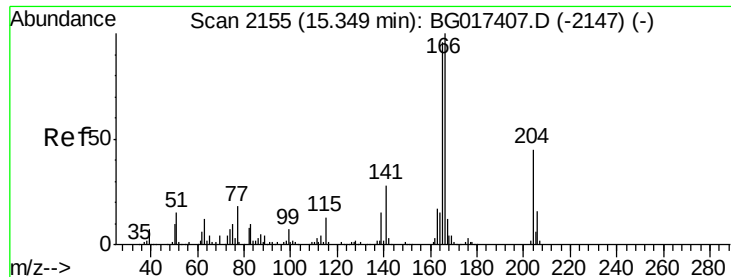
Delta R.T. -0.00 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Tgt Ion:	168	Resp:	17482
Ion Ratio	Lower	Upper	
168	100		
139	47.2	33.2	49.8
169	14.2	10.6	16.0





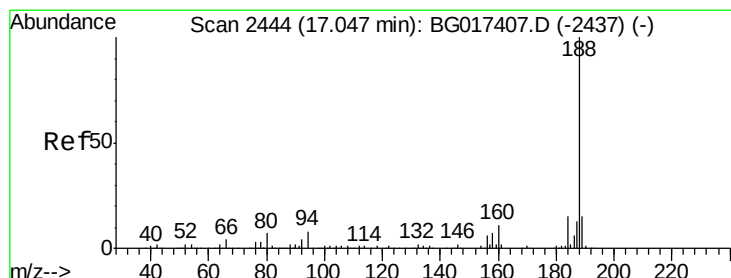
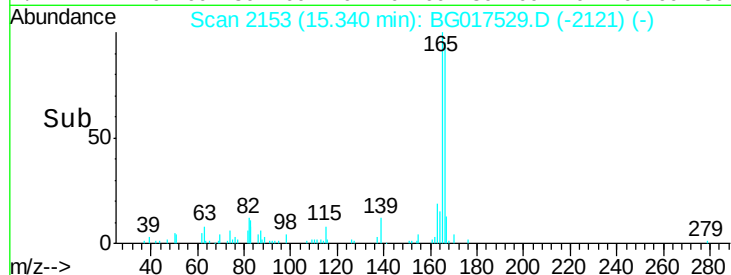
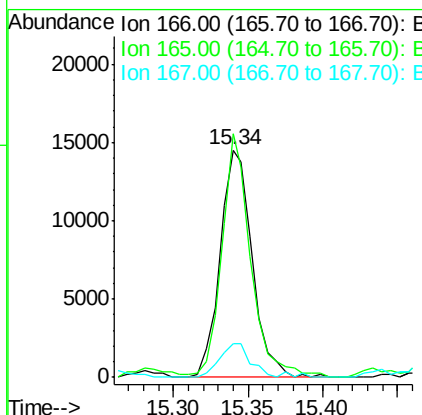
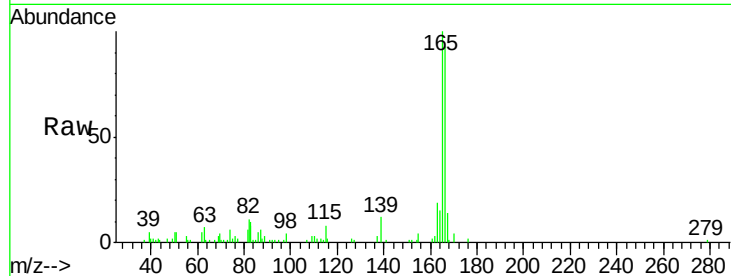
#57
Fluorene
 Concen: 4.84 ng
 RT: 15.34 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: BG017529.D
 Acq: 7 Jun 2015 11:40

Instrument :
 BNA_G
 ClientSampleId :
 SP-6

Tgt Ion	Ratio	Lower	Upper
166	100		
165	107.1	76.8	115.2
167	14.7	9.9	14.9

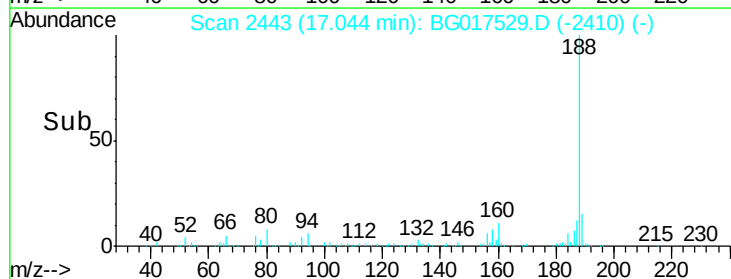
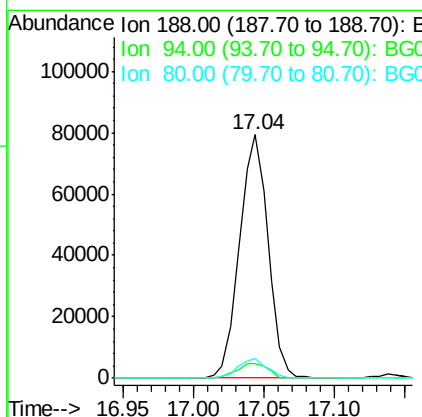
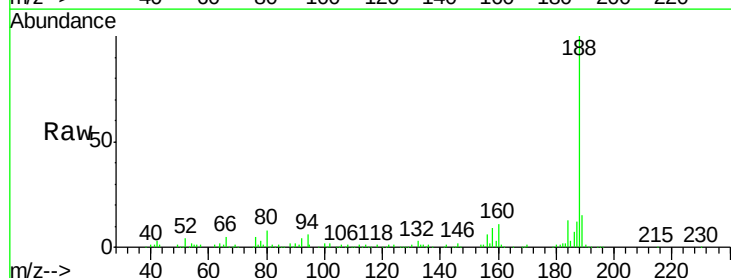
Manual Integrations
 APPROVED

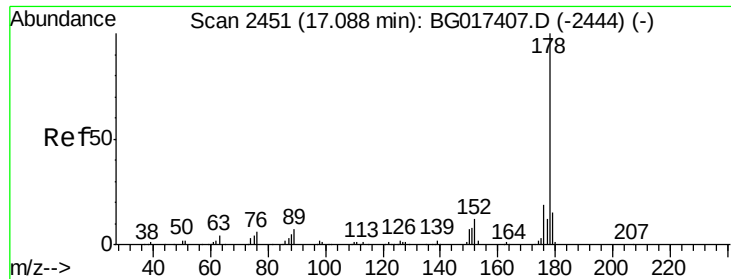
apatel
 6/8/2015 6:00:55 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.04 min Scan# 2443
 Delta R.T. -0.00 min
 Lab File: BG017529.D
 Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	6.1	6.3	9.5#
80	8.3	5.2	7.8#





