

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\
 Data File : BF093189.D
 Acq On : 25 Feb 2017 13:32
 Operator : SJ/MA
 Sample : I1972-16
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-1

Manual Integrations
 APPROVED

mohammad
 2/27/2017 1:08:59 PM

Quant Time: Feb 27 10:23:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	149641	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	526721	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	230922	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	331369	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	283942	20.00	ng	-0.01
86) Perylene-d12	15.45	264	254560	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	1132226	129.81	ng	-0.01
7) Phenol-d6	6.49	99	1447342	128.97	ng	0.00
23) Nitrobenzene-d5	7.40	82	822930	87.00	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	174971	104.76	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	1292308	101.39	ng	-0.01
78) Terphenyl-d14	12.96	244	838103	69.35	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.50	94	66986	5.10	ng	# 66
31) Naphthalene	8.14	128	208706	7.82	ng	99
37) 2-Methylnaphthalene	8.84	142	78348	4.57	ng	95
48) Acenaphthylene	9.74	152	252340	11.17	ng	97
49) Dimethylphthalate	9.60	163	158762	10.21	ng	# 99
54) Dibenzofuran	10.09	168	64529	3.57	ng	# 90
57) Fluorene	10.43	166	35444m	2.55	ng	
70) Phenanthrene	11.39	178	484995	25.55	ng	97
71) Anthracene	11.44	178	253787	13.31	ng	99
72) Carbazole	11.60	167	67164	3.69	ng	100
74) Fluoranthene	12.58	202	965895	49.32	ng	98
77) Pyrene	12.81	202	919829	43.29	ng	99
80) Benzo(a)anthracene	14.00	228	734765	42.31	ng	94
82) Chrysene	14.04	228	588588m	36.20	ng	
85) Indeno(1,2,3-cd)pyrene	16.87	276	309780	24.60	ng	98
87) Benzo(b)fluoranthene	15.05	252	982507m	58.64	ng	
88) Benzo(k)fluoranthene	15.06	252	211521m	14.62	ng	
89) Benzo(a)pyrene	15.39	252	465591	32.12	ng	# 96
90) Dibenzo(a,h)anthracene	16.87	278	89941m	7.68	ng	
91) Benzo(a,h,i)perylene	17.30	276	259339	21.92	ng	# 92

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

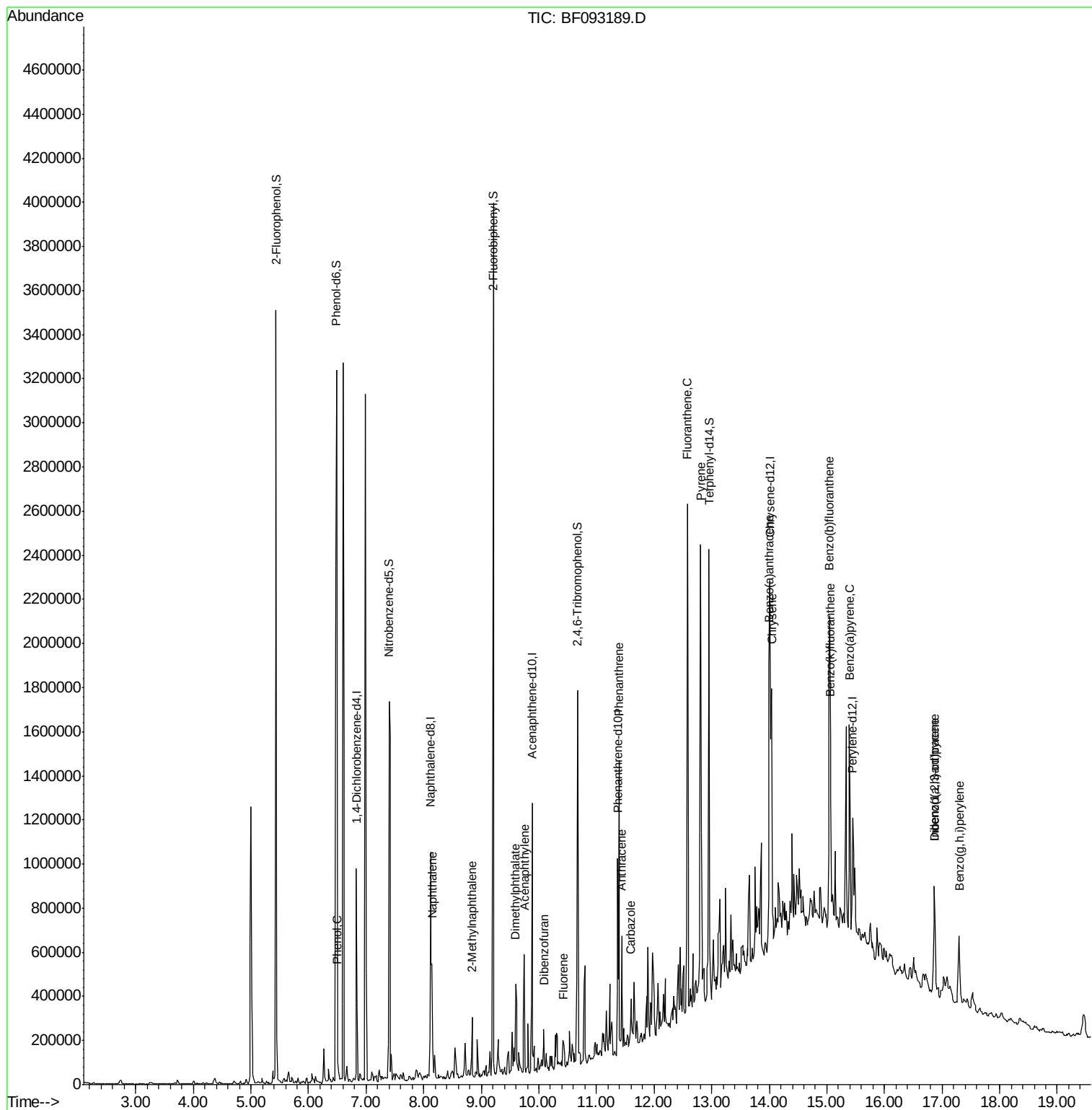
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\
Data File : BF093189.D
Acq On : 25 Feb 2017 13:32
Operator : SJ/MA
Sample : I1972-16
Misc :
ALS Vial : 42 Sample Multiplier: 1

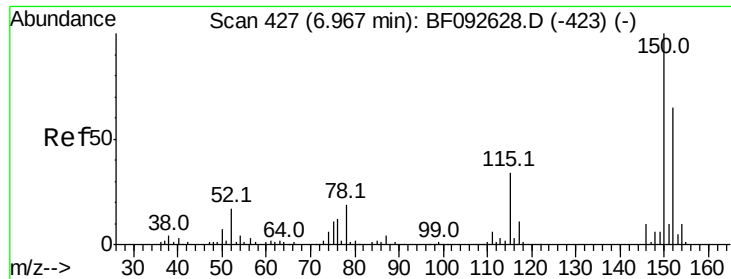
Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:59 PM

Quant Time: Feb 27 10:23:56 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 17:31:55 2017
Response via : Initial Calibration





#1

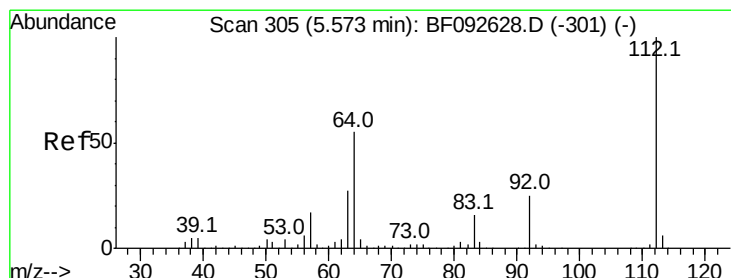
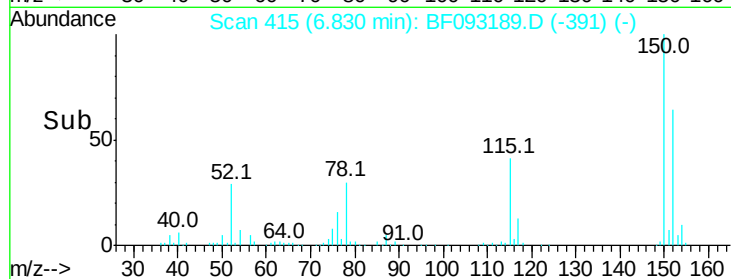
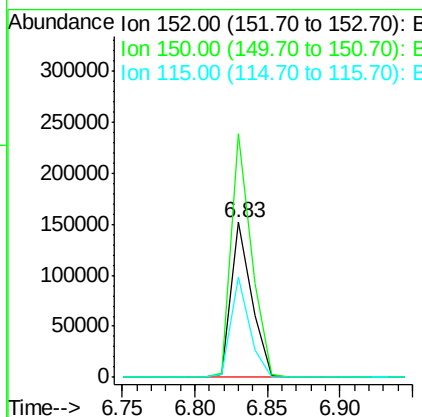
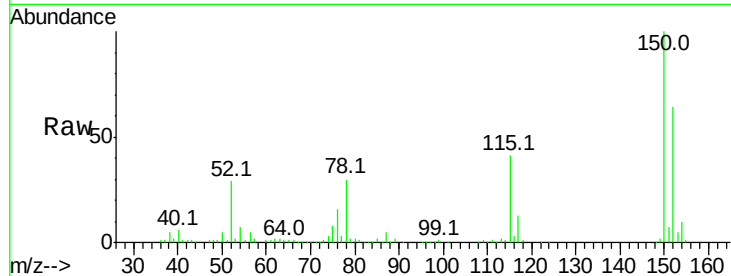
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.83 min Scan# 415
Delta R.T. -0.02 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.9	187.3
115	65.2	46.0	69.0

Manual Integrations
APPROVED

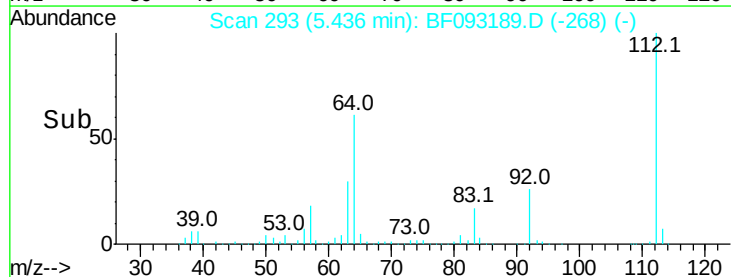
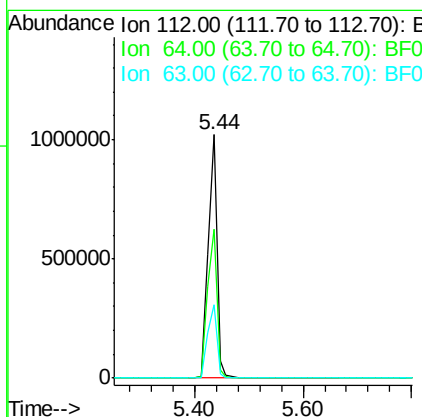
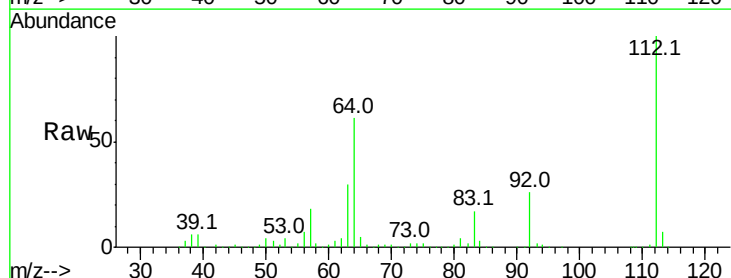
mohammad
2/27/2017 1:08:59 PM

