

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041317\
 Data File : BF094418.D
 Acq On : 14 Apr 2017 4:58
 Operator : SJ/MA
 Sample : I2672-20 20X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-Z9-ESW

Manual Integrations
 APPROVED

mohammad
 4/14/2017 1:36:31 PM

Quant Time: Apr 14 07:59:14 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 14 01:21:26 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.79	152	20814	20.00	ng	-0.04
21) Naphthalene-d8	7.29	136	81035	20.00	ng	-0.05
38) Acenaphthene-d10	9.43	164	35375	20.00	ng	-0.05
63) Phenanthrene-d10	11.25	188	52906	20.00	ng	-0.05
75) Chrysene-d12	14.49	240	44667	20.00	ng	-0.06
86) Perylene-d12	16.12	264	34491	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	8144	6.61	ng	-0.04
7) Phenol-d6	5.42	99	10171	6.67	ng	-0.05
23) Nitrobenzene-d5	0.00	82	0d	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ng	
44) 2-Fluorobiphenyl	8.61	172	14326	6.18	ng	-0.05
78) Terphenyl-d14	13.22	244	9700	4.87	ng	-0.06
Target Compounds						Qvalue
31) Naphthalene	7.32	128	596102	152.99	ng	99
37) 2-Methylnaphthalene	8.16	142	718030	276.44	ng	98
45) 1,1'-Biphenyl	8.73	154	152369	53.40	ng	98
48) Acenaphthylene	9.26	152	21214	5.71	ng	# 12
51) Acenaphthene	9.47	154	351987	162.51	ng	99
54) Dibenzofuran	9.68	168	369248	125.23	ng	97
57) Fluorene	10.10	166	368446	150.68	ng	98
70) Phenanthrene	11.28	178	1188813	403.94	ng	99
71) Anthracene	11.34	178	151448m	49.98	ng	
74) Fluoranthene	12.74	202	569926	189.12	ng	99
77) Pyrene	13.02	202	409541	126.34	ng	99
80) Benzo(a)anthracene	14.48	228	102334	39.29	ng	99
82) Chrysene	14.52	228	81010m	33.52	ng	
85) Indeno(1,2,3-cd)pyrene	17.40	276	9179	4.38	ng	# 73
87) Benzo(b)fluoranthene	15.72	252	43014m	20.35	ng	
88) Benzo(k)fluoranthene	15.74	252	16267m	7.86	ng	
89) Benzo(a)pyrene	16.06	252	27961	14.36	ng	# 88
91) Benzo(g,h,i)perylene	17.78	276	6361	3.83	ng	90

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

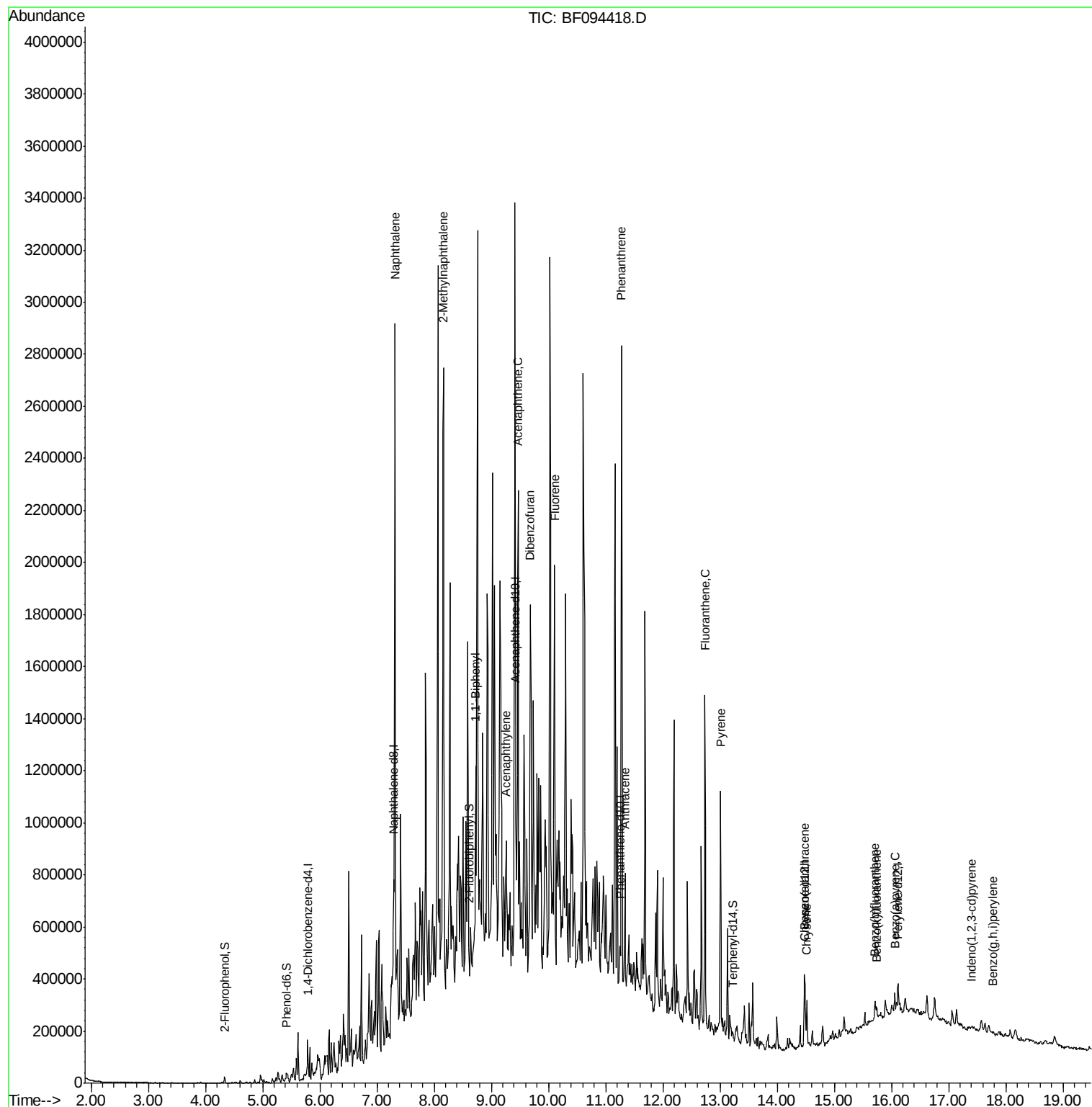
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041317\
Data File : BF094418.D
Acq On : 14 Apr 2017 4:58
Operator : SJ/MA
Sample : I2672-20 20X
Misc :
ALS Vial : 29 Sample Multiplier: 1

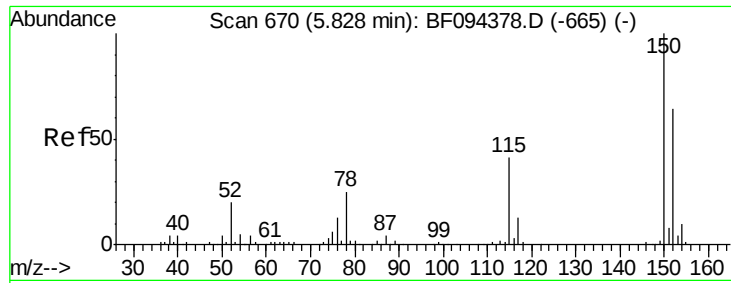
Instrument :
BNA_F
ClientSampleId :
E2-Z9-ESW

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:31 PM

Quant Time: Apr 14 07:59:14 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 14 01:21:26 2017
Response via : Initial Calibration





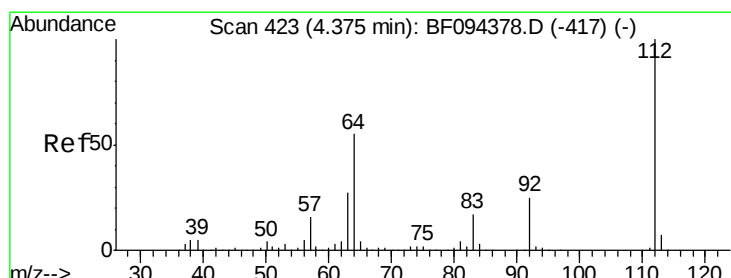
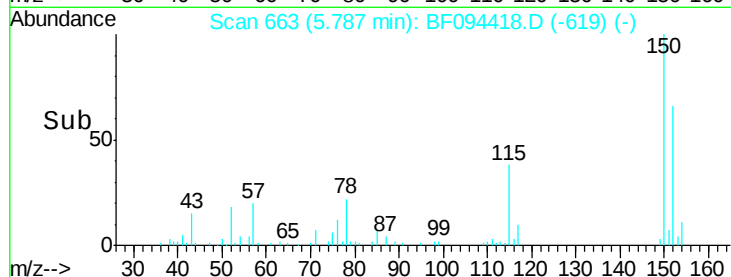
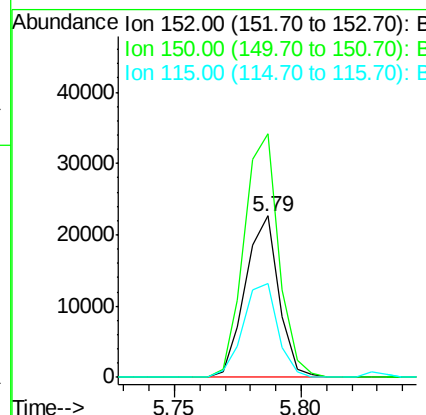
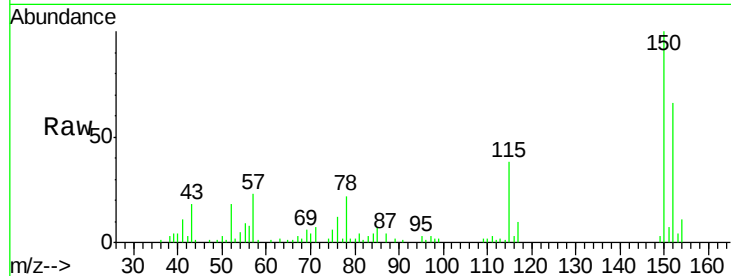
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.79 min Scan# 663
 Delta R.T. -0.04 min
 Lab File: BF094418.D
 Acq: 14 Apr 2017 4:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-Z9-ESW

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.1	126.2	189.2
115	58.1	52.2	78.2