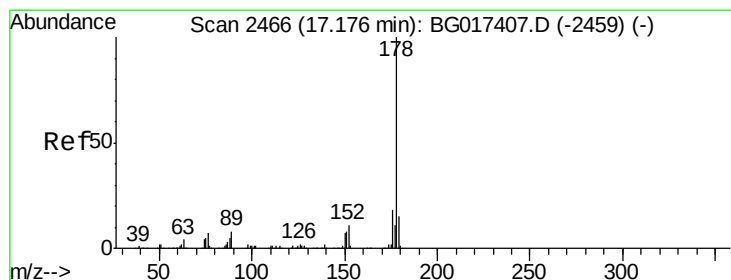
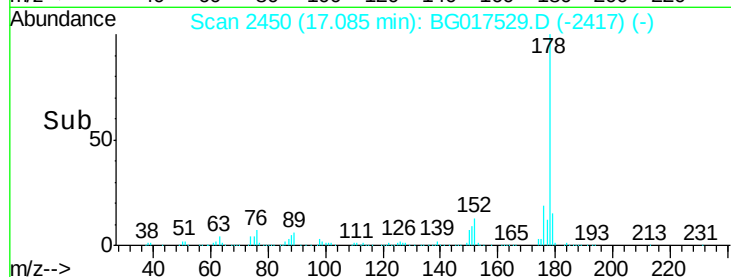
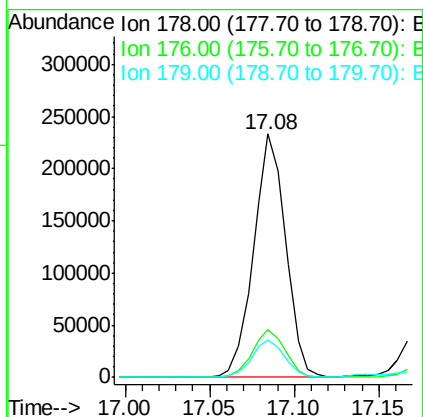
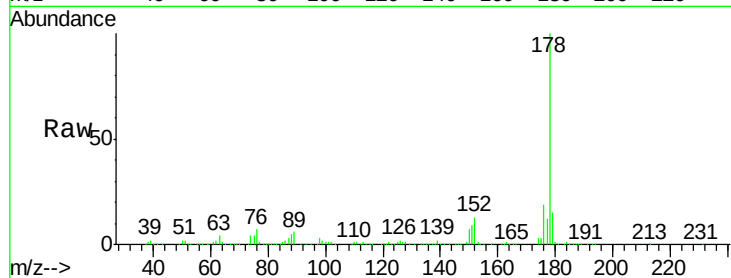
#70
Phenanthrene
Concen: 49.33 ng
RT: 17.08 min Scan# 2450
Delta R.T. -0.00 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Instrument :
BNA_G
ClientSampleId :
SP-6

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.6	23.4
179	15.4	12.2	18.2

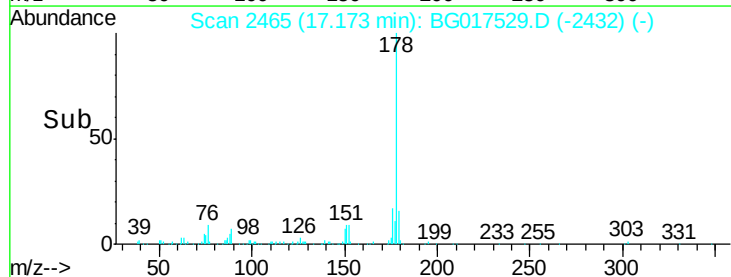
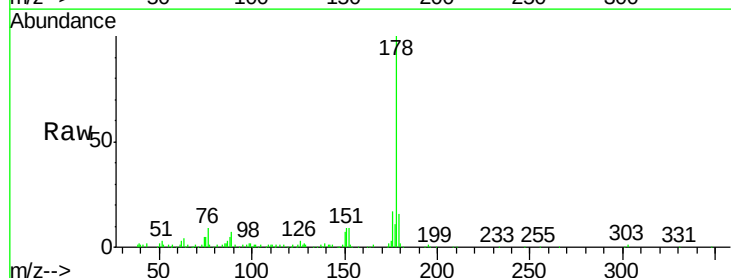
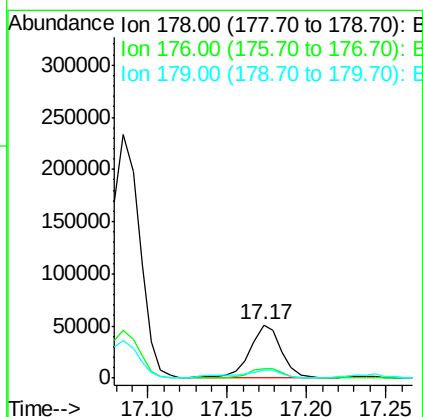
Manual Integrations
APPROVED

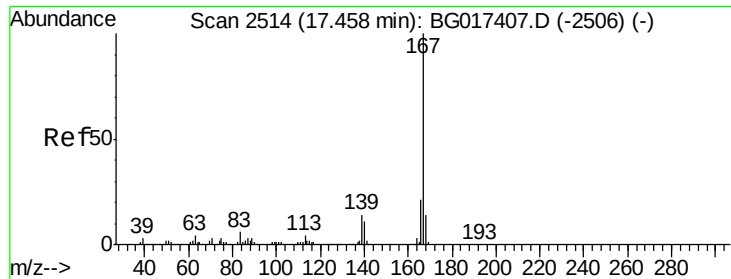
apatel
6/8/2015 6:00:55 PM



#71
Anthracene
Concen: 10.95 ng
RT: 17.17 min Scan# 2465
Delta R.T. -0.00 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.4	14.2	21.2
179	16.3	12.2	18.4





