

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040216\
 Data File : BF086010.D
 Acq On : 2 Apr 2016 14:31
 Operator : UM/SJ
 Sample : H2055-12
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BH-12(5-9)

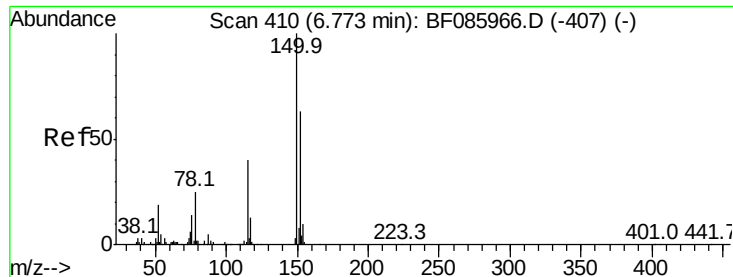
Manual Integrations
 APPROVED

Sohil
 4/4/2016 7:41:40 PM

Quant Time: Apr 04 16:07:30 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	111507	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	428821	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	185745	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	318453	20.00	ng	-0.01
75) Chrysene-d12	13.93	240	211924	20.00	ng	0.00
86) Perylene-d12	15.33	264	221379	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	597205	91.55	ng	0.00
7) Phenol-d6	6.42	99	920842	111.13	ng	0.00
23) Nitrobenzene-d5	7.34	82	595237	81.86	ng	0.00
41) 2,4,6-Tribromophenol	10.60	330	118051	67.71	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	818666	73.28	ng	0.00
78) Terphenyl-d14	12.88	244	537234	59.59	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.53	163	111460	8.10	ng	99
51) Acenaphthene	9.84	154	29293	2.65	ng	98
57) Fluorene	10.36	166	25468	2.04	ng	98
70) Phenanthrene	11.31	178	357680	20.59	ng	99
71) Anthracene	11.37	178	93208	5.12	ng	98
72) Carbazole	11.53	167	39371	2.52	ng	100
74) Fluoranthene	12.50	202	373462	20.67	ng	96
77) Pyrene	12.73	202	333497	22.33	ng	99
80) Benzo(a)anthracene	13.92	228	173354	13.88	ng	99
82) Chrysene	13.95	228	117646	9.78	ng	98
83) Bis(2-ethylhexyl)phthalate	13.91	149	27119	3.04	ng	96
85) Indeno(1,2,3-cd)pyrene	16.69	276	85477	8.76	ng	94
87) Benzo(b)fluoranthene	14.93	252	202403m	14.53	ng	
88) Benzo(k)fluoranthene	14.96	252	46756m	3.79	ng	
89) Benzo(a)pyrene	15.28	252	129024	10.46	ng	98
90) Dibenzo(a,h)anthracene	16.69	278	22440	2.26	ng	# 79
91) Benzo(a,h,i)perylene	17.11	276	82145	8.55	ng	96

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



#1

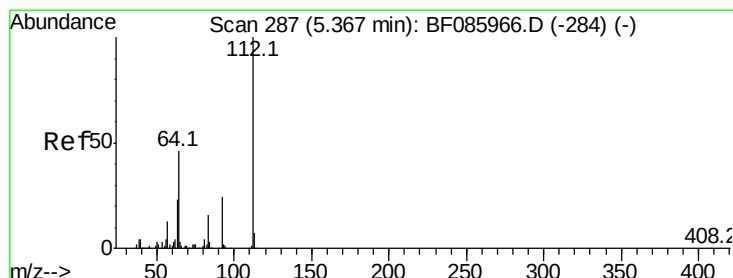
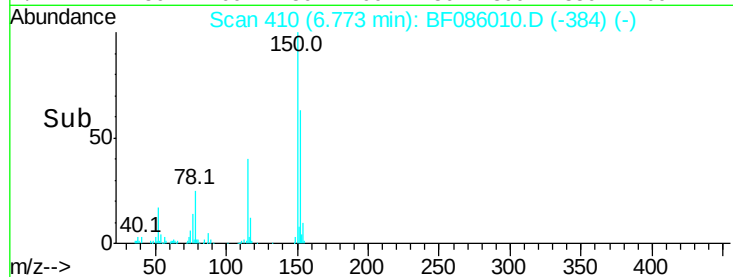
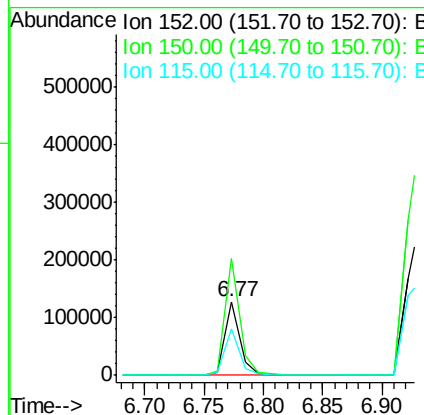
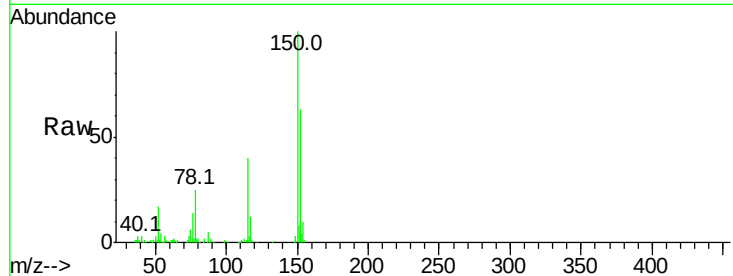
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 410
Delta R.T. 0.00 min
Lab File: BF086010.D
Acq: 2 Apr 2016 14:31

Instrument :
BNA_F
ClientSampleId :
BH-12(5-9)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.2	186.2
115	63.3	47.0	70.6

Manual Integrations
APPROVED

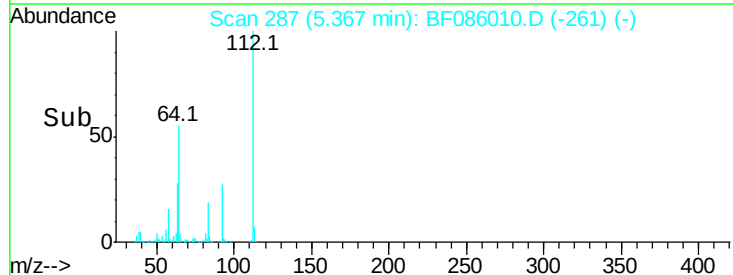
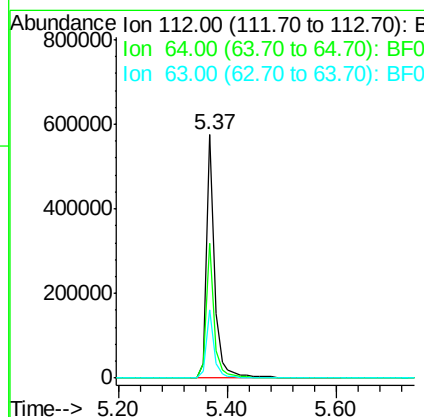
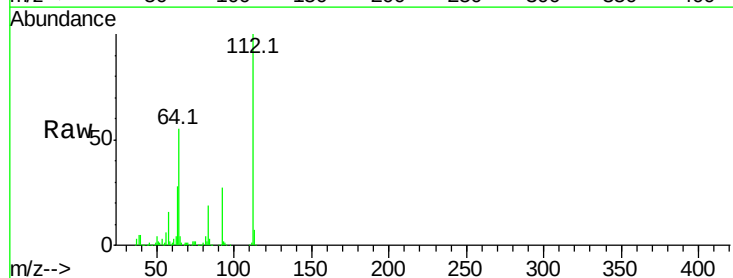
Sohil
4/4/2016 7:41:40 PM

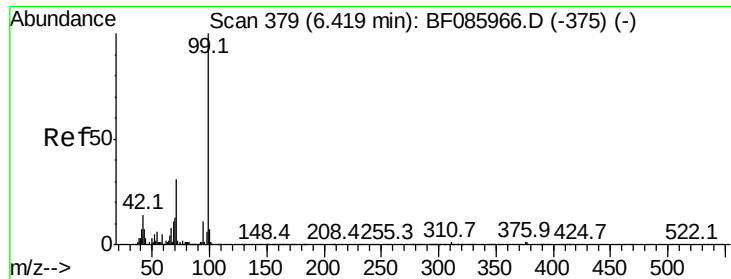


#5

2-Fluorophenol
Concen: 91.55 ng
RT: 5.37 min Scan# 287
Delta R.T. 0.00 min
Lab File: BF086010.D
Acq: 2 Apr 2016 14:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.2	39.9	59.9
63	27.8	20.2	30.2





#7

Phenol-d6

Concen: 111.13 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Instrument :

BNA_F

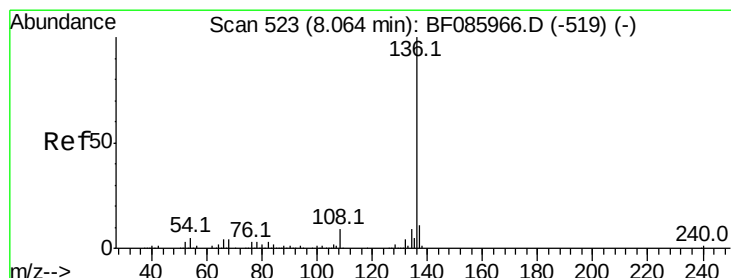
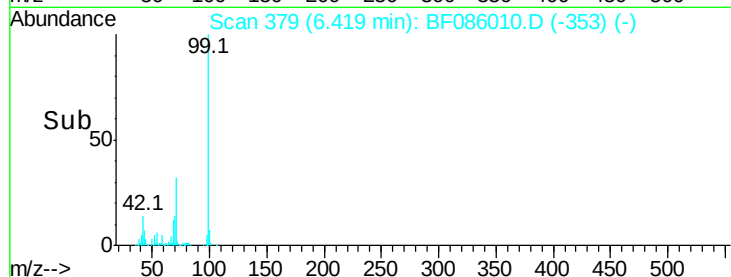
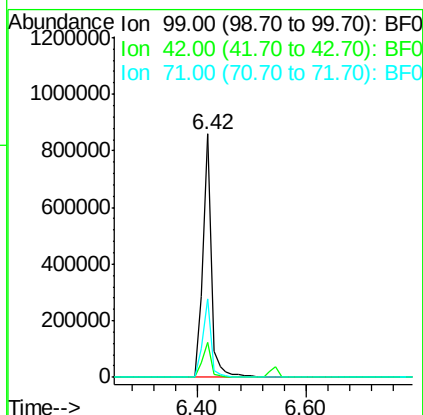
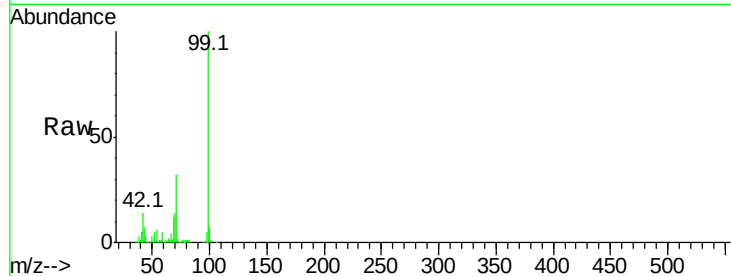
ClientSampleId :