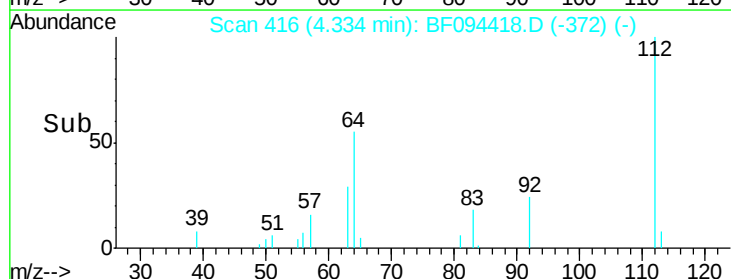
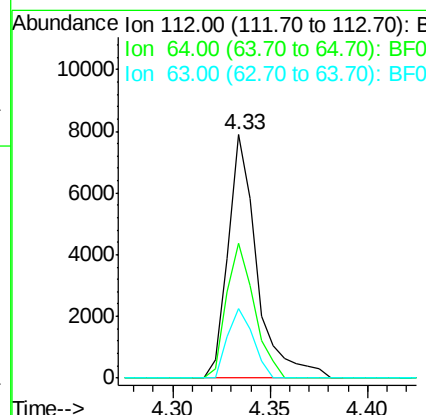
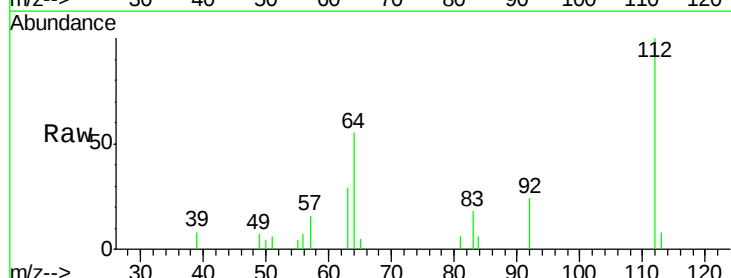
Manual Integrations
 APPROVED

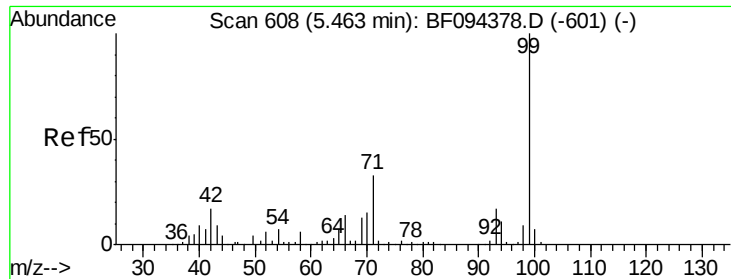
mohammad
 4/14/2017 1:36:31 PM



#5
 2-Fluorophenol
 Concen: 6.61 ng
 RT: 4.33 min Scan# 416
 Delta R.T. -0.04 min
 Lab File: BF094418.D
 Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.2	46.0	69.0
63	28.7	23.4	35.0





#7

Phenol-d6

Concen: 6.67 ng

RT: 5.42 min Scan# 600

Delta R.T. -0.05 min

Lab File: BF094418.D

Acq: 14 Apr 2017 4:58

Instrument :

BNA_F

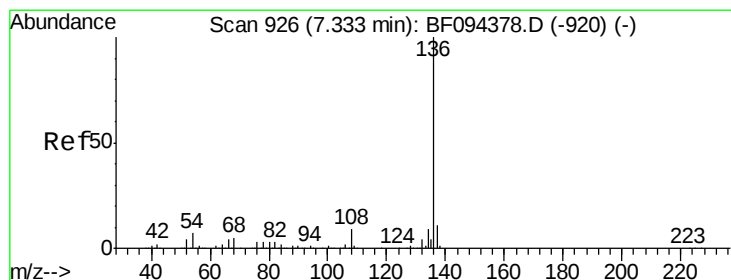
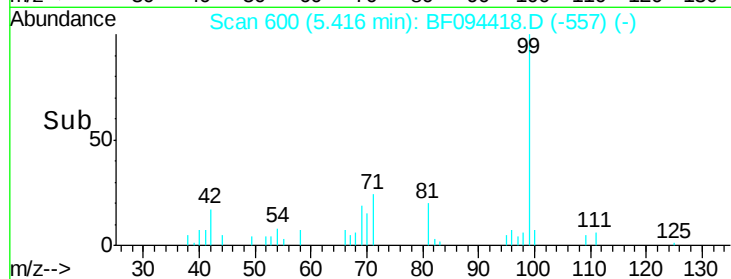
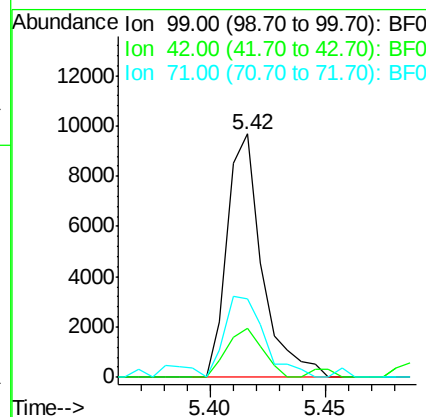
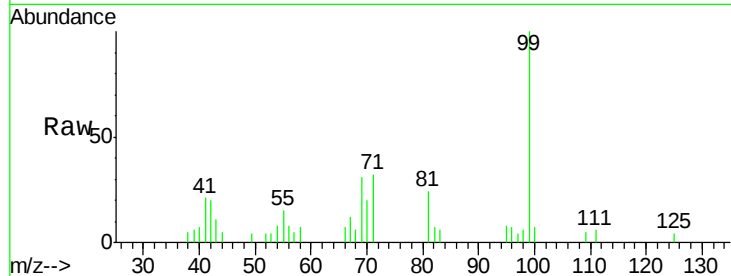
ClientSampleId :

E2-Z9-ESW

Tot Ion:	99	Resp:	10171
Ion Ratio	Lower	Upper	
99	100		
42	20.3	13.5	20.3#
71	32.0	24.5	36.7

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:31 PM



#21

Naphthalene-d8

Concen: 20.00 ng

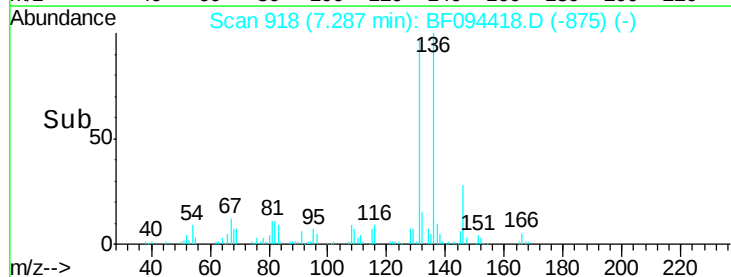
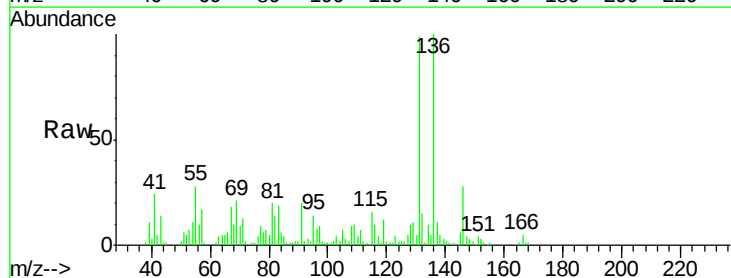
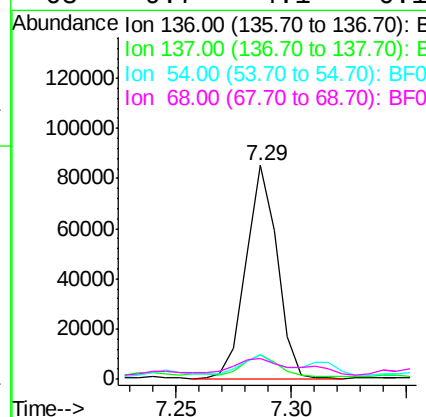
RT: 7.29 min Scan# 918

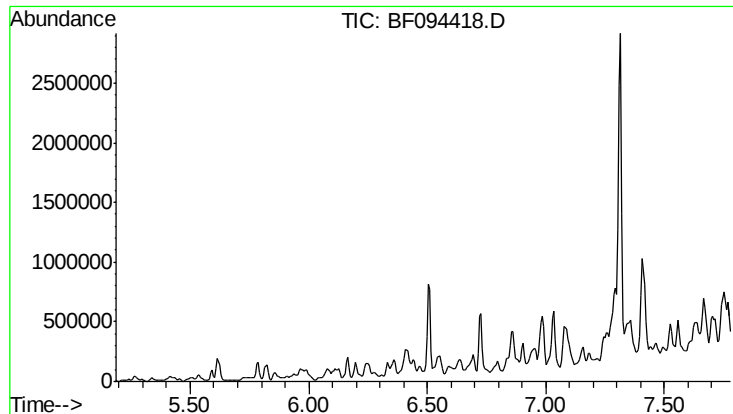
Delta R.T. -0.05 min

Lab File: BF094418.D

Acq: 14 Apr 2017 4:58

Tgt Ion:	136	Resp:	81035
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	11.1	4.9	7.3#
68	9.7	4.1	6.1#





#23
Nitrobenzene-d5
Concen: 0.00 ng
Expected RT: 6.49 min

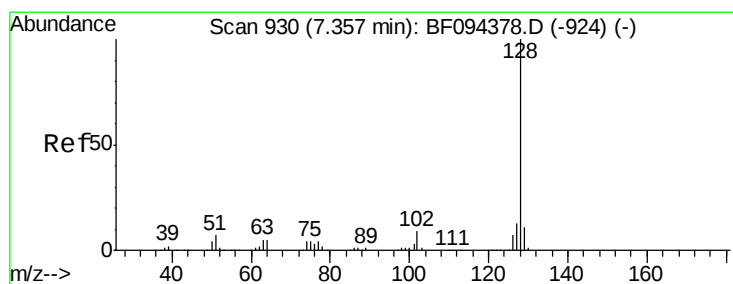
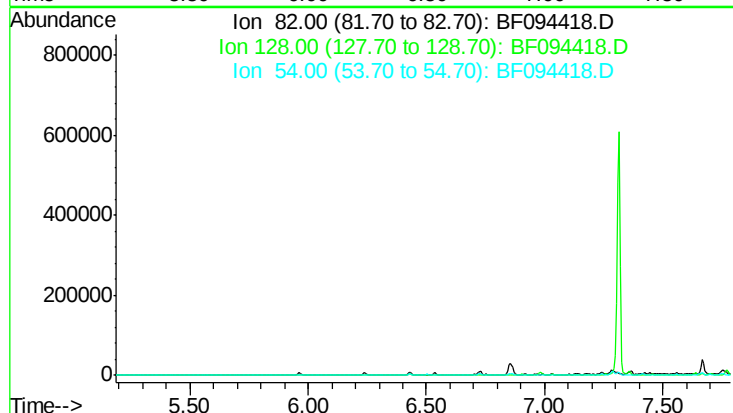
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-Z9-ESW

Manual Integrations
APPROVED

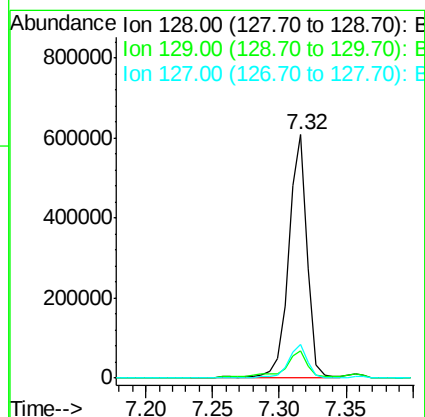
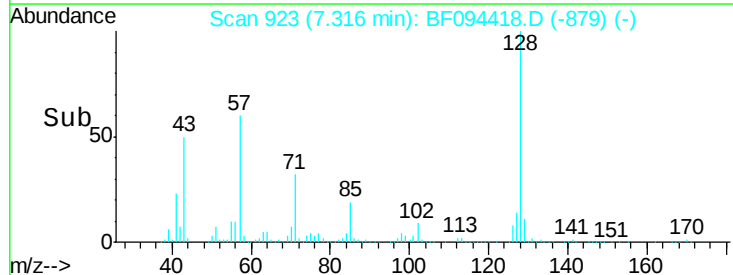
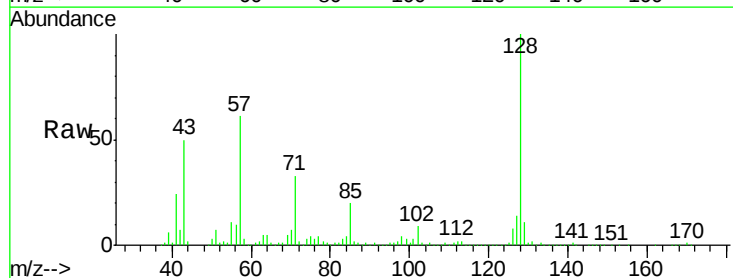
mohammad
4/14/2017 1:36:31 PM