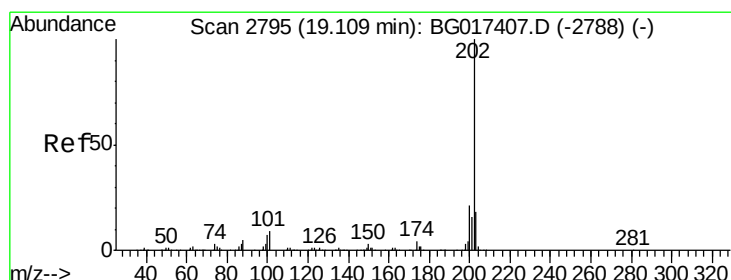
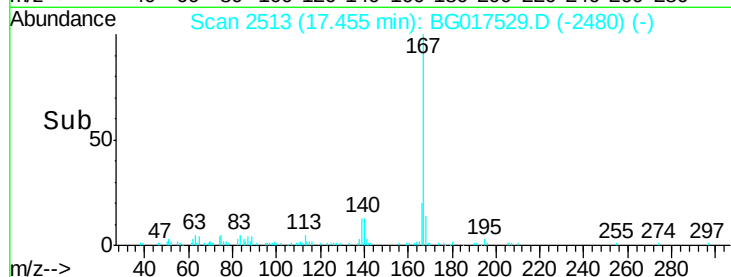
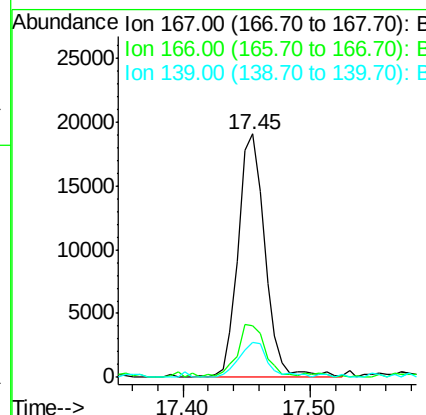
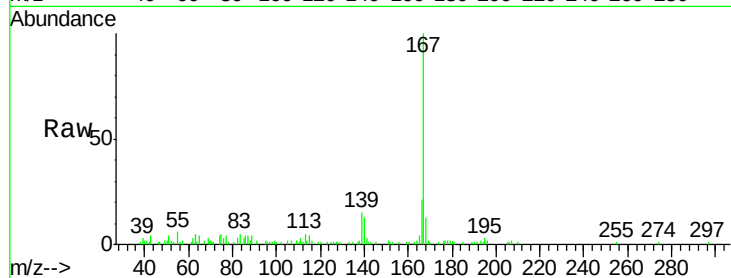
#72
 Carbazole
 Concen: 4.54 ng
 RT: 17.45 min Scan# 2513
 Delta R.T. -0.00 min
 Lab File: BG017529.D
 Acq: 7 Jun 2015 11:40

Instrument :
 BNA_G
 ClientSampled :
 SP-6

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.4
139	14.5	11.3	16.9

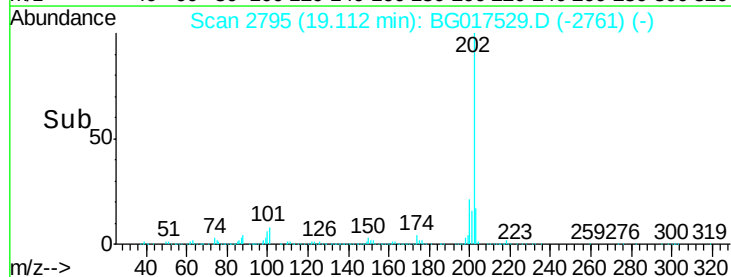
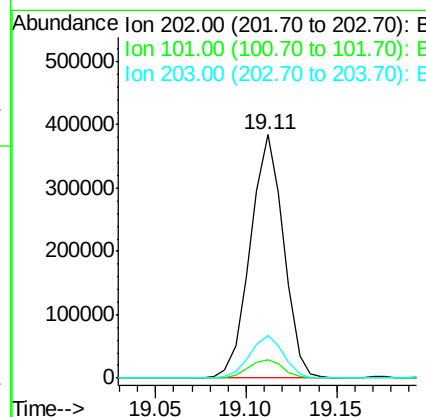
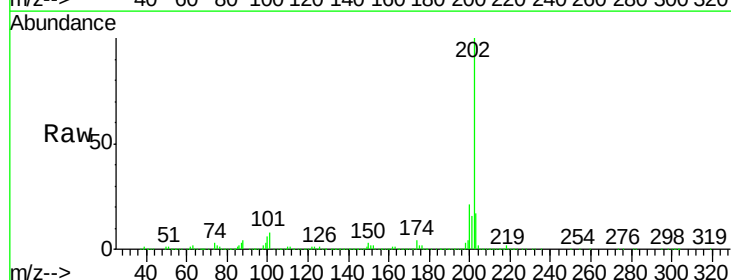
Manual Integrations
 APPROVED

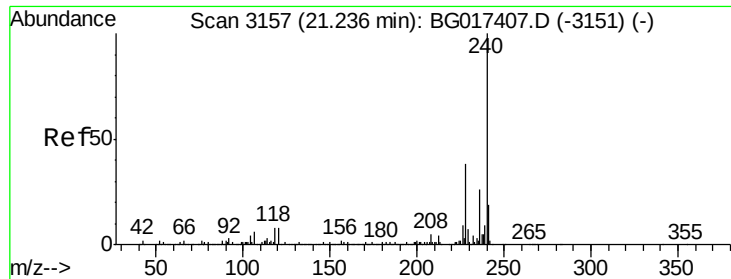
apatel
 6/8/2015 6:00:55 PM



#74
 Fluoranthene
 Concen: 60.07 ng
 RT: 19.11 min Scan# 2795
 Delta R.T. 0.00 min
 Lab File: BG017529.D
 Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.8	0.0	28.8
203	17.4	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.24 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Instrument :

BNA_G

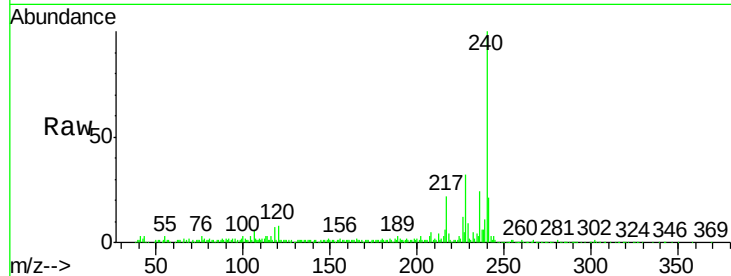
ClientSampleId :