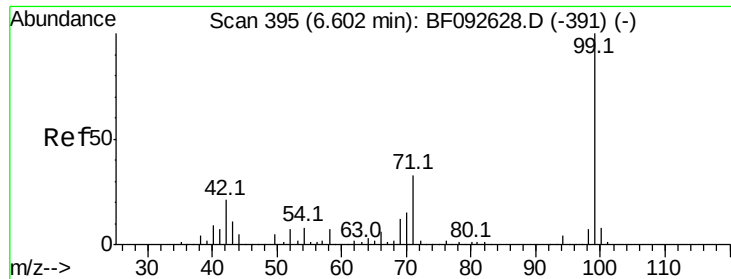


#5

2-Fluorophenol
Concen: 129.81 ng
RT: 5.44 min Scan# 293
Delta R.T. -0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.3	46.1	69.1
63	30.3	23.8	35.6





#7

Phenol-d6

Concen: 128.97 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.00 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

Instrument :

BNA_F

ClientSampleId :

E2-B1-SW-1

Tot Ion: 99 Resp: 1447342

Ion Ratio Lower Upper

99 100

42 17.1 15.6 23.4

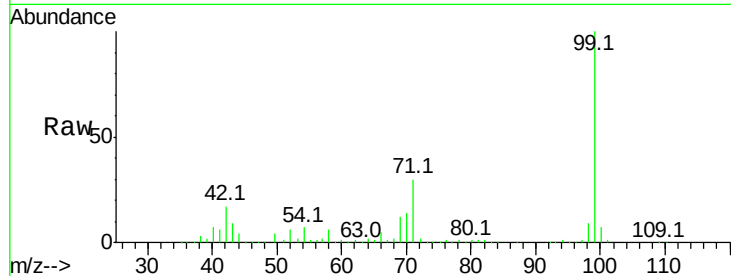
71 30.1 27.5 41.3

Manual Integrations

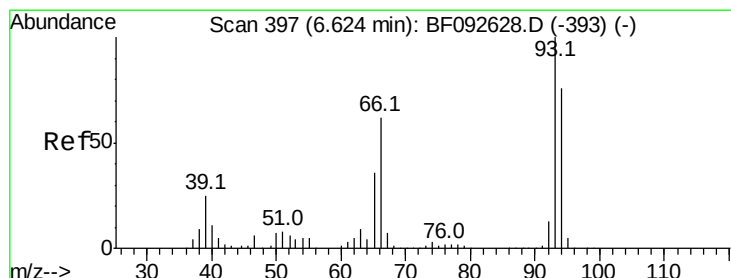
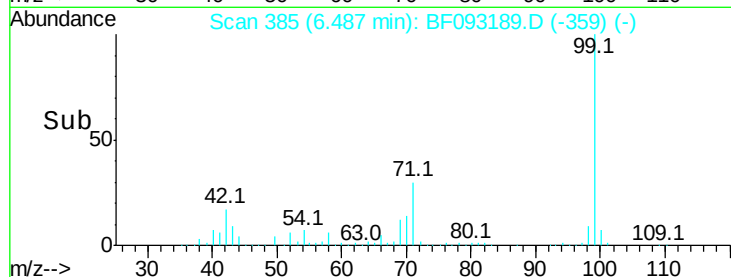
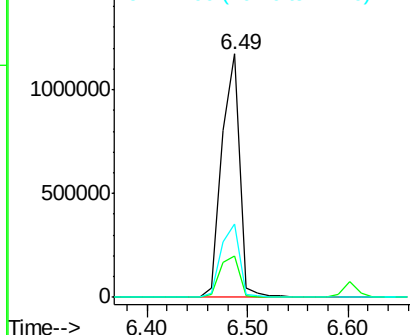
APPROVED

mohammad

2/27/2017 1:08:59 PM



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 5.10 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

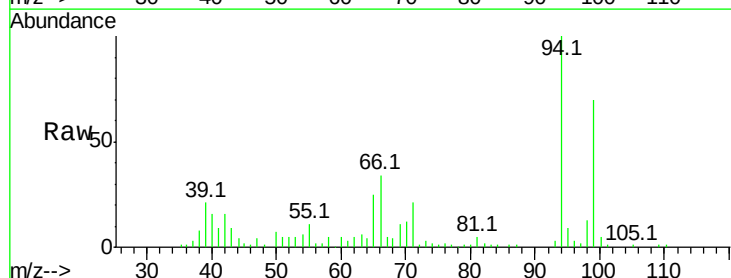
Tgt Ion: 94 Resp: 66986

Ion Ratio Lower Upper

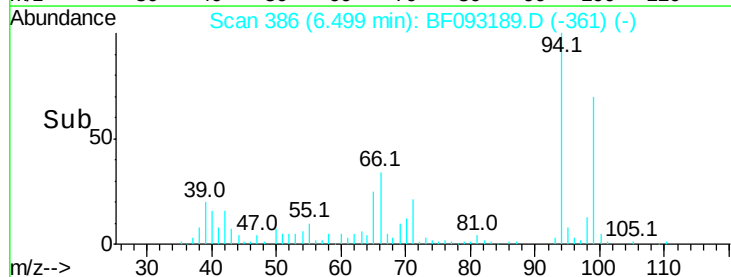
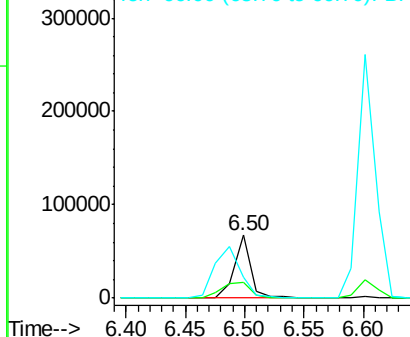
94 100

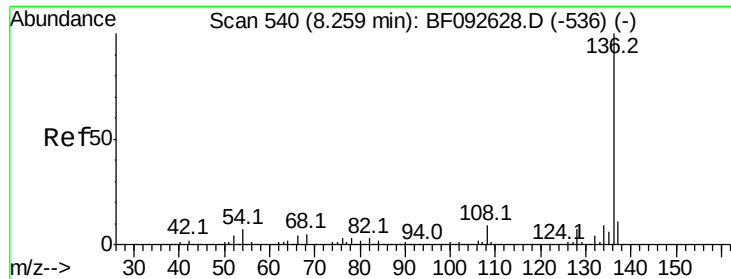
65 24.6 21.4 61.4

66 33.9 44.0 84.0#



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

Instrument :

BNA_F

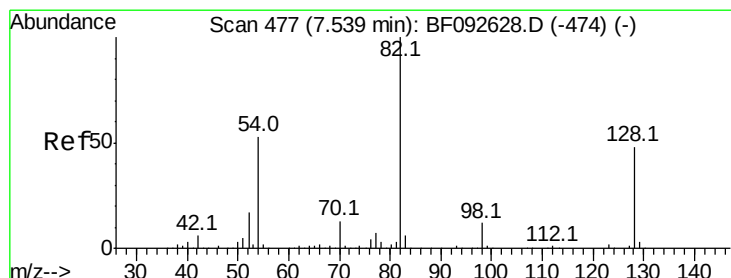
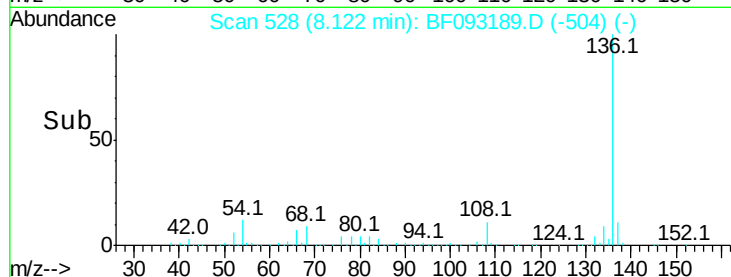
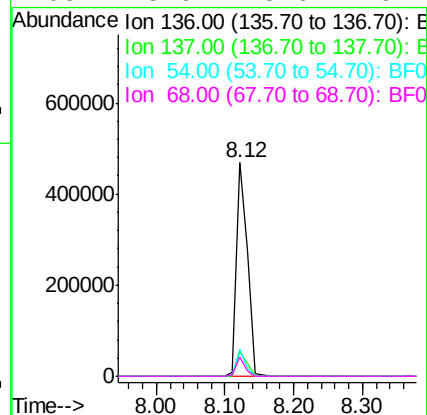
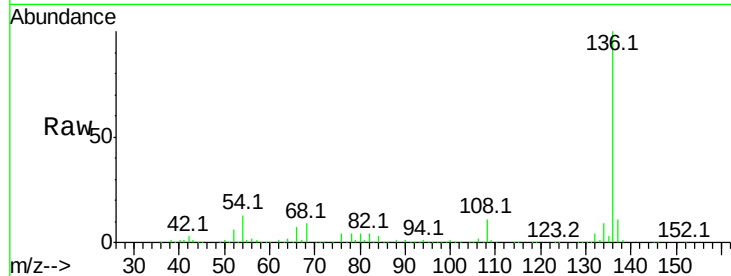
ClientSampleId :

E2-B1-SW-1

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.2	8.4	12.6	
54	12.6	4.5	6.7#	
68	8.9	3.6	5.4#	

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:59 PM



#23

Nitrobenzene-d5

Concen: 87.00 ng

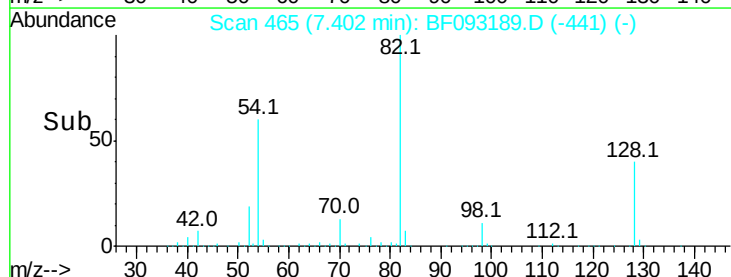
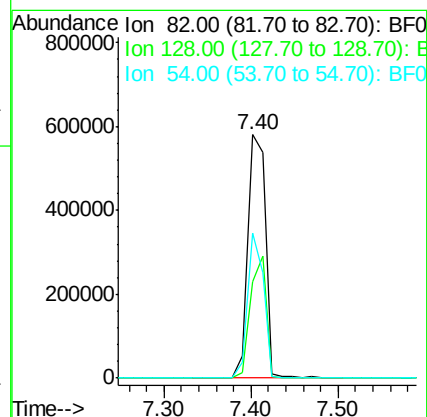
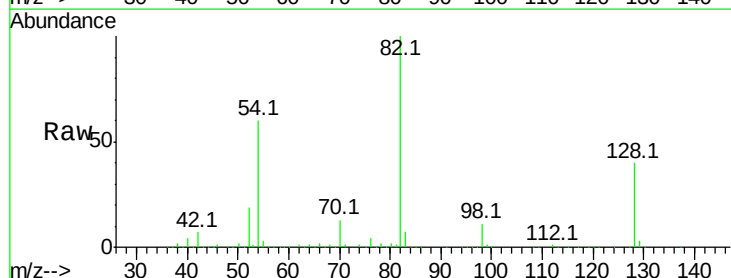
RT: 7.40 min Scan# 465

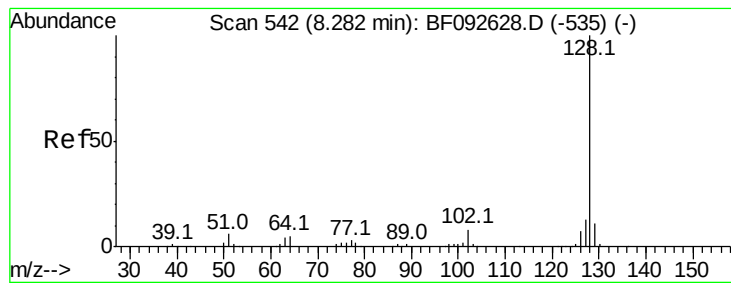
Delta R.T. -0.02 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	39.8	34.6	52.0	
54	59.8	39.5	59.3#	





#31

Naphthalene

Concen: 7.82 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

Instrument :