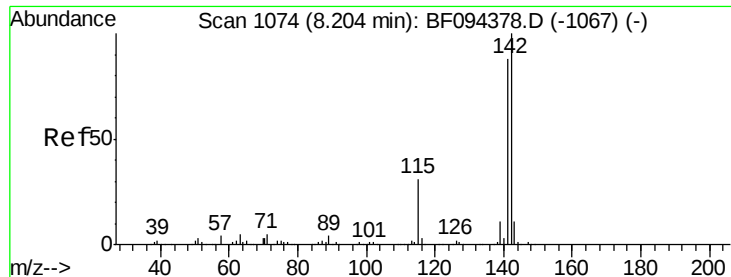
Tot Ion	82
Sig	Exp Ratio
82	100
128	42.5
54	52.7



#31
Naphthalene
Concen: 152.99 ng
RT: 7.32 min Scan# 923
Delta R.T. -0.04 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Tgt Ion	128	Resp	596102
Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.8	10.8	16.2





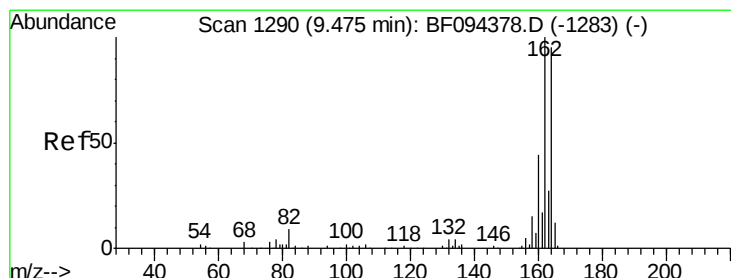
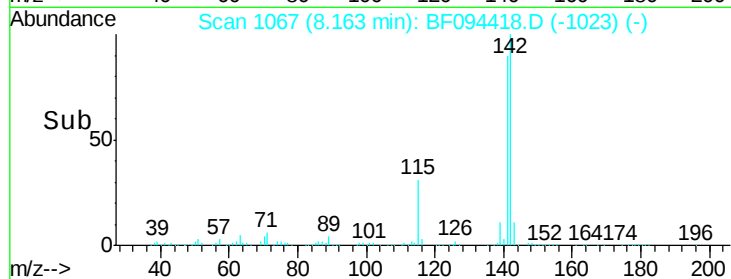
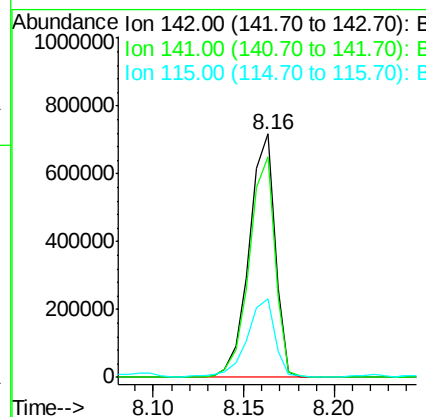
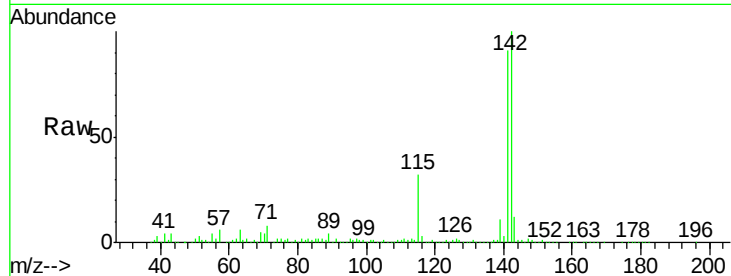
#37
2-Methylnaphthalene
Concen: 276.44 ng
RT: 8.16 min Scan# 1067
Delta R.T. -0.04 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-Z9-ESW

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.6	71.3	106.9
115	32.0	27.1	40.7

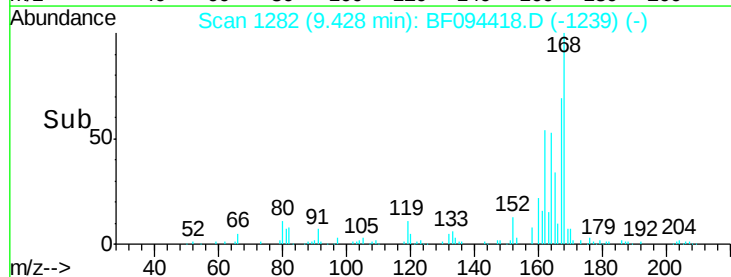
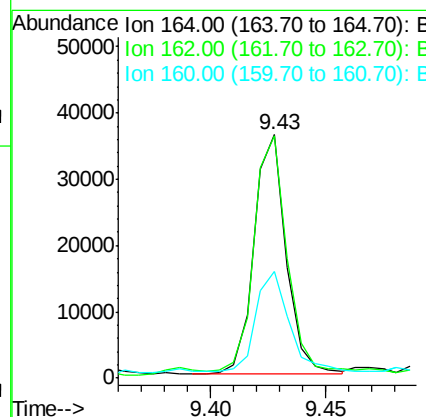
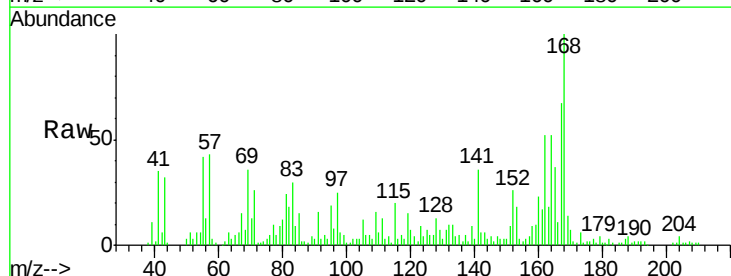
Manual Integrations
APPROVED

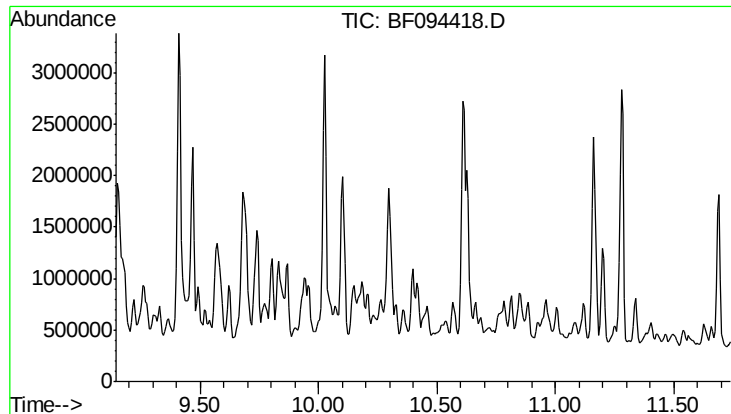
mohammad
4/14/2017 1:36:31 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.43 min Scan# 1282
Delta R.T. -0.05 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.4	82.6	123.8
160	43.7	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 0.00 ng

Expected RT: 10.45 min

Lab File: BF094418.D

Acq: 14 Apr 2017 4:58

Tot Ion: 330

Sig Exp Ratio

330 100

332 95.8

141 39.3

Instrument :

BNA_F

ClientSampleId :

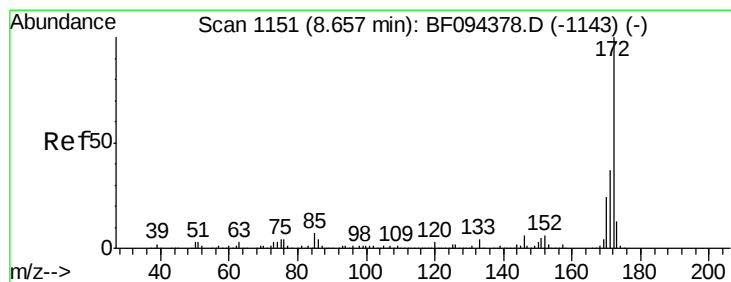
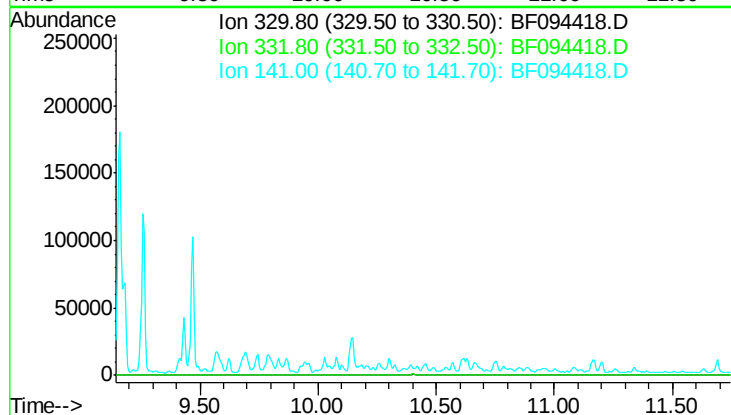
E2-Z9-ESW

Manual Integrations

APPROVED

mohammad

4/14/2017 1:36:31 PM



#44

2-Fluorobiphenyl

Concen: 6.18 ng

RT: 8.61 min Scan# 1143

Delta R.T. -0.05 min

Lab File: BF094418.D

Acq: 14 Apr 2017 4:58

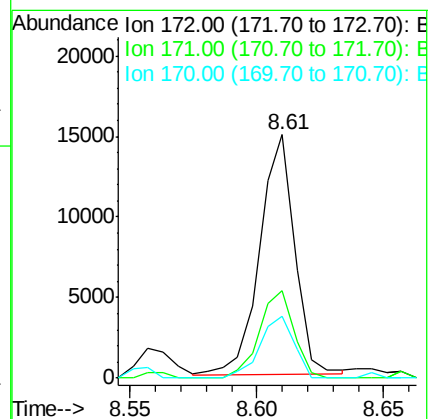
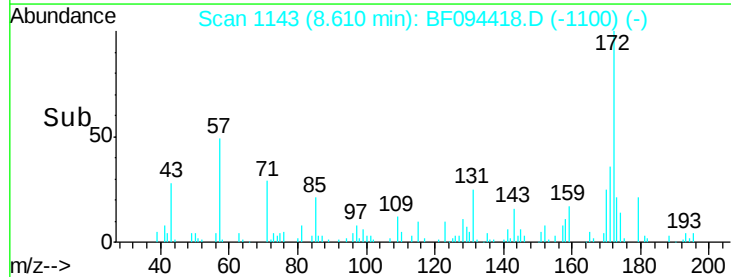
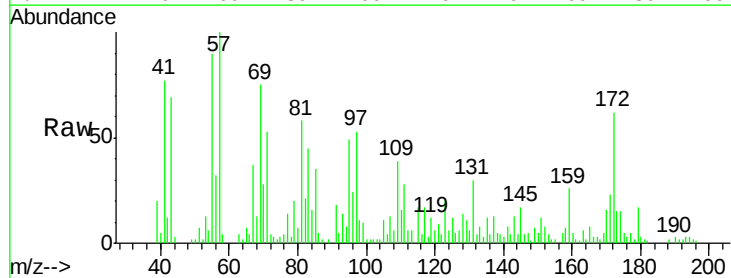
Tgt Ion:172 Resp: 14326