BH-12(5-9)

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM

Tot Ion:	99	Resp:	920842
Ion Ratio	Lower	Upper	
99	100		
42	14.5	11.1	16.7
71	32.4	24.9	37.3



#21

Naphthalene-d8

Concen: 20.00 ng

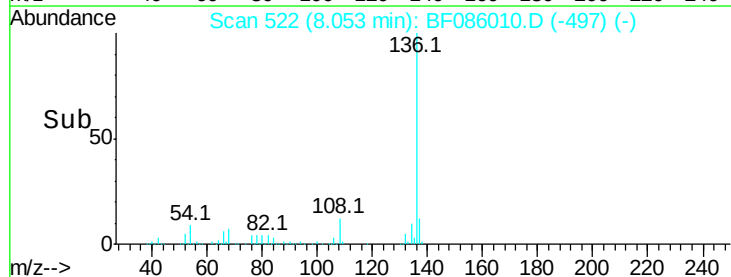
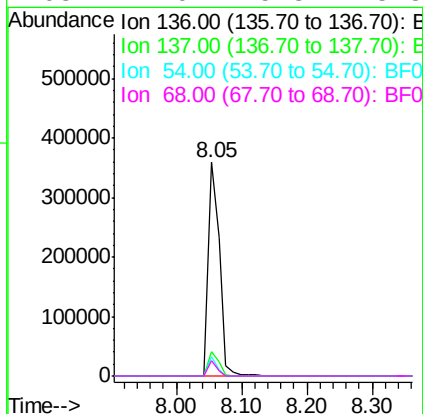
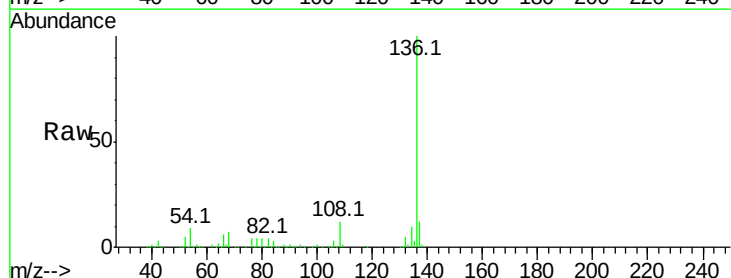
RT: 8.05 min Scan# 522

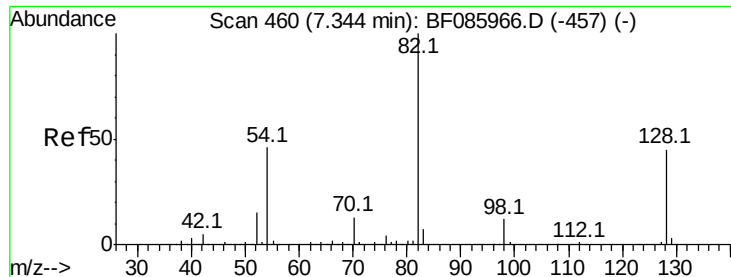
Delta R.T. -0.01 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion:	136	Resp:	428821
Ion Ratio	Lower	Upper	
136	100		
137	11.7	9.1	13.7
54	8.7	7.4	11.0
68	7.0	5.8	8.8





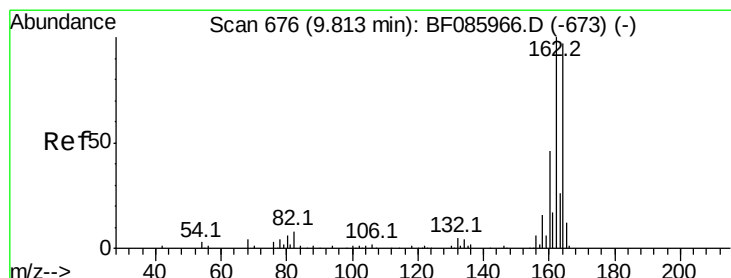
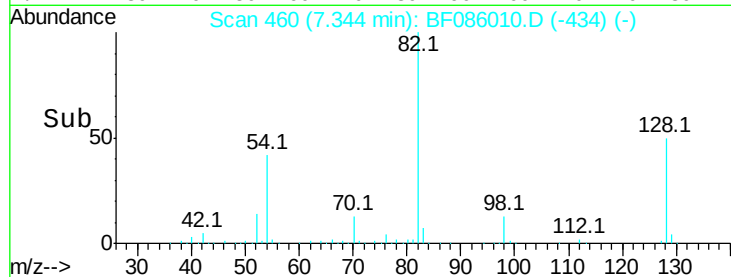
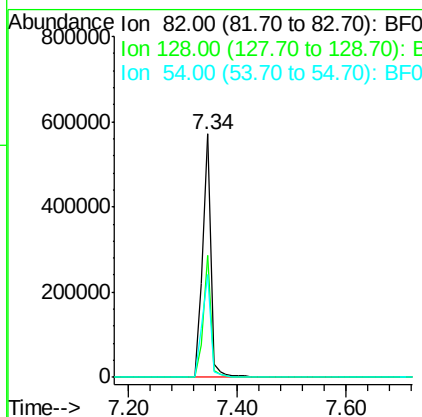
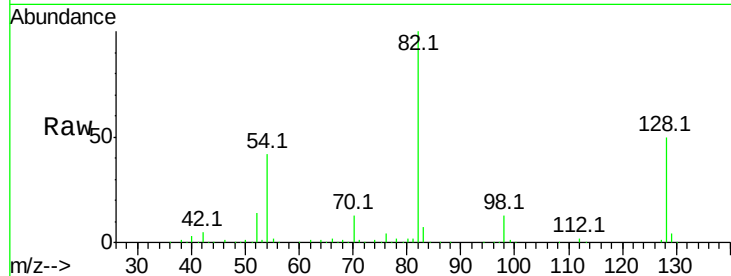
#23
 Nitrobenzene-d5
 Concen: 81.86 ng
 RT: 7.34 min Scan# 460
 Delta R.T. 0.00 min
 Lab File: BF086010.D
 Acq: 2 Apr 2016 14:31

Instrument :
 BNA_F
 ClientSampleId :
 BH-12(5-9)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	595237		
128	50.1	41.8	62.8	
54	42.0	33.4	50.0	

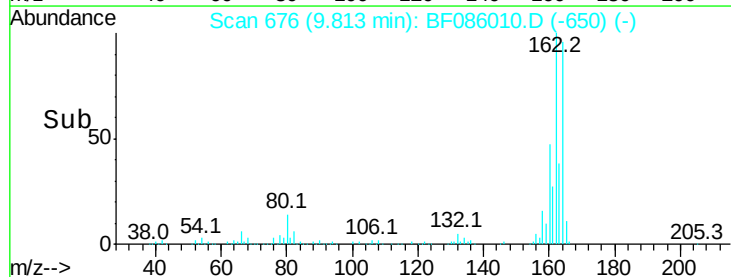
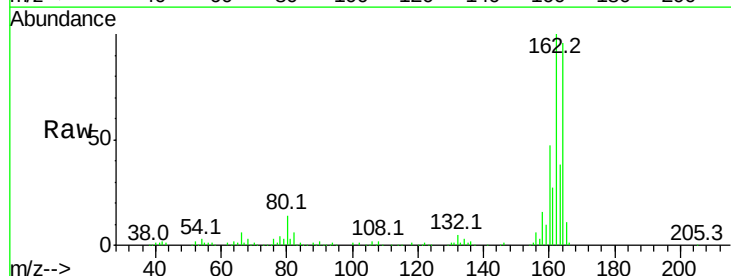
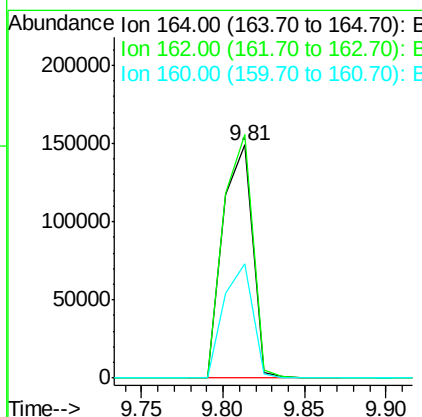
Manual Integrations
 APPROVED

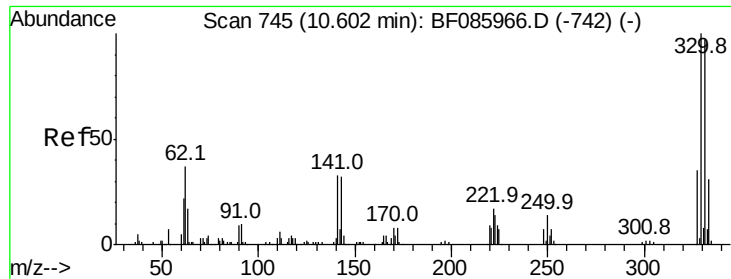
Sohil
 4/4/2016 7:41:40 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.81 min Scan# 676
 Delta R.T. 0.00 min
 Lab File: BF086010.D
 Acq: 2 Apr 2016 14:31

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	185745		
162	104.6	82.1	123.1	
160	48.9	37.4	56.2	





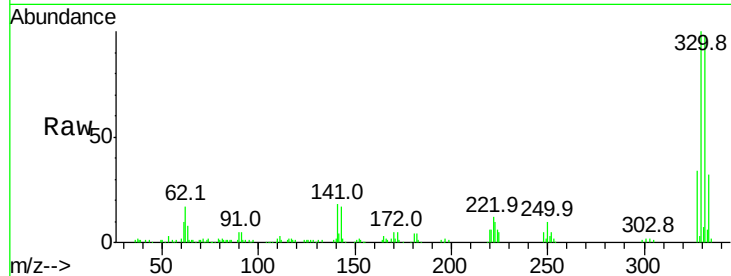
#41
 2,4,6-Tribromophenol
 Concen: 67.71 ng
 RT: 10.60 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: BF086010.D
 Acq: 2 Apr 2016 14:31