BNA_F

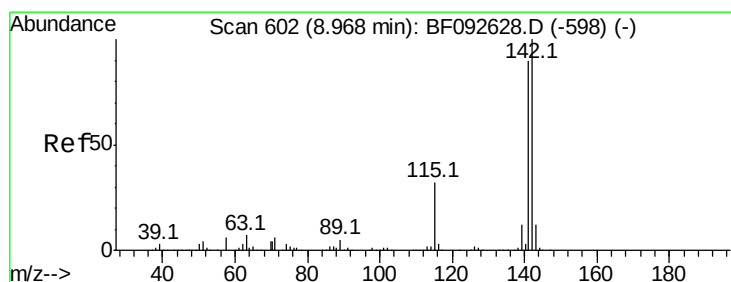
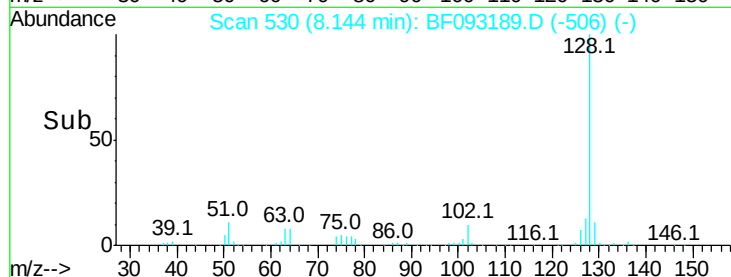
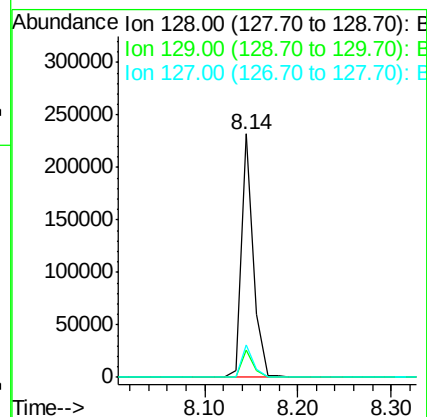
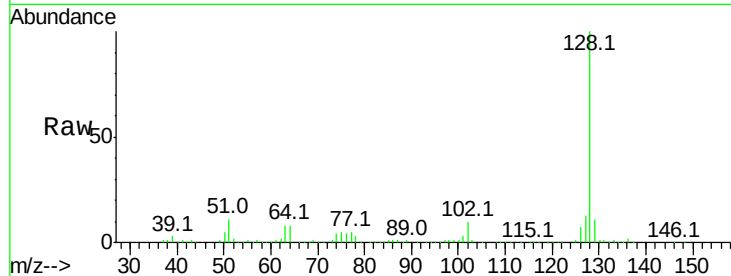
ClientSampleId :

E2-B1-SW-1

Tot Ion:	128	Resp:	208706
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.5	14.3
127	13.1	10.8	16.2

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:59 PM



#37

2-Methylnaphthalene

Concen: 4.57 ng

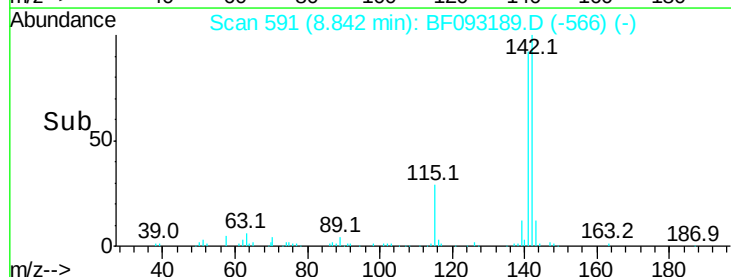
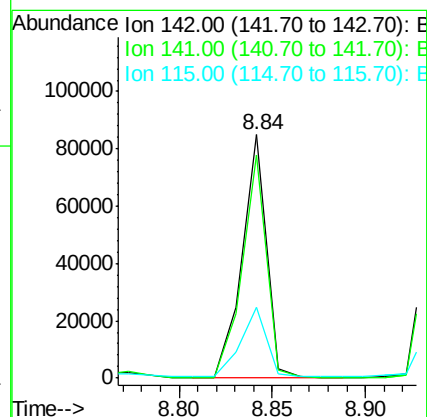
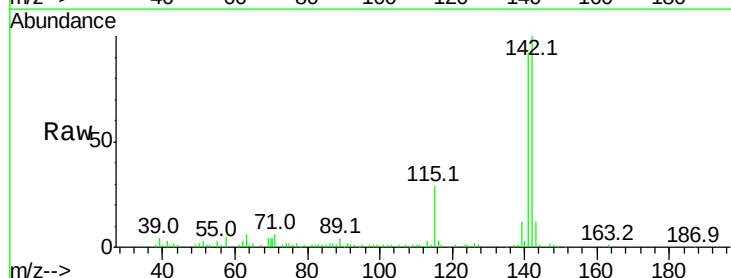
RT: 8.84 min Scan# 591

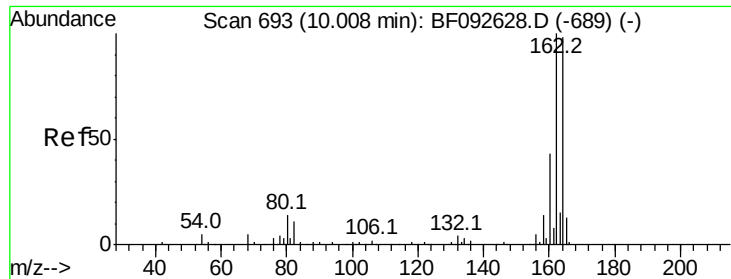
Delta R.T. -0.01 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

Tgt Ion:	142	Resp:	78348
Ion Ratio	Lower	Upper	
142	100		
141	91.8	71.0	106.6
115	29.1	28.3	42.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

Instrument :

BNA_F

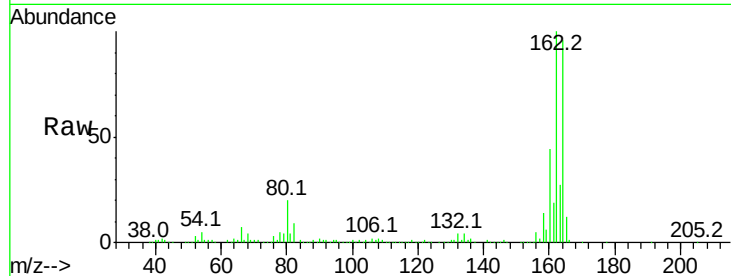
ClientSampleId :

E2-B1-SW-1

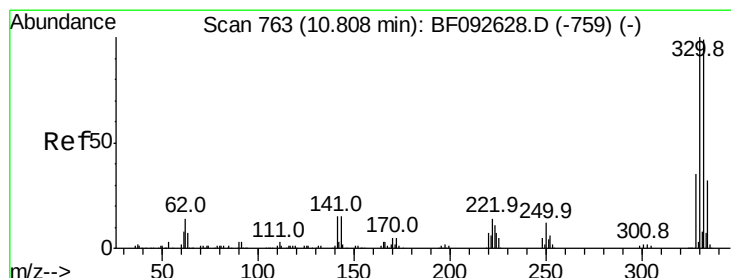
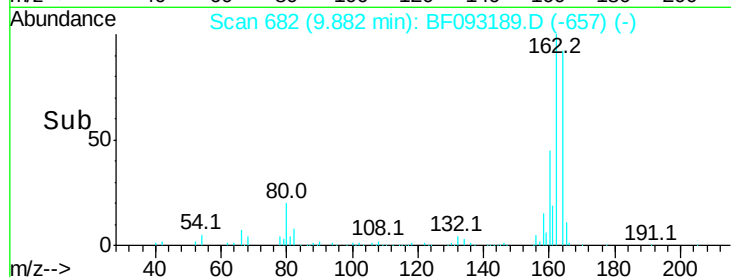
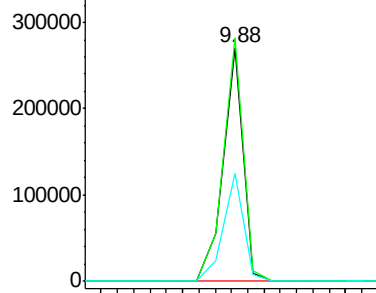
Tot Ion:	164	Resp:	230922
Ion Ratio	Lower	Upper	
164	100		
162	104.3	80.2	120.2
160	46.3	36.9	55.3

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:59 PM



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



#41

2,4,6-Tribromophenol

Concen: 104.76 ng

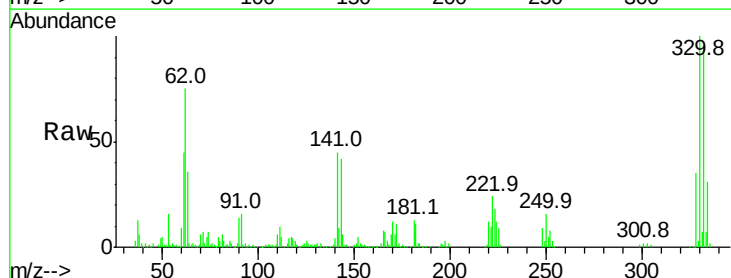
RT: 10.67 min Scan# 751

Delta R.T. -0.01 min

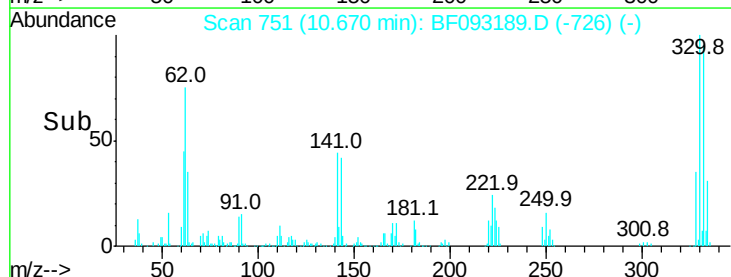
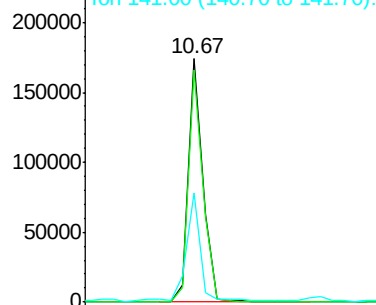
Lab File: BF093189.D

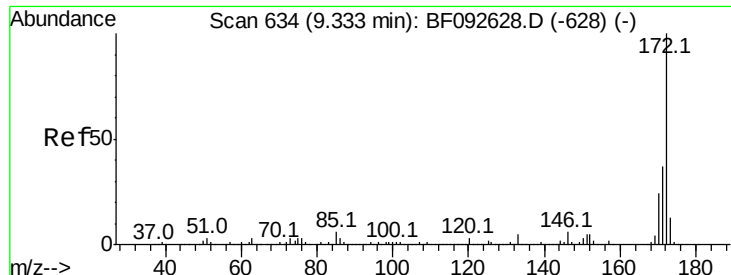
Acq: 25 Feb 2017 13:32

Tgt Ion:	330	Resp:	174971
Ion Ratio	Lower	Upper	
330	100		
332	95.0	77.4	116.2
141	43.5	34.1	51.1



