

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094166.D
 Acq On : 4 Apr 2017 13:41
 Operator : SJ/MA
 Sample : I2510-09DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

Manual Integrations
 APPROVED

mohammad
 4/4/2017 5:35:48 PM

Quant Time: Apr 04 14:05:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	159550	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	585959	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	227180	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	356447	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	306572	20.00	ng	-0.01
86) Perylene-d12	16.24	264	212713	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	82711	8.76	ng	-0.02
7) Phenol-d6	5.49	99	107611	9.21	ng	-0.02
23) Nitrobenzene-d5	6.53	82	49711	4.84	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	12829	7.15	ng	-0.02
44) 2-Fluorobiphenyl	8.71	172	126321	8.48	ng	-0.02
78) Terphenyl-d14	13.33	244	80067	5.85	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.36	152	114360	4.80	ng	99
70) Phenanthrene	11.39	178	108273	5.46	ng	98
71) Anthracene	11.45	178	92247	4.52	ng	99
74) Fluoranthene	12.85	202	486534	23.96	ng	98
77) Pyrene	13.13	202	433059	19.46	ng	97
80) Benzo(a)anthracene	14.60	228	214897m	12.02	ng	
82) Chrysene	14.64	228	248579	14.98	ng	98
85) Indeno(1,2,3-cd)pyrene	17.59	276	95525	6.65	ng	94
87) Benzo(b)fluoranthene	15.84	252	292985m	22.47	ng	
88) Benzo(k)fluoranthene	15.86	252	94079m	7.37	ng	
89) Benzo(a)pyrene	16.19	252	127474	10.62	ng	98
90) Dibenzo(a,h)anthracene	17.60	278	25371	2.50	ng	# 86
91) Benzo(a,h,i)perylene	17.99	276	79318	7.74	ng	98

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

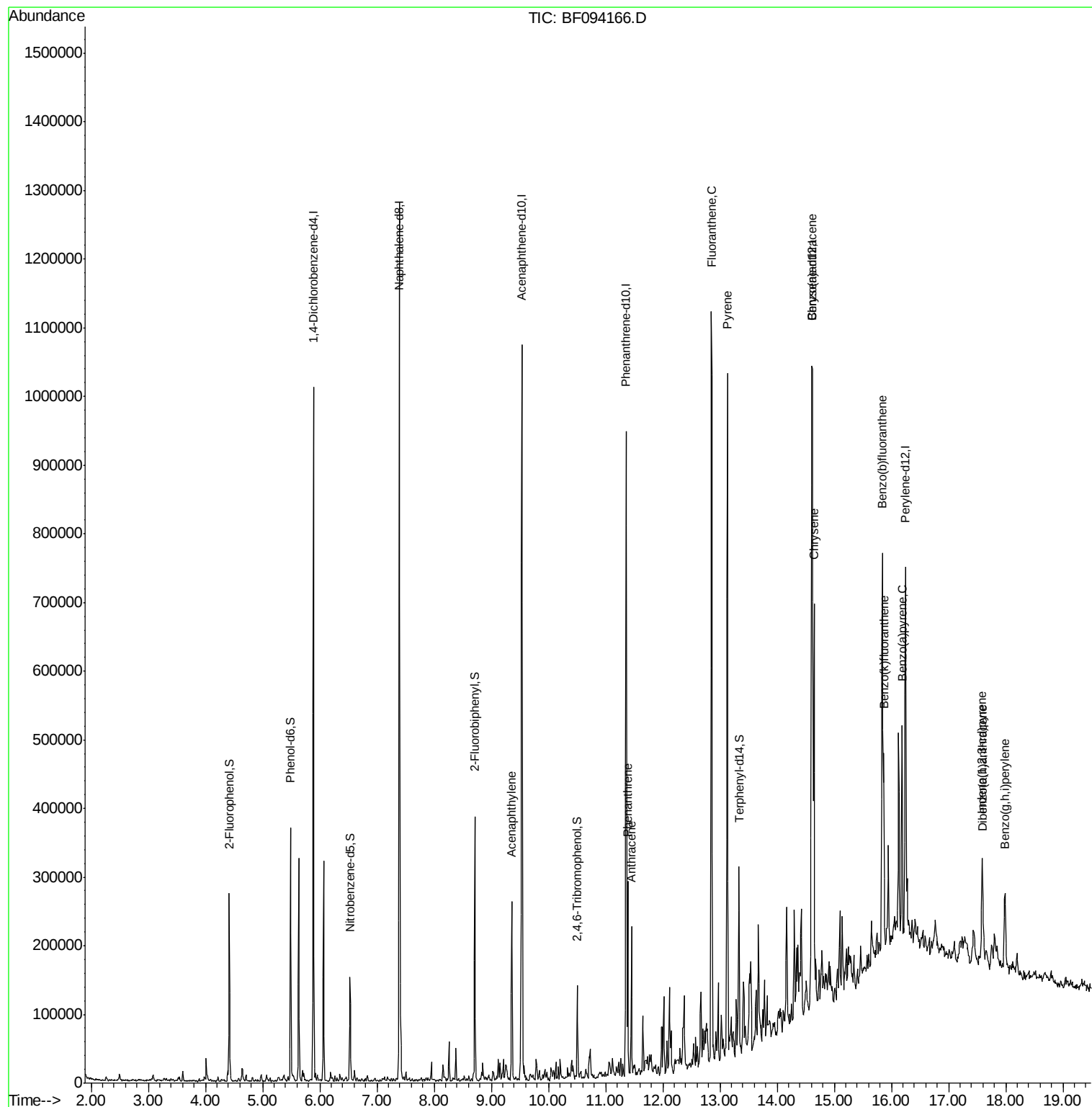
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
Data File : BF094166.D
Acq On : 4 Apr 2017 13:41
Operator : SJ/MA
Sample : I2510-09DL 10X
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
E2-M10-ESWDL

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:48 PM

Quant Time: Apr 04 14:05:19 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 31 14:38:29 2017
Response via : Initial Calibration





#1

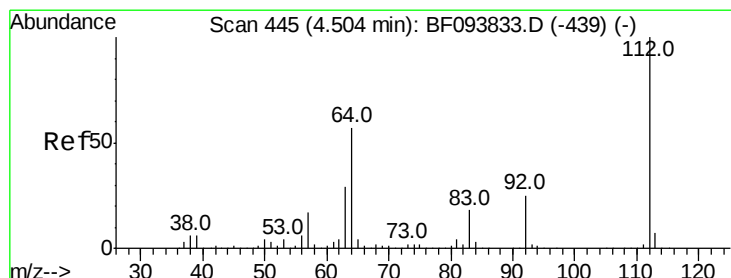
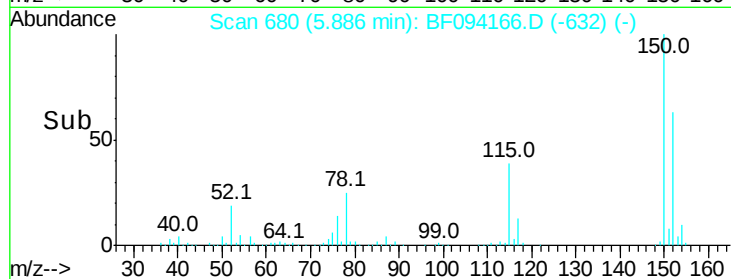
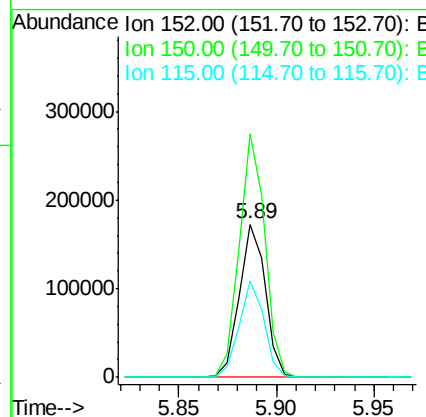
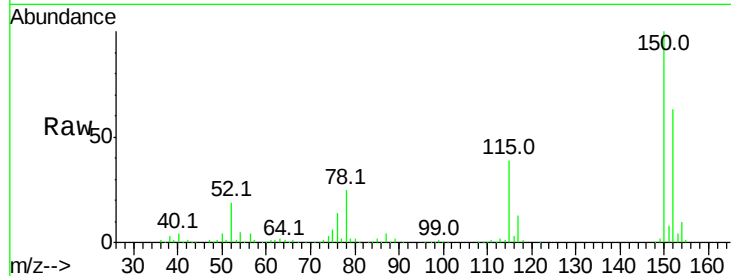
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Instrument :
BNA_F
ClientSampleId :
E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.8	126.2	189.2
115	62.6	52.2	78.2