Instrument :
 BNA_F
 ClientSampleId :
 BH-12(5-9)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	118051		
332	97.3	78.2	117.2	
141	41.4	31.5	47.3	

Manual Integrations
 APPROVED

Sohil
 4/4/2016 7:41:40 PM

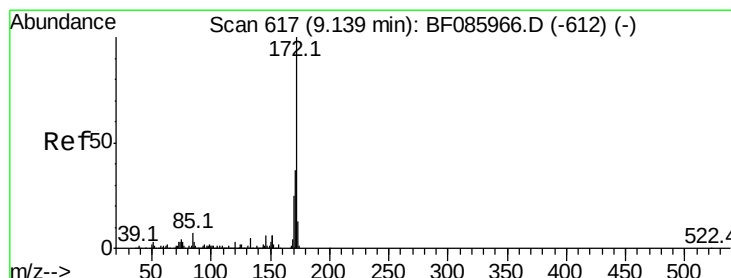
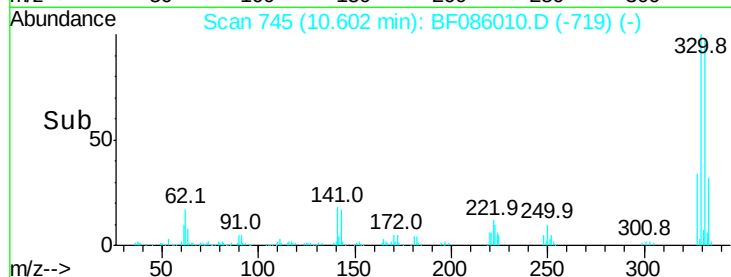
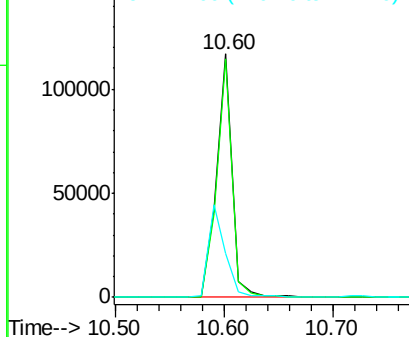


Abundance

Ion 329.80 (329.50 to 330.50): E

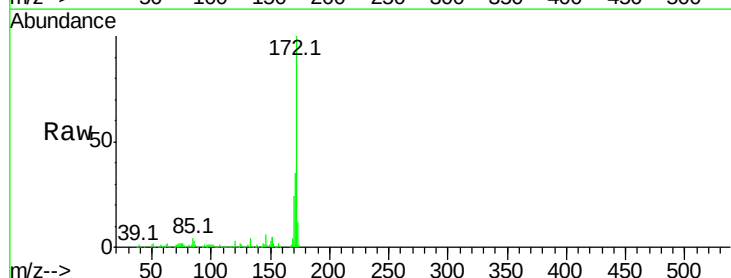
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 73.28 ng
 RT: 9.14 min Scan# 617
 Delta R.T. 0.00 min
 Lab File: BF086010.D
 Acq: 2 Apr 2016 14:31

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	818666		
171	35.2	29.4	44.2	
170	23.8	19.8	29.6	

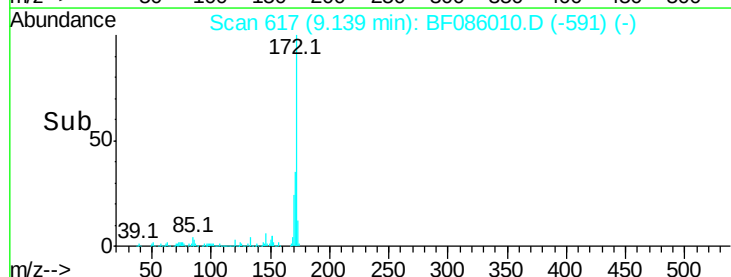
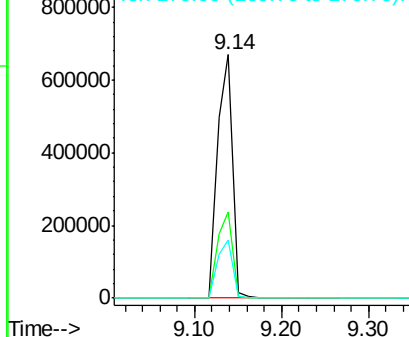


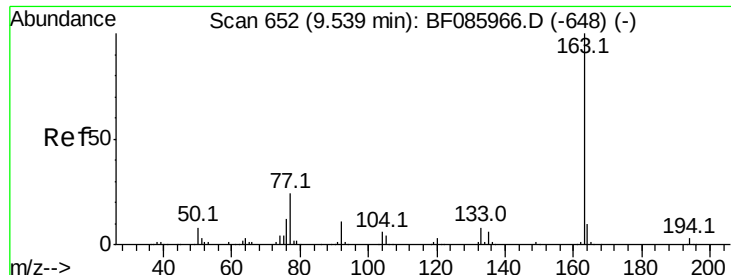
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





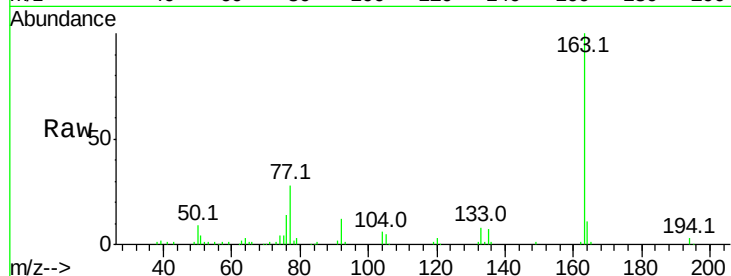
#49
Dimethylphthalate
Concen: 8.10 ng
RT: 9.53 min Scan# 651
Delta R.T. -0.01 min
Lab File: BF086010.D
Acq: 2 Apr 2016 14:31

Instrument :
BNA_F
ClientSampleId :
BH-12(5-9)

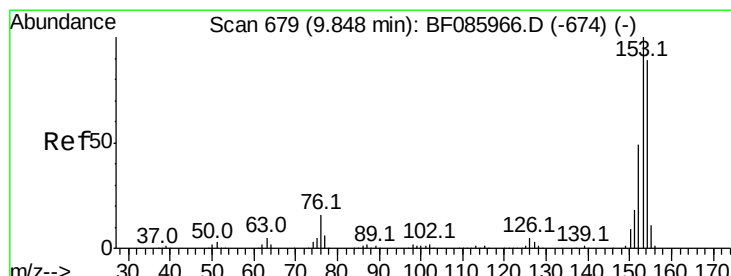
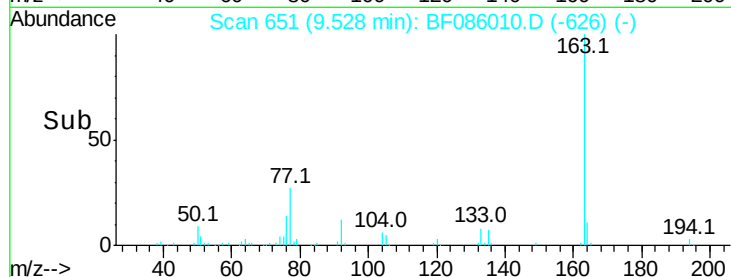
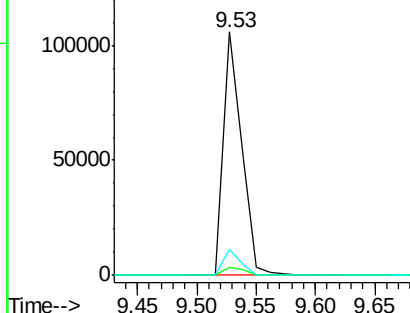
Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.2	2.9	4.3	
164	10.6	8.3	12.5	

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM

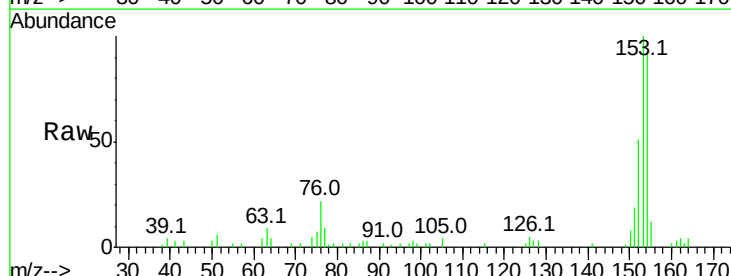


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

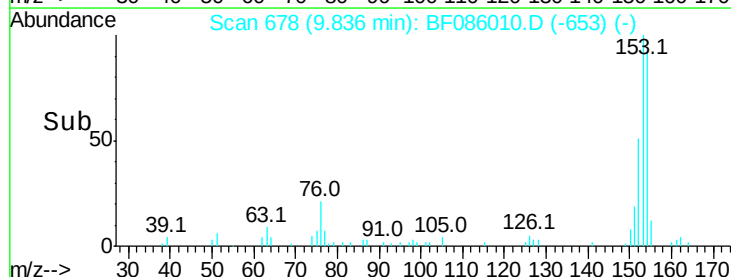
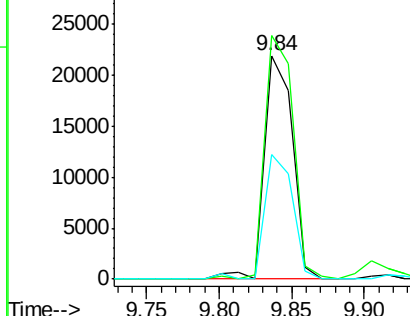


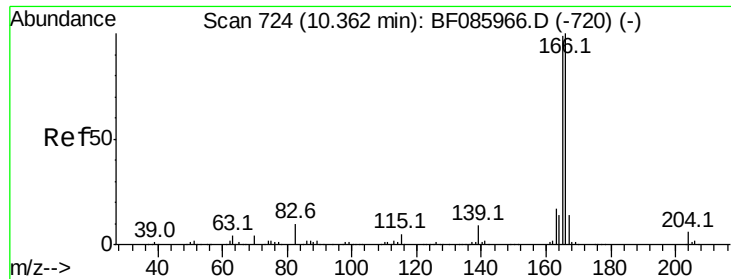
#51
Acenaphthene
Concen: 2.65 ng
RT: 9.84 min Scan# 678
Delta R.T. -0.01 min
Lab File: BF086010.D
Acq: 2 Apr 2016 14:31