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





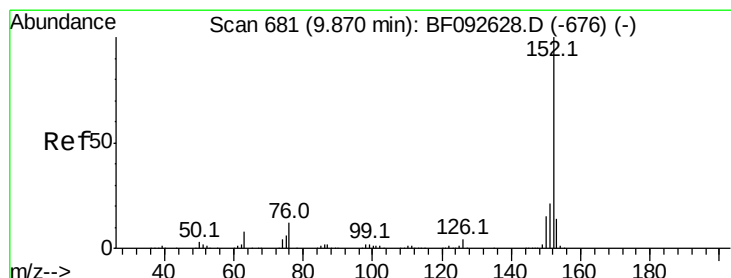
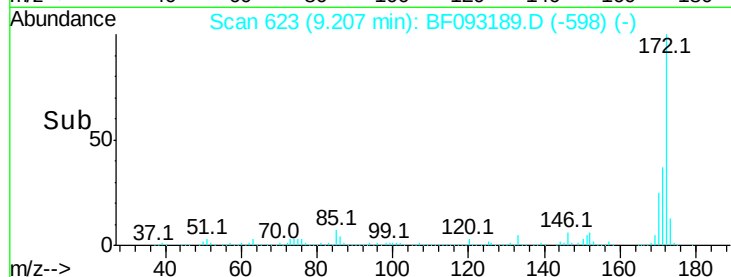
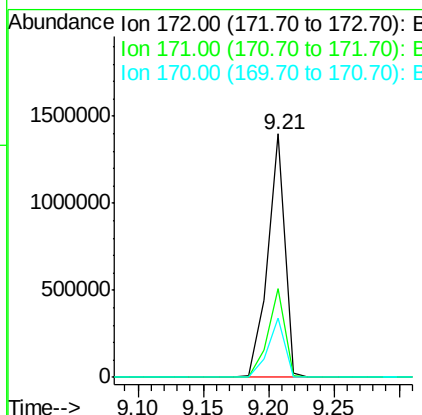
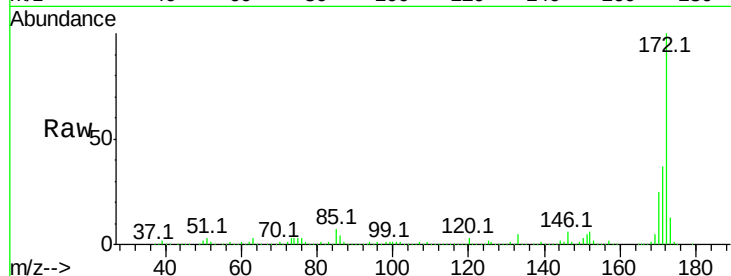
#44
2-Fluorobiphenyl
Concen: 101.39 ng
RT: 9.21 min Scan# 623
Delta R.T. -0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Tot Ion:172 Resp: 1292308
Ion Ratio Lower Upper
172 100
171 36.7 29.4 44.0
170 24.5 20.2 30.4

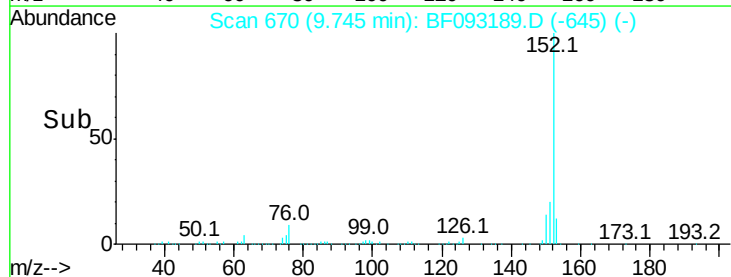
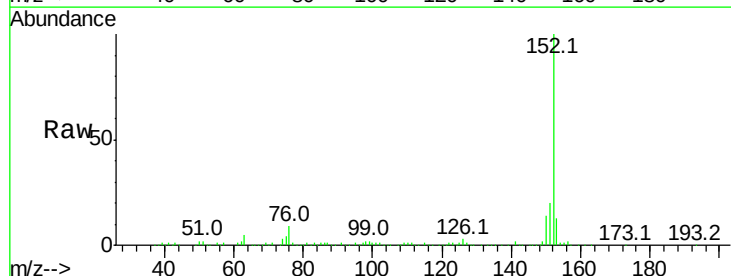
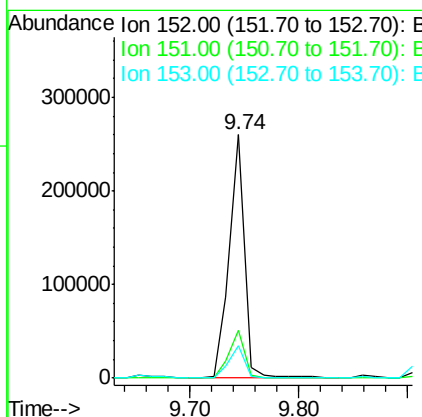
Manual Integrations
APPROVED

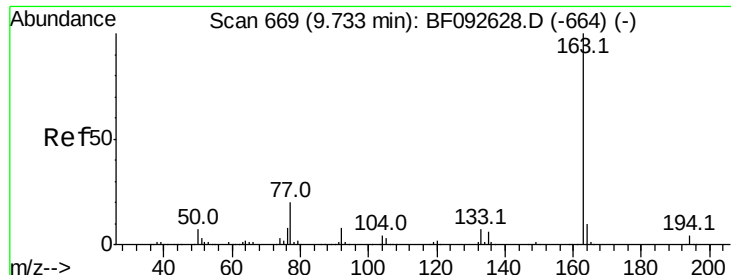
mohammad
2/27/2017 1:08:59 PM



#48
Acenaphthylene
Concen: 11.17 ng
RT: 9.74 min Scan# 670
Delta R.T. -0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Tgt Ion:152 Resp: 252340
Ion Ratio Lower Upper
152 100
151 19.7 16.9 25.3
153 13.2 11.4 17.2





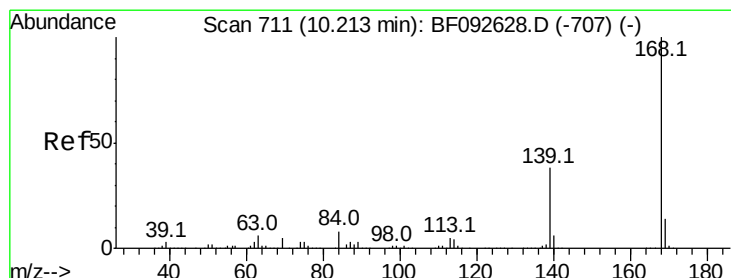
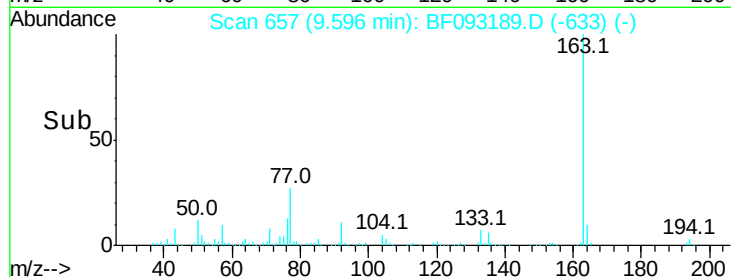
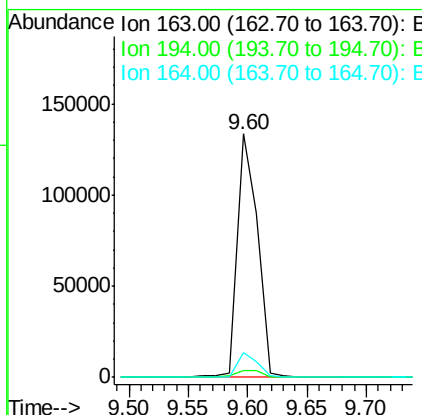
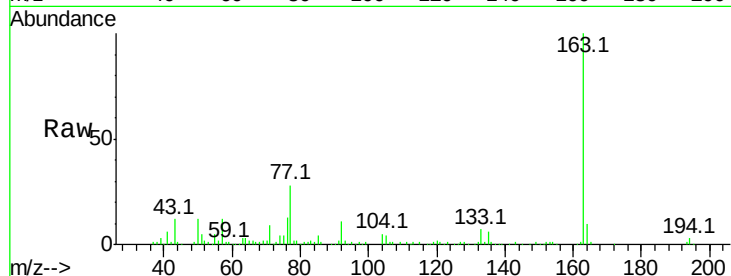
#49
Dimethylphthalate
Concen: 10.21 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.02 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	2.9	3.0	4.4#	
164	10.2	8.0	12.0	

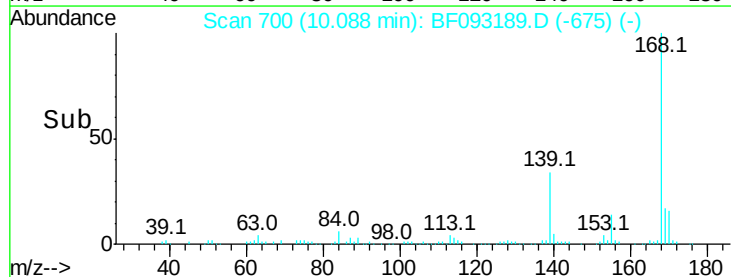
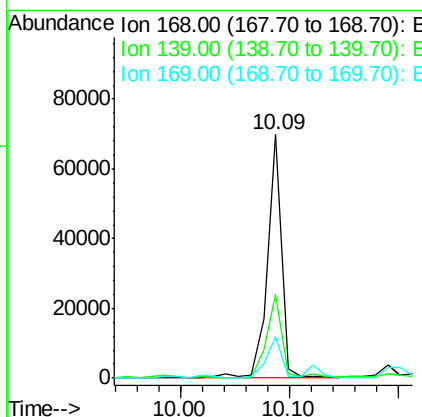
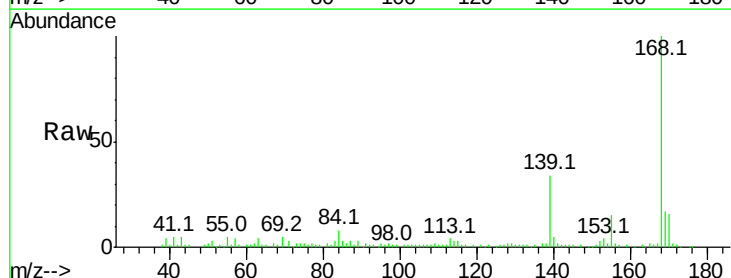
Manual Integrations
APPROVED

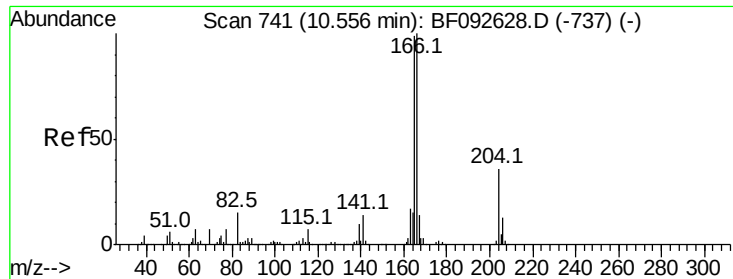
mohammad
2/27/2017 1:08:59 PM



#54
Dibenzofuran
Concen: 3.57 ng
RT: 10.09 min Scan# 700
Delta R.T. -0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
168	100			
139	34.3	32.6	49.0	
169	17.2	11.3	16.9#	