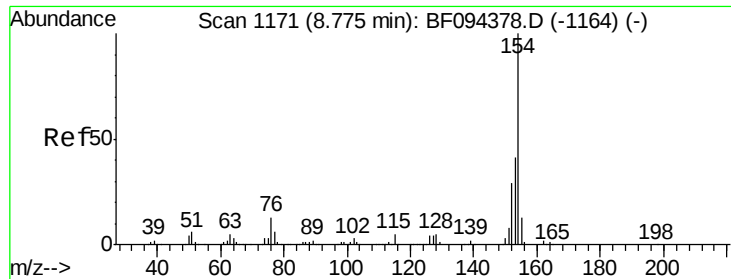
Ion Ratio Lower Upper

172 100

171 36.1 29.6 44.4

170 25.5 19.8 29.8





#45

1,1'-Biphenyl

Concen: 53.40 ng

RT: 8.73 min Scan# 1163

Delta R.T. -0.05 min

Lab File: BF094418.D

Acq: 14 Apr 2017 4:58

Instrument :

BNA_F

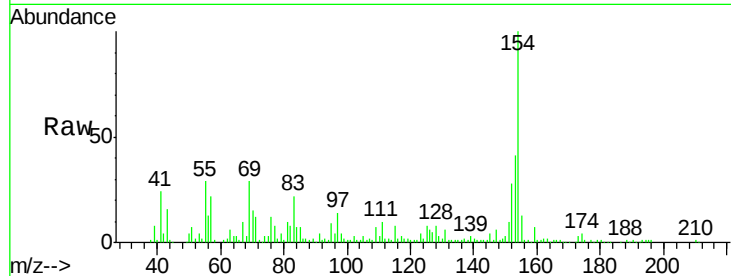
ClientSampleId :

E2-Z9-ESW

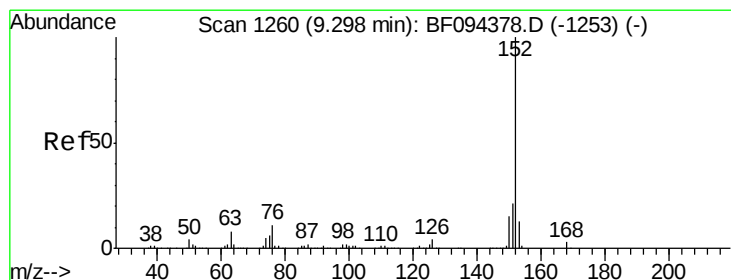
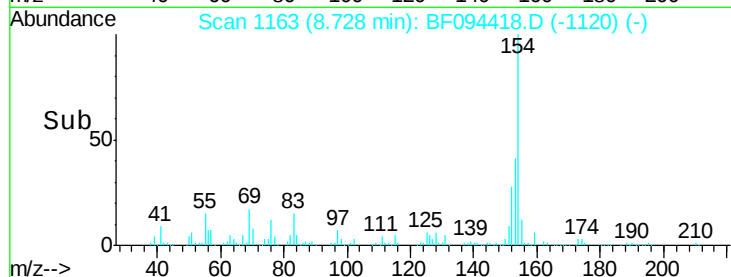
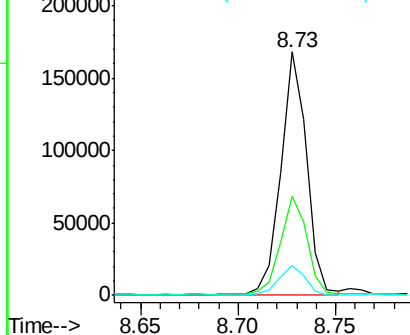
Tot Ion:	154	Resp:	152369
Ion Ratio	Lower	Upper	
154	100		
153	40.9	21.2	61.2
76	12.4	0.0	29.9

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:31 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 5.71 ng

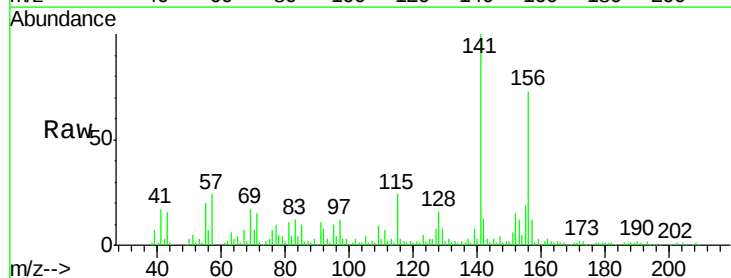
RT: 9.26 min Scan# 1253

Delta R.T. -0.04 min

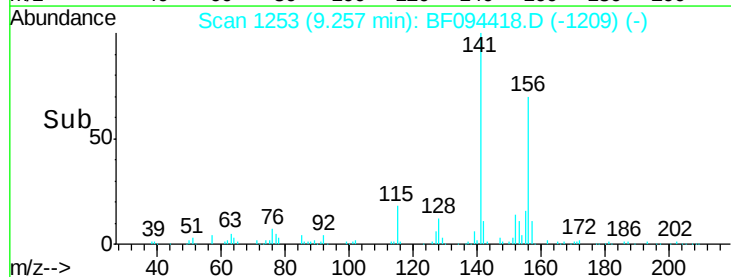
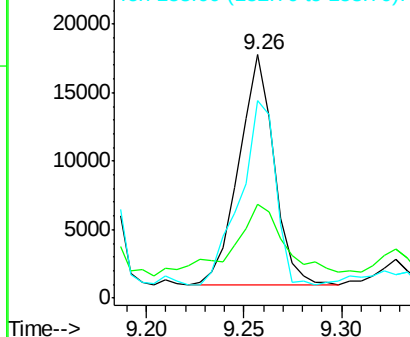
Lab File: BF094418.D

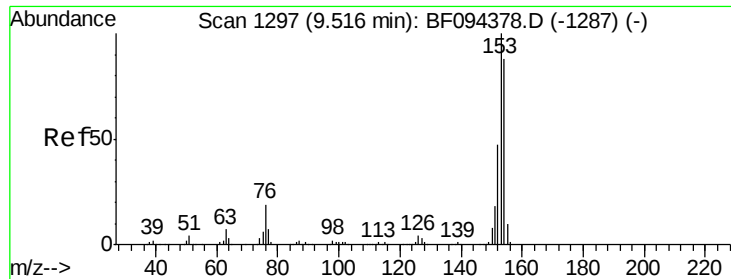
Acq: 14 Apr 2017 4:58

Tgt Ion:	152	Resp:	21214
Ion Ratio	Lower	Upper	
152	100		
151	38.4	16.8	25.2#
153	81.2	10.8	16.2#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 162.51 ng

RT: 9.47 min Scan# 1289

Delta R.T. -0.05 min

Lab File: BF094418.D

Acq: 14 Apr 2017 4:58

Instrument :

BNA_F

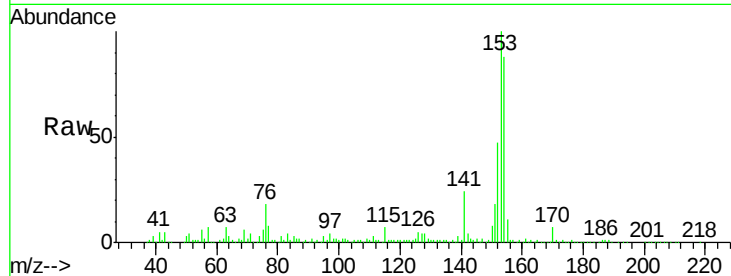
ClientSampleId :

E2-Z9-ESW

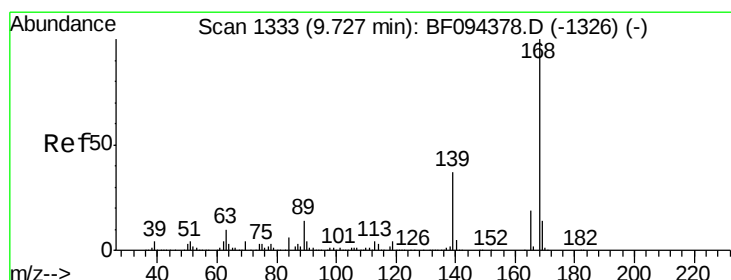
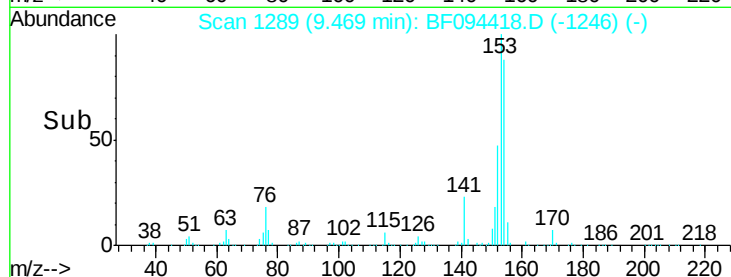
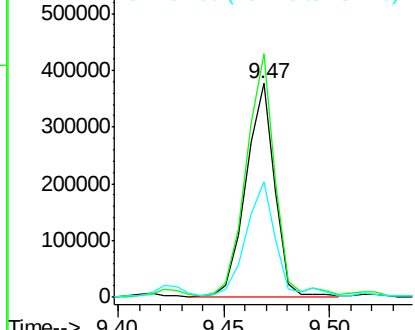
Tot Ion:	154	Resp:	351987
Ion Ratio	Lower	Upper	
154	100		
153	113.7	90.5	135.7
152	53.8	43.6	65.4

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:31 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: 125.23 ng