SP-6

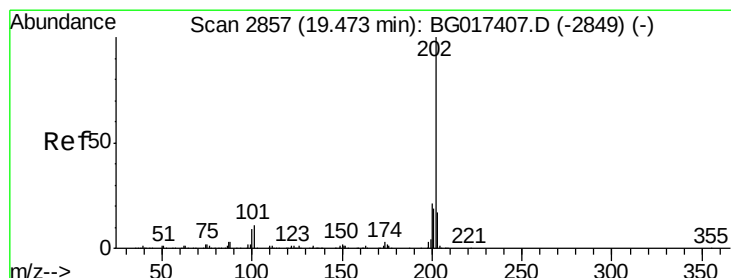
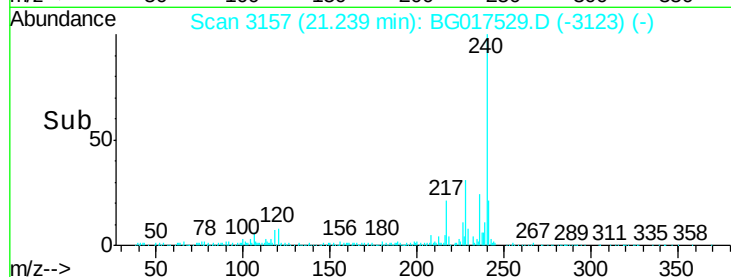
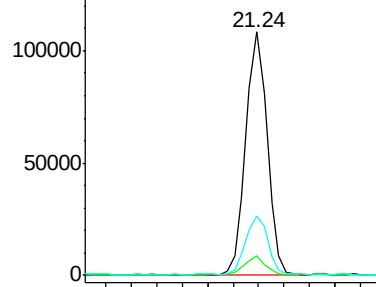
Tgt	Ion:240	Resp:	128640
Ion	Ratio	Lower	Upper
240	100		
120	8.0	6.5	9.7
236	24.4	20.8	31.2

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 55.35 ng

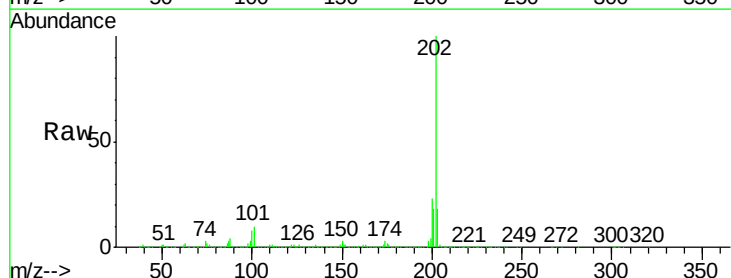
RT: 19.48 min Scan# 2857

Delta R.T. 0.00 min

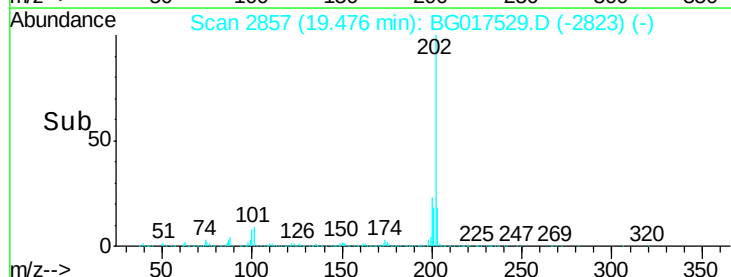
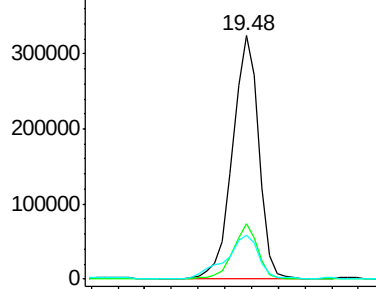
Lab File: BG017529.D

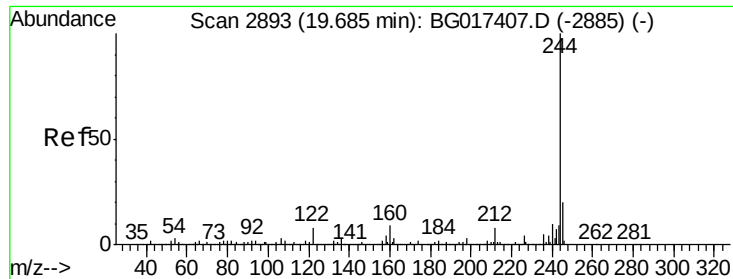
Acq: 7 Jun 2015 11:40

Tgt	Ion:202	Resp:	438631
Ion	Ratio	Lower	Upper
202	100		
200	23.0	17.0	25.4
203	18.1	13.9	20.9



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





#78

Terphenyl-d14

Concen: 59.86 ng

RT: 19.68 min Scan# 2892

Delta R.T. -0.00 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Instrument :

