

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
 Data File : BF084820.D
 Acq On : 4 Feb 2016 7:52
 Operator : SJ/IZ
 Sample : H1322-04 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B008(5-7)

Manual Integrations
 APPROVED

mohammad
 2/4/2016 2:05:28 PM

Quant Time: Feb 04 10:01:05 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	180884	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	787434	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	339097	20.00	ng	-0.01
63) Phenanthrene-d10	11.21	188	590646	20.00	ng	0.00
75) Chrysene-d12	13.84	240	393794	20.00	ng	0.00
86) Perylene-d12	15.21	264	340620	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	236284	20.35	ng	-0.01
7) Phenol-d6	6.33	99	372820	25.90	ng	-0.01
23) Nitrobenzene-d5	7.25	82	223753	16.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.51	330	31636	8.94	ng	-0.01
44) 2-Fluorobiphenyl	9.05	172	379337	13.93	ng	-0.01
78) Terphenyl-d14	12.78	244	283996	16.34	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.00	128	109071	2.76	ng	96
49) Dimethylphthalate	9.45	163	66834	2.59	ng	# 90
51) Acenaphthene	9.76	154	79270	3.60	ng	98
54) Dibenzofuran	9.93	168	105963	3.94	ng	98
57) Fluorene	10.27	166	86180	3.83	ng	98
70) Phenanthrene	11.23	178	1320846	40.32	ng	97
71) Anthracene	11.28	178	354654	10.74	ng	98
72) Carbazole	11.44	167	87453	3.04	ng	97
74) Fluoranthene	12.41	202	1402398	42.30	ng	98
77) Pyrene	12.64	202	1195535	39.65	ng	98
80) Benzo(a)anthracene	13.83	228	521350m	21.33	ng	
82) Chrysene	13.86	228	449887m	18.98	ng	
85) Indeno(1,2,3-cd)pyrene	16.50	276	253980	13.61	ng	95
87) Benzo(b)fluoranthene	14.83	252	500061m	21.85	ng	
88) Benzo(k)fluoranthene	14.84	252	191658m	10.13	ng	
89) Benzo(a)pyrene	15.15	252	399635	20.49	ng	# 94
90) Dibenzo(a,h)anthracene	16.50	278	55127m	3.36	ng	
91) Benzo(g,h,i)perylene	16.89	276	265217	16.04	ng	96

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

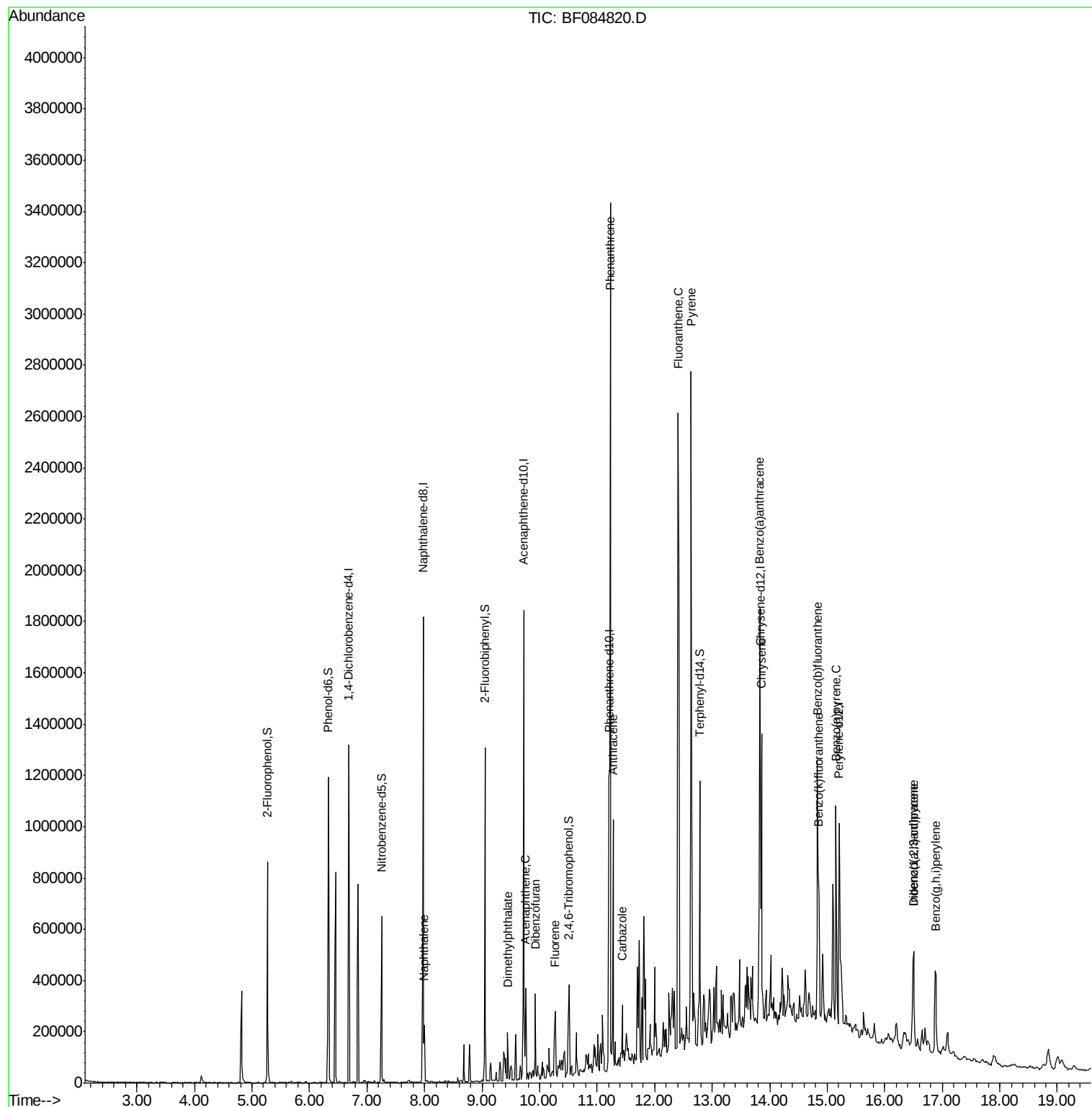
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084820.D
Acq On : 4 Feb 2016 7:52
Operator : SJ/IZ
Sample : H1322-04 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
S4-B008(5-7)

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM

Quant Time: Feb 04 10:01:05 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 14:16:01 2016
Response via : Initial Calibration





#1

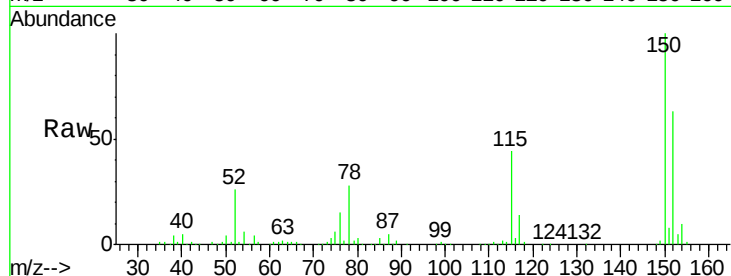
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.68 min Scan# 402
Delta R.T. -0.00 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Instrument :
BNA_F
ClientSampleId :
S4-B008(5-7)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	123.0	184.4
115	69.3	51.4	77.2

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM

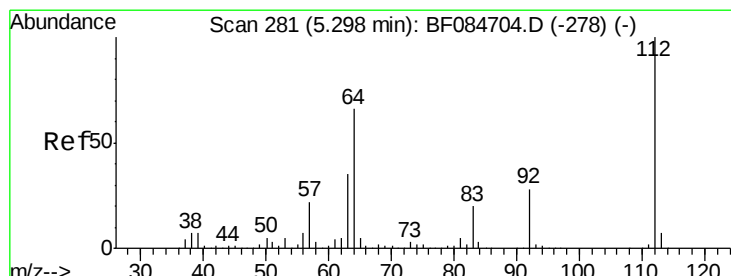
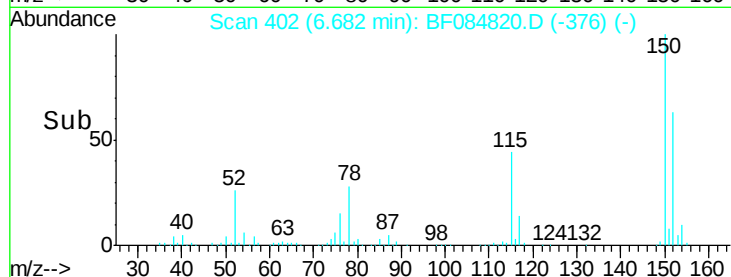
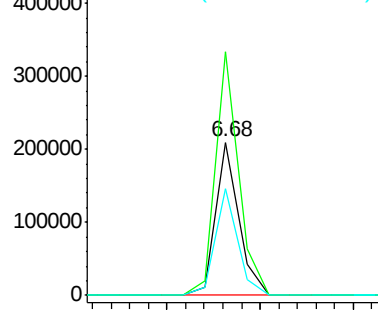


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

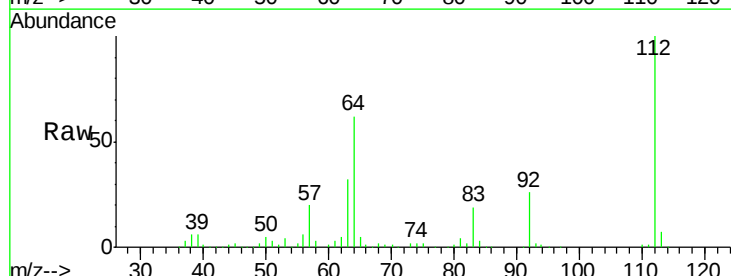
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 20.35 ng
RT: 5.26 min Scan# 278
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.2	36.6	55.0#
63	31.6	19.4	29.0#

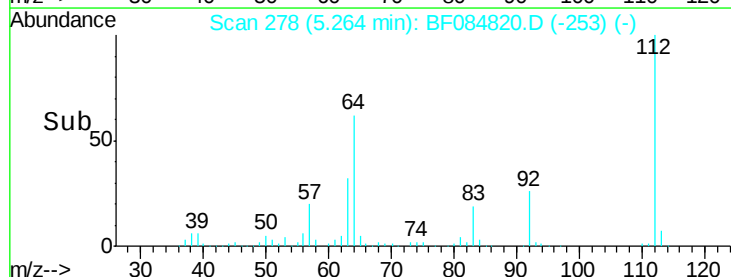
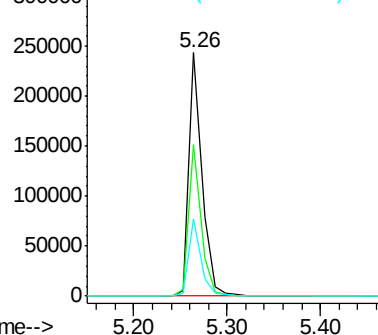