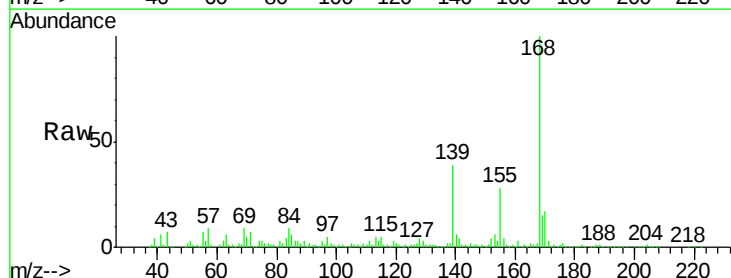
RT: 9.68 min Scan# 1325

Delta R.T. -0.05 min

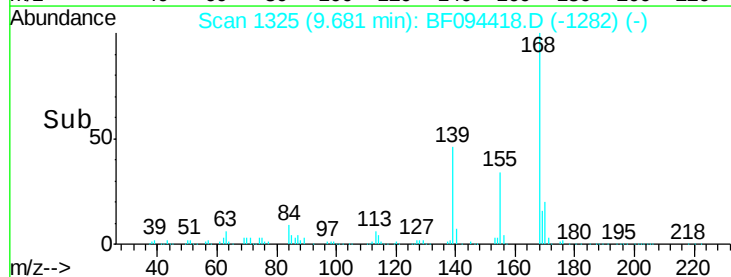
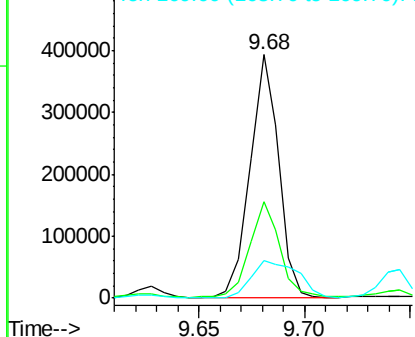
Lab File: BF094418.D

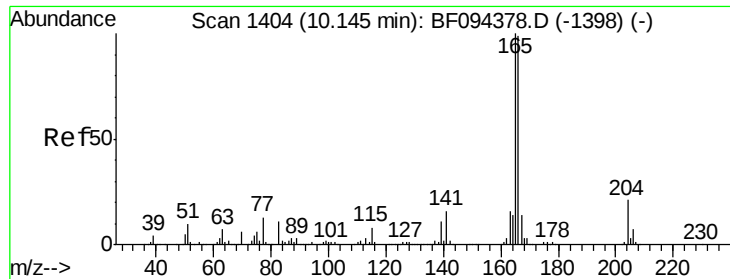
Acq: 14 Apr 2017 4:58

Tgt Ion:	168	Resp:	369248
Ion Ratio	Lower	Upper	
168	100		
139	39.4	30.6	45.8
169	15.5	10.8	16.2



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





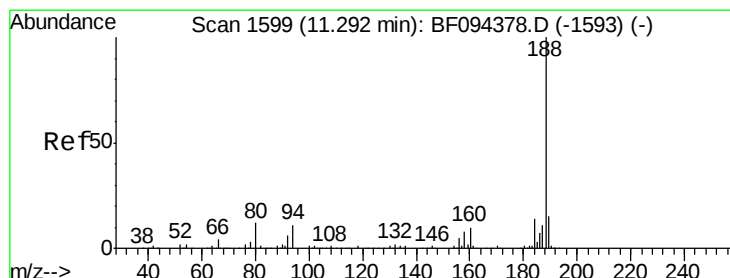
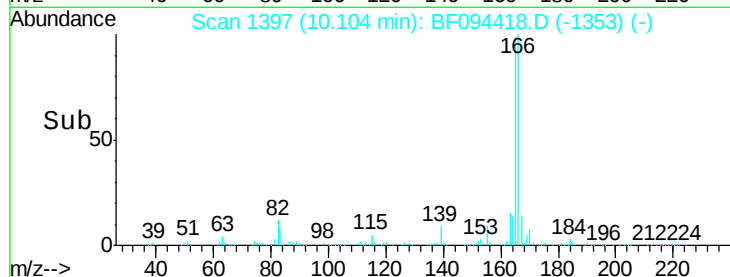
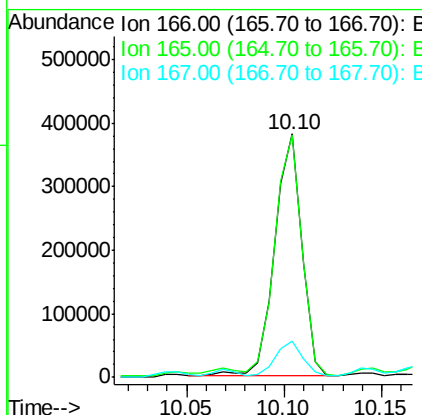
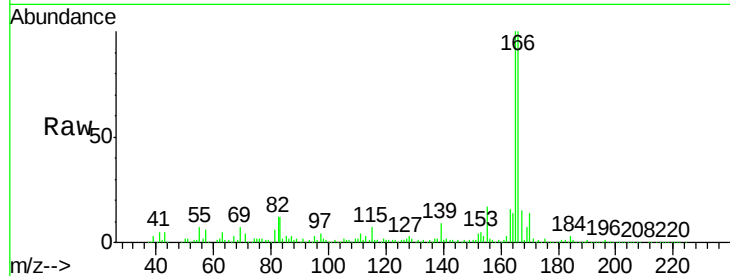
#57
Fluorene
 Concen: 150.68 ng
 RT: 10.10 min Scan# 1397
 Delta R.T. -0.04 min
 Lab File: BF094418.D
 Acq: 14 Apr 2017 4:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-Z9-ESW

Tot Ion	Ratio	Resp	Lower	Upper
166	100	368446		
165	99.6	78.8	118.2	
167	15.0	10.6	16.0	

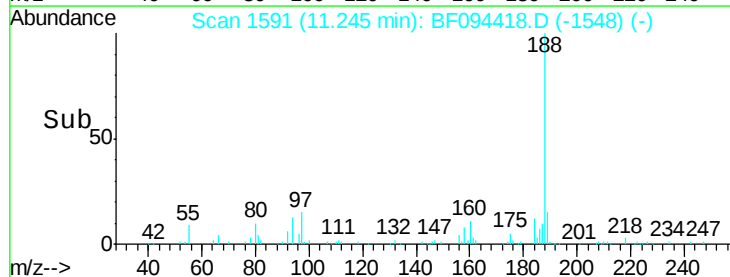
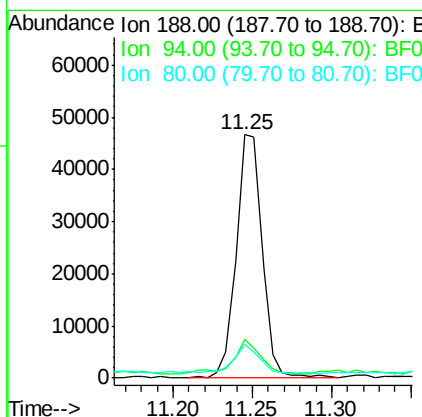
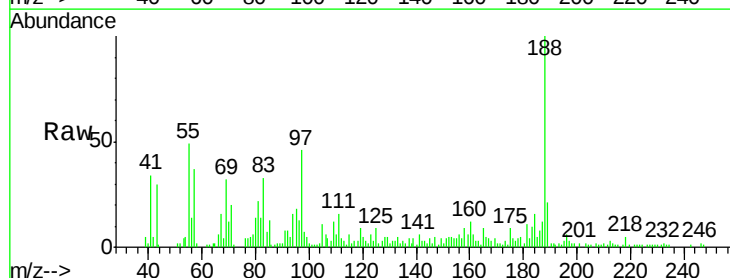
Manual Integrations
 APPROVED

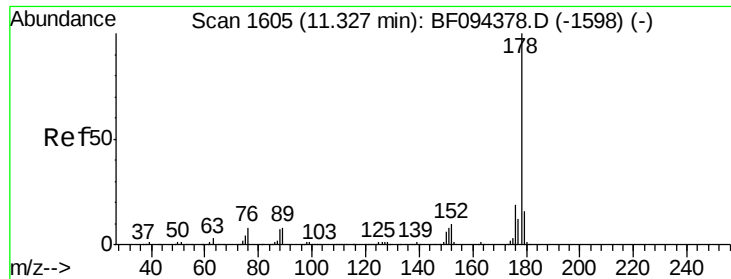
mohammad
 4/14/2017 1:36:31 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.25 min Scan# 1591
 Delta R.T. -0.05 min
 Lab File: BF094418.D
 Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	52906		
94	15.9	9.4	14.2#	
80	13.6	10.2	15.2	





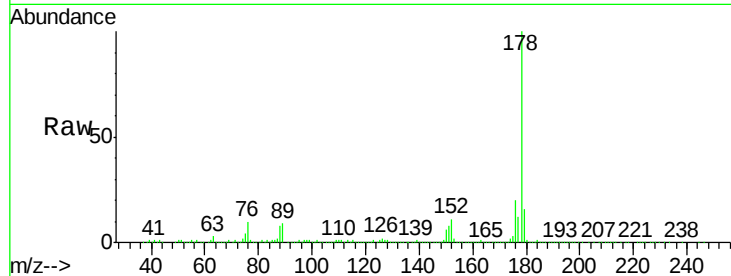
#70
Phenanthrene
Concen: 403.94 ng
RT: 11.28 min Scan# 1597
Delta R.T. -0.05 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-Z9-ESW

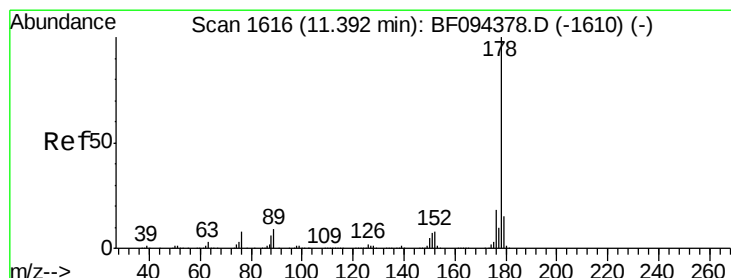
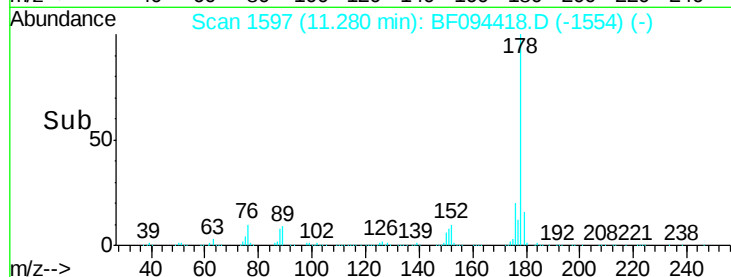
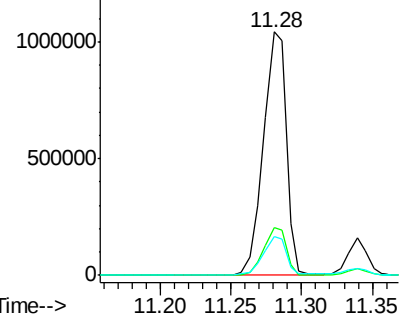
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.2	24.4
179	15.8	12.6	19.0