BNA_G

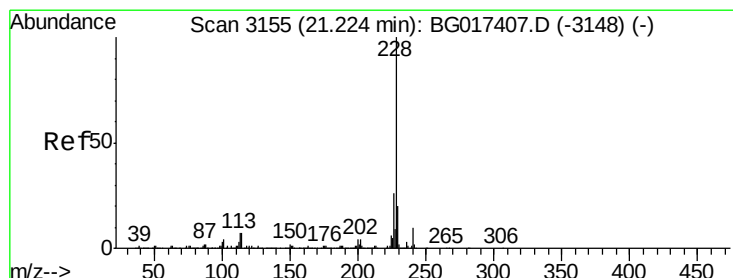
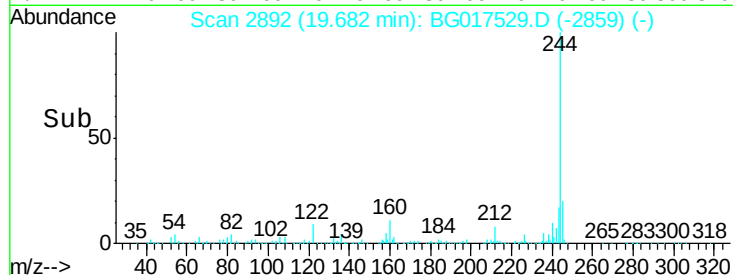
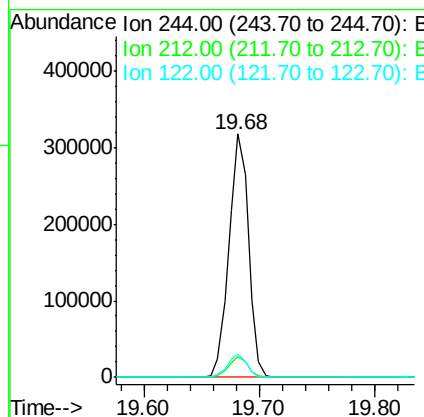
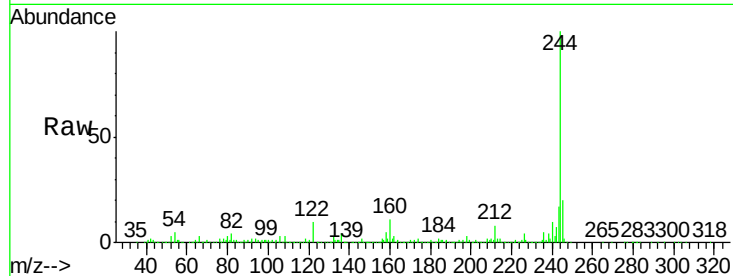
ClientSampleId :

SP-6

Tgt Ion:	244	Resp:	372564
Ion Ratio		Lower	Upper
244	100		
212	8.5	6.4	9.6
122	9.6	6.6	10.0

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM



#80

Benzo(a)anthracene

Concen: 29.69 ng

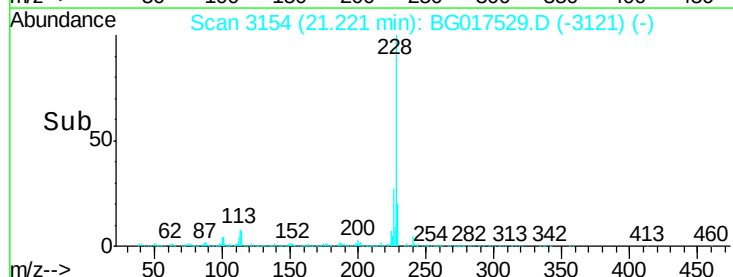
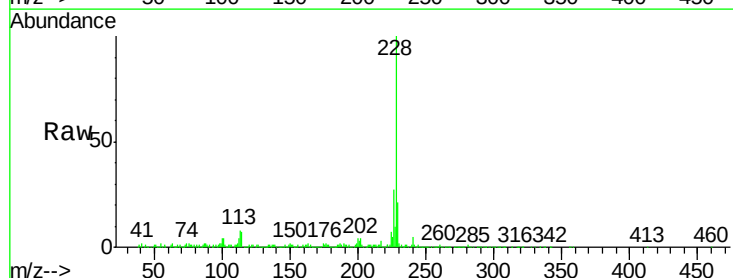
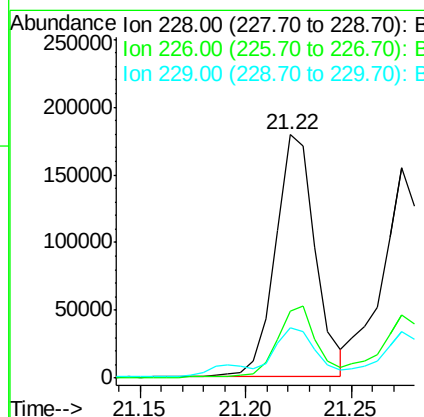
RT: 21.22 min Scan# 3154

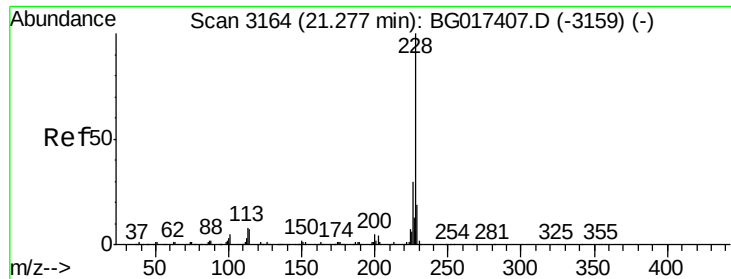
Delta R.T. -0.00 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Tgt Ion:	228	Resp:	234887
Ion Ratio		Lower	Upper
228	100		
226	27.5	21.0	31.6
229	20.8	15.7	23.5





#82

Chrysene

Concen: 28.96 ng

RT: 21.27 min Scan# 3163

Delta R.T. -0.00 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Instrument :

BNA_G

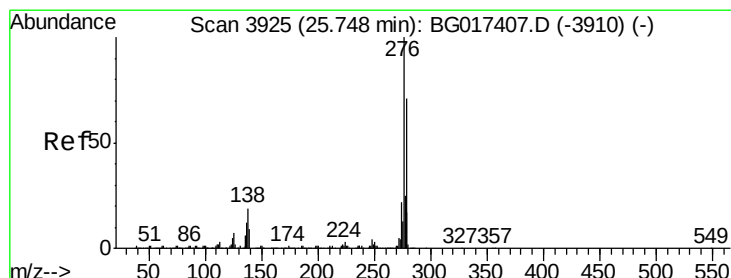
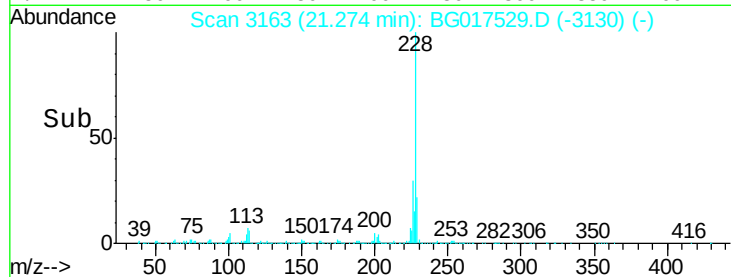
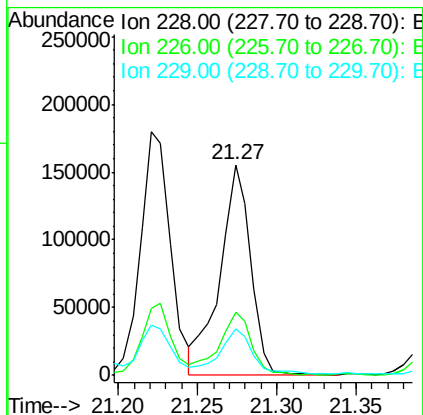
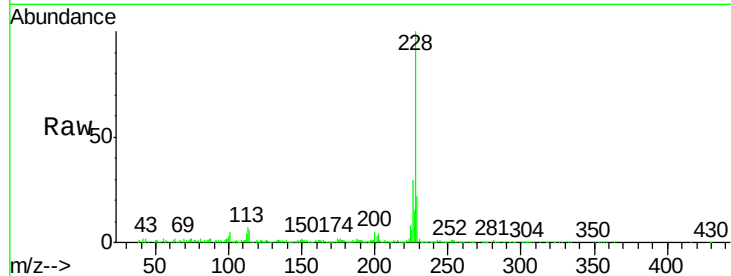
ClientSampleId :