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	108.9	90.1	135.1	
152	55.6	44.2	66.2	



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





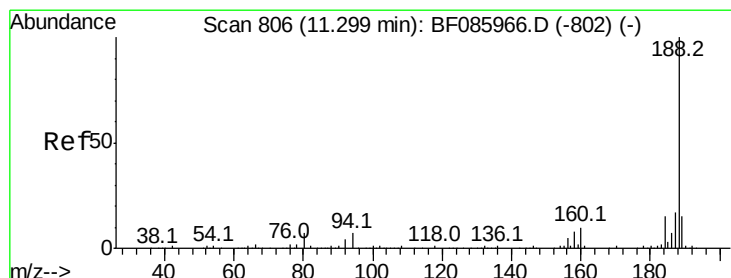
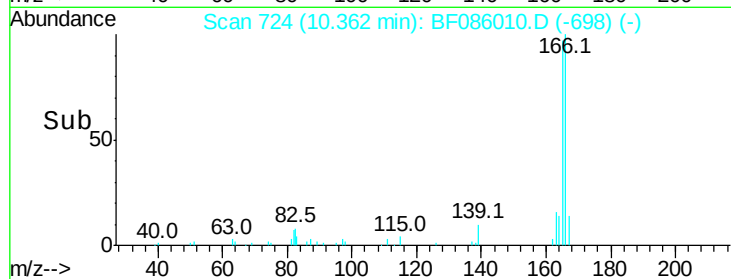
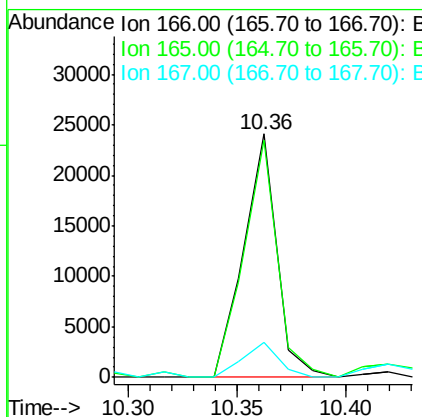
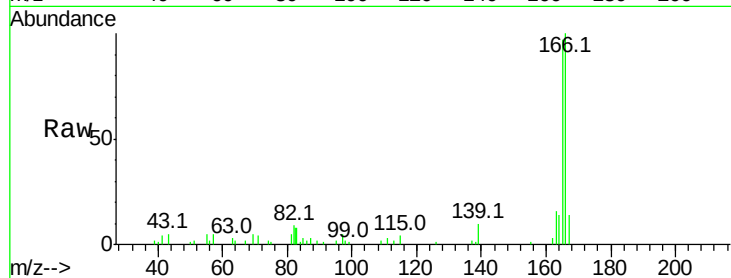
#57
 Fluorene
 Concen: 2.04 ng
 RT: 10.36 min Scan# 724
 Delta R.T. 0.00 min
 Lab File: BF086010.D
 Acq: 2 Apr 2016 14:31

Instrument :
 BNA_F
 ClientSampleId :
 BH-12(5-9)

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.4	119.0
167	14.4	11.0	16.4

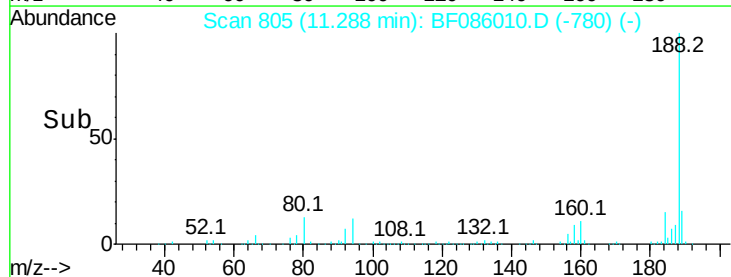
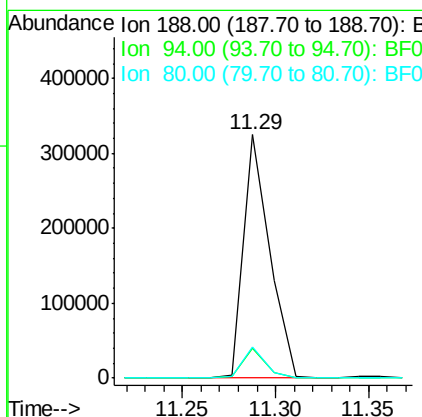
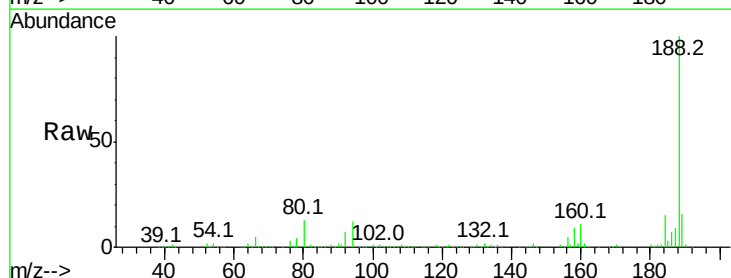
Manual Integrations
 APPROVED

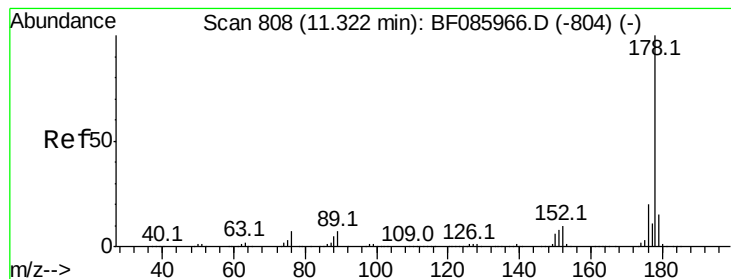
Sohil
 4/4/2016 7:41:40 PM



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.29 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: BF086010.D
 Acq: 2 Apr 2016 14:31

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.4	5.4	8.0#
80	13.0	5.5	8.3#





#70

Phenanthrene

Concen: 20.59 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Instrument :

BNA_F

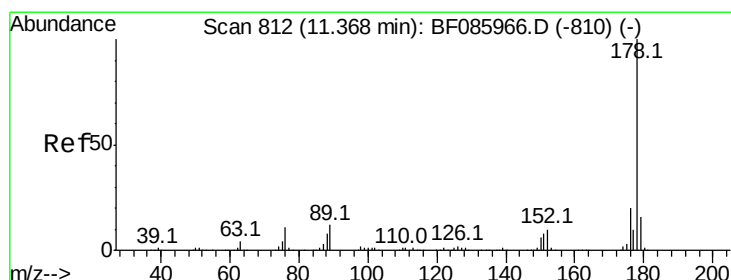
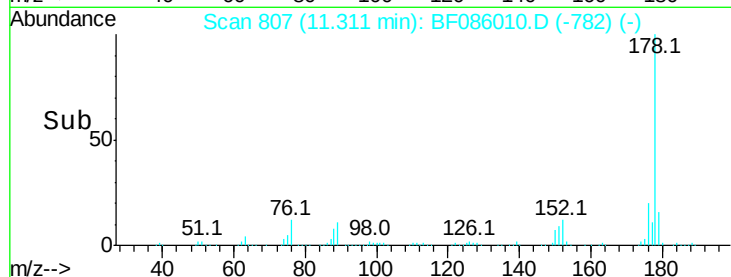
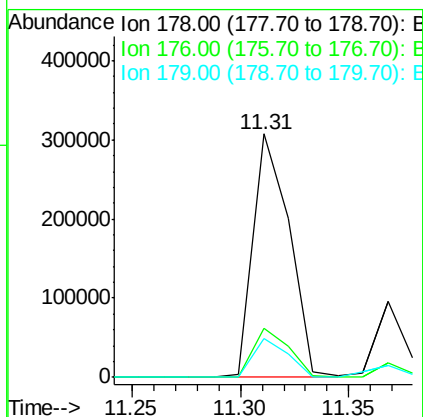
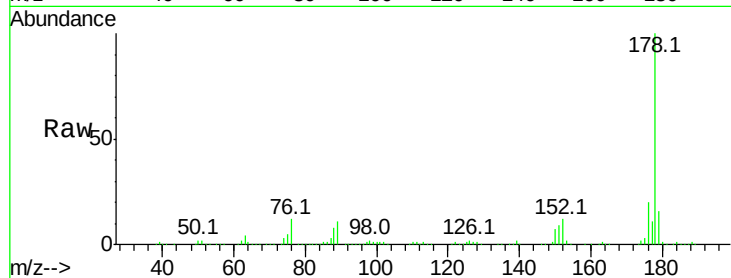
ClientSampleId :

BH-12(5-9)

Tot Ion:	178	Resp:	357680
Ion Ratio	Lower	Upper	
178	100		
176	20.0	16.3	24.5
179	15.9	12.6	18.8

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM



#71

Anthracene

Concen: 5.12 ng

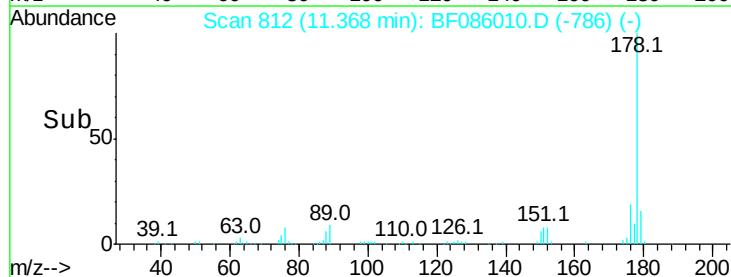
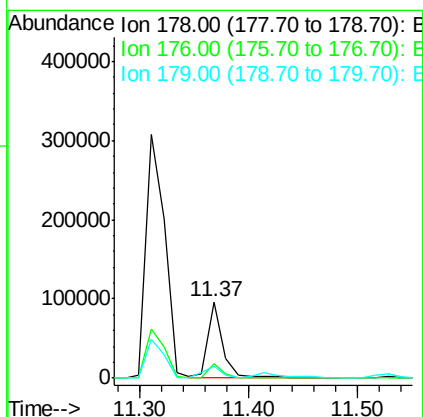
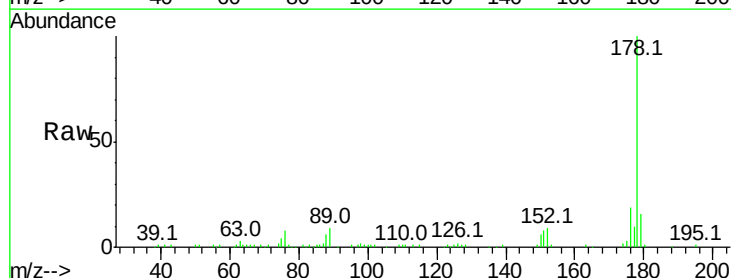
RT: 11.37 min Scan# 812