Manual Integrations
APPROVED

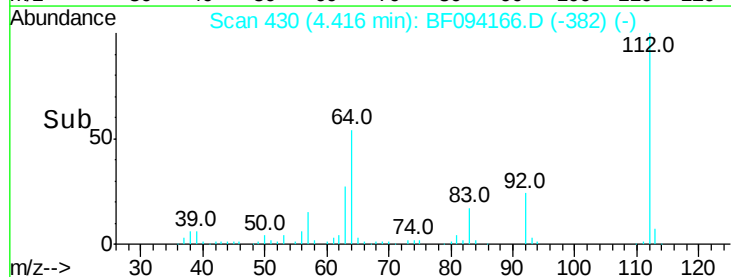
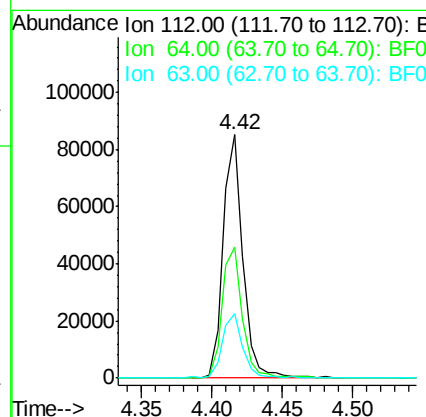
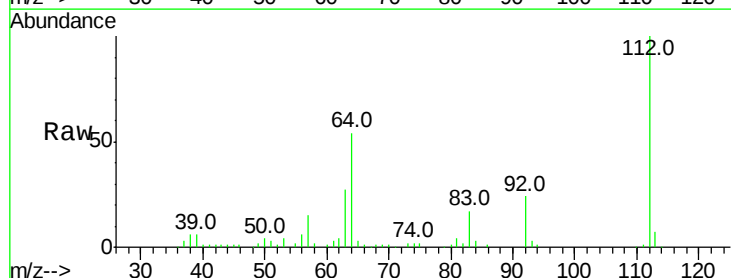
mohammad
4/4/2017 5:35:48 PM

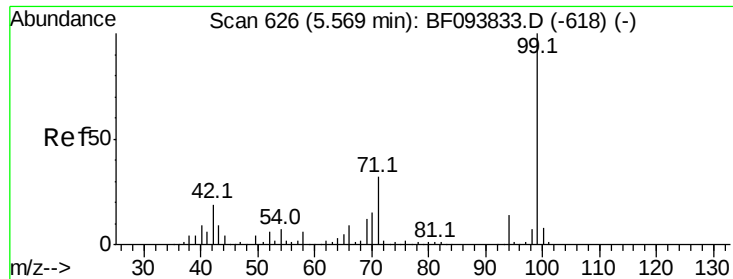


#5

2-Fluorophenol
Concen: 8.76 ng
RT: 4.42 min Scan# 430
Delta R.T. -0.02 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	46.0	69.0
63	26.6	23.4	35.0





#7

Phenol-d6

Concen: 9.21 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

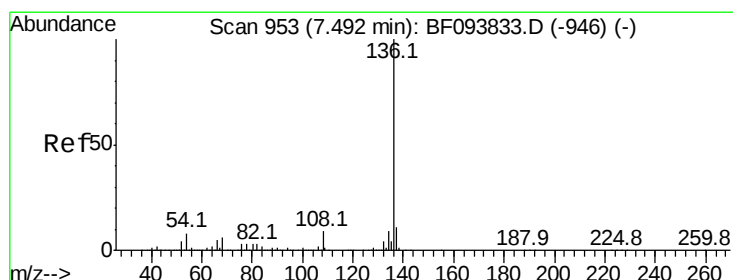
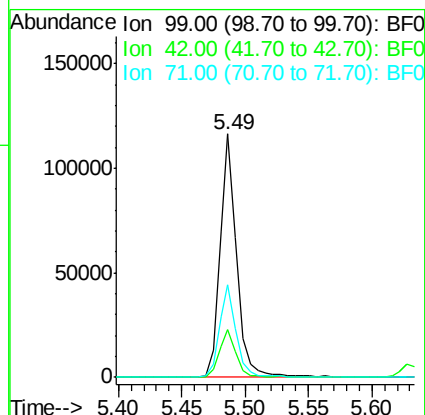
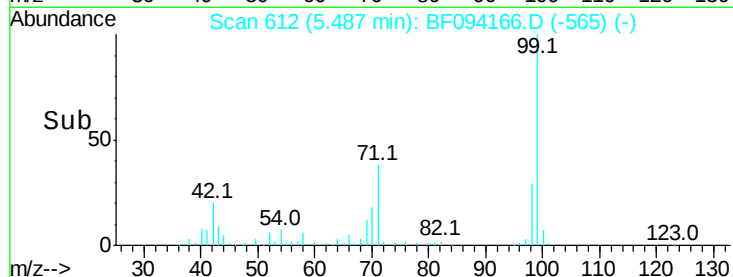
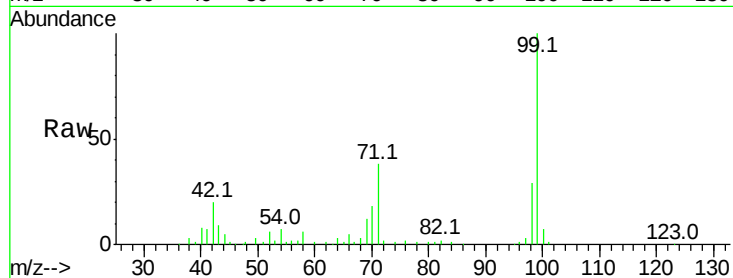
ClientSampleId :

E2-M10-ESWDL

Tot Ion:	99	Resp:	107611
Ion Ratio	Lower	Upper	
99	100		
42	19.6	13.5	20.3
71	38.0	24.5	36.7#

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:48 PM



#21

Naphthalene-d8

Concen: 20.00 ng

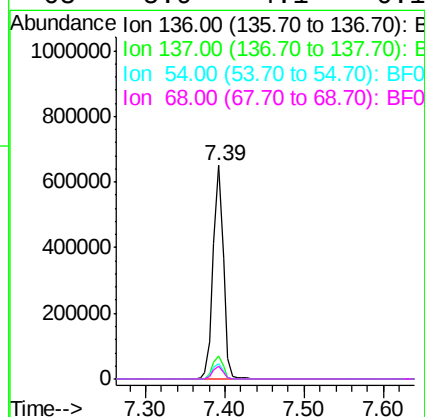
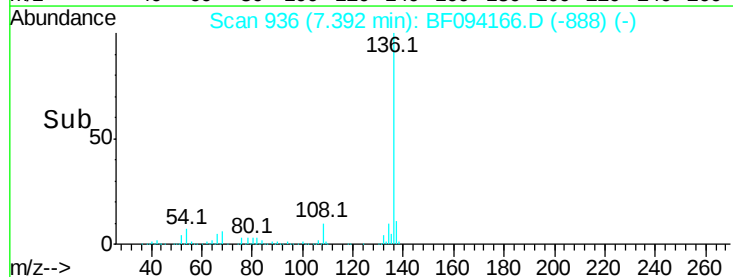
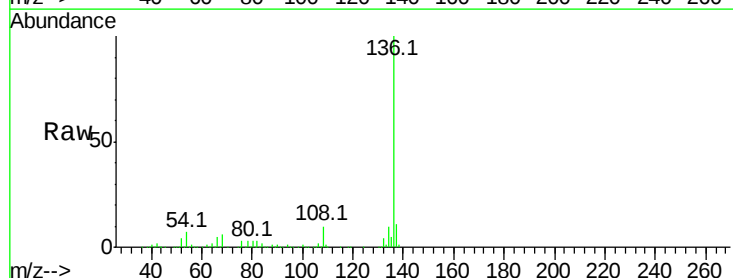
RT: 7.39 min Scan# 936

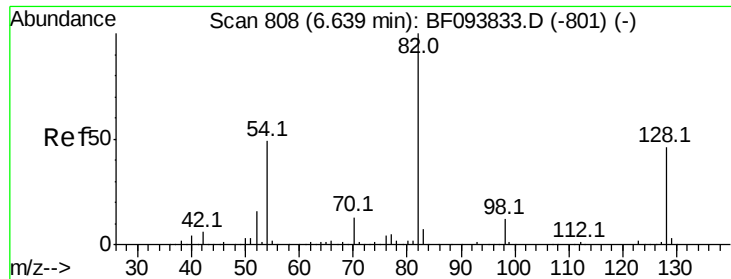
Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Tgt Ion:	136	Resp:	585959
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	7.5	4.9	7.3#
68	5.9	4.1	6.1