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 25.90 ng

RT: 6.33 min Scan# 371

Delta R.T. -0.01 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Instrument :

BNA_F

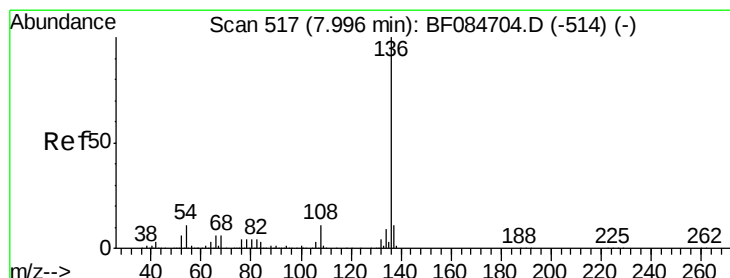
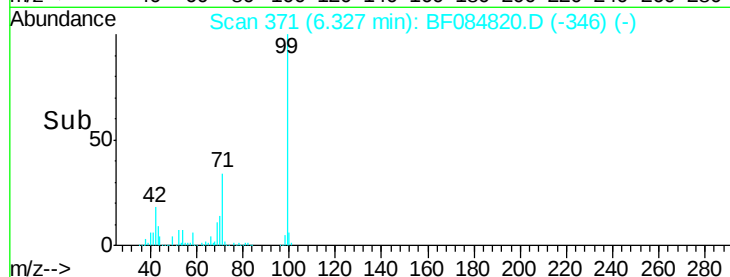
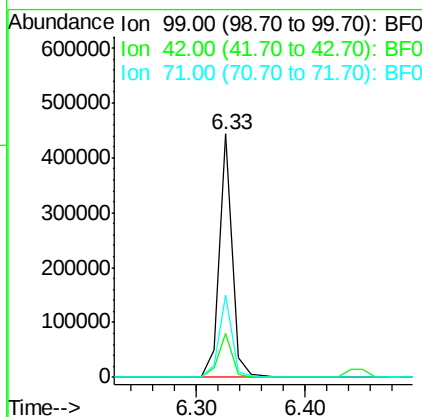
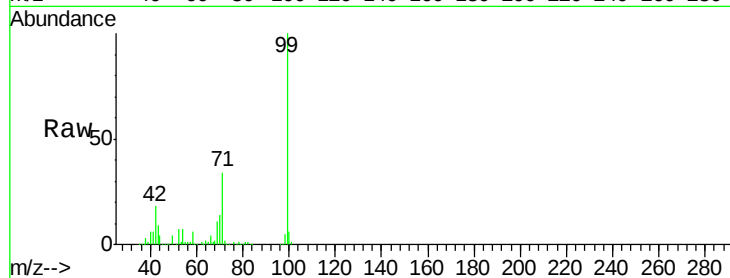
ClientSampleId :

S4-B008(5-7)

Tot Ion:	99	Resp:	372820
Ion Ratio	Lower	Upper	
99	100		
42	17.8	12.8	19.2
71	33.8	30.9	46.3

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM



#21

Naphthalene-d8

Concen: 20.00 ng

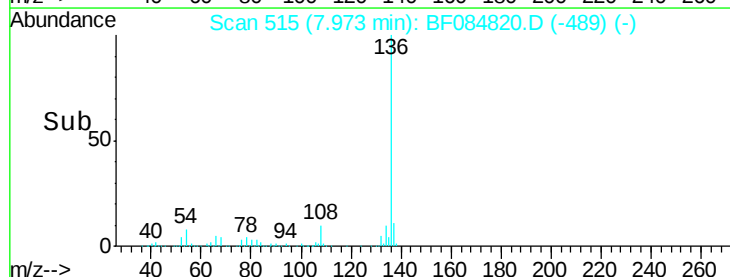
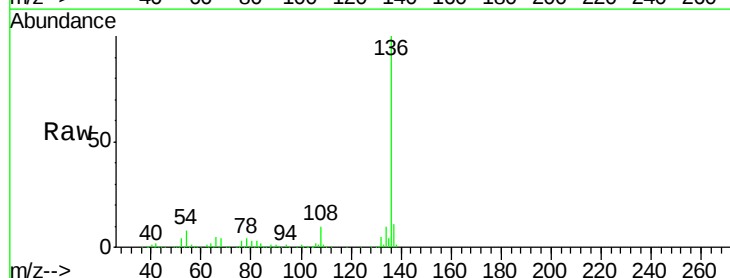
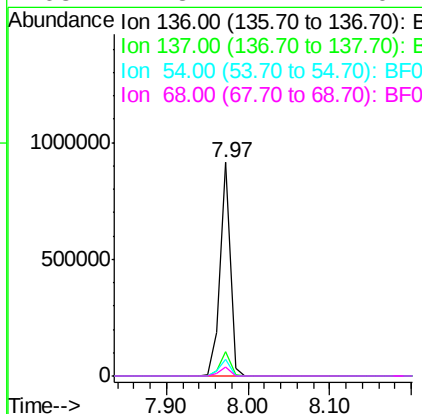
RT: 7.97 min Scan# 515

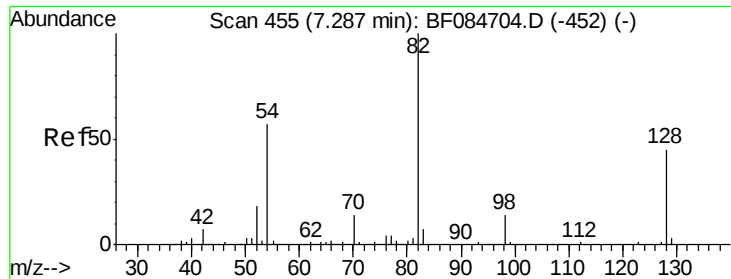
Delta R.T. -0.00 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Tgt Ion:	136	Resp:	787434
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.7	13.1
54	7.8	5.8	8.8
68	4.3	4.2	6.2





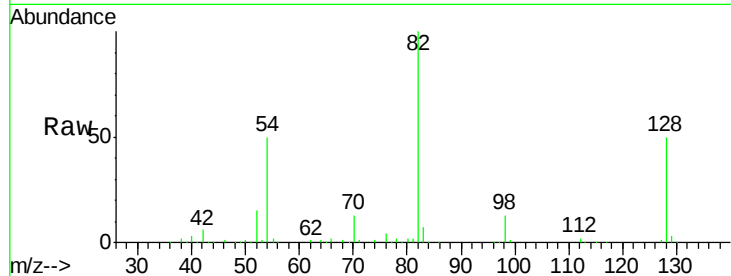
#23
Nitrobenzene-d5
Concen: 16.01 ng
RT: 7.25 min Scan# 452
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Instrument :
BNA_F
ClientSampleId :
S4-B008(5-7)

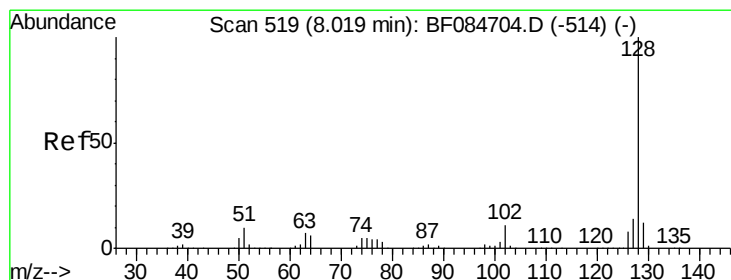
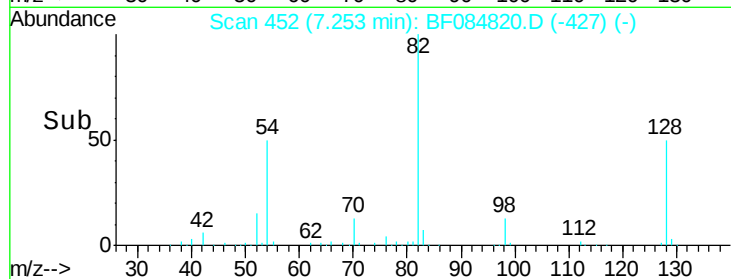
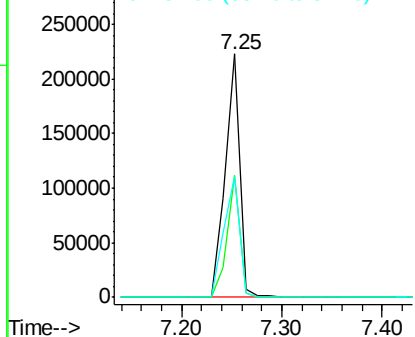
Tot Ion	Ratio	Lower	Upper
82	100		
128	50.0	34.6	51.8
54	49.7	38.4	57.6

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM

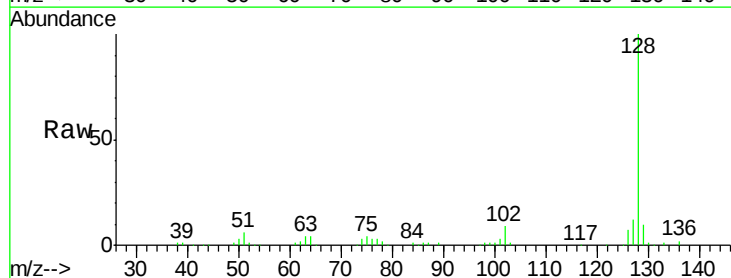


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

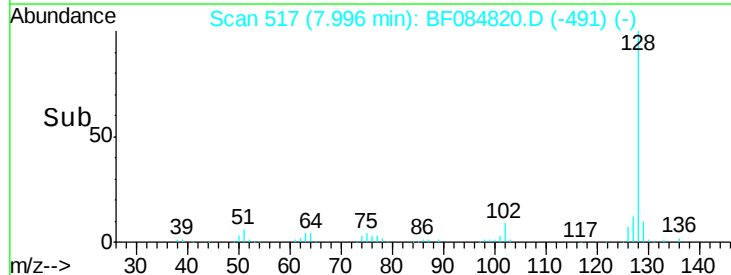
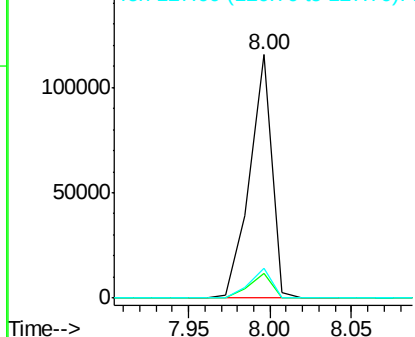


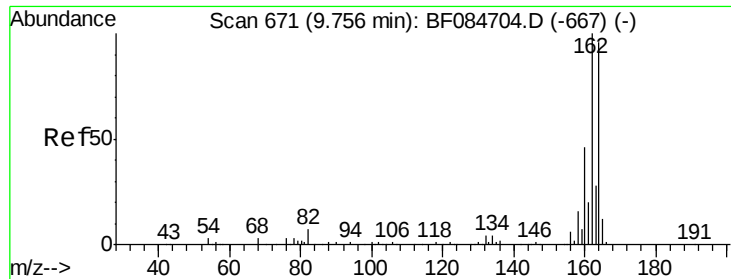
#31
Naphthalene
Concen: 2.76 ng
RT: 8.00 min Scan# 517
Delta R.T. -0.00 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.2	9.1	13.7
127	12.1	11.1	16.7