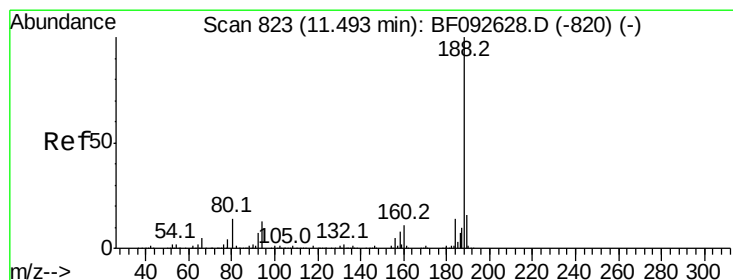
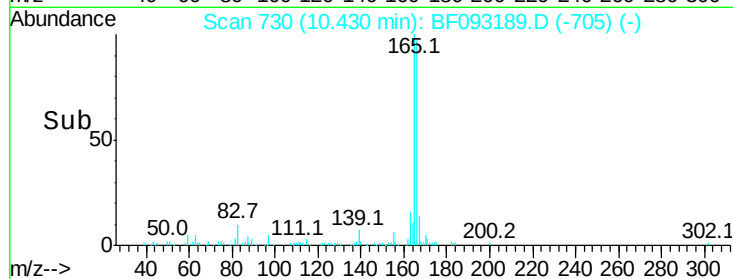
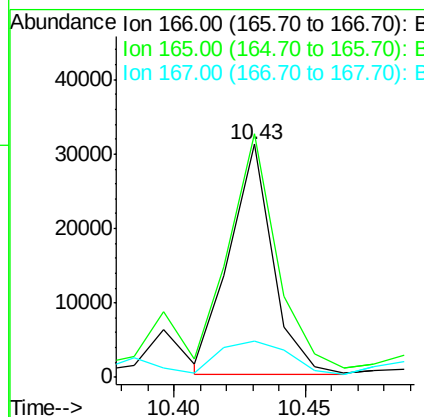
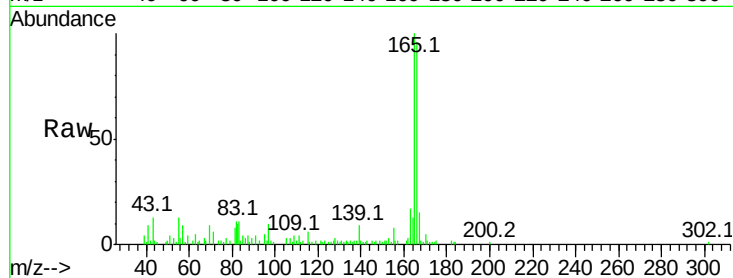
#57
Fluorene
 Concen: 2.55 ng/ml
 RT: 10.43 min Scan# 730
 Delta R.T. -0.01 min
 Lab File: BF093189.D
 Acq: 25 Feb 2017 13:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-1

Tot Ion	Ratio	Lower	Upper
166	100		
165	104.6	77.8	116.8
167	15.5	10.8	16.2

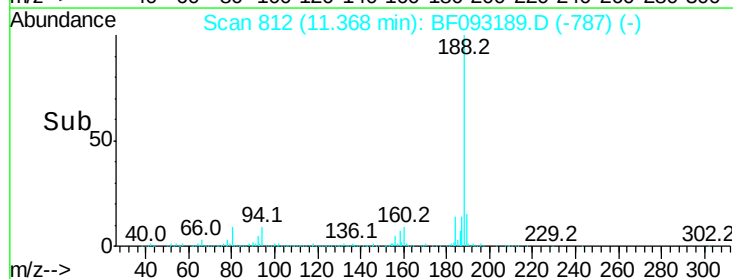
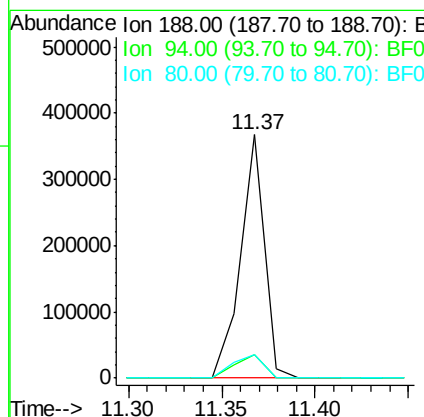
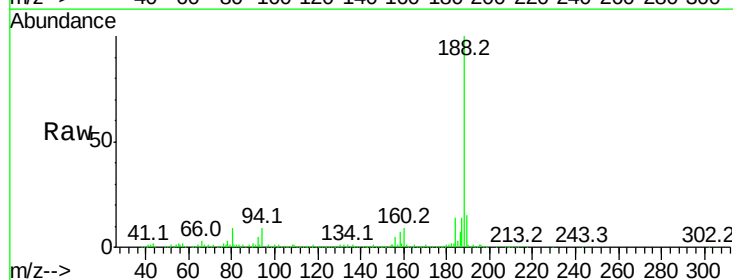
Manual Integrations
APPROVED

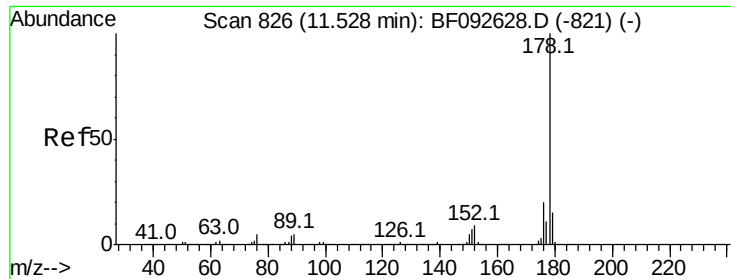
mohammad
 2/27/2017 1:08:59 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 812
 Delta R.T. -0.01 min
 Lab File: BF093189.D
 Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.5	10.0	15.0#
80	9.4	11.2	16.8#





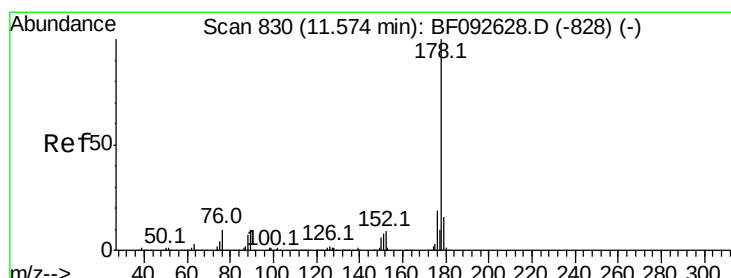
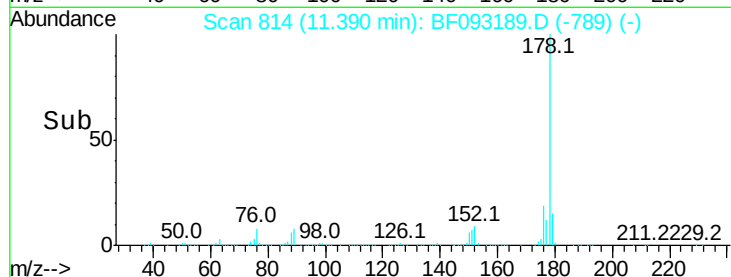
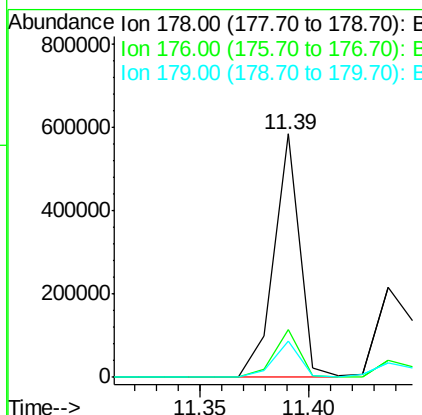
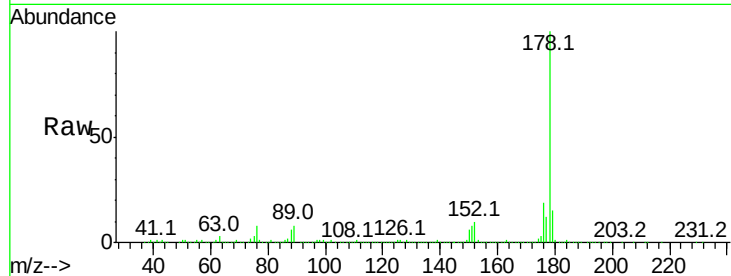
#70
Phenanthrene
Concen: 25.55 ng
RT: 11.39 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.6	25.0
179	15.0	12.8	19.2

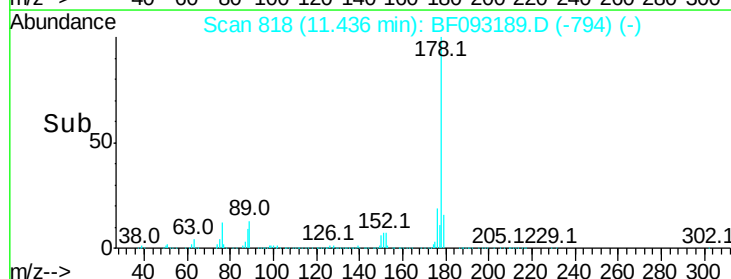
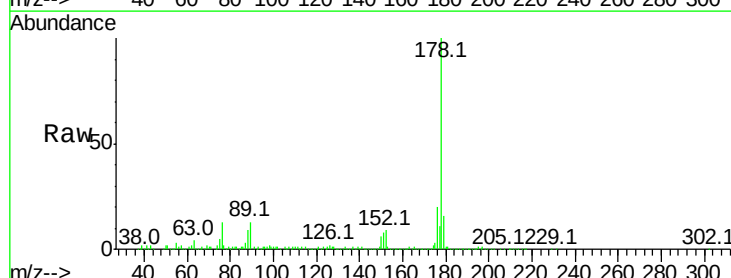
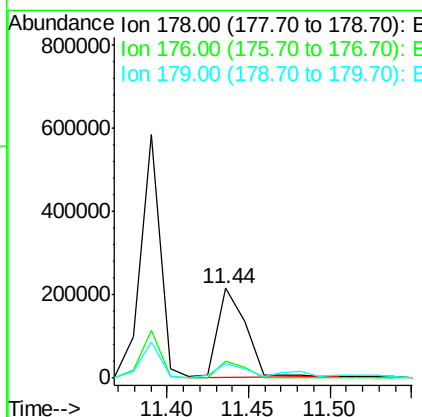
Manual Integrations
APPROVED

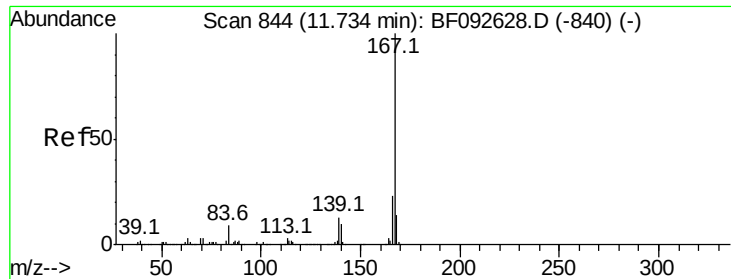
mohammad
2/27/2017 1:08:59 PM



#71
Anthracene
Concen: 13.31 ng
RT: 11.44 min Scan# 818
Delta R.T. -0.02 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	16.1	13.2	19.8





#72

Carbazole

Concen: 3.69 ng

RT: 11.60 min Scan# 832

Delta R.T. -0.01 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

Instrument :

BNA_F

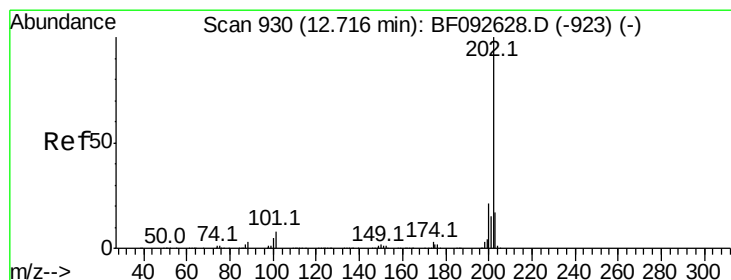
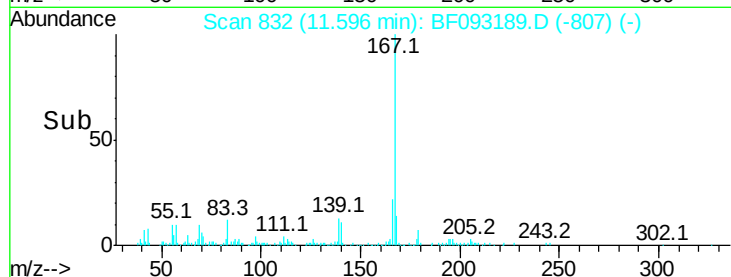
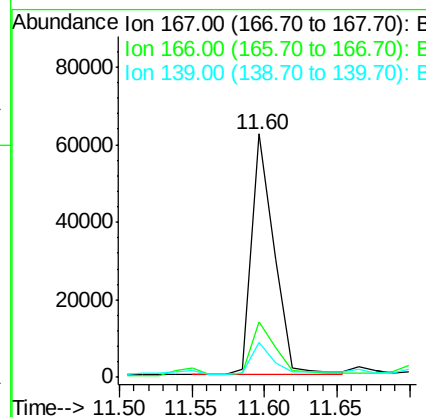
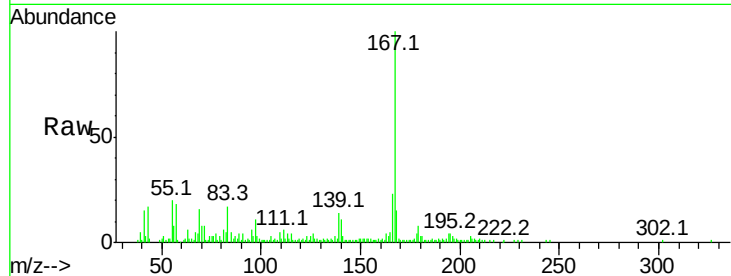
ClientSampleId :