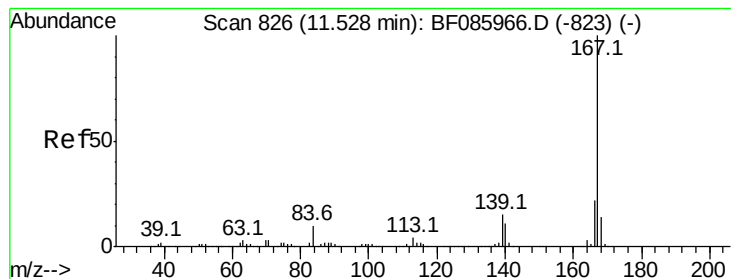
Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion:	178	Resp:	93208
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.9	23.9
179	15.8	13.0	19.4





#72

Carbazole

Concen: 2.52 ng

RT: 11.53 min Scan# 826

Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Instrument :

BNA_F

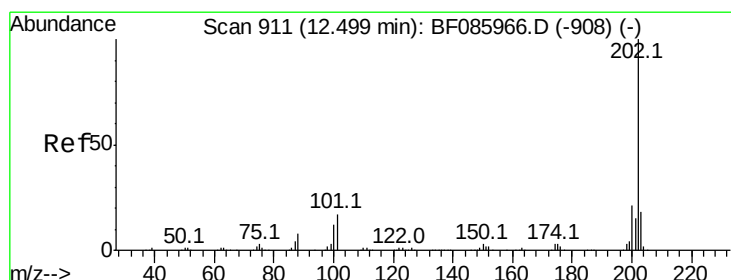
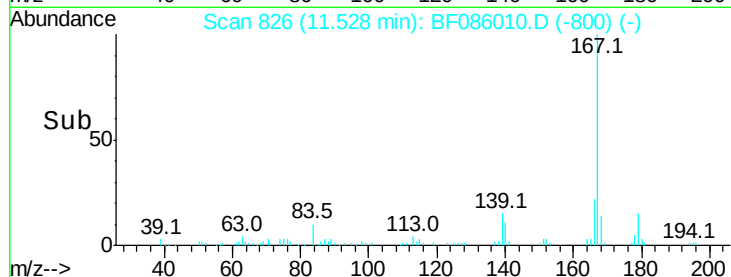
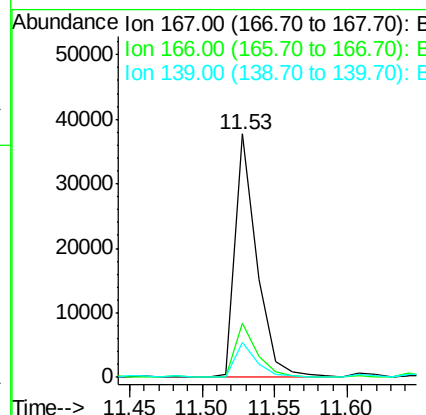
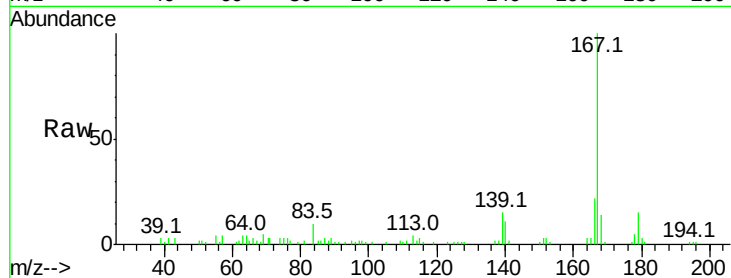
ClientSampleId :

BH-12(5-9)

Tot Ion:	167	Resp:	39371
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.8	26.8
139	14.5	11.6	17.4

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM



#74

Fluoranthene

Concen: 20.67 ng

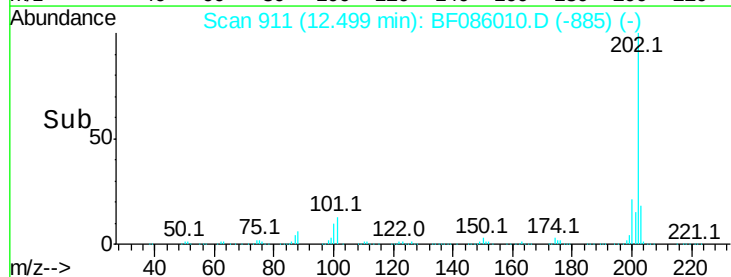
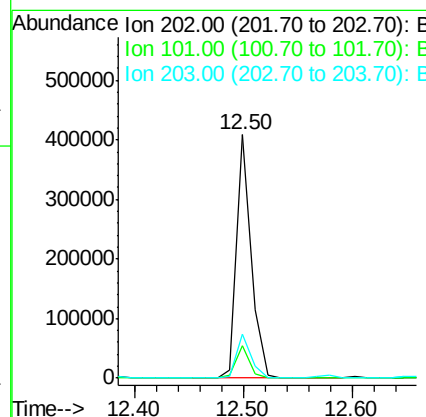
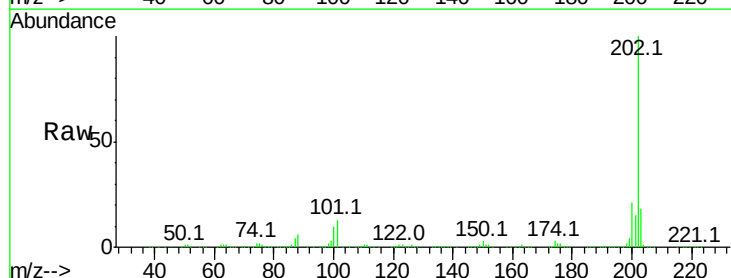
RT: 12.50 min Scan# 911

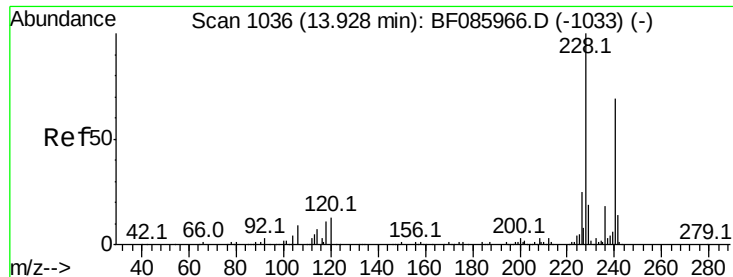
Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion:	202	Resp:	373462
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	36.6
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Instrument :

BNA_F

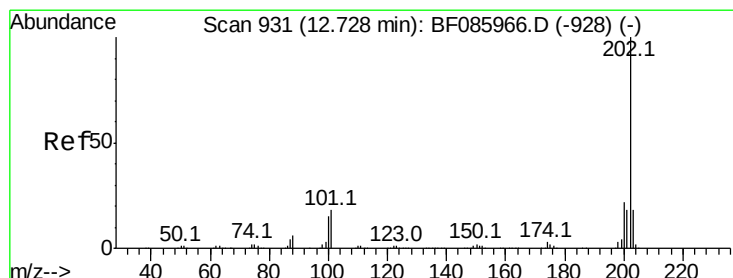
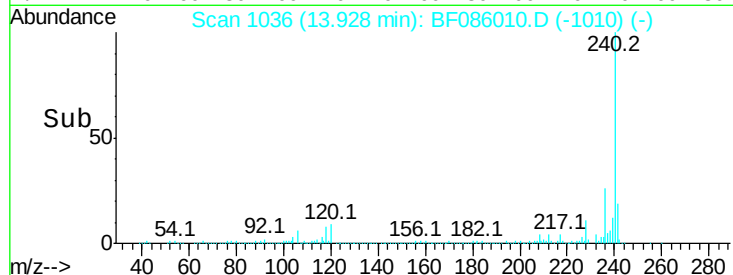
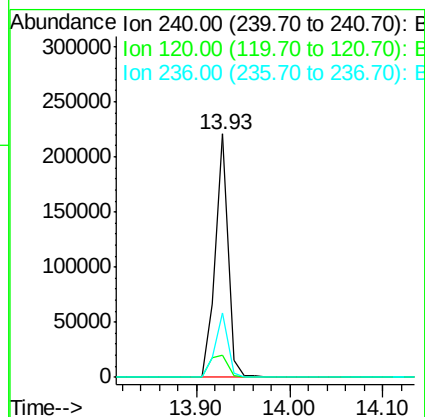
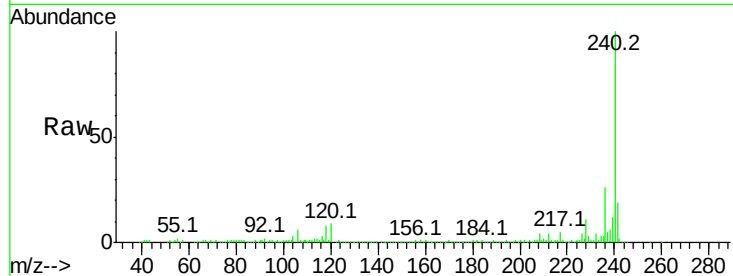
ClientSampleId :

BH-12(5-9)

Tot Ion:	240	Resp:	211924
Ion Ratio	Lower	Upper	
240	100		
120	9.2	13.8	20.8#
236	26.5	20.6	30.8