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





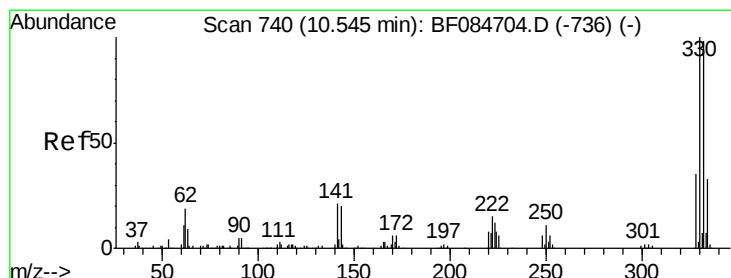
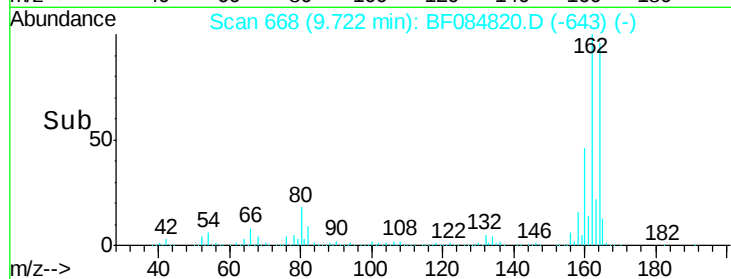
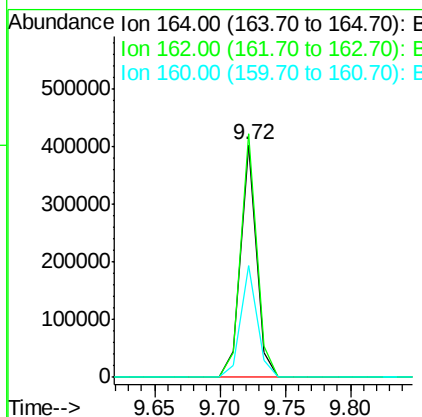
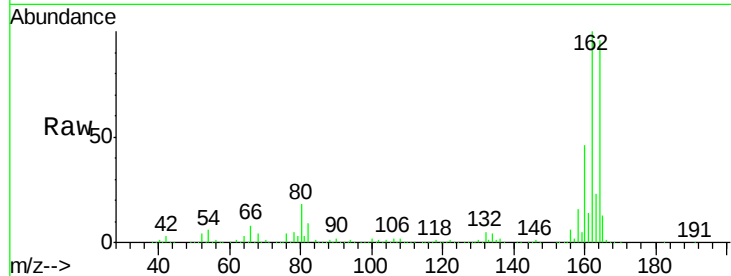
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Instrument :
BNA_F
ClientSampleId :
S4-B008(5-7)

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.7	85.1	127.7	
160	48.0	37.5	56.3	

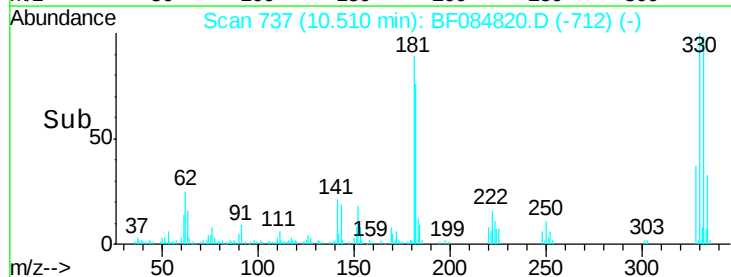
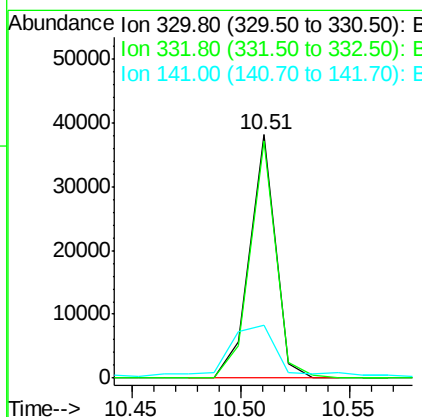
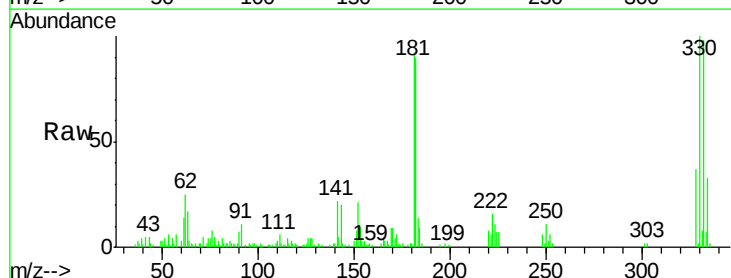
Manual Integrations
APPROVED

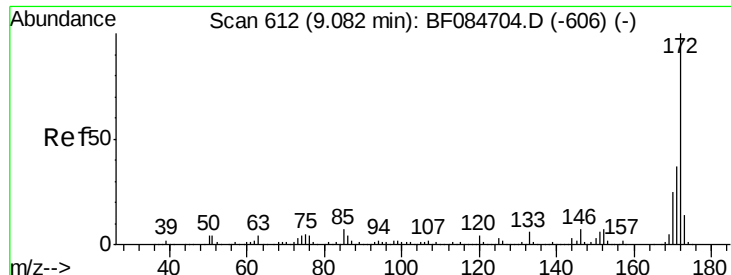
mohammad
2/4/2016 2:05:28 PM



#41
2,4,6-Tribromophenol
Concen: 8.94 ng
RT: 10.51 min Scan# 737
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.3	76.6	114.8	
141	38.3	27.8	41.6	





#44

2-Fluorobiphenyl

Concen: 13.93 ng

RT: 9.05 min Scan# 609

Delta R.T. -0.01 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Instrument :

BNA_F

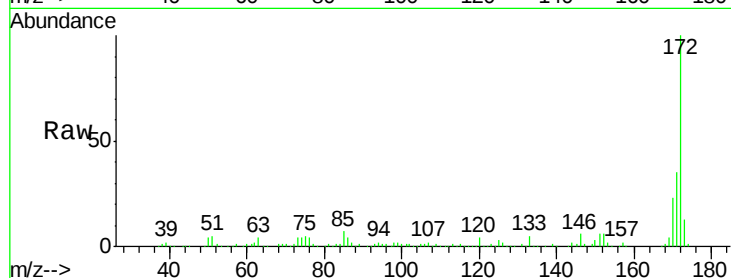
ClientSampleId :

S4-B008(5-7)

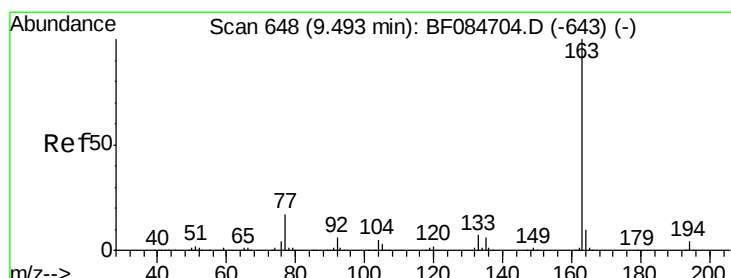
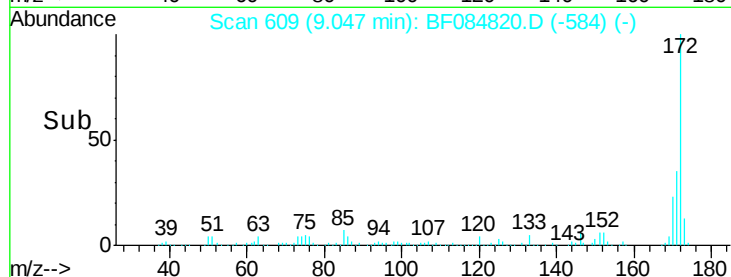
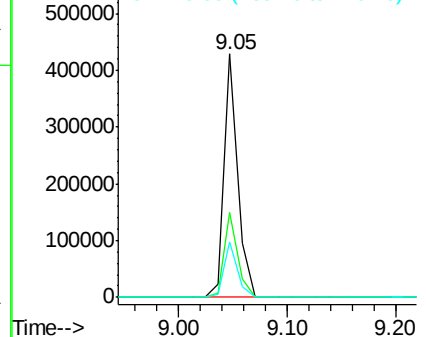
Tot Ion:	172	Resp:	379337
Ion Ratio	Lower	Upper	
172	100		
171	34.8	28.9	43.3
170	23.0	18.6	27.8

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM



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: 2.59 ng

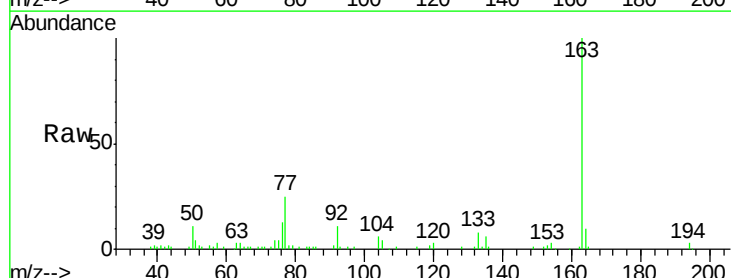
RT: 9.45 min Scan# 644

Delta R.T. -0.02 min

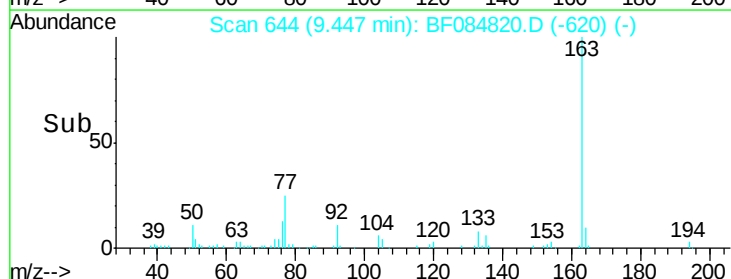
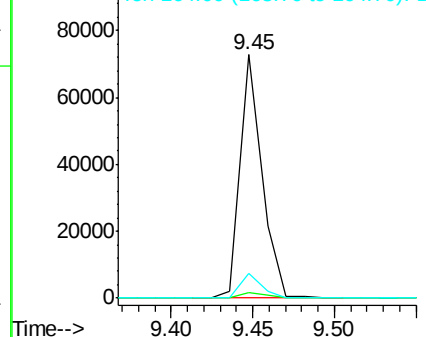
Lab File: BF084820.D