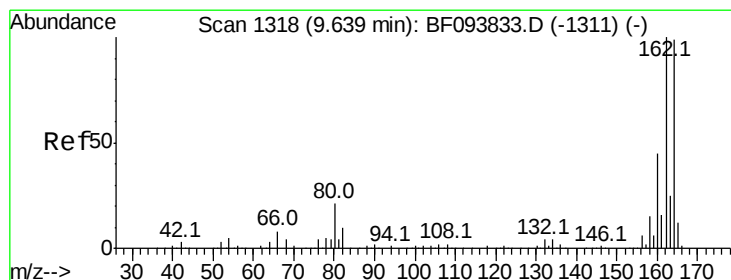
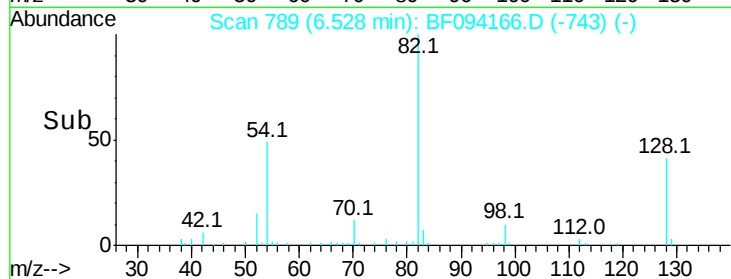
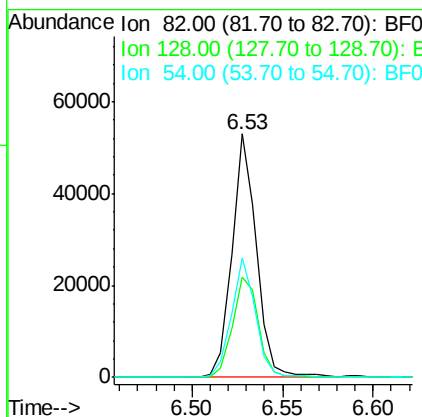
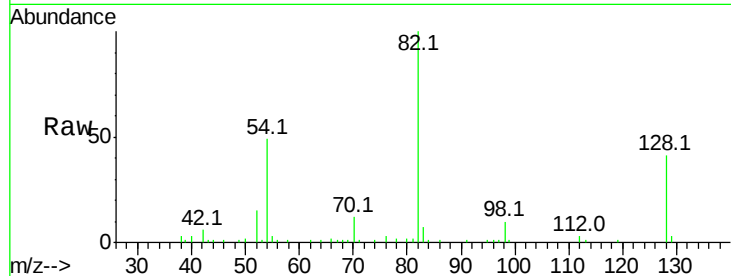
#23
 Nitrobenzene-d5
 Concen: 4.84 ng
 RT: 6.53 min Scan# 789
 Delta R.T. -0.03 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.3	34.0	51.0
54	49.2	42.2	63.2

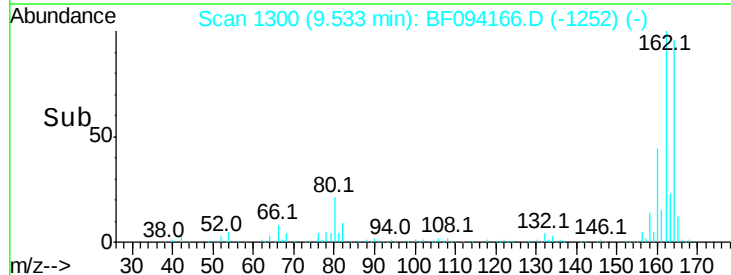
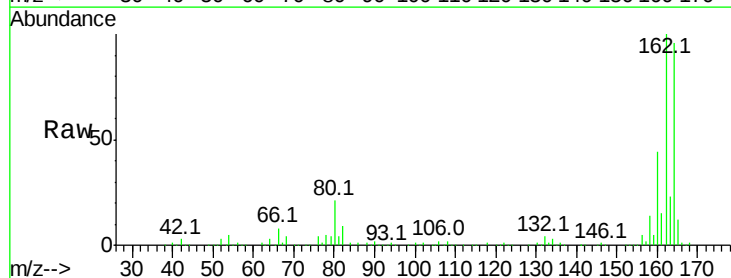
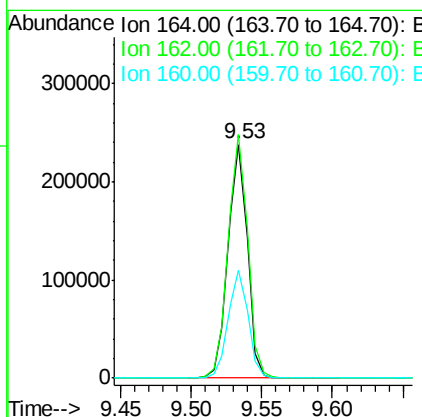
Manual Integrations
 APPROVED

mohammad
 4/4/2017 5:35:48 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.2	82.6	123.8
160	46.3	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 7.15 ng

RT: 10.50 min Scan# 1465

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

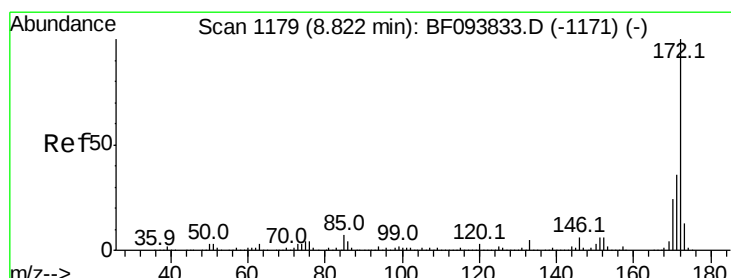
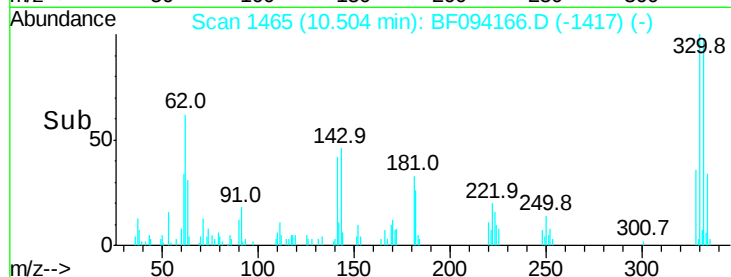
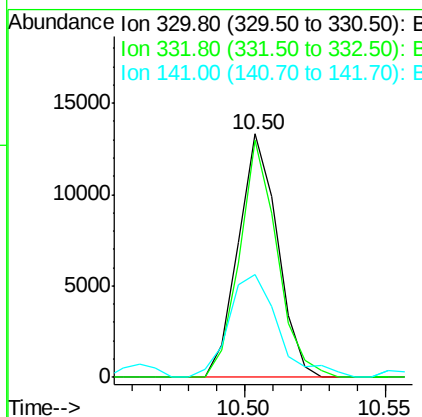
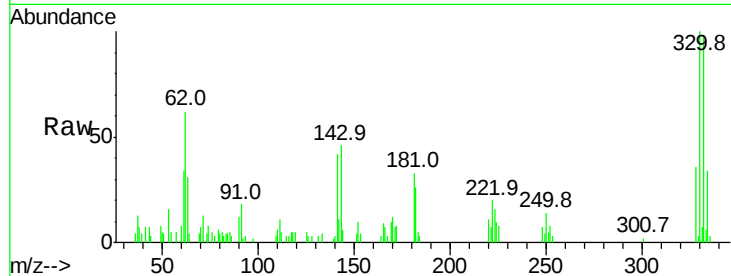
ClientSampleId :

E2-M10-ESWDL

Tot Ion:	330	Resp:	12829
Ion Ratio	Lower	Upper	
330	100		
332	93.4	76.6	115.0
141	53.7	31.4	47.2#

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:48 PM



#44

2-Fluorobiphenyl

Concen: 8.48 ng

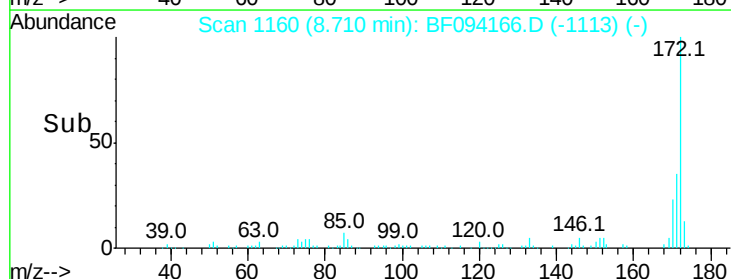
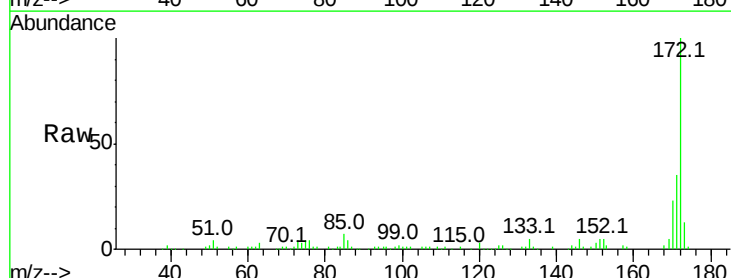
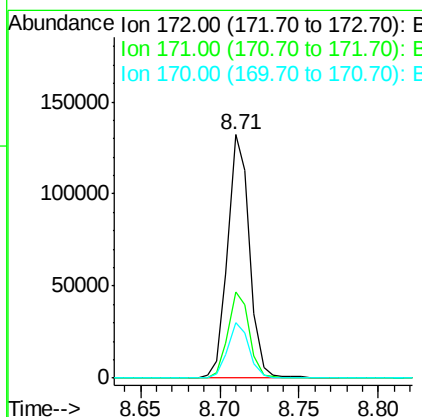
RT: 8.71 min Scan# 1160

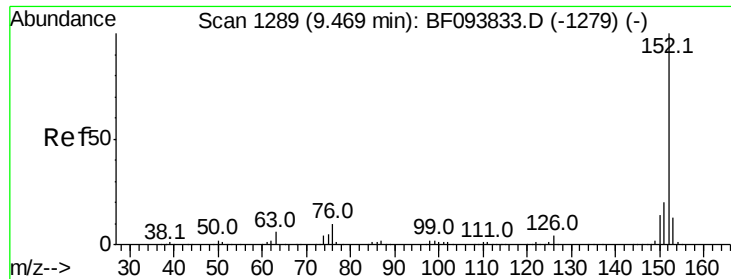
Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Tgt Ion:	172	Resp:	126321
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.6	44.4
170	22.8	19.8	29.8