SP-6

Tgt Ion:	228	Resp:	207460
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.7	35.5
229	22.4	15.2	22.8

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 13.95 ng

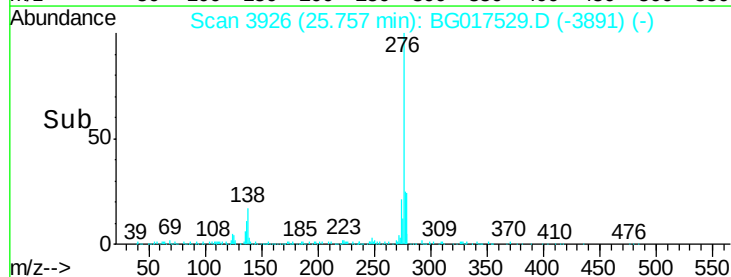
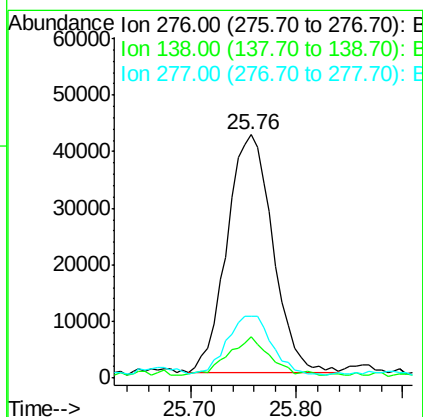
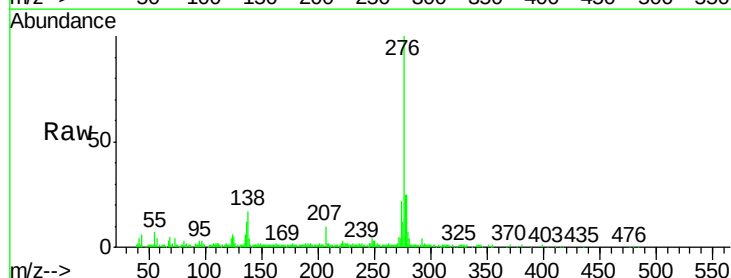
RT: 25.76 min Scan# 3926

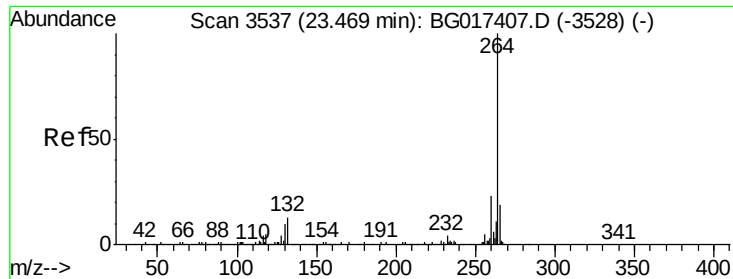
Delta R.T. 0.01 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Tgt Ion:	276	Resp:	125516
Ion Ratio	Lower	Upper	
276	100		
138	14.8	15.4	23.0#
277	24.6	20.5	30.7





#86

Perylene-d12

Concen: 20.00 ng

RT: 23.48 min Scan# 3538

Delta R.T. 0.01 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Instrument :

BNA_G

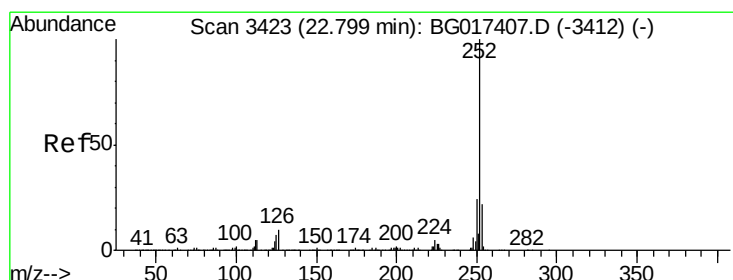
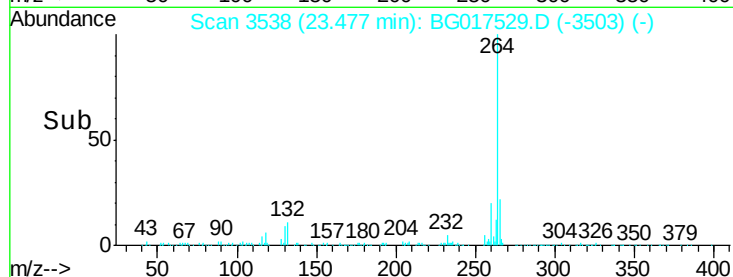
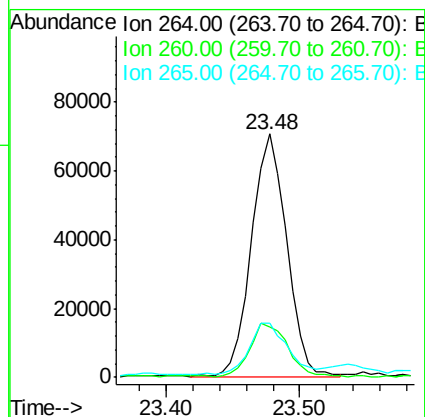
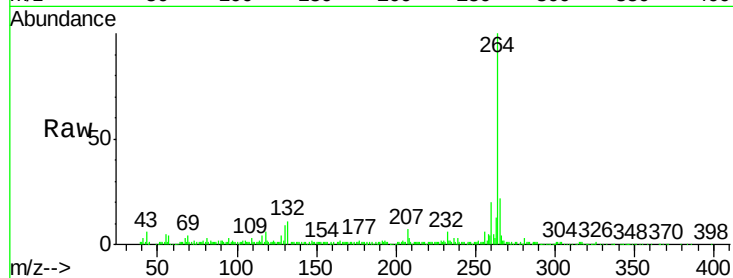
ClientSampleId :