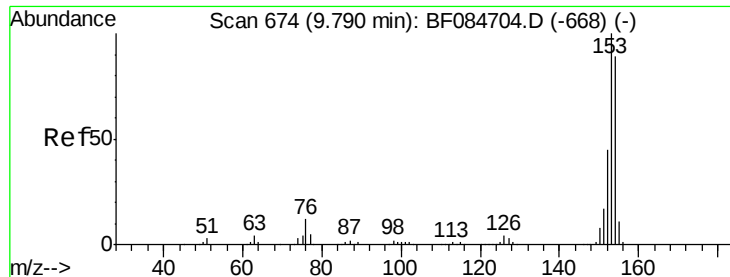
Acq: 4 Feb 2016 7:52

Tgt Ion:	163	Resp:	66834
Ion Ratio	Lower	Upper	
163	100		
194	2.5	8.0	12.0#
164	10.2	8.0	12.0



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





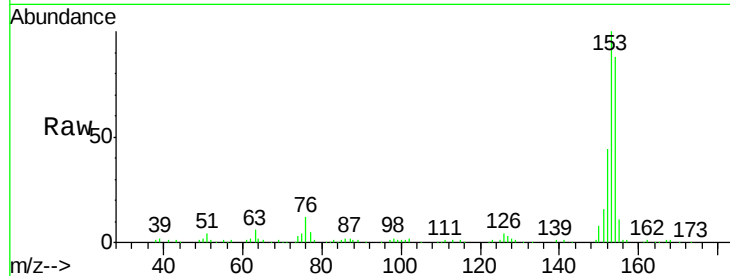
#51
Acenaphthene
Concen: 3.60 ng
RT: 9.76 min Scan# 671
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Instrument :
BNA_F
ClientSampled :
S4-B008(5-7)

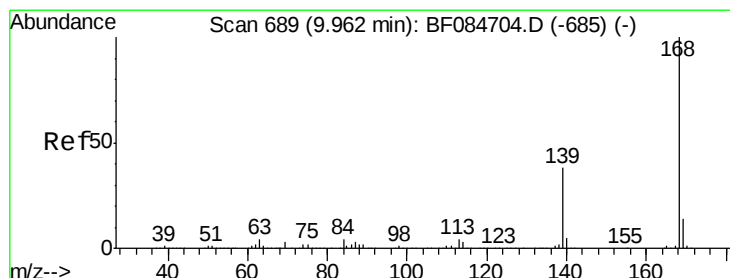
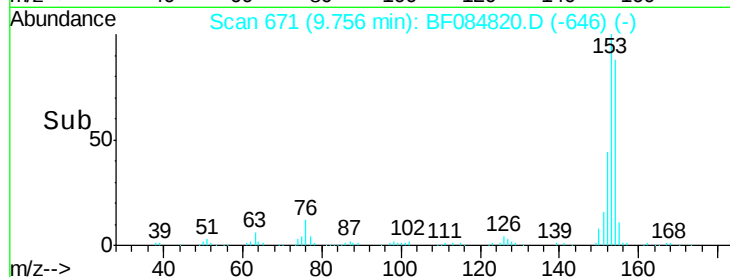
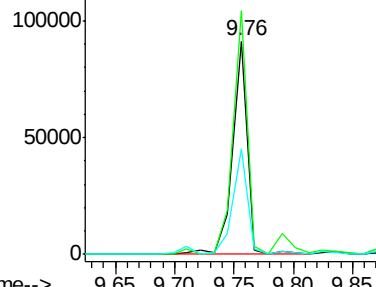
Tot Ion:	154	Resp:	79270
Ion Ratio	Lower	Upper	
154	100		
153	114.1	91.5	137.3
152	49.6	43.0	64.6

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM

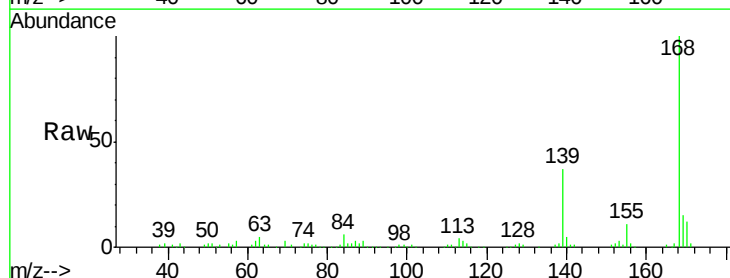


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

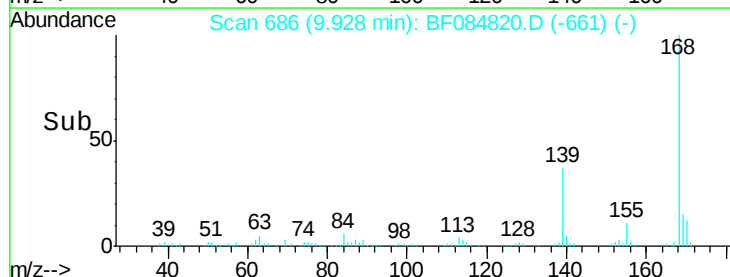
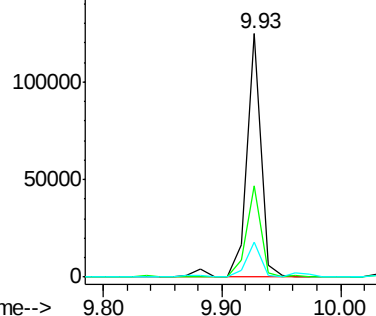


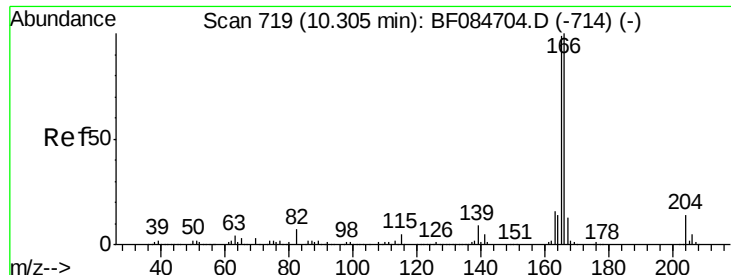
#54
Dibenzofuran
Concen: 3.94 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Tgt Ion:	168	Resp:	105963
Ion Ratio	Lower	Upper	
168	100		
139	37.3	30.5	45.7
169	14.5	10.4	15.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 3.83 ng

RT: 10.27 min Scan# 716

Delta R.T. -0.00 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Instrument :

BNA_F

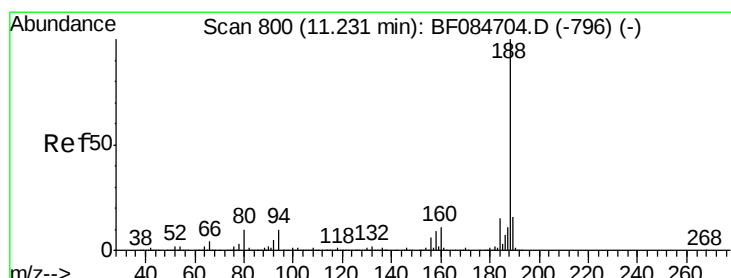
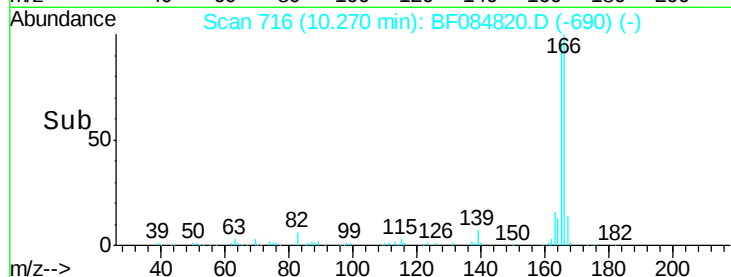
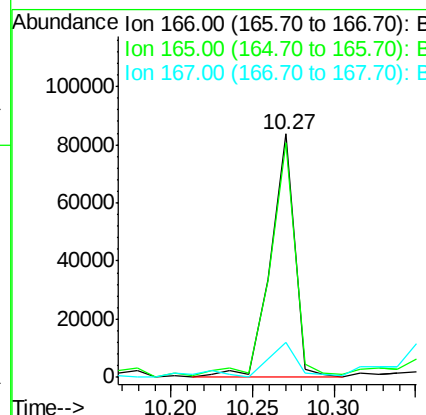
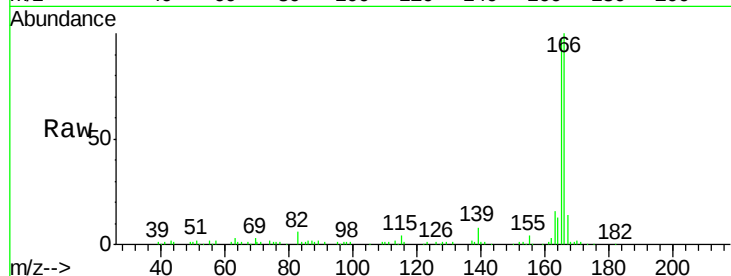
ClientSampleId :

S4-B008(5-7)

Tot Ion:	166	Resp:	86180
Ion Ratio	Lower	Upper	
166	100		
165	96.6	79.1	118.7
167	14.4	10.4	15.6

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

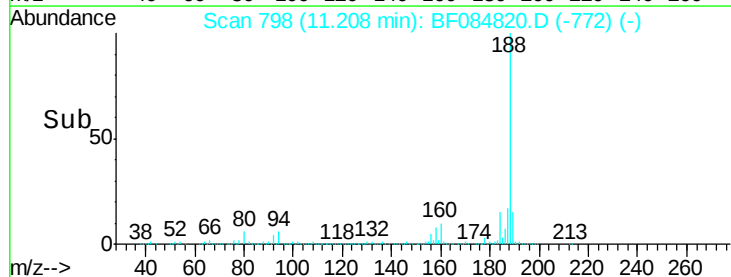
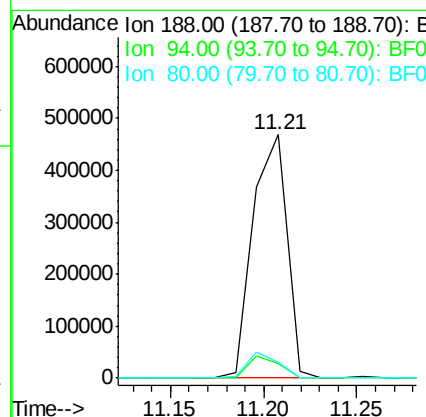
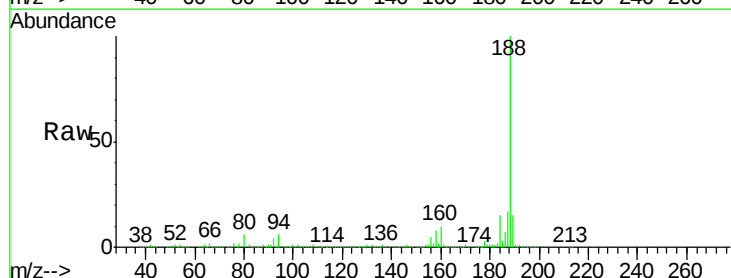
RT: 11.21 min Scan# 798