E2-B1-SW-1

Tot Ion:	167	Resp:	67164
Ion Ratio	Lower	Upper	
167	100		
166	22.8	18.2	27.2
139	14.2	11.4	17.2

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:59 PM



#74

Fluoranthene

Concen: 49.32 ng

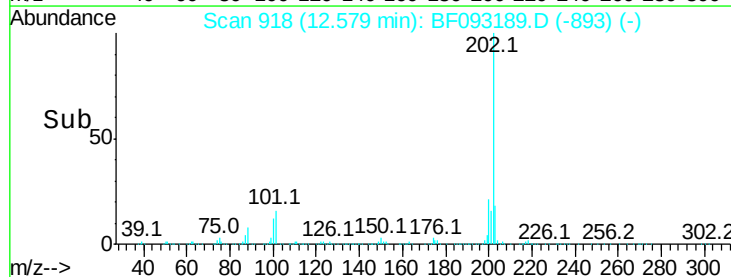
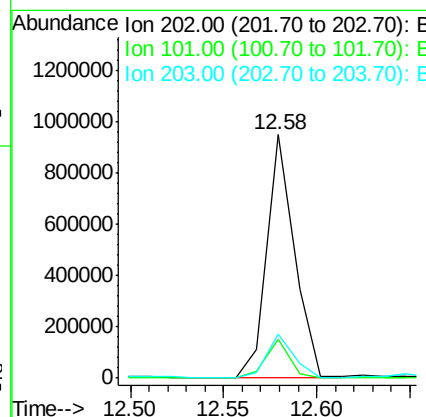
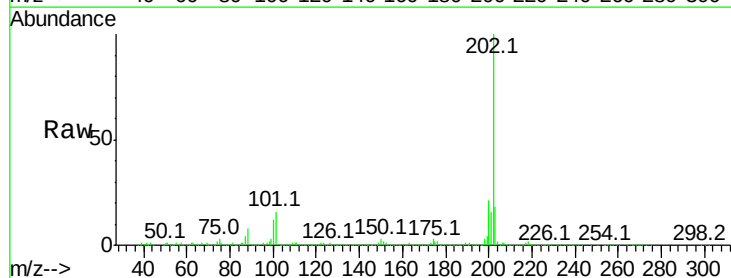
RT: 12.58 min Scan# 918

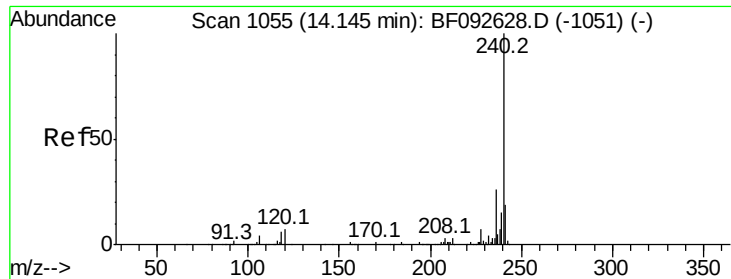
Delta R.T. -0.01 min

Lab File: BF093189.D

Acq: 25 Feb 2017 13:32

Tgt Ion:	202	Resp:	965895
Ion Ratio	Lower	Upper	
202	100		
101	15.8	0.0	34.6
203	18.1	0.0	38.7





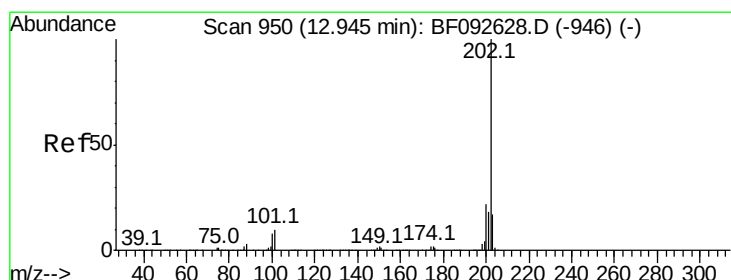
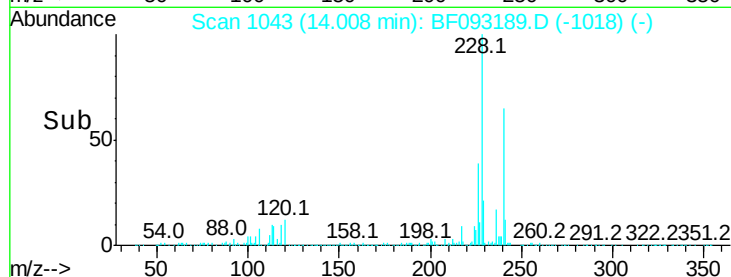
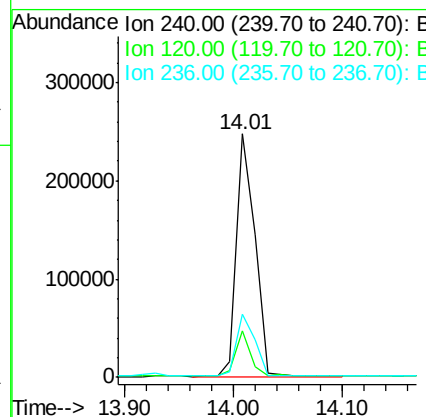
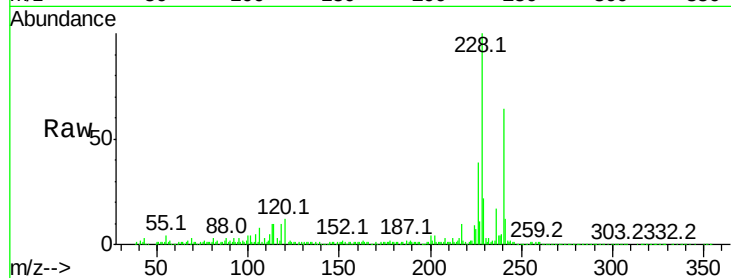
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.01 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF093189.D
 Acq: 25 Feb 2017 13:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-SW-1

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	19.0	12.9	19.3	
236	26.1	20.9	31.3	

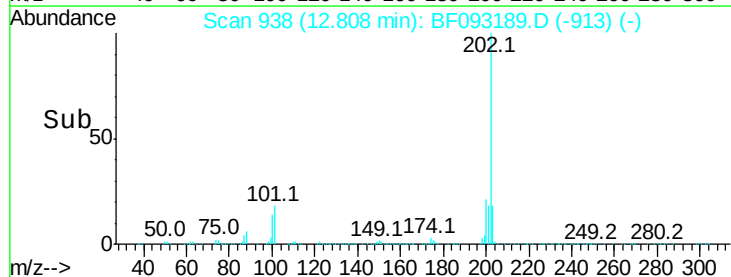
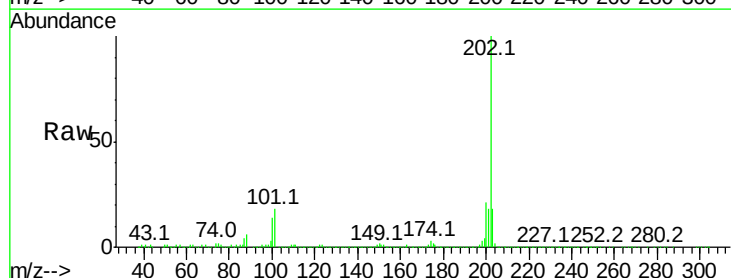
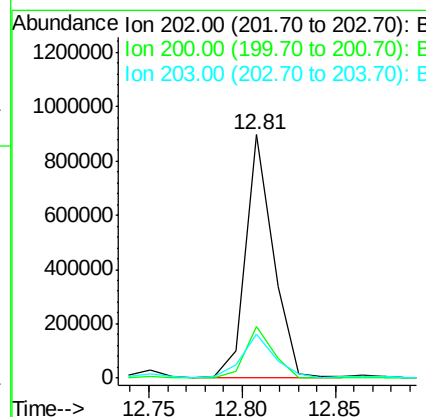
Manual Integrations
 APPROVED

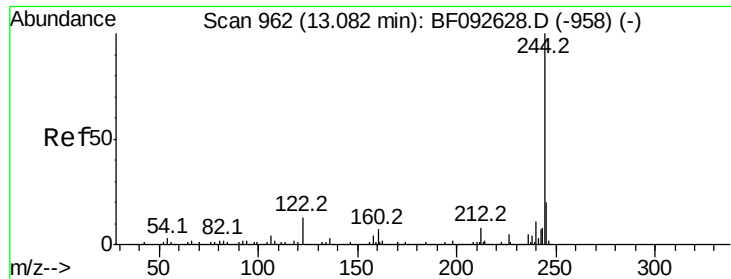
mohammad
 2/27/2017 1:08:59 PM



#77
 Pyrene
 Concen: 43.29 ng
 RT: 12.81 min Scan# 938
 Delta R.T. -0.01 min
 Lab File: BF093189.D
 Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.4	17.7	26.5	
203	18.0	14.7	22.1	





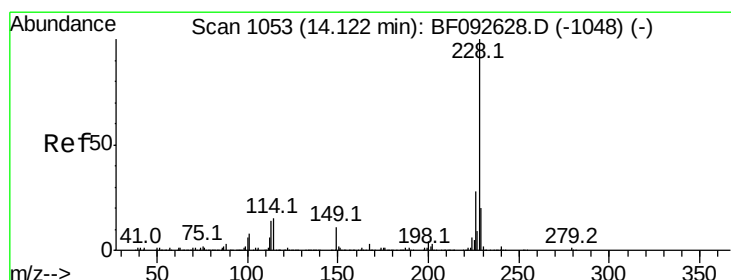
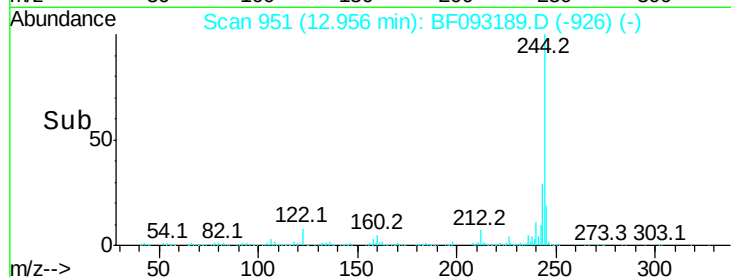
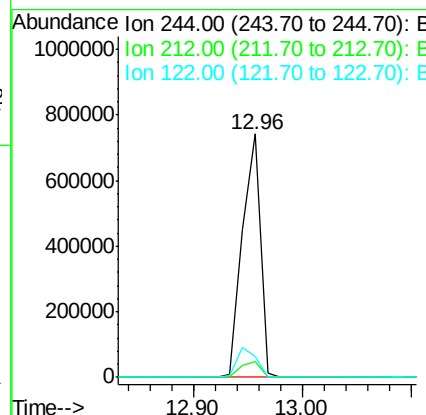
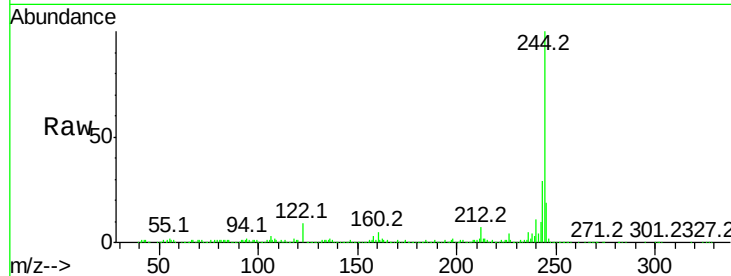
#78
 Terphenyl-d14
 Concen: 69.35 ng
 RT: 12.96 min Scan# 951
 Delta R.T. -0.01 min
 Lab File: BF093189.D
 Acq: 25 Feb 2017 13:32