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM



#77

Pyrene

Concen: 22.33 ng

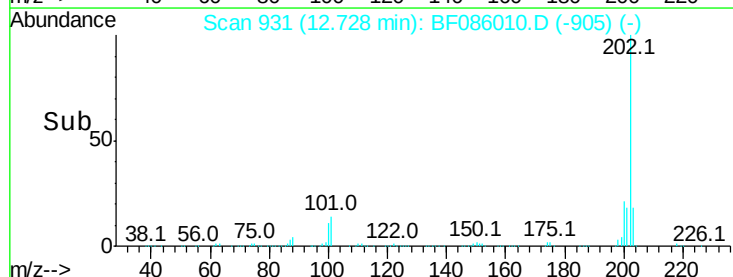
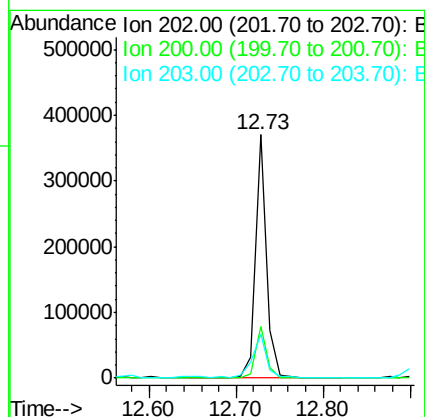
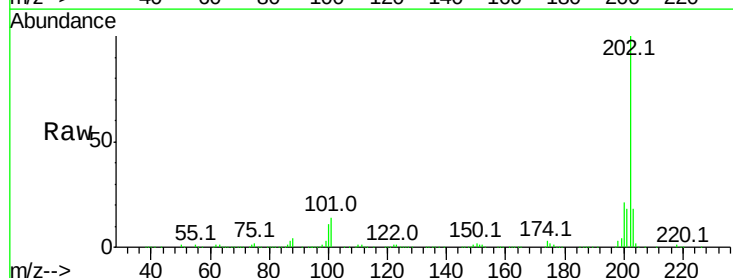
RT: 12.73 min Scan# 931

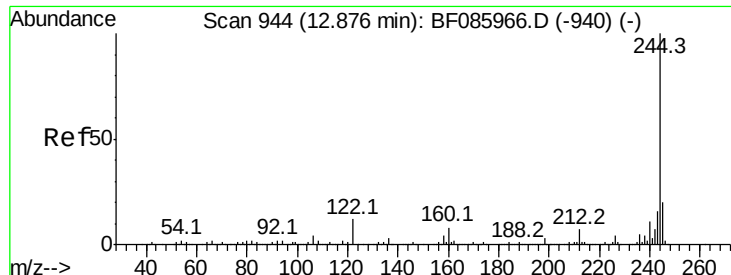
Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion:	202	Resp:	333497
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.6	26.4
203	18.2	14.0	21.0





#78

Terphenyl-d14

Concen: 59.59 ng

RT: 12.88 min Scan# 944

Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Instrument :

BNA_F

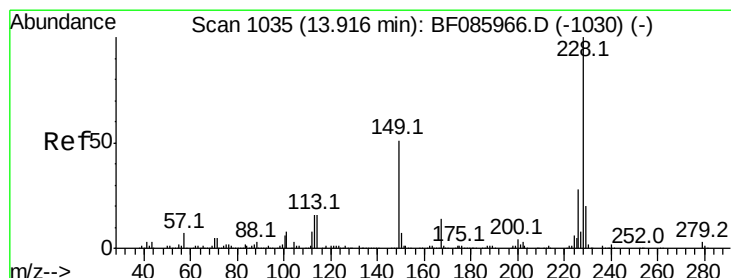
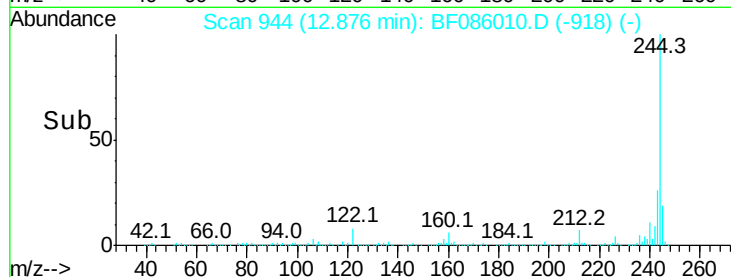
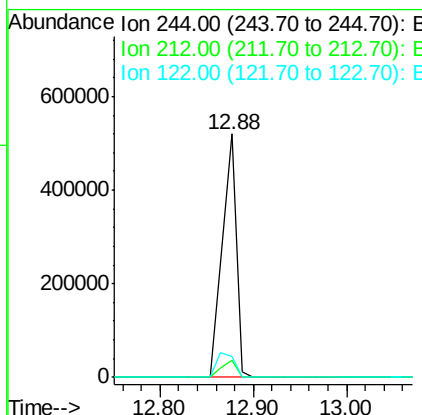
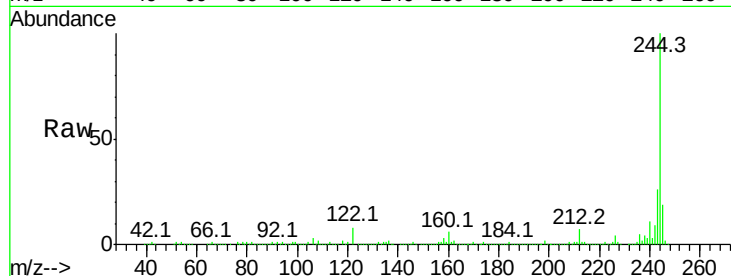
ClientSampleId :

BH-12(5-9)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.1	9.1
122	8.5	10.2	15.4

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM



#80

Benzo(a)anthracene

Concen: 13.88 ng

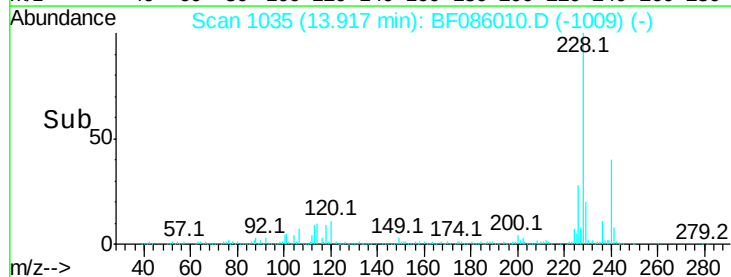
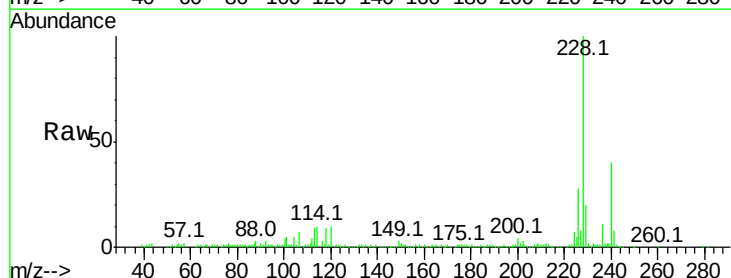
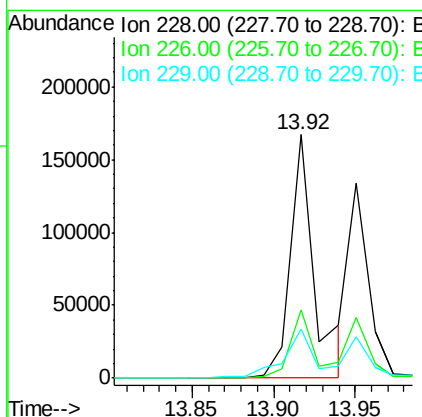
RT: 13.92 min Scan# 1035

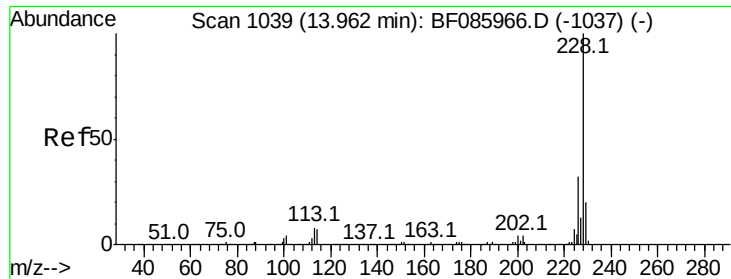
Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.1	33.1
229	20.1	16.2	24.4





#82

Chrysene

Concen: 9.78 ng

RT: 13.95 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Instrument :

BNA_F

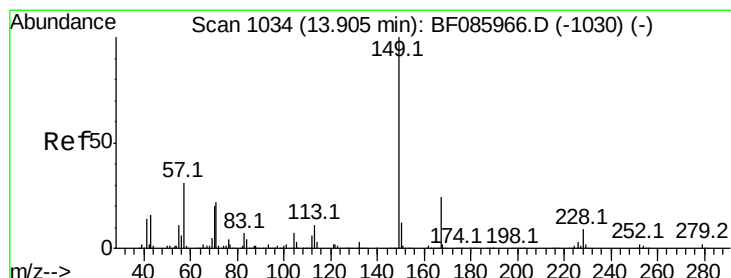
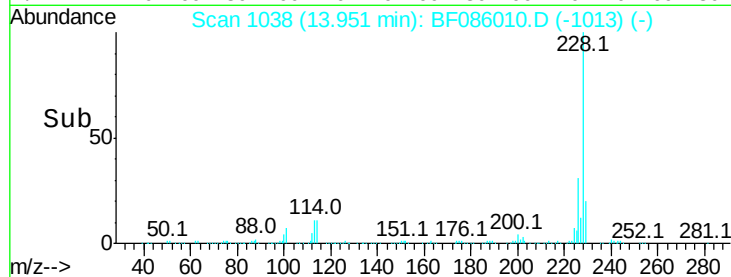
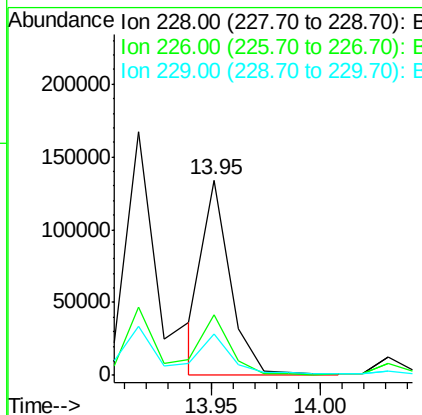
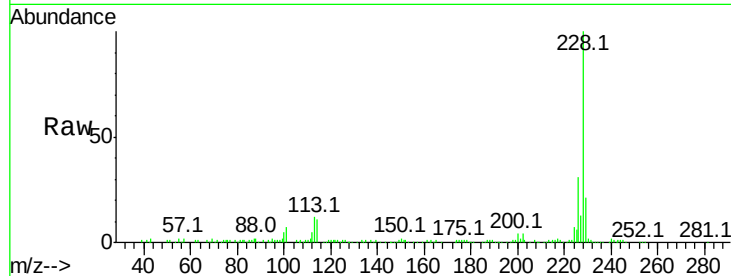
ClientSampleId :