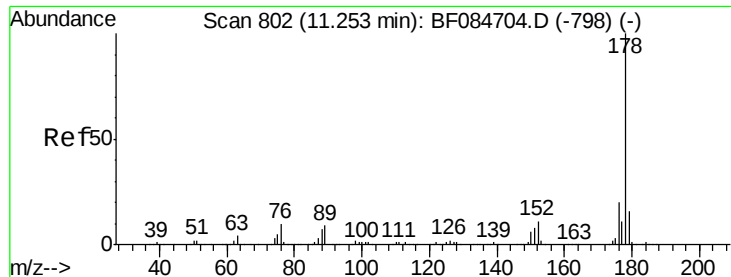
Delta R.T. -0.00 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Tgt Ion:	188	Resp:	590646
Ion Ratio	Lower	Upper	
188	100		
94	6.0	9.0	13.4#
80	6.3	9.6	14.4#





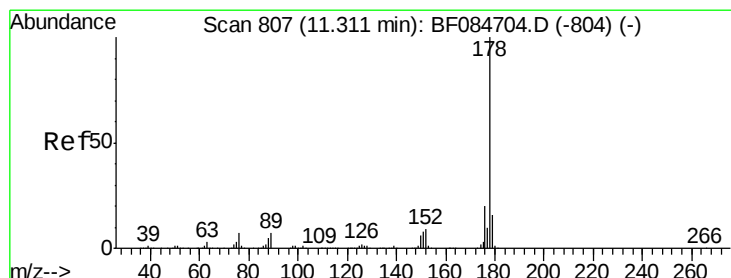
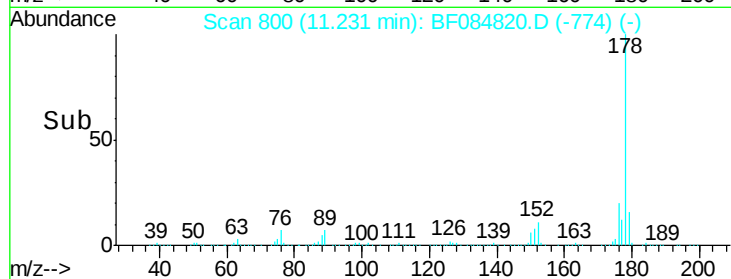
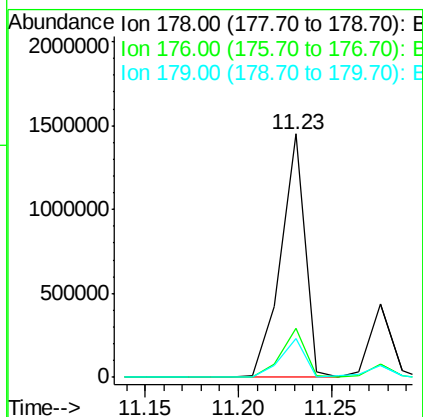
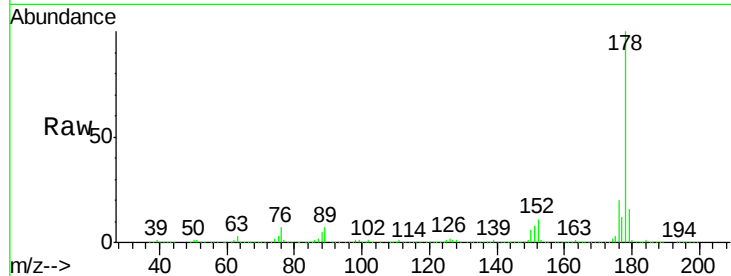
#70
Phenanthrene
Concen: 40.32 ng
RT: 11.23 min Scan# 800
Delta R.T. -0.00 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Instrument :
BNA_F
ClientSampleId :
S4-B008(5-7)

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.3	22.9
179	16.1	12.0	18.0

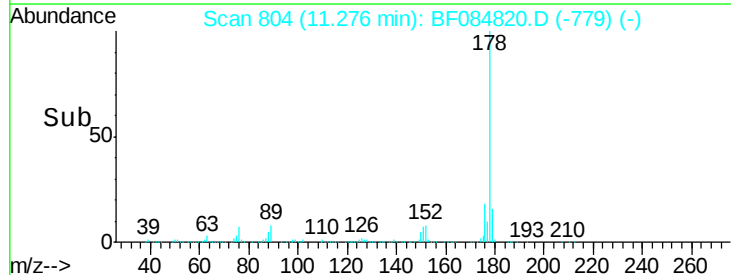
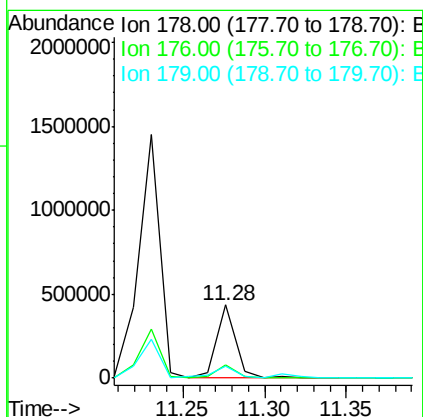
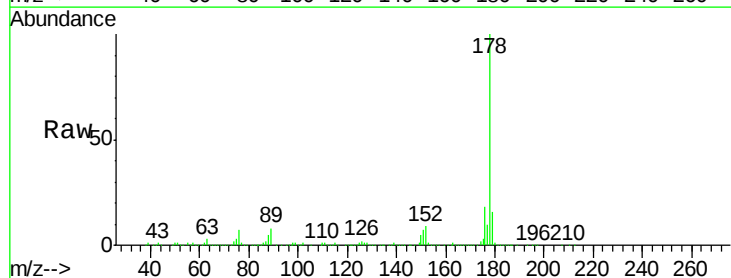
Manual Integrations
APPROVED

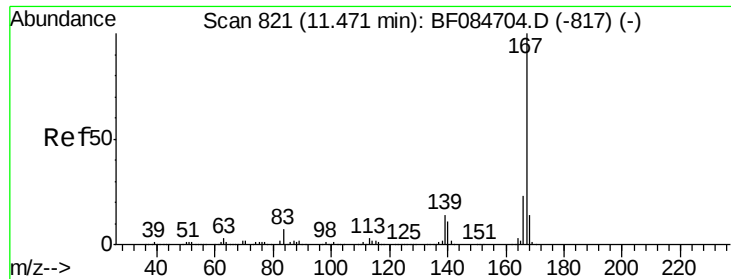
mohammad
2/4/2016 2:05:28 PM



#71
Anthracene
Concen: 10.74 ng
RT: 11.28 min Scan# 804
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.0
179	15.7	12.5	18.7





#72

Carbazole

Concen: 3.04 ng

RT: 11.44 min Scan# 818

Delta R.T. -0.01 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Instrument :

BNA_F

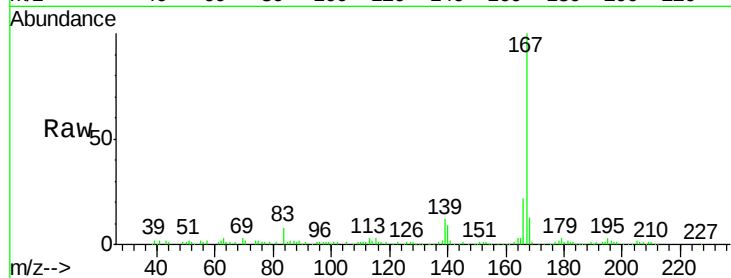
ClientSampleId :

S4-B008(5-7)

Tot Ion:	167	Resp:	87453
Ion Ratio	Lower	Upper	
167	100		
166	22.5	17.6	26.4
139	12.5	11.8	17.8

Manual Integrations
APPROVED

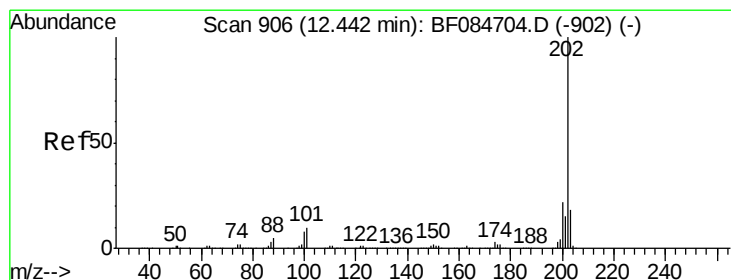
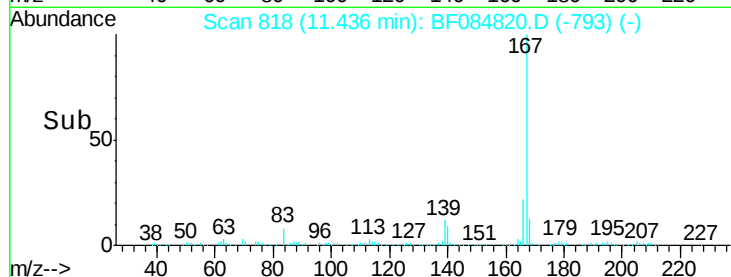
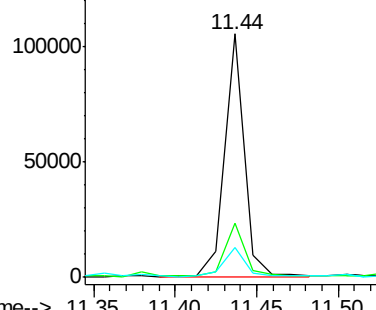
mohammad
2/4/2016 2:05:28 PM



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: 42.30 ng

RT: 12.41 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF084820.D

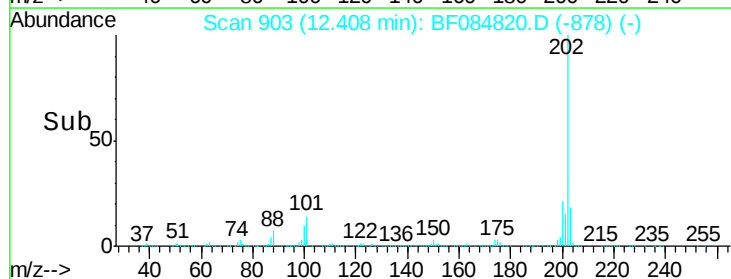
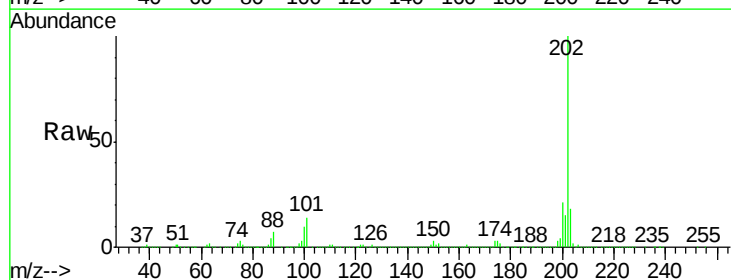
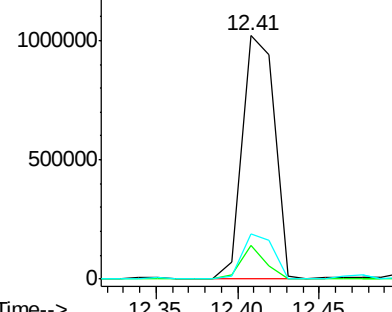
Acq: 4 Feb 2016 7:52