Instrument :
 BNA_F
 ClientSampled :
 E2-B1-SW-1

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.2	9.2
122	8.6	11.4	17.2

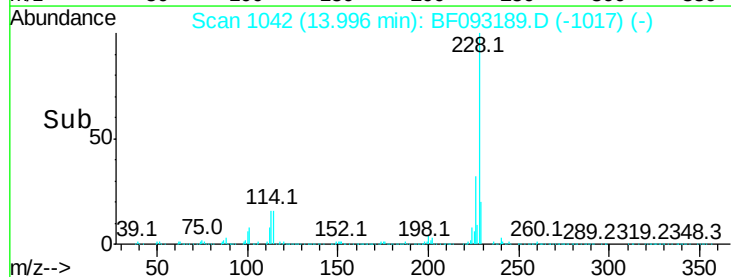
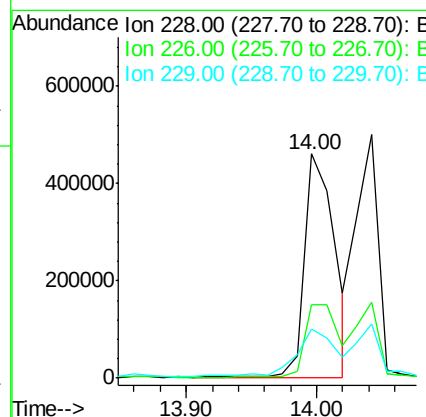
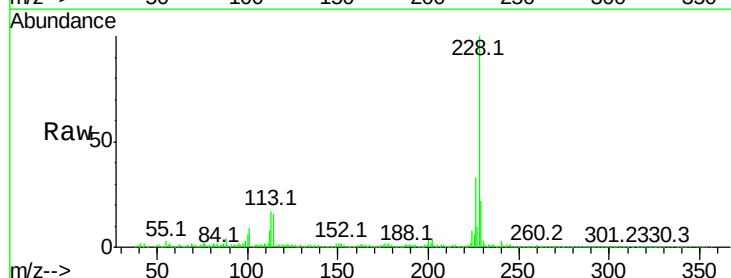
Manual Integrations
 APPROVED

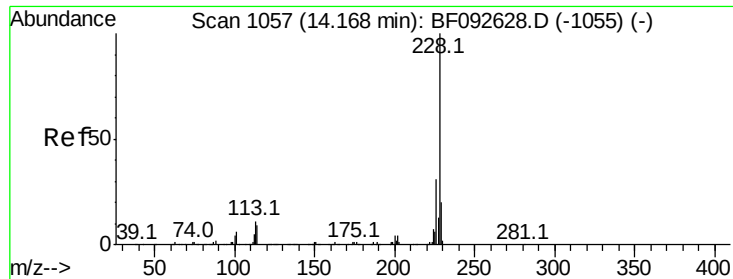
mohammad
 2/27/2017 1:08:59 PM



#80
 Benzo(a)anthracene
 Concen: 42.31 ng
 RT: 14.00 min Scan# 1042
 Delta R.T. -0.01 min
 Lab File: BF093189.D
 Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.5	22.4	33.6
229	21.7	16.2	24.4





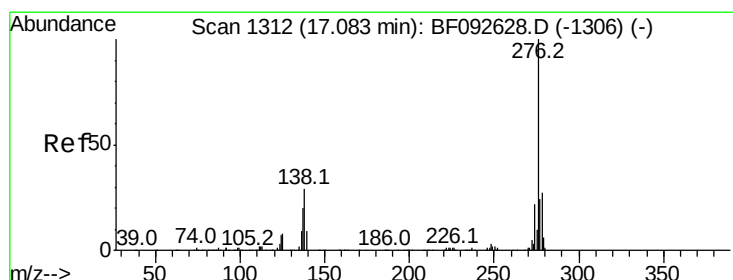
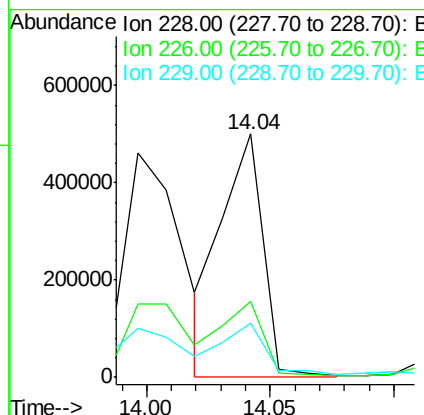
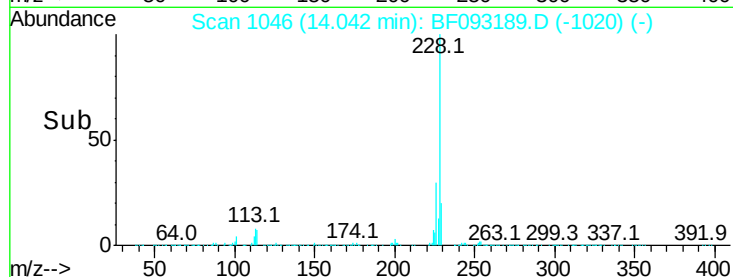
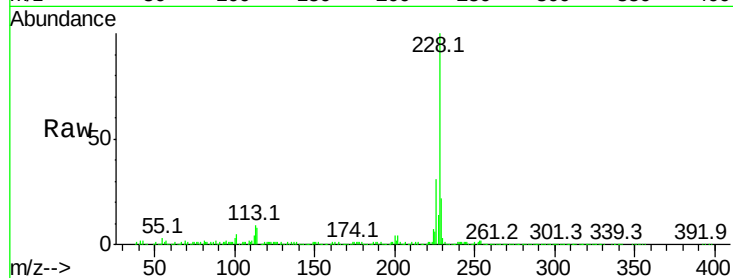
#82
Chrysene
Concen: 36.20 ng/ml
RT: 14.04 min Scan# 1046
Delta R.T. -0.00 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Tot Ion:	228	Resp:	588588
Ion Ratio	Lower	Upper	
228	100		
226	30.9	25.4	38.0
229	22.0	16.2	24.2

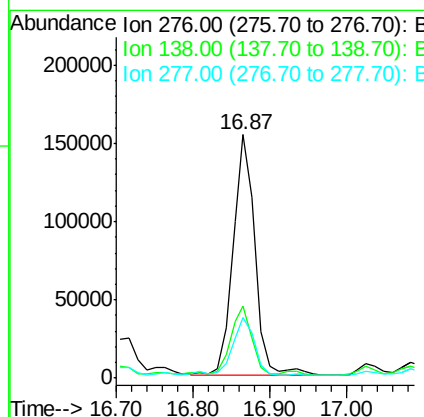
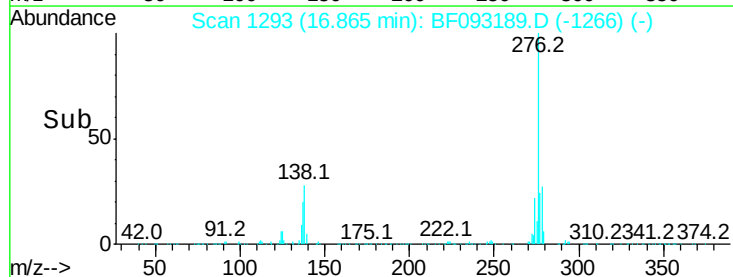
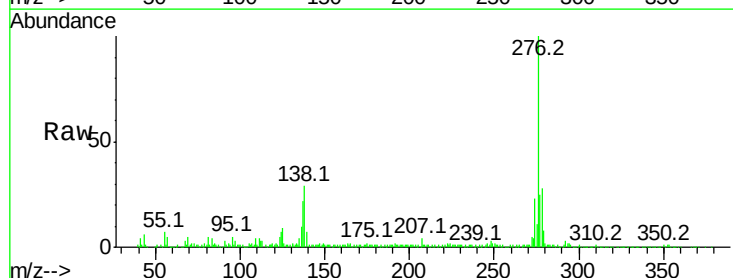
Manual Integrations
APPROVED

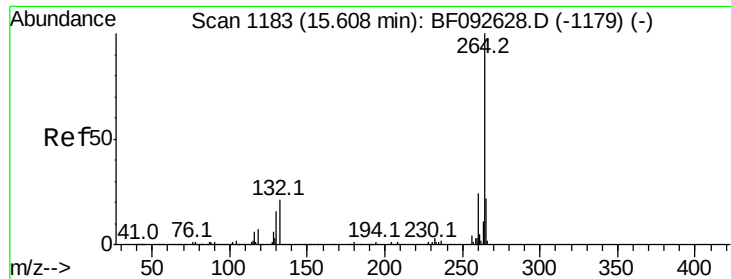
mohammad
2/27/2017 1:08:59 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 24.60 ng/ml
RT: 16.87 min Scan# 1293
Delta R.T. 0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Tgt Ion:	276	Resp:	309780
Ion Ratio	Lower	Upper	
276	100		
138	26.3	21.8	32.6
277	23.8	20.2	30.4





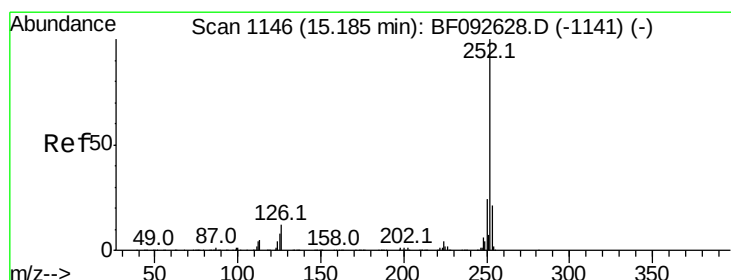
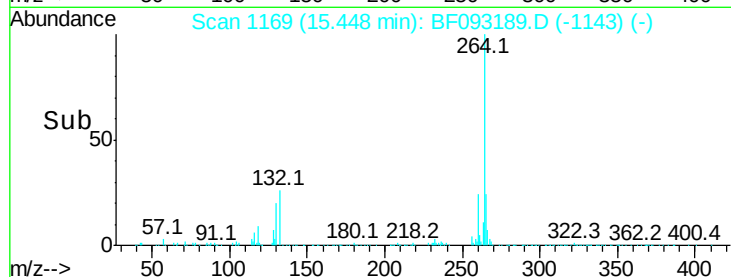
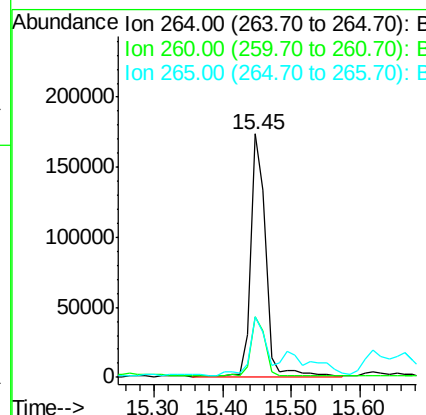
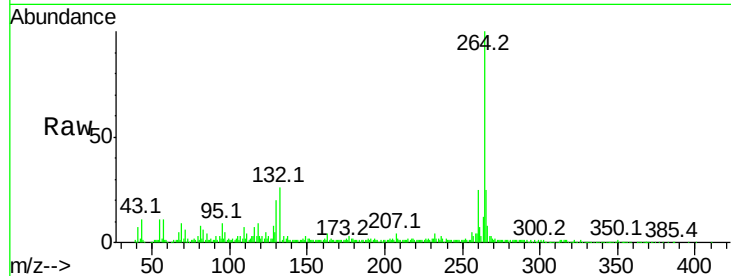
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.45 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	25.1	19.2	28.8	
265	25.1	17.4	26.0	