BH-12(5-9)

Tot Ion:	228	Resp:	117646
Ion Ratio	Lower	Upper	
228	100		
226	30.9	25.0	37.6
229	21.0	15.7	23.5

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.04 ng

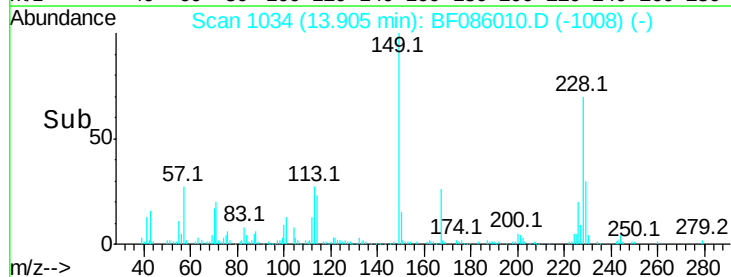
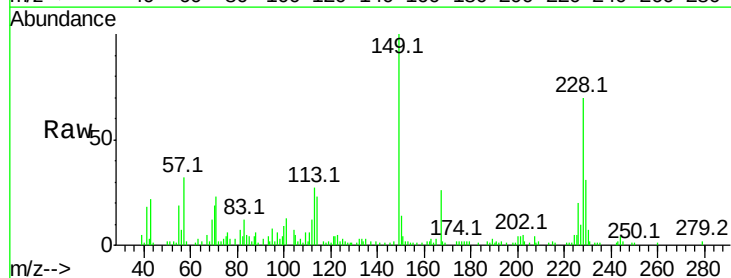
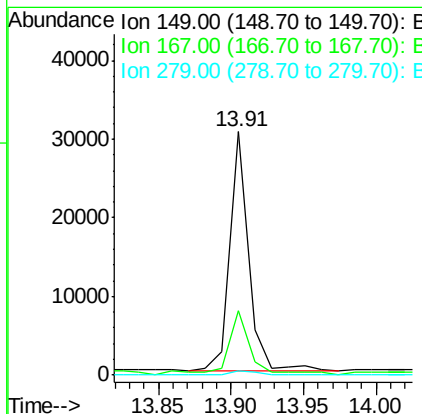
RT: 13.91 min Scan# 1034

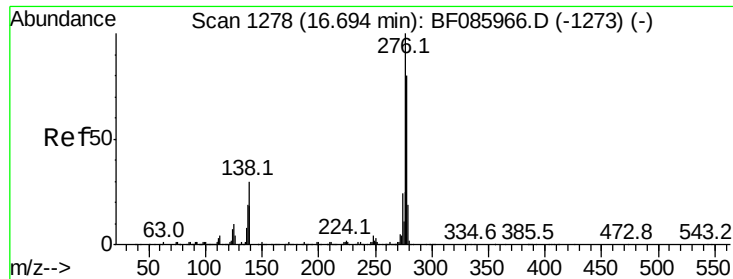
Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion:	149	Resp:	27119
Ion Ratio	Lower	Upper	
149	100		
167	26.3	19.4	29.2
279	2.0	1.5	2.3





#85

Indeno(1,2,3-cd)pyrene

Concen: 8.76 ng

RT: 16.69 min Scan# 1278

Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Instrument :

BNA_F

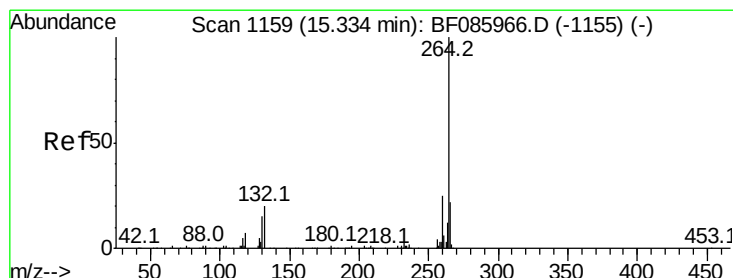
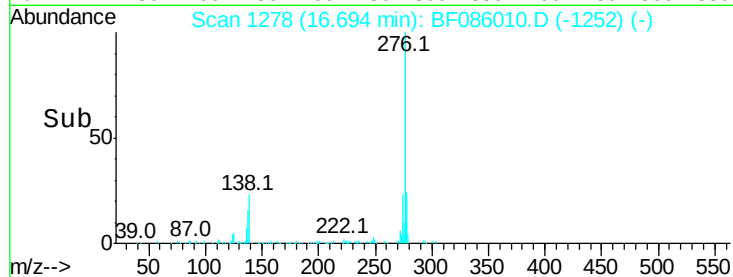
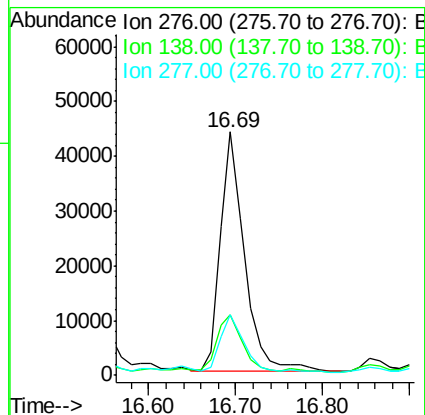
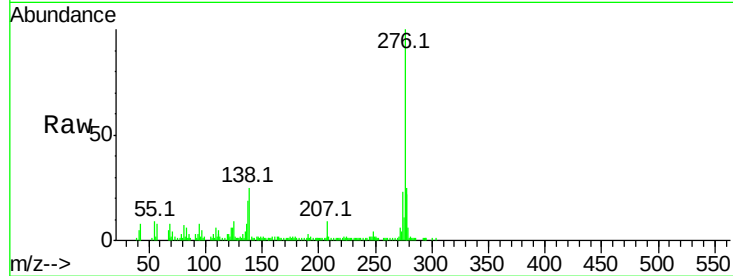
ClientSampleId :

BH-12(5-9)

Tot Ion:	276	Resp:	85477
Ion Ratio	Lower	Upper	
276	100		
138	25.6	24.2	36.4
277	23.7	20.0	30.0

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM



#86

Perylene-d12

Concen: 20.00 ng

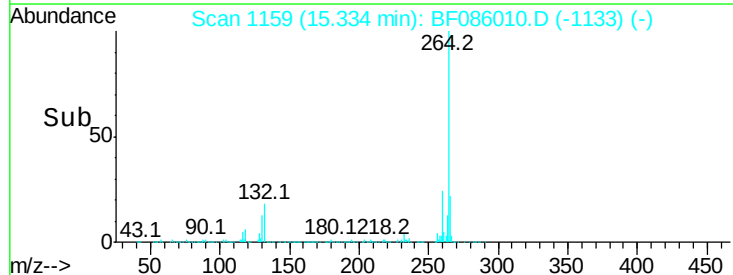
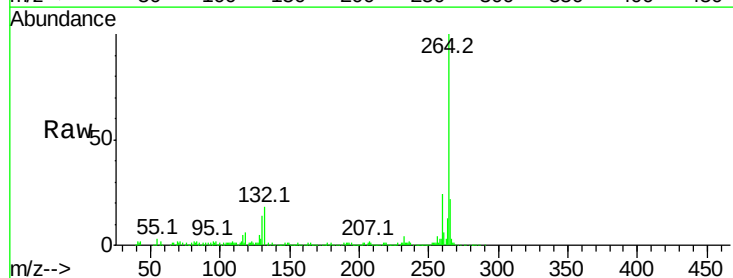
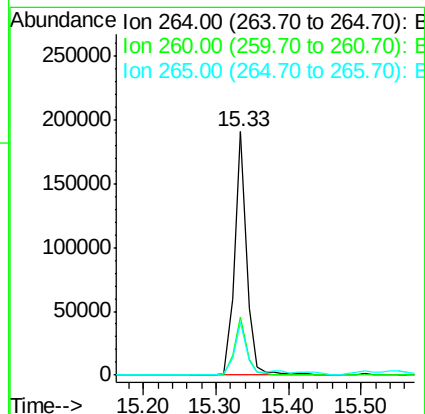
RT: 15.33 min Scan# 1159

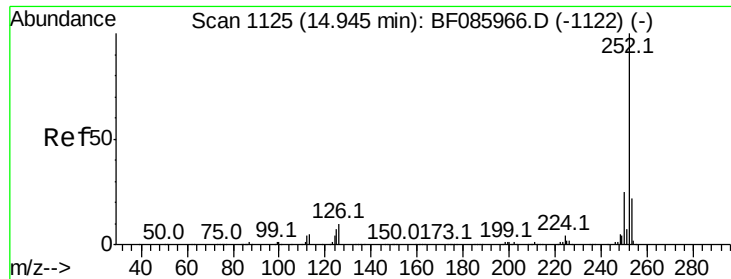
Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion:	264	Resp:	221379
Ion Ratio	Lower	Upper	
264	100		
260	24.0	19.4	29.2
265	21.6	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 14.53 ng m

RT: 14.93 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BF086010.D

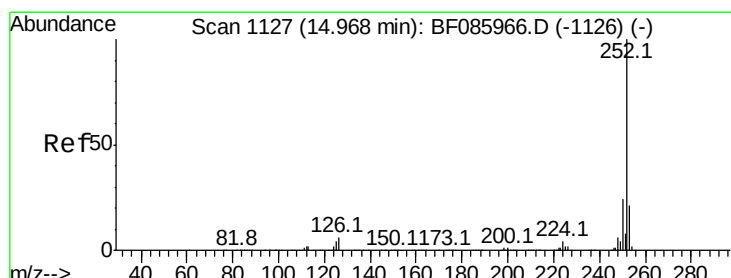
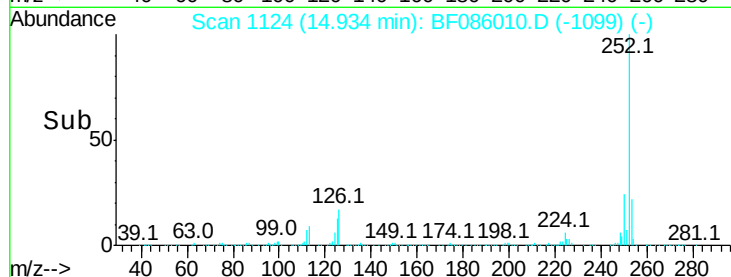
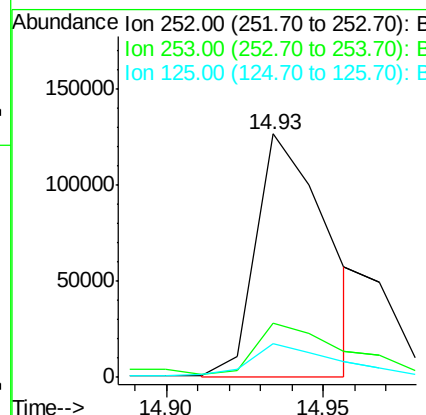
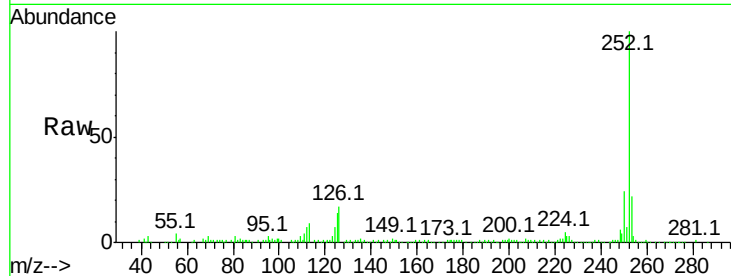
Acq: 2 Apr 2016 14:31