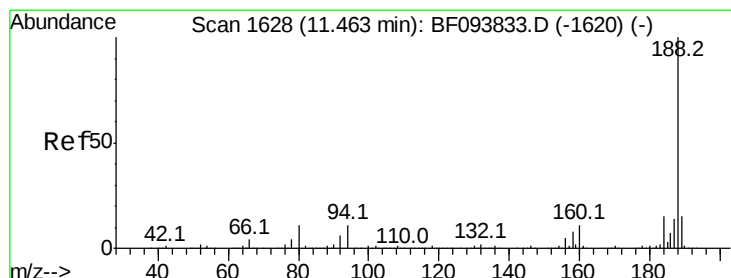
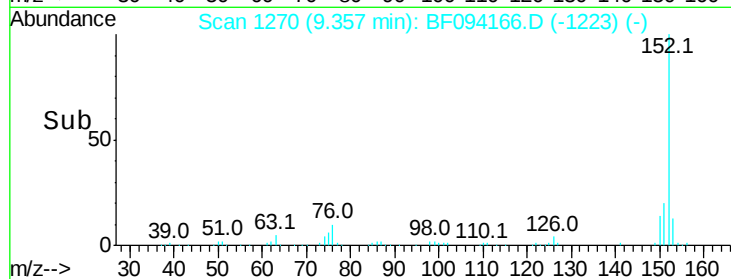
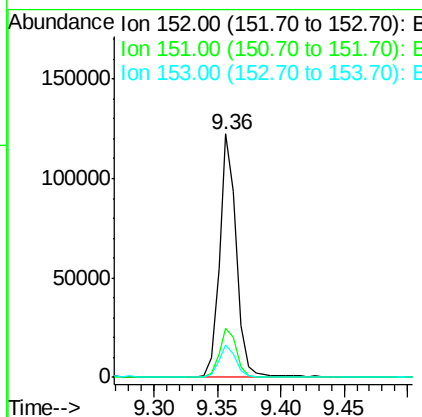
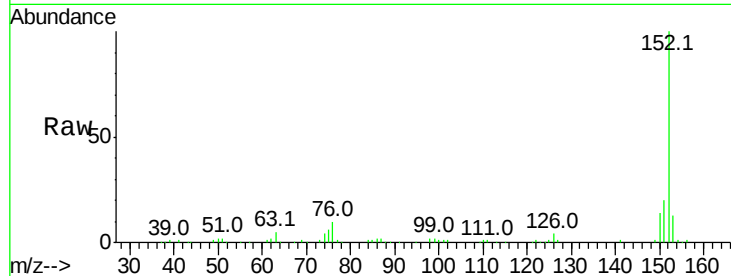
#48
Acenaphthylene
Concen: 4.80 ng
RT: 9.36 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Instrument :
BNA_F
ClientSampleId :
E2-M10-ESWDL

Tot Ion:	152	Resp:	114360
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.8	25.2
153	13.3	10.8	16.2

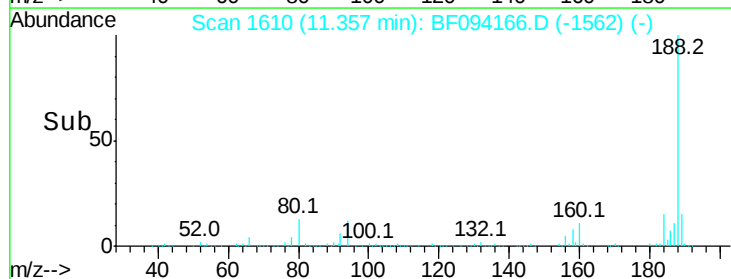
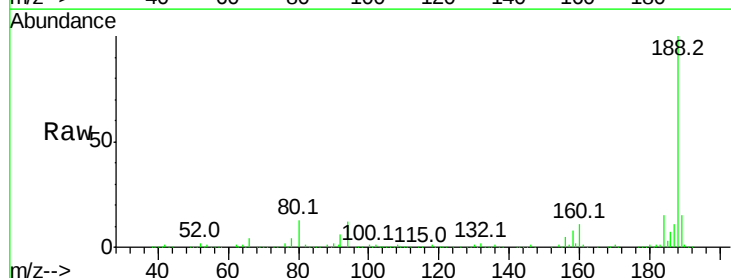
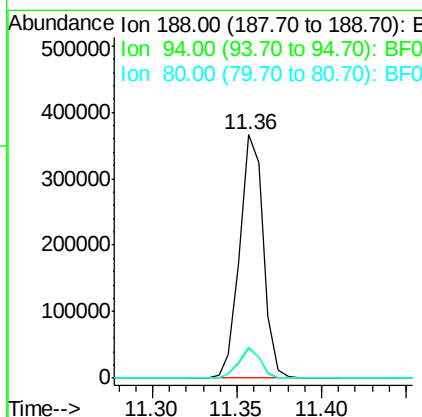
Manual Integrations
APPROVED

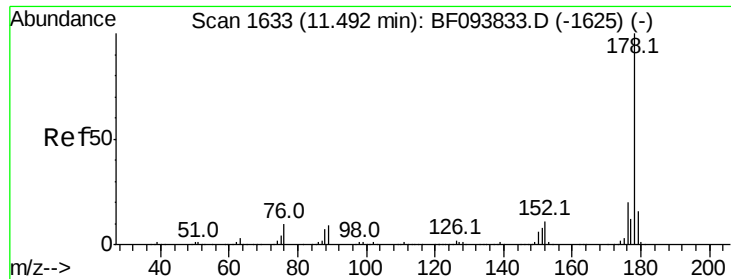
mohammad
4/4/2017 5:35:48 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 1610
Delta R.T. -0.02 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Tgt Ion:	188	Resp:	356447
Ion Ratio	Lower	Upper	
188	100		
94	12.1	9.4	14.2
80	12.8	10.2	15.2





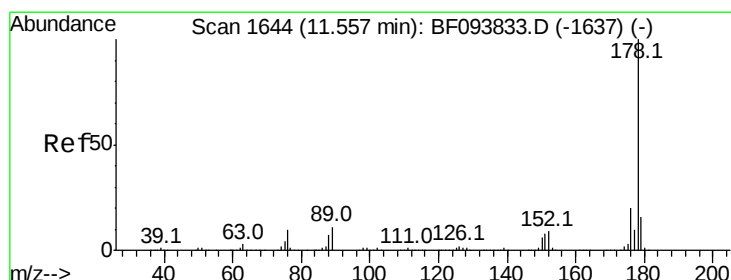
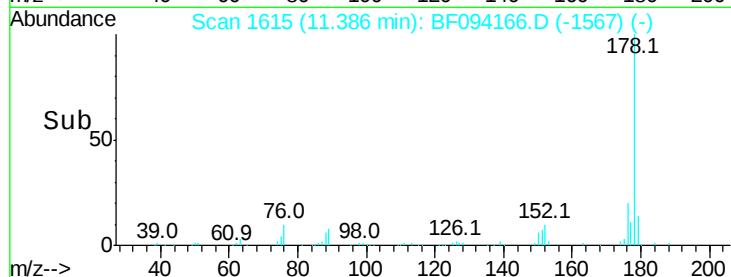
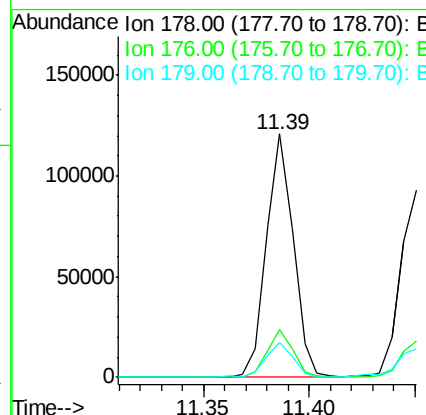
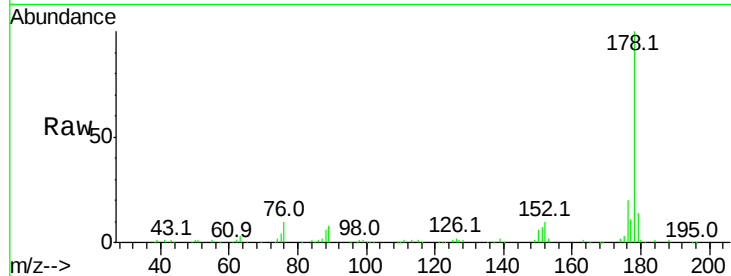
#70
Phenanthrene
Concen: 5.46 ng
RT: 11.39 min Scan# 1615
Delta R.T. -0.02 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Instrument :
BNA_F
ClientSampleId :
E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.2	24.4
179	14.5	12.6	19.0