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:31 PM

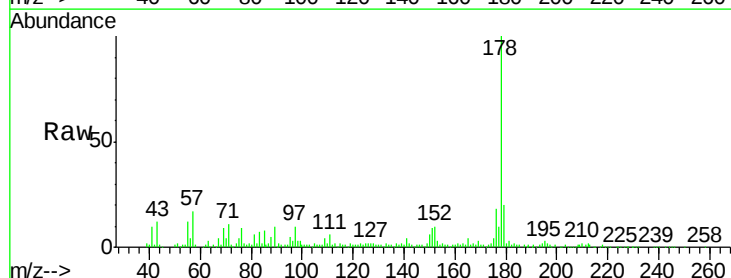


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

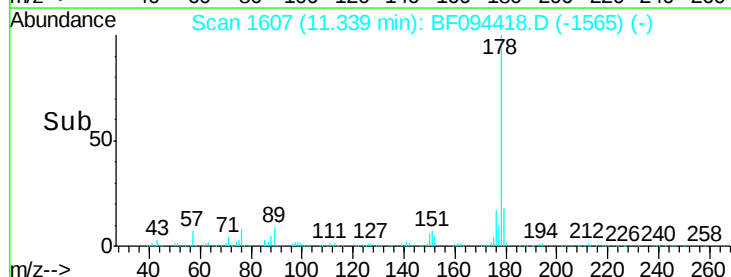
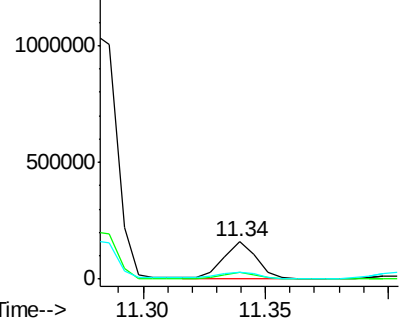


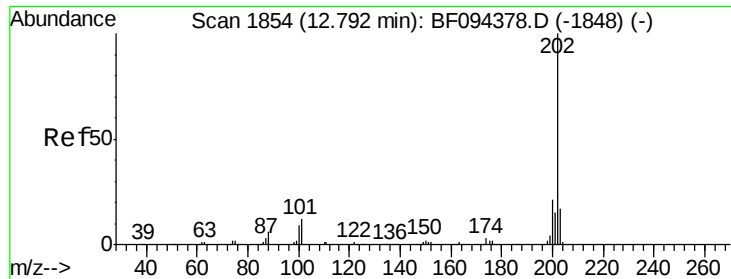
#71
Anthracene
Concen: 49.98 ng m
RT: 11.34 min Scan# 1607
Delta R.T. -0.05 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.8	23.8
179	19.8	12.7	19.1#



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





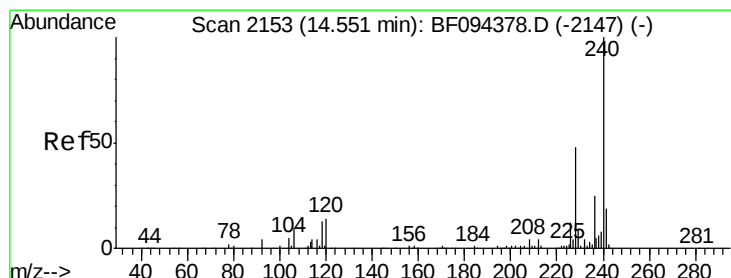
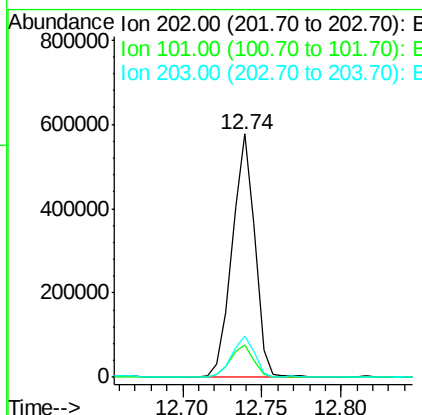
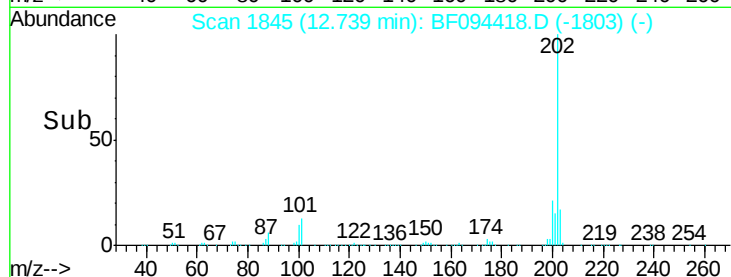
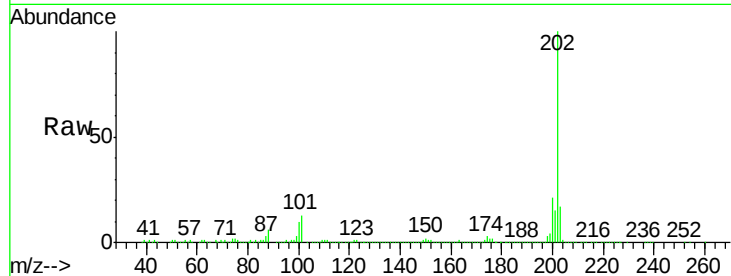
#74
Fluoranthene
Concen: 189.12 ng
RT: 12.74 min Scan# 1845
Delta R.T. -0.05 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-Z9-ESW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.2	0.0	33.2
203	17.2	0.0	38.1

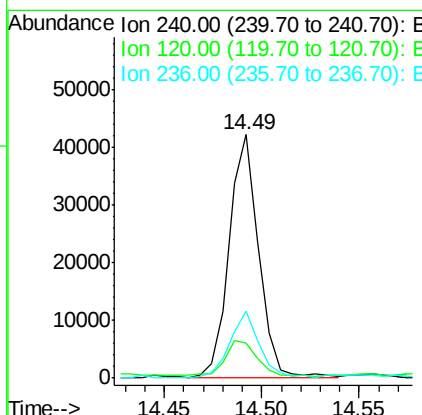
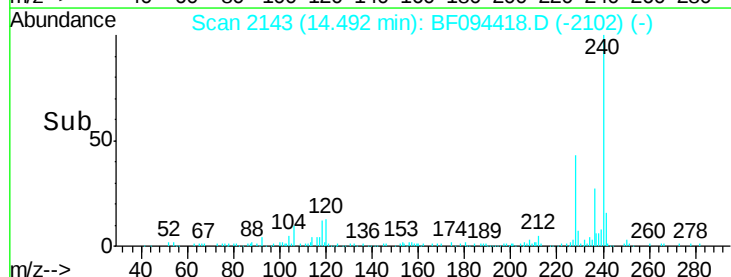
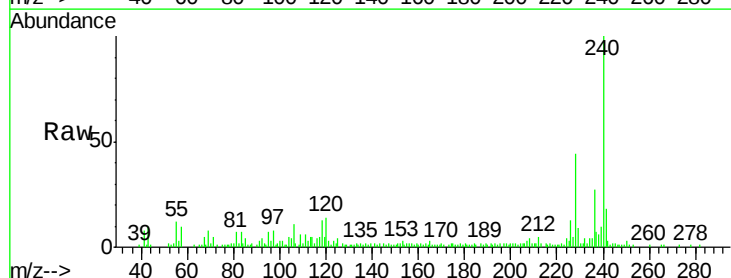
Manual Integrations
APPROVED

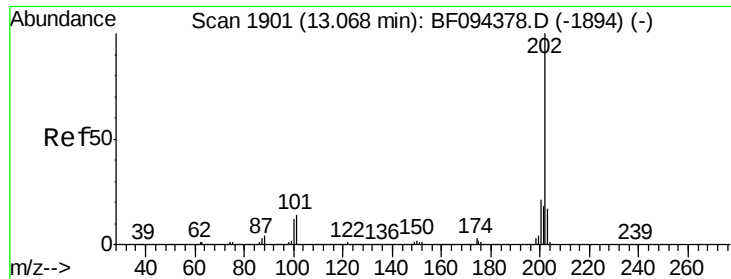
mohammad
4/14/2017 1:36:31 PM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.49 min Scan# 2143
Delta R.T. -0.06 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.2	5.8	8.8#
236	27.4	20.5	30.7





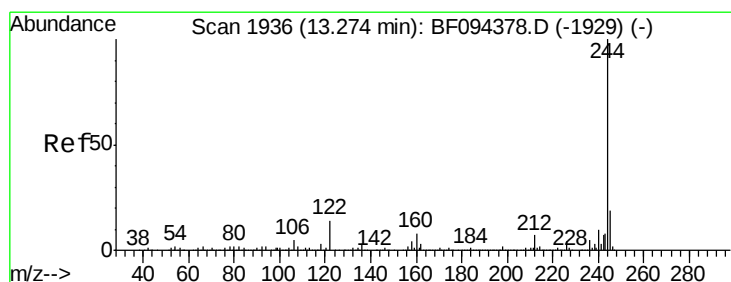
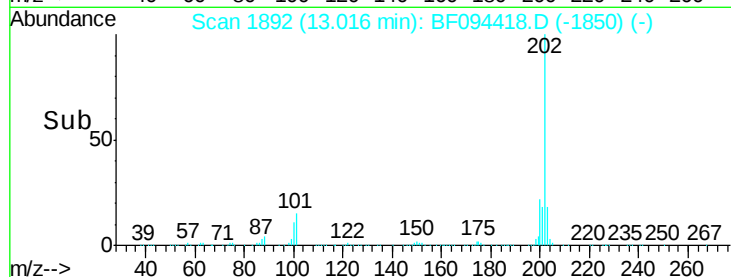
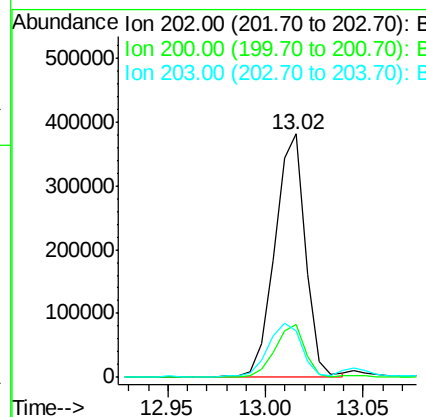
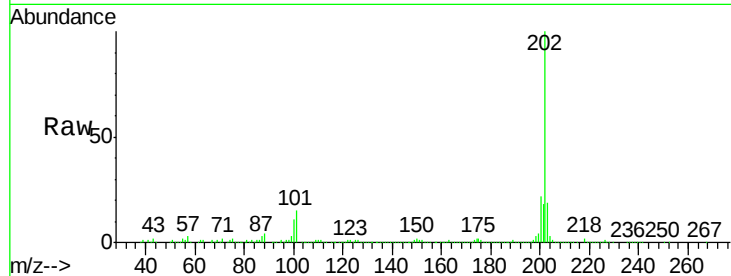
#77
Pvrene
Concen: 126.34 ng
RT: 13.02 min Scan# 1892
Delta R.T. -0.05 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-Z9-ESW