SP-6

Tgt Ion:	264	Resp:	127983
Ion Ratio		Lower	Upper
264	100		
260	20.5	18.2	27.4
265	22.5	15.8	23.6

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM



#87

Benzo(b)fluoranthene

Concen: 33.20 ng m

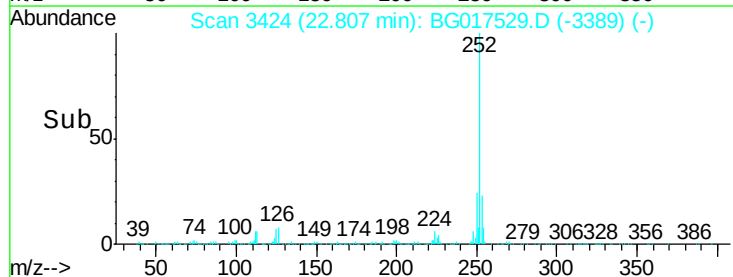
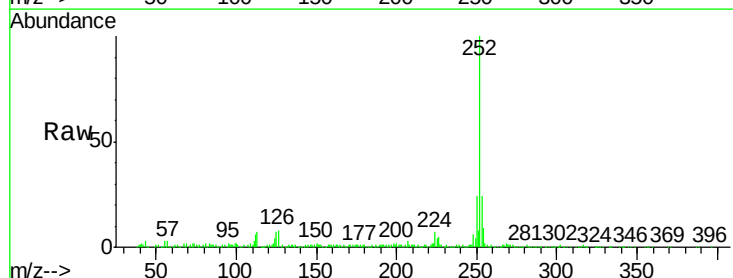
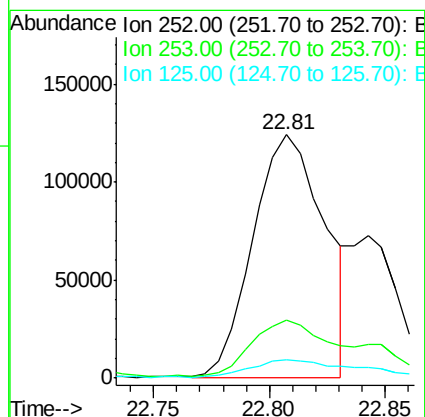
RT: 22.81 min Scan# 3424

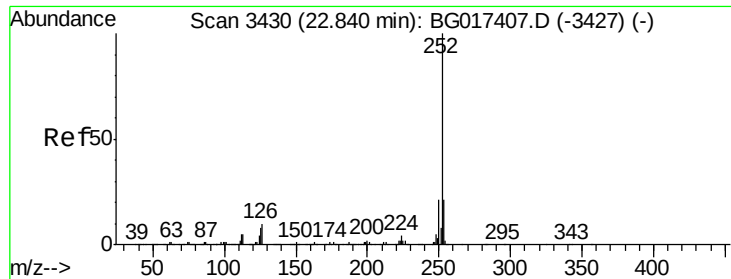
Delta R.T. 0.01 min

Lab File: BG017529.D

Acq: 7 Jun 2015 11:40

Tgt Ion:	252	Resp:	269225
Ion Ratio		Lower	Upper
252	100		
253	23.8	17.4	26.2
125	7.3	5.8	8.8





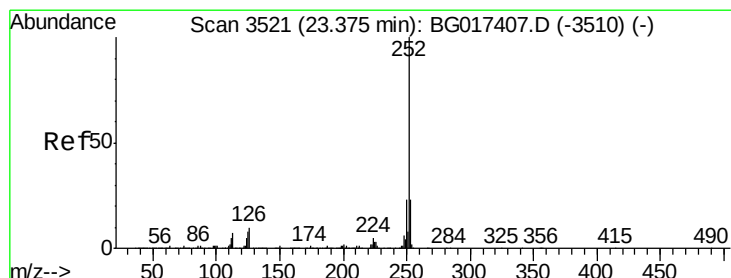
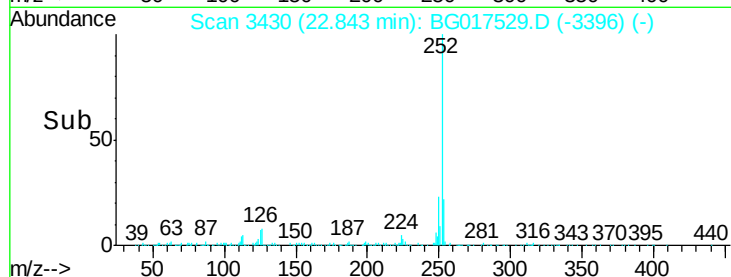
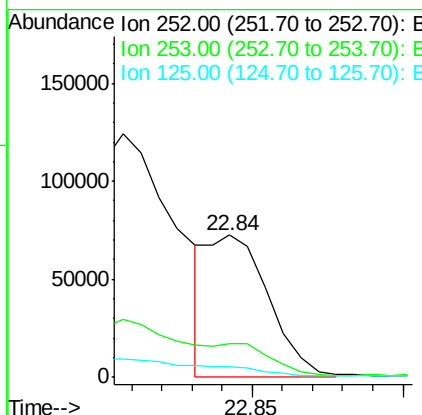
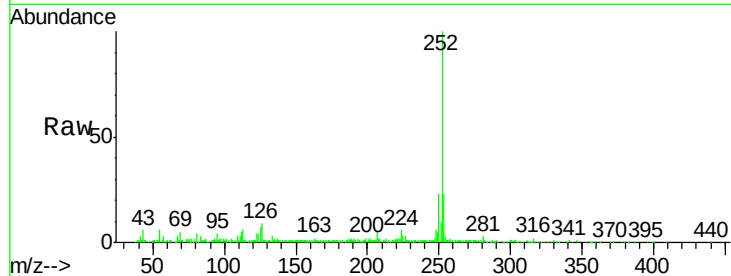
#88
Benzo(k)fluoranthene
Concen: 13.14 ng m
RT: 22.84 min Scan# 3430
Delta R.T. 0.00 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Instrument :
BNA_G
ClientSampled :
SP-6