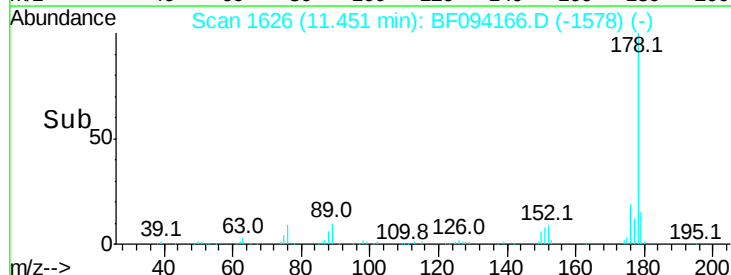
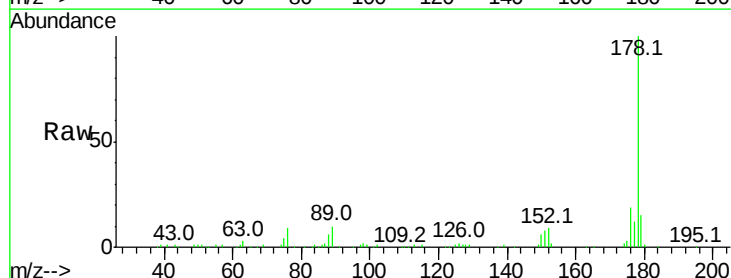
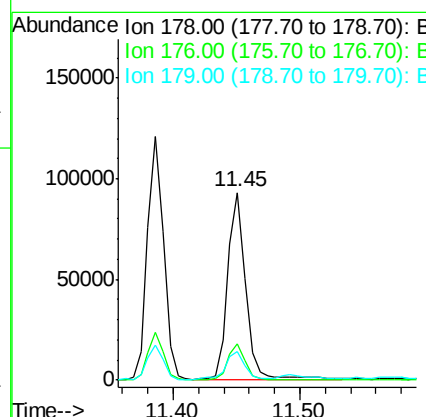
Manual Integrations
APPROVED

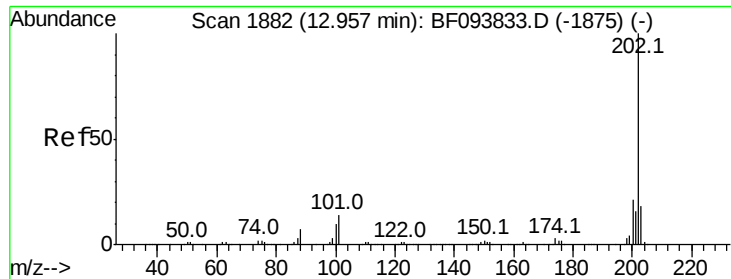
mohammad
4/4/2017 5:35:48 PM



#71
Anthracene
Concen: 4.52 ng
RT: 11.45 min Scan# 1626
Delta R.T. -0.02 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.0	12.7	19.1





#74

Fluoranthene

Concen: 23.96 ng

RT: 12.85 min Scan# 1864

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

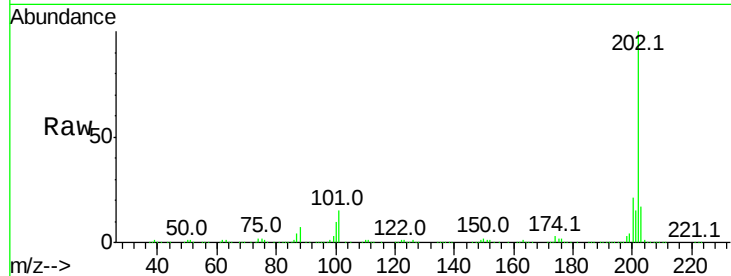
ClientSampleId :

E2-M10-ESWDL

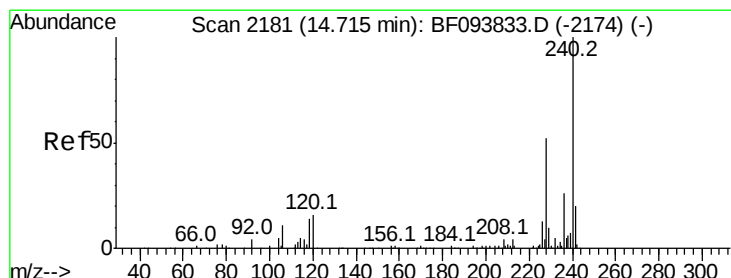
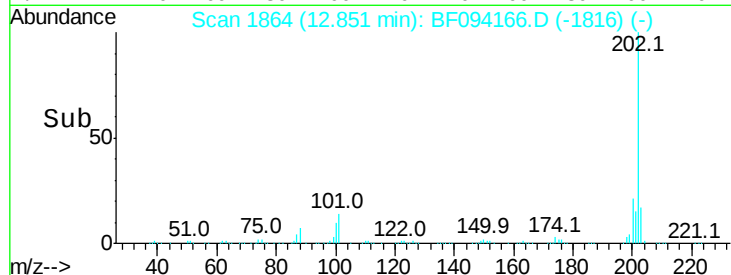
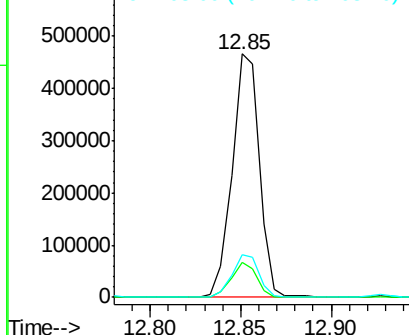
Tot Ion	Ratio	Resp	Lower	Upper
202	100	486534		
101	14.6	0.0	33.2	
203	17.3	0.0	38.1	

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:48 PM



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

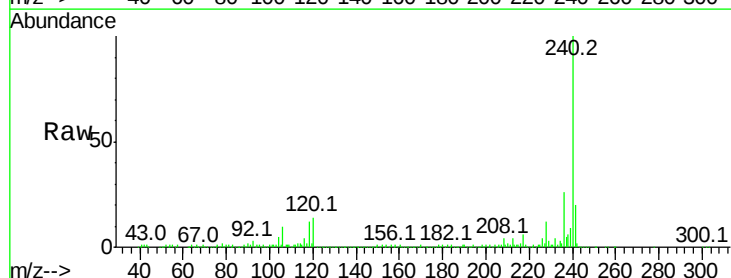
RT: 14.62 min Scan# 2164

Delta R.T. -0.01 min

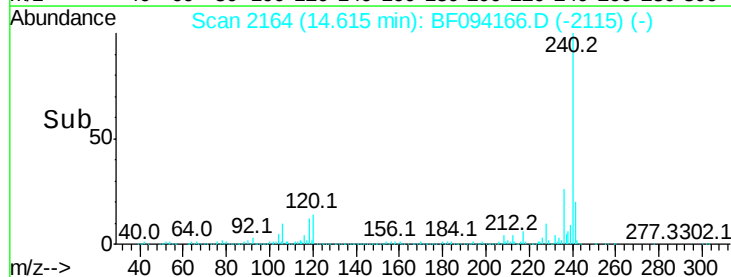
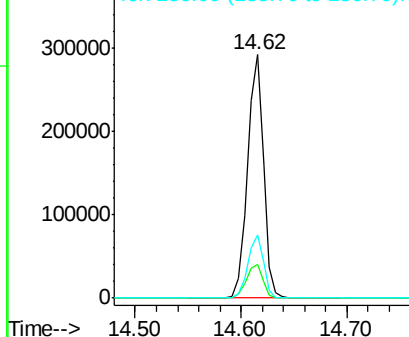
Lab File: BF094166.D

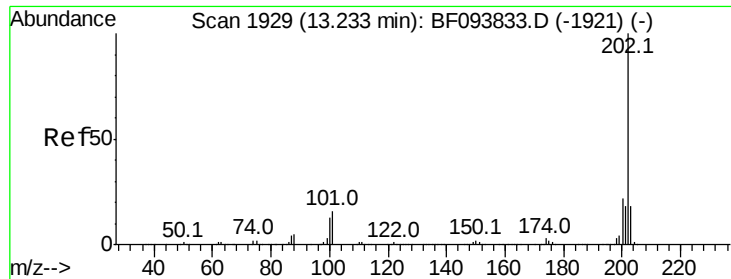
Acq: 4 Apr 2017 13:41

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	306572		
120	13.8	5.8	8.8#	
236	25.8	20.5	30.7	