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.6	26.4
203	18.9	14.4	21.6

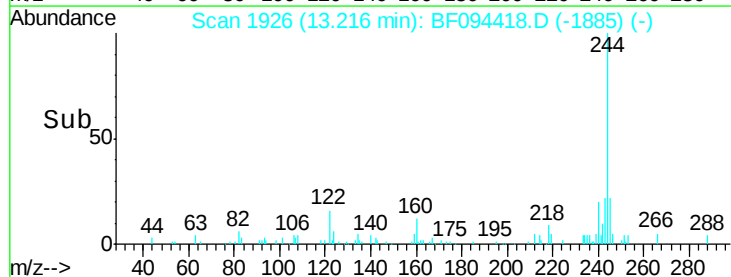
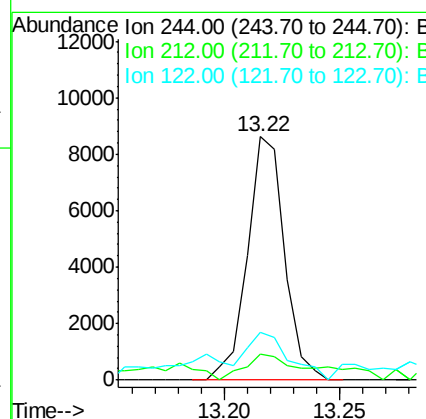
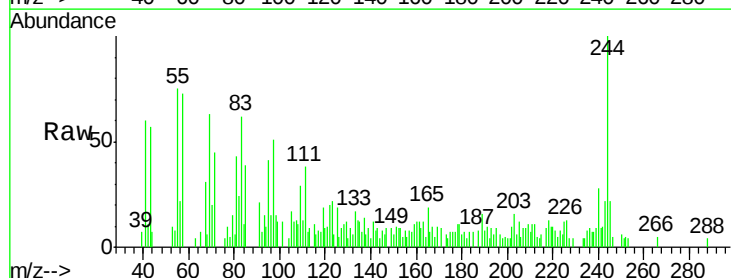
Manual Integrations
APPROVED

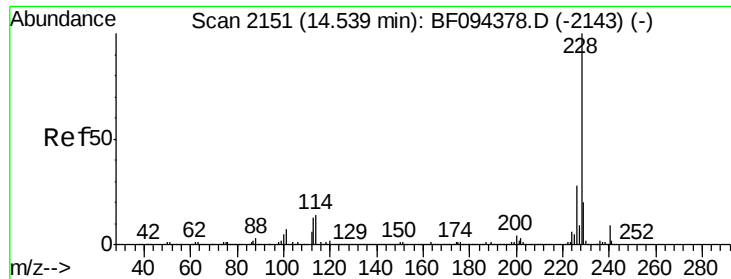
mohammad
4/14/2017 1:36:31 PM



#78
Terphenyl-d14
Concen: 4.87 ng
RT: 13.22 min Scan# 1926
Delta R.T. -0.06 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.6	6.0	9.0#
122	19.6	10.3	15.5#





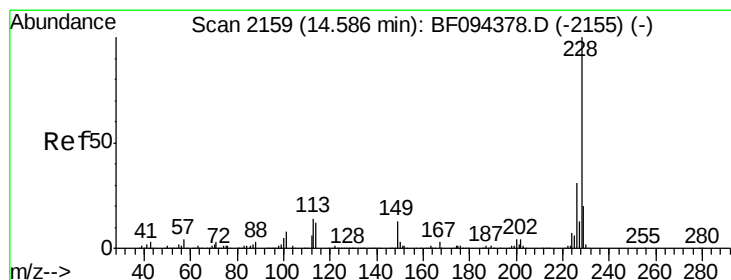
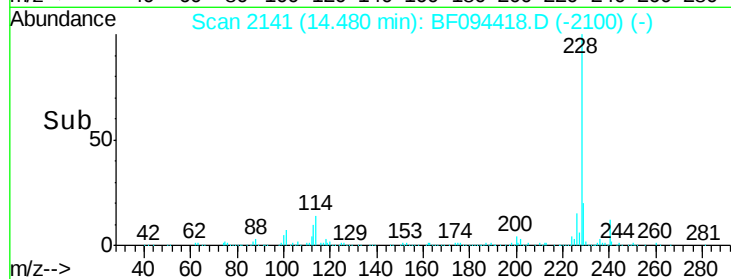
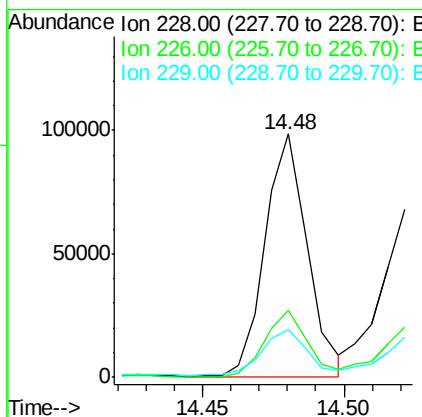
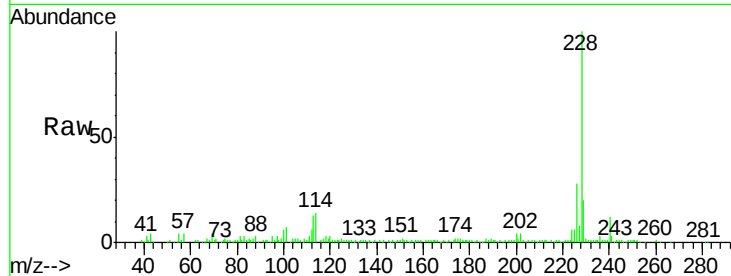
#80
Benzo(a)anthracene
Concen: 39.29 ng
RT: 14.48 min Scan# 2141
Delta R.T. -0.06 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Instrument :
BNA_F
ClientSampled :
E2-Z9-ESW

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	33.8
229	19.7	16.3	24.5

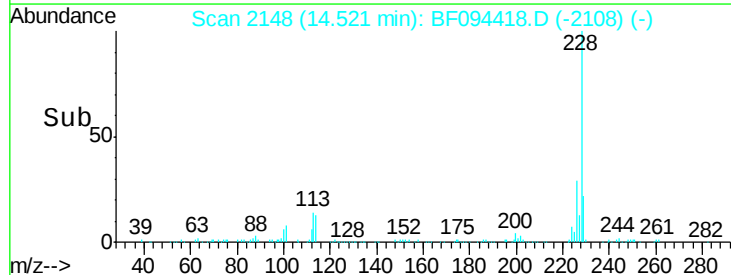
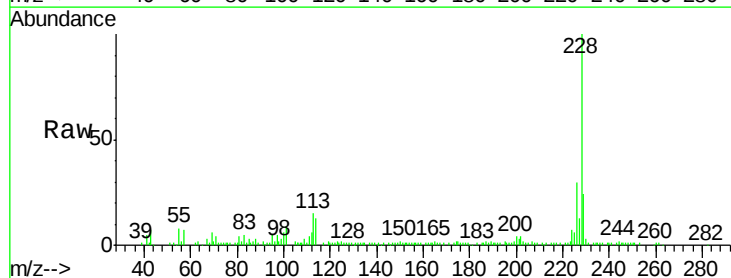
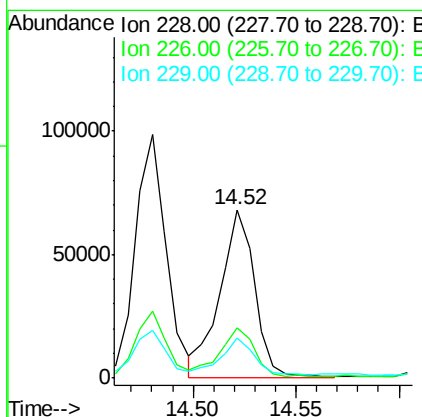
Manual Integrations
APPROVED

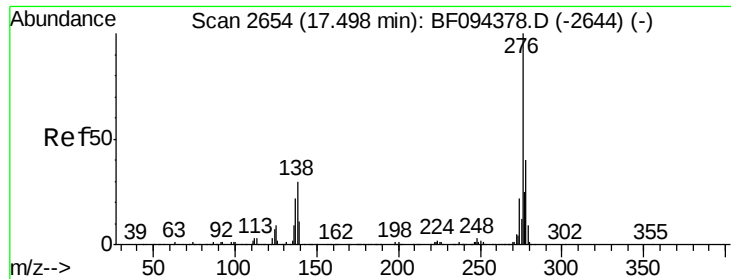
mohammad
4/14/2017 1:36:31 PM



#82
Chrysene
Concen: 33.52 ng m
RT: 14.52 min Scan# 2148
Delta R.T. -0.06 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.9	37.3
229	23.6	15.8	23.6#





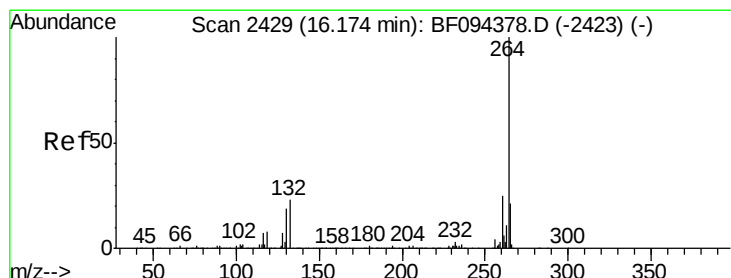
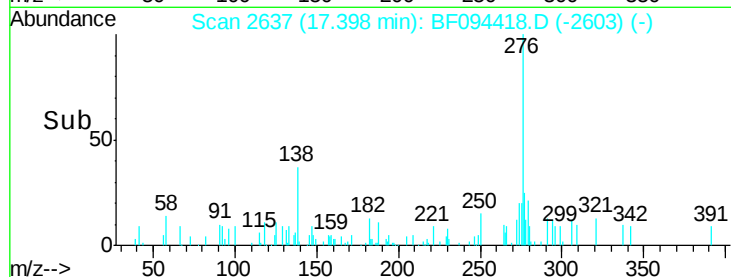
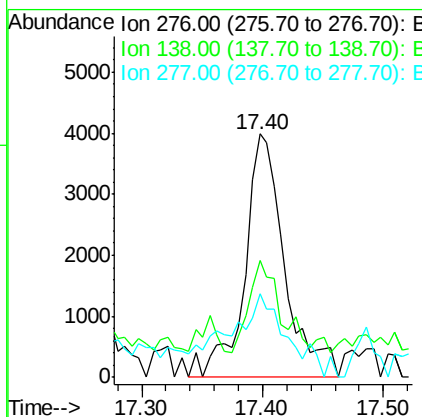
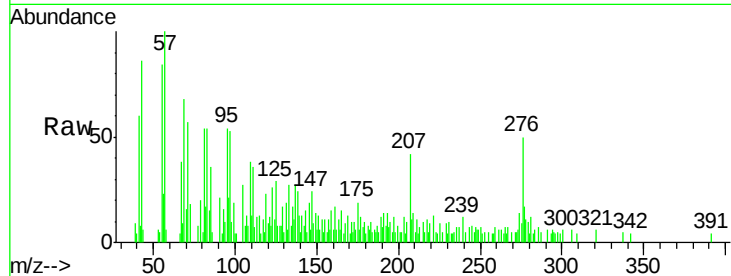
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.38 ng
RT: 17.40 min Scan# 2637
Delta R.T. -0.10 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-Z9-ESW

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.6	27.8	41.6
277	51.8	20.2	30.4