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.7	26.5
125	7.5	6.5	9.7

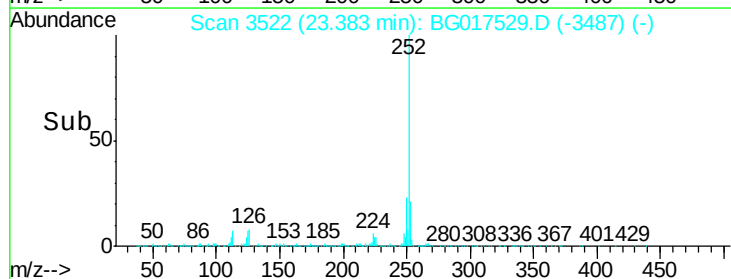
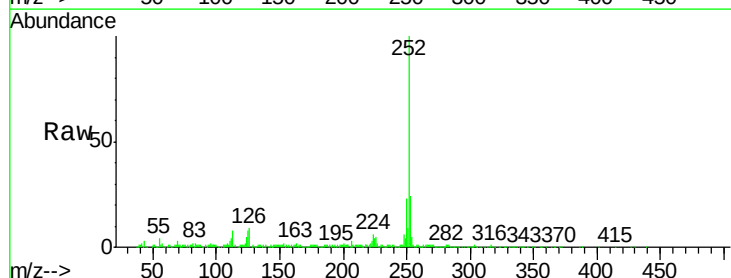
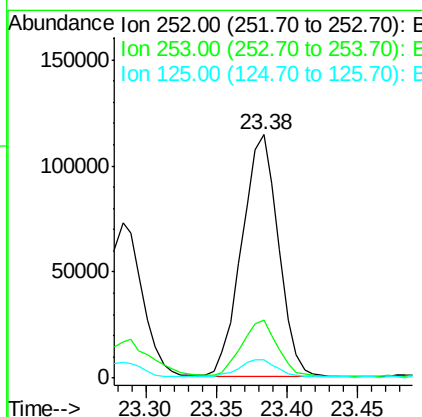
Manual Integrations
APPROVED

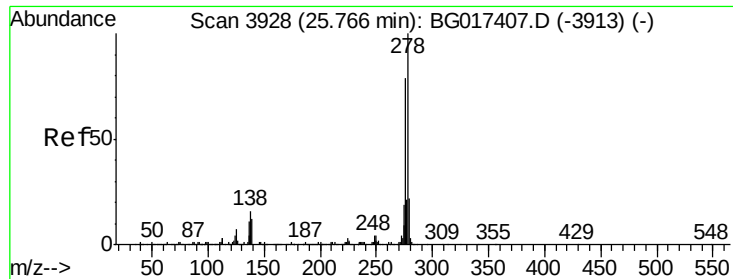
apatel
6/8/2015 6:00:55 PM



#89
Benzo(a)pyrene
Concen: 28.03 ng
RT: 23.38 min Scan# 3522
Delta R.T. 0.01 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	7.6	6.5	9.7





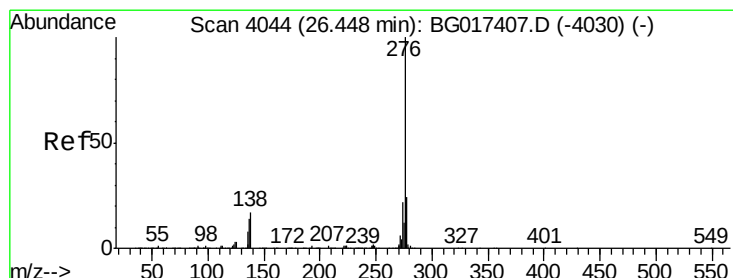
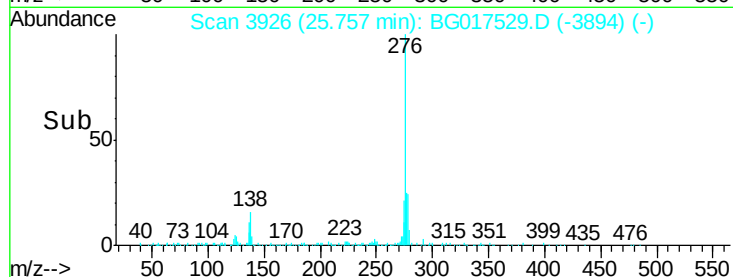
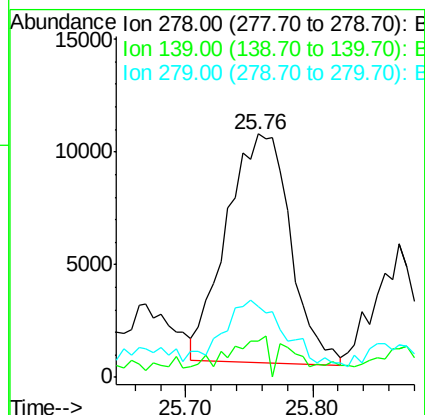
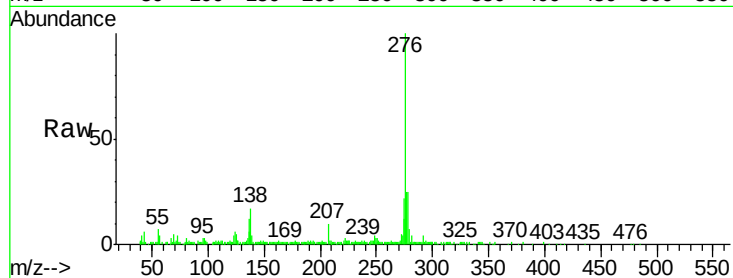
#90
Dibenzo(a,h)anthracene
Concen: 4.59 ng
RT: 25.76 min Scan# 3926
Delta R.T. -0.01 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Instrument :
BNA_G
ClientSampled :
SP-6

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.7	9.4	14.0#
279	29.3	17.8	26.8#

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:55 PM



#91
Benzo(g,h,i)perylene
Concen: 15.94 ng
RT: 26.46 min Scan# 4045
Delta R.T. 0.01 min
Lab File: BG017529.D
Acq: 7 Jun 2015 11:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.2	28.8
138	16.4	13.5	20.3