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

Pvrene

Concen: 19.46 ng

RT: 13.13 min Scan# 1911

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

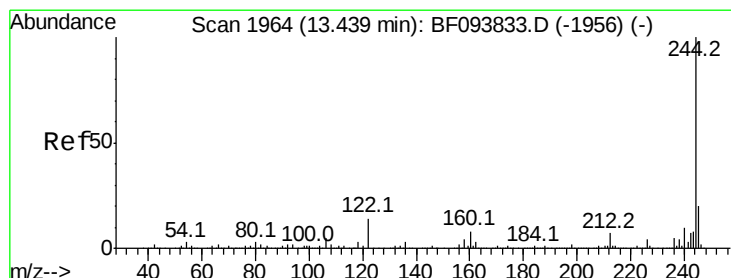
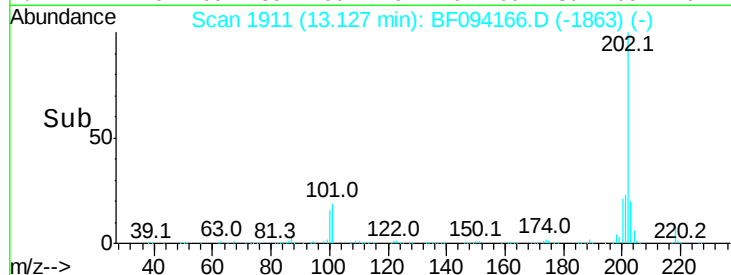
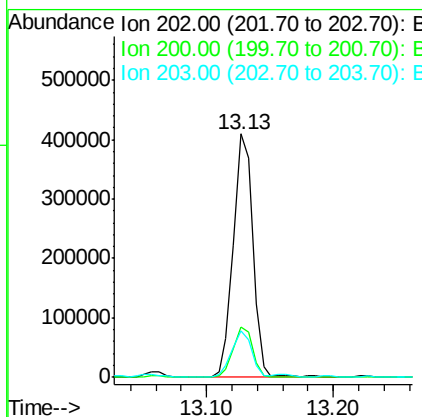
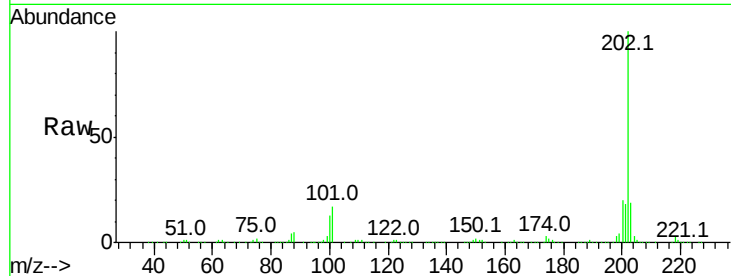
ClientSampleId :

E2-M10-ESWDL

Tot Ion:202	Resp:	433059
Ion Ratio	Lower	Upper
202 100		
200 20.5	17.6	26.4
203 19.0	14.4	21.6

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:48 PM



#78

Terphenyl-d14

Concen: 5.85 ng

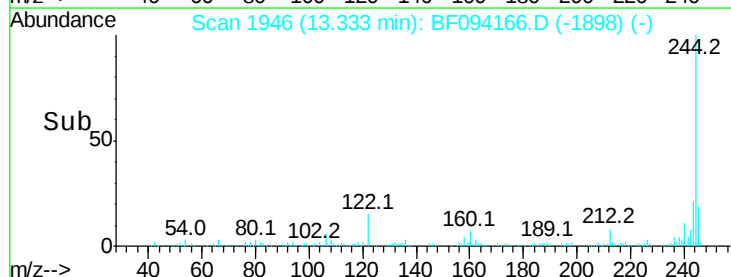
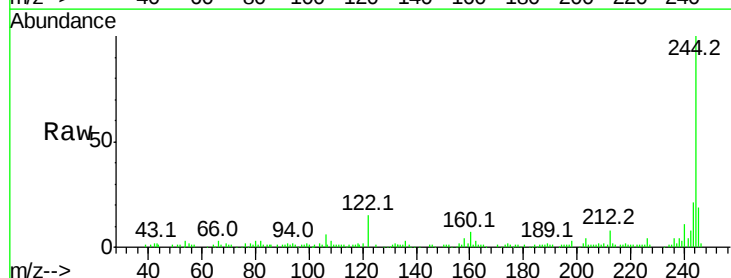
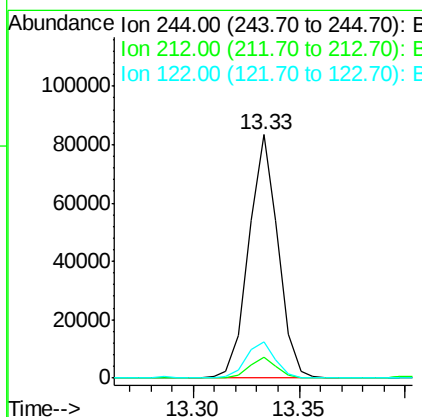
RT: 13.33 min Scan# 1946

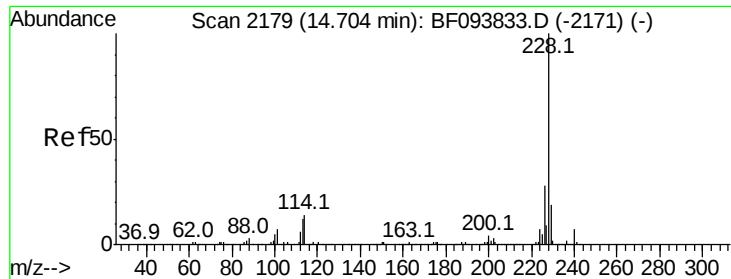
Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Tgt Ion:244	Resp:	80067
Ion Ratio	Lower	Upper
244 100		
212 8.4	6.0	9.0
122 15.0	10.3	15.5





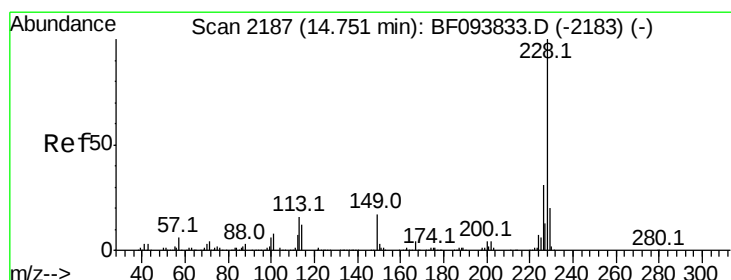
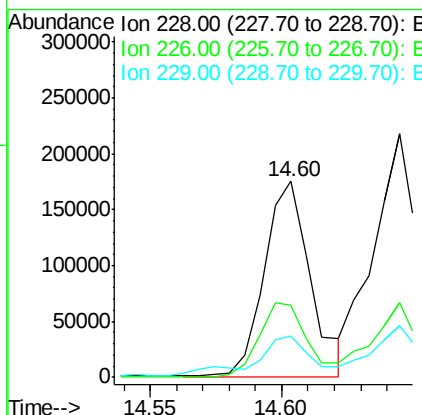
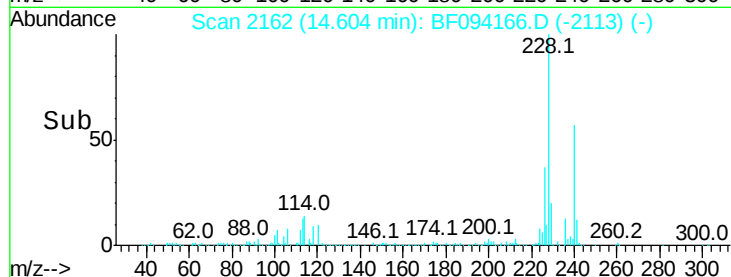
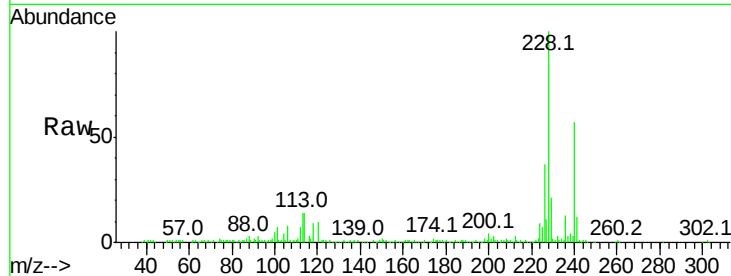
#80
Benzo(a)anthracene
Concen: 12.02 ng
RT: 14.60 min Scan# 2162
Delta R.T. -0.01 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Instrument :
BNA_F
ClientSampleId :
E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	36.9	22.6	33.8#
229	21.1	16.3	24.5

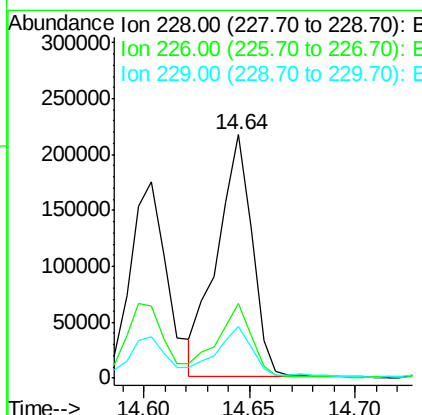
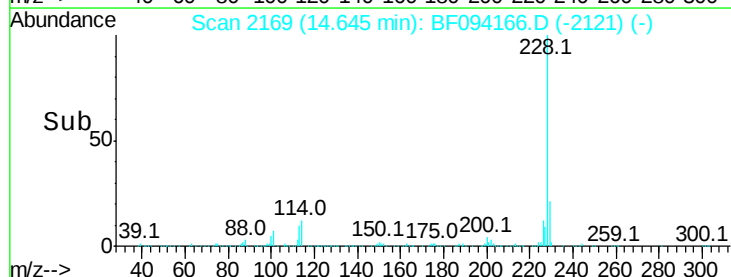
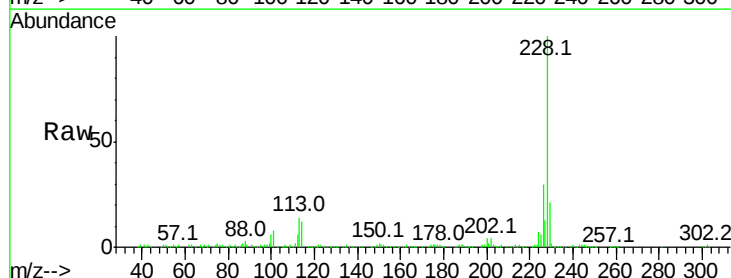
Manual Integrations
APPROVED