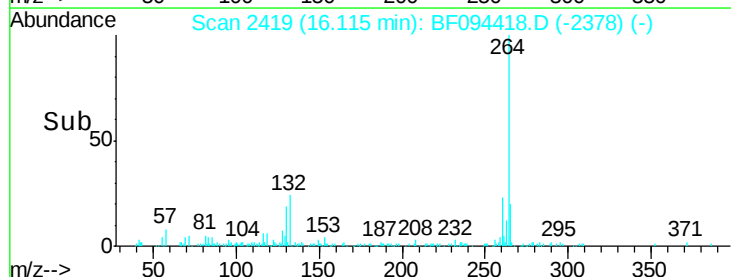
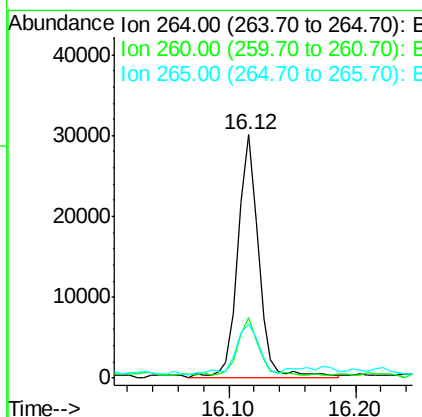
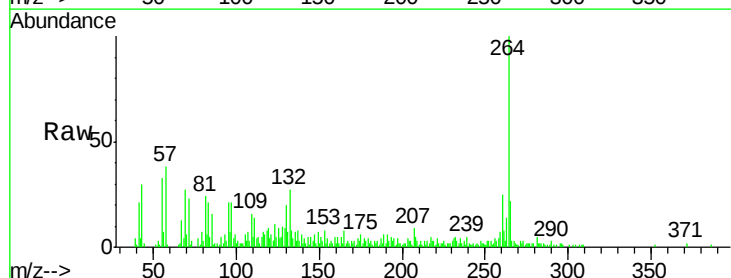
Manual Integrations
APPROVED

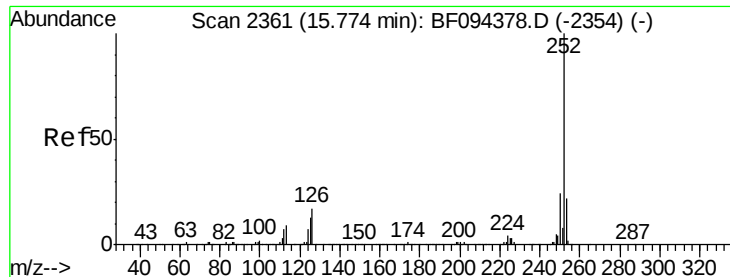
mohammad
4/14/2017 1:36:31 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 16.12 min Scan# 2419
Delta R.T. -0.06 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.5	29.3
265	22.2	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 20.35 ng m

RT: 15.72 min Scan# 2351

Delta R.T. -0.06 min

Lab File: BF094418.D

Acq: 14 Apr 2017 4:58

Instrument :

BNA_F

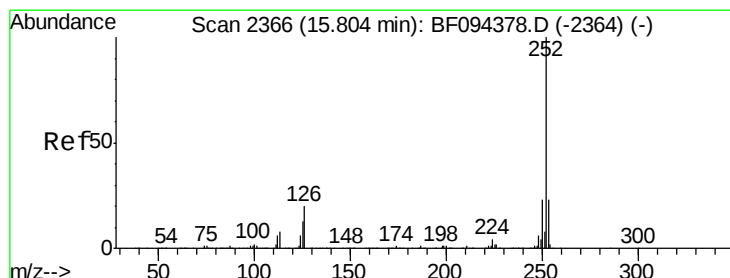
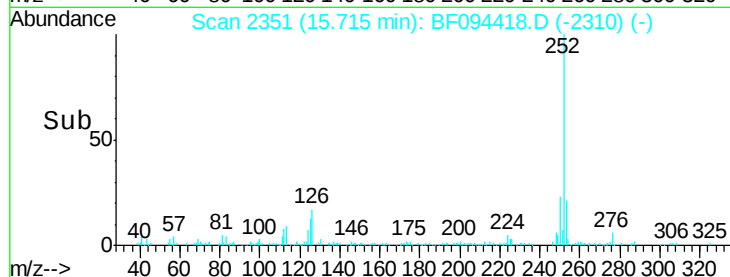
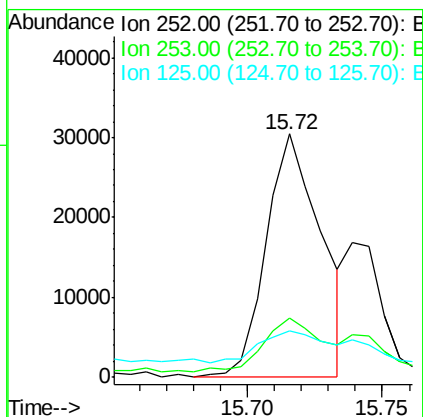
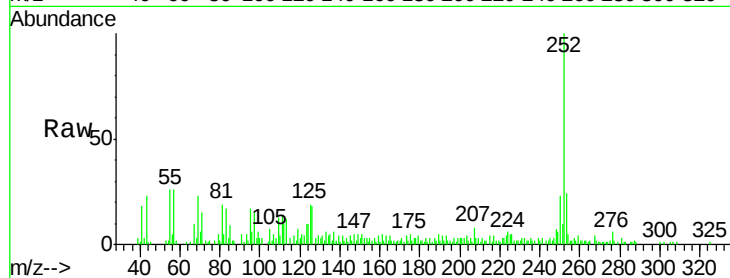
ClientSampleId :

E2-Z9-ESW

Tot Ion:	252	Resp:	43014
Ion Ratio	Lower	Upper	
252	100		
253	24.3	18.1	27.1
125	19.0	9.8	14.8#

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:31 PM



#88

Benzo(k)fluoranthene

Concen: 7.86 ng m

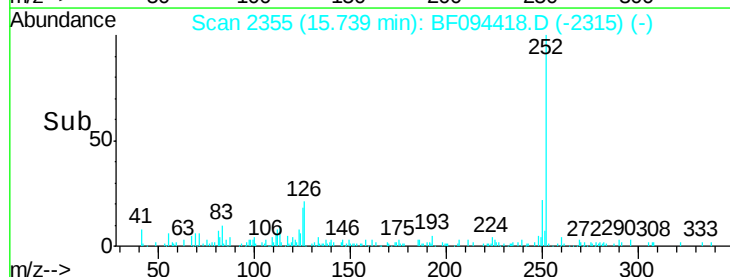
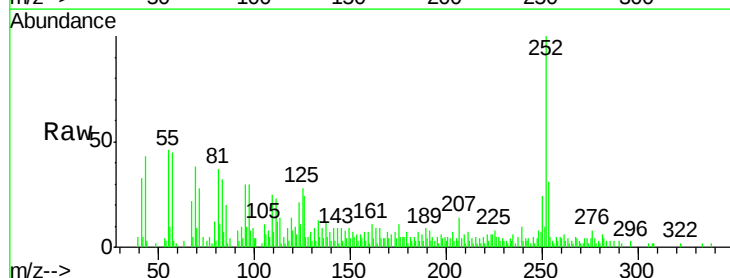
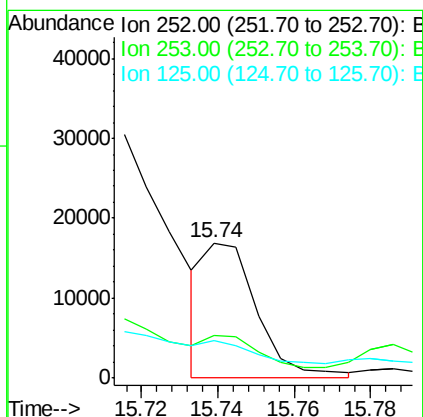
RT: 15.74 min Scan# 2355

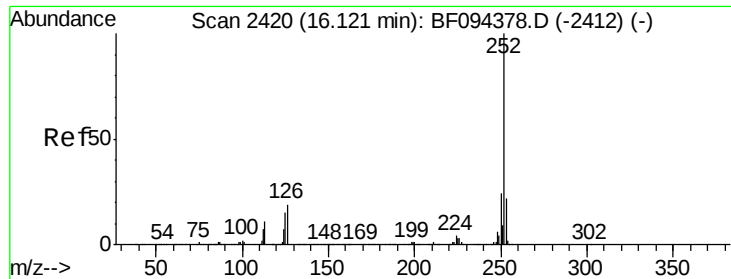
Delta R.T. -0.06 min

Lab File: BF094418.D

Acq: 14 Apr 2017 4:58

Tgt Ion:	252	Resp:	16267
Ion Ratio	Lower	Upper	
252	100		
253	31.3	18.4	27.6#
125	27.6	13.1	19.7#





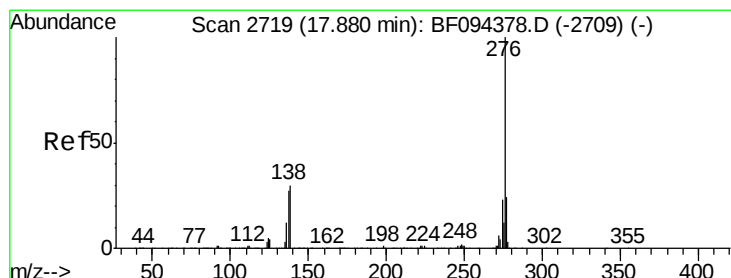
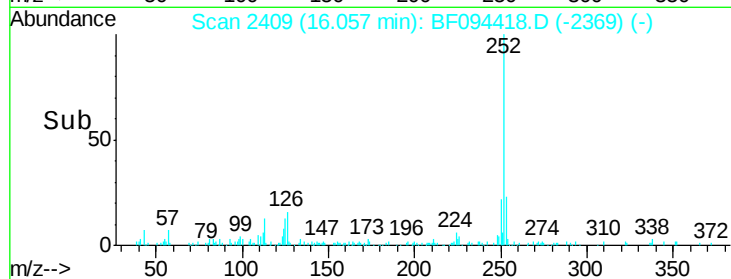
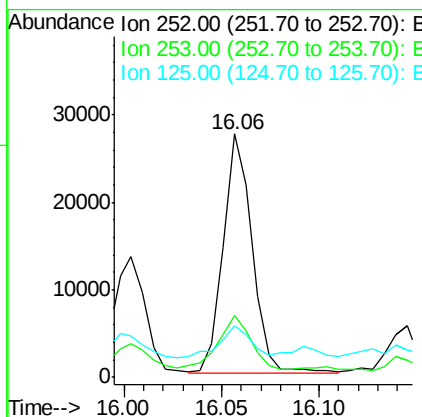
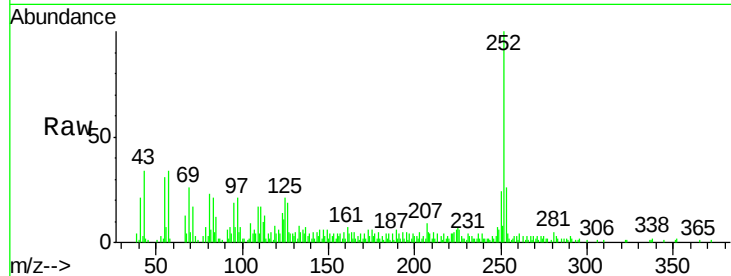
#89
Benzo(a)pyrene
Concen: 14.36 ng
RT: 16.06 min Scan# 2409
Delta R.T. -0.06 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-Z9-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.5	26.3
125	21.3	11.0	16.4

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:31 PM



#91
Benzo(g,h,i)perylene
Concen: 3.83 ng
RT: 17.78 min Scan# 2702
Delta R.T. -0.10 min
Lab File: BF094418.D
Acq: 14 Apr 2017 4:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.3	18.6	28.0
138	37.8	25.4	38.0