Instrument :
BNA_F
ClientSampleId :
BH-12(5-9)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	13.8	10.3	15.5

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM



#88

Benzo(k)fluoranthene

Concen: 3.79 ng m

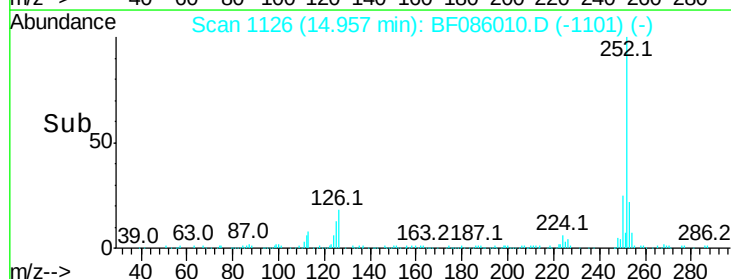
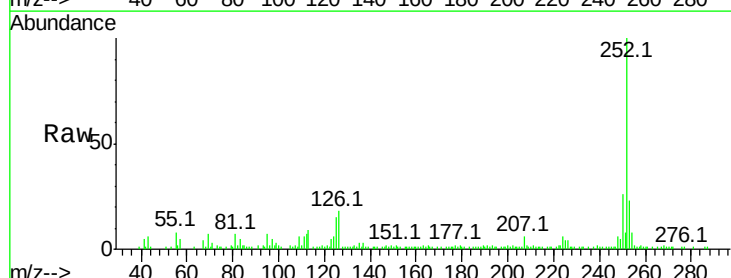
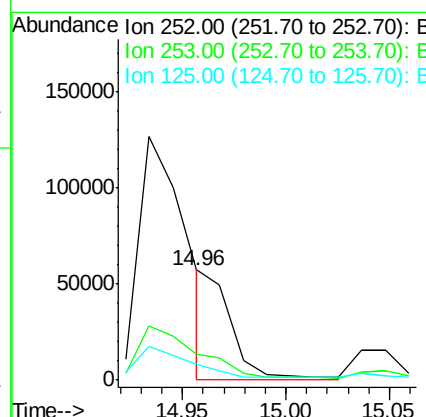
RT: 14.96 min Scan# 1126

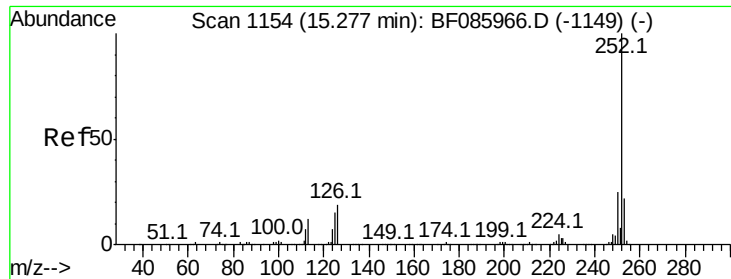
Delta R.T. -0.01 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	14.6	7.7	11.5#





#89

Benzo(a)pyrene

Concen: 10.46 ng

RT: 15.28 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Instrument :

BNA_F

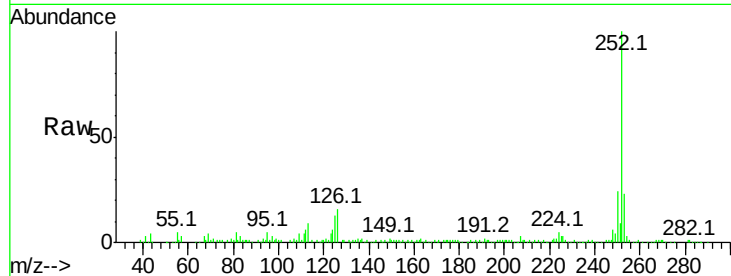
ClientSampleId :

BH-12(5-9)

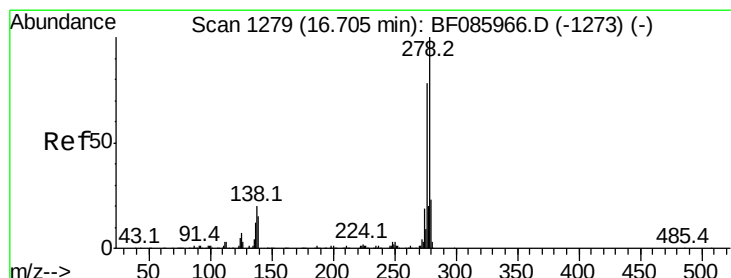
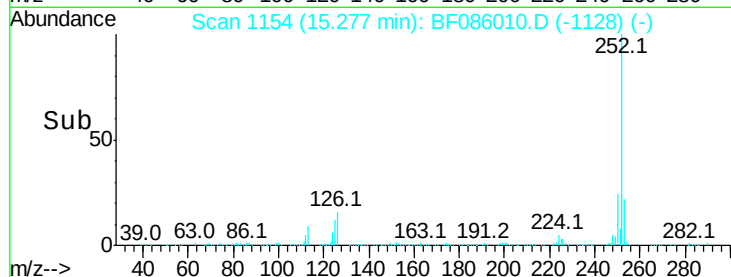
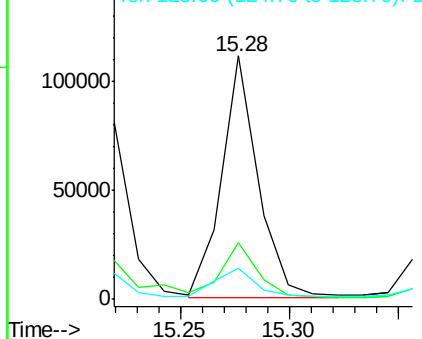
Tot Ion	Ratio	Resp	Lower	Upper
252	100	129024		
253	23.3	17.4	26.0	
125	12.5	10.3	15.5	

Manual Integrations
APPROVED

Sohil
4/4/2016 7:41:40 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.26 ng

RT: 16.69 min Scan# 1278

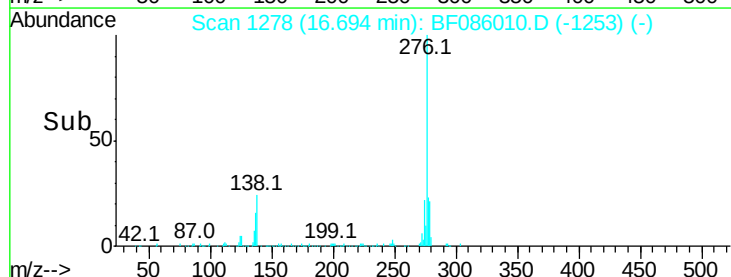
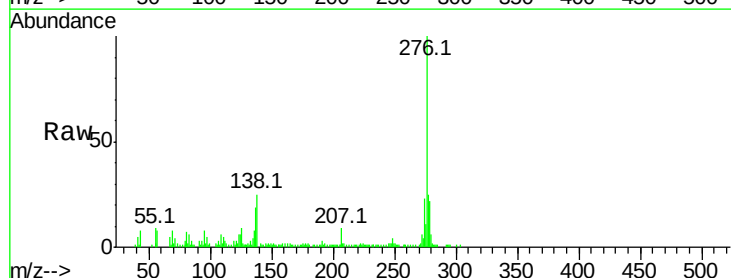
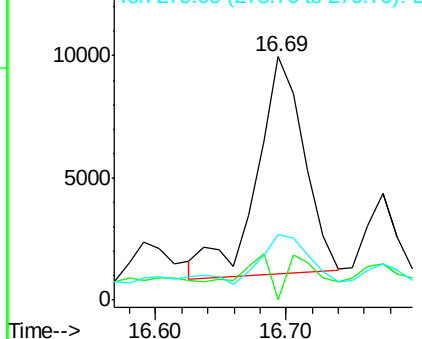
Delta R.T. -0.01 min

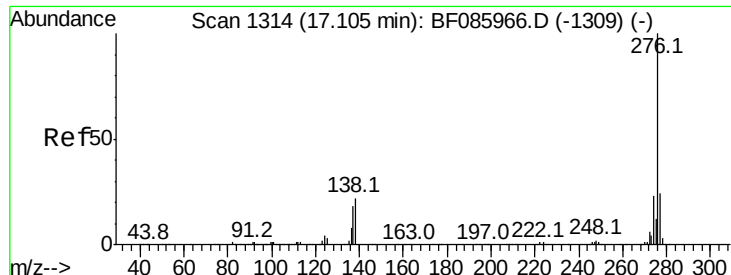
Lab File: BF086010.D

Acq: 2 Apr 2016 14:31

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	22440		
139	0.0	14.4	21.6#	
279	27.0	19.1	28.7	

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 8.55 ng
 RT: 17.11 min Scan# 1314
 Delta R.T. 0.00 min
 Lab File: BF086010.D
 Acq: 2 Apr 2016 14:31

Instrument :
 BNA_F
 ClientSampleId :
 BH-12(5-9)

Tot Ion:	276	Resp:	82145
Ion Ratio		Lower	Upper
276	100		
277	24.7	18.8	28.2
138	25.4	22.6	34.0

Manual Integrations
 APPROVED

Sohil
 4/4/2016 7:41:40 PM