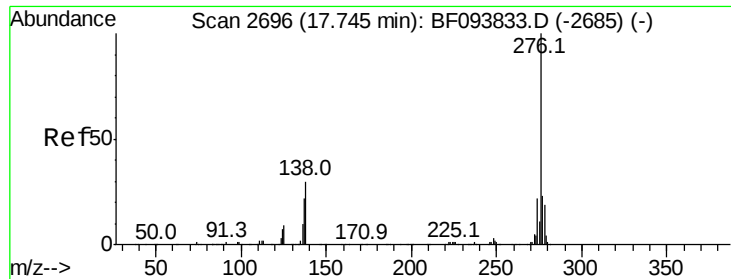
mohammad
4/4/2017 5:35:48 PM



#82
Chrysene
Concen: 14.98 ng
RT: 14.64 min Scan# 2169
Delta R.T. -0.02 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.9	37.3
229	21.2	15.8	23.6





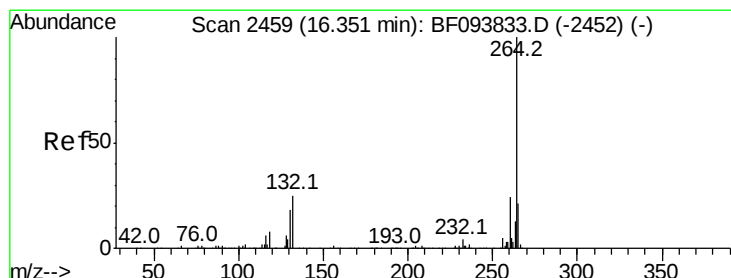
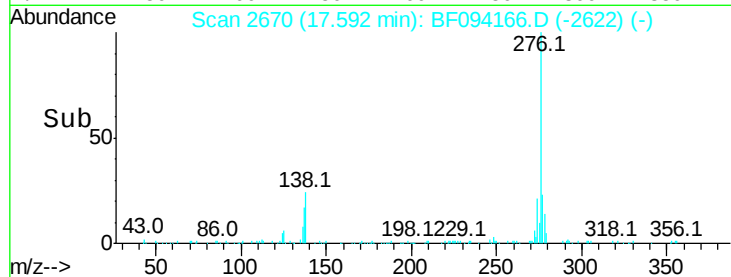
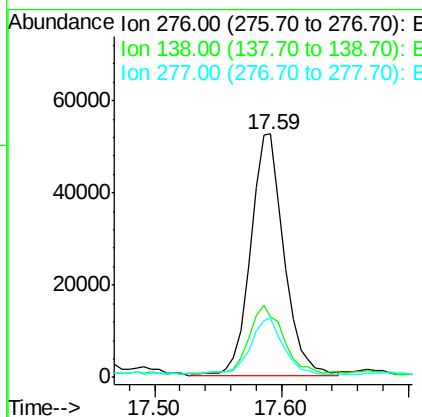
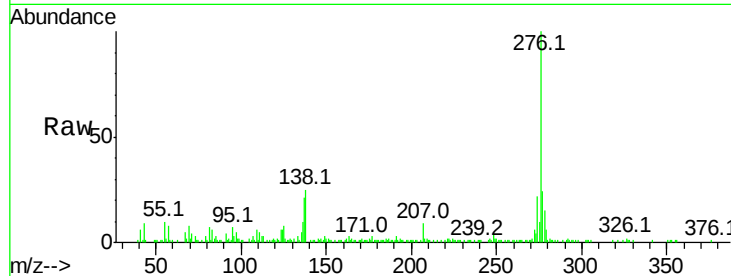
#85
Indeno(1,2,3-cd)pyrene
Concen: 6.65 ng
RT: 17.59 min Scan# 2670
Delta R.T. -0.02 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Instrument :
BNA_F
ClientSampleId :
E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.4	27.8	41.6
277	23.5	20.2	30.4

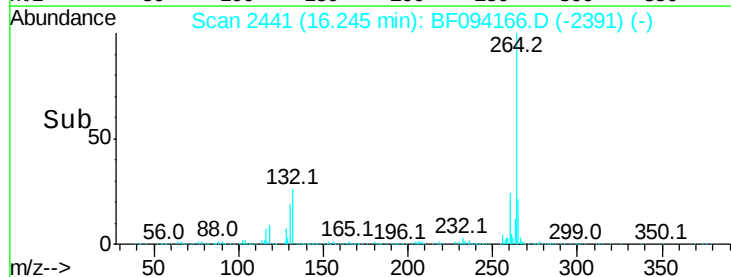
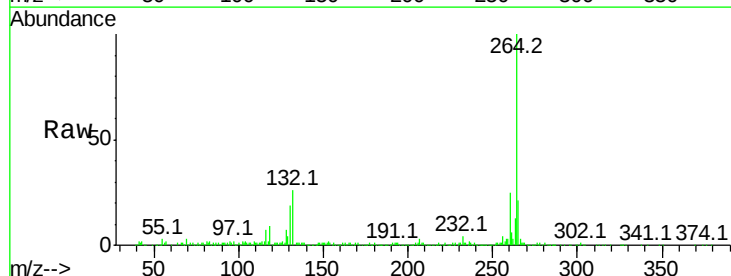
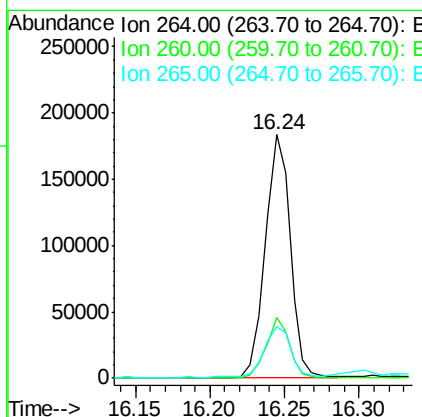
Manual Integrations
APPROVED

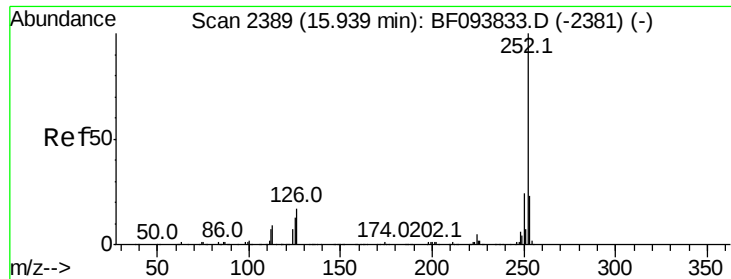
mohammad
4/4/2017 5:35:48 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 16.24 min Scan# 2441
Delta R.T. -0.01 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	21.3	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 22.47 ng m

RT: 15.84 min Scan# 2372

Delta R.T. -0.01 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

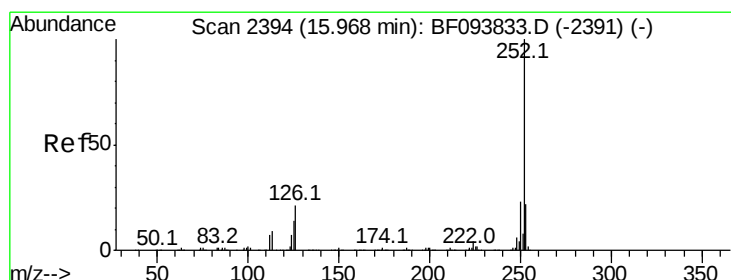
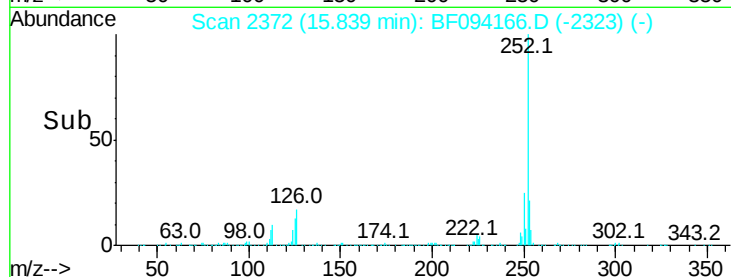
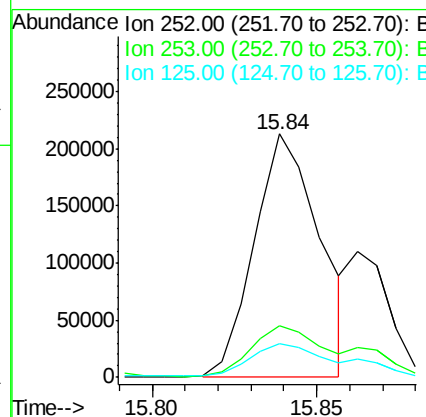
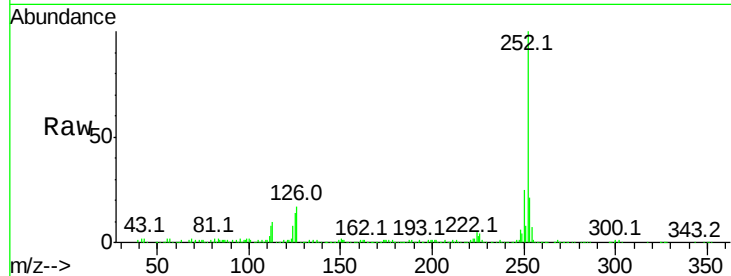
ClientSampleId :