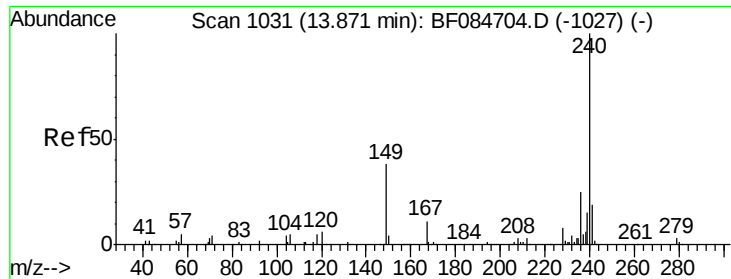
Tgt Ion:	202	Resp:	1402398
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	32.8
203	18.5	0.0	37.9

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.84 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Instrument :

BNA_F

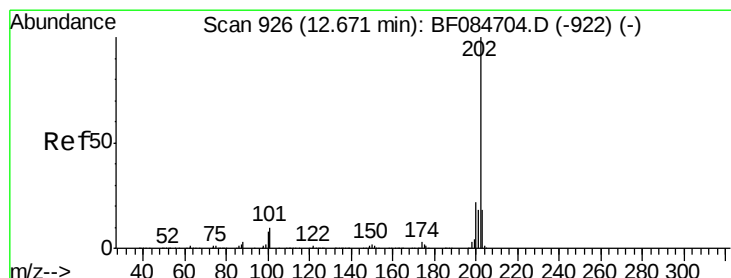
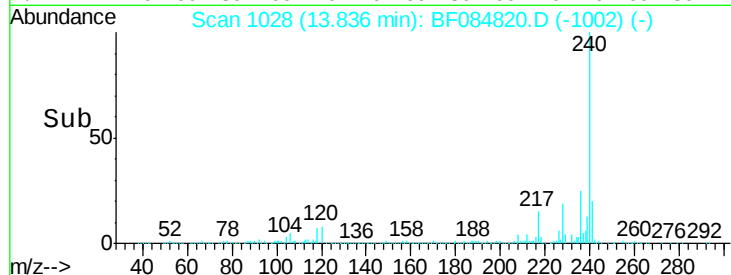
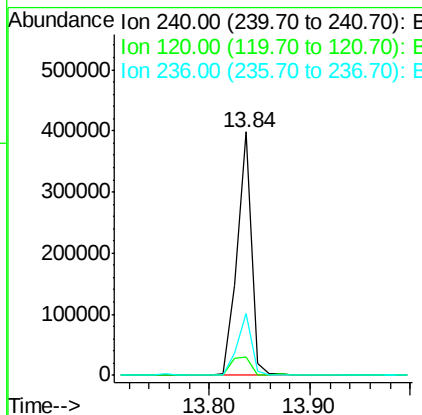
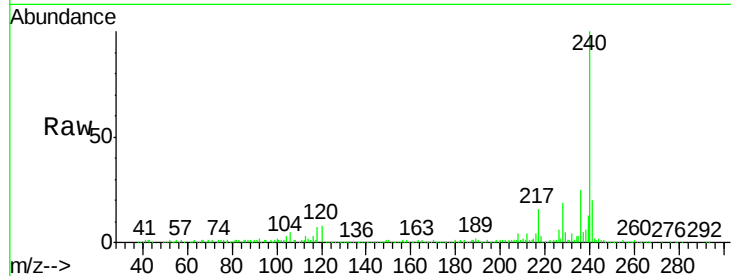
ClientSampleId :

S4-B008(5-7)

Tot Ion:	240	Resp:	393794
Ion Ratio	Lower	Upper	
240	100		
120	7.7	9.5	14.3#
236	25.3	20.6	31.0

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM



#77

Pyrene

Concen: 39.65 ng

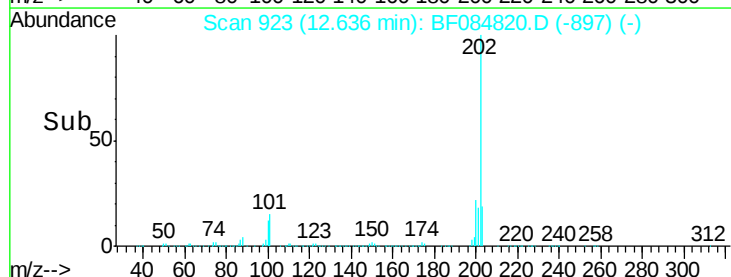
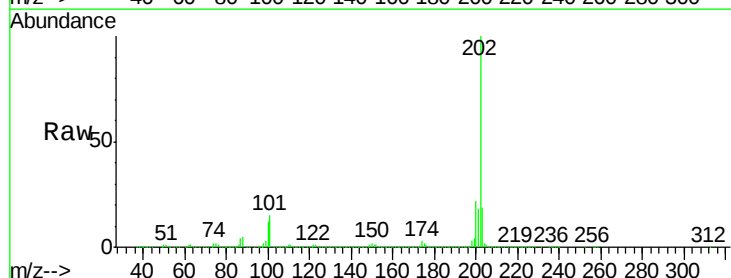
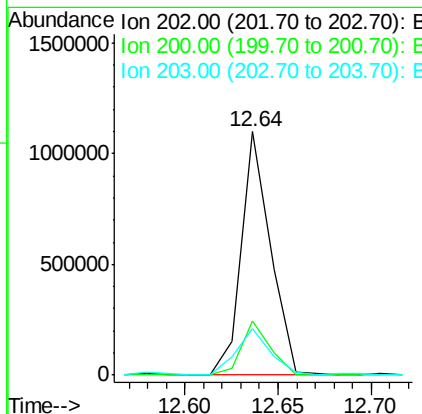
RT: 12.64 min Scan# 923

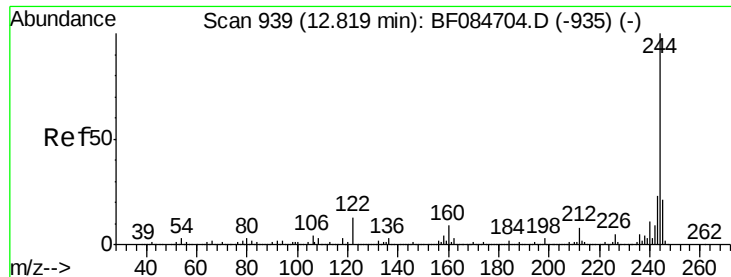
Delta R.T. -0.00 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Tgt Ion:	202	Resp:	1195535
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.2	25.8
203	19.3	14.3	21.5





#78

Terphenyl-d14

Concen: 16.34 ng

RT: 12.78 min Scan# 936

Delta R.T. -0.01 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Instrument :

BNA_F

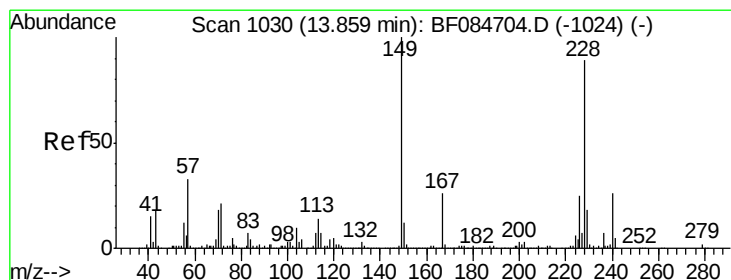
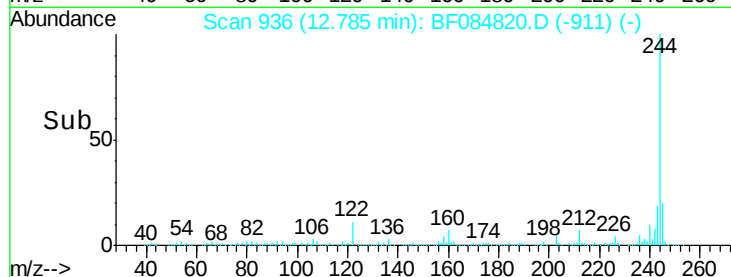
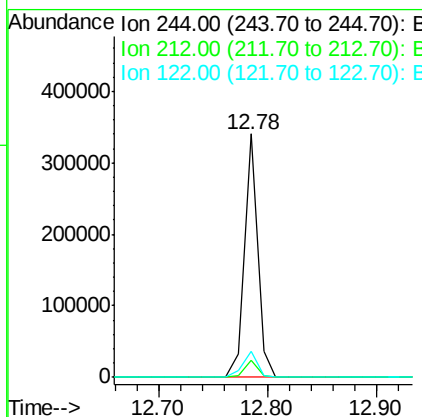
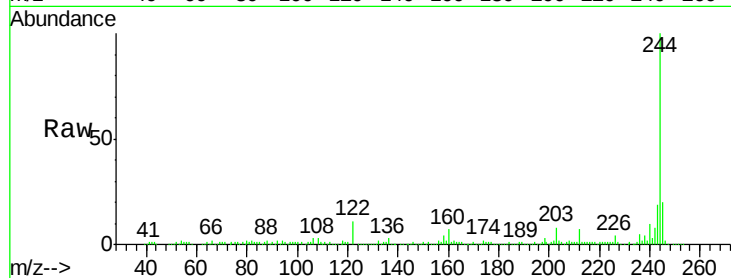
ClientSampleId :

S4-B008(5-7)

Tot Ion:	244	Resp:	283996
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.7	8.5
122	10.9	7.4	11.0