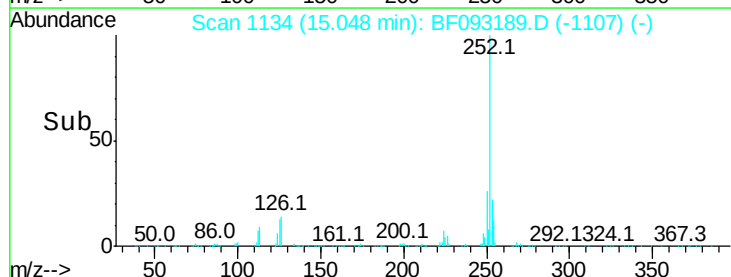
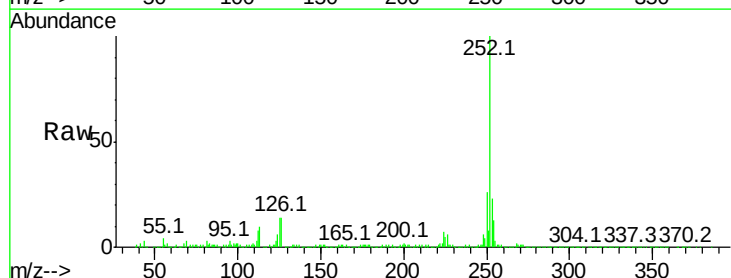
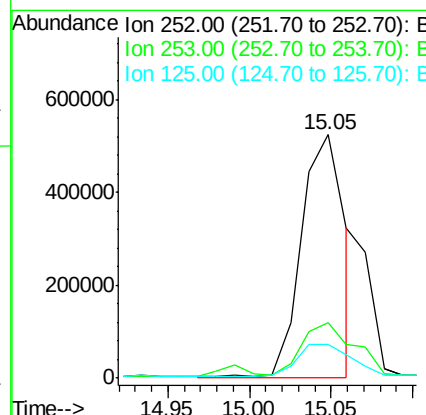
Manual Integrations
APPROVED

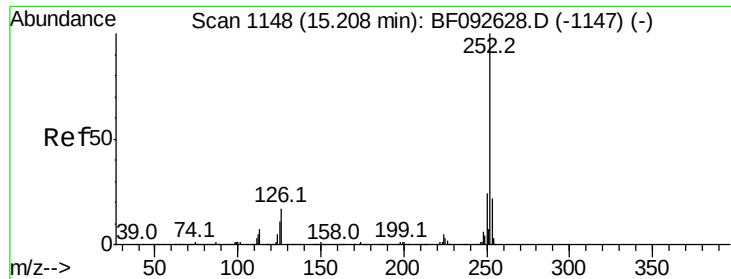
mohammad
2/27/2017 1:08:59 PM



#87
Benzo(b)fluoranthene
Concen: 58.64 ng m
RT: 15.05 min Scan# 1134
Delta R.T. 0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.9	18.2	27.4	
125	13.7	9.8	14.6	





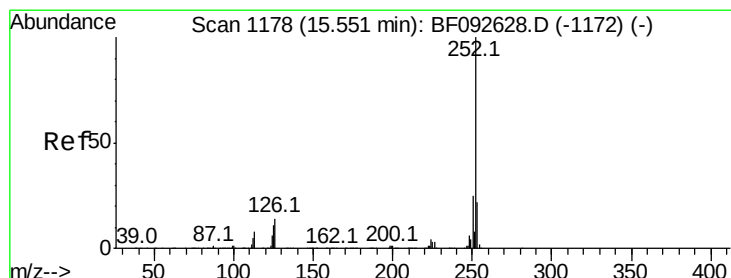
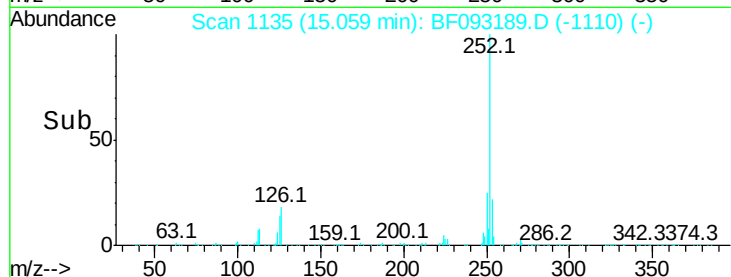
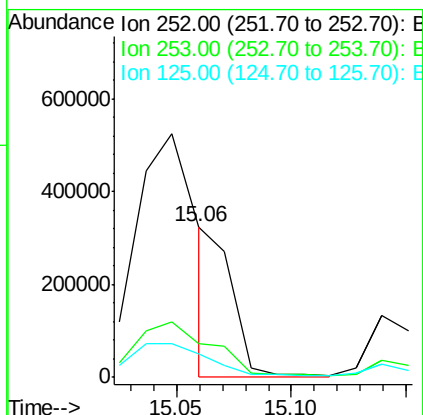
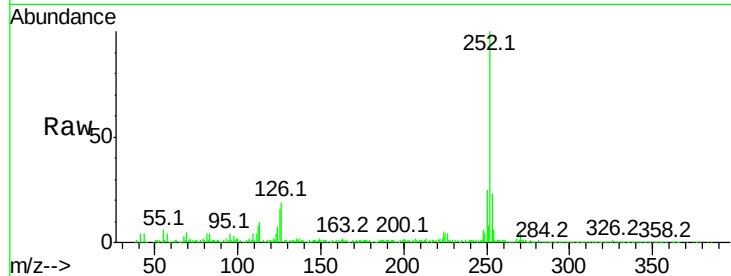
#88
Benzo(k)fluoranthene
Concen: 14.62 ng m
RT: 15.06 min Scan# 1135
Delta R.T. -0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.5	27.7
125	15.8	8.9	13.3

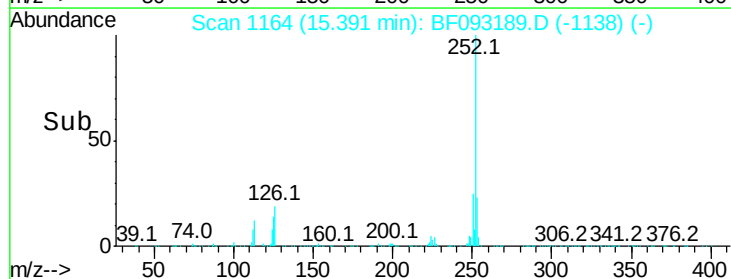
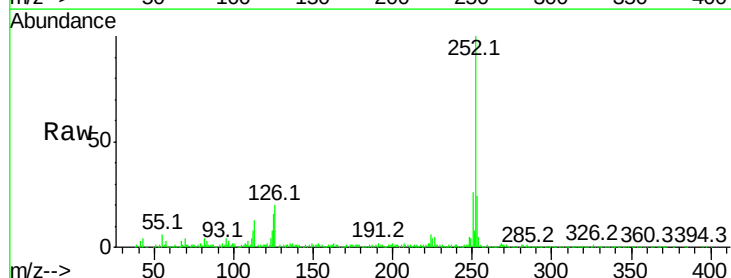
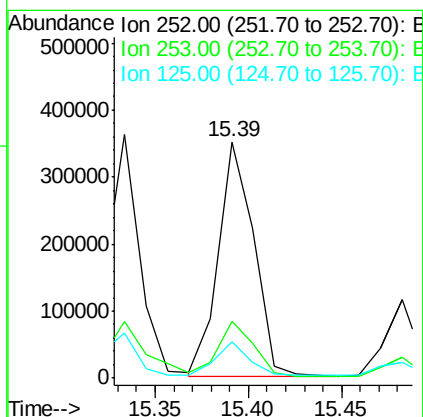
Manual Integrations
APPROVED

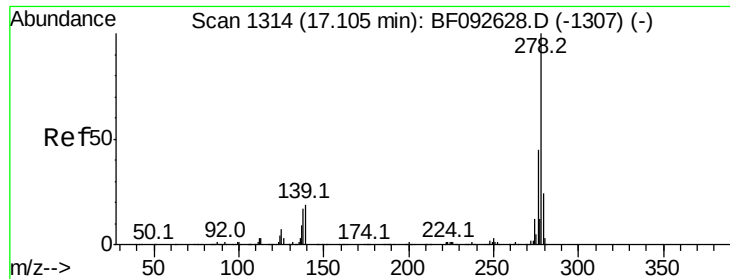
mohammad
2/27/2017 1:08:59 PM



#89
Benzo(a)pyrene
Concen: 32.12 ng
RT: 15.39 min Scan# 1164
Delta R.T. -0.00 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.2
125	15.5	10.0	15.0





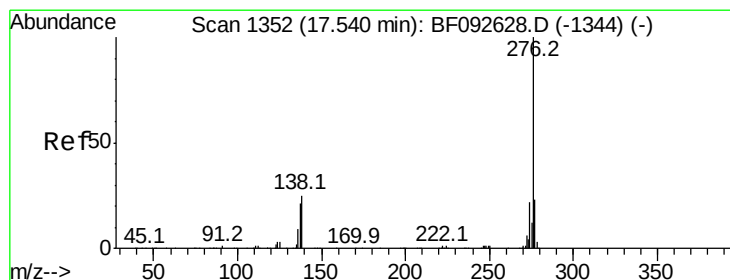
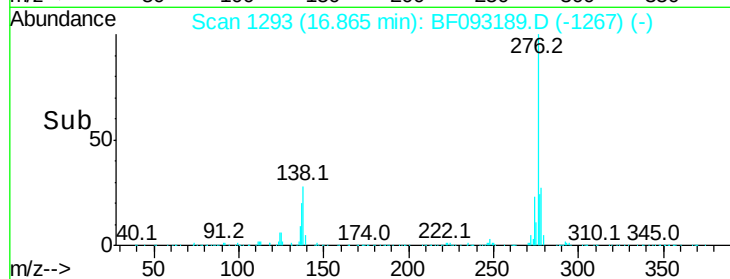
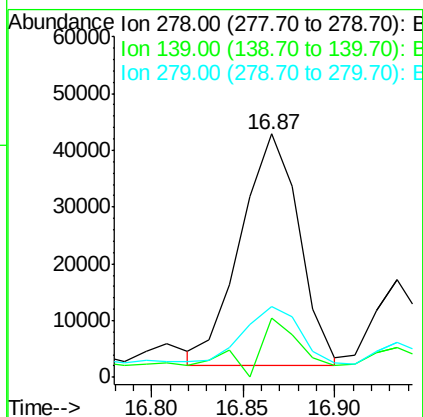
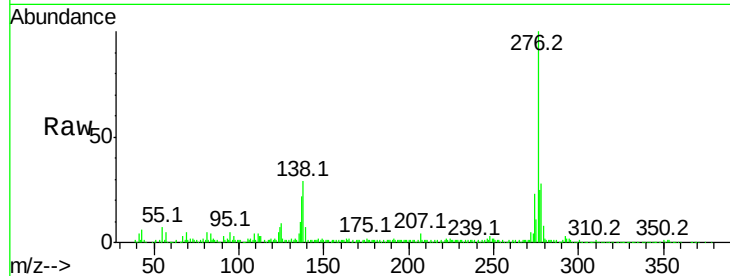
#90
Dibenzo(a,h)anthracene
Concen: 7.68 ng/mL
RT: 16.87 min Scan# 1293
Delta R.T. -0.00 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-B1-SW-1

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.6	14.8	22.2#
279	29.3	19.8	29.6

Manual Integrations
APPROVED

mohammad
2/27/2017 1:08:59 PM



#91
Benzo(g,h,i)perylene
Concen: 21.92 ng/mL
RT: 17.30 min Scan# 1331
Delta R.T. 0.01 min
Lab File: BF093189.D
Acq: 25 Feb 2017 13:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.2	28.8
138	27.6	16.0	24.0#