E2-M10-ESWDL

Tot Ion:	252	Resp:	292985
Ion Ratio	Lower	Upper	
252	100		
253	21.3	18.1	27.1
125	13.8	9.8	14.8

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:48 PM



#88

Benzo(k)fluoranthene

Concen: 7.37 ng m

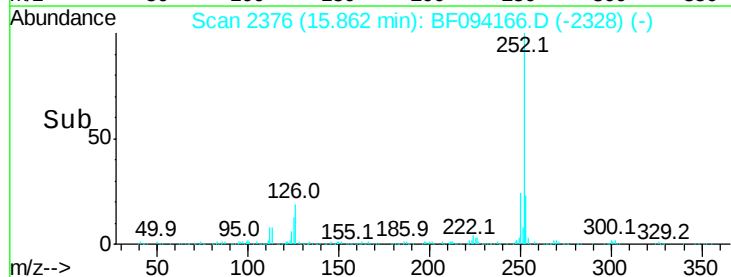
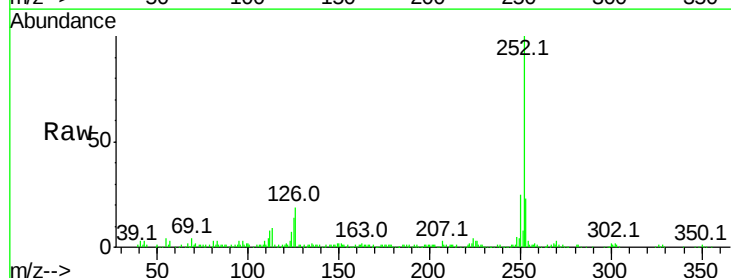
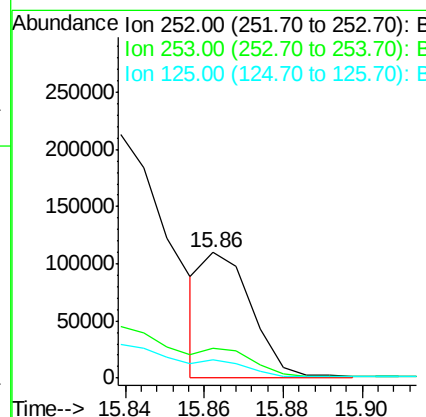
RT: 15.86 min Scan# 2376

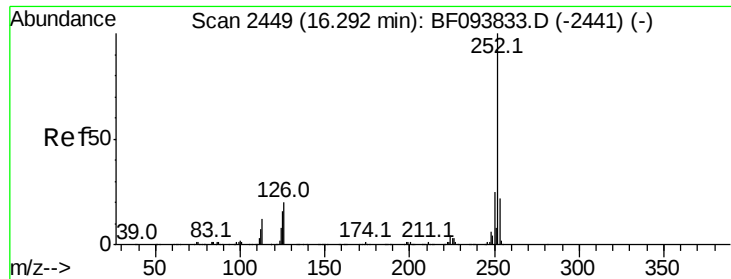
Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Tgt Ion:	252	Resp:	94079
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.4	27.6
125	14.4	13.1	19.7





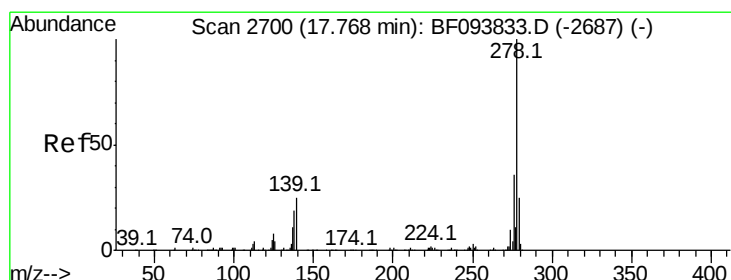
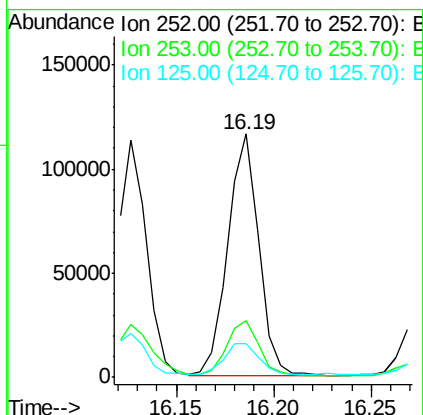
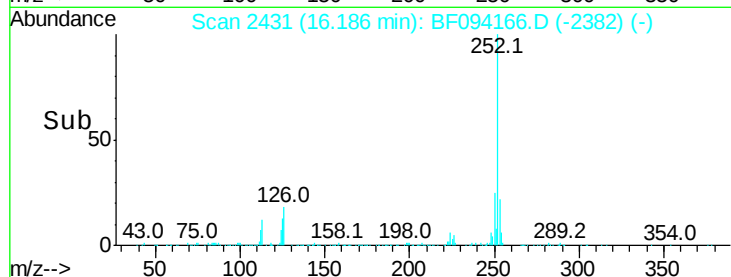
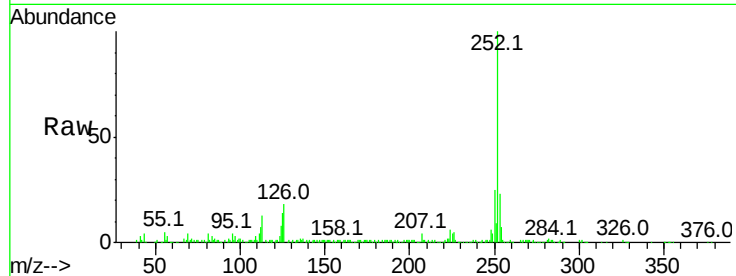
#89
Benzo(a)pyrene
Concen: 10.62 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Instrument :
BNA_F
ClientSampleId :
E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	13.9	11.0	16.4

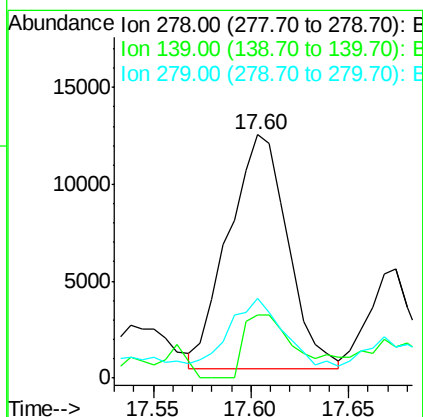
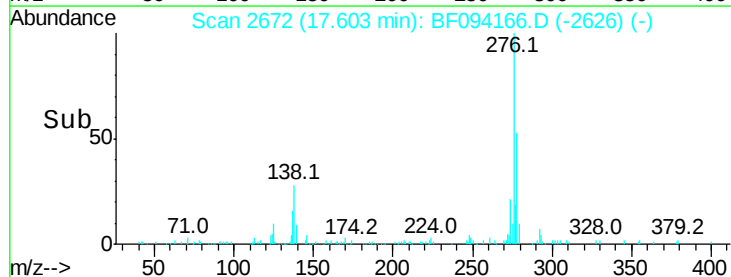
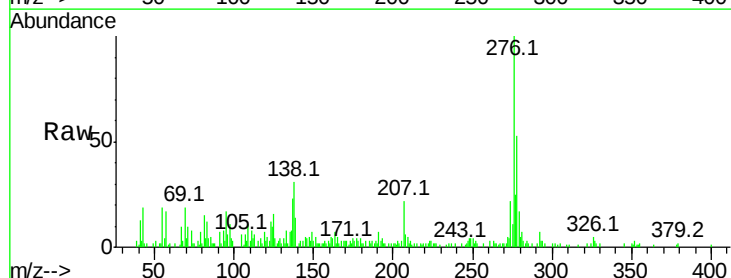
Manual Integrations
APPROVED

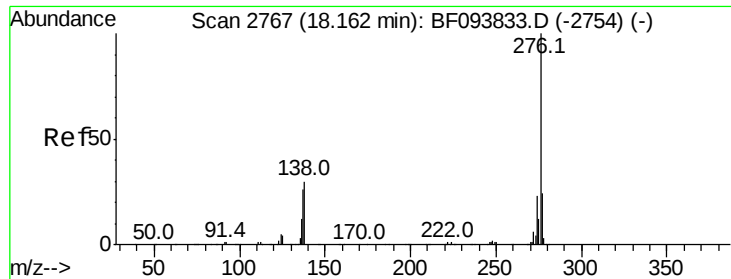
mohammad
4/4/2017 5:35:48 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.50 ng
RT: 17.60 min Scan# 2672
Delta R.T. -0.03 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.7	16.6	24.8#
279	32.5	19.3	28.9#





#91
 Benzo(a,h,i)perylene
 Concen: 7.74 ng
 RT: 17.99 min Scan# 2737
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.8	18.6	28.0
138	31.6	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 4/4/2017 5:35:48 PM