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM



#80

Benzo(a)anthracene

Concen: 21.33 ng m

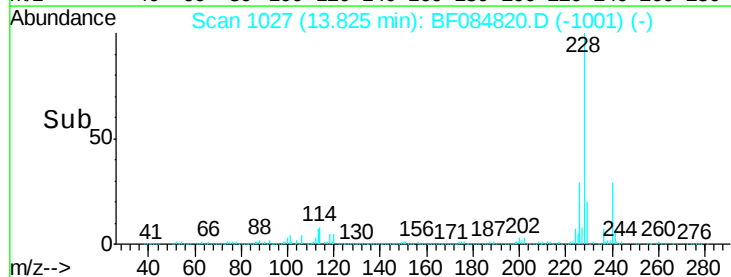
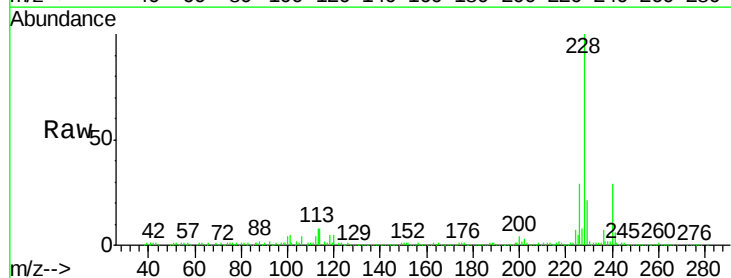
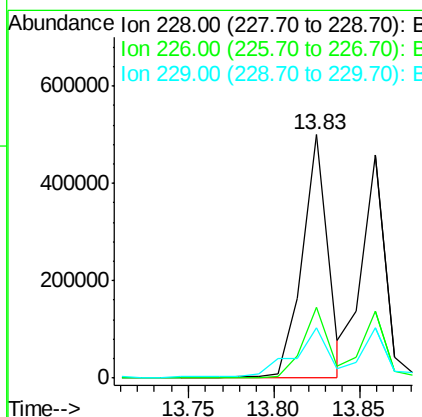
RT: 13.83 min Scan# 1027

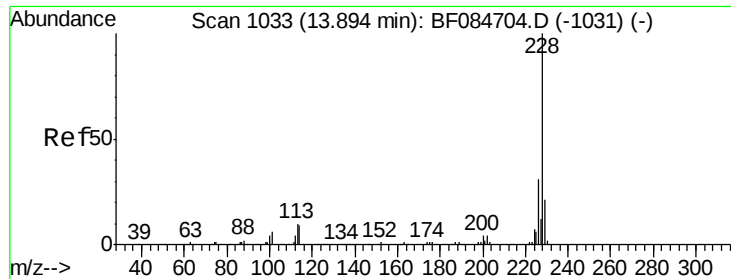
Delta R.T. -0.00 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Tgt Ion:	228	Resp:	521350
Ion Ratio	Lower	Upper	
228	100		
226	28.9	21.8	32.6
229	20.6	15.8	23.8





#82

Chrysene

Concen: 18.98 ng/mL

RT: 13.86 min Scan# 1030

Delta R.T. -0.00 min

Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Instrument :

BNA_F

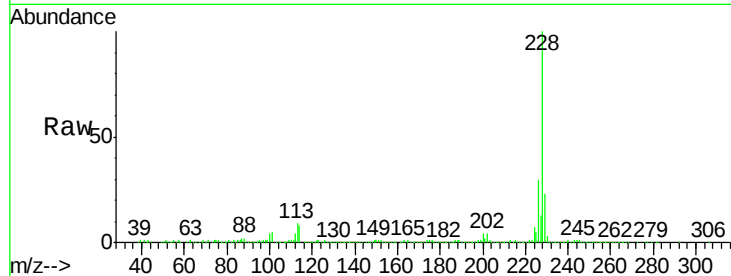
ClientSampleId :

S4-B008(5-7)

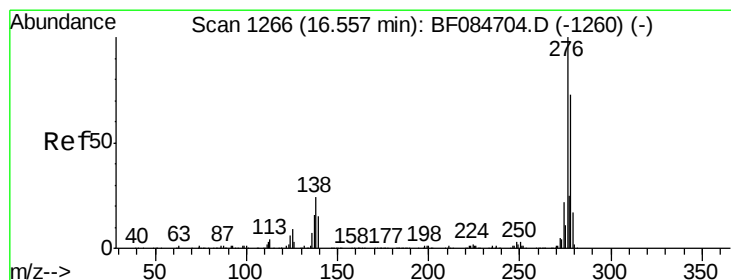
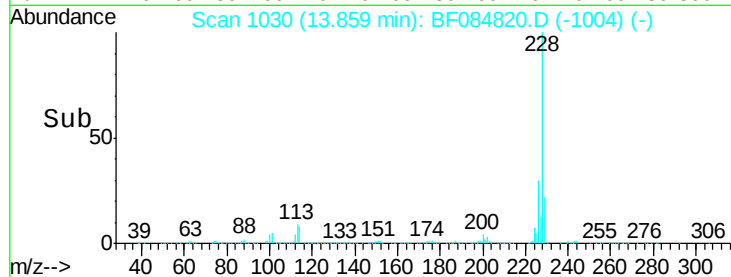
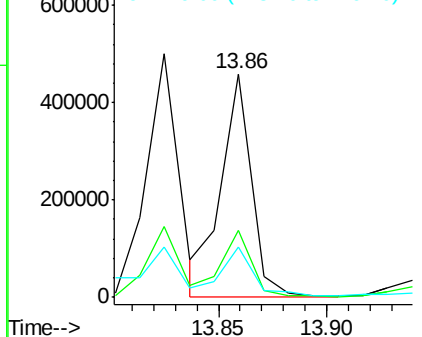
Tot Ion:	228	Resp:	449887
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.3	36.5
229	22.7	16.1	24.1

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM



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

Indeno(1,2,3-cd)pyrene

Concen: 13.61 ng/mL

RT: 16.50 min Scan# 1261

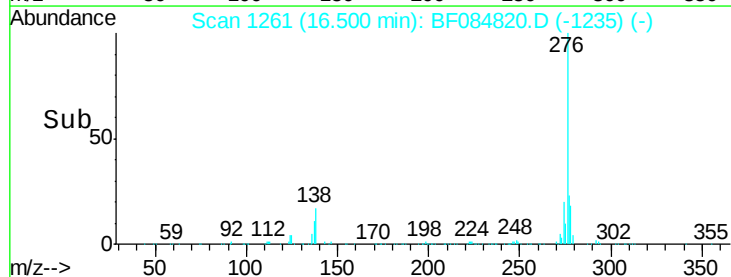
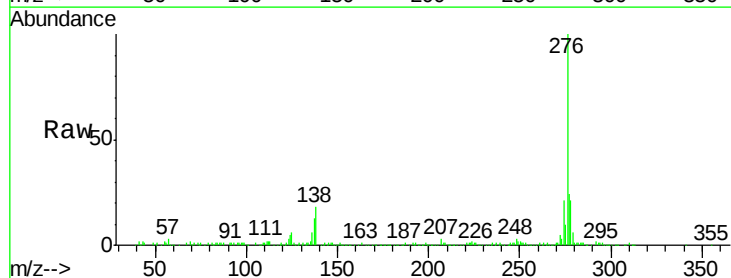
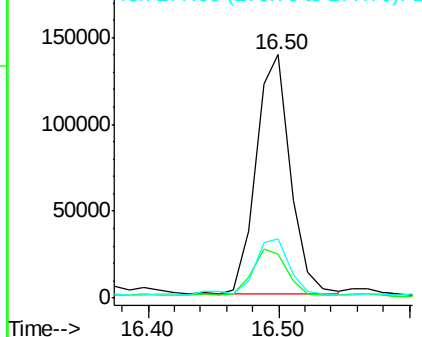
Delta R.T. -0.00 min

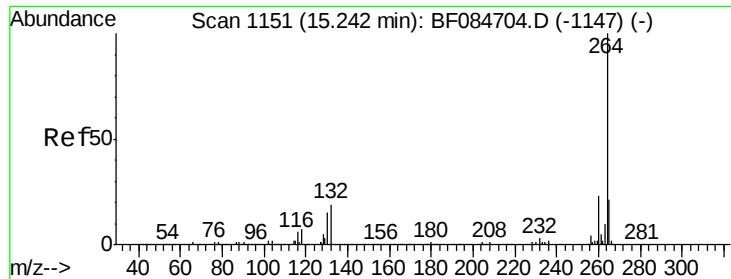
Lab File: BF084820.D

Acq: 4 Feb 2016 7:52

Tgt Ion:	276	Resp:	253980
Ion Ratio	Lower	Upper	
276	100		
138	21.9	20.6	30.8
277	25.9	20.1	30.1

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





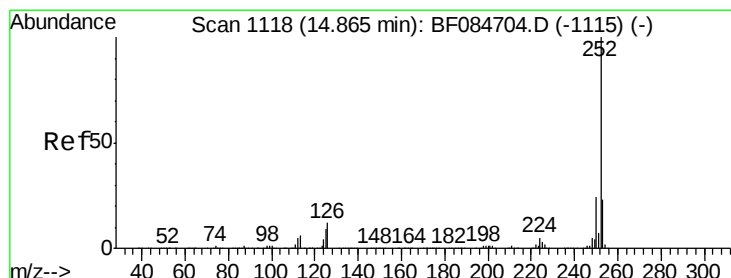
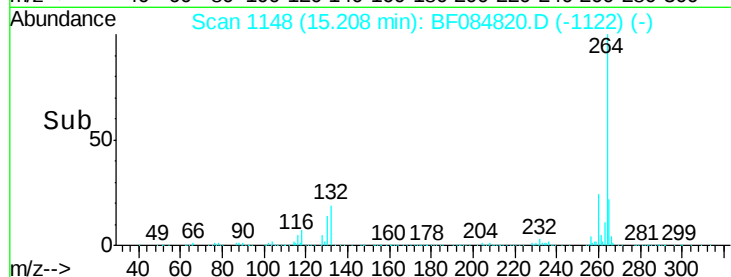
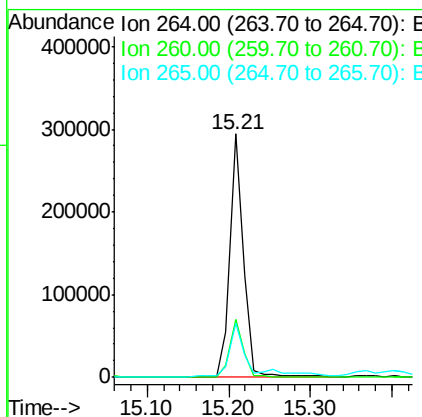
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.21 min Scan# 1148
Delta R.T. -0.00 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Instrument :
BNA_F
ClientSampleId :
S4-B008(5-7)

Tot Ion:	264	Resp:	340620
Ion Ratio	Lower	Upper	
264	100		
260	24.0	19.4	29.2
265	22.3	17.8	26.6

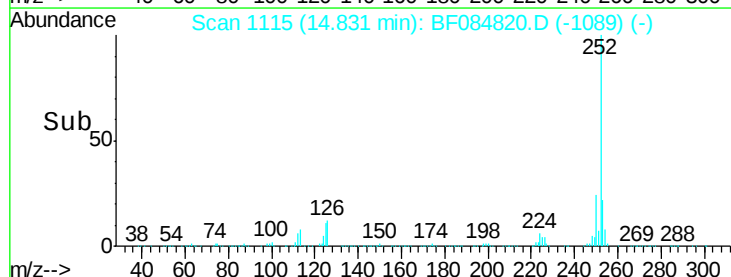
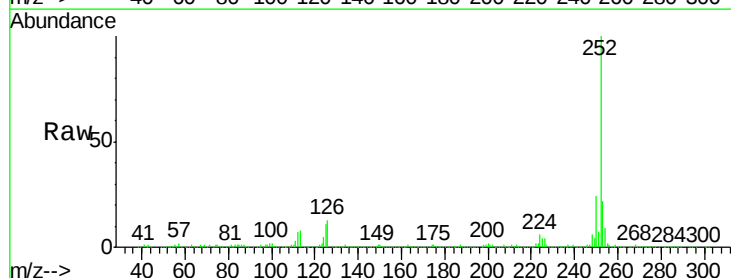
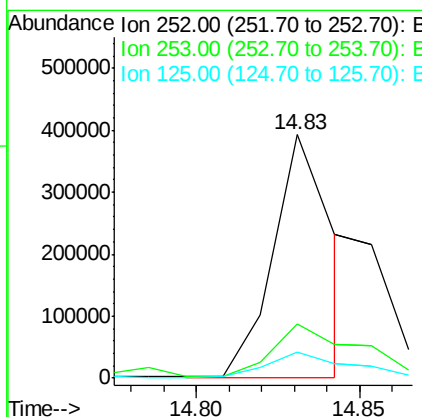
Manual Integrations
APPROVED

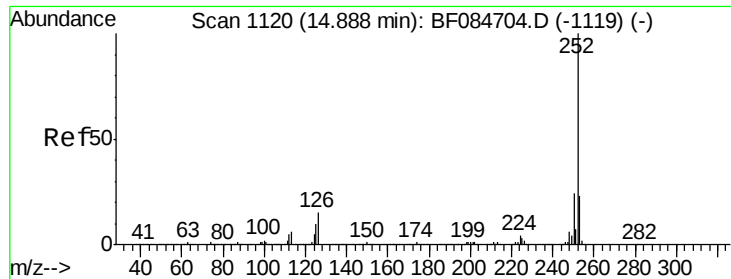
mohammad
2/4/2016 2:05:28 PM



#87
Benzo(b)fluoranthene
Concen: 21.85 ng m
RT: 14.83 min Scan# 1115
Delta R.T. -0.00 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Tgt Ion:	252	Resp:	500061
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.3	25.9
125	10.9	6.5	9.7#





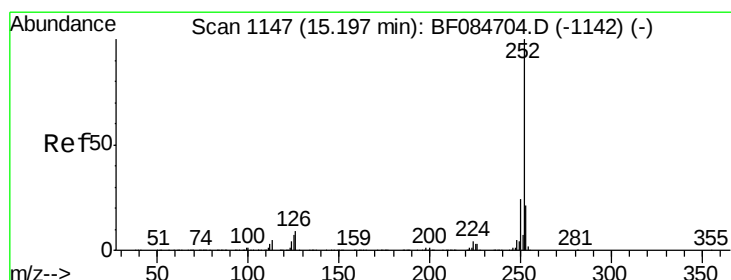
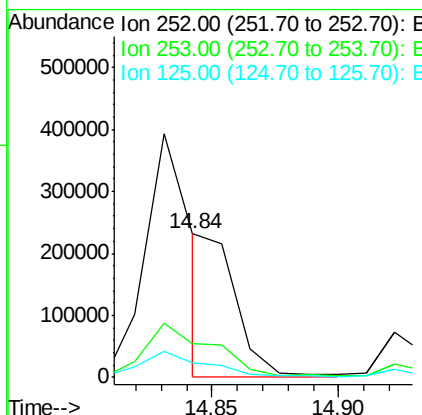
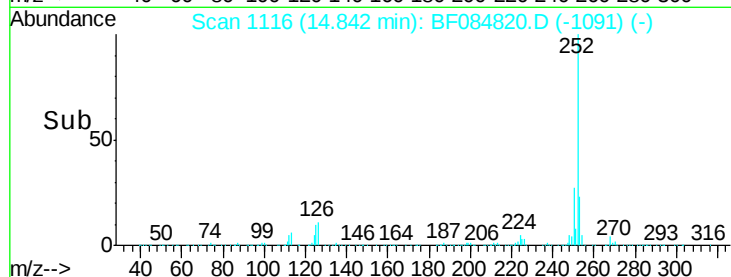
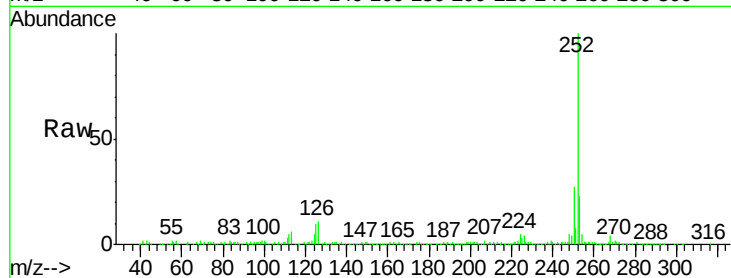
#88
Benzo(k)fluoranthene
Concen: 10.13 ng m
RT: 14.84 min Scan# 1116
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Instrument :
BNA_F
ClientSampleId :
S4-B008(5-7)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.1	27.1
125	10.4	9.0	13.6

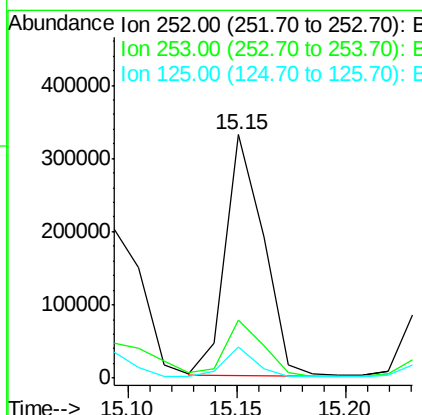
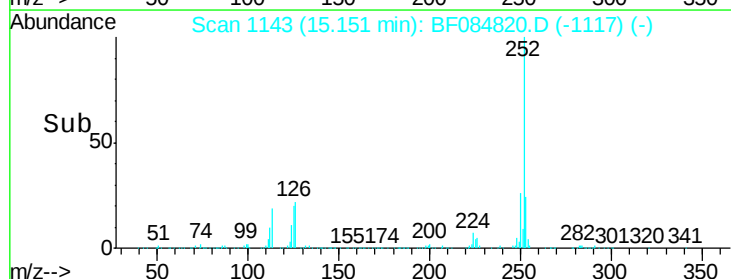
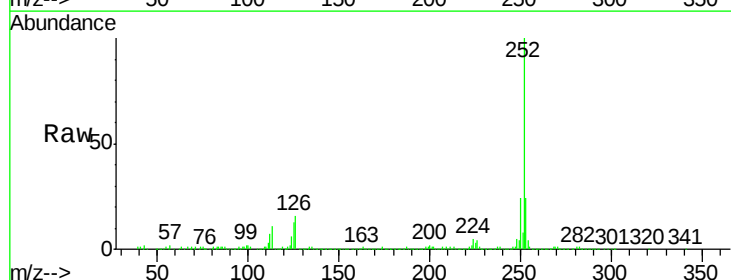
Manual Integrations
APPROVED

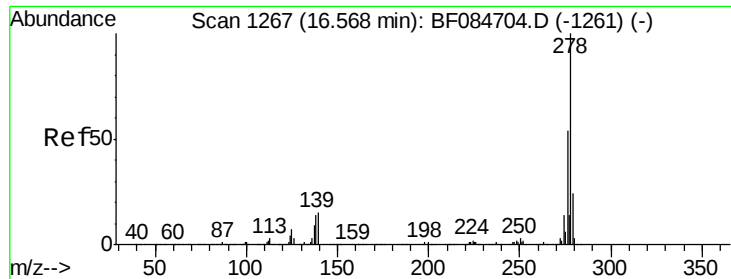
mohammad
2/4/2016 2:05:28 PM



#89
Benzo(a)pyrene
Concen: 20.49 ng
RT: 15.15 min Scan# 1143
Delta R.T. -0.00 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.3	25.9
125	12.6	7.0	10.4





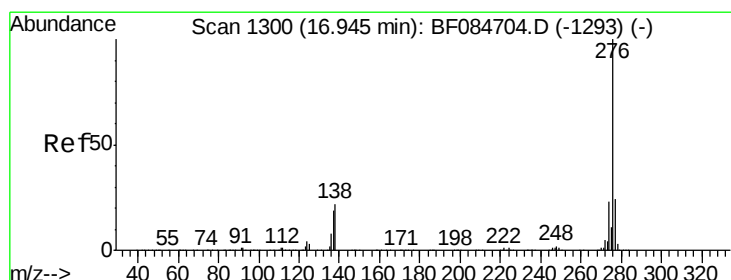
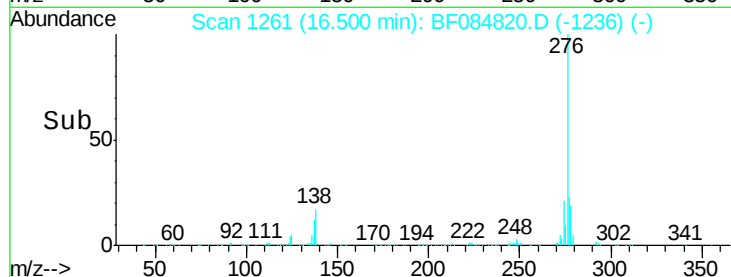
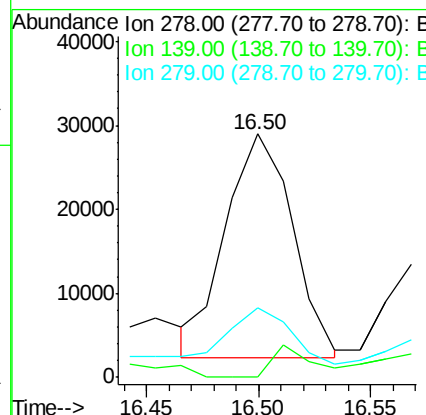
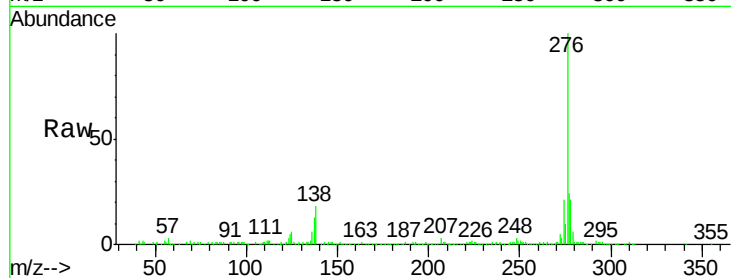
#90
Dibenzo(a,h)anthracene
Concen: 3.36 ng m
RT: 16.50 min Scan# 1261
Delta R.T. -0.01 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Instrument :
BNA_F
ClientSampleId :
S4-B008(5-7)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.0	22.4#
279	28.7	18.9	28.3#

Manual Integrations
APPROVED

mohammad
2/4/2016 2:05:28 PM



#91
Benzo(g,h,i)perylene
Concen: 16.04 ng
RT: 16.89 min Scan# 1295
Delta R.T. -0.00 min
Lab File: BF084820.D
Acq: 4 Feb 2016 7:52

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.8	28.2
138	18.8	17.8	26.6

